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CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, July 4, 11, 18, 25	3, 287, 583, 845
TRADE-MARKS PUBLISHED AND REGISTERED, July 4, 11, 18, 25	11, 301, 591, 857
LABELS AND PRINTS REGISTERED, July 4, 11, 18, 25	44, 334, 623, 891
REISSUES, July 4, 11, 18, 25	47, 337, 627, 893
PLANT PATENTS, July 4, 11, 18, 25	48, —, 628, —
PATENTS, July 4, 11, 18, 25	49, 340, 629, 896
DESIGNS, July 4, 11, 18, 25	256, 553, 819, 1055

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	10, 295, 853
APPLICATIONS—Condition of pending	2, 286, 582, 844
BULLETIN OF DECISIONS—Trade-Marks, Labels, and Prints	854
CLASSIFICATION OF INVENTION—Changes in *Order No. 3479*	295
Order No. 3480	297
DISCLAIMERS—Bakke, Hans A	10
Bergstein, Robert Morris	590
Bremer, Edmund W	10
Case, Nelson P	590
Erben, Henry V	295
Grayes, George De Witt	10
Holland, William W	843
Koeberle, Karl W	590
Lewers, George R	843
Lummerzheim, Herman	295
Macdonald, Walter	843
Mittag, Albert H	295
Morgan, Leo Clark	843
Nellen, Arthur H	10
Raver, Francis M	843
INTERFERENCE NOTICE—Emmerich Pillows Inc	1
INTERNATIONAL CONVENTION FOR THE PROTECTION OF INDUSTRIAL PROPERTY—Adhesion Tangier Zone	581
PATENT SUITS	9, 294, 589, 852
PATENTS—Lists of Adjudicated	1, 285, 581, 843
TRADE-MARK REGISTRATIONS—Notice of Cancellation	1, 285, 581, 843
U. S. COURT OF CUSTOMS AND PATENT APPEALS—Vacation Period June 26	285

TABLE OF CASES REPORTED

	Page
*American Steel and Wire Company of New Jersey, The, *v.* Coe, Com. of Patents	847
*California Prune and Apricot Growers *v.* Dobry Flour Mills; Inc	292
*Electric Storage Battery Company, The, *v.* Genzo Shimadzu and Northeastern Engineering Corporation	4
*Electrical Fittings Corporation, Joselson Sales Corporation, Samuel Joselson and Belle Joselson *v.* The Thomas & Betts Co. and National Electrical Products Corporation	290
*Hogue *v.* Cowling, and Little and Loewenstein; Cowling *v.* Hogue, and Little and Loewenstein; Hogue *v.* Little and Loewenstein, and Cowling; Little and Loewenstein *v.* Cowling and Hogue	583
*Honolulu Oil Corp., Ltd. and M. O. Johnston Oil Field Service Corp. *v.* Erle P. Halliburton and Halliburton Oil Well Cementing Co.; Erle P. Halliburton and Halliburton Oil Well Cementing Co. *v.* Honolulu Oil Corp., Ltd. and M. O. Johnston Oil Field Service Corp	287
*Maytag Company, The, *v.* Hurley Machine Co. and Electric Household Utilities Corporation; Maytag Company, The, *v.* Easy Washing Machine Corporation; General Electric Supply Corporation *v.* The Maytag Company	3
*Toledo Pressed Steel Company, The, *v.* Standard Parts, Inc.; The Toledo Pressed Steel Company *v.* Huebner Supply Company; Montgomery Ward & Company, Inc., *v.* The Toledo Pressed Steel Company	845
*Traders Oil Mill Co. *v.* Lever Brothers Company	291
*Walsko *v.* Smith	848

[Decisions of the United States Court of Appeals of the District of Columbia are indicated by the letter (*); of the United States Court of Customs and Patent Appeals by a star (*); and of the Supreme Court of the United States by the letter (*).]

ERRATA

List of Inventions, page xl, second column, for "Wiper, Self-preparing windshield" read "*Wiper, Self-Parking windshield*", Official Gazette of July 4, 1939.

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LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abrahamsen, Alfred W., doing business as The Hook Scraper Company, Queens Village, N. Y. Cutter blades and scrapers. Serial No. 418,395; July 4. Class 23.

Aibel, Samuel H., New York, N. Y. Veilings. Serial No. 415,870; July 4. Class 42.

Ajax Manufacturing Company, The, Euclid, Ohio. Drop hammers. Serial No. 419,064; July 4. Class 23.

Allen-A Company, The, Bennington, Vt. Sweaters, swim trunks, and swim suits, etc. Serial No. 409,379; July 4. Class 39.

American Lead Pencil Company, Hoboken, N. J. Pencils, pens, erasers, etc. Serial No. 419,249; July 4. Class 37.

American Zinc Company of Tennessee, Mascot, Tenn. Wedge anchored wall standing eyes for tackle. Serial No. 412,750; July 4. Class 13.

Armour and Company, Chicago, Ill. Chemical weed eliminant. Serial No. 419,570; July 4. Class 6.

Atreo Manufacturing Company, New York, N. Y. Dress shields. Serial No. 414,549; July 4. Class 40.

Baden & Foss, Inc., New York, N. Y. Jewelry. Serial No. 418,864; July 4. Class 28.

Barclay, McClelland, New York, N. Y. Perfumes and sets containing powder and perfume. Serial No. 406,955; July 4. Class 6.

Basham, Arthur W., Indianola, Iowa. Handled doughnuts. Serial No. 413,386; July 4. Class 46.

Bell, Grace A., doing business as Gabel Company (Not Inc.), Chicago, Ill. Oil containing preparation. Serial No. 417,860; July 4. Class 6.

Belle Knitting Corp., New York, N. Y. Panties, bloomers, stepins, etc. Serial No. 408,491; July 4. Class 39.

Bertucci, Frank, Malverne, Long Island, N. Y. Automobiles. Serial No. 419,069; July 4. Class 19.

Bio-Tex Distributing Corporation, The, Youngstown, Ohio. Shampoo, hair tonic, and hair dressing preparation. Serial No. 418,914; July 4. Class 6.

Black Hills Manufacturing Corp., Spearfish, S. Dak. Motor block and radiator cement. Serial No. 417,162; July 4. Class 6.

Bludworth, Inc., New York, N. Y. Radio direction finders and accessories therefor. Serial No. 418,512; July 4. Class 26.

Bowden (Engineers) Limited, London, England. Flexible wire cables. Serial No. 413,534; July 4. Class 7.

Bozeman Canning Company, Mount Vernon, Wash. Canned peas. Serial No. 417,795; July 4. Class 46.

Brandecker, August J., doing business as Industrial Mfg. & Engineering Co., Chicago, Ill. Refrigerators and parts thereof. Serial No. 419,745; July 4. Class 31.

British Heat Resisting Glass Company Ltd., The, Birmingham, England. Glass ovenware and fireproof cooking ware. Serial No. 403,440; July 4. Class 33.

Britt, M. C., Produce Company, Winter Garden, Fla. Fresh citrus fruits. Serial No. 413,975; July 4. Class 46.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Billiard table covers. Serial No. 419,251; July 4. Class 50.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Workboards for bars and soda fountains. Serial No. 419,252; July 4. Class 13.

Butane Gas System Company, Dallas, Tex. Incandescent gas distribution units. Serial No. 415,830; July 4. Class 34.

Cadwallader, Harry, Jr., Philadelphia, Pa. Bolts and nuts. Serial No. 400,048; July 4. Class 13.

Carter Products, Inc., New York, N. Y. Lipstick and deodorant. Serial No. 418,092; July 4. Class 6.

Central Igualdad, Inc., Mayaguez, P. R. Sugar. Serial No. 415,763; July 4. Class 46.

Chaffin Optical Company, Inc., Boston, Mass. Optical frames, mountings, lenses, and parts thereof. Serial No. 419,220; July 4. Class 26.

Chappel Bros. Inc., Rockford, Ill. Concentrate of vitamins. Serial No. 419,182; July 4. Class 6.

Coblentz Bag Co., Inc., New York, N. Y. Handbags. Serial No. 419,416; July 4. Class 3.

Cohen, Jos. S., & Sons Co., Inc., New York, N. Y. Dresses and frocks. Serial No. 416,895; July 4. Class 39.

Cohen, Sol A., doing business as Kilhen Co., New York, N. Y. Liquid insecticides. Serial No. 415,379; July 4. Class 6.

Colbert, John A., doing business as Convenience Products Company, Watertown, Mass. Coal and sand. Serial No. 402,846; July 4. Class 1.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Tetra sodium pyrophosphate. Serial No. 418,292; July 4. Class 6.

Concrete Industries Exposition, Inc., Chicago, Ill. Publication. Serial No. 418,431; July 4. Class 38.

Conn, C. G., Ltd., Elkhart, Ind. Tuning bars. Serial No. 419,244; July 4. Class 36.

Continental Carbon Inc., Cleveland, Ohio. Electrical resistors, capacitors, and reactors, or combination of same. Serial No. 418,094; July 4. Class 21.

Convenience Products Company. (See Colbert, John A.)

Cramer, Hannah J., Hammond, Ind. Instruction and game books. Serial No. 417,870; July 4. Class 38.

Crown Luggage Co. (See Neumann, Jacob.)

Dainty Mfg. Co. Inc., New York, N. Y. Ladies' and girls' beach wear. Serial No. 406,093; July 4. Class 39.

Daly Bros. Shoe Co., Inc., Boston, Mass. Men's and boys' shoes. Serial Nos. 418,136–7; July 4. Class 39.

Davies, Rose & Company, Limited, Boston, Mass. Medicinal tablets and powders. Serial No. 419,500; July 4. Class 6.

Diamond Manufacturing Co., Wyoming, Pa. Stamp perforated sheet metal. Serial No. 417,683; July 4. Class 13.

Doho Chemical Corporation, The, New York, N. Y. Granular powder having antipyretic and anesthetic action. Serial No. 418,142; July 4. Class 6.

Eagle Knitting Mills, Inc., Milwaukee, Wis. Caps, bonnets, and hoods. Serial No. 415,111; July 4. Class 39.

Edison, Thomas A., Incorporated, West Orange, N. J. Phonographic apparatus. Serial No. 417,907; July 4. Class 36.

Ehlers, Albert, Inc., Brooklyn, N. Y. Coffee. Serial No. 415,885; July 4. Class 46.

Eisendrath, B. D., Tanning Co., Chicago, Ill. Leather. Serial No. 406,966; July 4. Class 1.

Electrolysis Associates Inc., New York, N. Y. Lotion. Serial No. 417,402; July 4. Class 6.

Ely & Walker Dry Goods Company, St. Louis, Mo. Dresses. Serial No. 398,278; July 4. Class 39.

Emsco Derrick & Equipment Company, Los Angeles, Calif. Crown blocks, steam pumps, traveling blocks, etc. Serial No. 417,368; July 4. Class 23.

Enro Shirt Company, The, Louisville, Ky. Men's dress shirts, pajamas, and sport shirts. Serial No. 418,825; July 4. Class 39.

Eopa Company, The, San Francisco, Calif. Cough and croup syrup. Serial No. 419,505; July 4. Class 6.

Erex Non-Allergic Products Co., St. Louis, Mo. Materials that have been treated to be airproof and waterproof and made into pillow cases, mattress covers, etc. Serial No. 417,607; July 4. Class 42.

Eterna Pen & Pencil Company Inc., New York, N. Y. Fountain pens and mechanical pencils. Serial Nos. 419,335–6; July 4. Class 37.

Fade-O-Scope, Inc., Brooklyn, N. Y. Dissolving apparatus. Serial No. 418,478; July 4. Class 26.

Fenway Coats, Inc., New York, N. Y. Women's and misses' coats. Serial No. 416,061; July 4. Class 39.

Field, Henry, Seed Company, doing business as Henry Field Seed & Nursey Company, Shenandoah, Iowa. Publication. Serial No. 419,257; July 4. Class 38.

Filteray Corporation, New York, N. Y. Sunburn cream. Serial No. 419,371; July 4. Class 6.

Fink-Roselleve Co., Inc., New York, N. Y. Periodical. Serial No. 419,014; July 4. Class 38.

Firmenich & Co., Inc., New York, N. Y. Oils for perfuming purposes, astringents, etc. Serial No. 410,648; July 4. Class 6.

Fishman & Eberhard, New York, N. Y. Dyed fur pelts. Serial No. 419,372; July 4. Class 1.

Foster, Harry K., Dallas, Tex. Shoes, shoe insoles, shoe outer soles, etc. Serial No. 415,769; July 4. Class 39.

Fox, Victor S., New York, N. Y. Publication. Serial No. 416,254; July 4. Class 38.

Friedman, William R., Company, New York, N. Y. Underwear. Serial No. 418,572; July 4. Class 39.

Gabel Company (Not Inc.). (See Bell, Grace A.)

Garay & Co. Inc., New York, N. Y. Ladies' apparel belts. Serial No. 416,448; July 4. Class 39.

General Chemical Company, New York, N. Y. Insecticides. Serial No. 418,195; July 4. Class 6.

General Dyestuff Corporation, New York, N. Y. Dyes and dyestuffs. Serial No. 419,553; July 4. Class 6.

General Electric Company, Schenectady, N. Y. Washing, cleaning, and polishing compounds. Serial No. 415,451; July 4. Class 4.

General Electric Company, Schenectady, N. Y. Washing, cleaning, and polishing compounds. Serial No. 415,453; July 4. Class 4.

General Mills, Inc., Minneapolis, Minn. Cartons or receptacles. Serial No. 415,036; July 4. Class 2.

General Shoe Corporation, Nashville, Tenn. Boots, shoes, and slippers. Serial No. 408,701; July 4. Class 39.

General Shoe Corporation, Nashville, Tenn. Boots, shoes, and slippers. Serial No. 408,703; July 4. Class 39.

George, Nick A., Casper, Wyo. Medicinal preparation. Serial No. 335,797; July 4. Class 6.

Gloria Pickle Company, doing business as Tatz-Stark Pickle Co., Chicago, Ill. Pickles, piccalilli, chow chow, etc. Serial No. 409,032; July 4. Class 46.

Goodman, Cohen & Company, New York, N. Y. Outer shirts. Serial No. 415,646; July 4. Class 39.
Goodman, Harry S., New York, N. Y. Cross word games. Serial No. 405,247; July 4. Class 22.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Resinous material. Serial No. 418,574; July 4. Class 1.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Transparent, colored, or uncolored slightly extensible film, sheet, or strip. Serial No. 419,258; July 4. Class 50.
Graham Paper Company, St. Louis, Mo. Bathroom tissues. Serial No. 419,259; July 4. Class 37.
Greenblatt, Robert R., Omaha, Nebr. Game of questions and answers. Serial No. 417,536; July 4. Class 22.
Griggs, Cooper & Co., St. Paul, Minn. Canned fruits, vegetables, pork and beans, etc. Serial No. 417,964; July 4. Class 46.
Guerrier, Fanny, née Poulain, Paris, France. Preparations used in the treatment of diabetes, albuminuria, rheumatism, etc. Serial No. 406,802; July 4. Class 6.
Gulbert Frères Gloves, Inc., New York, N. Y. Ladies' leather gloves. Serial No. 417,759; July 4. Class 39.
Hall, Horace W., Newton Highlands, Mass. Tennis, squash, and badminton playing rackets. Serial No. 419,758; July 4. Class 22.
Hansen Glove Corporation, Milwaukee, Wis. Gloves. Serial No. 418,924; July 4. Class 39.
Hart, Schaffner & Marx, Chicago, Ill. Suits, coats, overcoats, etc. Serial No. 418,925; July 4. Class 39.
Harvey & Howe, Inc., Chicago, Ill. News column. Serial No. 418,638; July 4. Class 38.
Hook Scraper Company, The. (See Abrahamsen, Alfred W.)
Hotchkiss, E. H., Company, The, Norwalk, Conn. Stapling machines, wire machine staples, and staple strips. Serial No. 419,302; July 4. Class 37.
Howson, Horace, doing business as Sasolax Company, Wichita, Kans. Tonic and eliminant. Serial No. 418,151; July 4. Class 6.
Industrial Mfg. & Engineering Co. (See Brandecker, August J.)
International Union of United Brewery and Soft Drink Workers of America, Cincinnati, Ohio. Beer, ale, stout, and porter. Serial No. 414,743; July 4. Class 48.
International Union of United Brewery and Soft Drink Workers of America, Cincinnati, Ohio. Soft drinks. Serial No. 414,744; July 4. Class 45.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. Serial No. 418,684; July 4. Class 39.
Isrin-Oliver Corporation, New York, N. Y. Coffee. Serial No. 416,289; July 4. Class 46.
Jordeau, Jean, Inc., South Orange, N. J. Deodorants. Serial No. 419,380; July 4. Class 6.
Kayser, Julius, & Co., New York, N. Y. Gloves. Serial No. 418,196; July 4. Class 39.
Keasbey & Mattison Company, Ambler, Pa. Asbestos-composition shingles, slates, tiles, etc. Serial No. 403,695; July 4. Class 12.
Keenan, John E., doing business as J. E. Keenan Candy Co., Kearney, Nebr. Candy. Serial No. 419,020; July 4. Class 46.
Keith, Geo. E., Company, Brockton, Mass. Shoes. Serial No. 418,413; July 4. Class 39.
Klihen Co. (See Cohen, Sol A.)
Kln-Aid Laboratories. (See Nell, Luther A.)
Knott, Wm. T., Company, Inc., New York, N. Y. Women's and children's coats, scarfs, suits, etc. Serial No. 397,132; July 4. Class 39.
Komfo Products Corporation, Allentown, Pa. Mattresses, springs, studio couches, etc. Serial No. 419,670; July 4. Class 32.
Kresge, Sebastian S., doing business as Kresge Department Store, Newark, Newark, N. J. Bias binding tape, braids, buckles and buttons, etc. Serial No. 418,304; July 4. Class 40.
Lamonte, Dorothy, New York, N. Y. Character analysis games. Serial No. 419,026; July 4. Class 22.
Lederle Laboratories, Inc., New York, N. Y. Pharmaceutical preparations. Serial No. 418,349; July 4. Class 6.
Lignocrete Limited, Georgetown, British Guiana. Reinforced concrete and products made therefrom to be used as building material. Serial No. 416,466; July 4. Class 12.
Lignocrete Limited, Georgetown, British Guiana. Cementitious paints. Serial No. 416,467; July 4. Class 16.
Lion Auto Parts and Manufacturing Company, Inc., Chicago, Ill. Piston rings. Serial No. 417,883; July 4. Class 35.
Longdon, F., & Company Limited, Derby, England. Elastic piece goods. Serial No. 404,996; July 4. Class 42.
Lorillard, P., Company, New York, N. Y. Cigarettes and smoking tobacco. Serial No. 418,486; July 4. Class 17.
Los Angeles Nut House, Los Angeles, Calif. Peanut butter. Serial No. 417,581; July 4. Class 46.
Love, Joseph, Inc., New York, N. Y. Children's dresses, skirts, blouses, and coats. Serial No. 418,716; July 4. Class 39.
Macdonald & Muir, Limited, Leith, Scotland. Scotch whiskey. Serial No. 412,036; July 4. Class 49.
Maiden Form Brassiere Company, Inc., New York, N. Y. Brassières, bandeaux, corsets, etc. Serial No. 418,842; July 4. Class 39.
Mantle Lamp Company of America, The, Chicago, Ill. Lamp standards, bowls, shades, etc. Serial No. 416,983; July 4. Class 34.
Mayfair Manufacturing Company, Kansas City, Mo. Pajamas and night gowns. Serial No. 418,350; July 4. Class 39.
McMillen Feed Mills, Inc., Fort Wayne, Ind. Poultry food. Serial No. 413,637; July 4. Class 46.
McNally, Joseph C., Portland, Oreg. Cleaners and detergents. Serial No. 416,013; July 4. Class 4.
Mercoid Corporation, The, Chicago, Ill. Temperature operated electric switches. Serial No. 416,862; July 4. Class 26.
Metropolitan Ice Cream Co., St. Louis, Mo. Ice cream, ices, and similar frozen confections. Serial No. 415,604; July 4. Class 46.
Meutsch, Voigtlander & Co. vormals Gewerkschaft Wallram, Essen-Ruhr, Germany. Drawing and pressing dies, draw plates, mandrils, etc. Serial No. 415,732; July 4. Class 23.
Michel Export Co., Inc., New York, N. Y. Textile softeners and finishing agents. Serial No. 418,112; July 4. Class 6.
Miller & Company, Denver, Colo. Shirts, hats, neckties, etc. Serial No. 417,293; July 4. Class 39.
Miller, William J., doing business as Miller Newspaper Syndicate, Milwaukee, Wis. News feature. Serial No 417,407; July 4. Class 38.
Mittag & Volger, Incorporated, Park Ridge, N. J. Carbon paper, inked ribbons, and inks. Serial No. 418,845; July 4. Class 11.
Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Rugs and carpets. Serial No. 416,573; July 4. Class 42.
Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Rugs and carpets. Serial Nos. 416,576–7; July 4. Class 42.
Moore, C. P., Arvada, Colo. Straight bourbon whiskey. Serial No. 417,028; July 4. Class 49.
Motor City Publishing Company, Detroit, Mich. Publication. Serial No. 419,431; July 4. Class 38.
Murdock Mfg. & Supply Co., The, Cincinnati, Ohio. Fluid control valves. Serial No. 418,647; July 4. Class 13.
Myers, Philip R., New York, N. Y. Whiskey, gin, brandy, etc. Serial Nos. 419,032–5; July 4. Class 49.
NEA Service, Inc., Cleveland, Ohio. Comic drawings. Serial Nos. 419,120–1; July 4. Class 38.
NEA Service, Inc., Cleveland, Ohio. Comic drawings. Serial No. 419,268; July 4. Class 38.
National Merchandise Corporation, Los Angeles, Calif. Fishing hooks, lines, leaders, etc. Serial No. 416,473; July 4. Class 22.
National Silk Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. Serial No. 398,015; July 4. Class 39.
Natural Tred Shoes, Inc., Mount Vernon, N. Y. Shoes, boots, and slippers. Serial No. 414,962; July 4. Class 39.
Nell, Luther A., doing business as Kln-Aid Laboratories, El Paso, Tex. Toothbrushes. Serial No. 419,269; July 4. Class 29.
Nelson Wine & Distilling Company, Inc., Springdale, Ark. Wines. Serial No. 404,447; July 4. Class 47.
Neumann, Jacob, doing business as Crown Luggage Co., Baltimore, Md. Luggage. Serial No. 418,207; July 4. Class 3.
Norwich Pharmacal Company, The, Norwich, N. Y. Laxative. Serial No. 418,261; July 4. Class 6.
Ohio Brass Company, The, Mansfield, Ohio. Inserts for current collectors. Serial No. 419,153; July 4. Class 21.
Østbye, Peter S., Oslo, Norway. Skis. Serial No. 416,814; July 4. Class 22.
Pellegrino, Gustave, doing business as Rumo-Digest Mfg. Co., New York, N. Y. Acid neutralizer preparation. Serial No. 417,624; July 4. Class 6.
Powers Mercantile Company, now, by merger, Powers Dry Goods Co., Incorporated, Minneapolis, Minn. Pure olive oil, vanilla extract. Serial No. 380,713; July 4. Class 46.
Prim-Era Hosiery Mills, Inc., Chester, Pa. Hosiery. Serial No. 418,887; July 4. Class 39.
Pure Oil Company, The, Chicago, Ill. Gasoline and motor fuel oil. Serial No. 389,748; July 4. Class 15.
Purex Products, Incorporated, Baltimore, Md. Mineral oil, cod liver oil, rubbing alcohol, etc. Serial No. 417,387; July 4. Class 6.
Raritan Corporation, The, Perth Amboy, N. J. Rum. Serial No. 419,767; July 4. Class 49.
Rath Packing Company, The, Waterloo, Iowa. Meat loaf. Serial No. 416,871; July 4. Class 46.
Raymor Food Products Co. (See Simons, Philip W.)
Resinous Products & Chemical Company, The, Philadelphia, Pa. Synthetic resinous compounds. Serial No. 419,273; July 4. Class 1.
Richards, Boggs and King, Inc., Chicago, Ill. Hosiery. Serial No. 418,651; July 4. Class 39.
Rogers Imports, Inc., New York, N. Y. Pipes and cigar and cigarette holders. Serial No. 417,099; July 4. Class 8.
Rumo-Digest Mfg. Co. (See Pellegrino, Gustave.)
Saccone, Speed & Jenney, Inc., New York, N. Y. Scotch whisky. Serial No. 419,819; July 4. Class 49.
Sasolax Company. (See Howson, Horace.)
Science Laboratories, Inc., Cincinnati, Ohio. Lighting fixtures. Serial No. 417,979; July 4. Class 21.

Science Laboratories, Inc., Cincinnati, Ohio. Electric light ray apparatus used for sterilization of food products, utensils, instruments, and related items. Serial No. 417,980; July 4. Class 21.
Scott, W. J., Company, Inc., New York, N. Y. Children's dresses and suits. Serial No. 417,589; July 4. Class 39.
Sealtest, Inc., Baltimore, Md., and New York, N. Y. Milk, cream, sour cream, etc. Serial No. 413,688; July 4. Class 46.
Serra, Arthur, and Co., Chicago, Ill. Canned pineapple. Serial No. 415,671; July 4. Class 46.
Serta Associates, Inc., Chicago, Ill. Ribbon wire spring units used within box springs, mattresses, etc. Serial No. 419,001; July 4. Class 32.
Sexton, John, & Co., Chicago, Ill. Cake and pastry flour. Serial No. 418,891; July 4. Class 46.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Products used in diagnosis and/or treatment of various types of protein sensitivity. Serial No. 418,268; July 4. Class 6.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Sedative, expectorant, and bronchial medicament. Serial No. 418,269; July 4. Class 6.
Sheffield Company, The, New London, Conn. Tooth paste. Serial No. 419,348; July 4. Class 6.
Sherwin-Williams Co., The, Cleveland, Ohio. Oils used in the manufacture of paints, varnish, lacquers, etc. Serial No. 419,161; July 4. Class 6.
Shulton, Inc., New York, N. Y. Saponaceous compounds, shaving cream, shaving sticks, etc. Serial Nos. 418,535–42; July 4. Class 4.
Shulton, Inc., New York, N. Y. Saponaceous compounds, shaving creams, soap powder, etc. Serial No. 418,544; July 4. Class 4.
Shulton, Inc., New York, N. Y. Saponaceous compounds, shaving cream, soap powder, etc. Serial Nos. 419,096–8; July 4. Class 4.
Simons, Philip W., doing business as Raymor Food Products Co., Chicago, Ill. Supplemental foods. Serial No. 410,271; July 4. Class 6.
Skinner Chuck Company, The, New Britain, Conn. Piston rings. Serial No. 419,689; July 4. Class 35.
Societe Anonyme les Parfumeries de Gabilla, Paris, France. Perfumes, toilet water, rouge, etc. Serial No. 419,737; July 4. Class 6.
Speare Glove Company, Gloversville, N. Y. Leather gloves. Serial No. 414,902; July 4. Class 39.
Special Foods, Inc., Worthington, Ohio. Canned broth. Serial No. 418,371; July 4. Class 46.
Standard Oil Company of New Jersey, Wilmington, Del. Liquid gloss and floor dressing, paints, paint enamels, and primers. Serial No. 413,366; July 4. Class 16.
Standard Pressed Steel Co., Jenkintown, Pa. Set screws. Serial No. 419,350; July 4. Class 13.
Studio Publications, Inc., The, New York, N. Y. Magazines. Serial No. 393,622; July 4. Class 38.
Stylepark Hats, Inc., Camden, N. J. Hats. Serial No. 418,899; July 4. Class 39.
Sussberg & Feinberg, Inc., New York, N. Y. Lingerie. Serial No. 418,856; July 4. Class 39.
Tatz-Stark Pickle Co. (See Gloria Pickle Company.)
Touraine Company, Inc., New York, N. Y. Girls' sportswear. Serial No. 413,691; July 4. Class 39.
Tracey, John J., Company, Chicago, Ill. Eau de cologne, bath oils, bath salts, etc. Serial No. 418,175; July 4. Class 6.
Tudor Metal Products Corp., New York, N. Y. Educational toy. Serial No. 417,722; July 4. Class 22.
Universal Camera Corporation, New York, N. Y. Cameras. Serial No. 419,214; July 4. Class 26.
Violette, Inc., Virginia, Minn. Tooth brushes. Serial No. 418,955; July 4. Class 29.
Weinberg Corporation, Chicago, Ill. Men's suits, overcoats, and topcoats. Serial No. 418,996; July 4. Class 39.
Wels, Henry, Manufacturing Company, Inc., Elkhart, Ind. Shower bath cabinets. Serial No. 419,358; July 4. Class 13.
Wells, Chas. E., Music Company, The, Denver, Colo. Trombone, clarinet, trumpet, etc. Serial No. 405,232; July 4. Class 36.
Westmoreland, Bascom B., doing business as Westmoreland Manufacturing Company, Houston, Tex. Vehicle tops. Serial No. 418,799; July 4. Class 19.
Wood Reproducers Corporation, Detroit, Mich. Laminated panels. Serial Nos. 419,052–3; July 4. Class 32.
Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Impregnated fabric in form for the application of medicaments. Serial Nos. 418,665–6; July 4. Class 44.

LIST OF REGISTRANTS OF TRADE-MARKS

Acrotorque Drive and Power Company, The, New Haven, Conn. Transmissions and valves for fluid control. 368,861; July 4; Serial No. 414,253; published Apr. 25, 1939. Class 23.
Adler, Louis, Hillcrest, Spring Valley, N. Y. Air sterilizing apparatus. 368,833; July 4; Serial No. 411,670; published Apr. 25, 1939. Class 23.
Aluminum Goods Mfg. Co., Manitowoc, Wis. Base metal coffee percolators. 368,844; July 4; Serial No. 412,689; published Apr. 18, 1939. Class 13.
Amalgamated Leather Companies Inc., Wilmington, Del. Leather. 368,939; July 4. Class 1.
American Can Company, New York, N. Y. Sheet metal ornamented with a decorative coating. 127,174; renewed Oct. 21, 1939.
American Stove Company, St. Louis, Mo. Gas ranges, gas heated broilers, bake ovens, etc. 368,905; July 4; Serial No. 416,279; published Apr. 25, 1939. Class 34.
Anaconda Copper Mining Company, Anaconda, Mont., and New York, N. Y. Treble superphosphate and phosphate. 368,824; July 4; Serial No. 402,705; published Apr. 25, 1939. Class 10.
Anthracite Industries, Inc., New York, N. Y. Boilers, mechanical stokers, furnaces, etc. 368,839; July 4; Serial No. 412,246; published Apr. 25, 1939. Class 34.
Arbeka Webbing Company, Boston, Mass., assignor to Arbeka Webbing Company, Pawtucket, R. I. Fancy goods, furnishings, and notions. 125,382; renewed May 20, 1939.
Arden Farms, Inc., Los Angeles, Calif. Dairy products. 368,816; July 4; Serial No. 391,604; published Feb. 1, 1938. Class 46.
Ascher, Leopold, Co., Inc., New York, N. Y. Brushes. 368,958; July 4. Class 29.
Atlantic-Pacific Mfg. Corp., New York, N. Y. Life floats, ring buoys, sea anchors, etc. 368,831; July 4; Serial No. 410,447; published Apr. 25, 1939. Class 19.
Autovent Fan & Blower Co. (See Batterman Truitt Company.)
Awful Fresh MacFarlane, Berkeley, Calif. Salted nuts, candy, and chocolate coated nuts. 368,904; July 4; Serial No. 416,241; published Apr. 25, 1939. Class 46.
Ball, Charles W., Seattle, Wash. Dry ice refrigerators. 368,935; July 4; Serial No. 417,160; published Apr. 25, 1939. Class 31.
Bama Pie Company. (See Marshall, Henry C.)
Bardstown Distillery, Inc., Bardstown, Ky. Whiskey. 368,876; July 4; Serial No. 415,439; published Apr. 25, 1939. Class 49.
Barq's Root Beer Company, Biloxi, Miss. Beverages, and sirups, extracts, and flavors used in making the same. 368,911–12; July 4; Serial Nos. 416,363–4; published Apr. 25, 1939. Class 45.
Bartmann & Bixer Inc., New York, N. Y. Window curtains. 368,926; July 4; Serial No. 416,597; published Apr. 25, 1939. Class 42.
Batterman Truitt Company, by change of name to Autovent Fan & Blower Co., Chicago, Ill. Fans, motors, and blowers. 125,608; renewed June 3, 1939.
Bear Creek Orchards, also doing business as Rosenberg Bros., Medford, Oreg. Canned fruits. 368,898; July 4; Serial No. 416,176; published Apr. 25, 1939. Class 46.
Bellas, Joseph E., doing business as The Collins Clinic, Peoria, Ill. Surgical sutures. 368,862; July 4; Serial No. 414,334; published Apr. 25, 1939. Class 44.
Beltx Corporation, St. Louis, Mo. Sanitary belts. 368,880; July 4; Serial No. 415,533; published Apr. 25, 1939. Class 44.
Birdsey Flour Mills, Macon, Ga. Wheat flour and coffee. 368,872; July 4; Serial No. 414,981; published Apr. 25, 1939. Class 46.
Blair Distilling Company, St. Francis, Ky. Whiskey. 368,947; July 4. Class 49.
Callis and Hammond, Inc., Baltimore, Md. Wine. 368,956; July 4. Class 47.
Celanese Corporation of America, New York, N. Y. Piece goods. 368,913–14; July 4; Serial Nos. 416,368–9; published Apr. 25, 1939. Class 42.
Cherry-Burrell Corporation, Chicago, Ill. Liquid heat exchangers. 368,847; July 4; Serial No. 412,943; published Apr. 25, 1939. Class 23.
Clark, Otis V., Bowling Green, Ky. Beverages, and sirups and extracts for making the same. 368,927; July 4; Serial No. 416,601; published Apr. 25, 1939. Class 45.
Collins Clinic, The. (See Bellas, Joseph E.)
Colorado Potato Growers Exchange, Denver, Colo. Potatoes. 368,921; July 4; Serial No. 416,455; published Apr. 25, 1939. Class 46.
Columbia Mills, Inc., The, New York, N. Y. Mounted shades, window shades, and shade rollers. 368,934; July 4; Serial No. 416,999; published Apr. 25, 1939. Class 32.
Columbia Protektosite Co., Inc., Carlstadt, N. J. Sun glasses. 368,897; July 4; Serial No. 416,135; published Apr. 25, 1939. Class 26.
Comfo-Nille Co. (See Maish, Clifford W.)
Commander Mill Co., assignor, by mesne assignments, to Commander-Larrabee Milling Company, Minneapolis, Minn. Wheat-flour. 127,269; renewed Nov. 4, 1939.

Con-Ferro Paint & Varnish Company, doing business as Evn-Cote Paint Co., St. Louis, Mo. Varnish stains and paint enamels. 368,842; July 4; Serial No. 412,498; published Apr. 25, 1939. Class 16.
Conn, C. G., Ltd., Elkhart, Ind. Accordions. 368,948; July 4. Class 36.
Continental Optical Company, Inc., Indianapolis, Ind. Ophthalmic blanks and lenses. 368,916; July 4; Serial No. 416,403; published Apr. 25, 1939. Class 26.
Cotton Products Company, Inc., doing business as Opelousas Oil Refinery and also as Opelousa Oil Mill, Opelousas, La. Cottonseed salad oil, cookery oil, and shortening. 368,868; July 4; Serial No. 414,862; published Apr. 25, 1939. Class 46.
Country Club Soda Company, Incorporated, Springfield, Mass. Birch-beer, root-beer, lemon-soda, etc. 126,831; renewed Oct. 7, 1939.
Deerwester, Harry J., Sr., doing business as No-Mek Pen Co., Chicago, Ill. Pens. 368,890; July 4; Serial No. 416,048; published Apr. 25, 1939. Class 37.
Dent-A-Firm Laboratories, Inc., Chicago, Ill. Cleaner for dental plates. 368,885; July 4; Serial No. 415,583; published Apr. 25, 1939. Class 4.
Destilleria Serralles, Inc., Ponce, P. R. Rum. 368,874; July 4; Serial No. 415,286; published Mar. 28, 1939. Class 49.
Detroit Sulphite Pulp & Paper Co., Detroit, Mich. Manifold paper. 368,908; July 4; Serial No. 416,318; published Apr. 25, 1939. Class 37.
Dextro Products, Inc., Terre Haute, Ind. Dextrinized cereal grains. 368,829; July 4; Serial No. 408,943; published Apr. 25, 1939. Class 46.
Diversey Corporation, The, Chicago, Ill. Cleanser. 368,924–5; July 4; Serial Nos. 416,550–1; published Apr. 25, 1939. Class 4.
Drink-Mor Beverage Company. (See Rothstein, Matthias.)
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Brushes. 368,902; July 4; Serial No. 416,231; published Apr. 25, 1939. Class 29.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Clocks. 368,903; July 4; Serial No. 416,232; published Apr. 25, 1939. Class 27.
Eaton Paper Corporation, Pittsfield, Mass. Typewriter paper. 368,891–3; July 4; Serial Nos. 416,051–3; published Apr. 25, 1939. Class 37.
Eclipse Counterbore Company, Detroit, Mich. Metal boring machine tools. 368,853; July 4; Serial No. 413,704; published Apr. 25, 1939. Class 23.
Edwood Company, The. (See Haselwood, Willis E.)
Ehlers, Albert, Inc., Brooklyn, N. Y. Tea. 368,889; July 4; Serial No. 415,883; published Apr. 25, 1939. Class 46.
Ehlers, Albert, Inc., Brooklyn, N. Y. Coffee. 368,895; July 4; Serial No. 416,094; published Apr. 25, 1939. Class 46.
Engineering and Research Corporation, Riverdale, Md. Machinery. 368,877; July 4; Serial No. 415,445; published Apr. 25, 1939. Class 23.
Evans, David G., Coffee Company. (See Meyer Bros. Coffee and Spice Co., assignor.)
Everson Manufacturing Company, Chicago, Ill. Chlorine and/or ammonia metering, feeding, and absorbing apparatus. 368,867; July 4; Serial No. 414,627; published Apr. 25, 1939. Class 23.
Evn-Cote Paint Co. (See Con-Ferro Paint & Varnish Company.)
Fargo Food Products Co., by change of name to Fargo Food & Equipment Co., Fargo, N. Dak. Foods. 125,567; renewed May 27, 1939.
Fennessy, John J., Scarsdale, N. Y. Game. 368,841; July 4; Serial No. 412,411; published Apr. 25, 1939. Class 22.
Filtermass Manufacturing Co., Inc., Long Island City, N. Y. Filter material. 368,936; July 4; Serial No. 417,167; published Apr. 25, 1939. Class 31.
Fitzgibbons Boiler Company, Inc., New York, N. Y. Hot water coils for boilers. 368,954; July 4. Class 34.
Folmer Graflex Corporation, The, Rochester, N. Y. Cameras. 368,960; July 4. Class 26.
Foote & Jenks, Inc., Jackson, Mich. Beverage, and sirup and extract for making the same. 368,881; July 4; Serial No. 415,544; published Apr. 25, 1939. Class 45.
Foote & Jenks, Inc., Jackson, Mich. Beverage, and sirup and extract for making the same. 368,882–3; July 4; Serial Nos. 415,547–8; published Apr. 25, 1939. Class 45.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 368,860; July 4; Serial No. 414,146; published Apr. 25, 1939. Class 42.
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 368,931; July 4; Serial No. 416,687; published Apr. 25, 1939. Class 42.
Gargalo, João da Cruz, doing business as João C. Gargalo, Setubal, Portugal. Preserved fish. 368,854; July 4; Serial No. 413,857; published Apr. 25, 1939. Class 46.
General Motors Corporation, Detroit, Mich. Bicycle speedometers. 368,915; July 4; Serial No. 416,373; published Apr. 25, 1939. Class 26.
Giolitti, A., Sanger, Calif. Fresh grapes. 368,869; July 4; Serial No. 414,874; published Apr. 25, 1939. Class 46.
Glidden Company, The, Cleveland, Ohio. Isolated vegetable protein. 368,826; July 4; Serial No. 405,497; published Apr. 25, 1939. Class 1.
Gottesman and Company, Incorporated, New York, N. Y. Wood pulp. 368,820; July 4; Serial No. 399,962; published Apr. 25, 1939. Class 1.
Grandpa Brands Company, Cincinnati, Ohio. Maltless beverages and for the concentrates thereof. 368,930; July 4; Serial No. 416,632; published Apr. 25, 1939. Class 45.
Greaves, Joe, Townsend, Mont. Whole-wheat cereal. 368,856; July 4; Serial No. 414,029; published Apr. 25, 1939. Class 46.
Gregory, Carey G., doing business as Gregory Fount-O-Ink Company, Los Angeles, Calif. Ink stands and writing desk sets. 368,922; July 4; Serial No. 416,462; published Apr. 25, 1939. Class 37.
Gum Incorporated, Philadelphia, Pa. Chewing gum 368,884; July 4; Serial No. 415,551; published Apr. 25, 1939. Class 46.
Habirshaw Electric Cable Company, Inc., assignor to Phelps Dodge Copper Products Corporation, New York, N. Y. Locomotive-headlight wire. 126,164; renewed July 29, 1939.
Hamilton, Jane W., Chicago, Ill. Preserved cucumbers. 368,923; July 4; Serial No. 416,463; published Apr. 25, 1939. Class 46.
Hamilton Watch Company, Lancaster, Pa. Timing machines, speedometers, tachometers, etc. 368,840; July 4; Serial No. 412,255; published Apr. 25, 1939. Class 26.
Haselwood, Willis E., doing business as The Edwood Company, Elkhart, Ind. Fishing lures. 368,937; July 4; Serial No. 417,280; published Apr. 25, 1939. Class 22.
Heinzerling, Theodore W., doing business as Ruth Elizabeth Apiaries, Queens Village, N. Y. Honey. 368,835; July 4; Serial No. 411,741; published Apr. 18, 1939. Class 46.
Hercules Powder Company, Wilmington, Del. Soaps and soluble pine oils. 368,837; July 4; Serial No. 412,141; published Apr. 25, 1939. Class 4.
Hershberg's, assignor to Hershberg's, Inc., Rochester, N. Y. Pocket and wrist watches. 368,942; July 4. Class 27.
Hershberg's, assignor to Hershberg's, Inc., Rochester, N. Y. Pocket and wrist watches. 368,945; July 4. Class 27.
Hodges Carpet Company, Indian Orchard, Mass. Woven fabrics. 368,917; July 4; Serial No. 416,419; published Apr. 25, 1939. Class 42.
Holmes & Barnes, Ltd., Baton Rouge, La. Wheat-flour. 127,658; renewed Oct. 21, 1939.
Huskey, O. B., doing business as Ignition-Ite Products Co., Los Angeles, Calif. Liquid coating for protecting electrical ignition wires, spark-plugs, etc. 368,865; July 4; Serial No. 414,496; published Apr. 25, 1939. Class 21.
Ignition-Ite Products Co. (See Huskey, O. B.)
India Paint & Lacquer Co., also doing business as India Lacquer Co., Los Angeles, Calif. Paints, paint enamels, shellac, etc. 368,838; July 4; Serial No. 412,143; published Apr. 25, 1939. Class 16.
Ivers-Lee Company, Newark, N. J. Transparent sheet material. 368,899; July 4; Serial No. 416,190; published Apr. 25, 1939. Class 50.
Johnson, Jay, Evanston, Ill. Tails for artificial flies. 368,933; July 4; Serial No. 416,784; published Apr. 25, 1939. Class 22.
Juvenile Shoe Corporation of America, St. Louis, The, to The Juvenile Shoe Corporation of America, Aurora and St. Louis, Mo. Boots, shoes, and sandals. 127,426; renewed Nov. 11, 1939.
Kapp, Gene, New York, N. Y. Pipes, cigar holders, and cigarette holders. 368,918–19; July 4; Serial Nos. 416,425–6; published Apr. 25, 1939. Class 8.
Karsten & Sons, Chicago, Ill. Eggs and dressed poultry. 368,836; July 4; Serial No. 411,997; published Apr. 25, 1939. Class 46.
Kayser, Henry, & Fils, Inc., New York, N. Y. Hair and nail brushes, nail scrubs, etc. 368,959; July 4. Class 29.
Kelley-Clarke Co., Seattle, Wash. Canned fish. 368,894; July 4; Serial No. 416,068; published Apr. 25, 1939. Class 46.
Killian Manufacturing Company, The, Akron, Ohio. Prophylactic rubber articles. 368,946; July 4. Class 44.
Kleinert, I. B., Rubber Company, New York, N. Y. Babypants. 127,565; renewed Nov. 11, 1939.
Knapp-Monarch Company, St. Louis, Mo. Electric curling irons, food mixers, corn poppers, etc. 368,834; July 4; Serial No. 411,697; published Apr. 25, 1939. Class 21.
Knowles, Edwin M., China Company, The, East Liverpool, Ohio, and Newell, W. Va. Ceramic dinnerware. 368,906; July 4; Serial No. 416,293; published Apr. 25, 1939. Class 30.
Kraut, Isadore B., doing business as Mt. Clemens Products Co., New York, N. Y. Mineral water, maltless beverages, and sirups and extracts. 368,928; July 4; Serial No. 416,610; published Apr. 25, 1939. Class 45.
Lapeira, Richard, & Co., Inc., New York, N. Y. Hosiery. 368,941; July 4. Class 39.
Lasher, Phil H., doing business as Western Movie Supply Co., San Francisco, Calif. Photographic apparatus and supplies. 368,823; July 4; Serial No. 401,800; published Apr. 25, 1939. Class 26.
Lawner Martin Corp., New York, N. Y. Games and toys. 368,953; July 4. Class 22.

Le Cliff Distributing Co., Cedar Lake, Ind. Shoe creams, dressing, and polishes. 368,879; July 4; Serial No. 415,517; published Apr. 25, 1939. Class 4.
Load Log Company. (See O'Brien, Byron H.)
Lowe, Joe, Corporation, New York, N. Y. Frozen confections and malt powder for flavoring frozen confections, ice cream, etc. 368,870–1; July 4; Serial Nos. 414,957–8; published Apr. 25, 1939. Class 46.
Lowe, Joe, Corporation, New York, N. Y. Frozen confections and syrups. 368,886; July 4; Serial No. 415,722; published Apr. 25, 1939. Class 46.
Lowe, Joe, Corporation, New York, N. Y. Chocolate and butter-scotch coatings, frozen confections, etc. 368,887; July 4; Serial No. 415,724; published Apr. 25, 1939. Class 46.
Mack, Herbert H., doing business as The Mosby-Mack Equipment Company, Topeka, Kans. Turntables. 368,863; July 4; Serial No. 414,457; published Apr. 25, 1939. Class 23.
Maggi Co., Inc., New York, N. Y. Foods and ingredients of foods. 368,818; July 4; Serial No. 396,141; published Feb. 7, 1939. Class 46.
Maggi Co., Inc., New York, N. Y. Foods and ingredients of foods. 368,819; July 4; Serial No. 396,144; published Feb. 14, 1939. Class 46.
Maggi Co., Inc., New York, N. Y. Foods and ingredients of foods. 368,827; July 4; Serial No. 407,909; published Feb. 28, 1939. Class 46.
Mail-Well Envelope Company, Portland, Oreg. Envelopes. 368,950; July 4. Class 37.
Maish, Clifford W., doing business as Comfo-Nille Co., Cincinnati, Ohio. Article of bedding. 368,849; July 4; Serial No. 413,022; published Apr. 25, 1939. Class 42.
Maple Grove, Inc., St. Johnsbury, Vt. Maple sugar candies. 368,873; July 4; Serial No. 415,006; published Apr. 25, 1939. Class 46.
Marshall, Henry C., doing business as Bama Pie Company, Dallas, Tex. Fried pies. 368,832; July 4; Serial No. 410,655; published Apr. 25, 1939. Class 46.
Mayer, Hattie S., New York, N. Y. Protective rubber covers for sanitary napkins. 368,888; July 4; Serial No. 415,788; published Apr. 25, 1939. Class 44.
McEachen, B. H., doing business as Nola Products Company, Los Angeles, Calif. Pickles, ground sweet pickle relish, chili peppers, etc. 368,943; July 4. Class 46.
McLaurin-Jones Co., Brookfield, Mass. Gummed paper and gummed paper tape. 368,828; July 4; Serial No. 408,322; published Apr. 25, 1939. Class 37.
Merrimack Manufacturing Company, Lowell, Mass. Pile fabrics of cotton. 368,944; July 4. Class 42.
Meyer Bros. Coffee and Spice Co., assignor to David G. Evans Coffee Company, St. Louis, Mo. Teas, mustard, coffee, etc. 127,639; renewed Nov. 18, 1939.
Meyer, Ronald, doing business as Ronald Meyer Popcorn Company, Carnarvon, Iowa. Yellow popcorn in its natural state. 368,907; July 4; Serial No. 416,294; published Apr. 25, 1939. Class 46.
Milhander, Jacob, Los Angeles, Calif. Vapor cure vulcanizing steam chamber and tire building machine. 368,848; July 4; Serial No. 412,980; published Apr. 25, 1939. Class 23.
Miller Manufacturing Company, El Paso, Tex. Blasting cap protectors. 368,957; July 4. Class 9.
Mohawk Carpet Mills, Inc., Amsterdam, N. Y. Rugs and carpets. 368,955; July 4. Class 42.
Monarch Leather Company, Chicago, Ill. Leather. 368,938; July 4. Class 1.
Monarch Oil Company. (See Petroleum Products Co.)
Mosby-Mack Equipment Company, The. (See Mack, Herbert H.)
Mt. Clemens Products Co. (See Kraut, Isadore B.)
Muffet, Mary, Inc., St. Louis, Mo. Piece goods. 368,920; July 4; Serial No. 416,434; published Apr. 25, 1939. Class 42.
Nola Products Company. (See McEachen, B. H.)
No-Mek Pen Co. (See Deerwester, Harry J., Sr.)
Norddeutsche Schleifmittel-Industrie Christiansen & Co., Altona-Lurup, Hamburg, Germany. Silicon carbide, emery cloth, emery paper, etc. 368,822; July 4; Serial No. 401,785; published Feb. 21, 1939. Class 4.
Norwalk Tire & Rubber Company, The, Norwalk, Conn. Inner tubes. 368,951; July 4. Class 35.
O'Brien, Byron H., doing business as Load Log Company, West Springfield, Mass. Record sheets. 368,896; July 4; Serial No. 416,110; published Apr. 25, 1939. Class 37.
Okell, James H., doing business as Okell Rotary Rig Company, Los Angeles, Calif. Well drilling machinery and equipment and their parts. 368,857; July 4; Serial No. 414,079; published Apr. 25, 1939. Class 23.
Olenik, Irwin, New York, N. Y. Lapel buttons, badges, medallions, etc. 368,900; July 4; Serial No. 416,203; published Apr. 25, 1939. Class 50.
Opelousas Oil Refinery. (See Cotton Products Company, Inc.)
Palay, S. T., Textile Corporation, New York, N. Y. Corduroy. 368,830; July 4; Serial No. 410,437; published Apr. 25, 1939. Class 42.
Palmer Corporation, The, Chicago, Ill. Fresh oranges and grapefruit. 368,901; July 4; Serial No. 416,204; published Apr. 25, 1939. Class 46.
Peck, Stow & Wilcox Company, The, Southington, Conn. Axes, hatchets, draw knives, etc. 368,817; July 4; Serial No. 396,004; published Apr. 25, 1939. Class 23.
Pennsylvania Manufacturing Company. (See Politz, Percy.)
Pequot Wire Cloth Co., Inc., South Norwalk, Conn. Wire cloth. 368,855; July 4; Serial No. 413,957; published Apr. 25, 1939. Class 13.
Petroleum Products Co., San Francisco, to Monarch Oil Company, Oakland, Calif., successor. Lubricating-oil and rust preventive. 122,339; renewed July 23, 1938.
Phelps Dodge Copper Products Corporation. (See Habirshaw Electric Cable Company, Inc., assignor.)
Politz, Percy, doing business as Pennsylvania Manufacturing Company, Washington, D. C. Venetian blinds. 368,932; July 4; Serial No. 416,700; published Apr. 25, 1939. Class 32.
Portland Company, The, Portland, Maine. Apparatus for use in cleaning or otherwise treating surfaces of containers, drums, barrels, and the like. 368,852; July 4; Serial No. 413,683; published Apr. 25, 1939. Class 23.
Rosenberg Bros. (See Bear Creek Orchards.)
Rothstein, Matthias, doing business as Drink-Mor Beverage Company, Wilkes-Barre, Pa. Maltless beverage and sirup and extract for making same. 368,929; July 4; Serial No. 416,617; published Apr. 25, 1939. Class 45.
Ruth Elizabeth Apiaries. (See Heinzerling, Theodore W.)
Salem Chemical & Supply Co., Salem, Mass. Glass cleaner. 368,875; July 4; Serial No. 415,353; published Apr. 25, 1939. Class 4.
Sales Research, Incorporated, Cleveland, Ohio. Books of blank forms. 368,866; July 4; Serial No. 414,535; published Apr. 25, 1939. Class 37.
Schwab, S. M., Jr., & Co., New York, N. Y. Cotton piece goods. 368,851; July 4; Serial No. 413,647; published Apr. 25, 1939. Class 42.
Schwarz, H. Spencer, doing business as Wir-Drir, Chicago, Ill. Hosiery drying forms. 368,949; July 4. Class 50.
Schwarz, Louis F., doing business as South Jersey Photo Laboratories, Oaklyn, N. J. Electric switches. 368,850; July 4; Serial No. 413,147; published Apr. 25, 1939. Class 21.
Selsi Company, Inc., New York, N. Y. Opera glasses. 368,909; July 4; Serial No. 416,342; published Apr. 25, 1939. Class 26.
Shott Manufacturing Company, The, Cincinnati, Ohio. Gliding furniture. 368,858; July 4; Serial No. 414,085; published Apr. 25, 1939. Class 32.
Signal Engineering & Mfg. Co., New York, N. Y. Electric signalling apparatus. 368,825; July 4; Serial No. 403,564; published Apr. 25, 1939. Class 21.
Smit, J. K., & Sons, Inc., New York, N. Y. Diamond dressing tools. 368,878; July 4; Serial No. 415,487; published Apr. 25, 1939. Class 23.
South Jersey Photo Laboratories. (See Schwarz, Louis F.)
Stein, S., & Co., New York, N. Y. Woolen goods. 368,910; July 4; Serial No. 416,346; published Apr. 25, 1939. Class 42.
Sun Dodger Company, Los Angeles, Calif. Parasols, beach umbrellas, and beach sun shades. 368,864; July 4; Serial No. 414,473; published Apr. 11, 1939. Class 41.
Tru Test Marketing & Merchandising Corp., Chicago, Ill. Radiator air valves, faucets, shower fixtures, etc. 368,859; July 4; Serial No. 414,125; published Apr. 25, 1939. Class 13.
Universal Motor Oils Company, The, Wichita, Kans. Storage batteries. 368,843; July 4; Serial No. 412,568; published Apr. 25, 1939. Class 21.
Vanadium-Alloys Steel Company, Latrobe, Pa. Steel. 368,952; July 4. Class 14.
Weil, Joe, New York, N. Y. Whisk brooms, rubber brushes, and clothes brushes. 368,845; July 4; Serial No. 412,784; published Apr. 25, 1939. Class 29.
Weltz, S., & Company, Inc., Cleveland, Ohio. Coats. 368,846; July 4; Serial No. 412,837; published Apr. 18, 1939. Class 39.
Western Movie Supply Co. (See Lasher, Phil H.)
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Storage bins in refrigerators. 368,940; July 4. Class 31.
Winter & Co., New York, N. Y. Pianos and organs. 368,821; July 4; Serial No. 401,083; published Apr. 25, 1939. Class 36.
Wir-Drir. (See Schwarz, H. Spencer.)

LIST OF REGISTRANTS OF LABELS

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Assorted Cookies. For Assorted Cookies. 53,208; July 4.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Soya Cocktailettes. For Biscuits. 53,209; July 4.

California and Hawaiian Sugar Refining Corporation, Limited, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. C and H Sugar Cure Cane XXXXXX Confectioners Powdered. For Sugar. 53,210; July 4.

Clayton, A. C., Printing Company, St. Louis, Mo. Fine Footwear. For Footwear. 53,211; July 4.

Comfort Paper Corporation, San Francisco, Calif. Green Tinted Zee Tissue Family-Pak. For Toilet Tissue. 53,212; July 4.

Comfort Paper Corporation, San Francisco, Calif. Orchid Tinted Zee Tissue Family-Pak. For Toilet Tissue. 53,213; July 4.

Davis & Pitman Ltd., Chicago, Ill. Salvus Sutures. For Sutures. 53,214; July 4.

Eastern Brewing Corporation, Waterbury, Conn. Nutmeg State. For Ale. 53,215; July 4.

Eastern Brewing Corporation, Waterbury, Conn. Nutmeg State. For Beer. 53,216; July 4.

Gillespie, Andrew W., Green Bay, Wis. Flash. For a Firefighting Device. 53,217; July 4.

Gumakers of America, Inc., Clifton Heights, Pa. Skippy. For Chewing Gum. 53,218; July 4.

Hefley, Chas., doing business as Chas. Hefley Popcorn Products, Los Angeles, Calif. Colonel Crunch. For Popped Popcorn. 53,219; July 4.

Improved Hair Net Co., New York, N. Y. Slip-O-Net. For Hair Nets. 53,220; July 4.

Interstate Bakeries Corporation, Los Angeles, Calif. Germ-O-Weat. For Bread. 53,221; July 4.

Mead Johnson & Company, Evansville, Ind. Mead's Oleum Percomorphum 50%. For a Blend of the Liver Oils of Percomorph Fishes, Admixed with not More Than 50% Cod Liver Oil, Containing not Less Than 60,000 Vitamin A Units, U. S. P., and not Less Than 8,500 Vitamin D Units, U. S. P., Per Gram. 53,222; July 4.

Mead Johnson & Company, Evansville, Ind. Mead's Standardized Cod Liver Oil. For Cod Liver Oil Containing not Less Than 1,800 Vitamin A Units, U. S. P., and not Less Than 175 Vitamin D Units, U. S. P., Per Gram. 53,223; July 4.

Mead Johnson & Company, Evansville, Ind. Mead's Powdered Protein Milk. For a Homogenized, Spray-Dried Mixture of Whole Milk Curd and Skim Milk Acidified With Lactic Acid. 53,224; July 4.

Mead Johnson & Company, Evansville, Ind. Mead's Powdered Lactic Acid Milk No. 2. For Whole Milk Acidified with Lactic Acid, Homogenized and Spray-Dried. 53,225; July 4.

Mead Johnson & Company, Evansville, Ind. Mead's Powdered Whole Milk. For Powdered Whole Milk. 53,226; July 4.

Mead Johnson & Company, Evansville, Ind. Mead's Powdered Whole Milk with Dextri-Maltose. For a Homogenized, Spray-Dried Mixture of Whole Milk, Maltose and Dextrins. 53,227; July 4.

Kemp, E. F., Inc., Somerville, Mass. Kemp's Old Fashioned Molasses Pop Corn. For Molasses Pop Corn. 53,228; July 4.

Marbridge Printing Company. (See Stroehmann Brothers Company, assignor.)

Parks, T. M., Lompoc, Calif. Dutch Boy. For Fresh Vegetables. 53,229; July 4.

Roddenberry, W. B., Co., Cairo, Ga. Pickle Patch. For Dill Pickles. 53,230; July 4.

Stroehmann Brothers Company, Harrisburg, Pa., assignor to Marbridge Printing Company, Inc., New York, N. Y. Safe-Baked. For Bread. 53,231; July 4.

Taylor, K., Distilling Co., Inc., The, Frankfort, Ky. K. Taylor. For Kentucky Straight Bourbon Whiskey. 53,232; July 4.

University of Tennessee Engineering Experiment Station, Knoxville, Tenn. Tennessee Elberta Peaches Individual Slices Quick Frozen. For Quick Frozen Individual Slices of Elberta Peaches. 53,233; July 4.

Vi-Tl-Mi Products, Greenwich, Conn. Vi-Tl-Mi Brand. For Dog and Cat Food. 53,234; July 4.

Wonder Products Company, Canton, Ohio. Rose-Glo. For a Scientific Toilet Bowl Deodorizer and Cleaner. 53,235; July 4.

LIST OF REGISTRANTS OF PRINTS

General Mills, Inc., Minneapolis, Minn. It's Easy to Bake and Easy to Take! For Flour. 17,469; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Coffee Should be Served With Pride. For Coffee. 17,470; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Tastes Become Keen When Coffee Appears. For Coffee. 17,471; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Does the Coffee You Serve Represent You? For Coffee. 17,472; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Tastes are 'Focused' on Coffee. For Coffee. 17,473; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Coffee is Vulnerable to Every Taste. For Coffee. 17,474; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Coffee Should be the Meal's Bright Spot. For Coffee. 17,475; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Will Your Coffee Stand a Frank Opinion? For Coffee. 17,476; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Every Meal is an 'Exposition' for Coffee. For Coffee. 17,477; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. A Meal is Judged by its Coffee. For Coffee. 17,478; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Is Your Coffee Always at its Best? For Coffee. 17,479; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Coffee Must Always be "Just Right" Too. For Coffee. 17,480; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Flavor is the "Voice" of Coffee. For Coffee. 17,481; July 4.

Hills Bros. Coffee, Inc., San Francisco, Calif. Do Your Guests Like the Coffee You Serve? For Coffee. 17,482; July 4.

Parker Pen Company, The, Janesville, Wis. Looking into the Wishing Well to See the Gift-Pen That Graduates Have Set Their Hearts on! For Fountain Pens, Mechanical Pencils, and Ink. 17,483; July 4.

Raheb-Diat, Inc., New York, N. Y. Camisole Culotte Slip. For a Trouser Slip. 17,484; July 4.

Welch Fruit Products Co., Chicago, Ill. Sensation of the Year! For Ice Cream Sodas. 17,485; July 4.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Leather. Amalgamated Leather Companies Inc. 368,939; July 4.

Leather. Monarch Leather Company. 368,938; July 4.

Protein. Isolated vegetable. Glidden Company. 368,826; July 4; Serial No. 405,497; published Apr. 25, 1939.

Wood pulp. Gottesman and Company. 368,820; July 4; Serial No. 399,962; published Apr. 25, 1939.

CLASS 4

Cleaner for dental plates. Dent-A-Firm Laboratories, Inc. 368,885; July 4; Serial No. 415,583; published Apr. 25, 1939.

Cleaner, Glass. Salem Chemical & Supply Co. 368,875; July 4; Serial No. 415,353; published Apr. 25, 1939.

Cleanser. Diversey Corporation. 368,924–5; July 4; Serial Nos. 416,550–1; published Apr. 25, 1939.

Creams, dressing, and polishes, Shoe. Le Cliff Distributing Co. 368,879; July 4; Serial No. 415,517; published Apr. 25, 1939.

Emery cloth, emery paper, etc., Silicon carbide. Nordeutsche Schleifmittel Industrie Christiansem & Co. 368,822; July 4; Serial No. 401,785; published Feb. 21, 1939.

Soaps and soluble pine oils. Hercules Powder Company. 368,857; July 4; Serial No. 412,141; published Apr. 25, 1939.

CLASS 8

Pipes, cigar holders, and cigarette holders. G. Kapp. 368,918–19; July 4; Serial Nos. 416,425–6; published Apr. 25, 1939.

CLASS 9

Blasting cap protectors. Miller Manufacturing Company. 368,957; July 4.

CLASS 10

Superphosphate and phosphate, Treble. Anaconda Copper Mining Company. 368,824; July 4; Serial No. 402,705; published Apr. 25, 1939.

CLASS 13

Percolators, Base metal coffee. Aluminum Goods Mfg. Co. 368,844; July 4; Serial No. 412,689; published Apr. 18, 1939.

Valves, faucets, shower fixtures, etc., Radiator air. Tru Test Marketing & Merchandising Corp. 368,859; July 4; Serial No. 414,125; published Apr. 25, 1939.

Wire cloth. Pequot Wire Cloth Co. 368,855; July 4; Serial No. 413,957; published Apr. 25, 1939.

CLASS 14

Metal ornamented with a decorative coating, Sheet. American Can Company. 127,174; renewed Oct. 21, 1939.

Steel. Vanadium-Alloys Steel Company. 368,952; July 4.

CLASS 15

Oil and rust preventive, Lubricating. Petroleum Products Co. 122,339; renewed July 23, 1938.

CLASS 16

Paints, paint enamels, shellacs, etc. India Paint & Lacquer Co. 368,838; July 4; Serial No. 412,143; published Apr. 25, 1939.

Varnish stains and paint enamels. Con-Ferro Paint & Varnish Company. 368,842; July 4; Serial No. 412,498; published Apr. 25, 1939.

CLASS 19

Floats, ring buoys, sea anchors, etc., Life. Atlantic-Pacific Mfg. Corp. 368,831; July 4; Serial No. 410,447; published Apr. 25, 1939.

CLASS 21

Batteries, Storage. Universal Motor Oils Company. 368,843; July 4; Serial No. 412,568; published Apr. 25, 1939.

Coating for protecting electrical ignition wires, sparkplugs, etc., Liquid. O. B. Huskey. 368,865; July 4; Serial No. 414,496; published Apr. 25, 1939.

Curling irons, food mixers, corn poppers, etc., Electric. Knapp-Monarch Company. 368,834; July 4; Serial No. 411,697; published Apr. 25, 1939.

Fans, motors and blowers. Batterman Truitt Company. 125,608; renewed June 3, 1939.

Signalling apparatus, Electric. Signal Engineering & Mfg. Co. 368,825; July 4; Serial No. 403,564; published Apr. 25, 1939.

Switches, Electric. L. F. Schwarz. 368,850; July 4; Serial No. 413,147; published Apr. 25, 1939.

Wire, Locomotive-headlight. Habirshaw Electric Cable Company. 126,164; renewed July 29, 1939.

CLASS 22

Fishing lures. W. E. Haselwood. 368,937; July 4; Serial No. 417,280; published Apr. 25, 1939.

Game. J. J. Fennessy. 368,841; July 4; Serial No. 412,411; published Apr. 25, 1939.

Games and toys. Lawner Martin Corp. 368,953; July 4.

Tails for artificial flies. J. Johnson. 368,933; July 4. Serial No. 416,784; published Apr. 25, 1939.

CLASS 23

Air sterilizing apparatus. L. Adler. 368,833; July 4; Serial No. 411,670; published Apr. 25, 1939.

Apparatus for use in cleaning or otherwise treating surfaces of containers, drums, barrels, and the like. Portland Company. 368,852; July 4; Serial No. 413,683; published Apr. 25, 1939.

Axes, hatchets, draw knives, etc., Peck, Stow & Wilcox Company. 368,817; July 4; Serial No. 396,004; published Apr. 25, 1939.

Chlorine and/or ammonia metering, feeding, and absorbing apparatus. Everson Manufacturing Company. 368,867; July 4; Serial No. 414,627; published Apr. 25, 1939.

Drilling machinery, Well. J. H. Okell. 368,857; July 4; Serial No. 414,079; published Apr. 25, 1939.

Heat exchangers, Liquid. Cherry-Burrell Corporation. 368,847; July 4; Serial No. 412,943; published Apr. 25, 1939.

Machinery. Engineering and Research Corporation. 368,877; July 4; Serial No. 415,445; published Apr. 25, 1939.

Tools, Diamond dressing. J. K. Smit & Sons, Inc. 368,878; July 4; Serial No. 415,487; published Apr. 25, 1939.

Tools, Metal boring machine. Eclipse Counterbore Company. 368,853; July 4; Serial No. 413,704; published Apr. 25, 1939.

Transmissions and valves for fluid control. Acrotorque Drive and Power Company. 368,861; July 4; Serial No. 414,253; published Apr. 25, 1939.

Turntables. H. H. Mack. 368,863; July 4; Serial No. 414,457; published Apr. 25, 1939.

Vulcanizing steam chamber and tire building machine, Vapor cure. J. Milhander. 368,848; July 4; Serial No. 412,980; published Apr. 25, 1939.

CLASS 26

Cameras. Folmer Graflex Corporation. 368,900; July 4.

Glasses, Opera. Selsi Company. 368,909; July 4; Serial No. 416,342; published Apr. 25, 1939.

Glasses, Sun. Columbia Protektosite Co. 368,897; July 4; Serial No. 416,135; published Apr. 25, 1939.

Ophthalmic blanks and lenses. Continental Optical Company. 368,916; July 4; Serial No. 416,403; published Apr. 25, 1939.

Photographic apparatus and supplies. P. H. Lasher. 368,823; July 4; Serial No. 401,800; published Apr. 25, 1939.

Speedometers, Bicycle. General Motors Corporation. 368,915; July 4; Serial No. 416,373; published Apr. 25, 1939.

Timing machines, speedometers, tachometers, etc. Hamilton Watch Company. 368,840; July 4; Serial No. 412,255; published Apr. 25, 1939.

CLASS 27

Clocks. E. I. du Pont de Nemours and Company. 368,903; July 4; Serial No. 416,232; published Apr. 25, 1939.

Watches, Pocket and wrist. Hershberg's. 368,942; July 4.

Watches, Pocket and wrist. Hershberg's. 368,945; July 4.

CLASS 29

Brooms, rubber brushes, and clothes brushes; Whisk. J. Weil. 368,845; July 4; Serial No. 412,784; published Apr. 25, 1939.

Brushes. Leopold Ascher Co. 368,958; July 4.

Brushes. E. I. du Pont de Nemours and Company. 368,902; July 4; Serial No. 416,231; published Apr. 25, 1939.

Brushes, nail scrubs, etc., Hair and nail. Henry Kayser & Fils, Inc. 368,959; July 4.

CLASS 30

Dinnerware, Ceramic. Edwin M. Knowles China Company. 368,906; July 4; Serial No. 416,293; published Apr. 25, 1939.

CLASS 31

Bins in refrigerators, Storage. Westinghouse Electric & Manufacturing Company. 368,940; July 4.

Filter material. Filtermass Manufacturing Co. 368,936; July 4; Serial No. 417,167; published Apr. 25, 1939.

Refrigerators, Dry ice. C. W. Ball. 368,935; July 4; Serial No. 417,160; published Apr. 25, 1939.

CLASS 32

Blinds, Venetian. P. Politz. 368,932; July 4; Serial No. 416,700; published Apr. 25, 1939.

Furniture, Gliding. Shott Manufacturing Company. 368,858; July 4; Serial No. 414,085; published Apr. 25, 1939.

Shades, window shades, and shade rollers, Mounted. Columbia Mills, Inc. 368,934; July 4; Serial No. 416,999; published Apr. 25, 1939.

CLASS 34

Boilers, mechanical stokers, furnaces, etc. Anthracite Industries, Inc. 368,839; July 4; Serial No. 412,246; published Apr. 25, 1939.

Coils for boilers, Hot water. Fitzgibbons Boiler Company. 368,954; July 4.

Ranges, gas heated broilers, bake ovens, etc., Gas. American Stove Company. 368,905; July 4; Serial No. 416,279; published Apr. 25, 1939.

CLASS 35

Tubes, Inner. Norwalk Tire & Rubber Company. 368,951; July 4.

CLASS 36

Accordions. C. G. Conn Ltd. 368,948; July 4.

Pianos and organs. Winter & Co. 368,821; July 4; Serial No. 401,083; published Apr. 25, 1939.

CLASS 37

Books of blank forms. Sales Research, Incorporated. 368,866; July 4; Serial No. 414,535; published Apr. 25, 1939.

Envelopes. Mail-Well Envelope Company. 368,950; July 4.

Ink stands and writing desk sets. C. G. Gregory. 368,922; July 4; Serial No. 416,462; published Apr. 25, 1939.

Paper and gummed paper tape, Gummed. McLaurin-Jones Co. 368,828; July 4; Serial No. 408,322; published Apr. 25, 1939.

Paper, Manifold. Detroit Sulphite Pulp & Paper Co. 368,908; July 4; Serial No. 416,318; published Apr. 25, 1939.

Paper, Typewriter. Eaton Paper Corporation. 368,891–3; July 4; Serial Nos. 416,051–3; published Apr. 25, 1939.

Pens. H. J. Deerwester, Sr. 368,890; July 4; Serial No. 416,048; published Apr. 25, 1939.

Record sheets. B. H. O'Brien. 368,896; July 4; Serial No. 416,110; published Apr. 25, 1939.

CLASS 39

Boots, shoes, and sandals. Juvenile Shoe Corporation of America. 127,426; renewed Nov. 11, 1939.
Coats. S. Weitz & Company. 368,846; July 4; Serial No. 412,837; published Apr. 18, 1939.
Hosiery. Richard Lapeira & Co. 368,941; July 4.
Pants, Baby. I. B. Kleinert Rubber Company. 127,565; renewed Nov. 11, 1939.

CLASS 40

Goods, furnishings, and notions, Fancy. Arbeka Webbing Company. 125,382; renewed May 20, 1939.

CLASS 41

Parasols, beach umbrellas, and beach sun shades. Sun Dodger Company. 368,864; July 4; Serial No. 414,473; published Apr. 11, 1939.

CLASS 42

Bedding, Article of. C. W. Maish. 368,849; July 4; Serial No. 413,022; published Apr. 25, 1939.
Corduroy. S. T. Palay Textile Corporation. 368,830; July 4; Serial No. 410,437; published Apr. 25, 1939.
Cotton piece goods. S. M. Schwab Jr. & Co. 368,851; July 4; Serial No. 413,647; published Apr. 25, 1939.
Curtains, Window. Bartmann & Bixer Inc. 368,926; July 4; Serial No. 416,597; published Apr. 25, 1939.
Fabrics of cotton, Pile. Merrimack Manufacturing Company. 368,944; July 4.
Fabrics, Woven. Hodges Carpet Company. 368,917; July 4; Serial No. 416,419; published Apr. 25, 1939.
Piece goods. Celanese Corporation of America. 368,913–14; July 4; Serial Nos. 416,368–9; published Apr. 25, 1939.
Piece goods. Mary Muffet, Inc. 368,920; July 4; Serial No. 416,434; published Apr. 25, 1939.
Rugs and carpets. Mohawk Carpet Mills, Inc. 368,955; July 4.
Woolen goods. S. Stein & Co. 368,910; July 4; Serial No. 416,346; published Apr. 25, 1939.
Woolen piece goods. Forstmann Woolen Co. 368,860; July 4; Serial No. 414,146; published Apr. 25, 1939.
Woolen piece goods. Forstmann Woolen Co. 368,931; July 4; Serial No. 416,687; published Apr. 25, 1939.

Class 44

Covers for sanitary napkins, Protective rubber. H. S. Mayer. 368,888; July 4; Serial No. 415,788; published Apr. 25, 1939.
Prophylactic rubber articles. Killian Manufacturing Company. 368,946; July 4.
Sanitary belts. Beltx Corporation. 368,880; July 4; Serial No. 415,533; published Apr. 25, 1939.
Sutures, Surgical. J. E. Bellas. 368,862; July 4; Serial No. 414,334; published Apr. 25, 1939.

CLASS 45

Beer, root-beer, lemon-soda, etc., Birch. Country Club Soda Company. 126,831; renewed Oct. 7, 1939.
Beverage, and sirup and extract for making same, Maltless. M. Rothstein. 368,929; July 4; Serial No. 416,617; published Apr. 25, 1939.
Beverage, and sirup and extract for making the same. Foote & Jenks, Inc. 368,881; July 4; Serial No. 415,544; published Apr. 25, 1939.
Beverage, and sirup and extract for making the same. Foote & Jenks, Inc. 368,882–3; July 4; Serial Nos. 415,547–8; published Apr. 25, 1939.
Beverages and for the concentrates thereof, Maltless. Grandpa Brands Company. 368,930; July 4; Serial No. 416,632; published Apr. 25, 1939.
Beverages, and sirups and extracts for making the same. O. V. Clark. 368,927; July 4; Serial No. 416,601; published Apr. 25, 1939.
Beverages, and sirups, extracts, and flavors used for making the same. Barq's Root Beer Company. 368,911–2; July 4; Serial Nos. 416,363–4; published Apr. 25, 1939.
Water, maltless beverages, sirups and extracts for making same, Mineral. I. B. Kraut. 368,928; July 4; Serial No. 416,610; published Apr. 25, 1939.

CLASS 46

Canned fish. Kelley-Clarke Co. 368,894; July 4; Serial No. 416,068; published Apr. 25, 1939.
Canned fruits. Bear Creek Orchards. 368,898; July 4; Serial No. 416,176; published Apr. 25, 1939.
Cereal grains, Dextrinized. Dextro Products, Inc. 368,829; July 4; Serial No. 408,943; published Apr. 25, 1939.
Cereal, Whole-wheat. J. Greaves. 368,856; July 4; Serial No. 414,029; published Apr. 25, 1939.
Chocolate and butter-scotch coatings, frozen confections, etc. J. Lowe Corporation. 368,887; July 4; Serial No. 415,724; published Apr. 25, 1939.
Coffee. Albert Ehlers, Inc. 368,895; July 4; Serial No. 416,094; published Apr. 25, 1939.
Confections and malt powder for flavoring frozen confections, ice cream, etc., Frozen. Joe Lowe Corporation. 368,870–1; July 4; Serial Nos. 414,957–8; published Apr. 25, 1939.
Confections and syrups, Frozen. J. Lowe Corporation. 368,886; July 4; Serial No. 415,722; published Apr. 25, 1939.
Cucumbers, Preserved. J. W. Hamilton. 368,923; July 4; Serial No. 416,463; published Apr. 25, 1939.
Dairy products. Arden Farms, Inc. 368,816; July 4; Serial No. 391,604; published Feb. 1, 1938.
Eggs and dressed poultry. Karsten & Sons. 368,836; July 4; Serial No. 411,997; published Apr. 25, 1939.
Fish, Preserved. J. da C. Gargalo. 368,854; July 4; Serial No. 413,857; published Apr. 25, 1939.
Flour and coffee, Wheat. Birdseye Flour Mills. 368,872; July 4; Serial No. 414,981; published Apr. 25, 1939.
Flour, Wheat. Commander Mill Co. 127,269; renewed Nov. 4, 1939.
Flour, Wheat. Holmes & Barnes, Ltd. 127,058; renewed Oct. 21, 1939.
Foods. Fargo Food Products Co. 125,567; renewed May 27, 1939.
Foods and ingredients of foods. Maggi Co. 368,818; July 4; Serial No. 396,141; published Feb. 7, 1939.
Foods and ingredients of foods. Maggi Co. 368,819; July 4; Serial No. 396,144; published Feb. 14, 1939.
Foods and ingredients of foods. Maggi Co. 368,827; July 4; Serial No. 407,909; published Feb. 28, 1939.
Grapes, Fresh. A. Giolitti. 368,869; July 4; Serial No. 414,874; published Apr. 25, 1939.
Gum, Chewing. Gum Incorporated. 368,884; July 4; Serial No. 415,551; published Apr. 25, 1939.
Honey. T. W. Heinzerling. 368,835; July 4; Serial No. 411,741; published Apr. 18, 1939.
Nuts, candy, and chocolate coated nuts, Salted. Awful Fresh MacFarlane. 368,904; July 4; Serial No. 416,241; published Apr. 25, 1939.
Oil, cookery oil, and shortening, Cottonseed salad. Cotton Products Company. 368,868; July 4; Serial No. 414,862; published Apr. 25, 1939.
Oranges and grapefruit, Fresh. Palmer Corporation. 368,901; July 4; Serial No. 416,204; published Apr. 25, 1939.
Pickles, ground sweet pickle relish, chili peppers, etc. B. H. McEachen. 368,943; July 4.
Pies, Fried. H. C. Marshall. 368,832; July 4; Serial No. 410,655; published Apr. 25, 1939.
Popcorn in its natural state, Yellow. R. Meyer. 368,907; July 4; Serial No. 416,294; published Apr. 25, 1939.
Potatoes. Colorado Potato Growers Exchange. 368,921; July 4; Serial No. 416,455; published Apr. 25, 1939.
Sugar candies, Maple. Maple Grove, Inc. 368,873; July 4; Serial No. 415,006; published Apr. 25, 1939.
Tea. A. Ehlers, Inc. 368,889; July 4; Serial No. 415,883; published Apr. 25, 1939.
Teas, mustard, coffee, etc. Meyer Bros. Coffee and Spice Co. 127,639; renewed Nov. 18, 1939.

CLASS 47

Wine. Callis and Hammond, Inc. 368,956; July 4.

CLASS 49

Rum. Destilleria Serralles, Inc. 368,874; July 4; Serial No. 415,286; published Mar. 28, 1939.
Whiskey. Bardstown Distillery, Inc. 368,876; July 4; Serial No. 415,439; Published Apr. 25, 1939.
Whiskey. Blair Distilling Company. 368,947; July 4.

CLASS 50

Buttons, badges, medallions, etc., Lapel. I. Olenik. 368,900; July 4; Serial No. 416,203; Published Apr. 25, 1939.
Forms, Hosiery drying. H. S. Schwarz. 368,949; July 4.
Transparent sheet material. Ivers-Lee Company. 368,899; July 4; Serial No. 416,190; Published Apr. 25, 1939.

LIST OF LABELS

Beech-Nut Assorted Cookies. For Assorted Cookies. Beech-Nut Packing Company; 53,208; July 4.
Beech-Nut Soya Cocktailettes. For Biscuits. Beech-Nut Packing Company. 53,209; July 4.
C and H Sugar Pure Can XXXXXX Confectioners Powdered. For Sugar. California and Hawaiian Sugar Refining Corporation. 53,210; July 4.
Colonel Crunch. For Popped Popcorn. C. Hefley. 53,219; July 4.
Dutch Boy. For Fresh Vegetables. T. M. Parks. 53,229; July 4.
Fine Footwear. For Footwear. A. C. Clayton Printing Company. 53,211; July 4.
Flash. For a Firefighting Device. A. W. Gillespie. 53,217; July 4.
Germ-O-Weat. For Bread. Interstate Bakeries Corporation. 53,221; July 4.
Green Tinted Zee Tissue Family-Pak. For Toilet Tissue. Comfort Paper Corporation. 53,212; July 4.

K. Taylor. For Kentucky Straight Bourbon Whiskey. K. Taylor Distilling Co. 53,232; July 4.
Kemp's Old Fashioned Molasses Pop Corn. For Molasses Pop Corn. E. F. Kemp, Inc. 53,228; July 4.
Mead's Oleum Percomorphum 50%. For a Blend of the Liver Oils of Percomorph Fishes Admixed with not More than 50% Cod Liver Oil, Containing not Less than 60,000 Vitamin A Units, U. S. P., and not Less than 8,500 Vitamin D Units, U. S. P. Per Gram. Mead Johnson & Company. 53,222; July 4.
Mead's Powdered Lactic Acid Milk No. 2. For Whole Milk Acidified with Lactic Acid, Homogenized and Spray-Dried. Mead Johnson & Company. 53,225; July 4.
Mead's Powdered Protein Milk. For a Homogenized, Spray-Dried Mixture of Whole Milk Curd and Skim Milk Acidified with Lactic Acid. Mead Johnson & Company. 53,224; July 4.
Mead's Powdered Whole Milk. For Powdered Whole Milk. Mead Johnson & Company. 53,226; July 4.
Mead's Powdered Whole Milk with Dextri-Maltose. For a Homogenized, Spray-dried Mixture of Whole Milk, Maltose and Dextrins. Mead Johnson & Company. 53,227; July 4.
Mead's Standardized Cod Liver Oil. For Cod Liver Oil Containing not Less than 1800 Vitamin A Units, U. S. P., and not Less than 175 Vitamin D Units, U. S. P., Per Gram. Mead Johnson & Company. 53,223; July 4.
Nutmeg State. For Ale. Eastern Brewing Corporation. 53,215; July 4.
Nutmeg State. For Beer. Eastern Brewing Corporation. 53,216; July 4.
Orchid Tinted Zee Tissue Family-Pak. For Toilet Tissue. Comfort Paper Corporation. 53,213; July 4.
Pickle Patch. For Dill Pickles. W. B. Roddenberry Co. 53,230; July 4.
Rose-Glo. For a Scientific Toilet Bowl Deodorizer and Cleaner. Wonder Products Company. 53,235; July 4.
Safe-Baked. For Bread. Strochmann Brothers Company. 53,231; July 4.
Salvus Sutures. For Sutures. Davis & Pitann Ltd. 53,214; July 4.
Skippy. For Chewing Gum. Gumakers of America, Inc. 53,218; July 4.
Slip-O-Net. For Hair Nets. Improved Hair Net Co. 53,220; July 4.
Tennessee Elberta Peaches Individual Slices Quick Frozen. For Quick Frozen Individual Slices of Elberta Peaches. University of Tennessee Engineering Experiment Station. 53,233; July 4.
Vi-Ti-Mi Brand. For Dog and Cat Food. Vi-Ti-Mi Products. 53,234; July 4.

LIST OF PRINTS

A Meal is Judged by its Coffee. For Coffee. Hills Bros. Coffee, Inc. 17,478; July 4.
Camisole Culotte Slip. For a Trouser Slip. Raheb-Diat, Inc. 17,484; July 4.
Coffee is Vulnerable to Every Taste. For Coffee. Hills Bros. Coffee, Inc. 17,474; July 4.
Coffee Must Always be "Just Right" Too. For Coffee. Hills Bros. Coffee, Inc. 17,480; July 4.
Coffee Should be Served With Pride. For Coffee. Hills Bros. Coffee, Inc. 17,470; July 4.
Coffee Should be the Meal's Bright Spot. For Coffee. Hills Bros. Coffee, Inc. 17,475; July 4.
Does the Coffee You Service Represent You? For Coffee. Hills Bros. Coffee, Inc. 17,472; July 4.
Do Your Guests Like the Coffee You Serve? For Coffee. Hills Bros. Coffee, Inc. 17,482; July 4.
Every Meal is an 'Exposition' For Coffee. For Coffee. Hills Bros. Coffee, Inc. 17,477; July 4.
Flavor is the "Voice" of Coffee. For Coffee. Hills Bros. Coffee, Inc. 17,481; July 4.
Is Your Coffee Always at its Best? For Coffee. Hills Bros. Coffee, Inc. 17,479; July 4.
It's Easy to Bake and Easy to Take! For Flour. General Mills, Inc. 17,469; July 4.
Look into the Wishing Well to See the Gift-Pen That Graduates Have Set their Hearts on! For Fountain Pens, Mechanical Pencils and Ink. Parker Pen Company. 17,483; July 4.
Sensation of the Year! For Ice Cream Sodas. Welch Fruit Products Co. 17,485; July 4.
Tastes Become Keen When Coffee Appears. For Coffee. Hills Bros. Coffee, Inc. 17,471; July 4.
Tastes are 'Focused' on Coffee. For Coffee. Hills Bros. Coffee, Inc. 17,473; July 4.
Will Your Coffee Stand a Frank Opinion? For Coffee. Hills Bros. Coffee, Inc. 17,476; July 4.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bailey, Otterbein A., assignor to Chicago Bridge & Iron Company, Chicago, Ill. Liquid storage tank with floating roof. Re. 21,135; July 4.

Central Commercial Company. (See Firestone, Floyd A., assignor.)

Chicago Bridge & Iron Company. (See Bailey, Otterbein A., assignor.)

Davis, Kenneth, Punxsutawney, Pa., assignor, by mesne assignments, to R. Peale, M. F. Locke, and W. B. Oaks, trustees. Process and mechanism for dividing intermixed materials. Re. 21,136; July 4.

Firestone, Floyd A., Ann Arbor, Mich., assignor to Central Commercial Company, Chicago, Ill. Organ. Re. 21,137; July 4.

Haltenberger, Jules, Ann Arbor, Mich. Automobile. Re. 21,138; July 4.

Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Motor vehicle system. Re. 21,139; July 4.

Trico Products Corporation. (See Horton, Erwin C., assignor.)

Locke, Morton F., et al., trustees. (See Davis, Kenneth, assignor.)

Mahler, Robert, New York, N. Y. Automatic feed water valve for boilers. Re. 21,140; July 4.

Peale, Richard, et al., trustees. (See Davis, Kenneth, assignor.)

Oakes, William B., et al., trustees. (See Davis, Kenneth, assignor.)

Underwood Elliott Fisher Company. (See Pitman, Henry L., assignor.)

LIST OF PLANT PATENTEES

Grillo, Nicholas, Millidale, Conn. Hybrid tea rose. 334; July 4.

LIST OF DESIGN PATENTEES

American Radiator & Standard Sanitary Corporation. (See Cornell, Edward S., Jr., assignor.)

Autopoint Company. (See Dell, F. C., and Petau, assignors.)

Bahr, Gustave F., assignor to Casco Products Corporation, Bridgeport, Conn. Knob. 115,537; July 4.

Baker Perkins Company. (See Van Doran, Harold, assignor.)

Baldwin Company, The. (See Day, Wilbur M., assignor.)

Bally Ribbon Mills, Inc., The. (See Kinney, Thomas H., assignor.)

Barber, Charles E., assignor to Chicago Musical Instrument Company, Chicago, Ill. Musical instrument for playing bugle calls or the like. 115,512; July 4.

Barnes, James F., and J. O. Reinecke, Chicago, Ill., assignors to Scovill Manufacturing Company, Waterbury, Conn. Fruit juice extractor. 115,487; July 4.

Beilinson, Dorothy, New York, N. Y. Dress ensemble. 115,583; July 4.

Bersted Manufacturing Company. (See Hook, Arley U., assignor.)

Borg-Warner Corporation. (See Caldwell, W. B., and Peters, assignors.)

Boros, John, New York, N. Y. Dime bank. 115,538; July 4.

Brown, Albert, New York, N. Y. Billfold. 115,579; July 4.

Brown, William T., assignor to The Watson Company, Attleboro, Mass. Spoon or similar article. 115,539; July 4.

Bry, Louis, New York, N. Y. Textile fabric. 115,488; July 4.

Caldwell, Walter B., Flossmoor, and E. F. Peters, Chicago Heights, assignors to Borg-Warner Corporation, Chicago, Ill. Fence post. 115,540; July 4.

Canal National Bank of Portland, The. (See Randall, Walter H., assignor.)

Casco Products Corporation. (See Bahr, Gustave F., assignor.)

Chamberlain, Inc. (See Francis, John G., assignor.)

Chicago Musical Instrument Company. (See Barber, Charles E., assignor.)

Cohen, Louis, New York, N. Y. Jacket. 115,584; July 4.

Cohen, Moe J., and A. Wirklich, New York, N. Y. Child's handbag. 115,541; July 4.

Coleman Lamp and Stove Company, The. (See Olds, Ambrose D., assignor.)

Conroy, Edward J., New Haven, assignor to International Silver Company, Meriden, Conn. Spoon or other article of flatware. 115,542; July 4.

Cornell, Edward S., Jr., Larchmont, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Valve for a hot water heating system. 115,543; July 4.

Crane Co. (See Olson, Charles A., assignor.)

Day, Wilbur M., Norwood, assignor to The Baldwin Company, Cincinnati, Ohio. Piano case. 115,513; July 4.

Dell, Frank C., and E. Petau, assignors to Autopoint Company, Chicago, Ill. Pen and pencil clip. 115,544; July 4.

De Witt, William J., assignor to Shoe Form Co., Inc., Auburn, N. Y. Fly box. 115,545; July 4.

Edison General Electric Appliance Company. (See Stopa, Walter T., assignor.)

Eisenberg, Arthur A., assignor to National Silver Company, New York, N. Y. Combined cabinet and end table. 115,489; July 4.

Farnsworth, Daniel W., New York, N. Y. Textile fabric. 115,490; July 4.

Faulconer, Ralph, Frederick, Okla. Artificial fish lure. 115,546; July 4.

Felger, Gladys E., Santa Barbara, Calif. Coat. 115,594; July 4.

Felger, Gladys E., Santa Barbara, Calif. Coat. 115,595; July 4.

Floyd-Wells Company, The. (See Schneider, Frank H., assignor.)

Ford, George E., assignor to Rochester Manufacturing Co., Rochester, N. Y. Dial casing for thermometers or the like. 115,547; July 4.

Forster Manufacturing Co. (See Forster, Percy M., assignor.)

Forster, Percy M., assignor to Forster Manufacturing Co. Ltd., Berkeley, Calif. Stove or similar article. 115,491; July 4.

Fracchia, Pauline, New York, N. Y. Dress. 115,597; July 4.

Fracchia, Pauline, New York, N. Y. Dress. 115,598; July 4.

Fracchia, Pauline, New York, N. Y. Dress. 115,599; July 4.

Francis, John G., assignor to Chamberlain, Inc., Chicago, Ill. Glass teakettle. 115,514; July 4.

Fuerst, Edwin W., assignor to Libbey Glass Company, Toledo, Ohio. Tumbler. 115,492; July 4.

Fuerst, Edwin W., assignor to Libbey Glass Company, Toledo, Ohio. Tumbler. 115,493; July 4.

Glass, Benjamin, New York, N. Y. Ice cream cone. 115,494; July 4.

Goldsmith, Samuel R., New York, N. Y. Handbag. 115,548; July 4.

Gratiot Fixture & Supply Co. (See Hayes, Edward L., assignor.)

Greenberg, Morris W., Buffalo, N. Y. Lifter for plates, dishes, or the like. 115,515; July 4.

Greer, Jesse L., Dallas, Tex. Street sign. 115,549; July 4.

Hamilton, Alfred F., Seattle, Wash. Game board. 115,550; July 4.

Hansen, Melvin O., assignor to Libbey Glass Company, Toledo, Ohio. Tumbler. 115,496; July 4.

Hardwick, Christopher L., Cleveland, Tenn. Handle for gas ranges. 115,551; July 4.

Hardwick, Christopher L., Cleveland, Tenn. Handle for gas ranges. 115,552; July 4.

Harris, Herbert M., New York, N. Y. Dress. 115,585; July 4.
Harris, Murray, assignor to Paramount Display Company, Fort Worth, Tex. Clock. 115,553; July 4.
Havemeyer, Herbert E., Riverside, Ill. Log tongs. 115,574; July 4.
Hayes, Edward L., assignor to Gratiot Fixture & Supply Co., Detroit, Mich. Display counter. 115,495; July 4.
Hazel-Atlas Glass Company. (See Hendrickson, Jack L., assignor.)
Heisey, A. H., & Company. (See Heisey, T. Clarence, assignor.)
Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass relish dish or article of similar nature. 115,497; July 4.
Heller, Henry R., assignor to Winter & Co., New York, N. Y. Piano. 115,498; July 4.
Heller, Henry R., assignor to Winter & Co., New York, N. Y. Piano. 115,499; July 4.
Hendrickson, Jack L., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Jug. 115,516; July 4.
Hirsh, Melvin, Chicago, Ill. Coat. 115,586; July 4.
Hoch, Frederick R., Norton, assignor to T. J. Holmes Co. Inc., Chartley, Mass. Bottle. 115,554; July 4.
Holmes, T. J., Co. Inc. (See Hoch, Frederick R., assignor.)
Hook, Arley U., assignor to Bersted Manufacturing Company, Fostoria, Ohio. Beverage mixer. 115,517; July 4.
Hyman, Morris, New York, N. Y. Dress. 115,600; July 4.
International Silver Company. (See Conroy, Edward J., assignor.)
International Silver Company. (See Kintz, Alfred G., assignor.)
Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)
Jacobs, Joseph, Detroit, Mich. Coin savings bank. 115,555; July 4.
Jarvis & Jarvis, Inc. (See Scudder, Eliot R., assignor.)
Johnson, Edgar, Seymour, Ind. Game board. 115,556; July 4.
Kay, Ralph, New York, N. Y. Slide fastener closure. 115,557; July 4.
Kenney, John E., Portland, Oreg. Ozone machine. 115,500; July 4.
Kenney, John E., Portland, Oreg. Ozone machine. 115,501; July 4.
Kinney, Thomas H., assignor to The Bally Ribbon Mills, Inc., Bally, Pa. Ribbon. 115,518; July 4.
Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon or other article of flatware. 115,558; July 4.
Kintz, Alfred G., Wallingford, assignor to International Silver Company, Meriden, Conn. Spoon or other article of flatware. 115,580; July 4.
Koch, Louis A., Louisville, Ky. Automobile grille guard. 115,559; July 4.
Kohl, William R., Glen View, Ill. Transparent moth-proof garment container. 115,502; July 4.
Krüger, Johannes, assignor to Olympia Büromaschinenwerke A. G., Erfurt, Germany. Carrying case for typewriters. 115,560; July 4.
Lacy Products Corp. (See Redlich, Rudolph, assignor.)
Lee, George L., Maplewood, N. J. Display sign. 115,561; July 4.
Levin, Joseph, Lancaster, Pa., assignor to Polan, Katz & Company, Baltimore, Md. Umbrella. 115,562; July 4.
Libbey Glass Company. (See Fuerst, Edwin W., assignor.)
Libbey Glass Company. (See Hansen, Melvin O., assignor.)
Linyard, Wallace K., Memphis, Tenn. Tool holder. 115,503; July 4.
Martial, Jacques, New York, assignor to C. Q. Sherman, Mount Vernon, N. Y. Combined storage and dispensing cabinet. 115,504; July 4. a
May Oil Burner Corporation. (See Sandlas, Henry J., Jr., assignor.)
Mayehoff, Mordecai N., New York, N. Y. Dress. 115,601; July 4.
Moreau, Mabel, Detroit, Mich. Liquor goblet. 115,519; July 4.
Moreau, Mabel, Detroit, Mich. Liquor goblet. 115,520; July 4.
Moreau, Mabel, Detroit, Mich. Liquor goblet. 115,521; July 4.
Moreau, Mabel, Detroit, Mich. Liquor goblet. 115,522; July 4.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Support for coal and wood range or the like. 115,563; July 4.
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Motor casing. 115,575; July 4.
Motor Products Corporation. (See Newport, Jesse H., Jr., assignor.)
National Silver Company. (See Eisenberg, Arthur A., assignor.)
Newman, Louis, New York, N. Y. Coat. 115,587; July 4.
Newman, Louis, New York, N. Y. Coat. 115,588; July 4.
Newport, Jesse H., Jr., Birmingham, assignor to Motor Products Corporation, Detroit, Mich. Vending machine. 115,564; July 4.
Nomsen, Ralph P. (See Perry, B. J., and Nomsen.)
O'Donnell, Charles E., Lynn, Mass. Boot. 115,565; July 4.
Olds, Ambrose D., assignor to The Coleman Lamp and Stove Company, Wichita, Kans. Lamp. 115,505; July 4.
Olean Glass Company. (See Smith, George, Jr., assignor.)
Olson, Charles A., Geneva, assignor to Crane Co., of Chicago, Ill. Handwheel. 115,566; July 4.
Olympia Büromaschinenwerke A. G. (See Krüger, Johannes, assignor.)
Orian, John W., New York, N. Y. Finger ring or the like. 115,506; July 4.
Owings, Nathaniel A., Chicago, Ill., assignor to Stefco Steel Company, Michigan City, Ind. Building. 115,507; July 4.
Paramount Display Company. (See Harris, Murray, assignor.)
Perry, Bernard J., and R. P. Nomsen, Sioux City, Iowa. Bicycle lamp or similar article. 115,508; July 4.
Petau, Erik. (See Deli, F. C., and Petau.)
Peters, Edward F. (See Caldwell, W. B., and Peters.)
Polan, Katz & Company. (Se Levin, Joseph, assignor.)
Posnack, Emanuel R., New York, N. Y. Combination desk unit. 115,567; July 4.
Randall, Walter H., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine. Combined molded pulp container and cover therefor for a food product, drinking cup, or the like. 115,523; July 4.
Randall, Walter H., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine. Molded pulp plate or the like. 115,524; July 4.
Randall, Walter H., Waterville, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine. Molded pulp container for a food product, drinking cup, or the like. 115,525; July 4.
Redlich, Rudolph, assignor to Lacy Products Corp., Chicago, Ill. Display stand. 115,509; July 4.
Reinecke, Jean O. (See Barnes, J. F., and Reinecke.)
Rembrecht, Therese, New York, N. Y. Doll. 115,576; July 4.
Rochester Manufacturing Co. (See Ford, George E., assignor.)
Rosenstein, Charles, Paterson, N. J. Textile fabric or similar article. 115,596; July 4.
Rubin, Jack, New York, N. Y. Textile fabric. 115,581; July 4.
Sager, Abraham, Chicago, Ill. Finger ring. 115,510; July 4.
Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Multiple envelope or similar package. 115,526; July 4.
Sandlas, Henry J., Jr., Randallstown, Md., assignor to May Oil Burner Corporation. Oil burner. 115,568; July 4.
Schneider, Frank H., assignor to The Floyd-Wells Company, Rogersford, Pa. Stove. 115,569; July 4.
Schwartz, Fred, New York, N. Y. Coat. 115,590; July 4.
Schwartz, Fred, New York, N. Y. Coat. 115,589; July 4.
Scovill Manufacturing Company. (See Barnes, J. F., and Reinecke, assignors.)
Scrimgeour, William, assignor to William Scrimgeour, Engineer and Contractor, Washington, D. C. Kitchen spoon or similar article. 115,570; July 4.
Scrimgeour, William, Engineer and Contractor. (See Scrimgeour, William, assignor.)
Scudder, Eliot R., Braintree, assignor to Jarvis & Jarvis, Inc., Palmer, Mass. Library truck. 115,527; July 4.
Sears, Roebuck and Co. (See Morgan, John R., assignor.)
Shapiro, Charles, New York, N. Y. Coat. 115,591; July 4.
Shapiro, Charles, New York, N. Y. Coat. 115,592; July 4.
Sherman, Charles Q. (See Martial, Jacques, assignor.)
Shoe Form Co. (See De Witt, William J., assignor.)
Silverman, Jacob A., Brooklyn, N. Y. Coat. 115,593; July 4.
Silverman, Max, New York, N. Y. Cigarette belt. 115,582; July 4.
Silvers, Harry A., Beverly Hills, Calif. Base for a display standard. 115,528; July 4.
Smith, George, Jr., assignor to Olean Glass Company, Olean, N. Y. Jar or similar container. 115,529; July 4.
Sowl, Orville H., Ord, Nebr. Building. 115,577; July 4.
Stefco Steel Company. (See Owings, Nathaniel A., assignor.)
Stohl, Ludwig A., Sun Prairie, Wis. Porcelain insulator. 115,530; July 4.
Stohl, Ludwig A., Sun Prairie, Wis. Porcelain insulator. 115,578; July 4.
Stopa, Walter T., Chicago, Ill., assignor to Edison General Electric Appliance Company. Water jug or similar article. 115,531; July 4.
Stough, Turney H., Jeannette, Pa. Candy container. 115,532; July 4.
Stough, Turney H., Jeannette, Pa. Candy container. 115,533; July 4.
Strite, Lloyd C., Chicago, Ill. Fish lure. 115,571; July 4.

Twomey, Lenora, New York, N. Y. Hair dress comb or similar article. 115,534; July 4.
Van Doren, Harold, Toledo, Ohio, assignor to Baker Perkins Company, Inc., Saginaw, Mich. Dough mixer. 115,511; July 4.
Watson Company, The. (See Brown, William T., assignor.)
Weiss, Leo L., New York, N. Y. Stuffed animal toy. 115,572; July 4.
Weston, Eugen W., Elginburgh, Ontario, Canada. Bottle capper casing or the like. 115,573; July 4.
Williams, Edward M., Detroit, Mich. Cabinet or similar article for smoking tobacco and game equipment. 115,535; July 4.
Winter & Co. (See Heller, Henry R., assignor.)
Wirklich, Abraham. (See Cohn, M. J., and Wirklich.)
Zimmerman, Charles E., Chicago, Ill. Broiler. 115,536; July 4.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abell, Rollin, Milton, Mass. Racket. 2,164,631; July 4.
Abrasive Products, Inc. (See Walker, Charles R., assignor.)
Adhesive Products Co., The. (See Meyer, Ferd H., assignor.)
Ajello, Michael J., Melvindale, Mich. Piling mechanism for plate mills. 2,164,371; July 4.
Alderfer, Sterling W., assignor of one-half to E. D. Andrews, Akron, Ohio. Electrical conductor and insulating material therefor. 2,164,981; July 4.
Alexandersson, Harald V., and E. W. Hullegård, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Telephone system with two-party lines. 2,164,691; July 4.
Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Matching network. 2,165,086; July 4.
Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Aperiodic transformer system. 2,165,087; July 4.
Allen-Bradley Company. (See Foster, B. N., and Fisher, assignors.)
Allis-Chalmers Manufacturing Company. (See Dortort, Isadore K., assignor.)
Allis-Chalmers Manufacturing Company. (See Fodor, Nicholas, assignor.)
Allis-Chalmers Manufacturing Company. (See Winograd, Harold, assignor.)
All American Cables, Incorporated. (See Henderson, Forest L., assignor.)
Altvater, Adolf H., University City, Mo., assignor to M. L. Dodge, Newburyport, Mass. Pump top re-forming machine. 2,164,861; July 4.
Altvater, Adolf H., University City, Mo., assignor to M. L. Dodge, Newburyport, Mass. Pump top re-forming machine. 2,164,862; July 4.
Aluminum Company of America. (See Ganoe, John E., assignor.)
Aluminum Cooking Utensil Company, The. (See Gibson, Thomas H., assignor.)
Aluminum Company of America. (See Nighthart, George E., assignor.)
American Anode Inc. (See Beal, Carl L., assignor.)
American Anode Inc. (See Hansen, Merrill E., assignor.)
American Car and Foundry Company. (See Bitler, W. T., Evans, and McBride, assignors.)
American Car and Foundry Company. (See Ecoff, Francis A., assignor.)
American Car and Foundry Company. (See McBride, John J., assignor.)
American Car & Foundry Company. (See Shields, Robert A., assignor.)
American Car and Foundry Company. (See Udstad, Sigvald, assignor.)
American Car and Foundry Company. (See Willoughby, Victor, assignor.)
American Cyanamid Company. (See Cox, G. E., and McBurney, assignors.)
American Cyanamid Company. (See Ham, Garnet P., assignor.)
American Cystoscope Makers, Inc. (See Kleine, Arnold, assignor.)
American Egka Corporation. (See Sunderland, Alfred E., assignor.)
American Hard Rubber Company. (See Carson, Oswald B., assignor.)
American Hard Rubber Company. (See Crawford, Robert J., assignor.)
American Lurgi Corporation. (See Wendeborn, Helmut, assignor.)
American Machine & Foundry Company. (See Podmore, Arthur, assignor.)
Ammendola, Giuseppe, Trieste, Italy. Tube cleaning device. 2,165,120; July 4.
Amstutz, Albert, La Rue, Ohio. Feeder. 2,165,121; July 4.
Anderson, Ralph L., assignor to Deere & Company, Moline, Ill. Pick-up device. 2,165,088; July 4.
Anderson, W. Charles, Linden, Calif. Nut hulling and washing unit. 2,164,372; July 4.
Anderson, William C., Fort Peck, Mont. Welding rod. 2,165,022; July 4.
Andrews, Edward D. (See Alderfer, Sterling W., assignor.)
Andrie, Michael B., assignor to W. B. Jarvis Company, Grand Rapids, Mich. Door handle assembly. 2,164,486; July 4.
Andrieu, Robert. (See Urtel, R., and Andrieu.)
Andrieu, Robert, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Electromagnetic cathode ray deflection apparatus. 2,164,891; July 4.

Anthes Force Oiler Company. (See Larson, William B., assignor.)
Appleford Paper Products, Ltd. (See Lawson, Albert R., assignor.)
Appleyard, Kenelm C., Birtley, and S. D. Pollitt, Newcastle-on-Tyne, assignor of one-third to The Birtley Company Limited, Birtley, England. Vibratory chute. 2,164,676; July 4.
Armstrong, George C. (See Ellis, D., and Armstrong.)
Ashbery, Ray S., Itacha, N. Y. Cabinet. 2,165,122; July 4.
Ashley, Carlyle M., Maplewood, assignor, by mesne assignments, to Carrier Corporation, Newark, N. J. Refrigerating apparatus and method. 2,164,761; July 4.
Atlantic Refining Company, The. (See Marks, Ernest M., assignor.)
Atlas Powder Company. (See Brown, Kenneth R., assignor.)
Atlas Powder Company. (See Brown, K. R., and Bucy, assignors.)
Aull, Watson P., St. Louis, Mo. Reinforced box. 2,165,023; July 4.
Autocall Company. (See Harrington, James R., assignor.)
Autogas Corporation. (See Furlong, Francis A., assignor.)
Autogiro Company of America. (See Bennett, James A. J., assignor.)
Automatic Shifters, Inc. (See Hey, Henry W., assignor.)
Aviation Manufacturing Corporation. (See Rogers, John P., assignor.)
Ayliffe, Harry, London, England. Garden tool. 2,164,373; July 4.
Babcock, Earl, Evanston, Ill., assignor to The Hoover Company, North Canton, Ohio. Fluid circulator. 2,164,863; July 4.
Backhouse, Headley T., London, England. Lubricator. 2,164,794; July 4.
Backhouse, Headley T., London, England. Sheet-feeding machine. 2,165,172; July 4.
Bäckström, Sigurd M., Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,164,730; July 4.
Baer, Mabel M., et al. (See Norman, Joseph T., assignor.)
Bagpak, Inc. (See Cundall, Robert N., and L. A.)
Bahner, Carl T. (See McKee, R. H., and Bahner.)
Bahr, Gustave F., Fairfield, assignor to Casco Products Corporation, Bridgeport, Conn. Brake lever extension. 2,164,692; July 4.
Bailey Meter Company. (See Dickey, P. S., and Shannon, assignors.)
Bailey Meter Company. (See Luhrs, John F., assignor.)
Balsch, Carl F., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake mechanism. 2,164,866; July 4.
Baker, John G., and F. C. Rushing, Pittsburgh, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Indicating balancing machine. 2,165,024; July 4.
Baker-Raulang Company, The. (See Hawkins, Paul E., assignor.)
Baldwin, Millard W., Jr., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Safety circuits for cathode ray tubes. 2,165,025; July 4.
Ballantine, Stuart, Mountain Lakes, N. J. Contact microphone. 2,165,123; July 4.
Ballantine, Stuart, Mountain Lakes, N. J. Throat microphone. 2,165,124; July 4.
Banke, Marcel, assignor to Cold Chest Holding Company, Detroit, Mich. Cold chest. 2,164,677; June 4.
Banks, George B., Billericay, England, assignor to Radio Corporation of America. Secondary emission tube. 2,164,892; July 4.
Bankston, Percy, Crossville, Tenn. Fountain comb. 2,164,442; July 4.
Barber-Colman Company. (See Drake, George F., assignor.)
Bargen, William J., Waukegan, Ill. Article of furniture. 2,165,125; July 4.
Barker, Alfred C., Hurstpier point, England. Sound reproducing device. 2,164,374; July 4.
Barnes, Blaskeslee, assignor to Chemical Construction Corporation, New York, N. Y. Impregnation of bauxite. 2,165,173; July 4.
Barnes, Walter C., Lake Bluff, and H. W. Keevil, Highland Park, Ill. Method and apparatus for detecting flaws in metallic bodies. 2,164,302; July 4.
Barrett, Edward L., La Grange, assignor to Utah Radio Products Company, Chicago, Ill. Electromagnetic vibratory motor. 2,164,632; July 4.

Barrett, Edward L., La Grange, assignor to Utah Radio Products Company, Chicago, Ill. Electric motor. 2,164,633; July 4.
Barrett, Edward L., La Grange, assignor to Utah Radio Products Company, Chicago, Ill. Sheet material joint. 2,164,634; July 4.
Bascom, Henry M., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,164,731; July 4.
Batchelder, Nelson A., West Barrington, R. I. Textile drafting means. 2,164,443; July 4.
Baughman, George W., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,164,893; July 4.
Baumann, Walter, and O. Hemmann, Leuna, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Apparatus for the production of gaseous unsaturated hydrocarbons. 2,164,762; July 4.
Bausch & Lomb Optical Company. (See Dittmer, Arthur F., assignor.)
Bausch & Lomb Optical Company. (See Levin, Aaron A., assignor.)
Bausch & Lomb Optical Company. (See Trautmann, Otto E., assignor.)
Beal, Carl L., Cuyahoga Falls, assignor to American Anode Inc., Akron, Ohio. Manufacture of rubber thread. 2,165,089; July 4.
Beaudry, Marcel, Irasburg, Vt. Smoking pipe. 2,164,982; July 4.
Bechtold, Reuben E., assignor, by mesne assignments, to S. F. Bowser and Company, Incorporated, Fort Wayne, Ind. Fluid dispensing system. 2,164,441; July 4.
Beckjord, William E., St. Paul, Minn. Transmission. 2,164,487; July 4.
Beckwith, Bernard J., assignor to George H. Meiser, Chicago, Ill. Aligner. 2,164,853; July 4.
Beebe, Alan P., assignor to Peninsular Grinding Wheel Co., Detroit, Mich. Grinding wheel. 2,164,560; July 4.
Behrens, Walter A., New York, assignor to Ideal Fastener Corporation, Brooklyn, N. Y. Top stop for slide fasteners. 2,164,488; July 4.
Belcher Hinge Company. (See Reinhardt, Louis W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Bascom, Henry M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Baldwin, Millard W., Jr., assignor.)
Bell Telephone Laboratories, Incorporated. (See Burton, Everett T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Hartley, Ralph V. L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mathes, Robert C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Norwine, Andrew C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Nyquist, Harry, assignor.)
Bell Telephone Laboratories, Incorporated. (See Och, Henry G., assignor.)
Bendix Aviation Corporation. (See Keiper, Francis P., assignor.)
Bendix Aviation Corporation, (See Urfer, Adolf, assignor.)
Bendix Products Corporation. (See Houston, George F., assignor.)
Benedek, Elek K., Bucyrus, Ohio. Hydraulic pump or motor. 2,165,126; July 4.
Benner, Raymond C., and J. C. McMullen, assignors to The Carborundum Company, Niagara Falls, N. Y. Production of refractory material. 2,164,635; July 4.
Benner, Russell E. (See Rand, J. H., Jr., and Benner.)
Bennett, James A. J., Esher, England, assignor by mesne assignments to Autogiro Company of America. Rotary blade or wing for aircraft. 2,164,678; July 4.
Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Electric cut out. 2,164,983; July 4.
Bentley, William G., Houston, Tex. Snatch block. 2,164,894; July 4.
Berg, Adolph. (See Koepke, William F., assignor.)
Berg, Alfred J., Portsmouth, N. H., and J. O. Huse, U. S. Navy. Tool for cutting or turning. 2,164,303; July 4.
Berg, Charles E., Watertown, N. Y. Match holder. 2,164,795; July 4.
Bergstrom, William A., Chicago, Ill., assignor to Renchtite Spring Nut Company, San Francisco, Calif. Nut and making the same. 2,164,304; July 4.
Bergstrom, William A., Chicago, Ill., assignor to Renchtite Spring Nut Company, San Francisco, Calif. Nut lock blank. 2,164,305; July 4.
Berke, Aaron, Brooklyn, N. Y. Handle box. 2,164,561; July 4.
Berliner, Henry A., Washington, D. C., assignor, by mesne assignments, to Engineering and Research Corporation, Riverdale, Md. Variable pitch propeller. 2,164,489; July 4.
Berliner, Henry A., Washington, D. C., assignor, by mesne assignments, to Engineering and Research Corporation, Riverdale, Md. Variable pitch propeller. 2,164,490; July 4.
Bernard, David G., assignor, by mesne assignments, to Donald M. Carter, Chicago, Ill. Device for delivering paper to printing presses. 2,165,026; July 4.
Berndt, Eric M., assignor to The Berndt-Maurer Corp., New York, N. Y. Film guiding means. 2,164,375; July 4.
Berndt, Karl, Tilsit-on-the-Memel, Germany. Device for simultaneously spinning and twisting artificial silk threads. 2,164,376; July 4.
Berndt-Maurer Corp., The. (See Berndt, Eric M., assignor.)
Bernstein, Harry L., et al. (See Coughlin, Thomas B., assignor.)
Berryhill, Joseph B., Combes, Tex. Plow. 2,164,693; July 4.
Bertossa, Harry A., Detroit, assignor of one-half to J. R. Weeks, Birmingham, Mich. Heater. 2,164,377; July 4.
Berwick, Jay W., Woodcliff, N. J., assignor to Raylite Trading Company. Lighting device. 2,164,378; July 4.
Betz, Paul L., Baltimore, Md., and S. Karrer, Washington, D. C., assignors to Consolidated Gas Electric Light and Power Company of Baltimore, Baltimore, Md. Thermoelectrically controlled device. 2,164,694; July 4.
Bezault, Georges A. J., Juvisy-sur-Orge, assignor to Cartier, Societe Anonyme, Paris, France. Extensible jewel. 2,164,562; July 4.
Bird, Byron M., Columbus, Ohio, assignor, by mesne assignments, to The Traylor Vibrator Company. Method and apparatus for feeding coal. 2,164,796; July 4.
Birdseye Electric Company. (See Macksoud, Michel E., assignor.)
Birkigt, Marc, Bois-Colombes, France. Percussion fuse for projectiles. 2,164,797; July 4.
Birtley Company Limited, The. (See Appleyard, K. C., and Pollitt, assignors.)
Bitler, William T., M. S. Evans, and R. P. McBride, Berwick, Pa., assignors to American Car and Foundry Company, New York, N. Y. Wheel grinding machine. 2,164,491; July 4.
Bitter, Francis, Cambridge, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Producing magnetic sheet. 2,165,027; July 4.
Black-Clawson Company, The. (See Bridge, Adam E., assignor.)
Black, Edward R., Chicago, Ill. Building covering. 2,164,636; July 4.
Blackhawk Mfg. Co. (See Pfauser, Edward M., assignor.)
Bliss, E. W., Company. (See Cannon, Earl, assignor.)
Blomberg, Martin P., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Cooling of railway traction motors. 2,164,444; July 4.
Blood, Harold L., assignor to The Heald Machine Company, Worcester, Mass. Hone. 2,164,867; July 4.
Blood, Harold L., assignor to The Heald Machine Company, Worcester, Mass. Method of and apparatus for honing workpieces. 2,164,868; July 4.
Blumberg, Arthur O. (See Morgan, C. H., and Blumberg.)
Blumlein, Alan D., Ealing, London, and J. Hardwick, West Drayton, assignors to Electrical & Musical Industries Limited, Hayes, Middlesex, England. Electric signal transmission line. 2,164,492; July 4.
Blumlein, Alan D., Ealing, London, England, assignor to Electric and Musical Industries Limited, Hayes, England. Television and the like system employing cathode ray tubes. 2,165,028; July 4.
Blunk, Heinrich. (See Prüss, M., and Blunk.)
Boeing Aircraft Company. (See Sanders, John C., assignor.)
Böhringer, Rolf, and R. Germar, Goppingen, Germany. Speed regulating mechanism. 2,164,306; July 4.
Bolcom, Winfred G., Duluth, Minn. Somersaulter. 2,164,563; July 4.
Bonnar-Vawter Fanform Company. (See Doty, R. B., and Ross, assignors.)
Booth, Earl C., and E. Ludlow, Columbus, and R. C. Root, Indianapolis, assignors to Noblitt-Sparks Industries, Inc., Columbus, Ind. Heater. 2,164,854; July 4.
Borg-Warner Corporation. (See Ingersoll, Roy C., assignor.)
Borg-Warner Corporation. (See Nutt, Harold, assignor.)
Borg-Warner Corporation. (See Reed, Harold V., assignor.)
Borg-Warner Corporation. (See Swennes, Benjamin A., assignor.)
Boswau, Hans P., Galion, Ohio. Supervisory control system. 2,164,379; July 4.
Botts, Alexander, New York, N. Y. Fountain stencil brush. 2,164,895; July 4.
Bourland, Langford T., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. External contact to copper-oxide rectifiers. 2,165,029; July 4.
Bousquet, Euclid W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Pest control composition. 2,165,030; July 4.
Bowser, S. F., and Company. (See Bechtold, Reuben E., assignor.)
Boyd, Donald A., Detroit, Mich. Seal. 2,164,380; July 4.
Boyle, Edward R. (See Cardarelli, Alfred R., assignor.)
Bozeman, John F., Houston, Tex. Wire line rotatable circulating head. 2,164,606; July 4.
Brace, Porter H., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Apparatus for the manufacture of electrical apparatus. 2,165,031; July 4.

Bradley, William T., Philadelphia, Pa. Electrical connector. 2,164,381; July 4.
Brady, Francis E., Jr., Connersville, Ind. Pump. 2,164,869; July 4.
Brandes, Marjorie H., Chicago, Ill. Nightgown. 2,164,896; July 4.
Brandt, Friederich H. A., New York, N. Y. Discharge device. 2,164,307; July 4.
Branen, Daniel R., New York, N. Y. Traveling bag. 2,164,493; July 4.
Bransky, David W., assignor to Standard Oil Company, Chicago, Ill. Recovery of sulphur dioxide from acid sludges. 2,164,637; July 4.
Braun, Alfred, Cologne, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Process of and apparatus for manufacturing helices. 2,164,679; July 4.
Brewer, Charles A., Noroton Heights, Conn., assignor of one-half to P. J. Kury, Arverne, N. Y. Control mechanism for motor vehicles. 2,164,897; July 4.
Bridge, Adam E., Franklin, assignor to The Black-Clawson Company, Hamilton, Ohio. Paper machinery. 2,164,445; July 4.
Bridges, Frank R., Needham, and F. E. Weld, Newton, assignors to The Gamewell Company, Newton Upper Falls, Mass. Fire alarm system. 2,165,174; July 4.
Brinck, Max, Berlin-Steglitz, and W. Grönebaum, Berlin-Wilmersdorf, assignors to the firm Tobis Tonbild Syndikat Aktiengesellschaft, Berlin, Germany. Adjusting device for photographic and cinematographic objectives. 2,164,695; July 4.
Brink, Winfield S., assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Tire rim. 2,164,984; July 4.
Britton, Edgar C., H. S. Nutting, and P. S. Petrie, assignors to The Dow Chemical Company, Midland, Mich. Corrosion inhibitor. 2,164,564; July 4.
Britton, Edgar C., H. S. Nutting, and P. S. Petrie, assignors to The Dow Chemical Company, Midland, Mich. Rust inhibitor. 2,164,565; July 4.
Brooze, Johannes J., and H. van Driel, Delft, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Electrical pressure detector. 2,164,638; July 4.
Brower, Philip, Caledonia, Mich. Grain planter. 2,164,639; July 4.
Brown, John L., Verona, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Attachment of steel feet to cast iron frames. 2,165,032; July 4.
Brown, Kenneth R., Tamaqua, Pa., and E. H. Bucy, Stamford, Conn., assignors to Atlas Powder Company, Wilmington, Del. Oil, grease, and hydrocarbon resistant material. 2,164,494; July 4.
Brown, Kenneth R., Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del. Oil, grease, and hydrocarbon resistant material. 2,164,495; July 4.
Brown, Le Roy O., assignor to Justrite Manufacturing Company, Chicago, Ill. Electric lantern. 2,164,898; July 4.
Brown, Raymond S., Columbus, Ind. Loose-leaf binder. 2,164,496; July 4.
Bryant Heater Company, The. (See Roberts, E. W., and Ferrall, assignors.)
Buck, Monroe, Ferndale, Mich. Portable air conditioner. 2,164,763; July 4.
Buckley, John P., Washington, D. C. Combination typewriter-card puncher. 2,164,696; July 4.
Buckley, John P., Washington, D. C. Combined typewriter and punch recorder. 2,164,697; July 4.
Buckley, John P., Washington, D. C. Multiple card punching machine and checking system. 2,164,698; July 4.
Bucy, Edmond H. (See Brown, K. R., and Bucy.)
Buena Vista Iron Company. (See Fox, B., and Ericson, assignors.)
Bunting, Robert L., Danville, Ill. Air conditioning apparatus for motor vehicles. 2,164,566; July 4.
Burger, Dallas O. (See Katz, S. H., and Burger.)
Burke, James P., Knoxville, Tenn. Nut. 2,164,382; July 4.
Burke, Richard L., Swarthmore, assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa. Apparatus for fabricating structural elements. 2,164,567; July 4.
Burton, Everett T., Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetic device. 2,164,383; July 4.
Buschbeck, Werner, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Wide band amplifier. 2,164,899; July 4.
Cabot Shops, Inc. (See Swanson, Arthur, assignor.)
Calco Chemical Company, The. (See Laury, Napoleon A., assignor.)
Calvert, William C. (See Winkelmann, H. A., Moffett, and Calvert.)
Campbell, Charles H., Kent, Ohio. Hydrolytic decomposition product of the epidermis of hogs, etc. 2,164,798; July 4.
Campbell, John C., assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Dynamic balancer for machine tools. 2,164,900; July 4.
Cannon, Earl, Rockville Centre, assignor to E. W. Bliss Company, Brooklyn, N. Y. Press combination having means for avoiding jamming. 2,164,640; July 4.
Cannon Mills Company. (See Messer, Edward, assignor.)
Carborundum Company, The. (See Benner, R. C., and McMullen, assignor.)
Carborundum Company, The. (See Scutt, Arthur G., assignor.)
Cardarelli, Alfred R., assignor of one-fourth to E. R. Boyle, Clear Lake, Iowa. Sign. 2,164,985; July 4.
Carey, Philip, Manufacturing Company, The. (See Fasold, George A., assignor.)
Carnegie, Herbert S., Stafford, assignor to The English Electric Company Limited, London, England. Motor control system. 2,165,127; July 4.
Carpenter Steel Company, The. (See De Long, B. H., and Greene, assignors.)
Carpentieri, Vincenzo, Turin, Italy. Tomato and fruit peeling machine. 2,164,384; July 4.
Carrier Corporation. (See Ashley, Carlyle M., assignor.)
Carson, Oswald B., Scarsdale, N. J., assignor to American Hard Rubber Company, New York, N. Y. Comb. 2,164,385; July 4.
Carter, Donald M. (See Bernard, David G., assignor.)
Carter, Donald M. (See Ross, Warren A., assignor.)
Cartier, Societe Anonyme. (See Bezault, Georges A. J., assignor.)
Casco Products Corporation. (See Bahr, Gustave F., assignor.)
Centerval, Hugo A., Brooklyn, assignor to Manly Corporation, New York, N. Y. Power output control. 2,164,308; July 4.
Chalfin, Harry, New York, N. Y. Button. 2,164,386; July 4.
Chamberlin, Jess D., Detroit, Mich. Steering column bushing. 2,164,497; July 4.
Cheesman, Richard D., assignor to Traylor Engineering and Manufacturing Company, Allentown, Pa. Rotary kiln. 2,165,128; July 4.
Chemical Construction Corporation. (See Barnes, Blakeslee, assignor.)
Chemische Fabrik Grunau, Landshoff & Meyer Akt. Ges. (See Nassau, Max, assignor.)
Cheney Weeder Company. (See Van Patten, Louis C., assignor.)
Chicago Cardboard Company. (See Ziemmerman, Henry, assignor.)
Chicago Coin Machine Manufacturing Company. (See Koci, Jerry C., assignor.)
Chilo, Paul, Chicago, Ill. Lamp shade mounting means. 2,164,901; July 4.
Chipman Chemical Company. (See Chipman, R. N., and Seibert, assignors.)
Chipman, Ralph N., Plainfield, and F. J. Seibert, Bound Brook, assignors to Chipman Chemical Company, Inc., Bound Brook, N. J. Parasiticidal compound and producing the same. 2,164,568; July 4.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Locating the teeth of rotary cutting tools. 2,164,569; July 4.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Cutting tool. 2,164,570; July 4.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Cutting tool. 2,164,571; July 4.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Tool. 2,164,572; July 4.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Tool. 2,164,573; July 4.
Christman, John M., assignor to Packard Motor Car Company, Detroit, Mich. Tool. 2,164,574; July 4.
Cincinnati Grinders Incorporated. (See Campbell, John C., assignor.)
Cincinnati Grinders Incorporated. (See Herfurth, Charles, assignor.)
Cincinnati Grinders Incorporated. (See Sassen, B., Ernst, and Hans, assignors.)
Cincinnati Milling Machine Co., The. (See Horlacher, Herman, assignor.)
Cincinnati Milling Machine Company. (See Nenninger, L. F., and Rochm, assignors.)
Claflin, Leon R. (See Martin, H. C., and Claflin.)
Clamp, James T., Miami, Fla. Machine to cut or trim asphalt roads. 2,164,446; July 4.
Clark, Beryl F., Centerville, Iowa, and V. D. Humbert, Memphis, Mo. Garment hanger. 2,165,129; July 4.
Clark, Frank M., and R. A. Ruscetta, Pittsfield, Mass., assignors to General Electric Company. Resinous compositions and capacitors, containing the same. 2,165,090; July 4.
Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Electric capacitor and compositions therefor. 2,165,091; July 4.
Clark, James D'A., Swarthmore, Pa. Apparatus for sampling liquids. 2,164,498; July 4.
Clark, Richard U., Fort Wayne, Ind. Electron discharge device. 2,164,699; July 4.
Clarke, Frederick A., Wembley, England. Coupling. 2,164,447; July 4.
Clavier, André G., Paris, France, assignor to International Standard Electric Corporation, New York, N. Y. Electron discharge tube. 2,164,905; July 4.
Claypoole, Walter, Glenham, assignor to The Texas Company, New York, N. Y. Making metal covered gaskets. 2,164,764; July 4.
Cleveland Pneumatic Tool Company, The. (See Van Sittert, P., and Engeln, assignors.)

Cleveland Rock Drill Company, The. (See Renfer, John E., assignor.)
Coe, Mayne R., Washington, D. C. Increasing the drying properties of oil. 2,165,130; July 4.
Coffman, Roscoe A., Pittsburgh, Pa. Device for discharging explosive or combustible charges. 2,164,700; July 4.
Cohen, Harry, assignor to The Perfection Steel Body Company, Galion, Ohio. Stake body for vehicles. 2,164,448; July 4.
Cohen, Theodore A., Chicago, Ill., assignor to Wheelco Vacuum Products Company. Wheatstone bridge relay arrangement. 2,164,701; July 4.
Colberg, Henry J., Glendale, Long Island, N. Y. Safety device for extension ladders. 2,164,575; July 4.
Cold Chest Holding Company. (See Banke, Marcel, assignor.)
Cole, Arthur D., Minneapolis, Minn. Damper control. 2,164,607; July 4.
Coleman, Gilbert R., Cheektowaga, N. Y. Making journal bearings. 2,164,902; July 4.
Collins, Geoffrey, Weybridge, England. Testing of lenses or other image producing optical devices. 2,164,576; July 4.
Collins, Arthur A., Cedar Rapids, Iowa. Shaft-positioning device. 2,164,309; July 4.
Colonial Broach Company. (See Hart, William A., assignor.)
Consiglio, José L., New York, N. Y. Tennis racket. 2,164,903; July 4.
Consolidated Gas Electric Light and Power Company of Baltimore. (See Betz, P. L., and Karrer, assignors.)
Consolidated Steel Corp., Ltd. (See Rhodes, Aaron D., assignor.)
Cook, William E., West New Brighton, N. Y. Insulated wire and making same. 2,164,904; July 4.
Cooper, James. (See McChesney, D., and Cooper.)
Cornelius, Richard T., Minneapolis, Minn. Ventilating device. 2,164,608; July 4.
Coughlin, Thomas B., Framingham Center, Mass., assignor, by mesne assignments, to H. L. Bernstein and J. A. Riley, co-partners trading as J. A. Riley & Co., New York, N. Y. Fabric. 2,164,499; July 4.
Courmettes, Henry A., Brooklyn, N. Y. Biplanar ophthalmic lens die. 2,165,131; July 4.
Cover, Eugene W., Van, Ark. Chimney cowl. 2,164,987; July 4.
Cox, George E., Niagara Falls, N. Y., and W. G. McBurney, Niagara Falls, Ontario, Canada, assignors to American Cyanamid Company, New York, N. Y. Treatment of crude calcium cyanamid. 2,164,986; July 4.
Crane Co. (See Zinkil, Roy H., assignor.)
Crawford, Robert J., Jersey City, N. J., assignor to American Hard Rubber Company, New York, N. Y. Hair curling device. 2,164,387; July 4.
Creamery Package Mfg. Company, The. (See Larsen, Olaf, assignor.)
Croco, Carlton W. (See Rossander, S. S., and Croco.)
Crosley Corporation, The. (See Money, Roland H., assignor.)
Crouse, Ira. (See Wood, W. H., and Trautman, assignors.)
Cruikshank, James M., Pilot Mound, Manitoba, Canada. Tractor harrow hitch. 2,164,577; July 4.
Cummins, Arthur B., and L. B. Miller, Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y. Siliceous product and making the same. 2,164,500; July 4.
Cundall, Lincoln A. (See Cundall, Robert N. and L. A.)
Cundall, Luta L., administratrix. (See Cundall, Robert N. and L. A.)
Cundall, Robert N., deceased, by L. L. Cundall, administratrix, Lackawanna, and L. A. Cundall, Rochester, assignors to Bagpak, Inc., New York, N. Y. Apparatus for filling, sewing, and sealing bags. 2,164,501; July 4.
Cundall, Robert N., deceased, by L. L. Cundall, administratrix, Lackawanna, and L. A. Cundall, Rochester, assignors to Bagpak, Inc., New York, N. Y. Apparatus for closing and sealing filled bags. 2,164,502; July 4.
Curtin, Marion T., assignor to Germ-Proof Cap, Inc., Rochester, N. Y. Capping bottles. 2,165,132; July 4.
Cusick, Arthur, Youngstown, Ohio. Wallpaper steamer supporting device. 2,164,609; July 4.
Cuthbertson, Leonard J., Girard, Kans. Automatic starting device for internal combustion engines. 2,165,133; July 4.
Cutler-Hammer, Inc. (See Hodgson, Howard E., assignor.)
Czeija, Oskar. (See Lierg, Friedrich, assignor.)
Daimler-Benz Aktiengesellschaft. (See Dauben, Joseph, assignor.)
Dame, Charles V., Lanark, Ill. Circuit breaker. 2,164,388; July 4.
Daniels, Claude H., Wellesley Hills, Mass. Shoe vamp. 2,165,092; July 4.
Dauben, Joseph, Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Chassis of motor-driven vehicles. 2,165,033; July 4.
Daudt, Herbert W., and C. W. Hannum, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Disubstituted guanidine salts of metalliferous azo dyes. 2,165,034; July 4.
Davenport, Margaret M., Los Angeles, Calif. Bag. 2,164,641; July 4.
Davidson, Glenn, Aurora, Ill. Method and apparatus for making cigarette mouthpieces. 2,164,702; July 4.
Davies, James O., et al. (See Doyle, Percy A., assignor.)
Davies, Stanley B., assignor to Royer Foundary and Machine Co., Kingston, Pa. Sand elevating and treating apparatus. 2,164,799; July 4.
Davis, John F. A., Hamilton, Mass. Abrasive article. 2,164,800; July 4.
Day, James. (See Dreisbach, R. R., and Day.)
De Blasi, Charles P., Noank, Conn. Clamshell bucket. 2,164,988; July 4.
Deere & Company. (See Anderson, Ralph L., assignor.)
Deere & Company. (See McAfee, James H., assignor.)
Delaval-Crow, Thomas C., Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Lubricating device. 2,164,449; July 4.
Dell, James A. (See Watkins, E. G., and Dell.)
De Long, Berton H., and O. V. Greene, near Reading, assignor to The Carpenter Steel Company, Reading, Pa. Heat resisting alloy steel. 2,165,035; July 4.
Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Apparatus for hardening. 2,164,310; July 4.
De Salardi, Albert B., Wilkinsburg, assignor, by mesne assignments, of one-half to W. E. Volkwein, Pittsburgh, Pa. Torque limiting device. 2,164,870; July 4.
Deserno, Peter, and M. Messner, Berlin, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Television apparatus. 2,164,906; July 4.
Desroche, Numa J., assignor to G. M. Desroche, Reserve, La. Water closet flushing apparatus. 2,164,503; July 4.
Dettwyler, William. (See Rintelman, W. L., and Dettwyler.)
Deutsche Hydrierwerke Aktiengesellschaft. (See Schrauth, W., and Stickdorn, assignors.)
De Vries, Abraham, Amsterdam, Netherlands. Stay for windows or similar closures. 2,164,732; July 4.
Dick, A. B., Company. (See Stephenson, Paul A., assignor.)
Dickerson, Bert A., assignor to Faries Manufacturing Company, Decatur, Ill. Combined socket cover and flexible joint. 2,164,389; July 4.
Dickerson, Bert A., assignor to Faries Manufacturing Company, Decatur, Ill. Joint for dental brackets. 2,164,390; July 4.
Dickey, Paul S., and J. F. Shannon, Cleveland, Ohio, assignors to Bailey Meter Company. Control system. 2,165,175; July 4.
Dienner, John A. (See Samson, Herbert S., assignor.)
Dillon, William W., New York, N. Y. Buckle. 2,164,733; July 4.
Dimmick, Glenn L., Audubon, N. J., assignor to Radio Corporation of America. Sound reproducer. 2,164,734; July 4.
Dimmick, Glenn L., Erlton, N. J., assignor to Radio Corporation of America. Push-pull optical system. 2,164,735; July 4.
Dittmer, Arthur F., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Corrective lens system. 2,164,801; July 4.
Ditzler, Frank U. (See Erline, T. H., Ditzler, and Koch.)
Dodge, Adiel Y., South Bend, Ind. Variable speed transmission. 2,164,504; July 4.
Dodge, Milton L. (See Altvater, Adolf H., assignor.)
Dodge, Milton L. (See Dove, G. H., and Swain, assignors.)
Donovan, Hugh H., Montgomery, Ala. Flexible parking sign. 2,164,680; July 4.
Dons, Eddie M., and D. B. Mapes, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Separating wax from oils. 2,164,391; July 4.
Doran, James A., Providence, R. I. High tension spark device. 2,164,311; July 4.
Dornvan Corporation, The. (See Van Dorn, Herbert E., assignor.)
Dortort, Isadore K., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric-valve converting system. 2,164,765; July 4.
Doty, Raymond B., Cleveland, and F. A. Ross, Lakewood, assignors to Bonnar-Vawter Fanform Company, Inc., Cleveland, Ohio. Stitcher. 2,164,802; July 4.
Douden, William L., New York, N. Y., assignor to Radio Corporation of America. Sound picture fader. 2,164,736; July 4.
Dove, George H., and R. P. Swain, Leicester, England, assignors to M. L. Dodge, Newburyport, Mass. Machine for shaping shoe uppers. 2,164,864; July 4.
Dow Chemical Company, The. (See Britton, E. C., Nutting, and Petrie, assignors.)
Dow Chemical Company, The. (See Dreisbach, R. R., and Day, assignors.)
Dow Chemical Company, The. (See Slagh, Harold R., assignor.)
Doyle, Percy A., Webster Groves, assignor of one-fourth to D. S. Rainey and one-half to J. O. Davies, St. Louis, Mo. Spark plug. 2,164,578; July 4.
Drader, Joseph C., Detroit, Mich., assignor to Michigan Tool Company. Constructing gear finishing tools. 2,164,642; July 4.
Drader, Joseph C., Detroit, Mich., assignor to Michigan Tool Company. Cutting tapered spline. 2,164,643; July 4.

Drake, George F., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Control for temperature regulating systems and the like. 2,164,312; July 4.

Draving, Arthur M., assignor to Hugh E. Eby, Inc., Philadelphia, Pa. Electrical terminal prong. 2,164,766; July 4.

Dreisbach, Robert R., and J. Day, assignors to The Dow Chemical Company, Midland, Mich. Separating ortho- and para-amino-ethyl-benzenes. 2,165,165; July 4.

Duarte J., Jesus M., El Paso, Tex. Mechanical toy. 2,164,313; July 4.

Dube, John E. (See Giesler, J. V., and Dube.)

Dunn, William C. (See Denneen, F. S., and Dunn.)

Du Pont, E. I., de Nemours & Company. (See Bousquet, Euclid W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Daudt, H. W., and Hamum, assignors.)

Du Pont, E. I., de Nemours & Company. (See Edwards, David H., assignor.)

Du Pont, E. I., de Nemours & Company. (See Harmon, Edward F., assignor.)

Du Pont, E. I., de Nemours & Company. (See Hull, Richard O., assignor.)

Du Pont, E. I., de Nemours & Company. (See Jordan, H., and Rossander, assignors.)

Du Pont, E. I., de Nemours & Company. (See Lubs, Herbert A., assignor.)

Du Pont, E. I., de Nemours & Company. (See Marschall, Arnold, assignor.)

Du Pont, E. I., de Nemours & Company. (See Prahl, M. A., and Rintelman, assignors.)

Du Pont, E. I., de Nemours & Company. (See Prahl, Milton A., assignor.)

Du Pont, E. I., de Nemours & Company. (See Renfroe, James D., assignor.)

Du Pont, E. I., de Nemours & Company. (See Rintelman, W. L., and Dettwyler, assignors.)

Du Pont, E. I., de Nemours & Company. (See Rossander, S. S., and Croco, assignors.)

Du Pont, E. I., de Nemours & Company. (See Rossander, Swanie S., assignor.)

Du Pont, E. I., de Nemours & Company. (See Schulze, John F. W., assignor.)

Duraffourg, Max, New York, N. Y. Thread guide and adapter therefor. 2,164,803; July 4.

Duryea, Otho C., Waterbury, Conn. Journal box lid. 2,164,644; July 4.

Duryea, Otho C., Waterbury, Conn. Journal box lid. 2,164,645; July 4.

Dvorak, Josef, et al. (See Strnžík, František, assignor.)

Dyckerhoff, Hanns, Munich, Germany. Manufacture of thrombin. 2,164,804; July 4.

Eastman Kodak Company. (See Green, Newton B., assignor.)

Eaton, Wyman, and J. C. Hayes, assignors to Freyn Engineering Company, Chicago, Ill. Hot blast valve. 2,165,036; July 4.

Eby, Hugh H., Inc. (See Draving, Arthur M., assignor.)

Eckert, Wilhelm, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Chromiferous dyestuffs and preparing them. 2,164,767; July 4.

Eclipse Aviation Corporation. (See McRae, D. C., and Franklin, assignors.)

Ecoff, Francis A., Richmond Heights, Mo., assignor to American Car and Foundry Company, New York, N. Y. Air conditioning system. 2,164,579; July 4.

Ecton, Clarence B., Slater, Mo. Roller skate. 2,164,805; July 4.

Edahl, Knute, Chicago, Ill. Metallic wall structure. 2,164,646; July 4.

Edwards, David H., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Packaging. 2,164,505; July 4.

Edwards, Edward P., Larchmont, assignor to Oldetyme Distillers, Inc., New York, N. Y. Combined closure and dispensing device. 2,164,314; July 4.

Edwards, Edward P., Larchmont, assignor to Oldetyme Distillers, Inc., New York, N. Y. Combined closure and dispensing device. 2,164,315; July 4.

Elane, Halvor O., Washington Island, Wis. Bolt cushioning device. 2,165,093; July 4.

Eichenlaub, Adelbert C., Dearborn, assignor to Peerless Cement Corporation, Detroit, Mich. Cement composition for mason's mortar. 2,164,871; July 4.

Eickman, Walter C., Dayton, assignor to Ha&rris-Seybold-Potter Company, Cleveland, Ohio. Die press with roller feed. 2,164,806; July 4.

Eisenwerk Kaiserslauter, et al. (See Frank, K., and Osterloh, assignors.)

Electric and Musical Industries Limited. (See Blumlein, Alan D., assignor.)

Electrical & Musical Industries Limited. (See Blumlein, A. D., and Hardwick, assignors.)

Electrolux Corporation. (See Ellis, Philip B., assignor.)

Ellis, Arthur L., Deep River, assignor to The Waterbury Tool Company, Waterbury, Conn. Power transmission. 2,164,647; July 4.

Ellis, Delbert, and G. C. Armstrong, Wilkinsburg, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electromagnet. 2,165,037; July 4.

Ellis, Philip B., Ridley Park, Pa., assignor to Electrolux Corporation, Dover, Del. Suction cleaning apparatus. 2,164,392; July 4.

Elmore, Jasper G., Macon, Ga. Hydraulic force pump. 2,164,580; July 4.

Elsey, Warren R., Merion, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Coupling means for locomotives and the like. 2,164,703; July 4.

Emerson Electric Mfg. Co., The. (See Weber, Victor, assignor.)

Engeln, John H. (See Van Sittert, P., and Engeln.)

Engels, William H., assignor to Merck & Co., Inc., Rahway, N. J. Disinfecting process. 2,164,316; July 4.

Engineering and Research Corporation. (See Berliner, Henry A., assignor.)

English Electric Company Limited, The. (See Carnegie, Herbert S., assignor.)

Enrich, Henry A., New York, N. Y. Container. 2,164,506; July 4.

Ericson, Charles E. (See Fox B., and Ericson.)

Erline, Tobias H., F. U. Ditzler, and H. B. Koch, Lititz, Pa. Apparatus for forming shoes of the prewelted type. 2,164,989; July 4.

Ernst, Hans. (See Sassen, B., Ernst and Haas.)

Eshbaugh, Jesse E., and N. Walker, Flint, assignors to General Motors Corporation, Detroit, Mich. Radiator pressure cap. 2,164,450; July 4.

Espe, Werner, Siemensstadt, Berlin, assignor to Siemens and Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Discharge tube. 2,164,507; July 4.

Esson, Edwin, assignor to Kalamazoo Stove & Furnace Company, Kalamazoo, Mich. Hot air heater. 2,165,038; July 4.

Evans, Edward W., Brooklyn, N. Y. Fishhook. 2,164,807; July 4.

Evans, Elliott A., assignor to C. C. Wakefield & Company Limited, London, England. Lubricating oil. 2,164,393; July 4.

Evans, James M., Detroit, Mich., assignor to Grade Crossing Guard Corp., Memphis, Tenn. Crossing protective system. 2,164,610; July 4.

Evans, Morris S. (See Bitler, W. T., Evans, and McBride.)

Evans, Robert D., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. System for controlling voltage of rectifiers. 2,165,039; July 4.

Evans, L. B., Son, Company. (See Wilkinson, E. W., and Hurd, assignors.)

Evans, William E., Waterbury, assignor to The Waterbury Lock and Specialty Company, Milford, Conn. Pocket lighter. 2,164,872; July 4.

Everett, Benjamin A., Tulsa, Okla. Golf game. 2,164,808; July 4.

Everett, Thomas H. (See Henry, E. W., and Everett.)

Everson, Hazel A., Louisville, Ky. Music chart. 2,164,873; July 4.

Ewald, George R., Pittsburgh, Pa. Thermoelectric rotary razor. 2,164,581; July 4.

Exner, Donald W., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Battery-taper relay. 2,165,040; July 4.

Faber, Herbert A., Cincinnati, Ohio. Compensating-duct system. 2,164,394; July 4.

Fairbanks, Morse & Co. (See Peters, Thomas B. R., assignor.)

Fairmont Railway Motors, Inc. (See Protzeller, Harry W., assignor.)

Falkner, Arthur B., Nashville, Tenn. Fishhook disgorging device. 2,164,907; July 4.

Faries Manufacturing Company. (See Dickerson, Bert A., assignor.)

Fasold, George A., Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company. Making a siding strip. 2,164,508; July 4.

Fast, Marion L., assignor to General Motors Corporation, Detroit, Mich. Internal combustion engine with blower. 2,164,451; July 4.

Federal Telegraph Company. (See Royden, George T., assignor.)

Felten & Guilleaume Carlswerk Actien-Gesellschaft. (See Braun, Alfred, assignor.)

Fernsch Aktiengesellschaft. (See Schwartz, Erich, assignor.)

Fernsch Aktien-Gesellschaft. (See Strilbig, Heinrich, assignor.)

Ferrall, Thomas L. (See Roberts, E. W., and Ferrall.)

Ferrari, André, Saint-Victor-sur-Rhins, France. Manufacture of a parachute surface. 2,164,704; July 4.

Ferris, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Garage door construction. 2,164,648; July 4.

Fette, Frank J., Tampa, Fla. Heat exchange device. 2,165,094; July 4.

Fiat Società Anonima. (See Valletta, Vittorio, assignor.)

Fibreboard Products Inc. (See Goodyear, Charles H., assignor.)

Filberich, Ludwig, Berlin-Siemensstadt, O. Schiele, Berlin-Charlottenburg, and K. Seethaler, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Control system for converters. 2,165,041; July 4.

Filter Tips Limited. (See Lubbock, Isaac, assignor.)

Firestone Tire & RubberCompany, The. (See Brink, Winfield S., assignor.)

Fisch, Willi, Riehen, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of melamine. 2,164,705; July 4.

Fisher, Frank L. (See Foster, B. N., and Fisher.)

Fisher, Raymond C., Tacoma, Wash. Photoelectric musical instrument. 2,164,809; July 4.

Fitch, Benjamin F., Greenwich, Conn., assignor to Motor Terminals Inc., Cleveland, Ohio. Demountable freight container. 2,164,317; July 4.

Flaxman, Marcellus T., Wilmington, assignor to Union Oil Company of California, Los Angeles, Calif. Metal polish. 2,164,810; July 4.

Fleming, James S. B., Ardrossan, and R. C. Payn, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limted. Combustion train elements and fuse for blasting and pyrotechnic and the like purposes, and preparation thereof. 2,164,509; July 4.

Flint, Harry M., and J. E. Moe, assignors to The Gates Rubber Company, Denver, Colo. Teat-cup lining. 2,164,706; July 4.

Flint, James A. (See Francis E. V., and Flint.)

Florence Manufacturing Company. (See Florence, Saulia O., assignor.)

Florence, Saulia O., assignor to Florence Manufacturing Company, Chicago, Ill. Mail box. 2,164,855; July 4.

Flores, Pedro G., Marianao, Cuba. Copy holder carriage. 2,165,042; July 4.

Floss, Carl W., Detroit, Mich. Automatic honing mechanism and control means therefor. 2,164,811; July 4.

Fodor, Nicholas, Wanwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Internal combustion engine. 2,165,176; July 4.

Follen, James H., assignor, by mesne assignments to Midway Chemical Co., Chicago, Ill. Mop holder. 2,164,395; July 4.

Forbes, Gertrude K., Pasadena, Calif. Spoon holder for saucepans. 2,164,649; July 4.

Ford, Frank R., Small Heath, Birmingham, England. Duplicating machine. 2,164,707; July 4.

Ford, Homer P., Forest Hills, assignor to The Gillord Corporation, New York, N. Y. Making bearings. 2,164,737; July 4.

Ford, Luther, & Company. (See Ford, Robert E., assignor.)

Ford, Robert E., assignor to Luther Ford & Company, Minneapolis, Minn. Machine for applying films to pouring orifices of bottle containers. 2,164,908; July 4.

Foresman, Robert A., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Combustion apparatus. 2,164,510; July 4.

Forges de Strasbourg (Societe Anonyme). (See Fould, Maurice, assignor.)

Fortin, Joseph O., Ottawa, Ontario, Canada. Combination fire alarm and sprinkler head. 2,164,611; July 4.

Foster, Benjamin N., Keene, N. H., and F. L. Fisher, Wauwatosa; said Fisher assignor to Allen-Bradley Company, Milwaukee, Wis. Driving and control mechanism for turrets. 2,164,396; July 4.

Fould, Maurice, assignor to Forges des Strasbourg (Societe Anonyme), Paris, France. Metallic plate-element for building parts. 2,164,681; July 4.

Fountain, Lawrence L., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Voltage regulator. 2,165,043; July 4.

Fox, Benjamin, Wollaston, and C. E. Ericson, South Braintree, Mass., assignors to Buena Vista Iron Company. Apparatus for evaporating and distilling. 2,165,044; July 4.

Francis, Earle V., and J. A. Flint, Columbus, Ohio, assignors to The Traylor Vibrator Company. Constant-capacity feeder. 2,164,812; July 4.

Frank, Karl, Bad Soden in Taunus, and F. Osterloh, Frankfort-on-the-Main-Hochst, assignors of one-half to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, and one-half to Eisenwerk Kaiserslautern, Kaiserslautern, Germany. Preparing enamels. 2,165,134; July 4.

Franklin, John C. (See McRae, D. C., and Franklin.)

Franklin, Thomas B. (See Knight, H. P., and Franklin.)

Frantz Manufacturing Co. (See Ferris, William D., assignor.)

Fraser, Ethelbert M., deceased, New York, N. Y., by D. Fraser, administratrix, New York, N. Y., assignor to Murray & Flood, Inc., New York, N. Y. Inductor winding. 2,164,738; July 4.

Fraser, Dorothy, administratrix. (See Fraser, Ethelbert M.)

Frechette, John S., Providence, R. I. Hydropneumatic jack. 2,165,095; July 4.

Frechette, John S., Providence, R. I. Serial multiway valve. 2,165,096; July 4.

Freeman, Benjamin W., Cincinnati, Ohio. Die. 2,164,452; July 4.

Freeman Daughaday Company. (See Moore, Robert, assignor.)

Frey, Charles N. (See Gore, H. C., Kirby, and Frey.)

Freyn Engineering Company. See Eaton, W., and Hayes, assignors.)

Fridén, John H., Maplewood, assignor to The Sun Tube Corporation, Hillside, N. J. Apparatus for conveying and drying tubes. 2,164,768; July 4.

Fuller, Rufus W., Deerfield, assignor to Production Machine Company, Greenfield, Mass. Grinding and polishing machine. 2,165,097; July 4.

Fulton Sylphon Company, The. (See Giesler, J. V., and Dube, assignors.)

Furlong, Francis A., assignor to Autogas Corporation, Chicago, Ill. Heating system. 2,164,511; July 4.

Furlong, Francis A., River Forest, assignor to Autogas Corporaton, Chicago, Ill. Heating system. 2,164,512; July 4.

Gachon, Albert, assignor to Societe de Paris & du Rhone, Lyon, France. System for starting internal combustio engines or the like by means of electric motors. 2,164,909; July 4.

Gaebel, Alfred, Berlin, and A. Katsch, Berlin-Lichterfelde, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany, Electronic discharge tube. 2,164,910; July 4.

Gaebel, Arthur H., Larchmont, N. Y. Optical contrast meter. 2,164,513; July 4.

Gamewell Company, The. (See Bridges, F. R., and Weld, assignors.)

Ganoe, John E., New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa. Extrusion. 2,164,397; July 4.

Garner, Lloyd P., Newark, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Wire electrode. 2,165,135; July 4.

Garside, Elena May, Spokane, Wash. Calibrated self-supporting sanitary spool. 2,165,045; July 4.

Garverick, Ralph A., assignor to The Marion Metal Products Company, Marion, Ohio. Valve construction. 2,164,911; July 4.

Gaskins, Frank W., Norwood, assignor to The General Spring Company, Cincinnati, Ohio. Coil spring tester. 2,164,453; July 4.

Gates Rubber Company, The. (See Flint, H. M., and Moe, assignors.)

General Aniline Works, Inc. (See Eckert, Wilhelm, assignor.)

General Aniline Works, Inc. (See Platz, C., and Rosenbach, assignors.)

General Aniline Works, Inc. (See Winter, C., and Roh, assignors.)

General Electric Company. (See Bennett, Ralph S., assignor.)

General Electric Company. (See Clark, Frank M., assignor.)

General Electric Company. (See Clark, F. M., and Ruscetta, assignors.)

General Electric Company. (See Krejci, R. F., and Zabel, assignors.)

General Electric Company. (See Lincks, George F., assignor.)

General Electric Company. (See Rasmusson, Ernest J., assignor.)

General Electric Company. (See Sohles, Leroy P., assignor.)

General Electric Company. (See Wünsche, Otto, assignor.)

General Electric Company Limited, The. (See Johnson, William A., assignor.)

General Heating Equipment Company. (See Thornton, Bertrand P., assignor.)

General Motors Corporation. (See Blomberg, Martin P., assignor.)

General Motors Corporation. (See Delaval-Crow, Thomas C., assignor.)

General Motors Corporation. (See Eshbaugh, J. E., and Walker, assignors.)

General Motors Corporation. (See Fast, Marion L., assignor.)

General Motors Corporation. (See Peters, Floyd H., assignor.)

General Motors Corporation. (See Randolph, D. W., and Mitchell, assignors.)

General Motors Corporation. (See Schjolin, Eric O., assignor.)

General Motors Corporation. (See Smith, Harry F., assignor.)

General Motors Corporation. (See Smith, Lucian B., assignor.)

General Motors Corporation. (See Wilson, Ernest E., assignor.)

General Motors Corporation. (See Yantis, Roy C., assignor.)

General Spring Company, The. (See Gaskins, Frank W., assignor.)

Germar, Ruthard. (See Böhringer, R., and Germar.)

Germ-Proof Cap, Inc. (See Curtin, Marion T., assignor.)

Gerosa, Lawrence, and G. P. Wagner, Bronx, assignors to Speed-Dump, Inc., New York, N. Y. Transporting and dumping vehicle. 2,164,739; July 4.

Gerosa, Lawrence, and G. P. Wagner, Bronx, assignors to Speed-Dump, Inc., New York, N. Y. Transporting and dumping vehicle. 2,164,740; July 4.

Gibson, Thomas H., assignor to The Aluminum Cooking Utensil Company, New Kensington, Pa. Baking assembly. 2,164,582; July 4.

Giesler, Jean V., and J. E. Dube, assignors to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 2,165,136; July 4.

Gillord Corporation, The. (See Ford, Homer P., assignor.)

Giröz, Henri E., Boulogne-Billancourt, assignor to International Standard Electric Corporation, New York, N. Y. Tension control device or the like. 2,164,912; July 4.
Gleason Works. (See Wildhaber, Ernest, assignor.)
Glover, John, Chicago, Ill., assignor, by mesne assignments, to Midway Chemical Co., Jersey City, N. J. Flexible mop. 2,164,398; July 4.
Goldstein, Charles, Chicago, Ill. Filing spindle. 2,164,514; July 4.
Goldthwaite, Robert S., assignor to Rutenber Electric Company, Marion, Ind. Heating plate device. 2,164,650; July 4.
Gooch, Guy W., Cedarville, Calif. Buck rake. 2,164,583; July 4.
Goodboby, Edmund M., Bellerose, assignor to Intertype Corporation, Brooklyn, N. Y. Metal pot for slug casting machines. 2,165,177; July 4.
Goodchild, Frank D., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Indirectly heated cathode. 2,164,913; July 4.
Goodyear, Charles H., Stockton, assignor to Fibreboard Products Inc., San Francisco, Calif. Display stand. 2,164,454; July 4.
Gore, Herbert C., Scarsdale, G. Kirby, Yonkers, and C. N. Frey, Scarsdale, assignors to Standard Brands Incorporated, New York, N. Y. Enzyme preparation. 2,164,914; July 4.
Goserud, Chester O., St. Paul, Minn. Sash holder. 2,164,515; July 4.
Gottschalk, John W., Mfg. Company. (See Grater, Sylvester W., assignor.)
Götz, Frantisek, Prague, assignor to the firm Limited Company formerly the Skoda Works, Pilsen, Prague, Czechoslovakia. Frictional transmission gearing. 2,164,516; July 4.
Government of the United States of America. (See Katz, S. H., and Burger, assignors.)
Govers, Francis X., Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill. Solvent refining of hydrocarbon oil. 2,164,769; July 4.
Grade Crossing Guard Corp. (See Evans, James M., assignor.)
Graham, William. (See Knox, W. H., and Graham.)
Granger, Elmer E., Reno, Nev. Coffee leacher. 2,164,399; July 4.
Grater, Sylvester W., assignor to John W. Gottschalk Mfg. Company, Philadelphia, Pa. Making a resilient metallic bunch. 2,165,178; July 4.
Graunke, Mabel E., Westpoint, Nebr. Card holder. 2,164,318; July 4.
Graves, John R., Bergenfield, N. J., assignor, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y. Stoker. 2,165,098; July 4.
Green, Frederick L., Irvington, N. Y. Device for the removal of burs from metal surfaces. 2,164,741; July 4.
Green, Newton B., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter. 2,165,137; July 4.
Greene, Omar V. (See De Long, B. H., and Greene.)
Greenstein, George, Nassau, N. Y. Shaving instrument and blade therefor. 2,165,046; July 4.
Gregory, Carl L., Washington, D. C. Composite photography. 2,164,770; July 4.
Greulich, Gerald G., Mount Lebanon, Pa. Bearing pile construction. 2,165,190; July 4.
Greve, Herman L., Hollis, assignor to International Mailing Tube and Wrapper Company, Long Island City, N. Y. Carton. 2,164,517; July 4.
Griffith-Hope Company. (See Hope, Samuel N., assignor.)
Griffith, Melvin J., Miami, Fla. Louver type window. 2,164,814; July 4.
Groeniger, William C., Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Water closet or defecator. 2,164,319; July 4.
Groeniger, William C., Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Combination seat and flush rim. 2,164,320; July 4.
Groeniger, William C., Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y. Defecator. 2,164,321; July 4.
Gronebaum, Willi. (See Brinck, M., and Grönebaum.)
Groskopf, Edwin O., Rutherford, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y. Making rubber compositions and the like. 2,164,400; July 4.
Gross, Howard H. (See McCarty, B. Y., and Gross.)
Grossarth, Albert A., La Grange, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Plank gib for power plate printing presses. 2,164,401; July 4.
Grubb, Gunnar, Stockholm, Sweden, assignor, by mesne assignments, to Sewel, Inc., New York, N. Y. Refrigeration. 2,165,138; July 4.
Gruening, William E., assignor to The Stacey Brothers Gas Construction Company, Cincinnati, Ohio. Sealing means for gas holders. 2,165,179; July 4.
Gualdoni, John C., Brentwood, Mo. Slicing and weighing machine. 2,165,047; July 4.
Guanella, Gustav, Zurich, Switzerland, assignor to Radio Patents Corporation, New York, N. Y. Electrical circuit. 2,164,402; July 4.
Gulf Research & Development Company. (See Kennedy, Harvey T., assignor.)
Gulliksen, Finn H., Wilkinsburg, assignor to Westinghouse Electric & Manufactring Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,165,048; July 4.
Gunther, Robert E., St. Paul, Minn. Electric culinary utensil. 2,164,813; July 4.
Gurney, D. A., Company. (See Hatch, Frank A., assignor.)
Guthrie, Robert G., and O. J. Wilbor, assignors to Peoples Gas By-Products Corporation, Chicago, Ill. Reforming gases. 2,164,403; July 4.
Haas, Frederick C. (See Sassen, B., Ernst and Haas.)
Hadaway, John B., Swampscott, Mass. Bait holder. 2,164,708; July 4.
Haddon, Murray R. (See Lyons, M. F., and Kaplan, assignors.)
Hadjisky, Joseph N., Birmingham, Mich. Insulating means. 2,164,815; July 4.
Hahn, Frank R., Decatur, Ill. Building construction and building element. 2,164,322; July 4.
Hahn, Otto W., San Francisco, Calif., assignor to Industrial Research Laboratories, Ltd. Automatic gas and water regulator. 2,164,323; July 4.
Hall, Charles P., and C. R. Tucker, Pearson, Okla. Shock absorber for walking beams. 2,164,709; July 4.
Hall & McChesney, Inc. (See McChesney, D. and Cooper, assignors.)
Hall, Willard C., Jr., assignor to Thomas H. Hearn, Los Angeles, Calif. Induction timer. 2,164,915; July 4.
Ham, Garnet P., Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y. Blue print coating. 2,165,166; July 4.
Hammond, John H., Jr., Gloucester, Mass. Torpedo. 2,164,916; July 4.
Hammond, John H., Jr., Gloucester, Mass. Display sign. 2,164,917; July 4.
Hammond, John H., Jr. (See Pfister, Arthur, assignor.)
Hammond, Leonard. (See Rueff, R. C., and Hammond.)
Hanlon-Waters, Inc. (See Waters, Millard F., assignor.)
Hanna, Clinton R., Pittsburgh, and K. A. Oplinger, Verona, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Voltage regulating system. 2,165,049; July 4.
Hannum, Chester W. (See Daudt, H. W., and Hannum.)
Hansen, Merrill E., assignor to American Anode Inc., Akron, Ohio. Manufacture of perforate rubber sheets. 2,165,099; July 4.
Harb, Alfred, Nyack, N. Y. Toy airplane. 2,165,050; July 4.
Hard, Merrill W., Los Angeles, Calif. Theatre chair. 2,164,918; July 4.
Hardin, Andrew M., Miami, Fla. Fountain for duplicating printing machines. 2,165,139; July 4.
Harding, Arthur T., Audubon, N. J., assignor to Radio Corporation of America. Electrolytic capacitor. 2,164,742; July 4.
Hardy, Arthur C., Wellesley, Mass., assignor to Interchemical Corporation, New York, N. Y. Color reproduction. 2,165,167; July 4.
Hardy, Arthur C., Wellesley, Mass., assignor to Interchemical Corporation, New York, N. Y. Color reproduction. 2,165,168; July 4.
Hardwick, John. (See Blulein, A. D., and Hardwick.)
Harmon, Edward F., Flushing, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Web guiding device. 2,164,919; July 4.
Harney, Frank J., Lynn, Mass. Latch. 2,164,584; July 4.
Harrington, James R., Oak Park, Ill., assignor, by mesne assignments, to The Autocall Company, Shelby, Ohio. Electric signaling, supervising, and recording system. 2,164,324; July 4.
Harrington, Wallace A., Spokane, Wash. Connector. 2,164,612; July 4.
Harris, David A., New Kensington, Pa. Milk can. 2,164,816; July 4.
Harris-Seybold-Potter Company. (See Eickman, Walter C., assignor.)
Hart, Franklin L., Boston, Mass. Shaft indexing device. 2,164,455; July 4.
Hart, William A., Detroit, Mich., assignor to Colonial Broach Company. Lubricating ways. 2,164,518; July 4.
Hart, William A., Detroit, Mich., assignor to Colonial Broach Company. Broaching cutter for stub ball joint. 2,164,874; July 4.
Hartley, Ralph V. L., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,164,325; July 4.
Harvel Corporation, The. (See Harvey, Mortimer T., assignor.)
Harvey, Leo M., Los Angeles, Calif. Paper holder. 2,164,817; July 4.
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Composition of matter and methods and steps of making and using the same. 2,164,326; July 4.
Harvey, Mortimer T., East Orange, N. J., assignor to The Harvel Corporation. Compositions of matter and methods and steps of making and using the same. 2,165,140; July 4.
Haskin, Byron C., Beverly Hills, Calif.; assignor to Warner Bros. Pictures, Inc., New York, N. Y. Miniature ship. 2,164,651; July 4.

Hatch, Frank A., South Hanson, assignor to D. A. Gurney Company, Whitman, Mass. Electroplating. 2,164,710; July 4.
Hawkins, Paul E., Lakewood, assignor to The Baker-Raulang Company, Cleveland, Ohio. Utility truck. 2,164,327; July 4.
Hay, Harold R., assignor to Monsanto Chemical Company, St. Louis, Mo. Insect repellent. 2,164,328; July 4.
Hayes, John C. (See Eaton, W., and Hayes.)
Hayes, Stanley W., assignor to Haynes Track Appliance Company, Richmond, Ind. Scotch block. 2,164,404; July 4.
Hayes Track Appliance Company. (See Hayes, Stanley W., assignor.)
Hayner, Richard C., Bloomington, Ill. Scaffolding. 2,164,519; July 4.
Heald Machine Company, The. (See Blood, Harold L., assignor.)
Hearn, Thomas H. (See Hall, Willard C., Jr., assignors.)
Hecht, Fred W., Clairton, Pa. Ram. 2,165,141; July 4.
Hemmann, Otto. (See Baumann, W., and Hemmann.)
Henderson, Forest L., Stamford, Conn., assignor to All America Cables, Incorporated, New York, N. Y. Multiple channel telegraph system. 2,164,920; July 4.
Henkel & Cie, G. m. b. H. (See Hentrich, W., and Köhler, assignors.)
Henroteau, Francois C. P., Esneux, Liege, Belgium, assignor to Radio Corporation of America, New York, N. Y. Electrical image transmission. 2,164,520; July 4.
Henry, Ernest W., Battle Creek, Mich., and T. H. Everett, Canton, Ohio. Supporting and elevating automobiles in freight cars. 2,164,456; July 4.
Hentrich, Winfrid, Dusseldorf-Reisholz, and R. Köhler, Dusseldorf, assignors to Henkel & Cie., G. m. b. H., Dusseldorf-Holthausen, Germany. Adhesive. 2,164,585; July 4.
Hercules Powder Company. (See Landon, George K., assignor.)
Herfurth, Charles, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 2,164,875; July 4.
Hering, Edward, Beverly, assignor to United States Pipe and Foundry Company, Burlington, N. J. Flexible pipe joint. 2,165,051; July 4.
Hering, Edward, Beverly, assignor to United States Pipe and Foundry Company, Burlington, N. J. Flexible pipe joint. 2,165,052; July 4.
Hershey Manufacturing Company, et al. (See Purdie, David J., assignor.)
Hettrick, Ames B., Piney River, Va., assignor, by mesne assignments to Virginia Chemical Corporation. Purifying phosphoric acid. 2,165,100; July 4.
Hey, Henry W., assignor to Automatic Shifters, Inc., Richmond, Va. Gear shifting mechanism for motor vehicles. 2,164,990; July 4.
Heyer, Don, and G. T. Pfleger, Los Angeles, Calif., assignors to U. S. Electrical Motors, Inc. Variable speed power unit. 2,164,818; July 4.
Hicks, De Witt., Waco, Tex., and V. L. Smithers, Akron, Ohio. Tire. 2,164,819; July 4.
Hintze, Rudolf, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Atkiengesellschaft, Berlin-Siemensstadt, Germany. Device for facilitating the starting of refrigerating apparatus of the compressor type. 2,164,405; July 4.
Hodgson, Howard E., Wauwatosa, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electromagnetic brake. 2,164,521; July 4.
Hoe, R., & Co. (See Zuckerman, Adolph M., assignor.)
Hoff, Carlton L., York, Pa. Motor vehicle control. 2,164,921; July 4.
Hoffoss, John E., assignor to Reed Roller Bit Company, Houston, Tex. Core drilling apparatus. 2,164,652; July 4.
Hollmann, Hans E., assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Cross field control tube. 2,164,922; July 4.
Holmberg, Einar O., Wauwatosa, assignor to A. O. Smith Corporation, Milwaukee, Wis. Ladle and supporting the same. 2,165,053; July 4.
Holophane Company. (See Rolph, Thomas W., assignor.)
Hoover Company, The. (See Babcock, Earl, assignor.)
Hope, Samuel N., Wauwatosa, assignor to Griffith-Hope Company, West Allis, Wis. Conical cup dispenser. 2,164,406; July 4.
Horlacher, Herman, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Hydraulic vane motor. 2,164,876; July 4.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Self-parking windshield wiper. 2,165,180; July 4.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Motor vehicle accessory system. 2,165,181; July 4.
Houston, George F., Hamilton, Ohio, assignor to Bendix Products Corporation, South Bend, Ind. Clutch control mechanism. 2,164,923; July 4.
Howard, Cecil D., Swarthmore, assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa. Internal combustion engine. 2,164,522; July 4.
Howell Electric Motors Company. (See Sinnett, John B., assignor.)

Hubbell, Dean S., assignor to H. H. Robertson Company, Pittsburgh, Pa. Composite structure and making the same. 2,164,457; July 4.
Hudson, George E., Buffalo, N. Y. Acoustic material. 2,165,101; July 4.
Huelster, Otto J., assignor to Scovill Manufacturing Company, Waterbury, Conn. Kick-out device for fastener attaching machines. 2,164,743; July 4.
Hull, Richard O., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electroplating. 2,164,924; July 4.
Hullegård, Erik W. (See Alexandersson, H. V., and Hullegård.)
Humbert, Vallie D. (See Clark, B. F., and Humbert.)
Hurd, George D. (See Wilkinson, E. W., and Hurd.)
Huse, John O. (See Berg, A. J., and Huse.)
Huth, Fritz, Berlin-Johannistahl, Germany. Blade mounting for aircraft. 2,164,744; July 4.
I. G. Farbenindustrie Aktiengesellschaft. (See Baumann, W., and Hemmann, assignors.)
I. G. Farbenindustrie Aktiengesellschaft, et al. (See Frank, K., and Osterloh, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schoeller, C., and Nuesslein, assignors.)
Ideal Fastener Corporation. (See Behrens, Walter A.)
Illinois Tool Works. (See Olson, Carl G., assignor.)
Imperial Chemical Industries Limited. (See Fleming, J. S. B., and Payn, assignors.)
Indian Refining Company. (See Govers, Francis X., assignor.)
Industrial Research Laboratories, Ltd. (See Hahn, Otto W., assignor.)
Ingersoll, Roy C., Oak Park, assignor to Borg-Warner Corporation, Chicago, Ill. Forming metal parts. 2,164,523; July 4.
Ingrés, Jack G., Detroit, Mich., assignor to Vaco Products, Inc., Jersey City, N. J. Speed controlled switch. 2,164,991; July 4.
Interchemical Corporation. (See Hardy, Arthur C., assignor.)
Interchemical Corporation. (See Wurzburg, Francis L., Jr., assignor.)
International Mailing Tube and Wrapper Company. (See Greve, Herman L., assignor.)
International Standard Electric Corporation. (See Clavier, André G., assignor.)
International Standard Electric Corporation. (See Giroz, Henri E., assignor.)
International Standard Electric Corporation. (See Goodchild, Frank D., assignor.)
International Standard Electric Corporation. (See Smith, Clyde, assignor.)
International Standard Electric Corporation. (See Stockton, K. E., and Jammer, assignors.)
Intertype Corporation. (See Goodbody, Edmund M., assignor.)
Isbell, Arnold J., Pensacola, Fla., assignor of one-half to M. E. A. Isbell, Chicago, Ill. System for parking vehicles. 2,164,992; July 4.
Isbell, Mary E. A. (See Isbell, Arnold J., assignor.)
Jackman, Fred W., Beverly Hills, Calif., assignor to Warner Brothers Pictures, Inc., New York, N. Y. Apparatus for treating cinematographic film. 2,164,653; July 4.
Jacobson, Wilhelm L., Libby, Mont. Lip exerciser. 2,164,458; July 4.
Jammer, Jacob S. (See Stockton, K. E., and Jammer.)
Jarchow, Otto, Scheessel, Germany. Dust pan and collector. 2,164,407; July 4.
Jarvis, W. B., Company. (See Andrie, Michael B., assignor.)
Jean, Bernard H., Bay City, Mich. Attachment for electric razors. 2,164,820; July 4.
Jeffreys, Charles R., McKeesport, Pa. Safety shield. 2,165,142; July 4.
Jenkins, George O., Company. (See Kimball, Richard H., assignor.)
Jewett, Clifford L., Minneapolis, assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Roofing granules. 2,164,329; July 4.
Joa, Curt G., Inc. (See Joa, Curt G., assignor.)
Joa, Curt G., assignor to Curt G. Joa, Inc., Sheboygan Falls, Wis. Manufacturing sanitary napkins. 2,164,408; July 4.
Johns-Manville Corporation. (See Cummins, A. B., and Miller, assignors.)
Johnson, Elmer L. (See Prosser, J. G., and Johnson.)
Johnson, Vinson L., Mount Vernon, N. Y. Fine grinding. 2,164,409; July 4.
Johnson, William A., Birkdale, assignor to The General Electric Company Limited, London, England. Apparatus for comparing or measuring the diffuse reflection of light from surfaces. 2,165,054; July 4.
Jordan, Henry, and S. S. Rossander, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dye. 2,164,524; July 4.
Justrite Manufacturing Company. (See Brown, Le Roy O., assignor.)
Kadavy, Godfrey J., Omaha, Nebr. Instrument for drawing blood. 2,164,711; July 4.
Kafka, Wilhelm, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Dry rectifier plant. 2,165,055; July 4.

Kalamazoo Stove & Furnace Company. (See Esson, Edwin, assignor.)
Kalischer, Philip R., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Drawing small diameter wires. 2,165,056; July 4.
Kaplan, Brand. (See Lyons, M. F., and Kaplan.)
Karrer, Sebastian. (See Betz, P. L., and Karrer.)
Karrick, Lewis C., Salt Lake City, Utah. Coal treating process and apparatus. 2,165,143; July 4.
Katcher, Morris, New York, N. Y. Fluid operated switch. 2,164,821; July 4.
Katsch, Annemarie. (See Gaebel, A., and Katsch.)
Katz, Sidney H., Edgewood Arsenal, and D. O. Burger, Bel Air, Md., assignors to the Government of the United States of America, as represented by the Secretary of war. Fully-molded gas mask facepiece. 2,164,330; July 4.
Keevil, Henry W. (See Barnes, W. C., and Keevil.)
Kelper, Francis P., Washington, D. C., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,164,865; July 4.
Keith, Henry M., Spokane, Wash. Game apparatus. 2,164,682; July 4.
Keller, Charles G., Hyde Park, N. Y. Vehicle wheel. 2,164,772; July 4.
Kellner, Alexander S., New York, N. Y. Air conditioned smokehouse. 2,165,057; July 4.
Kelsey-Hayes Wheel Company. (See Balsch, Carl F., assignor.)
Kelsey-Hayes Wheel Company. (See Main, Frank L., assignor.)
Kelsey-Hayes Wheel Company. (See Moore, George E., assignor.)
Kelso, Harrison M., Jr., Evanston, assignor to Sears, Roebuck and Co., Chicago, Ill. Textile fabric. 2,164,925; July 4.
Kemmer, Frank R., Larchmont, N. Y., assignor to Magnesium Products, Inc., Wilmington, Del. Method of and apparatus for condensing. 2,164,410; July 4.
Kendall Company, The. (See Marshall, Harold T., assignor.)
Kendall, Marcus T., Long Beach, Calif., assignor to The Texas Company, New York, N. Y. Acid treatment of cracked distillates. 2,164,771; July 4.
Kennedy, Harvey T., Forest Hills, assignor to Gulf Research & Development Company, Pittsburgh, Pa. Treatment of wells. 2,164,459; July 4.
Kennedy, Joseph E., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y. Nozzle. 2,164,411; July 4.
Kennedy-Van Saun Mfg. & Eng. Corporation. (See Kennedy, Joseph E., assignor.)
Kentner, Carroll D., Collingswood, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Intermediate frequency amplifier. 2,164,745; July 4.
Kershaw, Arthur G., and N. G. Kershaw, London, England, assignors, by mesne assignments to The Union Switch & Signal Company, Swissvale, Pa. Electrically operated switch mechanism. 2,164,822; July 4.
Kershaw, Arthur G., London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa. Relay device. 2,164,823; July 4.
Kershaw, Norman G. (See Kershaw, Arthur G. and N. G.)
Kersting, Albert H., Los Angeles, Calif.; Nelle Frances Kersting, executrix of said Albert H. Kersting, deceased. Spring sash balance. 2,164,654; July 4.
Kersting, Nelle F., executrix. (See Kersting, Albert H.)
Kessler, Frederick C., Rutherford, N. J. Garment. 2,164,683; July 4.
Keys, Walter W., Pittsfield, Mass. Garment hanger. 2,164,525; July 4.
Kimball, Richard H., assignor to George O. Jenkins Company, Bridgewater, Mass. Dust guard. 2,165,102; July 4.
Kimmel, Joseph G., Sarasota, Fla. Injecting fuel into internal combustion engines. 2,164,684; July 4.
Kimmich, William, Flushing, N. Y., assignor to Radio Corporation of America. Optical system. 2,164,526; July 4.
Kingdon, Ralph H., assignor to Square D Company, Detroit, Mich. Mounting means for enclosed electric devices. 2,165,103; July 4.
Kingsbury, Harry T., Keene, N. H. Toy ladder truck. 2,164,460; July 4.
Kinn, Theodore P., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Coupling circuits. 2,165,058; July 4.
Kinyon, Brice W., Audubon, N. J. Manifolding. 2,164,685; July 4.
Kirby, George. (See Gore, H. C., Kirby, and Frey.)
Kirschbraun, Lester, assignor to The Patent and Licensing Corporation, N. York, N. Y. Shingle. 2,164,712; July 4.
Kleerup, Bertel J., Chicago, Ill. Stereopticon slide and producing same. 2,164,655; July 4.
Klein, Clarence J., Steubenville, Ohio. Strip guide for rolling mills. 2,165,104; July 4.
Kleine, Arnold, Flushing, assignor to American Cystoscope Makers, Inc., New York, N. Y. Catheter stylet. 2,164,926; July 4.
Knapp, William, Hollis, N. Y. Lighting fixture hanger. 2,164,527; July 4.
Knight, Herman P., and T. B. Franklin, Kansas City, Mo. Conveyer. 2,164,713; July 4.
Knotz, Alois, Graz, Austria. Money plate. 2,164,528; July 4.
Knowles, Edwin C., Beacon, assignor to The Texas Company, New York, N. Y. Dewaxing hydrocarbon oil. 2,164,773; July 4.
Knox, William H., and W. Graham, Philadelphia, Pa. Double duty binder. 2,164,746; July 4.
Koch, Harold B. (See Erline, T. H., Ditzler, and Koch.)
Koci, Jerry C., Berwyn, assignor to Chicago Coin Machine Manufacturing Company, Chicago, Ill. Game. 2,165,059; July 4.
Koepke, William F., Guttenberg, N. J., assignor of 30 percent to A. Berg, New York, N. Y. Portable electric head lamp. 2,164,529; July 4.
Kohler, Carl J., Kohler, Wis. Float valve. 2,164,927; July 4.
Köhler, Rudolf. (See Hentrich, W., and Köhler.)
Kohlhardt, George, Wauwatosa, Wis. Hopper. 2,164,824; July 4.
Kornblatt, James Z., Philadelphia, Pa. Beer dispensing apparatus. 2,164,714; July 4.
Köster, Paul E., Berlin-Siemensstadt, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Navigating apparatus for instruction purposes. 2,164,412; July 4.
Krainbill, Vernon M., Brooklyn, N. Y. Convertible furniture. 2,164,715; July 4.
Kreft, Walter W., Yetter, Iowa. Stock watering device. 2,164,716; July 4.
Krejci, Robert F., and W. P. Zabel, Cleveland Heights, Ohio, assignors to General Electric Company. Apparatus for manufacturing filaments. 2,165,105; July 4.
Kretschmer, Emil W., Shrewsbury, Mo. Refrigerant coil. 2,164,656; July 4.
Kritchevsky, Wolf, assignor to Rit Products Corporation, Chicago, Ill. Brushless shaving cream. 2,164,717; July 4.
Krueger, Theodore H., Shelton, Conn. Index tab or title protector. 2,164,928; July 4.
Krug, Carl F. H., Cincinnati, Ohio. Window-raising and lock-retracting means. 2,165,060; July 4.
Kucher, Andrew A., Dayton, Ohio. Fuel burner. 2,165,191; July 4.
Kuehn, Alfred, Wauwatosa, Wis. Spring wheel mounting for automotive vehicles. 2,164,413; July 4.
Kury, Philip J. (See Brewer, Charles A., assignor.)
Lack, Robert, Pomona, Calif. Tool. 2,164,825; July 4.
Lamb, Harold T. (See Watson, J., and Lamb.)
Landis, Daniel O., Upper Darby, Pa., assignor to Radio Corporation of America. Mount for sound reproducing optical systems. 2,164,747; July 4.
Landon, George K., assignor to Hercules Powder Company, Wilmintgon, Del. Nitrating methane. 2,164,774; July 4.
Langebein, Jacob F. (See Whitehead, R. H., and Langebein.)
Langwell, Herbert, Epsom, and J. F. Short, Ewell, England. Purification of impure noble metals. 2,164,826; July 4.
Larkwood Silk Hosiery Mills, Inc. (See Sachsenmaier, Ervin S., assignor.)
Larsen, Olaf, Oak Park, assignor to The Creamery Package Mfg. Company, Chicago, Ill. Filling machine. 2,164,530; July 4.
Larson, William B., Fort Madison, Iowa, assignor to Anthes Force Oiler Company, Flare. 2,164,613; July 4.
Laury, Napoleon A., Rockville Centre, N. Y., assignor to The Calco Chemical Company, Inc., Bound Brook, N. J. Purification of sulphur. 2,165,170; July 4.
Lavietes, David P., Brooklyn, N. Y. Cover structure for smoking pipes. 2,164,929; July 4.
Lawson, Albert R., assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada. Paper dispensing package. 2,165,106; July 4.
Lawson, Albert R., assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada. Package for dispensing paper sheets. 2,165,107; July 4.
Leavelle, A. B. (See Stannard, Benjamin F., assignor.)
LeBleu, Charles, Los Angeles, Calif. Scraper. 2,164,461; July 4.
Le Clair, Archile J., Plaistow, N. H. Air-conditioned shoe. 2,164,877; July 4.
Lee, John G., Farmington, assignor to United Aircraft Corporation, East Hartford, Conn. Control device for airplanes. 2,164,531; July 4.
Leinert, Wenzel W., New York, N. Y. Sundial. 2,164,532; July 4.
Leverenz, Humboldt W., Collingswood, N. J., assignor to Radio Corporation of America. Luminescent materials. 2,164,533; July 4.
Levering, Lee L., Tulsa, Okla. Display rack. 2,165,108; July 4.
Levin, Aaron A., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Optical system. 2,164,827; July 4.
Levy, Nat., New York, N. Y. Bracelet or the like. 2,164,657; July 4.
Lewis, Robert B., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Rate of strain indicator. 2,164,993; July 4.

Lierg, Friedrich, assignor of one-half to O. Czelja, Vienna, Austria. Reproducing sound records or talking motion pictures. 2,164,828; July 4.
Light, Robert F. (See Miller, G. E., and Light.)
Limited Company, formerly the Skoda Works. (See Götz, Frantisek, assignor.)
Lincks, George F., Pittsfield, Mass., assignor to General Electric Company. Electric cut-out. 2,164,994; July 4.
Line Material Company. (See Schultz, William O., assignor.)
Linman, Hjalmer A., Minneapolis, Minn. Line tightener and fastener. 2,164,995; July 4.
Lobdell, Alban J., Jr. (See Wilson, W. S., and Lobdell.)
Long, Albert R., Elmhurst, N. Y. Aircraft. 2,164,414; July 4.
Long, Ben T., assignor of one-half to B. A. Smith, Kings Mountain, N. C. Self-grinding flushing valve assembly. 2,164,996; July 4.
Loomis, Fred J., Rochester, N. Y., and E. W. Reynolds, Westfield, N. J., assignors to Radio Corporation of America. Sound head. 2,164,748; July 4.
Lorenz, C., Aktiengesellschaft. (See Deserno, P., and Messner, assignors.)
Lorenz, C., Aktiengesellschaft. (See Gaebel, A., and Katsch, assignors.)
Lorenz, C., Aktiengesellschaft. (See Scheppmann, Wilhelm, assignor.)
Lorenz, C., Aktiengesellschaft. (See Wiessner, Alfred, assignor.)
Loughridge, Matthew H., Bogota, N. J. Block system. 2,164,331; July 4.
Lubbock, Isaac, Hendon, London, assignor to Filter Tips Limited, London, England. Machine for making cigarettes. 2,165,144; July 4.
Lubrication Corporation. (See Taylor, George O., assignor.)
Lubrication Corporation, The. (See Tear, Harry R., assignor.)
Lubs, Herbert A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Reducing vat dyestuffs. 2,164,930; July 4.
Ludlow, Edmund. (See Booth, E. C., Ludlow, and Root.)
Ludwig, Leon R. (See Slepian, J., and Ludwig.)
Luhn, Hans P., North Tarrytown, N. Y. Holder for hosiery or the like. 2,164,534; July 4.
Luhrs, John F., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Measuring and controlling apparatus. 2,165,182; July 4.
Lutschg, Jerrold D., Inglewood, Calif. Rotary internal combustion engine. 2,164,462; July 4.
Lynn, Robert M., Altadena, Calif. Drier for photographic prints and the like. 2,164,614; July 4.
Lyon, Leon P., Miami Beach, Fla. Fuse indicator and puller. 2,164,658; July 4.
Lyons, Maurice F., and B. Kaplan, Cincinnati, Ohio, assignor of one-half to M. R. Haddon, Chicago, Ill. Pipe cleaner. 2,164,856; July 4.
MacCallum, Frank, Birmingham, assignor to Maxolite Holdings Limited, Kingsway, London, England. Producing elements for dry batteries. 2,165,061; July 4.
Maccarone, Fred, Brooklyn, N. Y. Shoemaking. 2,164,754; July 4.
MacClatchie, John W., Los Angeles, assignor to MacClatchie Manufacturing Company of California, Compton, Calif. Rotatable packer. 2,164,857; July 4.
MacClatchie Manufacturing Company of California. (See MacClatchie, John W., assignor.)
MacDesroche, G. M. (See Desroche, Numa J., assignor.)
Machlett Laboratories Incorporated. (See Machlett, Raymond R., assignor.)
Machlett, Raymond R., Riverside, assignor to Machlett Laboratories Incorporated, Springdale, Conn. X-ray apparatus. 2,164,997; July 4.
MacKay, John R., West Caldwell, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Communicating system. 2,165,062; July 4.
MacKay, John R., West Caldwell, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Communicating system. 2,165,063; July 4.
MacKay, John R., West Caldwell, assignor to Wallace & Tiernan Products, Inc., Belleville, N. J. Supervision of radio signaling system. 2,165,064; July 4.
Mackay Radio and Telegraph Company. (See Alford, Andrew, assignor.)
MacRobert, Harold B., Florence, Ontario, assignor of one-half to R. L. MacRobert, Toronto, Ontario, Canada. Windshield wiper. 2,164,829; July 4.
MacRobert, Roscoe L. (See MacRobert, Harold B., assignor.)
Macksoud, Michel E., Gloucester, Mass., assignor to Birdseye Electric Company. Apparatus for applying mirror surfaces to the interior of lamp bulbs. 2,164,332; July 4.
Mafera, Guy, Revere, Mass. Aligner. 2,164,615; July 4.
Magnesium Products, Inc. (See Kemmer, Frank R., assignor.)
Mahawash, Joseph, Keansburg, N. J. Game of skill. 2,165,145; July 4.
Main, Frank L., Birmingham, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Brake construction. 2,164,878; July 4.
Mallett, Hugh, Bradford, Ill. Fish lure. 2,164,415; July 4.
Maloff, Ioury G., Philadelphia, Pa., assignor to Radio Corporation of America. Cathode ray tube deflecting device. 2,164,931; July 4.
Manly Corporation. (See Centervall, Hugo A., assignor.)
Manley, Robert E., Yonkers, assignor to The Texas Company, New York, N. Y. Recovery of wax. 2,164,779; July 4.
Mann, Robert, Memphis, Tenn. Hopper and seed distributing mechanism for seed planters. 2,164,333; July 4.
Manny, Fred L., assignor to F. P. Rosback Company, Benton Harbor, Mich. Punching and cutting machine. 2,164,616; July 4.
Mapes, Dwight B. (See Dons, E. M., and Mapes.)
Marbon Corporation. (See Winkelmann, Herbert A., assignor.)
Marbon Corporation. (See Winkelmann, H. A., Moffett and Calvert, assignors.)
Marbury, Ralph E., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Welding system. 2,165,065; July 4.
Marhenkel, Erich, assignor to "Pertrix" Chemische Fabrik Aktiengesellschaft, Berlin, Germany. Galvanic battery. 2,164,755; July 4.
Marion Metals Products Company, The. (See Garverick, Ralph A., assignor.)
Marks, Ernest M., Lansdowne, assignor to The Atlantic Refining Company, Philadelphia, Pa. Production of motor fuel. 2,164,334; July 4.
Markush, Eugene A., Jersey City, and J. Miller, Newark, N. J., assignors to Pharma Chemical Corporation, New York, N. Y. Diphenyl-diamino acid compounds. 2,164,932; July 4.
Marschall, Arnold, Baden, Germany, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of cellulosic products. 2,164,416; July 4.
Marshall, Harold T., Sharon, assignor to The Kendall Company, Walpole, Mass. Curtain fabric. 2,164,998; July 4.
Martin, Eugene, Erie, Pa., assignor to The Standard Stoker Company, Incorporated. Conveyer for locomotive stokers. 2,165,109; July 4.
Martin, Henry C., Montclair, N. J., and L. R. Claflin, Scarsdale, assignors to Van Raalte Company, New York, N. Y. Stocking and making the same. 2,164,749; July 4.
Marvin, Robert, Richmond, Va. Brush. 2,164,617; July 4.
Mason, Haydn, New Hartford, N. Y. Treating material. 2,164,879; July 4.
Mason, Silas Co. (See Parker, L. F., and Myer, assignors.)
Master Separator and Valve Company. (See Weisgerber, Edwin C. R., assignor.)
Masters, Edwin G., assignor to M. J. Masters, San Diego, Calif. Powder dispenser. 2,164,618; July 4.
Masters, Mollie J. (See Masters, Edwin G., assignor.)
Mastic Asphalt Corporation. (See Snyder, Gilbert, assignor.)
Mather, Irwin E., Chicago, Ill. Range finder. 2,164,463; July 4.
Mathes, Robert C., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,164,335; July 4.
Maurel, Henry F., assignor to Maurel Investment Corporation, Providence, R. I. Baking fuel briquettes. 2,164,933; July 4.
Maurel Investment Corporation. (See Maurel, Henry F., assignor.)
Maxolite Holdings Limited. (See MacCallum, Frank, assignor.)
Maybach-Motorenbau Gesellschaft mit beschränkter Haftung. (See Meyer, Gustav, assignor.)
McAdams, Harry, assignor to Nolde and Horst Company, Reading, Pa. Knitting machine and method of producing stockings thereon. 2,164,337; July 4.
McAfee, James H., Falmouth, Maine, assignor to Deere & Company, Moline, Ill. Control device for dump rakes. 2,165,110; July 4.
McBride, Jesse E., Highland Park, assignor to Palmer-Bee Company, Detroit, Mich. Steel mill conveyer for heated material. 2,164,535; July 4.
McBride, John J., Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y. Folding guardrail for railway cars. 2,164,586; July 4.
McBride, Ray P. (See Bitler, W. T., Evans, and McBride.)
McBurney, Walter G. (See Cox, G. E., and McBurney.)
McCarty, Bernard Y., Beacon, assignor to The Texas Company, New York, N. Y. Separation of wax from hydrocarbon oil. 2,164,776; July 4.
McCarty, Bernard Y., and H. H. Gross, Beacon, assignors to The Texas Company, New York, N. Y. Solvent refining hydrocarbon oil. 2,164,777; July 4.
McCarthy, Lewis M., New York, N. Y. Garbage, ash, and refuse disposal and land reclamation process. 2,164,536; July 4.
McChesney, Donald, and J. Cooper Solvay, assignors to Hall & McChesney, Inc., Syracuse, N. Y. Loose leaf binder. 2,164,659; July 4.
McDevitt, Floyd R., Omaha, Nebr. Inner walled tire. 2,164,686; July 4.
McGee, Samuel W., Franklin, Pa. Automatic multiple lawn mower grinding machine. 2,164,830; July 4.
McGill, Homer T., Stuttgart, Ark. Decorticator. 2,164,338; July 4.
McGrath, John T., Libertyville, Ill. Supply valve. 2,164,934; July 4.

McKay Company, The. (See Senft, John, assignor.)
McKee, Garnet W., Rockford, Ill. Gas burner. 2,164,417; July 4.
McKee, Ralph H., New York, N. Y., and C. T. Bahner, Conway, Ark. Producing amines. 2,164,587; July 4.
McLeod, Robert R., Oakland, Calif. Apparatus for use with coffee brewers. 2,164,619; July 4.
McMullen, John C. (See Benner, R. C., and McMullen.)
McNabb, Arthur E., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Fastening means. 2,164,464; July 4.
McRae, Don C., Miami, Fla., and J. C. Franklin, Kansas City, Mo., assignors to Eclipse Aviation Corporation, East Orange, N. J. Indicating apparatus. 2,164,588; July 4.
Mead, Charles H., Beckley, W. Va. Mine car scotch. 2,164,999; July 4.
Mead, John E., Perivale, and H. G. M. Spratt, Slough, England. Television receiving apparatus. 2,164,537; July 4.
Meier, Wilber L., North Arlington, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Gas discharge tube and circuits. 2,164,538; July 4.
Meiser, George H. (See Beckwith, Bernard J., assignor.)
Merck & Co. (See Engels, William H., assignor.)
Merkt, Gustav A., assignor to Morgan Construction Company, Worcester, Mass. Draft producing apparatus. 2,164,880; July 4.
Merritt, Frank R., Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe with extensible upper margin. 2,164,465; July 4.
Messer, Edward, assignor to Cannon Mills Company, Kannapolis, N. C. Harness control. 2,165,000; July 4.
Messner, Maximilian. (See Deserno, P., and Messner.)
Metal & Controls Corporation. (See Peterson, Arthur W., assignor.)
Meyer, Ferd H., Oakland, assignor to The Adhesive Products Co., San Francisco, Calif. Method and apparatus for forming parcel handles. 2,164,935; July 4.
Meyer, Gustav, assignor to Maybach-Motorenbau Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Pneumatic control valve. 2,165,001; July 4.
Meyer, Vernon H., Beverly, assignor to Sibley-Pym Corporation, Lynn, Mass. Tension mechanism for winding machines. 2,164,336; July 4.
Metal Trim Limited. (See Penkala, Emil, assignor.)
Meyerson, Louis B., Greenwich, Ohio. Vaporizer. 2,164,881; July 4.
Michigan Alkali Company. (See Roderick, Howard, assignor.)
Michigan Tool Company. (See Drader, Joseph C., assignor.)
Mid-Continent Petroleum Corporation. (See Dons, E. M., and Mapes, assignors.)
Midway Chemical Co. (See Follen, James H., assignor.)
Midway Chemical Co. (See Glover, John, assignor.)
Miehle Printing Press & Manufacturing Company. (See Grossarth, Albert A., assignor.)
Miles, James C., Cleveland Heights, Ohio. Controlling the operation of a furnace. 2,164,882; July 4.
Miller, Arthur O., Youngstown, Ohio, assignor to The Petroleum Iron Works Company of Ohio. Tank reinforcing ring. 2,164,660; July 4.
Miller, Glennard E., New York, and R. F. Light, Mount Vernon, assignors to Standards Brands Incorporated, New York, N. Y. Separation of invertase. 2,164,936; July 4.
Miller, Julius. (See Markush, E. A., and Miller.)
Miller, Lewis B. (See Cummins, A. B., and Miller.)
Miller, Wilber B., Niagara Falls, N. Y., assignor to Oxweld Acetylene Company. Welding flux. 2,164,775; July 4.
Minnesota Mining & Manufacturing Company. (See Jewett, Clifford L., assignor.)
Minnesota Mining & Manufacturing Company. (See Strauch, Clauss B., assignor.)
Mitchel, Ralph H. (See Randolph, D. W., and Mitchel.)
Moe, John E. (See Flint, H. M., and Moe.)
Moffett, Eugene W. (See Winkelmann, H. A., Moffett and Calvert.
Money, Roland H., assignor to The Crosley Corporation, Cincinnati, Ohio. Refrigerator cabinet. 2,164,589; July 4.
Monnet, Georges, Chateau de Franiere, Belgium, assignor to Societe Anonyme des Manufacturers des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Treating hard surfaces. 2,164,418; July 4.
Monsanto Chemical Company. (See Hay, Harold R., assignor.)
Monsanto Chemical Company. (See Wilson, W. S., and Lobdell, assignors.)
Monsanto Chemical Company. (See Wilson, W. S., and White, assignors.)
Montgomery, Augie L., Waco, Tex. Scoreboard. 2,164,466; July 4.
Montgomery Ward & Co. (See Yarian, James L., assignor.)
Moore, George E., Dearborn, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Wheel. 2,164,883; July 4.
Moore, Robert, assignor to Freeman Daughaday Company, Providence, R. I. Collar holder. 2,164,831; July 4.
Morelite Company. (See Nickelsburg, Sidney, assignor.)
Morgan, Albert T., Vallejo, Calif. Measuring tip clearance of steam turbines. 2,164,339; July 4.
Morgan, Clyde H., Lakewood, Ohio, and A. O. Blumburg, Washington, D. C. Target. 2,164,340; July 4.
Morgan Construction Company. (See Merkt, Gustav A., assignor.)
Morgan Construction Company. (See Rich, C. A., and Palmer, assignors.)
Morin, Louis H., assignor to Whitehall Patents Corporation, Bronx, N. Y. Noncrushing slider. 2,164,938; July 4.
Morrill, Alfred R., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 2,165,146; July 4.
Morrison, Willard L., Chicago, Ill. Window for vehicles. 2,164,341; July 4.
Morrison, Willard L., Chicago, Ill. Window construction for automobiles. 2,164,342; July 4.
Moss, Leon E., Collingswood, N. J. Skill dart game apparatus. 2,165,147; July 4.
Motor Terminals, Inc. (See Fitch, Benjamin F., assignor.)
Mueller, Ervin H., Detroit, Mich. Gas cock or the like. 2,164,419; July 4.
Muirhead, Donald M., Duxbury, Mass. Insect insulation for foundation structures. 2,165,192; July 4.
Mulno, Lester F., Lowell, Mass. Lawn mower attachment. 2,164,467; July 4.
Murray & Flood, Inc. (See Fraser, Ethelbert M., assignor.)
Myer, Harry L. (See Parker, L. F., and Myer.)
Myers, Leonard M., Middlesborough, England, assignor to Radio Corporation of America. Electrooptical device for controlling light. 2,164,539; July 4.
Nadler, Joseph G., Jr., Jersey City, N. J. Drawing and extrusion die. 2,164,750; July 4.
Nampa, Sulo M., Detroit, Mich., assignor to The Worth Company, Car loading device. 2,164,661; July 4.
Nampa, Sulo M., assignor to The Worth Company, Detroit, Mich. Car loading device. 2,164,662; July 4.
Nassau, Max, Berlin-Wilmersdorf, assignor to the firm Chemische Fabrik Grunau, Landshoff & Meyer Akt. Ges., Berlin-Grunau, Germany. Photographic developer and substances added in preparing the same. 2,164,687; July 4.
National Enameling and Stamping Company. (See Smith, Alva T., assignor.)
National Folding Box Company. (See Ringler, William A., assignor.)
Needham, Howard H., Wauwatosa, and H. A. Schmitz, Jr., and F. K. Zerbe, assignors to A. O. Smith Corporation, Milwaukee, Wis. Supporting means for ladles. 2,165,066; July 4.
Nelms, George C. (See Wilbur, W. K., and Nelms.)
Nelson, Lester E., Long Beach, and V. H. Nelson, Fillmore, Calif. Frost preventing machine. 2,165,148; July 4.
Nelson, Vernon H. (See Nelson, Lester E., and V. H.)
Nenninger, Lester F., Cincinnati, and E. G. Roehm, Norwood, assignors to The Cincinnati Milling Machine Company, Cincinnati, Ohio. Operating control mechanism for milling machines. 2,164,884; July 4.
Neumann, Alfred, St. Louis, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J. Fastening-inserting machine. 2,164,468; July 4.
New Haven Clock Company, The. (See Whitehead, R. H., and Langbein, assignors.)
Newman, Max M., New York, N. Y. Collar and combination of shirt and detachable collar. 2,164,751; July 4.
Nickelsburg, Sidney, assignor to Morelite Company, Inc., New York, N. Y. Carbon moving and controlling device. 2,165,183; July 4.
Nighthart, George E., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Straightening mechanism. 2,164,343; July 4.
Nitardy, Ferdinand W., Brooklyn, assignor to E. R. Squibb & Sons, New York, N. Y. Slide-cover container. 2,164,832; July 4.
Nixdorff-Krein Manufacturing Company. (See Rueff, R. C. and Hammond, assignors.)
Nixon, Jeddy D., assignor of one-half to Wilson Supply Company, Houston, Tex. Fluid lift. 2,164,469; July 4.
Noblitt-Sparks Industries, Inc. (See Booth, E. C., Ludlow, and Root, assignors.)
Nolde and Horst Company. (See McAdams, Harry, assignor.)
Norman, Edith J., et al. (See Norman, Joseph T., assignor.)
Norman, Joseph T., Shickshinny, Pa. Air cleaning and conditioning apparatus. 2,164,833; July 4.
Norman, Joseph T., Shickshinny, assignor of fifty per cent to E. J. Norman, forty per cent to M. M. Baer, Huntington Mills, and 5 per cent to B. Shoemaker and 5 per cent to A. W. Widger, Shickshinny, Pa. Heating and air conditioning system. 2,164,718; July 4.
Norwine, Andrew C., Passaic, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal transmission system. 2,164,344; July 4.
Nuesslein, Joseph. (See Schoeller, C., and Nuesslein.)
Nutt, Harold, assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill. Automatic clutch. 2,164,540; July 4.

Nutting, Howard S. (See Britton, E. C. Nutting, and Petrie.)
Nyquist, Harry, Milburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission circuits. 2,164,752; July 4.
Nystrom, Carl W., deceased, late of Karlstad, Sweden, by H. F. Stenman, administrator, Karlstad, Sweden. Sound recording and reproducing device. 2,164,778; July 4.
Oates, James M., Ashland, Va. Dowel means for roadway joints. 2,164,590; July 4.
Ocenasek, William F., assignor to Walker-Turner Co. Inc., Plainfield, N. J. Tensioning means for running jigsaws. 2,165,002; July 4.
Och, Henry G., West Englewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical wave filter. 2,164,541; July 4.
Ohio Crankshaft Company, The. (See Denneen, F. S., and Dunn, assignors.)
Oilgear Company, The. (See Simonds, Paul, assignor.)
Oilgear Company, The. (See Tyler, Ransom, assignor.)
Oldetyme Distillers, Inc. (See Edwards, Edward P., assignor.)
Olsen, Tinius, Testing Machine Company. (See Lewis, Robert B., assignor.)
Olson, Carl G., assignor to Illinois Tool Works, Chicago, Ill. Tapping screw and forming same. 2,165,149; July 4.
Oplinger, Kirk A. (See Hanna, C. R., and Oplinger.)
Onolo, Charles, Culver City, Calif. Antivibration suspension and steering gear for vehicles. 2,164,470; July 4.
Osterloh, Fritz. (See Frank K., and Osterloh.)
Ottofy, Ladis H., Chicago, Ill. Phonograph device. 2,164,663; July 4.
Owen, Harry, Roosevelt, Utah. Auxiliary braking device for vehicles. 2,164,834; July 4.
Owens, John A., Des Moines, Iowa. Mechanism for accurately mixing dry ingredients. 2,164,542; July 4.
Oxweld Acetylene Company. (See Miller, Wilber B., assignor.)
Oxweld Acetylene Company. (See Wagner, Robert L., assignor.)
Packard Motor Car Company. (See Christman, John M., assignor.)
Palmer-Bee Company. (See McBride, Jesse E., assignor.)
Palmer, Charles. (See Rich, C. A., and Palmer.)
Parish, Willard E., Syracuse, N. Y. Inserted tooth cutter. 2,164,620; July 4.
Parker, Arthur L., Cleveland, Ohio. Flexible coupling for tubes. 2,164,471; July 4.
Parker, Elizabeth W. (See Parker, Henry C., and E. W.)
Parker, Henry C. and E. W., Washington, D. C. Article for cleaning shoes. 2,165,150; July 4.
Parker, Laurie F., Noroton, Conn., and H. L. Myer, assignors to Silas Mason Co., Inc., New York, N. Y. Apparatus for tunneling in consolidated material. 2,164,753; July 4.
Parkison, Wilbur H., Chattanooga, Tenn. Automatic shoe display device. 2,164,664; July 4.
Parsons, Hugh L., Pen Argyl, and S. Schwork, Bangor, Pa. State cutter and punch. 2,164,688; July 4.
Pasternack, Richard, Brooklyn, N. Y., and P. P. Regna, North Bergen, N. J., assignors to Charles Pfizer & Company, Brooklyn, N. Y. Production of ascorbic acid and its isomers. 2,165,151; July 4.
Pasternack, Richard, Brooklyn, N. Y., and P. P. Regna, North Bergen, N. J., assignors to Charles Pfizer & Company, Brooklyn, N. Y. Producing ascorbic acid. 2,165,184; July 4.
Patent and Licensing Corporation, The. (See Groskopf, Edwin O., assignor.)
Patent and Licensing Corporation. (See Kirschbraun, Lester, assignor.)
Payn, Russell C. (See Fleming, J. S. B., and Payn.)
Peacock, Charles T., Arriba, Colo. Ridge busting device for farm tractors. 2,164,543; July 4.
Pearson, Charles L., Buffalo, and R. L. Richardson, Eden, N. Y. Camp stove or the like. 2,164,835; July 4.
Peerless Cement Corporation. (See Eichenlaub, Adelbert C., assignor.)
Peninsular Grinding Wheel Co. (See Beebe, Alan P., assignor.)
Penkala, Emil, assignor to Metal Trim Limited, London, England. Production of profiled sections from sheet metal by rolling. 2,164,836; July 4.
Pennsylvania Railroad Company, The. (See Elsey, Warren R., assignor.)
Peoples Gas By-Products Corporation. (See Guthrie, R. G., and Wilbor, assignors.)
Perfection Steel Body Company, The. (See Cohen, Harry, assignor.)
"Pertrix" Chemische Fabrik Aktiengesellschaft. (See Marhenkel, Erich, assignor.)
Peter, Melville F., Beltsville, Md., and R. H. Stone, Bound Brook, N. J. Radio shielded spark plug lead. 2,164,591; July 4.
Peters, Floyd H., assignor to General Motors Corporation, Dayton, Ohio. Domestic appliance. 2,165,003; July 4.
Peters, Thomas B. R., Clinton, Iowa, assignor to Fairbanks, Morse & Co., Chicago, Ill. Evaporator. 2,165,004; July 4.
Petersen, Thorkild, Elgin, Ill., assignor to Pure Milk Cheese Company. Method and apparatus for forming cheese. 2,165,005; July 4.
Peterson, Arthur W., North Attleboro, assignor to Metals & Controls Corporation, Attleboro, Mass. Alloy. 2,164,938; July 4.
Peterson, Frederick J., College Point, N. Y., and E. A. Russell; said Peterson assignor to Shoup-Owens, Inc., Hoboken, N. J., and said Russell assignor to Spaulding Fibre Co. Inc., Tonawanda, N. Y. Container for pills, capsules, and the like. 2,164,719; July 4.
Petrie, Peter S. (See Britton, E. C., Nutting, and Petrie.)
Petroleum Engineering, Inc. (See Rector, Norman K., assignor.)
Petroleum Iron Works Company of Ohio. (See Miller, Arthur O., assignor.)
Petty, Byron T., Effingham, Ill. Garment hanger. 2,164,420; July 4.
Pevere, Ernest F., Beacon, assignor to The Texas Company, New York, N. Y. Removal of wax from hydrocarbon oil. 2,164,780; July 4.
Pfauser, Edward M., Elm Grove, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Automobile jack. 2,164,621; July 4.
Pfendner, John, Chicago, Ill. Combination lock. 2,165,067; July 4.
Pfister, Arthur, Woodside, N. Y., assignor, by mesne assignments, to J. H. Hammond, Jr., Gloucester, Mass. Timing control. 2,164,939; July 4.
Pfizer, Charles, & Company. (See Pasternack, R., and Regna, assignors.)
Pfleger, George T. (See Heyer, D., and Pfleger.)
Pfleger, George T., Los Angeles, Calif., assignor to U. S. Electrical Motors, Inc. Adjustable rotary pump head. 2,164,837; July 4.
Pharma Chemical Corporation. (See Markush, E. A., and Miller, assignors.)
Pierce, John B., Foundation. (See Groeniger, William C., assignor.)
Pilj, Carl, Los Angeles, Calif. Clamp for concrete wall forms. 2,164,592; July 4.
Pioneer Wrapper and Printing Co. (See Woolever, Harold E., assignor.)
Piron, Emil H., assignor to Transit Research Corporation, New York, N. Y. Making springing elements. 2,164,421; July 4.
Pitman, Henry L., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,164,422; July 4.
Pittman, Ralph R., Pine Bluff, Ark. Lightning arrester. 2,164,720; July 4.
Pittsburgh Equitable Meter Company. (See Thoresen, Einar, assignor.)
Pittsburgh Steel Company. (See McNabb, Arthur E., assignor.)
Pittsburgh Steel Company. (See Watkins, James K., assignor.)
Platz, Carl, Frankfort-on-the-Main, and J. Rosenbach, Wiesbaden, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Amino-carboxylic acids and preparing them. 2,164,781; July 4.
Podmore, Arthur, London, England, assignor to American Machine & Foundry Company, New York, N. Y. Manufacture of cigarettes. 2,164,423; July 4.
Podolsky, Jacob, Dorchester, Mass. Siphon-breaking device. 2,164,622; July 4.
Pokorny, Karel, et al. (See Stružík, František, assignor.)
Polák, Bohumil, Prague, Czechoslovakia. Hair clip. 2,164,940; July 4.
Pollitt, Stanley D. (See Appleyard, K. C., and Pollitt.)
Porsche, F., Dr. ing. h. c., K.-G. (See Porsche, Ferdinand, assignor.)
Porsche, Ferdinand, Stuttgart, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany. Springing of the wheels of motor vehicles. 2,164,838; July 4.
Portable Lamp & Equipment Company. (See Wilbur, William K., assignor.)
Portable Lamp & Equipment Company. (See Wilbur, W. K., and Nelms, assignors.)
Posner, Alfred E., Dorchester, Mass. Hairpin holder. 2,164,623; July 4.
Powers Regulator Company, The. (See Snediker, Morton O., assignor.)
Prahl, Milton A., Milwaukee, and W. L. Rintelman, Carrollville, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Sulphuric acid ester salts of leuco vat dyestuffs. 2,164,782; July 4.
Prahl, Milton A., Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Leuco sulphuric acid esters of anthraquinone selenazoles. 2,164,783; July 4.
Prance, Edgar E., and J. E. Sheffield, Quitman, Ga. Turpentine cup. 2,164,675; July 4.
Price, Albert O., Leesville, Ohio. Sustaining and propulsive means for aircraft. 2,164,721; July 4.
Production Machine Company. (See Fuller, Rufus W., assignor.)
Proportioneers, Inc., et al. (See Purdie, David J., assignor.)
Prosser, Joseph G., Onekama, Mich. Apparatus for molding concrete pipe. 2,164,624; July 4.
Prosser, Joseph G., Onekama, Mich., and E. L. Johnson, Loma Linda, Calif. Concrete pipe and producing same. 2,164,625; July 4.
Protzeller, Harry W., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn. Apparatus for cleaning ballast. 2,165,068; July 4.

Prüss, Max, and H. Blunk, Essen, Germany. Separating of heavy materials from a stream of liquid of varying quantity. 2,165,152; July 4.
Purdie, David J., Verona, N. J., assignor of one-half to Hershey Manufacturing Company, Boston, Mass., and one-half to Proportioneers, Inc., Providence, R. I. Proportional flow mechanism. 2,165,153; July 4.
Pure Milk Cheese Company. (See Petersen, Thorkild, assignor.)
Radio Corporation of America. (See Banks, George B., assignor.)
Radio Corporation of America. (See Dimmick, Glenn L., assignor.)
Radio Corporation of America. (See Douden, William L., assignor.)
Radio Corporation of America. (See Garner, Lloyd P., assignor.)
Radio Corporation of America. (See Harding, Arthur T., assignor.)
Radio Corporation of America. (See Henroteau, Francois C. P., assignor.)
Radio Corporation of America. (See Kentner, Carroll D., assignor.)
Radio Corporation of America. (See Kimmich, William, assignor.)
Radio Corporation of America. (See Landis, Daniel O., assignor.)
Radio Corporation of America. (See Leverenz, Humboldt W., assignor.)
Radio Corporation of America. (See Loomis, F. J., and Reynolds, assignors.)
Radio Corporation of America. (See Maloff, Ioury G., assignor.)
Radio Corporation of America. (See Meier, Wilber L., assignor.)
Radio Corporation of America. (See Myers, Leonard M., assignor.)
Radio Corporation of America. (See Sanial, Arthur J., assignor.)
Radio Corporation of America. (See Smith, Newell R., assignor.)
Radio Corporation of America. (See Smith, Philip T., assignor.)
Radio Corporation of America. (See Toulon, Pierre M. G., assignor.)
Radio Corporation of America. (See Trucl, Rohn, assignor.)
Radio Corporation of America. (See Wright, George M., assignor.)
Radio Patents Corporation. (See Guanella, Gustav, assignor.)
Raiche, Paul A., North Providence, R. I. Manufacture of rubber caps. 2,164,885; July 4.
Rand, James H., Jr., Stamford, Conn., and R. E. Benner, Buffalo, assignors, by mesne assignments, to Remington Rand, Inc., New York, N. Y. Cutter bar for dry shavers. 2,164,424; July 4.
Rand, James H., Jr., Stamford, Conn., assignor, by mesne assignments, to Remington Rand, Inc., New York, N. Y. Multiple head dry shaver. 2,164,425; July 4.
Randolph, Donald W., and R. H. Mitchel, Flint, assignors to General Motors Corporation, Detroit, Mich. Ignition system with stabilizer. 2,164,472; July 4.
Randolph, Lingan S., Lexington, Va. Apparatus and method for recording railroad speed signal observance. 2,164,473; July 4.
Rasmussen, Ernest J., Wauwatosa, Wis., assignor to General Electric Company. Control system. 2,165,111; July 4.
Raylite Trading Company. (See Berwick, Jay W., assignor.)
Rector, Norman K., assignor to Petroleum Engineering, Inc., Tulsa, Okla. Distilling oils. 2,164,593; July 4.
Redditt, John S. (See Snider, Chester A., assignor.)
Reed, Harold V., assignor to Borg-Warner Corporation, Chicago, Ill. Friction clutch. 2,164,544; July 4.
Reed Roller Bit Company. (See Hoffoss, John E., assignor.)
Regna, Peter P. (See Pasternack, R., and Regna.)
Reinhardt, Louis W., Brockton, assignor to Belcher Hinge Company, Stoughton, Mass. Last. 2,165,006; July 4.
Remington Rand, Inc. (See Rand, James H., Jr., assignor.)
Remington Rand, Inc. (See Rand, J. H., Jr., and Benner, assignors.)
Renchtite Spring Nut Company. (See Bergstrom, William A., assignor.)
Renfer, John E., Cleveland Heights, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Water tube for rock drills. 2,164,886; July 4.
Renfroe, James D., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Thread production apparatus. 2,164,426; July 4.
Rentchler, Frances A., Mamaroneck, N. Y. Garment hanger. 2,164,941; July 4.
Republic Flow Meters Company. (See Wey, Raymond J., assignor.)
Research Products Corporation. (See Shoemaker, Milton J., assignor.)
Reynolds, Ellwood W. (See Loomis, F. J., and Reynolds.)
Reynolds, Howard T., Grand Rapids, Mich. Fan. 2,165,069; July 4.
Rhodes, Aaron D., assignor to Consolidated Steel Corp., Ltd., Los Angeles, Calif. Derrick construction. 2,164,427; July 4.
Rhodes, Aaron D., assignor to Consolidated Steel Corp., Ltd., Los Angeles, Calif. Derrick leg footing. 2,164,428; July 4.
Rich, Charles A., and C. Palmer, assignors to Morgan Construction Company, Worcester, Mass. Measurement of frustoconical parts. 2,164,942; July 4.
Richardson, Robert L. (See Pearson, C. L., and Richardson.)
Riley, J. A., Co. (See Coughlin, Thomas B.)
Riley, James A., et al. (See Coughlin, Thomas B., assignor.)
Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Carton. 2,164,346; July 4.
Ringler, William A., Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn. Container for tubes and bulbs. 2,165,070; July 4.
Rintelman, William L. (See Prahl, M. A., and Rintelman.)
Rintelman, William L., Carrollville, and W. Dettwyler, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of dyestuffs and intermediates of the anthraquinone series. 2,164,784; July 4.
Rit Products Corporation. (See Kritchevsky, Wolf, assignor.)
Rittenhouse, A. E., Co., The. (See Rittenhouse, Lloyd, assignor.)
Rittenhouse, Lloyd, assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Signal device. 2,164,839; July 4.
Ritter, John C., Los Angeles, Calif. Scoop. 2,164,429; July 4.
Roberts, Earl W., and T. L. Ferrall, Detroit, Mich., assignors, by mesne assignments, to The Bryant Heater Company, Cleveland, Ohio. Safety control and ignition means for multiple gas burners. 2,164,887; July 4.
Robertson, H. H., Company. (See Hubbell, Dean S., assignor.)
Robinson, Charles A., Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 2,164,347; July 4.
Rock, John P., Duluth, Minn. Bearing for vehicles. 2,164,840; July 4.
Roderick, Howard, Grosse Ile, assignor to Michigan Alkali Company, Wyandotte, Mich. Preparation of calcium carbonate. 2,164,943; July 4.
Roehm, Erwin G. (See Nenninger, L. F., and Roehm.)
Rogers, John P., assignor to Aviation Manufacturing Corporation, Williamsport, Pa. Airplane. 2,164,545; July 4.
Rogers, Thomas H. and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Sweetening high-sulphur motor fuels. 2,164,665; July 4.
Roh, Nikolaus. (See Winter, C., and Roh.)
Rolph, Thomas W., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Desk lamp. 2,164,546; July 4.
Root, Ralph C. (See Booth, E. C., Ludlow, and Root.)
Rosback, F. P., Company. (See Manny, Fred L., assignor.)
Rosenbach, Johann. (See Platz, C., and Rosenbach.)
Rosenberg, Heyman, New York, N. Y. Forming ribbed fasteners. 2,165,007; July 4.
Rosenberg, Heyman, New York, N. Y. Die. 2,165,008; July 4.
Rosenberg, Heyman, New York, N. Y. Die and the art of forming anchorage instruments. 2,165,009; July 4.
Rosenberg, Heyman, New York, N. Y. Anchorage apparatus. 2,165,010; July 4.
Rosenberg, Heyman, New York, N. Y. Anchorage apparatus. 2,165,011; July 4.
Rosmalt, John A., Manistee, Mich. Pulp stock agitating apparatus. 2,164,944; July 4.
Ross, Fred A. (See Doty, R. B., and Ross.)
Ross, Warren A., Gaverhill, Mass., assignor to D. M. Carter, Chicago, Ill. Drilling device. 2,164,348; July 4.
Rossander, Swanie S. (See Jordan, H., and Rossander.)
Rossander, Swanie S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes. 2,164,785; July 4.
Rossander, Swanie S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Developable azo dyes and producing the same on the fiber. 2,164,786; July 4.
Rossander, Swanie S., Wilmington, Del., and C. W. Croco, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Di (amino-aroyl) alkylene diamines. 2,164,787; July 4.
Rorden, George T., South Orange, assignor to Federal Telegraph Company, Newark, N. J. High frequency modulating and transmitting system. 2,165,112; July 4.
Rover Foundry and Machine Co. (See Davies, Stanley B., assignor.)
Rubenstein, Henry, Brooklyn, N. Y. Toy eye blinker. 2,165,113; July 4.
Rueff, Robert C., and L. Hammond, assignor to Nixdorff-Krein Manufacturing Company, St. Louis, Mo. Anti-skid chain. 2,164,945; July 4.
Ruscetta Ralph A. (See Clark, F. M., and Ruscetta.)
Rushing, Frank C. (See Baker, J. G., and Rushing.)
Russell, Earl A. (See Peterson, F. J., and Russell.)
Rutenber Electric Company. (See Goldthwaite, Robert S., assignor.)

Rutherford, Charles E., West Hartford, assignor to The Wiremold Company, Hartford, Conn. Pancake telephone outlet. 2,164,788; July 14.
Rypinski, Albert B., Laurelton, Long Island, N. Y. Circuit control and current control system. 2,164,349; July 4.
S K F Industries, Inc. (See Schmal, Alois H., assignor.)
Saarela, John H., Seattle, Wash. Fish lure. 2,165,071; July 4.
Sachsenmaier, Ervin S., assignor to Larkwood Silk Hosiery Mills, Inc., Charlotte, N. C. Knitted fabric. 2,165,012; July 4.
Sadowsky, Charles, New York, N. Y. Garment hanger. 2,165,072; July 4.
Sampsel, Arthur V., Lafayette, Ind., assignor to Sears, Roebuck & Company, Chicago, Ill. Automatic stoker. 2,164,350; July 4.
Samson, Herbert S., Winnipeg, Manitoba, Canada, assignor of two-fifths to John A. Dienner, Evanston, Ill. Processing of milk to be used for beverages and the product thereof. 2,164,351; July 4.
Sanders, John C., assignor to Boeing Aircraft Company, Seattle, Wash. Aircraft gun mount and flush protective shield therefor. 2,164,722; July 4.
Sanial, Arthur J., Flushing, N. Y., assignor to Radio Corporation of America. Electroacoustical apparatus. 2,164,756; July 4.
Sargent, Herbert L., North Danville, N. H. Thermostatic control system. 2,164,353; July 4.
Sargent, Herbert L., North Danville, N. H. Control system. 2,164,352; July 4.
Sassen, Bernard, H. Ernst, and F. S. Haas, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Variable delivery pump. 2,164,888; July 4.
Savage, Iva de Freese, Jersey City, N. J. Baking greasing method and product. 2,165,154; July 4.
Sawdon, Victor J., New York, N. Y. Envelope. 2,165,195; July 4.
Schaefer, Frederic, Pittsburgh, Pa. Brake hanger. 2,164,474; July 4.
Scheppmann, Wilhelm, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Picture telegraph device. 2,164,946; July 4.
Scheppmann, Wilhelm, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Coupling device. 2,164,947; July 4.
Schiele, Otto. (See Filberich, L., Schiele, and Seethaler.)
Schjolin, Eric O., Pontiac, assignor to General Motors Corporation, Detroit, Mich. Hydraulic throttle control. 2,164,475; July 4.
Schlumberger, Conrad, Paris, France, assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Texas. Method and apparatus for identifying the nature of the formations in a bore hole. 2,165,013; July 4.
Schlumberger Well Surveying Corporation. (See Schlumberger, Conrad, assignor.)
Schmal, Alois H., assignor to S K F Industries, Inc., Philadelphia, Pa. Automotive propeller shaft support bearing unit. 2,165,155; July 4.
Schmidt, Friedrich P., Suhl, Germany. Collapsible tubular container. 2,164,430 July 4.
Schmidt, Henry A., Jr. (See Needham, H. H., Schmitz, and Zerbe.)
Schneider, Adam, Milwaukee, Wis. Adjuster for swinging doors. 2,164,948; July 4.
Schneider, Marie L., Forest Hills, N. Y. Sifter. 2,164,841; July 4.
Schoeller, Conrad, Ludwigshafen-on-the-Rhine, and J. Nuesslein, Frankfort-on-the-Main-Hochst, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of ethers suitable as dispensing agents and of preparations therefrom. 2,164,431; July 4.
Schranth, Walther, Berlin-Dahlem, and K. Stickdorn, Dessau-Rosslau Anhalt, assignors to Deutsche Hydrierlwerke Aktiengesellschaft, Berlin-Charlottenburg, Germany. Emulsions. 2,164,723; July 4.
Schreiber, Rudolph E., Chicago, Ill. Line securing device. 2,164,949; July 4.
Schrier, Harold D., Kalamazoo, Mich. Container. 2,164,354; July 4.
Schultheiss, John P., assignor to R. F. Simmons Company, Attleboro, Mass. Wrist-watch strap, band, or the like. 2,165,115; July 4.
Schultz, William O., assignor to Line Material Company, South Milwaukee, Wis. Fuse construction. 2,165,156; July 4.
Schulze, Henry L., administrator. (See Schulze, John F. W.)
Schulze, John F. W., deceased, Cleveland, Ohio, by H. L. Schulze, administrator, Yonkers, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Forming agglomerates. 2,164,950; July 4.
Schwartz, Edward, assignor to The Sound Publicity Corporation, New York, N. Y. Tape phonograph. 2,165,073; July 4.
Schwartz, Erich, Berlin-Zehlendorf, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany. Electrode holding device. 2,164,951; July 4.
Schwing, Karl J., East Orange, N. J. Purifying and dispersing coloring matter of the anthraquinone series. 2,164,952; July 4.
Schwork, Stanley. (See Parsons, H. L., and Schwork.)
Scovill Manufacturing Company. (See Huelster, Otto J., assignor.)
Scutt, Arthur G., assignor, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y. Making abrasive articles by means of precoated grain. 2,164,476; July 4.
Seaman, Kent L., Pasadena, Calif. Tie lock. 2,164,626; July 4.
Sears, Roebuck and Co. (See Kelso, Harrison M., Jr.)
Sears, Roebuck & Company. (See Sampsel, Arthur V., assignor.)
Seethaler, Karl. (See Filberich, L., Schiele, and Seethaler.)
Seibert, Frank J. (See Chipman, R. N., and Seibert.)
Selwyn, Samuel D., Chicago, Ill. Fountain brush. 2,164,432; July 4.
Senft, John, York, assignor to The McKay Company, Pittsburgh, Pa. Antiskid cross chain. 2,165,114; July 4.
Servel, Inc. (See Bäckström, Sigurd M., assignor.)
Severin, Jose, Mulheim-on-the-Ruhr, Germany. Rolling mill for enlarging hollow bodies. 2,164,724; July 4.
Sewel, Inc. (See Grubb, Gunnar, assignor.)
Seyfried, Warren R., Tampa, Fla. Treatment of phosphatic solutions. 2,164,627; July 4.
Shannon, Jack F. (See Dickey, P. S., and Shannon.)
Shaw, Dudley, Oklahoma City, Okla. Block or conduit forming apparatus. 2,164,953; July 4.
Shell Development Company. (See Yabroff, D. L., and White, assignors.)
Sheffield, John E. (See Prance, E. E., and Sheffield.)
Sheldon, Cecil H., Manter, Kans. Tank filling device. 2,164,789; July 4.
Shell Development Company. (See Broeze, J. J., and van Driel, assignors.)
Sherman, Donald W., Shorewood, assignor to A. O. Smith Corporation, Milwaukee, Wis. Side rail for vehicle frames. 2,165,074; July 4.
Shields, Robert A., Berwick, Pa., assignor to American Car & Foundry Company, New York, N. Y. Dual action spring bumper and draft gear. 2,164,594; July 4.
Shippert, Warren A. (See Welsh, George L., assignor.)
Shode, Chester L., Great Bend, Kans. Tube and pipe cleaner. 2,164,689; July 4.
Shoemaker, Beach, et al. (See Norman, Joseph T., assignor.)
Shoemaker, Bernard H. (See Rogers, T. H., and Shoemaker.)
Shoemaker, Milton J., assignor, by mesne assignments, to Research Products Corporation, Madison, Wis. Artificial zeolite and preparing the same. 2,165,014; July 4.
Short, John F. (See Langwell, H., and Short.)
Shoup-Owens, Inc. (See Peterson, F. J., assignor, and Russell.)
Sibley, Floyd J., Detroit, Mich. Radiator header with floating tube sheet. 2,164,628; July 4.
Sibley, Floyd J., Detroit, Mich. Radiator header with metering orifice nipples and making same. 2,164,629; July 4.
Sibley-Pym Corporation. (See Meyer, Vernon H., assignor.)
Siebertz, Karl, Berlin-Grunewald, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt-Berlin, Germany. Coating electrodes. 2,164,595; July 4.
Siemens and Halske Aktiengesellschaft. (See Espe, Werner, assignor.)
Siemens & Halske, Aktiengesellschaft. (See Siebertz, Karl, assignor.)
Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Köster, Paul E., assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Hintze, Rudolf, assignor.)
Simmons, Charles M., San Diego, Calif. Sanitary automatic faucet protector. 2,164,666; July 4.
Simmons Company. (See Woller, Edward E., assignor.)
Simmons, R. F., Company. (See Schultheiss, John P., assignor.)
Simonds, Paul, assignor to The Oilgear Company, Milwaukee, Wis. Winder drive. 2,164,596; July 4.
Simplex Time Recorder Company. (See Watkins, E. G., and Dell, assignors.)
Singer Manufacturing Company, The. (See Spaine, Edward P., assignor.)
Sinnett, John B., assignor to Howell Electric Motors Company, Howell, Mich. Motor switch. 2,164,667; July 4.
Sisson, James G., assignor to The L. S. Starrett Company, Athol, Mass. Dial indicator. 2,165,017; July 4.
Slagh, Harold R., assignor to The Dow Chemical Company, Midland, Mich. Esters of 1,4-dioxanediol-2,3 and 1,4-dioxaneol-2-chloro-3. 2,164,355; July 4.
Slagh, Harold R., assignor to The Dow Chemical Company, Midland, Mich. Esters of 1,4-dioxanediol-2,3. 2,164,356; July 4.
Slaph, Harold R., assignor to The Dow Chemical Company, Midland, Mich. Esters of heterocyclic monocarboxylic acids. 2,164,357; July 4.
Slenian, Joseph, Pittsburgh, and L. R. Ludwig, Forest Hills, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Flat rectifier and circuit. 2,165,075; July 4.
Smith, Alva T., assignor to National Enameling and Stamping Company, Milwaukee, Wis. Thermostatic control for liquid fuel burners. 2,164,955; July 4.

Smith, A. O., Corporation. (See Holmberg, Einar O., assignor.)
Smith, A. O., Corporation. (See Needham, H. H., Schmitz, and Zerbe, assignors.)
Smith, A. O., Corporation. (See Sherman, Donald W., assignor.)
Smith and Wesson, Inc. (See Wesson, Harold, assignor.)
Smith, Bennett A. (See Long, Ben T., assignor.)
Smith, Clyde, Hopkinsville, Ky., assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y. Automatic stock quotation board. 2,164,956; July 4.
Smith, George L., assignor to Thermo Brakes Corporation, Washington, D. C. Clearance adjuster for brakes. 2,165,076; July 4.
Smith, Harry F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,164,842; July 4.
Smith, John A., Spokane, Wash. Hanger. 2,165,157; July 4.
Smith, Lucian B., Flint, assignor to General Motors Corporation, Detroit, Mich. Radiator pressure cap. 2,164,478; July 4.
Smith, Newell R., Bloomfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrode support. 2,164,547; July 4.
Smith, Phllip T., East Orange, N. J., assignor, by mesne assignments, to Radio Corjoration of America, New York, N. Y. Electrode support. 2,164,477; July 4.
Smith, Reginald H., St. Albans, N. Y. Heat-insulating roof. 2,164,790; July 4.
Smith, Wallace W., Chicago, Ill. Adjustable eraser attachment. 2,164,433; July 4.
Smith, Wesson W., Plainville, Kans. Casing pick-up elevator. 2,164,843; July 4.
Smithers, Vernon L. (See Hicks, De W. T., and Smithers.)
Smoot, Katherine E., executrix. (See Smoot, Charles H.)
Smoot, Charles H., deceased, by K. E. Smoot, executrix, Maplewood, N. J., assignor to said Katherine E. Smoot. Regulator. 2,164,548; July 4.
Snediker, Morton O., assignor to The Powers Regulator Company, Chicago, Ill. Hygrothermostat. 2,164,434; July 4.
Snider, Chester A., Huntington, assignor of one-half to J. S. Redditt, Lufkin, Tex. Brake. 2,164,844; July 4.
Snyder, Gilbert, assignor to Mastic Asphalt Corporation, South Bend, Ind. Building covering member. 2,164,725; July 4.
Societe Anonyme des Manufacturers des Glaces & Produits Chimiques de Saint-Gobain, Chauney & Cirey. (See Monnet, Georges, assignor.)
Societe de Paris & du Rhone. (See Gachon, Albert, assignor.)
Society of Chemical Industry in Basle. (See Fisch, Willi, assignor.)
Socotch, John Y. (See Sorenson, Thoyer, assignor.)
Sohles, Leroy P., Pittsfield, Mass., assignor to General Electric Company. Electric cut-out. 2,165,015; July 4.
Somerville, William E., Coal City, Ill. High speed stranding or wire rope machine. 2,164,630; July 4.
Sorensen, Andrew J., Edgewood, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,164,668; July 4.
Sorenson, Thoyer, assignor of one-half to J. Y. Socotch, Cleveland, Ohio. Radio receiving apparatus. 2,164,889; July 4.
Soss, Joseph, Roselle, N. J. Concealed hinge. 2,164,757; July 4.
Sound Publicity Corporation, The. (See Schwartz, Edward, assignor.)
Spaine, Edward P., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Tension-releaser for sewing machines. 2,165,016; July 4.
Spaulding Fibre Co. Inc. (See Peterson, F. J., and (Russell, assignor).)
Speed-Dump, Inc. (See Gerosa, L., and Wagner, assignors.)
Speer, D., Rainey et al. (See Doyle, Percy A., assignor.)
Spelman, Edward M. (See Travis, Frederick S., assignor.)
Spiess, George., Leipzig, Germany. Automatic feeding device. 2,165,160; July 4.
Spiess, Georg., Leipzig, Germany. Feed table. 2,165,161; July 4.
Spordick, Louis, Brooklyn, N. Y., assignor to Surftex Inc., Jersey City, N. J. Knitting machine. 2,165,077; July 4.
Spratt, Hector G. M. (See Mead, J. E., and Spratt.)
Square D. Company. (See Kingdon, Ralph H., assignor.)
Squibb, E. R., & Sons. (See Nitardy, Ferdinand W., assignor.)
Stacey Brothers Gas Construction Company, The. (See Gruening, William E., assignor.)
Stagl, Rodolphe, Brussels, Belgium. Telescope. 2,165,158; July 4.
Standard Brands Incorporated. (See Gore, H. C., Kirby, and Frey, assignors.)
Standard Brands Incorporated. (See Miller, G. E., and Light, assignors.)
Standard Oil Company. (See Bransky, David W., assignor.)
Standard Oil Company. (See Rogers, T. H. and Shoemaker, assignors.)
Standard Railway Equipment Manufacturing Company. (See Thompson, William D., assignor.)
Standard Stoker Company, The. (See Graves, John R., assignor.)
Standard Stoker Company, The. (See Martin, Eugene, assignor.)
Standard Stoker Company, The. (See Surdy, Charles J., assignor.)
Stannard, Benjamin F., assignor of forty per cent to A. B. Leavelle, Los Angeles, Calif. Closure controlling device. 2,164,358; July 4.
Starrett, L. S., Company, The. (See Sisson, James G., assignor.)
Stathem, Vereau L., Riverdale, Calif. Can handling tool. 2,165,159; July 4.
Steed, Boyd C., Salisbury, and H. B. Wentz, Statesville, N. C. Power roller for compacting materials used in various types of surfacing. 2,164,845; July 4.
Steenhoff, Rolf, Stockholm, Sweden. Cap closure seal. 2,164,957; July 4.
Stein, Albert A., Cold Spring, Minn. Electrical reversing controller-remotely adjustable. 2,164,958; July 4.
Steiner, Leo, Budapest, Hungary. Sharpening metal strips. 2,164,959; July 4.
Stenman, Henrik F., administrator. (See Nystrom, Carl W.)
Stephens, Thomas J., Brooklyn, N. Y. Combustion and gas mixing assembly for gas circulating systems. 2,164,954; July 4.
Stephenson, Paul A., Winnetka, assignor to A. B. Dick Company, Chicago, Ill. Duplicating machine. 2,164,549; July 4.
Steward, Arthur N., Anderson, Calif. Transport cradle for disk harrows. 2,164,550; July 4.
Stickdorn, Kurt. (See Schrauth, W., and Stickdorn.)
Stockton, Kenneth E., Ridgewood, N. J., and J. S. Jammer, Cumberland, Md., assignors to International Standard Electric Corporation, New York, N. Y. Combined radio receiving and intercommunication system. 2,164,960; July 4.
Stone, R. Harry. (See Peters, M. F., and Stone.)
Strauch, Clauss B., New York, N. Y., assignor ot Minnesota Mining & Manufacturing Company, St. Paul, Minn. Adhesive tape. 2,164,359; July 4.
Strauch, Clauss B., New York, N. Y., assignor to Minnesota Mining & Manuacturing Company, St. Paul, Minn. Wound dressing. 2,164,360; July 4.
Strübig, Heinrich, Teltow, near Berlin, Gartenstadt Seehof, assignor to the firm Fernsch Aktien-Gesellschaft, Zehlendorf, near Berlin, Germany. Mosaic plate. 2,154,961; July 4.
Stružik, František, Petrvald, assignor of one-third to J. Dvorak, Moravska Ostrava-Vitkovice, Chodska, and one-third to K. Pokorny, Moravska Ostrava-Zabreh, Moravska, Czechoslovakia. Plug insert for bore holes for cushion blasting in gaseous mines. 2,164,690; July 4.
Suchanek, Frank V., New Rochelle, N. Y. Rumble seat method and means. 2,164,435; July 4.
Sunderland, Alfred E., Asheville, assignor to American Enka Corporation, Enka, N. C. Treatment of artificial silk. 2,164,479; July 4.
Sun Shipbuilding & Dry Dock Company. (See Burke, Richard L., assignor.)
Sun Shipbuilding & Dry Dock Company. (See Howard, Cecil D., assignor.)
Sun Tube Corporation, The. (See Fridén, John H., assignor.)
Surdy, Charles J., Tuckahoe, N. Y., assignor to The Standard Stoker Company, Incorporated. Locomotive stoker. 2,164,726; July 4.
Surftex Inc. (See Spordick, Louis, assignor.)
Suris, José, Habana, Cuba. Vehicle wheel. 2,165,185; July 4.
Swain, Robert P. (See Dove, G. H., assignor.)
Swanson, Arthur, Pampa, Tex., assignor to Cabot Shops, Inc., Boston, Mass. Automatic length-controlling apparatus. 2,164,597; July 4.
Swennes, Benjamin A. B., Rockford, assignor to Borg-Warner Corporation, Chicago, Ill. Hydraulic brake. 2,164,551; July 4.
Swenson, Arthur W., Rockford, Ill. Amusement apparatus. 2,164,361; July 4.
Tampkin, Haman, Brooklyn, N. Y. Combination spring and attachment. 2,164,962; July 4.
Taylor, Donald F., Hughson, Calif. Disk harrow. 2,164,963; July 4.
Taylor, George N., East Providence, R. I., assignor to Universal Winding Company, Boston, Mass. Winding machine. 2,165,018; July 4.
Taylor, George O., Cicero, assignor to The Lubrication Corporation, Chicago, Ill. Fluid operated vacuum device. 2,164,552; July 4.
Taylor, Robert B., near Knoxville, Tenn. Freezing foods. 2,164,362; July 4.
Tear, Harry R., Evanston, assignor to The Lubrication Corporation, Chicago, Ill. Making lubricating devices. 2,164,553; July 4.
Telefonaktiebolaget L. M. Ericsson. (See Alexandersson, H. V., and Hullegård, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Andrieu, Robert, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Buschbeck, Werner, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hollmann, Hans E., assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Urtel, R., and Andrieu, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Wilhelm, Karl, assignor.)
Texas Company, The. (See Claypoole, Walter, assignor.)
Texas Company, The. (See Kendall, Marcus T., assignor.)
Texas Company, The. (See Knowles, Edwin C., assignor.)
Texas Company, The. (See Manley, Robert E., assignor.)
Texas Company, The. (See McCarty, Bernard Y., assignor.)
Texas Company, The. (See McCarty, B. Y., and Gross, assignors.)
Texas Company, The. (See Pevere, Ernest F., assignor.)
Thermo Brakes Corporation. (See Smith, George L., assignor.)
Thomas, William, assignor to The Waterbury Tool Company, Waterbury, Conn. Relief valve for power transmission systems. 2,164,669; July 4.
Thomas, William, Glendale, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Power transmission unit. 2,164,670; July 4.
Thompson, Allison J., Cleveland, Ohio, assignor to The Thompson Electric Company. Mounting device. 2,164,846; July 4.
Thompson Electric Company, The. (See Thompson, Allison J., assignor.)
Thompson, William D., Birmingham, Mich., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Insulated roof. 2,164,890; July 4.
Thoresen, Einar, assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa. Fluid meter. 2,164,671; July 4.
Thornton, Bertrand P., Lawrence, assignor to General Heating Equipment Company, Kansas City, Mo. Oil burning furnace. 2,165,162; July 4.
Thrift, Fred, Whitsett, Tex. Core taking apparatus. 2,164,598; July 4.
Tinker, Ralph, Fountain City, Wis. Power transmission. 2,164,758; July 4.
Tobis Tonbild Syndikat Aktiengesellschaft. (See Brinck, M., and Grönebaum, assignors.)
Tollefson, Adolph I., Benson, Minn. Wheel support. 2,164,554; July 4.
Topalov, Michael I., Detroit, Mich. Direct current transformer. 2,164,964; July 4.
Tornberg, Isidor, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Blanket winding for a printing cylinder. 2,164,480; July 4.
Toulon, Pierre M. G., Puteaux, France, assignor to Radio Corporation of America. Television receiving set. 2,165,078; July 4.
Transit Research Corporation. (See Piron, Emil H., assignor.)
Traube, Abraham, Brooklyn, N. Y. Apparatus for cleaning fabrics and the like. 2,164,965; July 4.
Trautman, Oscar C. (See Wood, W. H., and Trautman.)
Trautmann, Otto E., Irondequoit, assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Projector. 2,164,847; July 4.
Travis, Frederick S., assignor of one-half to Edward M. Spelman, Cleveland, Ohio. Sprocket assembly for bicycles. 2,164,759; July 4.
Traylor Engineering and Manufacturing Company. (See Cheesman, Richard D., assignor.)
Traylor Vibrator Company, The. (See Bird, Byron M., assignor.)
Traylor Vibrator Company, The. (See Francis, E. V., and Flint, assignors.)
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trojan Powder Company. (See Wyler, Joseph A., assignor.)
Trojanowski, Jacob, Cleveland, Ohio. Wall construction. 2,165,116; July 4.
Truell, Rohn; East Orange, N. J. Assignor to Radio Corporation of America, New York, N. Y. Cathode ray tube. 2,164,555; July 4.
Tubbs, Lester G., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating apparatus. 2,165,079; July 4.
Tubbs, Lester G., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Voltage regulator. 2,165,080; July 4.
Tucker, Chester R. (See Hall, C. P., and Tucker.)
Tutein, Paul, deceased, Copenhagen, Denmark, by Kamma Tutein, Copenhagen, Denmark. Pleated material and making the same. 2,164,966; July 4.
Tutein, Kamma. (See Tutein, Paul.)
Tyler, Ransom, Greenfield, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic drive. 2,164,599; July 4.
Tyler, Ransom, Greenfield, assignor to The Oilgear Company, Milwaukee, Wis. Hydraulic drive for winding apparatus. 2,164,600; July 4.
Udstad, Sigvald, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Venetian blind. 2,164,556; July 4.
Uhlemann Optical Co. of Illinois. (See Uhlemann, William R., assignor.)
Uhlemann, William R., Evanston, assignor to Uhlemann Optical Co. of Illinois, Chicago, Ill. Lens mounting. 2,164,557; July 4.
Unger, Paul O., Elmhurst, assignor to Wilson-Jones Company, Chicago, Ill. Loose leaf binder. 2,164,967; July 4.
Union Oil Company of California. (See Flaxman, Marcellus T., assignor.)
Union Switch & Signal Company, The. (See Baughman, George W., assignor.)
Union Switch & Signal Company, The. (See Kershaw, Arthur G., assignor.)
Union Switch & Signal Company, The. (See Kershaw, Arthur G., and N. G., assignors.)
Union Switch & Signal Company, The. (See Sorensen, Andrew J., assignor.)
United Aircraft Corporation. (See Lee, John G., assignor.)
United Shoe Machinery Corporation. (See Merritt, Frank R., assignor.)
United Shoe Machinery Corporation. (See Morrill, Alfred R., assignor.)
United Shoe Machinery Corporation. (See Neumann, Alfred, assignor.)
United Shoe Machinery Corporation. (See Robinson, Charles A., assignor.)
U. S. Electrical Motors, Inc. (See Heyer, D., and Pfleger, assignors.)
U. S. Electrical Motors, Inc. (See Pfleger, George T., assignor.)
United States Pipe and Foundry Company. (See Hering, Edward, assignor.)
Universal Winding Company. (See Taylor, George N., assignor.)
Urfer, Adolf, Richmond Hill, assignor to Bendix Aviation Corporation, South Bend, Ind. Settable altimeter. 2,164,601; July 4.
Urtel, Rudolf, and R. Andrieu, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Saw-toothed wave form generator. 2,164,968; July 4.
Utah Radio Products Company. (See Barrett, Edward L., assignor.)
Vaco Products, Inc. (See Ingres, Jack G., assignor.)
Valletta, Vittorio, assignor to Fiat Società Anonima, Turin, Italy. Motor vehicle suspension. 2,164,602; July 4.
Van Dorn, Herbert E., Chicago, Ill., assignor to The Dornvan Corporation. Tight-lock car coupler. 2,164,969; July 4.
Van Driel, Hendrik. (See Broeze, J. J., and van Driel.)
Van Patten, Louis C., assignor to Cheney Weeder Company, Cheney, Wash. Rod weeder. 2,165,019; July 4.
Van Raalte Company. (See Martin, H. C., and Claflin, assignors.)
Van Sittert, Paul, Cleveland Heights, and J. H. Engeln, assignors to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Riveting tool. 2,164,970; July 4.
Vickers, Harry F., Detroit, Mich. Apparatus for governing movement of hand controlled power transmission. 2,164,971; July 4.
Vickers, Harry F., Washington, D. C. Bomb release mechanism. 2,164,672; July 4.
Virginia Chemical Corporation. (See Hettrick, Ames B., assignor.)
Volkwein, Walter E. (See De Salardi, Albert B., assignor.)
Wagner, George P. (See Gerosa, L., and Wagner.)
Wagner, Robert L., Niagara Falls, N. Y., assignor to Oxweld Ocetylene Company. Blowpipe. 2,164,972; July 4.
Wakefield, C. C., & Company Limited. (See Evans, Elliott A., assignor.)
Wald, Max, New York, N. Y. Disappearing pocket. 2,165,081; July 4.
Walker, Charles R., assignor to Abrasive Products, Inc., South Braintree, Mass. Water-resistant abrasive product and making same. 2,165,186; July 4.
Walker, Nelson. (See Eshbaugh, J. E., and Walker.)
Walker-Turner Co. Inc. (See Ocenasek, William F., assignor.)
Wallace & Tiernan Products, Inc. (See MacKay, John R., assignor.)
Waller, Fred, Huntington, N. Y. Apparatus for taking soundings. 2,164,791; July 4.
Wallin, Cajs-Marie. (See Wallin, Ernst H., assignor.)
Wallin, Ernst H., assignor to Cajs-Marie Wallin, Arvika, Sweden. Bed blanket or plaid. 2,164,848; July 4.
Warner Bros. Pictures, Inc. (See Haskin, Byron C., assignor.)
Warner Bros. Pictures, Inc. (See Jackson, Fred W., assignor.)
Warner Bros. Pictures, Inc. (See Thomas, William, assignor.)
Waterbury Lock and Specialty Company, The. (See Evans, William E., assignor.)
Waterbury Tool Company, The. (See Ellis, Arthur L., assignor.)
Waterbury Tool Company, The. (See Thomas, William, assignor.)
Waters, Gilbert C., Rochester, N. Y. Printing press. 2,164,363; July 4.

Waters, Marshall A., Chicago, Ill. Box blanking machine. 2,164,436; July 4.
Waters, Millard F., assignor to Hanlon-Waters, Inc., Tulsa, Okla. Pipe coupling. 2,165,163; July 4.
Waters, Millard F., assignor to Hanlon-Waters, Inc., Tulsa, Okla. Flexible pipe coupling. 2,165,164; July 4.
Watkins, Edward G., and J. A. Dell, assignors to Simplex Time Recorder Company, Gardner, Mass. Shifting mechanism for time recorders. 2,165,117; July 4.
Watkins, James K., Monessen, assignor to Pittsburgh Steel Company, Pittsburgh, Pa. Method and apparatus for making wire fabric. 2,164,481; July 4.
Watson, Glenn W., Detroit, Mich. Electric steam generator. 2,164,482; July 4.
Watson, James, West Monkseation, and H. T. Lamb, Newcastle-on-Tyne, England. Feed hopper for pulverized materials. 2,164,483; July 4.
Weber, Victor, Assignor to The Emerson Electric Mfg. Co., St. Louis, Mo. Protected motor. 2,165,082; July 4.
Webster, Allen D., Daly City, Calif. Scaffold hanger. 2,164,973; July 4.
Weeks, James R. (See Bertossa, Harry A., assignor.)
Weisgerber, Edwin C. R., assignor to Master Separator and Valve Company, Los Aangeles, Calif. Feed water heater and scrubber. 2,164,974; July 4.
Weld, Foster E. (See Bridges, F. R., and Weld.)
Wellman, Charles P., North Haven, Conn. Paperboard carton. 2,165,083; July 4.
Welsh, George I., assignor to W. A. Shippert, Dixon, Ill. Belt connector. 2,165,020; July 4.
Wendeborn, Heinnit, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y. Production of a sintered product. 2,165,084; July 4.
Wentz, Howard B. (See Steed, B. C., and Wentz.)
Wesson, Harold, assignor to Smith and Wesson, Inc., Springfield, Mass. Flush valve. 2,164,760; July 4.
West, Jarold R., assignor to R. Williams, New York, N. Y. Submarine sound system. 2,164,858; July 4.
Westberg, Sigurd, Oslo, Norway. Production of low carbon steel. 2,164,727; July 4.
Westinghouse Electric & Manufacturing Company. (See Baker, J. G., and Rushing, assignors.)
Westinghouse Electric & Manufacturing Company. (See Bitter, Francis, assignor.)
Westinghouse Electric & Manufacturing Company. (See Bourland, Langford T., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brown, John L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ellis, D., and Armstrong, assignors.)
Westinghouse Electric & Manufacturing Company. (See Evans, Robert D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Exner, Donald W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fliberich, L., Schiele, and Seethaler, assignors.)
Westinghouse Electric & Manufacturing Company. (See Foresman, Robert A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Fountain, Lawrence L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, Finn H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hanna, C. R., and Oplinger, assignors.)
Westinghouse Electric & Manufacturing Company. (See Kafka, Wilhelm, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kalischer, Philip R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kinn, Theodore P., assignor.)
Westinghouse Electric & Manufacturing Company. (See Marbury, Ralph E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, J., and Ludwig, assignors.)
Westinghouse Electric & Manufacturing Company. (See Tubbs, Lester G., assignor.)
Wey, Raymond J., London, England, assignor to Republic Flow Meters Company, Chicago, Ill. Electric signaling or controlling system employing follow-up devices. 2,164,728; July 4.
Wheeleo Vacuum Products Company. (See Cohen, Theodore A., assignor.)
Wheelwright, J. S., Limited. (See Wheelwright, John S., assignor.)
Wheelwright, John S., assignor to J. S. Wheelwright Limited, London, England. Screen printing machine. 2,164,603; July 4.
Whitcomb, Winfred S., Riverside, Calif. Deep well pump. 2,164,975; July 4.
White, Ellis R. (See Yabroff, D. L., and White.)
White, Herbert J., Wayne Township, Passaic County, N. J. Cutting-off machine. 2,165,118; July 4.
White, John F. (See Wilson, W. S., and White.)
Whiteford, Carlton L., Brooklyn, N. Y. Ski. 2,164,604; July 4.
Whitehall Patents Corporation. (See Morin, Louis H., assignor.)
Whitehead, Richard H., New Haven, and J. F. Langebein, Hamden, assignors to The New Haven Clock Company, New Haven, Conn. Automobile clock. 2,164,976; July 4.
Whitehead Stamping Company. (See Zink, Fred W., assignor.)
Whitman, Henry L., Los Angeles, Calif. Alloy. 2,165,085;
Widger, Arthur W., et al. (See Norman, Joseph T., assignor.)
Wiessner, Alfred, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Loudspeaker arrangement. 2,164,977; July 4.
Wilber, Thomas S., Linden, N. J. Clothesline support. 2,164,437; July 4.
Wilbor, Oscar J. (See Guthrie, R. G., and Wilbor.)
Wilbur, William K., Bluefield, W. Va., and George C. Nelms, assignors to Portable Lamp & Equipment Company, Pittsburgh, Pa. Safety electric mine lamp. 2,165,193; July 4.
Wilbur, William K., Bluefield, W. Va., assignor to Portable Lamp & Equipment Company, Pittsburgh, Pa. Safety mine lamp. 2,165,194; July 4.
Wildhaber, Ernest, Irondequoit, assignor to Gleason Works, Rochester, N. Y. Method of and machine for grinding gears. 2,164,978; July 4.
Wilhelm, Karl, Berlin-Tempelhof, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Tuning indicator circuit. 2,164,979; July 4.
Wilkinson, Edward W., and G. D. Hurd, assignors to L. B. Evans' Son Company, Wakefield, Mass. Shoe. 2,165,188; July 4.
Williams, John, Philadelphia, Pa. Piston ring and expander. 2,164,849; July 4.
Williams, Roger. (See West, Jarold R., assignor.)
Willner, Ernest A., Sr., Lincoln, Nebr. Placer gold concentrator and amalgamator. 2,164,364; July 4.
Willoughby, Victor, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car spring bumper and drawhead. 2,164,558; July 4.
Willoughby, Victor Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y. Mine car bumper. 2,164,859; July 4.
Wilson, Ernest E., Huntington Woods, assignor to General Motors Corporation, Detroit, Mich. Compound resonance unit. 2,164,365; July 4.
Wilson-Jones Company. (See Unger, Paul O., assignor.)
Wilson Supply Company. (See Nixon, Jeddy D., assignor.)
Wilson, Walter G., Westminster, London, England. Epicyclic power transmission mechanism. 2,164,729; July 4.
Wilson, Wesley, Chicago, Ill. Fixture connector. 2,164,366; July 4.
Wilson, William S., Boston, and A. J. Lobdell, Jr., Woburn, Mass., assignors, by mesne assignments, to Monsanto Chemical Company. Manufacture of sodium aluminate. 2,165,187; July 4.
Wilson, William S., Brookline, and J. F. White, Somerville, Mass., assignors, by mesne assignments, to Monsanto Chemical Company. Manufacture of normal ferric sulphate. 2,165,189; July 4.
Winkelmann, Herbert A., and E. W. Moffett, Chicago, and W. C. Calvert, Oak Park, Ill., assignors to Marbon Corporation. High temperature reaction products. 2,164,367; July 4.
Winkelmann, Herbert A., Chicago, assignor to Marbon Corporation, Chicago, Ill. Gasket composition. 2,164,368; July 4.
Winograd, Harold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric valve control system. 2,164,792; July 4.
Winter, Carl, and N. Roh, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Polymethine dyestuffs. 2,164,793; July 4.
Wiremold Company, The. (See Rutherford, Charles E., assignor.)
Woermann, Jacob, Glendale, Long Island, N. Y. Film mutilator. 2,164,980; July 4.
Wolfe, Joseph A., Seattle, Wash. Detachable side panel for beds. 2,164,484; July 4.
Woller, Edward E., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Article of furniture. 2,164,438; July 4.
Wood Newspaper Machinery Corporation. (See Tornberg, Isidor, assignor.)
Wood, William H., South Euclid, and O. C. Trautman, Parma, assignors to Ira Crouse, Conneaut, Ohio. Conditioning chrome alloy wire and apparatus for the practice of said method. 2,164,850; July 4.
Woolever, Harold E., assignor of one-half to Pioneer Wrapper and Printing Co., Los Angeles, Calif. Bib. 2,164,369; July 4.
Worth Company, The. (See Nampa, Sulo M., assignor.)
Wright, George M., Woodham Ferrers, England, assignor to Radio Corporation of America. Thermionic valve circuit arrangement. 2,164,559; July 4.
Wünsche, Otto, Berlin, Germany, assignor to General Electric Company. Automatic controller. 2,165,119; July 4.
Wurtele, Allan R., Mix, La. Internal combustion engine. 2,164,439; July 4.
Wurzburg, Francis L., Jr., Bronxville, assignor to Interchemical Corporation, New York, N. Y. Determining the primaries in a system of color reproduction by printing. 2,165,169; July 4.
Wyler, Joseph A., assignor to Trojan Powder Company, Allentown, Pa. Preparation of trimethyloinitromethane. 2,164,440; July 4.

Yabroff, David L., Berkeley, and E. R. White, Albany, assignors to Shell Development Company, San Francisco, Calif. Separating mercaptans contained in a hydrocarbon liquid. 2,164,851; July 4.
Yantis, Roy C., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Slip clutch device. 2,164,485; July 4.
Yarian, James L., assignor to Montgomery Ward & Co., Incorporated, Chicago, Il. Starting mechanism for explosive engines. 2,164,673; July 4.
Young, Fred M., Racine, Wis. Radiator bypass device. 2,164,605; July 4.
Zabel, William P. (See Krejci, R. F., and Zabel.)
Zerbe, Frederick K. (See Needham, H. H., Schmidtz, and Zerbe.)
Ziegler, Henry M., Salina, Kans. Hot box detector and signal appliance. 2,164,674; July 4.
Ziemmerman, Henry, assignor to Chicago Cardboard Company, Chicago, Ill. Folding display. 2,164,860; July 4.
Zimmerman, Richard, Lawrence, Kans. Imprinting system for printing presses. 2,164,852; July 4.
Zink, Fred W., assignor to Whitehead Stamping Company, Detroit, Mich. Carrier for rope, wire, and the like. 2,165,021; July 4.
Zinkil, Roy H., Oak Park, assignor to Crane Co., Chicago, Ill. Thermostatically operating device. 2,165,171; July 4.
Zuckerman, Adolph M., assignor to R. Hoe & Co., Inc., New York, N. Y. Folder for printing machines. 2,164,370; July 4.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Automobile. J. Haltenberger. Re. 21,138; July 4.
Materials, Process and mechanism for dividing intermixed. K. Davis. Re. 21,136; July 4.
Organ. F. A. Firestone. Re. 21,137; July 4.
Tank with floating roof, Liquid storage. O. A. Bailey. Re. 21,135; July 4.
Valve for boilers, Automatic feed water. R. Mahler. Re. 21,140; July 4.
Vehicle system, Motor. E. C. Horton. Re. 21,139; July 4.

LIST OF PLANT INVENTIONS

Rose, Hybrid tea. N. Grillo. 334; July 4.

LIST OF DESIGN INVENTIONS

Bank, Coin savings. J. Jacobs. 115,555; July 4.
Bank, Dime. J. Boros. 115,538; July 4.
Base for a display standard. H. A. Silvers. 115,528; July 4.
Belt, Cigarette. M. Silverman. 115,582; July 4.
Billfold. A. Brown. 115,579; July 4.
Boot. C. E. O'Donnell. 115,565; July 4.
Bottle. F. R. Hoch. 115,554; July 4.
Box, Fly. W. J. De Witt. 115,545; July 4.
Broiler. C. E. Zimmerman. 115,536; July 4.
Building. N. A. Owings. 115,507; July 4.
Building. O. H. Sowl. 115,577; July 4.
Burner, Oil. H. J. Sandlas, Jr. 115,568; July 4.
Cabinet and end table, Combined. A. A. Eisenberg. 115,489; July 4.
Cabinet, Combined storage and dispensing. J. Martial. 115,504; July 4.
Cabinet or similar article for smoking tobacco and game equipment. E. M. Williams. 115,535; July 4.
Case for typewriters, Carrying. J. Krüger. 115,560; July 4.
Case, Piano. W. M. Day. 115,513; July 4.
Casing for thermometers or the like, Dial. G. E. Ford. 115,547; July 4.
Casing, Motor. J. R. Morgan. 115,575; July 4.
Casing or the like, Bottle capper. E. W. Weston. 115,573; July 4.
Clip, Pen and pencil. F. C. Deli, and E. Petau. 115,544; July 4.
Clock. M. Harris. 115,553; July 4.
Closure, Slide fastener. R. Kay. 115,557; July 4.
Coat. G. E. Felger. 115,594–5; July 4.
Coat. M. Hirsch. 115,586; July 4.
Coat. L. Newman. 115,587–8; July 4.
Coat. F. Schwartz. 115,589–90; July 4.
Coat. C. Shapiro. 115,591–2; July 4.
Coat. J. A. Silverman. 115,593; July 4.
Comb or similar article, Hair dress. L. Twomey. 115,534; July 4.
Container and cover therefor for a food product, drinking cup or the like, Combined molded pulp. W. H. Randall. 115,523; July 4.
Container, Candy. T. H. Stough. 115,532–3; July 4.
Container for a food product, drinking cup, or the like, Molded pulp. W. H. Randall. 115,525; July 4.
Container, Transparent mothproof garment. W. R. Kohl. 115,502; July 4.
Counter, Display. E. L. Hayes. 115,495; July 4.
Desk unit, Combination. E. R. Posnack. 115,567; July 4.
Dish or article of similar nature, Glass relish. T. C. Heisey. 115,497; July 4.
Doll. T. Rembrecht. 115,576; July 4.
Dress. P. Fracchia. 115,597–9; July 4.
Dress. H. M. Harris. 115,585; July 4.
Dress. M. Hyman. 115,600; July 4.
Dress. M. N. Mayehoff. 115,601; July 4.
Dress ensemble. D. Beilinson. 115,583; July 4.
Envelope or similar package, Multiple. L. L. Salfisberg. 115,526; July 4.
Extractor, Fruit juice. J. F. Barnes, and J. O. Reinecke. 115,487; July 4.
Fabric or similar article, Textile. C. Rosenstein. 115,596; July 4.
Fabric, Textile. L. Bry. 115,488; July 4.
Fabric, Textile. D. W. Farnsworth. 115,490; July 4.
Fabric, Textile. J. Rubin. 115,581; July 4.
Fish lure. L. C. Strite. 115,571; July 4.
Fish lure, Artificial. R. Faulconer. 115,546; July 4.
Game board. A. F. Hamilton. 115,550; July 4.
Game board. E. Johnson. 115,556; July 4.
Goblet, Liquor. M. Moreau. 115,519–22; July 4.
Guard, Automobile grille. L. A. Koch. 115,559; July 4.
Handbag. S. R. Goldsmith. 115,548; July 4.
Handbag, Child's. M. J. Cohen and A. Wirklich. 115,541; July 4.
Handle for gas ranges. C. L. Hardwick. 115,551–2; July 4.
Handwheel. C. A. Olson. 115,566; July 4.
Holder, Tool. W. K. Linyard. 115,503; July 4.
Ice cream cone. B. Glass. 115,494; July 4.
Insulator, Porcelain. L. A. Stohl. 115,530; July 4.
Insulator, Porcelain. L. A. Stohl. 115,578; July 4.
Jacket. L. Cohen. 115,584; July 4.
Jar or similar container. G. Smith, Jr. 115,529; July 4.
Jug. J. L. Hendrickson. 115,516; July 4.
Jug or similar article, Water. W. T. Stopa. 115,531; July 4.
Knob. G. F. Bahr. 115,537; July 4.
Lamp. A. D. Olds. 115,505; July 4.
Lamp or similar article, Bicycle. B. J. Perry and R. P. Nomsen. 115,508; July 4.
Lifter for plates, dishes, or the like. M. W. Greenberg. 115,515; July 4.
Mixer, Beverage. A. U. Hook. 115,517; July 4.
Mixer, Dough. H. Van Doren. 115,511; July 4.
Musical instrument for playing bugle calls or the like. C. E. Barber. 115,512; July 4.
Ozone machine. J. E. Kenney. 115,500–1; July 4.
Piano. H. R. Heller. 115,498–9; July 4.
Plate or the like, Molded. W. H. Randall. 115,524; July 4.
Post, Fence. W. B. Caldwell and E. F. Peters. 115,540; July 4.
Ribbon. T. H. Kinney. 115,518; July 4.
Ring, Finger. A. Sager. 115,510; July 4.
Ring or the like, Finger. J. W. Orian. 115,506; July 4.
Sign, Display. G. L. Lee. 115,561; July 4.
Sign, Street. J. Le R. Greer. 115,549; July 4.
Spoon or other article of flatware. E. J. Conroy. 115,542; July 4.
Spoon or other article of flatware. A. G. Kintz. 115,558; July 4.
Spoon or other article of flatware. A. C. Kintz. 115,580; July 4.
Spoon or similar article. W. T. Brown. 115,539; July 4.
Spoon or similar article, Kitchen. W. Scrimgeour. 115,570; July 4.
Stand, Display. R. Redlich. 115,509; July 4.
Stove. F. H. Schneider. 115,569; July 4.
Stove or similar article. P. M. Forster. 115,491; July 4.
Support for coal and wood range or the like. J. R. Morgan. 115,563; July 4.
Teakettle, Glass. J. G. Francis. 115,514; July 4.
Tongs, Log. H. E. Havemeyer. 115,574; July 4.
Toy, Stuffed animal. L. L. Weiss. 115,572; July 4.
Truck, Library. E. R. Scudder. 115,527; July 4.
Tumbler. E. W. Fuerst. 115,492–3; July 4.
Tumbler. M. O. Hansen. 115,496; July 4.
Umbrella. J. Levin. 115,562; July 4.
Valve for a hot water heating system. E. S. Cornell, Jr. 115,543; July 4.
Vending machine. J. H. Newport, Jr. 115,564; July 4.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 4TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article. J. F. A. Davis. 2,164,800; July 4.
Abrasive product and making same, Water-resistant. C. R. Walker. 2,165,186; July 4.
Acid and its isomers, Production of ascorbic. R. Pasternack and P. P. Regna. 2,165,151; July 4.
Acid compounds, Diphenyl-diamino. E. A. Markush and J. Miller. 2,164,932; July 4.
Acid, Producing ascorbic. R. Pasternack and P. P. Regna. 2,165,184; July 4.
Acid, Purifying phosphoric. A. B. Hettrick. 2,165,100; July 4.
Acid treatment of cracked distillates. M. T. Kendall. 2,164,771; July 4.
Acids and preparing them, Amino-carboxylic. C. Platz and J. Rosenbach. 2,164,781; July 4.
Acoustic material. G. E. Hudson. 2,165,101; July 4.
Adhesive. W. Hentrich and R. Köhler. 2,164,585; July 4.
Adhesive tape. C. B. Strauch. 2,164,359; July 4.
Adjuster for swinging doors. A. Schneider. 2,164,948; July 4.
Adjusting device for photographic and cinematographic objectives. M. Brinck and W. Grönebaum. 2,164,695; July 4.
Agglomerates, Forming. J. F. W. Schulze. 2,164,950; July 4.
Air cleaning and conditioning apparatus. J. T. Norman. 2,164,833; July 4.
Air conditioner, Portable. M. Buck. 2,164,763; July 4.
Air conditioning apparatus for motor vehicles. R. L. Bunting. 2,164,566; July 4.
Air conditioning system. F. A. Ecott. 2,164,579; July 4.
Aircraft. A. R. Long. 2,164,414; July 4.
Airplane. J. P. Rogers. 2,164,545; July 4.
Airplanes, Control device for. J. G. Lee. 2,164,531; July 4.
Alarm and sprinkler head, Combination fire. J. O. Fortin. 2,164,611; July 4.
Alarm system, Fire. F. R. Bridges and F. E. Weld. 2,165,174; July 4.
Aligner. B. J. Beckwith. 2,164,853; July 4.
Aligner. G. Mafera. 2,164,615; July 4.
Alloy. A. W. Peterson. 2,164,938; July 4.
Alloy. H. L. Whitman. 2,165,085; July 4.
Altimeter, Settable. A. Urfer. 2,164,601; July 4.
Amines, Producing. R. H. McKee and C. T. Bahner. 2,164,587; July 4.
Amplifier, Intermediate frequency. C. D. Kentner. 2,164,745; July 4.
Amplifier, Wide band. W. Buschbeck. 2,164,899; July 4.
Amusement apparatus. A. W. Swenson. 2,164,361; July 4.
Anchorage apparatus. H. Rosenberg. 2,165,010–11; July 4.
Antiskid chain. R. C. Rueff and L. Hammond. 2,164,945; July 4.
Antiskid cross chain. J. Senft. 2,165,114; July 4.
Apparatus for applying mirror surface to the interior of lamp bulbs. M. E. Macksoud. 2,164,332; July 4.
Apparatus for evaporating and distilling. B. Fox and C. E. Ericson. 2,165,044; July 4.
Apparatus for fabricating structural elements. R. L. Burke. 2,164,567; July 4.
Apparatus for governing movement of hand controlled power transmission. H. F. Vickers. 2,164,971; July 4.
Apparatus for tunneling in consolidated material. L. F. Parker and H. L. Myer. 2,164,753; July 4.
Article of furniture. E. E. Woller. 2,164,438; July 4.
Articles by means of precoated grain, Making abrasive. A. G. Scutt. 2,164,476; July 4.
Automatic clutch. H. Nutt. 2,164,540; July 4.
Automobile jack. E. M. Pfauser. 2,164,621; July 4.
Automobiles in freight cars, Supporting and elevating. E. W. Henry and T. H. Everett. 2,164,456; July 4.
Bag: *See*—
Traveling bag.
Bag. M. M. Davenport. 2,164,641; July 4.
Bags, Apparatus for closing and sealing filled. R. N. and L. A. Cundall. 2,164,502; July 4.
Bags, Apparatus for filling, sewing, and sealing. R. N. and L. A. Cundall. 2,164,501; July 4.
Bait holder. J. B. Hadaway. 2,164,708; July 4.
Baking assembly. T. H. Gibson. 2,164,582; July 4.
Baking greasing method and product. I. de F. Savage. 2,165,154; July 4.
Balance, Spring sash. A. H. Kersting. 2,164,654; July 4.
Balancer for machine tools, Dynamic. J. C. Campbell. 2,164,900; July 4.
Ballast, Apparatus for cleaning. H. W. Protzeller. 2,165,068; July 4.
Batteries, Producing elements for dry. F. MacCallum. 2,165,061; July 4.
Battery, Galvanic. E. Marhenkel. 2,164,755; July 4.
Bauxite, Impregnation of. B. Barnes. 2,165,173; July 4.
Bearing for vehicles. J. P. Rock. 2,164,840; July 4.
Bearing pile construction. G. G. Greulich. 2,165,190; July 4.
Bearings, Making. H. P. Ford. 2,164,737; July 4.
Bearings, Making journal. G. R. Coleman. 2,164,902; July 4.
Beer dispensing apparatus. J. Z. Kornblatt. 2,164,714; July 4.
Belt connector. G. I. Welsh. 2,165,020; July 4.
Bib. H. E. Woolever. 2,164,369; July 4.
Binder, Double duty. W. H. Knox and W. Graham. 2,164,746; July 4.
Binder, Loose leaf. R. S. Brown. 2,164,496; July 4.
Binder, Loose leaf. D. McChesney and J. Cooper. 2,164,659; July 4.
Binder, Loose leaf. P. O. Unger. 2,164,967; July 4.
Blade or wing for aircraft, Rotary. J. A. J. Bennett. 2,164,678; July 4.
Blank, Nut lock. W. A. Bergstrom. 2,164,305; July 4.
Blanket or plaid, Bed. E. H. Wallin. 2,164,848; July 4.
Blanket winding for a printing cylinder. I. Tornberg. 2,164,480; July 4.
Blind, Venetian. S. Udstad. 2,164,556; July 4.
Block: *See*—
Scotch block. Snatch block.
Block or conduit forming apparatus. D. Shaw. 2,164,953; July 4.
Block system. M. H. Loughridge. 2,164,331; July 4.
Blowpipe. R. L. Wagner. 2,164,972; July 4.
Blue print coating. G. P. Ham. 2,165,166; July 4.
Board: *See*—
Stock quotation board.
Bolt cushioning device. H. O. Elane. 2,165,093; July 4.
Bomb release mechanism. H. F. Vickers. 2,164,672; July 4.
Bore hole, Method and apparatus for identifying the nature of the formations in a. C. Schlumberger. 2,165,013; July 4.
Bottles, Capping. M. T. Curtin. 2,165,132; July 4.
Box: *See*—
Handle box. Reinforced box.
Mail box.
Box blanking machine. M. A. Waters. 2,164,436; July 4.
Box lid, Journal. O. C. Duryea. 2,164,644–5; July 4.
Bracelet or the like. N. Levy. 2,164,657; July 4.
Brake: *See*—
Electromagnetic brake. Hydraulic brake.
Brake. C. A. Snider. 2,164,844; July 4.
Brake construction. F. L. Main. 2,164,878; July 4.
Brake hanger. F. Schaefer. 2,164,474; July 4.
Brake lever extension. G. F. Bahr. 2,164,692; July 4.
Brake mechanism. C. F. Baisch. 2,164,866; July 4.
Braking device for vehicles, Auxiliary. H. Owen. 2,164,834; July 4.
Brewers, Apparatus for use with coffee. R. R. McLeod. 2,164,619; July 4.
Bridge relay arrangement, Wheatstone. T. A. Cohen. 2,164,701; July 4.
Brush. R. Marvin. 2,164,617; July 4.
Brush, Fountain. S. D. Selwyn. 2,164,432; July 4.
Brush, Fountain stencil. A. Botts. 2,164,895; July 4.
Bucket, Clam shell. C. P. De Blasi. 2,164,988; July 4.
Buckle. W. W. Dillon. 2,164,733; July 4.
Building construction and building element. F. R. Hahn. 2,164,322; July 4.
Building covering. E. R. Black. 2,164,636; July 4.
Building covering member. G. Snyder. 2,164,725; July 4.
Bumper and draft gear, Dual action spring. R. A. Shields. 2,164,594; July 4.
Bumper and drawhead, Mine car spring. V. Willoughby. 2,164,558; July 4.
Bumper, Mine car. V. Willoughby. 2,164,859; July 4.
Burner: *See*—
Fuel burner. Gas burner.
Bushing, Steering column. J. D. Chamberlin. 2,164,497; July 4.
Button. H. Chalfin. 2,164,386; July 4.
Cabinet: *See*—
Refrigerator cabinet.
Cabinet. R. S. Ashbery. 2,165,122; July 4.
Calcium carbonate, Preparation of. H. Roderick. 2,164,943; July 4.
Calcium cyanamid, Treatment of crude. G. E. Cox and W. G. McBurney. 2,164,986; July 4.
Can: *See*—
Milk can.
Can handling tool. V. L. Stathem. 2,165,159; July 4.

Capacitor and compositions therefor, Electric. F. M. Clark. 2,165,091; July 4.
Cap: *See*—
  Radiator pressure cap.
Caps, Manufacture of rubber. P. A. Raiche. 2,164,885; July 4.
Car loading device. S. M. Nampa. 2,164,661–2; July 4.
Car scotch, Mine. C. H. Mead. 2,164,999; July 4.
Carbon moving and controlling device. S. Nickelsburg. 2,165,183; July 4.
Card holder. M. E. Graunke. 2,164,318; July 4.
Card punching machine and checking system, Multiple. J. P. Buckley. 2,164,698; July 4.
Carrier for rope, wire, and the like. F. W. Zink. 2,165,021; July 4.
Carton. H. L. Greve. 2,164,517; July 4.
Carton. W. A. Ringler. 2,164,346; July 4.
Carton, Paperboard. C. P. Wellman. 2,165,083; July 4.
Casing pick-up elevator. W. W. Smith. 2,164,843; July 4.
Catheter stylet. A. Kleine. 2,164,926; July 4.
Cathode, Indirectly heated. F. D. Goodchild. 2,164,913. July 4.
Cathode ray deflection apparatus, Electromagnetic. R. Andrieu. 2,164,891; July 4.
Cathode ray tube. R. Truell. 2,164,555; July 4.
Cellulosic products, Production of. A. Marschall. 2,164,416; July 4.
Cement composition for mason's mortar. A. C. Eichenlaub. 2,164,871; July 4.
Chain: *See*—
  Antiskid chain. Antiskid cross chain.
Chair: *See*—
  Theater chair.
Chart, Music. H. A. Everson. 2,164,873; July 4.
Chassis of motor-driven vehicles. J. Dauben. 2,165,033; July 4.
Cheese, Method and apparatus for forming. T. Petersen. 2,165,005; July 4.
Chest, Cold. M. Banke. 2,164,677; July 4.
Chute, Vibratory. K. C. Appleyard and S. D. Pollitt. 2,164,676; July 4.
Cigarettes, Manufacture of. A. Podmore. 2,164,423; July 4.
Circuit: *See*—
  Electrical circuit. Tuning indicator circuit.
Circuit arrangement, Thermionic valve. G. M. Wright. 2,164,559; July 4.
Circuit breaker. C. V. Dame. 2,164,388; July 4.
Circuit control and current control system. A. B. Rypinski. 2,164,349; July 4.
Circuits, Coupling. T. P. Kinn. 2,165,058; July 4.
Circuits for cathode ray tubes, Safety. M. W. Baldwin, Jr. 2,165,025; July 4.
Circuits, Transmission. H. Nyquist. 2,164,752; July 4.
Circulating head, Wire line rotatable. J. F. Bozeman. 2,164,606; July 4.
Clamp for concrete wall forms. C. Pilj. 2,164,592; July 4.
Cleaner: *See*—
  Pipe cleaner. Tube and pipe cleaner.
Clearance adjuster for brakes. G. L. Smith. 2,165,076; July 4.
Clip: *See*—
  Hair clip.
Clock, Automobile. R. H. Whitehead and J. F. Langebein. 2,164,976; July 4.
Closure and dispensing device, Combined. E. P. Edwards. 2,164,314–15; July 4.
Closure controlling device. B. F. Stannard. 2,164,358; July 4.
Clothesline support. T. S. Wilber. 2,164,437; July 4.
Clutch: *See*—
  Automatic clutch. Friction clutch.
Clutch control mechanism. G. F. Houston. 2,164,923; July 4.
Clutch control mechanism. F. P. Keiper. 2,164,865; July 4.
Clutch device, Slip. R. C. Yantis. 2,164,485; July 4.
Coal, Method and apparatus for feeding. B. M. Bird. 2,164,796; July 4.
Coal treating process and apparatus. L. C. Karrick. 2,165,143; July 4.
Cock or the like, Gas. E. H. Mueller. 2,164,419; July 4.
Coffee leacher. E. E. Granger. 2,164,399; July 4.
Coil, Refrigerant. E. W. Kretschmer. 2,164,656; July 4.
Collar and combination of shirt and detachable collar. M. M. Newman. 2,164,751; July 4.
Collar holder. R. Moore. 2,164,831; July 4.
Color reproduction. A. C. Hardy. 2,165,167–8; July 4.
Coloring matter of the anthraquinone series, Purifying and dispersing. K. J. Schwing. 2,164,952; July 4.
Comb. O. B. Carson. 2,164,385; July 4.
Comb, Fountain. P. Bankston. 2,164,442; July 4.
Combination lock. J. Pfendner. 2,165,067; July 4.
Combustion and gas mixing assembly for gas circulating systems. T. J. Stephens. 2,164,954; July 4.
Combustion apparatus. R. A. Foresman. 2,164,510; July 4.
Communicating system. J. R. MacKay. 2,165,062–3; July 4.
Compensating-duct system. H. A. Faber. 2,164,394; July 4.
Composite structure and making the same. D. S. Hubbell. 2,164,457; July 4.
Composition of matter and methods and steps of making and using the same. M. T. Harvey. 2,164,326; July 4.
Compositions of matter and methods and steps of making and using the same. M. T. Harvey. 2,165,140; July 4.
Condensing, Method of and apparatus for. F. R. Kemmer. 2,164,410; July 4.
Confections, Manufacture of. H. E. Bianchi. 2,163,579; July 4.
Connector: *See*—
  Belt connector. Fixture connector.
  Electrical connector.
Connector. W. A. Harrington. 2,164,612; July 4.
Constant-capacity feeder. E. V. Francis and J. A. Flint. 2,164,812; July 4.
Contact to copper-oxide rectifiers, External. L. T. Bourland. 2,165,029; July 4.
Container: *See*—
  Freight container. Tubular container.
  Slide-cover container.
Container. H. A. Enrich. 2,164,506; July 4.
Container. H. D. Schrier. 2,164,354; July 4.
Container for pills, capsules, and the like. F. J. Peterson and E. A. Russell. 2,164,719; July 4.
Container for tubes and bulbs. W. A. Ringler. 2,165,070; July 4.
Control and ignition means for multiple gas burners, Safety. E. W. Roberts and T. L. Ferrall. 2,164,887; July 4.
Control device for dump rakes. J. H. McAfee. 2,165,110; July 4.
Control for temperature regulating systems and the like. G. F. Drake. 2,164,312; July 4.
Control mechanism for milling machines, Operating. L. F. Nenninger and E. G. Roehm. 2,164,884; July 4.
Control mechanism for motor vehicles. C. A. Brewer. 2,164,897; July 4.
Control system. P. S. Dickey and J. F. Shannon. 2,165,175; July 4.
Control system. E. J. Rasmusson. 2,165,111; July 4.
Control system. H. L. Sargent. 2,164,352; July 4.
Control system for converters. L. Filberich, O. Schiele, and K. Seethaler. 2,165,041; July 4.
Control system, Remote. G. W. Baughman. 2,164,893; July 4.
Control tube, Cross field. H. E. Hollmann. 2,164,922; July 4.
Controller, Automatic. O. Wünsche. 2,165,119; July 4.
Controller-remotely adjustable, Electrical reversing. A. A. Stein. 2,164,958; July 4.
Conveyer. H. P. Knight and T. B. Franklin. 2,164,713; July 4.
Conveyer for heated material, Steel mill. J. E. McBride. 2,164,535; July 4.
Conveyer for locomotive stokers. E. Martin. 2,165,109; July 4.
Copy holder carriage. P. G. Flores. 2,165,042; July 4.
Core drilling apparatus. J. E. Hoffoss. 2,164,652; July 4.
Core taking apparatus. F. Thrift. 2,164,598; July 4.
Corrosion inhibitor. E. C. Britton, H. S. Nutting, and P. S. Petrie. 2,164,564; July 4.
Coupler, Tight-lock car. H. E. Van Dorn. 2,164,969; July 4.
Coupling: *See*—
  Pipe coupling.
Coupling. F. A. Clarke. 2,164,447; July 4.
Coupling device. W. Scheppmann. 2,164,947; July 4.
Coupling for tubes, Flexible. A. L. Parker. 2,164,471; July 4.
Coupling means for locomotive and the like. W. R. Elsey. 2,164,703; July 4.
Cover and flexible joint, Combined socket. B. A. Dickerson. 2,164,389; July 4.
Cover structure for smoking pipes. D. P. Lavietes. 2,164,929; July 4.
Cowl, Chimney. E. W. Cover. 2,164,987; July 4.
Cradle for disk harrows, Transport. A. N. Steward. 2,164,550; July 4.
Cream, Brushless shaving. W. Kritchevsky. 2,164,717; July 4.
Crossing protective system. J. M. Evans. 2,164,610; July 4.
Cup dispenser, Conical. S. N. Hope. 2,164,406; July 4.
Cup, Turpentine. E. E. Prance and J. E. Sheffield. 2,164,675; July 4.
Current transformer, Direct. M. I. Topalov. 2,164,964; July 4.
Curtain fabric. H. T. Marshall. 2,164,998; July 4.
Cut-out, Electric. R. S. Bennett. 2,164,983; July 4.
Cut-out, Electric. G. F. Lincks. 2,164,994; July 4.
Cut-out, Electric. L. P. Sohles. 2,165,015; July 4.
Cutter: *See*—
  Tooth cutter.
Cutter and punch, State. H. L. Parsons and S. Schwork. 2,164,688; July 4.
Cutter bar for dry shavers. J. H. Rand, Jr., and R. E. Benner. 2,164,424; July 4.
Cutter for stub ball joint, Broaching. W. A. Hart. 2,164,874; July 4.
Cutting-off machine. H. J. White. 2,165,118; July 4.
Cutting tool. J. M. Christman. 2,164,570–1; July 4.
Damper control. A. D. Cole. 2,164,607; July 4.
Decomposition product of the epidermis of hogs, etc., Hydrolytic. C. H. Campbell. 2,164,798; July 4.
Decorticator. H. T. McGill. 2,164,338; July 4.

Deep well pump. W. S. Whitcomb. 2,164,975; July 4.
Defecator. W. C. Groeniger. 2,164,321; July 4.
Derrick construction. A. D. Rhodes. 2,164,427; July 4.
Derrick leg footing. A. D. Rhodes. 2,164,428; July 4.
Desk lamp. T. W. Rolph. 2,164,546; July 4.
Device for discharging explosive or combustible charges. R. A. Coffman. 2,164,700; July 4.
Device for simultaneously spinning and twisting artificial silk threads. K. Berndt. 2,164,376; July 4.
Device for the removal of burs from metal surfaces. F. L. Green. 2,164,741; July 4.
Dial indicator. J. G. Sisson. 2,165,017; July 4.
Diamines, Di (amino-aroyl) alkylene. S. S. Rossander and C. W. Croco. 2,164,787; July 4.
Die: *See*—
  Drawing and extrusion die. Lens die.
Die. B. W. Freeman. 2,164,452; July 4.
Die. H. Rosenberg. 2,165,008; July 4.
Die and the art of forming anchorage instruments. H. Rosenberg. 2,165,009; July 4.
Discharge device. F. H. A. Brandt. 2,164,307; July 4.
Discharge tube. W. Espe. 2,164,507; July 4.
Disinfecting process. W. H. Engels. 2,164,316; July 4.
Dispenser: *See*—
  Cup dispenser. Powder dispenser.
Display rack. L. L. Levering. 2,165,108; July 4.
Display sign. J. H. Hammond, Jr. 2,164,917; July 4.
Display stand. C. H. Goodyear. 2,164,454; July 4.
Domestic appliance. F. H. Peters. 2,165,003; July 4.
Door construction, Garage. W. D. Ferris. 2,164,648; July 4.
Dowel means for roadway joints. J. M. Oates. 2,164,590; July 4.
Draft producing apparatus. G. A. Merkt. 2,164,880; July 4.
Drawing and extrusion die. J. G. Nadler, Jr. 2,164,750; July 4.
Dressing, Wound. C. B. Strauch. 2,164,360; July 4.
Drier for photographic prints and the like. R. M. Lynn. 2,164,614; July 4.
Drilling device. W. A. Ross. 2,164,348; July 4.
Drive for winding apparatus, Hydraulic. R. Tyler. 2,164,600; July 4.
Drive, Hydraulic. R. Tyler. 2,164,599; July 4.
Drive, Winder. P. Simonds. 2,164,596; July 4.
Driving and control mechanism for turrets. B. N. Foster and F. L. Fisher. 2,164,396; July 4.
Duplicating machine. F. R. Ford. 2,164,707; July 4.
Duplicating machine. P. A. Stephenson. 2,164,549; July 4.
Dye, Azo. H. Jordan and S. S. Rossander. 2,164,524; July 4.
Dyes and producing the same on the fiber, Developable azo. S. S. Rossander. 2,164,786; July 4.
Dyes, Azo. S. S. Rossander. 2,164,785; July 4.
Dyestuffs and intermediates of the anthraquinone series, Preparation of. W. L. Rintelman and W. Dettwyler. 2,164,784; July 4.
Dyestuffs and preparing them, Chromiferous. W. Eckert. 2,164,767; July 4.
Dyestuffs, Polymethine. C. Winter and N. Roh. 2,164,793; July 4.
Dyestuffs, Reducing vat. H. A. Lubs. 2,164,930; July 4.
Electric discharge apparatus. F. H. Gulliksen. 2,165,048; July 4.
Electric mine lamp, Safety. W. K. Wilbur and G. C. Nelms. 2,165,193; July 4.
Electric motor. E. L. Barrett. 2,164,633; July 4.
Electric steam generator. G. W. Watson. 2,164,482; July 4.
Electrical apparatus, Apparatus for the manufacture of. P. H. Brace. 2,165,031; July 4.
Electrical circuit. G. Guanella. 2,164,402; July 4.
Electrical conductor and insulating material therefor. S. W. Alderfer. 2,164,981; July 4.
Electrical connector. W. T. Bradley. 2,164,381; July 4.
Electroacoustical apparatus. A. J. Sanial. 2,164,756; July 4.
Electrode holding device. E. Schwartz. 2,164,951; July 4.
Electrode support. P. T. Smith. 2,164,477; July 4.
Electrode support. N. R. Smith. 2,164,547; July 4.
Electrode, Wire. L. P. Garner. 2,165,135; July 4.
Electrodes, Coating. K. Siebertz. 2,164,595; July 4.
Electrolytic capacitor. A. T. Harding. 2,164,742; July 4.
Electromagnet. D. Ellis and G. C. Armstrong. 2,165,037 July 4.
Electromagnetic brake. H. E. Hodgson. 2,164,521; July 4.
Electron discharge device. R. U. Clark. 2,164,699; July 4.
Electron discharge tube. A. G. Clavier. 2,164,905; July 4.
Electronic discharge tube. A. Gaebel and A. Katsch. 2,164,910; July 4.
Electro-optical device for controlling light. L. M. Myers. 2,164,539; July 4.
Electroplating. F. A. Hatch. 2,164,710; July 4.
Electroplating. R. O. Hull. 2,164,924; July 4.
Emulsions. W. Schrauth and K. Stickdorn. 2,164,723; July 4.
Enamels, Preparing. K. Frank and F. Osterloh. 2,165,134; July 4.
Engine: *See*—
  Internal combustion engine
Engine with blower, Internal combustion. M. L. Fast. 2,164,451; July 4.
Engines or the like by means of electric motors, System for starting internal combustion. A. Gachon. 2,164,909; July 4.
Envelope. V. J. Sawdon. 2,165,195; July 4.
Enzyme preparation. H. C. Gore, G. Kirby, and C. N. Frey. 2,164,914; July 4.
Eraser attachment, Adjustable. W. W. Smith. 2,164,433; July 4.
Esters of anthraquinone selenazoles, Leuco sulphuric acid. M. A. Prahl. 2,164,783; July 4.
Esters of heterocyclic monocarboxylic acids. H. R. Slagh. 2,164,357; July 4.
Esters of 1,4-dioxanediol-2,3. H. R. Slagh. 2,164,356; July 4.
Esters of 1,4-dioxanediol-2,3 and 1,4-dioxanecol-2-chloro-3. H. R. Slagh. 2,164,355; July 4.
Ethers suitable as dispensing agents and of preparations therefrom, Production of. C. Schoeller and J. Nuesslein. 2,164,431; July 4.
Evaporator. T. B. R. Peters. 2,165,004; July 4.
Extrusion. J. E. Ganoe. 2,164,397; July 4.
Fabric: *See*—
  Curtain fabric. Textile fabric.
  Knitted fabric.
Fabric. T. B. Coughlin. 2,164,499; July 4.
Fabric, Method and apparatus for making wire. J. K. Watkins. 2,164,481; July 4.
Fabrics and the like, Apparatus for cleaning. A. Traube. 2,164,965; July 4.
Fan. H. T. Reynolds. 2,165,069; July 4.
Fasteners, Forming ribbed. H. Rosenberg. 2,165,007; July 4.
Fastening-inserting machine. A. Neumann. 2,164,468; July 4.
Fastening means. A. E. McNabb. 2,164,464; July 4.
Faucet protector, Sanitary automatic. C. M. Simmons. 2,164,666; July 4.
Feed table. G. Spiess. 2,165,161; July 4.
Feeder: *See*—
  Constant-capacity feeder.
Feeder. A. Amstutz. 2,165,121; July 4.
Feeding device, Automatic. G. Spiess. 2,165,160; July 4.
Feet to cast iron frames, Attachment of steel. J. L. Brown. 2,165,032; July 4.
Ferric sulphate, Manufacture of normal. W. S. Wilson and J. F. White. 2,165,189; July 4.
Filaments, Apparatus for manufacturing. R. F. Krejci and W. P. Zabel. 2,165,105; July 4.
Filling machine. O. Larsen. 2,164,530; July 4.
Film, Apparatus for treating cinematographic. F. W. Jackman. 2,164,653; July 4.
Film guiding means. E. M. Berndt. 2,164,375; July 4.
Film mutilator. J. Woermann. 2,164,980; July 4.
Filter: *See*—
  Wave filter.
Fishhook. E. W. Evans. 2,164,807; July 4.
Fishhook disgorging device. A. B. Falkner. 2,164,907; July 4.
Fish lure. H. Mallett. 2,164,415; July 4.
Fish lure. J. H. Saarela. 2,165,071; July 4.
Fixture connector. W. Wilson. 2,164,366; July 4.
Flare. W. B. Larson. 2,164,613; July 4.
Flaws in metallic bodies, Method and apparatus for detecting. W. C. Barnes and H. W. Keevil. 2,164,302; July 4.
Flexible parking sign. H. H. Donovan. 2,164,680; July 4.
Float valve. C. J. Kohler. 2,164,927; July 4.
Flow mechanism, Proportional. D. J. Purdie. 2,165,153; July 4.
Fluid circulator. E. Babcock. 2,164,863; July 4.
Fluid dispensing system. R. E. Bechtold. 2,164,441; July 4.
Fluid lift. J. D. Nixon. 2,164,469; July 4.
Fluid meter. E. Thoresen. 2,164,671; July 4.
Fluid operated switch. M. Katcher. 2,164,821; July 4.
Flush valve. H. Wesson. 2,164,760; July 4.
Flux, Welding. W. B. Miller. 2,164,775; July 4.
Folder for printing machines. A. M. Zuckerman. 2,164,370; July 4.
Folding display. H. Ziemmerman. 2,164,860; July 4.
Foods, Freezing. R. B. Taylor. 2,164,362; July 4.
Fountain for duplicating painting machines. A. M. Hardin. 2,165,139; July 4.
Freight container, Demountable. B. F. Fitch. 2,164,317; July 4.
Friction clutch. H. V. Reed. 2,164,544; July 4.
Frost preventing machine. L. E. and V. H. Nelson. 2,165,148; July 4.
Fuel briquettes, Baking. H. F. Maurel. 2,164,933; July 4.
Fuel burner. A. A. Kucher. 2,165,191; July 4.
Fuel into internal combustion engines, Injecting. J. G. Kimmel. 2,164,684; July 4.
Fuel, Production of motor. E. M. Marks. 2,164,334; July 4.
Fuels, Sweetening high-sulphur motor. T. H. Rogers and B. H. Shoemaker. 2,164,665; July 4.

Furnace: *See*—
Oil burning furnace.
Furnace, Controlling the operation of a. J. C. Miles. 2,164,882; July 4.
Furniture, Article of. W. J. Bargen. 2,165,125; July 4.
Furniture, Convertible. V. M. Krainbill. 2,164,715; July 4.
Fuse construction. W. O. Schultz. 2,165,156; July 4.
Fuse for projectiles, Percussion. M. Birkigt. 2,164,797; July 4.
Fuse indicator and puller. L. P. Lyon. 2,164,658; July 4.
Game. J. C. Kocl. 2,165,059; July 4.
Game apparatus. H. M. Keith. 2,164,682; July 4.
Game apparatus, Skill dart. L. E. Moss. 2,165,147; July 4.
Game, Golf. B. A. Everett. 2,164,808; July 4.
Game of skill. J. Mahawash. 2,165,145; July 4.
Garbage, ash, and refuse disposal and land reclamation process. L. M. McCarthy. 2,164,536; July 4.
Garden tool. H. Ayliffe. 2,164,373; July 4.
Garment. F. C. Kessler. 2,164,683; July 4.
Garment hanger. B. F. Clark and V. D. Humbert. 2,165,129; July 4.
Garment hanger. W. W. Keys. 2,164,525; July 4.
Garment hanger. B. T. Petty. 2,164,420; July 4.
Garment hanger. F. A. Rentchler. 2,164,941; July 4.
Garment hanger. C. Sadowsky. 2,165,072; July 4.
Gas and water regulator, Automatic. O. W. Hahn. 2,164,323; July 4.
Gas burner. G. W. McKee. 2,164,417; July 4.
Gases, Reforming. R. G. Guthrie and O. J. Wilbor. 2,164,403; July 4.
Gasket compositions. H. A. Winkelmann. 2,164,368; July 4.
Gaskets, Making metal covered. W. Claypoole. 2,164,764; July 4.
Gear: *See*—
Bumper draft gear.
Gear shifting mechanism for motor vehicles. H. W. Hey. 2,164,990; July 4.
Gearing, Frictional transmission. F. Götz. 2,164,516; July 4.
Gears, Method of and machine for grinding. E. Wildhaber. 2,164,978; July 4.
Generator: *See*—
Electric steam generator.
Saw-toothed wave form generator.
Gold concentrator and amalgamator, Placer. E. A. Willner, Sr. 2,164,364; July 4.
Grinding and polishing machine. R. W. Fuller. 2,165,097; July 4.
Grinding, Fine. V. L. Johnson. 2,164,409; July 4.
Grinding machine. C. Herfurth. 2,164,875; July 4.
Grinding wheel. A. P. Beebe. 2,164,560; July 4.
Guard, Dust. R. H. Kimball. 2,165,102; July 4.
Guardrail for railway cars, Folding. J. J. McBride. 2,164,586; July 4.
Guide for rolling mills, Strip. C. J. Klein. 2,165,104; July 4.
Gun mount and flush protective shield therefor, Aircraft. J. C. Sanders. 2,164,722; July 4.
Hair clip. B. Polák. 2,164,940; July 4.
Hair curling device. R. J. Crawford. 2,164,387; July 4.
Hairpin holder. A. E. Posner. 2,164,623; July 4.
Handle assembly, Door. M. B. Andrie. 2,164,486; July 4.
Handle box. A. Berke. 2,164,561; July 4.
Handles, Method and apparatus for forming parcel. F. H. Meyer. 2,164,935; July 4.
Hanger: *See*—
Brake hanger.
Garment hanger.
Lighting fixture hanger.
Scaffold hanger.
Hanger. J. A. Smith. 2,165,157; July 4.
Hardening, Apparatus for. F. S. Denneen and W. C. Dunn. 2,164,310; July 4.
Harness control. E. Messer. 2,165,000; July 4.
Harrow, Disk. D. F. Taylor. 2,164,963; July 4.
Head lamp, Portable electric. W. F. Koepke. 2,164,529; July 4.
Heat exchange device. F. J. Fette. 2,165,094; July 4.
Heater: *See*—
Hot air heater.
Heater. H. A. Bertossa. 2,164,377; July 4.
Heater. E. C. Booth, E. Ludlow, and R. C. Root. 2,164,854; July 4.
Heater and scrubber, Feed water. E. C. R. Weisgerber. 2,164,974; July 4.
Heating and air conditioning system. J. T. Norman. 2,164,718; July 4.
Heating plate device. R. S. Goldthwaite. 2,164,650; July 4.
Heating system. F. A. Furlong. 2,164,511–12; July 4.
Helices, Process of and apparatus for manufacturing. A. Braun. 2,164,679; July 4.
Hinge, Concealed. J. Soss. 2,164,757; July 4.
Hitch, Tractor harrow. J. M. Cruikshank. 2,164,577; July 4.
Holder: *See*—
Card holder.
Collar holder.
Hairpin holder.
Match holder.
Mop holder.
Paper holder.
Sash holder.
Holder for hosiery or the like. H. P. Luhn. 2,164,534; July 4.
Holder for saucepans, Spoon. G. K. Forbes. 2,164,649; July 4.
Hone. H. L. Blood. 2,164,867; July 4.
Honing mechanism and control means therefor, Automatic. C. W. Floss. 2,164,811; July 4.
Hopper. G. Kohlhardt. 2,164,824; July 4.
Hopper and seed distributing mechanism for seed planters. R. Mann. 2,164,333; July 4.
Hopper for pulverized materials, Feed. J. Watson and H. T. Lamb. 2,164,483; July 4.
Hot box detector and signal appliance. H. M. Ziegler. 2,164,674; July 4.
Hot air heater. E. Esson. 2,165,038; July 4.
Hot blast valve. W. Eaton and J. C. Hayes. 2,165,036; July 4.
Hydraulic brake. B. A. Swennes. 2,164,551; July 4.
Hydraulic force pump. J. G. Elmore. 2,164,580; July 4.
Hydraulic vane motor. H. Horlacher. 2,164,876; July 4.
Hydrocarbons, Apparatus for the production of gaseous unsaturated. W. Baumann and O. Hemmann. 2,164,762; July 4.
Hydropneumatic jack. J. S. Frechette. 2,165,095; July 4.
Hygrothermostat. M. O. Snediker. 2,164,434; July 4.
Ignition system with stabilizer. D. W. Randolph and R. H. Mitchel. 2,164,472; July 4.
Image transmission, Electrical. F. C. P. Henroteau. 2,164,520; July 4.
Imprinting system for printing presses. R. Zimmerman. 2,164,852; July 4.
Indicating apparatus. D. C. McRae and J. C. Franklin. 2,164,588; July 4.
Indicating balancing machine. J. G. Baker and F. C. Rushing. 2,165,024; July 4.
Indicator: *See*—
Dial indicator.
Rate of strain indicator.
Inductor winding. E. M. Fraser. 2,164,738; July 4.
Insect repellent. H. R. Hay. 2,164,328; July 4.
Instrument for drawing blood. G. J. Kadavy. 2,164,711; July 4.
Insulating means. J. N. Hadjisky. 2,164,815; July 4.
Insulation for foundation structures, Insect. D. M. Muirhead. 2,165,192; July 4.
Internal combustion engine. N. Fodor. 2,165,176; July 4.
Internal combustion engine. C. D. Howard. 2,164,522; July 4.
Internal combustion engine. A. R. Wurtele. 2,164,439; July 4.
Internal combustion engine, Rotary. J. D. Lutschg. 2,164,462; July 4.
Invertase, Separation of. G. E. Miller and R. F. Light. 2,164,936; July 4.
Jack: *See*—
Automobile jack.
Hydropneumatic jack.
Jewel, Extensible. G. A. J. Bezault. 2,164,562; July 4.
Joint: *See*—
Pipe joint.
Sheet material joint.
Joint for dental brackets. B. A. Dickerson. 2,164,390; July 4.
Kick-out device for fastener-attaching machines. O. J. Huelster. 2,164,743; July 4.
Kiln, Rotary. R. D. Cheesman. 2,165,128; July 4.
Knitted fabric. E. S. Sachsenmaier. 2,165,012; July 4.
Knitting machine. L. Spordick. 2,165,077; July 4.
Knitting machine and producing stockings thereon. H. McAdams. 2,164,337; July 4.
Ladle and supporting the same. E. O. Holmberg. 2,165,053; July 4.
Lamp: *See*—
Desk lamp.
Electric mine lamp.
Head lamp.
Safety mine lamp.
Lantern, Electric. L. O. Brown. 2,164,898; July 4.
Last. L. W. Reinhardt. 2,165,006; July 4.
Latch. F. J. Harney. 2,164,584; July 4.
Length-controlling apparatus, Automatic. A. Swanson. 2,164,597; July 4.
Lens die, Biplanar ophthalmic. H. A. Courmettes. 2,165,131; July 4.
Lens mounting. W. R. Uhlemann. 2,164,557; July 4.
Lens system, Corrective. A. F. Dittmer. 2,164,801; July 4.
Lenses or other image producing optical devices, Testing of. G. Collins. 2,164,576; July 4.
Light from surfaces, Apparatus for comparing or measuring the diffuse reflection of. W. A. Johnson. 2,165,054; July 4.
Lighter, Pocket. W. E. Evans. 2,164,872; July 4.
Lighting device. J. W. Berwick. 2,164,378; July 4.
Lighting fixture hanger. W. Knapp. 2,164,527; July 4.
Lightning arrester. R. R. Pittman. 2,164,720; July 4.
Line securing device. R. E. Schreiber. 2,164,949; July 4.
Line tightener and fastener. H. A. Linman. 2,164,995; July 4.
Lining, Teat-cup. H. M. Flint and J. E. Moe. 2,164,706; July 4.
Lip exerciser. W. L. Jacobson. 2,164,458; July 4.
Liquids, Apparatus for sampling. J. d'A. Clark. 2,164,498; July 4.
Lock: *See*—
Combination lock.
Tie lock.
Loudspeaker arrangement. A. Wiessner. 2,164,977; July 4.
Lubricating device. T. C. Delaval-Crow. 2,164,449; July 4.
Lubricating devices, Making. H. R. Tear. 2,164,553; July 4.

Lubricator. H. T. Backhouse. 2,164,794; July 4.
Luminescent materials. H. W. Leverenz. 2,164,533; July 4.
Machine for applying films to pouring orifices of bottle containers. R. E. Ford. 2,164,908; July 4.
Machine for making cigarettes. I. Lubbock. 2,165,144; July 4.
Machine for shaping shoe uppers. G. H. Dove and R. P. Swain. 2,164,864; July 4.
Machine to cut or trim asphalt roads. J. T. Clamp. 2,164,446; July 4.
Magnetic device. E. T. Burton. 2,164,383; July 4.
Magnetic sheet, Producing. F. Bitter. 2,165,027; July 4.
Mail box. S. O. Florence. 2,164,855; July 4.
Manifolding. B. W. Kinyon. 2,164,685; July 4.
Mask faceplece, Fully-molded gas. S. H. Katz and D. O. Burger. 2,164,330; July 4.
Match holder. C. E. Berg. 2,164,795; July 4.
Material and making the same, Pleated. P. Tutein. 2,164,966; July 4.
Material, Oil, grease, and hydrocarbon resistant. K. R. Brown. 2,164,495; July 4.
Material, Oil, grease, and hydrocarbon resistant. K. R. Brown and E. H. Bucy. 2,164,494; July 4.
Material, Treating. H. Mason. 2,164,879; July 4.
Materials from a stream of liquid of varying quantity, Separating of heavy. M. Prüss and H. Blunk. 2,165,152; July 4.
Measurement of frustoconical parts. C. A. Rich and C. Palmer. 2,164,942; July 4.
Measuring and controlling apparatus. J. F. Lubrs. 2,165,182; July 4.
Mechanism for accurately mixing dry ingredients. J. A. Owens. 2,164,542; July 4.
Melamine, Manufacture of. W. Fisch. 2,164,705; July 4.
Mercaptans contained in a hydrocarbon liquid, Separating. D. L. Yabroff and E. R. White. 2,164,851; July 4.
Metal parts, Forming. R. C. Ingersoll. 2,164,523; July 4.
Metal strips, Sharpening. L. Steiner. 2,164,959; July 4.
Metallic bunch, Making a resilient. S. W. Grater. 2,165,178; July 4.
Metals, Purification of impure noble. H. Langwell and J. F. Short. 2,164,826; July 4.
Meter: *See*—
Fluid meter.
Optical contrast meter.
Methane, Nitrating. G. K. Landon. 2,164,774; July 4.
Microphone, Contact. S. Ballantine. 2,165,123; July 4.
Microphone, Throat. S. Ballantine. 2,165,124; July 4.
Milk can. D. A. Harris. 2,164,816; July 4.
Milk to be used for beverages and the product thereof, Processing of. H. S. Samson. 2,164,351; July 4.
Mill for enlarging hollow bodies, Rolling. J. Severin. 2,164,724; July 4.
Modulating and transmitting system, High frequency. G. T. Royden. 2,165,112; July 4.
Mop, Flexible. J. Glover. 2,164,398; July 4.
Mop holder. J. H. Follen. 2,164,395; July 4.
Motor: *See*—
Electric motor.
Hydraulic vane motor.
Protected motor.
Vibratory motor.
Motor control system. H. S. Carnegie. 2,165,127; July 4.
Motor switch. J. B. Sinnett. 2,164,667; July 4.
Motors, Cooling of railway traction. M. P. Blomberg. 2,164,444; July 4.
Mount for sound reproducing optical systems. D. O. Landis. 2,164,747; July 4.
Mounting: *See*—
Lens mounting.
Mounting device. A. J. Thompson. 2,164,846; July 4.
Mounting for aircraft, Blade. F. Huth. 2,164,744; July 4.
Mounting for automotive vehicles, Spring wheel. A. Kuehn. 2,164,413; July 4.
Mounting means for enclosed electric devices. R. H. Kingdon. 2,165,103; July 4.
Mouthpieces, Method and apparatus for making. G. Davidson. 2,164,702; July 4.
Mower attachment, Lawn. L. F. Mulno. 2,164,467; July 4.
Mower grinding machine, Automatic multiple lawn. S. W. McGee. 2,164,830; July 4.
Musical instrument, Photoelectric. R. C. Fisher. 2,164,809; July 4.
Navigating apparatus for instruction purposes. P. E. Köster. 2,164,412; July 4.
Network, Matching. A. Alford. 2,165,086; July 4.
Nightgown. M. Brandes. 2,164,896; July 4.
Nozzle. J. E. Kennedy. 2,164,411; July 4.
Nut. J. P. Burke. 2,164,382; July 4.
Nut and making the same. W. A. Bergstrom. 2,164,304; July 4.
Nut hulling and washing unit. W. C. Anderson. 2,164,372; July 4.
Oil burning furnace. B. P. Thornton. 2,165,162; July 4.
Oil, Dewaxing hydrocarbon. E. C. Knowles. 2,164,773; July 4.
Oil, Increasing the drying properties of. M. R. Coe. 2,165,130; July 4.
Oil, Lubricating. E. A. Evans. 2,164,393; July 4.
Oil, Solvent refining hydrocarbon. B. Y. McCarty and H. H. Gross. 2,164,777; July 4.
Oil, Solvent refining of hydrocarbon. F. X. Govers. 2,164,769; July 4.
Oils, Distilling. N. K. Rector. 2,164,593; July 4.
Optical contrast meter. A. H. Gaebel. 2,164,513; July 4.
Optical system. W. Kinmich. 2,164,526; July 4.
Optical system. A. A. Levin. 2,164,827; July 4.
Optical system, Push-pull. G. L. Dimmick. 2,164,735; July 4.
Ortho- and para-amino-ethyl-benzenes, Separating. R. R. Dreisbach and J. Day. 2,165,165; July 4.
Package, Paper dispensing. A. R. Lawson. 2,165,106; July 4.
Package for dispensing paper sheets. A. R. Lawson. 2,165,107; July 4.
Packaging. D. H. Edwards. 2,164,505; July 4.
Packer, Rotatable. J. W. MacClatchie. 2,164,857; July 4.
Pan and collector, Dust. O. Jarchow. 2,164,407; July 4.
Panel for beds, Detachable side. J. A. Wolfe. 2,164,484; July 4.
Paper holder. L. M. Harvey. 2,164,817; July 4.
Paper machinery. A. E. Bridge. 2,164,445; July 4.
Paper to printing presses, Device for delivering. D. G. Bernard. 2,165,026; July 4.
Parachute surface, Manufacture of a. A. Ferrari. 2,164,704; July 4.
Parasiticidal compound and producing the same. R. N. Chipman and F. J. Seibert. 2,164,568; July 4.
Pest control composition. E. W. Bousquet. 2,165,030; July 4.
Phonograph device. L. H. Ottofy. 2,164,663; July 4.
Phonograph, Tape. E. Schwartz. 2,165,073; July 4.
Phosphatic solutions, Treatment of. W. R. Seyfried. 2,164,627; July 4.
Photographic developer and substance added in preparing the same, M. Nassau. 2,164,687; July 4.
Photography, Composite. C. L. Gregory. 2,164,770; Pick-up device. R. L. Anderson. 2,165,088; July 4.
Picture telegraph device. W. Scheppmann. 2,164,946; July 4.
Piling mechanism for plate mills. M. J. Ajello. 2,164,371; July 4.
Pipe: *See*—
Smoking pipe.
Pipe and producing same, Concrete. J. G. Prosser and E. L. Johnson. 2,164,625; July 4.
Pipe, Apparatus for molding concrete. J. G. Prosser. 2,164,624; July 4.
Pipe cleaner. M. F. Lyons and B. Kaplan. 2,164,856; July 4.
Pipe coupling. M. F. Waters. 2,165,163; July 4.
Pipe coupling, Flexible. M. F. Waters. 2,165,164; July 4.
Pipe joint, Flexible. E. Hering. 2,165,051–2; July 4.
Piston ring and expander. J. Williams. 2,164,849; July 4.
Plank gib for power plate printing presses. A. A. Grossarth. 2,164,401; July 4.
Planter, Grain. P. Brower. 2,164,639; July 4.
Plate element for building parts, Metallic. M. Fould. 2,164,681; July 4.
Plate, Money. A. Knotz. 2,164,528; July 4.
Plate, Mosaic. H. Strübig. 2,164,961; July 4.
Plow. J. B. Berryhill. 2,164,693; July 4.
Plug: *See*—
Spark plug.
Plug insert for bore holes for cushion blasting in gaseous mines. F. Stružik. 2,164,690; July 4.
Pneumatic control valve. G. Meyer. 2,165,001; July 4.
Pocket, Disappearing. M. Wald. 2,165,081; July 4.
Polish, Metal. M. T. Flaxman. 2,164,810; July 4.
Pot for slug casting machines, Metal. E. M. Goodbody. 2,165,177; July 4.
Powder dispenser. E. G. Masters. 2,164,618; July 4.
Power output control. H. A. Centervall. 2,164,308; July 4.
Power transmission. A. L. Ellis. 2,164,647; July 4.
Power transmission. R. Tinker. 2,164,758; July 4.
Power transmission mechanism, Epicyclic. W. G. Wilson. 2,164,729; July 4.
Power transmission unit. W. Thomas. 2,164,670; July 4.
Power unit, Variable speed. D. Heyer and G. T. Pfleger. 2,164,818; July 4.
Press: *See*—
Printing press.
Press combination having means for avoiding jamming. E. Cannon. 2,164,640; July 4.
Press with roller feed, Die. W. C. Eickman. 2,164,806; July 4.
Pressure detector, Electrical. J. J. Broeze and H. van Driel. 2,164,638; July 4.
Primaries in a system of color reproduction by printing, Determining the. F. L. Wurzburg, Jr. 2,165,169; July 4.
Printing press. G. C. Waters. 2,164,363; July 4.
Projector. O. E. Trautmann. 2,164,847; July 4.
Propeller shaft support bearing unit, Automotive. A. H. Schmal. 2,165,155; July 4.
Propeller, Variable pitch. H. A. Berliner. 2,164,489–90; July 4.
Protected motor. V. Weber. 2,165,082; July 4.
Protector: *See*—
Faucet protector.
Tabor like protector.
Pulp stock agitating apparatus. 2,164,944; July 4.
Pump: *See*—
Deep well pump.
Hydraulic force pump.
Variable delivery pump.
Pump. F. E. Brady, Jr. 2,164,869; July 4.
Pump head, Adjustable rotary. G. T. Pfleger. 2,164,837; July 4.

Pump or motor, Hydraulic. E. K. Benedek. 2,165,126; July 4.
Pump top re-forming machine. A. H. Altvater. 2,164,861–2; July 4.
Punching and cutting machine. F. L. Manny. 2,164,616; July 4.
Rack: *See*—
Display rack.
Racket. R. Abell. 2,164,631; July 4.
Racket, Tennis. J. L. Consiglio. 2,164,903; July 4.
Radiator bypass device. F. M. Young. 2,164,605; July 4.
Radiator header with floating tube sheet. F. J. Sibley. 2,164,628; July 4.
Radiator header with metering orifice nipples and making same. F. J. Sibley. 2,164,629; July 4.
Radiator pressure cap. J. E. Eshbaugh and N. Walker. 2,164,450; July 4.
Radiator pressure cap. L. B. Smith. 2,164,478; July 4.
Radio receiving and intercommunication system, Combined. K. E. Stockton and J. S. Jammer. 2,164,960; July 4.
Radio receiving apparatus. T. Sörenson. 2,164,889; July 4.
Radio signaling systems, Supervision of. J. R. MacKay. 2,165,064; July 4.
Rail for vehicle frames, Side. D. W. Sherman. 2,165,074; July 4.
Rake, Buck. G. W. Gooch. 2,164,583; July 4.
Ram. F. W. Hecht. 2,165,141; July 4.
Range finder. I. E. Mather. 2,164,463; July 4.
Rate of strain indicator. R. B. Lewis. 2,164,993; July 4.
Razor, Thermoelectric rotary. G. R. Ewald. 2,164,581; July 4.
Razors, Attachment for electric. B. H. Jean. 2,164,820; July 4.
Records or talking motion pictures, Reproducing sound. F. Lieng. 2,164,828; July 4.
Rectifier and circuit, Flat. J. Slepian and L. R. Ludwig. 2,165,075; July 4.
Rectifier plant, Dry. W. Kafka. 2,165,055; July 4.
Refractory material, Production of. R. C. Benner and J. C. McMullen. 2,164,635; July 4.
Refrigerating apparatus. H. F. Smith. 2,164,842; July 4.
Refrigerating apparatus and method. C. M. Ashley. 2,164,761; July 4.
Refrigerating apparatus of the compressor type, Device for facilitating the starting of. R. Hintze. 2,164,405; July 4.
Refrigeration. S. M. Bäckström. 2,164,730; July 4.
Refrigeration. G. Grubb. 2,165,138; July 4.
Refrigerator cabinet. R. H. Money. 2,164,589; July 4.
Regulating apparatus. L. G. Tubbs. 2,165,079; July 4.
Regulator: *See*—
Gas and water regulator. Voltage regulator.
Temperature regulator.
Regulator. C. H. Smoot. 2,164,548; July 4.
Reinforced box. W. P. Aull. 2,165,023; July 4.
Relay, Battery-taper. D. W. Exner. 2,165,040; July 4.
Relay device. A. G. Kershaw. 2,164,823; July 4.
Resinous compositions and capacitors containing the same. F. M. Clark and R. A. Ruscetta. 2,165,090; July 4.
Resonance unit, Compound. E. E. Wilson. 2,164,365; July 4.
Ridge busting device for farm tractors. C. T. Pearcock. 2,164,543; July 4.
Rim, Tire. W. S. Brink. 2,164,981; July 4.
Ring: *See*—
Tank reinforcing ring.
Riveting tool. P. Van Sittert and J. H. Engeln. 2,164,970; July 4.
Rod: *See*—
Welding rod.
Roller for compacting materials used in various types of surfacing, Power. B. C. Steed and H. B. Wentz. 2,164,845; July 4.
Roof, Heat-insulating. R. H. Smith. 2,164,790; July 4.
Roof, Insulated. W. D. Thompson. 2,164,890; July 4.
Rooting granules. C. L. Jewett. 2,164,329; July 4.
Rubber compositions and the like, Making. E. O. Groskopf. 2,164,400; July 4.
Rumble seat. F. V. Suchanek. 2,164,435; July 4.
Rust inhibitor. E. C. Britton, H. S. Nutting, and P. S. Petrie. 2,164,565; July 4.
Safety device for extension ladders. H. J. Colberg. 2,164,575; July 4.
Safety mine lamp. W. K. Wilbur. 2,165,194; July 4.
Salts of leuco vat dyestuffs, Sulphuric acid ester. M. A. Prahl and W. L. Rintelman. 2,164,782; July 4.
Salts of metalliferous azo dyes, Disubstituted guanidine. H. W. Daudt and C. W. Hannum. 2,165,034; July 4.
Sand elevating and treating apparatus. S. B. Davies. 2,164,799; July 4.
Sanitary napkins, Manufacturing. C. G. Jon. 2,164,408; July 4.
Sash holder. C. O. Goserud. 2,164,515; July 4.
Saw-toothed wave form generator. R. Urtel and R. Andrieu. 2,164,968; July 4.
Scaffold hanger. A. D. Webster. 2,164,973; July 4.
Scaffolding. R. C. Hayner. 2,164,519; July 4.
Scoop. J. C. Ritter. 2,164,429; July 4.
Scoreboard. A. L. Montgomery. 2,164,466; July 4.
Scotch block. S. W. Hayes. 2,164,401; July 4.
Scraper. C. LeBleu. 2,164,461; July 4.
Screen printing machine. J. S. Wheelwright. 2,164,603; July 4.
Screw and forming same, Tapping. C. G. Olson. 2,165,149; July 4.
Seal. D. A. Boyd. 2,164,380; July 4.
Seal, Cap closure. R. Steenhoff. 2,164,957; July 4.
Sealing means for gas holders. W. E. Gruening. 2,165,179; July 4.
Seat: *See*—
Rumble seat.
Seat and flush rim, Combination. W. C. Groeniger. 2,164,320; July 4.
Secondary emission tube. G. B. Banks. 2,164,892; July 4.
Sections from sheet metal by rolling, Production of profiled. E. Penkala. 2,164,836; July 4.
Serial multiway valve. J. S. Frechette. 2,165,096; July 4.
Sewing machines, Tension-releaser for. E. P. Spalne. 2,165,016; July 4.
Shade mounting means, Lamp. P. Chilo. 2,164,901; July 4.
Shaft indexing device. F. L. Hart. 2,164,455; July 4.
Shaft-positioning device. A. A. Collins. 2,164,309; July 4.
Shaver, Multiple head dry. J. H. Rand, Jr. 2,164,425; July 4.
Shaving instrument and blade therefor. G. Greenstein. 2,165,046; July 4.
Sheet-feeding machine. H. T. Backhouse. 2,165,172; July 4.
Sheet material joint. E. L. Barrett. 2,164,634; July 4.
Sheets, Manufacture of perforate rubber. M. E. Hansen. 2,165,099; July 4.
Shield, Safety. C. R. Jeffreys. 2,165,142; July 4.
Shifting mechanism for time recorders. E. G. Watkins and J. A. Dell. 2,165,117; July 4.
Shingle. L. Kirschbraun. 2,164,712; July 4.
Ship, Miniature. B. C. Haskin. 2,164,651; July 4.
Shock absorber for walking beams. C. P. Hall and C. R. Tucker. 2,164,709; July 4.
Shoe. E. W. Wilkinson and G. D. Hurd. 2,165,188; July 4.
Shoe, Air-conditioned. A. J. Le Clair. 2,164,877; July 4.
Shoe display device, Automatic. W. H. Parkison. 2,164,664; July 4.
Shoe machine. A. R. Morrill. 2,165,146; July 4.
Shoe machine. C. A. Robinson. 2,164,347; July 4.
Shoemaking. F. Maccarone. 2,164,754; July 4.
Shoe vamp. C. H. Daniels. 2,165,092; July 4.
Shoe with extensible upper margin. F. R. Merritt. 2,164,465; July 4.
Shoes, Article for cleaning. H. C. and E. W. Parker. 2,165,150; July 4.
Shoes of the prewelted type, Apparatus for forming. T. H. Erline, F. U. Ditzler, and H. B. Kich. 2,164,989; July 4.
Shutter, Photographic. N. B. Green. 2,165,137; July 4.
Sifter. M. L. Schneider. 2,164,841; July 4.
Sign: *See*—
Display sign. Flexible parking sign.
Sign, A. R. Cardarelli. 2,164,985; July 4.
Signal device. L. Rittenhouse. 2,164,839; July 4.
Signal observance, Apparatus and method for recording railroad speed. L. S. Randolph. 2,164,473; July 4.
Signal transmission line, Electric. A. D. Blumlein and J. Hardwick. 2,164,492; July 4.
Signal transmission system. A. C. Norwine. 2,164,344; July 4.
Signaling or controlling system employing follow-up devices, Electric. R. J. Wey. 2,164,728; July 4.
Signaling, supervising, and recording system, Electric. J. R. Harrington. 2,164,324; July 4.
Siliceous product and making the same. A. B. Cummins and L. B. Miller. 2,164,500; July 4.
Silk, Treatment of artificial. A. E. Sunderland. 2,164,479; July 4.
Sintered product, Production of a. H. Wendeborn. 2,165,084; July 4.
Siphon-breaking device. J. Podolsky. 2,164,622; July 4.
Skate, Roller. C. B. Ecton. 2,164,805; July 4.
Ski. C. L. Whiteford. 2,164,604; July 4.
Slicing and weighing machine. J. C. Gualdoni. 2,165,047; July 4.
Slide-cover container. F. W. Nitardy. 2,164,832; July 4.
Slider, Noncrushing. L. H. Morin. 2,164,937; July 4.
Smokehouse, Air conditioned. A. S. Kellner. 2,165,057; July 4.
Smoking pipe. M. Beaudry. 2,164,982; July 4.
Snatch block. W. G. Bentley. 2,164,894; July 4.
Sodium aluminate, Manufacture of. W. S. Wilson and A. J. Lobdell, Jr. 2,165,187; July 4.
Somersaulter. W. G. Bolcom. 2,164,563; July 4.
Sound head. F. J. Loomis and E. W. Reynolds. 2,164,748; July 4.
Sound picture fader. W. L. Donden. 2,164,736; July 4.
Sound recording and reproducing device. C. W. Nystrom. 2,164,778; July 4.
Sound reproducer. G. L. Dimmick. 2,164,734; July 4.
Sound reproducing device. A. C. Barker. 2,164,374; July 4.
Sound system, Submarine. J. R. West. 2,164,858; July 4.
Soundings, Apparatus for taking. F. Waller. 2,164,791; July 4.
Spark device, High tension. J. A. Doran. 2,164,311; July 4.
Spark plug. P. A. Doyle. 2,164,578; July 4.
Spark plug lead, Radio shielded. M. F. Peter and R. H. Stone. 2,164,591; July 4.

Speed controlled switch. J. G. Ingres. 2,164,991; July 4.
Speed regulating mechanism. R. Hörninger and R. Germar. 2,164,306; July 4.
Speed transmission, Variable. A. Y. Dodge. 2,164,561; July 4.
Spindle, Filing. C. Goldstein. 2,164,514; July 4.
Spline, Cutting tapered. J. C. Drader. 2,164,643; July 4.
Spoon, Calibrated self-supporting sanitary. E. M. Garside. 2,165,045; July 4.
Spring and attachment, Combination. H. Tampkin. 2,164,962; July 4.
Spring tester, Coil. F. W. Gaskins. 2,164,453; July 4.
Springing elements, Making. E. H. Piron. 2,164,421; July 4.
Sprocket assembly for bicycles. F. S. Travis. 2,164,759; July 4.
Stake body for vehicles. H. Cohen. 2,164,448; July 4.
Stand: *See*—
Display stand.
Starting device for internal combustion engines, Automatic. L. J. Cuthbertson. 2,165,133; July 4.
Starting mechanism for explosive engines. J. L. Yarlan. 2,164,673; July 4.
Stay for windows or similar closures. A. de Vries. 2,164,732; July 4.
Steel, Heat resisting alloy. B. H. De Long and O. V. Greene. 2,165,035; July 4.
Steel, Production of low carbon. S. Westberg. 2,164,727; July 4.
Stereopticon slide and producing same. B. J. Kleerup. 2,164,655; July 4.
Stitcher. R. B. Doty and F. A. Ross. 2,164,802; July 4.
Stock quotation board, Automatic. C. Smith. 2,164,956; July 4.
Stock watering device. W. W. Kreft. 2,164,716; July 4.
Stocking and making the same. H. C. Martin and L. R. Claflin. 2,164,749; July 4.
Stoker. J. R. Graves. 2,165,098; July 4.
Stoker, Automatic. A. V. Sampsel. 2,164,350; July 4.
Stoker, Locomotive. C. J. Surdy. 2,164,726; July 4.
Stop for slide fasteners, Top. W. A. Behrens. 2,164,488; July 4.
Stove or the like, Camp. C. L. Pearson and R. L. Richardson. 2,164,835; July 4.
Straightening mechanism. G. E. Nighthart. 2,164,343; July 4.
Stranding or wire rope machine, High speed. W. E. Somerville. 2,164,630; July 4.
Strap, band, or the like, Wrist-watch. J. P. Schultheiss. 2,165,115; July 4.
Strip, Making a siding. G. A. Fasold. 2,164,508; July 4.
Suction cleaning apparatus. P. B. Ellis. 2,164,392; July 4.
Sulphur dioxide from acid sludges, Recovery of. D. W. Bransky. 2,164,637; July 4.
Sulphur, Purification of. N. A. Laury. 2,165,170; July 4.
Sundial. W. W. Leinert. 2,164,532; July 4.
Supervisory control system. H. P. Boswan. 2,164,379; July 4.
Support: *See*—
Clothesline support. Wheel support.
Electrode support.
Supply valve. J. T. McGrath. 2,164,934; July 4.
Supporting means for ladies. H. H. Needham, H. A. Schmitz, Jr., and F. K. Zerbe. 2,165,066; July 4.
Surfaces, Treating hard. G. Monnet. 2,164,418; July 4.
Sustaining and propulsive means for aircraft. A. O. Price. 2,164,721; July 4.
Switch: *See*—
Fluid operated switch. Speed controlled switch.
Motor switch.
Switch mechanism, Electrically operated. A. G. and N. G. Kershaw. 2,164,822; July 4.
Tab or title protector, Index. T. H. Krueger. 2,164,928; July 4.
Table: *See*—
Feed table.
Tank filling device. C. H. Sheldon. 2,164,789; July 4.
Tank reinforcing ring. A. O. Miller. 2,164,660; July 4.
Target. C. H. Morgan and A. O. Blumburg. 2,164,340; July 4.
Teeth of rotary cutting tools, Locating the. J. M. Christman. 2,164,569; July 4.
Telegraph system, Multiple channel. F. L. Henderson. 2,164,920; July 4.
Telephone outlet, Pancake. C. E. Rutherford. 2,164,788; July 4.
Telephone system. H. M. Bascom. 2,164,731; July 4.
Telephone system. R. V. L. Hartley. 2,164,325; July 4.
Telephone system. R. C. Mathes. 2,164,335; July 4.
Telephone system with two-party lines. H. V. Alexandersson and E. W. Hullegård. 2,164,691; July 4.
Telescope. R. Stagl. 2,165,158; July 4.
Television and the like system employing cathode ray tubes. A. D. Blumlein. 2,165,028; July 4.
Television apparatus. P. Deserno and M. Messner. 2,164,906; July 4.
Television receiving apparatus. J. E. Mead and H. G. M. Spratt. 2,164,537; July 4.
Television receiving set. P. M. G. Toulon. 2,165,078; July 4.
Temperature reaction products, High. H. A. Winkelmann, E. W. Moffett, and W. C. Calvert. 2,164,367; July 4.
Temperature regulator. J. V. Giesler and J. E. Dube. 2,165,136; July 4.
Tension control device or the like. H. E. Giroz. 2,164,912; July 4.
Tension mechanism for winding machines. V. H. Meyer. 2,164,336; July 4.
Tensioning means for running jigsaws. W. F. Ocenasek. 2,165,002; July 4.
Terminal prong, Electrical. A. M. Draving. 2,164,766; July 4.
Textile drafting means. N. A. Batchalder. 2,164,443; July 4.
Textile fabric. H. M. Kelso, Jr. 2,164,925; July 4.
Theater chair. M. W. Hard. 2,164,918; July 4.
Thermoelectrically controlled device. P. L. Betz and and S. Karrer. 2,164,694; July 4.
Thermostatic control for liquid fuel burners. A. T. Smith. 2,164,955; July 4.
Thermostatic control system. H. L. Sargent. 2,164,353; July 4.
Thermostatically operating device. R. H. Zinkil. 2,165,171; July 4.
Thread guide and adapter therefor. M. Duraffourg. 2,164,803; July 4.
Thread, Manufacture of rubber. C. L. Beal. 2,165,089; July 4.
Thread production apparatus. J. D. Renfroe. 2,164,426; July 4.
Thrombin, Manufacture of. H. Dyckerhoff. 2,164,804; July 4.
Throttle control, Hydraulic. E. O. Schjolin. 2,164,475; July 4.
Tie lock. K. L. Seaman. 2,164,626; July 4.
Timer, Induction. W. C. Hall, Jr. 2,164,915; July 4.
Timing control. A. Pfister. 2,164,939; July 4.
Tire. De W. T. Hicks and V. L. Smithers. 2,164,819; July 4.
Tire, Inner walled. F. R. McDevitt. 2,164,686; July 4.
Tomato and fruit peeling machine. V. Carpentieri. 2,164,384; July 4.
Tool: *See*—
Can handling tool. Garden tool.
Cutting tool. Riveting tool.
Tool. J. M. Christman. 2,164,572–4; July 4.
Tool. R. Lack. 2,164,825; July 4.
Tool for cutting or turning. A. J. Berg and J. O. Huse. 2,164,303; July 4.
Tools, Constructing gear finishing. J. C. Drader. 2,164,642; July 4.
Tooth cutter, Inserted. W. E. Parish. 2,164,620; July 4.
Torpedo. J. H. Hammond, Jr. 2,164,916; July 4.
Torque limiting device. A. B. De Salardi. 2,164,870; July 4.
Toy airplane. A. Harb. 2,165,050; July 4.
Toy eye blinker. H. Rubensteln. 2,165,113; July 4.
Toy ladder truck. H. T. Kingsbury. 2,164,460; July 4.
Toy, Mechanical. J. M. Duarte J. 2,164,313; July 4.
Traffic controlling apparatus, Railway. A. J. Sorensen. 2,164,668; July 4.
Train element and fuse for blasting and pyrotechnic and the like purposes, and preparation thereof, Combustion. J. S. B. Fleming and R. C. Payn. 2,164,509; July 4.
Transformer system, Aperiodic. A. Alford. 2,165,087; July 4.
Transmission. W. E. Beckjord. 2,164,487; July 4.
Transporting and dumping vehicle. L. Gerosa and G. P. Wagner. 2,164,739–40; July 4.
Traveling bag. D. R. Branen. 2,164,493; July 4.
Trimethylolnitromethane, Preparation of. J. A. Wyler. 2,164,440; July 4.
Truck, Utility. P. E. Hawkins. 2,164,327; July 4.
Tube: *See*—
Cathode ray tube. Electron discharge tube.
Control tube. Electronic discharge tube.
Discharge tube. Secondary emission tube.
Tube and circuits, Gas discharge. W. L. Meier. 2,164,738; July 4.
Tube and pipe cleaner. C. L. Shobe. 2,164,689; July 4.
Tube cleaning device. G. Ammendola. 2,165,120; July 4.
Tube deflecting device, Cathode ray. L. G. Maloff. 2,164,931; July 4.
Tube for rock drills, Water. J. E. Renfer. 2,164,886; July 4.
Tubes, Apparatus for conveying and drying. J. H. Friden. 2,164,768; July 4.
Tubular container, Collapsible. F. P. Schmidt. 2,164,430; July 4.
Tuning indicator circuit. K. Wilhelm. 2,164,979; July 4.
Turbines, Measuring tip clearances of steam. A. T. Morgan. 2,164,339; July 4.
Typewriter and punch recorder, Combined. J. P. Buckley. 2,164,697; July 4.
Typewriter-card puncher, Combination. J. P. Buckley. 2,164,696; July 4.
Typewriting machine. H. L. Pitman. 2,164,422; July 4.
Utensil, Electric culinary. R. E. Gunther. 2,164,813; July 4.
Vacuum device, Fluid operated. G. O. Taylor. 2,164,552; July 4.

Valve: *See*—
Float valve. Pneumatic control valve.
Flush valve. Serial multiway valve.
Hot blast valve. Supply valve.

Valve assembly, Self-grinding flushing. B. T. Long. 2,164,996; July 4.

Valve construction. R. A. Garverick. 2,164,911; July 4.

Valve control system, Electric. H. Winograd. 2,164,792; July 4.

Valve converting system, Electric. I. K. Dortort. 2,164,765; July 4.

Valve for power transmission systems, Relief. W. Thomas. 2,164,669; July 4.

Vaporizer. L. B. Meyerson. 2,164,881; July 4.

Variable delivery pump. B. Sassen, H. Ernst, and F. S. Haas. 2,164,888; July 4.

Vehicle: *See*—
Transporting and dumping vehicle.

Vehicle accessory system, Motor. E. C. Horton. 2,165,181; July 4.

Vehicle control, Motor. C. L. Hoff. 2,164,921; July 4.

Vehicle suspension, Motor. V. Valletta. 2,164,602; July 4.

Vehicle wheel. C. G. Keller. 2,164,772; July 4.

Vehicle wheel. J. Suris. 2,165,185; July 4.

Vehicles, Antivibration suspension and steering gear for. C. Opolo. 2,164,470; July 4.

Vehicles, System for parking. A. J. Isbell. 2,164,992; July 4.

Ventilating device. R. T. Cornelius. 2,164,608; July 4.

Vibratory motor, Electromagnetic. E. L. Barrett. 2,164,632; July 4.

Voltage of rectifiers, System for controlling. R. D. Evans. 2,165,039; July 4.

Voltage regulating system. C. R. Hanna and K. A. Oplinger. 2,165,049; July 4.

Voltage regulator. L. L. Fountain. 2,165,043; July 4.

Voltage regulator. L. G. Tubbs. 2,165,080; July 4.

Wall construction. J. Trojanowski. 2,165,116; July 4.

Wall structure, Metallic. K. Edahl. 2,164,646; July 4.

Wallpaper steamer supporting device. A. Cusick. 2,164,609; July 4.

Water closet flushing apparatus. N. J. Desroche. 2,164,503; July 4.

Water closet or defecator. W. C. Groeniger. 2,164,319; July 4.

Wave filter, Electromechanical. H. G. Och. 2,164,541; July 4.

Wax from hydrocarbon oil, Removal of. E. F. Pevere. 2,164,780; July 4.

Wax from hydrocarbon oil, Separation of. B. Y. McCarty. 2,164,776; July 4.

Wax from oils, Separating. E. M. Dons and D. B. Mapes. 2,164,391; July 4.

Wax, Recovery of. R. E. Manley. 2,164,779; July 4.

Ways, Lubricating. W. A. Hart. 2,164,518; July 4.

Web guiding device. E. F. Harmon. 2,164,919; July 4.

Weeder, Rod. L. C. Van Patten. 2,165,019; July 4.

Welding rod. W. C. Anderson. 2,165,022; July 4.

Welding system. R. E. Marbury. 2,165,065; July 4.

Wells, Treatment of. H. T. Kennedy. 2,164,459; July 4.

Wheel: *See*—
Grinding wheel. Vehicle wheel.

Wheel. G. E. Moore. 2,164,883; July 4.

Wheel grinding machine. W. T. Bitler, M. S. Evans, and R. P. McBride. 2,164,491; July 4.

Wheel support. A. I. Tollefson. 2,164,554; July 4.

Wheels of motor vehicles, Springing of the. F. Porsche. 2,164,838; July 4.

Winding machine. G. N. Taylor. 2,165,018; July 4.

Window constructions for automobiles. W. L. Morrison. 2,164,342; July 4.

Window for vehicles. W. L. Morrison. 2,164,341; July 4.

Window, Louver type. M. J. Griffith. 2,164,814 July 4.

Window-raising and lock-retracting means. C. F. H. Krug. 2,165,060; July 4.

Wiper, Self-preparing windshield. E. C. Horton. 2,165,180; July 4.

Wiper, Windshield. H. B. MacRobert. 2,164,829; July 4.

Wire and apparatus for the practice of said method, Method of conditioning chrome alloy. W. H. Wood and O. C. Trautman. 2,164,850; July 4.

Wire and making same, Insulated. W. E. Cook. 2,164,904; July 4.

Wires, Drawing small diameter. P. R. Kalischer. 2,165,056; July 4.

Workpieces, Method of and apparatus for honing. H. L. Blood. 2,164,868; July 4.

X-ray apparatus. R. R. Machlett. 2,164,997; July 4.

Zeolite and preparing the same, Artificial. M. J. Shoemaker. 2,165,014; July 4.

CLASSIFICATION OF PATENTS

ISSUED JULY 4, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1—	41: 2,164,468	25—	36: 2,164,953	51—	280: 2,165,186	84—	471: 2,164,873	106—	36. 2: 2,165,134	139—	383: 2,164,925
2—	49: 2,164,369		131: 2,164,592	52—	17: 2,164,509	85—	32: 2,164,382	107—	48: 2,164,429		411: 2,164,848
	70: 2,164,683	28—	1: 2,164,479	53—	3: 2,164,399		47: 2,165,010	108—	5. 2: 2,164,890	140—	10: 2,164,481
	73: 2,164,896		2,164,998		6: 2,164,582		2,165,011		6: 2,164,790		71: 2,165,178
	139: 2,164,751	29—	50: 2,164,396	55—	65: 2,164,373		2,165,149		8: 2,164,636	143—	73: 2,165,002
	150: 2,164,626		81: 2,165,120		73: 2,164,550	87—	5: 2,164,810		2,164,712	146—	8: 2,164,372
	247: 2,165,081		90: 2,164,574		83: 2,164,963		9: 2,164,393	110—	36: 2,164,510		43: 2,164,384
4—	57: 2,164,996		95: 2,164,303		84: 2,164,577	88—	1: 2,164,526		104: 2,164,726	148—	10: 2,164,850
	59: 2,164,503		95. 1: 2,164,874	56—	238: 2,164,467		14: 2,164,513		2,165,098		23: 2,164,775
	69: 2,164,319		103: 2,164,570		364: 2,165,088		2,165,054	111—	70: 2,164,639	150—	1. 7: 2,164,641
	70: 2,164,320		2,164,571		391: 2,165,110		2,165,167	112—	2: 2,164,802	151—	21: 2,164,305
	2,164,321		2,164,572		395: 2,164,583		2,165,169		11: 2,164,501	152—	56: 2,165,185
	256: 2,164,580		2,164,573	57—	65: 2,164,630		16: 2,164,770		255: 2,165,016		209: 2,164,819
5—	21: 2,164,438		105: 2,164,620		95: 2,164,306		24: 2,164,747	113—	59: 2,164,567		243: 2,164,945
	267: 2,164,962		149. 5: 2,164,737	60—	52: 2,164,308		2,164,827		118: 2,164,629		245: 2,165,114
	331: 2,164,484		2,164,902		2,164,647		2,164,847	114—	21: 2,164,916		340: 2,164,686
8—	34: 2,164,930		157: 2,164,553		2,165,095		26: 2,164,655	116—	120: 2,164,466		411: 2,164,984
	46: 2,164,785		159: 2,164,421	61—	35: 2,164,536		47: 2,164,557		124. 1: 2,164,889	153—	28: 2,164,836
	2,164,786	30—	34: 2,164,820		53: 2,165,190		54: 2,164,801		149: 2,164,839		35: 2,164,343
10—	86: 2,164,304		43: 2,164,424	62—	89: 2,164,589		56: 2,164,576	119—	53. 5: 2,165,121		67: 2,164,679
12—	6: 2,165,146		2,164,425		101: 2,164,677		61: 2,164,539		73: 2,164,716	154—	2: 2,164,508
	12: 2,164,989		64: 2,165,046		115: 2,164,761		86: 2,164,992	120—	32: 2,165,042		46: 2,164,499
	14: 2,164,347	31—	46: 2,165,005		119. 5: 2,164,893	89—	1. 5: 2,164,672		38: 2,164,433	155—	12: 2,165,125
	51: 2,164,861		85: 2,164,706		126: 2,165,004		37. 5: 2,164,722	121—	10: 2,164,886		46: 2,164,715
	2,164,862	33—	27: 2,164,980		131: 2,164,579	90—	3: 2,164,643		21: 2,164,970		86: 2,164,918
	2,164,864		62: 2,164,532		141: 2,164,656		18: 2,164,884		41: 2,164,971	156—	17: 2,164,556
	136: 2,165,006		64: 2,164,463	63—	1: 2,164,562		57: 2,164,455		46. 4: 2,164,911	158—	4: 2,165,162
	146: 2,164,754		70: 2,165,158	64—	11: 2,164,842	91—	12. 2: 2,164,332		99: 2,164,876		27. 4: 2,164,972
15—104. 07:	2,164,689		172: 2,164,339		19: 2,164,947		32: 2,165,031	123—	12: 2,164,462		77: 2,165,191
	105: 2,165,150		2,165,017		29: 2,164,870		46: 2,164,908		24: 2,164,700		99: 2,164,417
	111: 2,164,965		174: 2,164,942		30: 2,164,485		68: 2,164,359		32: 2,164,684		117. 1: 2,164,512
	128: 2,164,432		189: 2,164,825	65—	63: 2,164,407		2,164,494		2,165,176		2,164,887
	139: 2,164,895		203: 2,164,853		95: 2,164,649		2,164,495		41: 2,164,522	164—	13: 2,164,616
	147: 2,164,398	34—	16: 2,164,614	66—	24: 2,164,337		2,164,981		74: 2,164,439		22: 2,164,806
	151: 2,164,617	35—	12: 2,164,412		71: 2,165,077		70: 2,164,329		122: 2,164,451		113: 2,164,696
	152: 2,164,395		49: 2,165,003		172: 2,165,012	92—	37: 2,164,944		148: 2,164,591		2,164,697
	156: 2,164,392		56: 2,165,108	67—	7. 1: 2,164,872	93—	1: 2,164,702		169: 2,164,311		2,164,698
	253: 2,165,181	36—	3: 2,164,877		55: 2,164,613		2,164,935		2,164,578	166—	21: 2,164,459
	255: 2,165,180		24. 5: 2,165,188	70—	214: 2,165,067		58. 2: 2,164,436		179: 2,164,472	167—	15: 2,164,568
16—	54: 2,164,358		45: 2,165,092	72—	16: 2,164,322		84: 2,164,966	125—	23: 2,164,688		34: 2,165,030
	164: 2,164,757		51: 2,164,465		18: 2,165,101	94—	18: 2,164,590	126—	25: 2,164,835		85: 2,164,717
18—	8: 2,164,376	37—	126: 2,164,461		77: 2,165,192		50: 2,164,845		67: 2,165,038	169—	37: 2,164,611
	2,165,089		141: 2,164,988		120: 2,164,464	95—	6: 2,165,166		99: 2,164,377	170—	163: 2,164,489
	47: 2,164,750	39—	6: 2,164,610	73—	4: 2,164,601		45: 2,164,695		113: 2,164,718		2,164,490
	58: 2,165,099	40—124. 1:	2,164,860		21: 2,164,498		63: 2,165,137		215: 2,164,619		173: 2,164,744
19—	140: 2,164,443		125: 2,164,985		51: 2,165,024		88: 2,164,687	128—	24: 2,164,563	171—	97: 2,164,964
20—	4: 2,165,116		130: 2,164,917		62: 2,165,045		94: 2,164,653		141: 2,164,330		2,165,065
	5: 2,164,725		145: 2,164,680		300: 2,164,791	96—	24: 2,164,749		156: 2,164,360		119: 2,165,049
	16: 2,164,648	42—	1: 2,165,093	74—	6: 2,164,673	97—	42: 2,165,019		192: 2,164,881		2,165,079
	56. 5: 2,164,815	43—	27: 2,164,807		44: 2,164,612		47: 2,164,543		214: 2,164,711		2,165,080
21—	43: 2,164,328		29: 2,164,907		133: 2,164,671		50: 2,164,758		290: 2,164,408		206: 2,164,738
	58: 2,164,316		40: 2,164,708		198: 2,164,516	98—	33: 2,164,394		349: 2,164,926		229: 2,165,043
22—	71: 2,165,177		42: 2,164,415		267: 2,164,729		66: 2,164,987	129—	16. 7: 2,165,157		252: 2,164,915
	81: 2,165,053		46: 2,165,071		284: 2,164,504	99—	55: 2,164,351		16. 8: 2,164,928		2,165,032
	82: 2,165,066	46—	78: 2,165,050		286: 2,164,818		90: 2,165,154		23: 2,164,514		314: 2,165,040
	89: 2,164,799		170: 2,165,113		291: 2,164,759		193: 2,164,362		24: 2,164,659		2,165,174
23—	5: 2,164,403		189: 2,164,663		334: 2,164,990		259: 2,165,057		2,164,967		327: 2,164,638
	52: 2,165,187		215: 2,164,460		355: 2,164,487	101—	30: 2,164,852		35: 2,164,496	172—	36: 2,164,633
	66: 2,164,943	47—	2: 2,165,148		421: 2,164,670		91: 2,164,852	131—	39: 2,165,144		2,164,837
	109: 2,164,627		11: 2,164,675		479: 2,164,692		114: 2,164,603		43: 2,164,423		179: 2,165,119
	113: 2,165,014		61: Pl.Pt.334		513: 2,164,475		115: 2,165,139		55: 2,164,879		238: 2,164,402
	126: 2,165,189	48—	176: 2,165,179		538: 2,164,693		132: 2,164,707		176: 2,164,929		239: 2,164,548
	142: 2,165,173	49—	79: 2,164,635		547: 2,165,060		149: 2,164,828		201: 2,164,982		2,164,728
	165: 2,165,100		81: 2,164,457		586: 2,164,597		159: 2,164,401		243: 2,164,856		2,165,127
	178: 2,164,637	51—	26: 2,164,830	75—	3: 2,164,950		212: 2,164,363	132—	13: 2,164,442		279: 2,165,082
	179: 2,165,170		34: 2,164,811		28: 2,164,727		415. 1: 2,164,480		19: 2,164,385	173—	361: 2,164,766
	234: 2,164,826		51: 2,164,491		67: 2,164,410	102—	11: 2,164,690		35: 2,164,387	174—	57: 2,165,103
	239: 2,164,986		52: 2,164,642		126: 2,165,035		39: 2,164,797		50: 2,164,940		84: 2,164,381
	277: 2,164,762		79: 2,165,097		163: 2,165,085	103—	5: 2,164,975	134—	23. 5: 2,164,585		121: 2,164,904
24—	33: 2,165,020		80: 2,164,959		165: 2,164,938		42: 2,164,888	136—	103: 2,164,755	175—	30: 2,164,720
	68: 2,164,949		90: 2,165,118	76—	89. 2: 2,164,569		113: 2,164,869		122: 2,165,061		182: 2,165,013
	73: 2,164,657		95: 2,164,875	77—	69: 2,164,741		161: 2,165,126	137—	53: 2,164,609		183: 2,164,302
	81: 2,164,831		105: 2,164,868	80—	9: 2,165,008		233: 2,164,469		93: 2,164,760		315: 2,164,742
	113: 2,164,386		123: 2,164,978		2,165,009	104—	257: 2,164,999		101: Re.21,140		2,165,090
	136: 2,164,995		161: 2,164,867		13: 2,164,724		259: 2,164,404		104: 2,164,622		2,165,091
	180: 2,164,733		169: 2,164,900		51: 2,165,104	105—	59: 2,164,444		2,164,927		320: 2,164,701
	205: 2,164,488		190: 2,164,800		61: 2,165,007		364: 2,164,859		2,164,934		336: 2,165,037
	2,164,937		195: 2,164,418	83—	30: 2,164,338		368: 2,164,456		111: 2,164,666		354: 2,165,075
	211: 2,164,447		209: 2,164,560		46: 2,164,409		2,164,661		139: 2,164,694		363: 2,164,765
	230. 5: 2,165,129		216: 2,165,131	84—	1. 17: Re.21,137		2,164,662	138—	84: 2,164,625		2,164,792
	241: 2,164,941		272: 2,165,142		1. 18: 2,164,809		384: 2,164,586	139—	79: 2,165,000		2,164,912
25—	30: 2,164,624		278: 2,164,476		465: 2,164,458	106—	24: 2,164,871		186: 2,164,746		2,165,039

175— 363: 2,165,041
2,165,055
366: 2,165,029
367: 2,164,623
176— 4: 2,165,105
73: 2,165,183
122: 2,164,307
177— 311: 2,164,588
326: 2,164,528
346: 2,164,349
353: 2,164,379
2,164,956
360: 2,164,324
386: 2,164,858
178— 5.2: 2,165,168
5.8: 2,164,537
2,164,745
7.2: 2,164,520
7.5: 2,164,906
2,165,028
2,165,078
13: 2,164,946
16: 2,164,920
44: 2,164,344
2,164,541
2,164,752
2,165,086
2,165,087
45: 2,164,492
63: 2,164,893
179— 1: 2,164,960
2,164,977
16: 2,164,335
17: 2,164,731
18: 2,164,325
33: 2,164,091
100.3: 2,164,734
2,164,735
2,164,736
114: 2,165,123
115.5: 2,164,374
157: 2,165,124
171: 2,164,383
2,164,899
2,164,939
2,165,112
180— 30: 2,164,413
70: Re.21,138
181— 0.5: 2,164,756
48: 2,164,365
183— 14: 2,164,833
184— 5: 2,164,518
6: 2,164,794
185— 40: 2,164,976
186— 27: 2,164,713
188— 4: 2,164,834
72: 2,164,844
79.5: 2,164,866
2,164,878
2,165,076
152: 2,164,551
171: 2,164,521
209: 2,164,474
189— 16: 2,164,427
21: 2,164,428
34: 2,164,448
2,164,64b
2,164,681

189— 36: 2,164,634
69: 2,164,814
190— 52: 2,164,493
192— .01: 2,164,865
2,164,923
3: 2,164,921
13: 2,164,897
68: 2,164,544
84: 2,164,909
105: 2,164,540
139: 2,164,309
195— 66: 2,164,804
68: 2,164,914
2,164,936
196— 13: 2,164,777
18: 2,164,391
2,164,769
2,164,773
2,164,776
2,164,779
2,164,780
30: 2,164,851
32: 2,164,665
40: 2,164,771
52: 2,164,334
85: 2,164,593
197— 63: 2,164,422
198— 15: 2,165,109
189: 2,164,535
203: 2,164,768
220: 2,164,676
200— 47: 2,164,958
80: 2,164,667
2,164,991
83: 2,164,821
90: 2,164,632
98: 2,164,388
2,164,822
106: 2,165,117
116: 2,165,156
121: 2,164,658
126: 2,164,983
2,164,994
2,165,015
168: 2,164,823
202— 15: 2,165,143
19: 2,164,933
174: 2,165,044
204— 1: 2,164,924
2,165,027
2: 2,164,764
11: 2,164,710
205— 21: 2,165,056
206— 42: 2,164,719
2,164,832
46: 2,164,505
48: 2,164,795
57: 2,165,107
58: 2,165,106
207— 2: 2,164,640
17: 2,164,397
209— 44: 2,164,796
158: 2,165,152
234: 2,164,364
310: 2,164,841
324: 2,165,068
467: Re.21,136
210— 22: 2,165,153

211— 135: 2,164,454
213— 4: 2,164,703
9: 2,164,558
2,164,594
76: 2,164,909
214— 23: 2,165,141
116: 2,164,740
120: 2,164,739
215— 40: 2,164,957
79: 2,164,314
2,164,315
216— 21: 2,164,502
218— 6: 2,164,743
219— 8: 2,165,022
2,164,829
40: 2,164,482
44: 2,164,813
220— 1.5: 2,164,317
3.8: 2,164,788
24: 2,164,478
26: Re.21,135
42: 2,164,816
44: 2,164,450
71: 2,164,660
221— 60: 2,164,430
2,164,885
66: 2,164,618
80: 2,164,789
95: 2,164,441
118: 2,164,812
2,164,824
141: 2,164,333
223— 85: 2,164,534
88: 2,164,525
92: 2,164,420
93: 2,165,072
224— 4: 2,165,115
225— 1: 2,164,714
226— 75: 2,164,530
87: 2,165,132
228— 6: 2,164,327
65: 2,164,575
229— 3.5: 2,164,354
6: 2,164,346
2,165,070
2,165,083
33: 2,165,023
36: 2,164,517
41: 2,164,506
52: 2,164,561
230— 24: 2,164,405
38: Re.21,139
95: 2,164,552
96: 2,164,880
134: 2,165,069
250: 2,164,608
232— 21: 2,164,855
235— 61: 2,165,182
236— 1: 2,164,511
9: 2,164,352
2,164,353
2,164,882
15: 2,164,955
25: 2,164,323
34: 2,165,136
44: 2,164,434

236— 45: 2,164,607
46: 2,164,350
74: 2,164,312
93: 2,165,171
240— 10: 2,164,378
11.3: 2,165,193
2,165,194
59: 2,164,529
60: 2,164,898
78: 2,164,527
81: 2,164,546
148: 2,164,901
242— 3: 2,164,336
18: 2,165,018
55.2: 2,164,817
58: 2,165,026
66: 1,165,111
75: 2,164,596
2,164,599
2,164,600
96: 2,165,021
107: 2,164,654
130: 2,164,426
157: 2,164,803
244— 40: 2,164,721
57: 2,164,545
113: 2,164,531
123: 2,164,678
132: 2,164,414
145: 2,164,704
246— 31: 2,164,331
34: 2,164,668
169: 2,164,674
185: 2,164,473
248— 161: 2,164,609
206: 2,164,318
228: 2,164,846
282: 2,164,390
289: 2,164,437
319: 2,164,366
249— 62: 2,165,047
250— 6: 2,165,063
20: 2,164,979
2,165,062
2,165,064
27: 2,164,538
2,165,025
27.5: 2,164,477
2,164,507
2,164,547
2,164,595
2,164,905
2,164,910
2,164,913
2,164,961
2,165,125
36: 2,164,559
2,164,968
40: 2,165,058
41.5: 2,165,048
81: 2,164,533
89: 2,164,997
141: 2,164,951
152: 2,164,922
156: 2,164,891
157: 2,164,555
2,164,931
174: 2,164,892

250— 177: 2,164,699
251— 104: 2,165,096
168: 2,165,036
252— 2: 2,164,500
5: 2,164,564
2,164,565
6: 2,164,723
254— 93: 2,164,621
104: 2,164,615
193: 2,164,894
255— 1: 2,164,857
25: 2,164,606
71: 2,164,348
72: 2,164,598
2,164,652
257— 3: 2,164,730
2,165,138
4: 2,165,094
125: 2,164,605
137: 2,164,854
160: 2,164,628
259— 1: 2,164,542
260— 3: 2,164,326
23: 2,165,140
112: 2,164,798
147: 2,165,034
169: 2,164,524
229: 2,164,416
240: 2,164,793
248: 2,164,705
270: 2,164,767
276: 2,164,782
298: 2,164,783
303: 2,164,784
338: 2,164,355
2,164,356
2,164,357
344: 2,165,151
2,165,184
379: 2,164,952
406: 2,165,130
501: 2,164,587
507: 2,164,932
534: 2,164,781
558: 2,164,787
582: 2,165,165
615: 2,164,431
635: 2,164,440
644: 2,164,774
738: 2,164,368
758: 2,164,400
771: 2,164,367
261— 7: 2,164,974
360: 2,164,763
1033: 2,164,566
262— 4: 2,164,753
8: 2,164,446
263— 19: 2,164,954
33: 2,165,128
53: 2,165,084
265— 2: 2,164,993
16: 2,164,453
266— 4: 2,164,310
6: 2,164,523
267— 19: 2,164,602
52: 2,164,840
57: 2,164,838
2,165,033

267— 70: 2,164,709
270— 47: 2,164,370
271— 2.1: 2,164,919
2.3: 2,164,375
2,164,748
38: 2,165,160
52: 2,165,161
53: 2,164,549
59: 2,165,172
63: 2,164,371
272— 26: 2,164,656
273— 35: 2,164,808
73: 2,164,631
2,164,903
102.2: 2,165,147
105.2: 2,164,340
121: 2,164,361
2,165,059
142: 2,165,145
144: 2,164,682
274— 9: 2,164,778
11: 2,165,073
277— 20: 2,165,001
53: 2,164,419
280— 11.13: 2,164,604
11.26: 2,164,805
47: 2,164,313
95: 2,164,470
106: 2,165,074
281— 3: 2,165,195
282— 1: 2,164,685
285— 10: 2,164,445
90: 2,164,471
91: 2,165,164
94: 2,165,051
2,165,052
175: 2,165,163
286— 6: 2,165,102
287— 12: 2,164,389
288— 3: 2,164,380
290— 2: 2,165,175
38: 2,165,133
292— 263: 2,164,515
275: 2,164,732
2,164,948
335: 2,164,584
349: 2,164,486
294— 31: 2,165,159
106: 2,164,843
296— 44: 2,164,341
2,164,342
66: 2,164,425
299— 150: 2,164,411
301— 6: 2,164,883
13: 2,164,772
132: 2,164,554
197: 2,164,497
309— 43: 2,164,849
312— 20: 2,165,122
43: 2,164,406
134: 2,164,664

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

Re.21,137: 84— 1.17
2,164,319: 4— 69
2,164,321: 4— 70
2,164,326: 260— 3
2,164,339: 33— 172
2,164,347: 12— 14
2,164,367: 260— 771
2,164,368: 260— 738
2,164,370: 270— 47

2,164,380: 288— 3
2,164,381: 174— 84
2,164,384: 146— 43
2,164,400: 260— 758
2,164,417: 158— 99
2,164,437: 248— 289
2,164,451: 123— 122
2,164,458: 84— 465
2,164,518: 184— 5

2,164,571: 29— 103
2,164,572: 29— 103
2,164,628: 257— 160
2,164,654: 242— 107
2,164,656: 62— 141
2,164,700: 123— 24
2,164,739: 214— 120
2,164,750: 18— 47
2,164,763: 261— 30

2,164,809: 84— 1.18
2,164,816: 220— 42
2,164,826: 23— 234
2,164,835: 126— 25
2,164,848: 139— 411
2,164,850: 148— 10
2,164,856: 131— 243
2,164,888: 103— 42
2,164,891: 250— 156

2,164,949: 24— 68
2,164,954: 203— 19
2,164,957: 215— 40
2,164,965: 15— 111
2,164,982: 131— 201
2,164,997: 250— 89
2,165,046: 30— 64
2,165,051: 285— 94
2,165,052: 285— 94

2,165,073: 274— 11
2,165,114: 152— 245
2,165,116: 20— 4
2,165,118: 51— 90
2,165,125: 155— 12
2,165,153: 210— 22
2,165,162: 158— 4
2,165,181: 15— 253

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LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A. C. A. Company, The. (See Crossley, Frank.)

A/S Hansa Bryggeri, Bergen, Norway. Beverages, and syrups and extracts for making the same. Serial No. 416,942; July 11. Class 45.

Adler & Adler, Inc., New York, N. Y. Dresses, suits, skirts, etc. Serial No. 418,961; July 11. Class 39.

Allen, W. I., doing business as Associated Industries, Fort Myers, Fla. Canned pimentos and vegetables. Serial No. 412,323; July 11. Class 46.

Altman, B., & Co., New York, N. Y. Hosiery. Serial No. 419,136; July 11. Class 39.

American Beauty Products Co., Chicago, Ill. Shampoo oils. Serial No. 411,289; July 11. Class 6.

American Character Doll Co., Inc., New York, N. Y. Dolls. Serial No. 419,093; July 11. Class 22.

American Standards Association, New York, N. Y. Publications. Serial No. 417,994; July 11. Class 38.

Armour and Company of Delaware, Chicago, Ill. Granulated soap. Serial No. 419,288; July 11. Class 4.

Associated Industries. (See Allen, W. I.)

Athanasi, Constantine, doing business as Atlantic Laboratory, Boston, Mass. Blood purifier. Serial No. 418,557; July 11. Class 6.

Atlantic Laboratory. (See Athanasi, Constantine.)

Atlantic Sponge & Chamois Corporation, New York, N. Y. Sponges and chamois skins. Serial No. 416,361; July 11. Class 1.

Atlas Powder Company, Wilmington, Del. Flock coated paper or fabric. Serial No. 416,759; July 11. Class 50.

Atlas Powder Company, Wilmington, Del. Flock coated paper or fabric. Serial No. 417,952; July 11. Class 50.

Atlas Supply Company, Newark, N. J. Automobile anti-freeze compound. Serial No. 419,942; July 11. Class 6.

Ballard & Ballard Company, doing business as Pioneer Mills, Louisville, Ky. Flour. Serial No. 418,325; July 11. Class 46.

Barmann, Peter, Brewery, Inc., Kingston, N. Y. Beer and ale. Serial No. 419,216; July 11. Class 48.

Barney, Edwin R., East Cambridge, Mass. Paper and pasteboard boxes and dishes for holding foods and for holders for paper cups. Serial No. 408,001; July 11. Class 2.

Bedford Shirt Company, The, New York, N. Y. Dress, negligee, and sport shirts. Serial Nos. 419,067–8; July 11. Class 39.

Beech-Nut Packing Company, Canajoharie, N. Y. Biscuits. Serial No. 418,559; July 11. Class 46.

Belding Heminway Company, New York, N. Y. Piece goods. Serial No. 419,471; July 11. Class 42.

Bell, Grace A., doing business as Gabel Company (Not Inc.), Chicago, Ill. Oil containing preparation for the skin. Serial No. 417,859; July 11. Class 6.

Bemis Bro. Bag Company, St. Louis, Mo. Bags of laminated material. Serial No. 419,651; July 11. Class 2.

Berako Company. (See Chipman, Ralph N.)

Bermingham & Prosser Co., Chicago, Ill. Art and cover papers. Serial No. 419,652; July 11. Class 37.

Bernson Silk Mills, Inc., New York, N. Y. Piece goods. Serial No. 406,111; July 11. Class 42.

Berry, F. E., Jr. & Co., Inc., Everett, Mass. Sound absorbing material. Serial No. 419,217; July 11. Class 12.

Bloomingdale Bros., Inc., New York, N. Y. Soaps. Serial No. 419,218; July 11. Class 4.

Blosser Company, The, Atlanta, Ga. Powder for the relief of the paroxysms of asthma. Serial No. 419,366; July 11. Class 6.

Blue Ribbon Steel Wool Company. (See Fishman, Louis.)

Bolger, William B., Cleveland, Ohio. Dart game. Serial No. 416,641; July 11. Class 22.

Brough, Edward, doing business as Brough Bottlers Supply Company, Cleveland, Ohio. Beverages. Serial No. 419,009; July 11. Class 45.

Brown Corporation, Quebec, Quebec, Canada. Wood pulp. Serial No. 419,071; July 11. Class 1.

Bullard Company, The, Bridgeport, Conn. Vertical turret lathes. Serial No. 418,287; July 11. Class 23.

Burrough Brothers Manufacturing Company, doing business as Burrough Brothers Mfg. Company, Baltimore, Md., and Cleveland, Ohio. Preparation for use as an expectorant and cough sedative. Serial No. 419,643; July 11. Class 6.

Capitaine, Joseph, doing business as Capitaine Publishing Co., New York, N. Y. Magazine. Serial No. 394,315; July 11. Class 38.

Carroll, J. B., Hat Company, Chicago, Ill. Ladies' hats and hat bodies. Serial No. 407,302; July 11. Class 39.

Central Hardware Co., St. Louis, Mo. Wall tiles. Serial No. 418,916–17; July 11. Class 12.

Certain-Teed Products Corporation, New York, N. Y. Gypsum wallboard and lath. Serial No. 419,290; July 11. Class 12.

Chanticleer Headwear, Inc., Long Island City, N. Y. Hats. Serial No. 417,117; July 11. Class 39.

Chicago Curtain Stretcher Company, Chicago, Ill. Curtain stretchers. Serial No. 418,766; July 11. Class 50.

Chipman, Ralph N., doing business as Berako Company, Bound Brook, N. Y. Machines for the application of insecticides and fungicides. Serial No. 417,323; July 11. Class 23.

Cohen, Goldman & Co., Inc., New York, N. Y. Coats, vests, pants, etc. Serial No. 419,143; July 11. Class 39.

Cohn, H. C., & Co., Rochester, N. Y. Neckties. Serial No. 418,821; July 11. Class 39.

Cohen, Jos. S., & Sons Co., Inc., New York, N. Y. Dresses and frocks. Serial No. 416,893–4; July 11. Class 39.

Cohen, Louis H., New York, N. Y. Umbrellas and parasols. Serial No. 418,767; July 11. Class 41.

Columbia Brewing Company, St. Louis, Mo. Beer. Serial No. 416,284; July 11. Class 48.

Columbus Cycle and Sporting Goods Co., Columbus, Ohio. Bicycles and parts thereof. Serial No. 411,941; July 11. Class 19.

Cotton Shop, Inc., The, New York, N. Y. Ladies' and children's dresses, outer skirts, sweaters, etc. Serial No. 417,264; July 11. Class 39.

Cowles Detergent Company, The, Cleveland, Ohio. Fused alkali silicate. Serial No. 418,282; July 11. Class 6.

Crossley, Frank, doing business as The A. C. A. Company, Cleveland, Ohio. Medicine. Serial No. 419,859; July 11. Class 6.

Curran Corporation, The, Malden, Mass. Solvent cleaner and degreasing compound. Serial No. 419,294; July 11. Class 4.

Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Illuminating equipment for motor vehicles such as search lights, spot lights, etc. Serial No. 403,648; July 11. Class 34.

Davidson, Sidney, Forest Hills, N. Y. Concentrated soup for dogs, puppies, cats, etc. Serial No. 419,074; July 11. Class 46.

Day, Howard D., doing business as High Chemical Company, Philadelphia, Pa. Preparation for treatment of neuritis, neuralgia, etc. Serial No. 417,802; July 11. Class 6.

Delaware, Lackawanna & Western Coal Company, The, New York, N. Y. Coal-burning hot water heaters. Serial No. 418,678; July 11. Class 34.

Derby, Charles, doing business as Universal Utility Company, Gloversville, N. Y. Preparation for cleaning and polishing glass and the like. Serial No. 418,770; July 11. Class 4.

Dermetics, Inc., Seattle, Wash. Blend of oils for conditioning the scalp. Serial No. 419,612; July 11. Class 6.

Detective Comics, Inc., New York, N. Y. Cartoon strip. Serial No. 410,024; July 11. Class 38.

Dewey Beverages, Inc., Alexandria, Va. Soft drinks. Serial No. 419,797; July 11. Class 45.

Douglas, Bernard M., New York, N. Y. Roquefort cheese. Serial No. 415,246; July 11. Class 46.

Epstein, Burney, Inc., New York, N. Y. Textile fabrics in the piece. Serial No. 417,836; July 11. Class 42.

Famous Products Co. (See Neumann, Morton G.)

Federal-Mogul Corporation, Detroit, Mich. Whole and half bearings. Serial No. 411,860; July 11. Class 23.

Feigenson Bros. Co., Inc., Detroit, Mich. Bottles of beverages. Serial No. 419,297; July 11. Class 45.

Fishman, Louis, doing business as Blue Ribbon Steel Wool Company, Brooklyn, N. Y. Steel wool. Serial No. 404,207; July 11. Class 4.

Fitzgibbons Boiler Company, Inc., New York, N. Y. Gas burning boilers. Serial No. 418,190; July 11. Class 34.

Fleisher Yarns, Inc., New York, N. Y. Hand knitting yarns. Serial No. 419,016; July 11. Class 43.

Flodas Chemical Lab. (See Schwartz, Adolph I.)

Flower City Specialty Company, Rochester, N. Y. Boxes for packing merchandise. Serial No. 418,773; July 11. Class 2.

Franklin Coffee Company, The, Columbus, Ohio. Ground peanuts and cashew nuts. Serial No. 417,960; July 11. Class 46.

Fulton Bag & Cotton Mills, Atlanta, Ga. Furniture pads for use with moving and delivery vans. Serial No. 417,363; July 11. Class 50.

Gabel Company (Not Inc.) (See Bell, Grace A.)

Garfinkel & Ritter, New York, N. Y. Lingerie. Serial No. 417,214; July 11. Class 39.

General Chicks. (See Moore, Loy.)

General Food Products Co. (See Safeway Stores, Inc.)

Gillett Canning Company, Gillett, Wis. Canned vegetables. Serial No. 415,507; July 11. Class 46.

Golden, George I., doing business as George Golden, Los Angeles, Calif. Smoking tobacco. Serial No. 418,683; July 11. Class 17.
Goldhaber, Jacob S., Girdletree, Md. Natural flowers and plants. Serial No. 416,416; July 11. Class 1.
Grabosky Brothers, Philadelphia, Pa. Cigars. Serial No. 418,873; July 11. Class 17.
Granitize Laboratories, Burlingame, Calif. Cleaner for automobile bodies having incidental polishing properties. Serial No. 416,558; July 11. Class 4.
Grant, Henry, Latrobe, Pa. Cosmetics, nail polishes, creme polish, etc. Serial No. 408,946; July 11. Class 6.
Gray Chemical Co., The, Roulette, Pa. Activated carbon made from wood. Serial No. 419,554; July 11. Class 6.
Gross, Joseph H., doing business as J. H. Gross & Co., Cleveland, Ohio. Pendants, bracelets, finger rings, etc. Serial No. 413,404; July 11. Class 28.
Gust Corporation, Chicago, Ill. Shoe laces. Serial No. 418,714; July 11. Class 40.
Hannah, Mahala A., doing business as Shed Mfg. Co., Tulsa, Okla. Preparation for athlete's foot, skin tonic, and cosmetic. Serial No. 407,314; July 11. Class 6.
Harvard Brewing Co., Lowell, Mass. Ale, beer, porter, etc. Serial No. 416,376; July 11. Class 48.
Hat Corporation of America, Norwalk, Conn. Hats for men. Serial No. 418,975; July 11. Class 39.
Higginson, George J., New York, N. Y. Dinner sets of earthenware. Serial No. 412,096; July 11. Class 30.
High Chemical Company. (See Day, Howard D.)
Hill, Noah, Clinton, Iowa. Salve. Serial No. 415,291; July 11. Class 6.
Hinds, O. L., Company, The, Burlington, Vt. Sportwear. Serial No. 419,147; July 11. Class 39.
Hirsch, Max, New York, N. Y. Combination china and chrome plate baby plates and food warmers. Serial No. 415,338; July 11. Class 13.
Hollingshead, R. M., Corporation, Camden, N. J. Motor oils. Serial No. 418,339; July 11. Class 15.
Hollywood Rogue Sportswear, Inc., Los Angeles, Calif. Shirts, slack suits, pajamas, etc. Serial No. 419,191; July 11. Class 39.
Horder's Incorporated, Chicago, Ill. Covers for papers. Serial No. 419,668; July 11. Class 37.
Huffman Full Fashioned Mills, Inc., Morganton, N. C. Hosiery. Serial No. 419,425; July 11. Class 39.
Hughes-Autograf Brush Co., Inc., New York and Troy, N. Y. Toilet brushes. Serial No. 419,576; July 11. Class 29.
Hyde Park Breweries Association, Inc., St. Louis, Mo. Beer. Serial No. 419,255; July 11. Class 48.
Industrial Publishing Company, The, Cleveland, Ohio. Publication. Serial No. 414,999; July 11. Class 38.
International Filter Co., Chicago, Ill. Liquid treating apparatus and equipment. Serial No. 415,780; July 11. Class 23.
International Union of United Brewery, Flour, Cereal and Soft Drink Workers of America, The, Cincinnati, Ohio. Yeast, vinegar, malt, and barley. Serial No. 414,741; July 11. Class 46.
Jelleff, Frank R., Inc., Washington, D. C. Women's and misses' shoes and suits. Serial No. 416,801; July 11. Class 39.
Julep Company, The, Chicago, Ill. Beverages, soda fountain syrups, bottlers flavors, etc. Serial No. 416,100; July 11. Class 45.
Junior Toy Corporation, Hammond, Ind. Children's velocipedes. Serial No. 418,484; July 11. Class 22.
Kaylon, Inc., New York, N. Y. Elastic fabrics. Serial No. 415,598; July 11. Class 40.
Knox Company, The, Los Angeles, Calif. Medicinal preparations. Serial Nos. 419,022–3; July 11. Class 6.
Koehler, Ray J., Denver, Colo. Liquid preparation for stimulating growth of hair. Serial Nos. 416,904–5; July 11. Class 6.
Kraut, Isadore B., New York, N. Y. Sulphur mineral bath preparation. Serial No. 417,765; July 11. Class 6.
Kritzer, John B., doing business as Kritzer Contracting Co., Oak Park, Ill. Concrete masonry exterior plaster. Serial No. 411,579; July 11. Class 12.
Langendorf United Bakeries, Inc., San Francisco, Calif. Prepared breakfast cereal food. Serial No. 416,149; July 11. Class 46.
Lederer, Henry, and Brother, Incorporated, Providence, R. I. Combination clock and desk pads. Serial No. 418,781; July 11. Class 37.
Lily-Tulip Cup Corporation, New York, N. Y. Paper cups and covers or lids for paper cups or similar receptacles. Serial No. 418,583; July 11. Class 2.
Liman, Max, doing business as M. Liman Manufacturing Co., Minneapolis, Minn. Snow and sport clothing. Serial No. 417,925; July 11. Class 39.
Little Clover Co., Highland Park, Ill. Thread holding and cutting devices. Serial No. 417,023; July 11. Class 40.
M & R Dietetic Laboratories, Inc., Columbus, Ohio. Condensed milk. Serial No. 418,717; July 11. Class 46.
Mackwin Company, The, Winona, Minn. Insecticide. Serial No. 419,585; July 11. Class 6.
Mancik, William, New York, N. Y. Rubber waterproof innershoe. Serial No. 418,844; July 11. Class 39.
Manischewitz, B., Company, The, Jersey City, N. J., and Cincinnati, Ohio. Crackers or biscuits. Serial No. 415,405; July 11. Class 46.
Manischewitz, B., Company, The, Jersey City, N. J., and ~~Cincinnati~~, Ohio. Crackers or biscuits. Serial No. 415,601–2; July 11. Class 46.
Manischewitz, B., Company, The, Jersey City, N. J., and Cincinnati, Ohio. Crackers or biscuits. Serial No. 416,428; July 11. Class 46.
Metaplast Corporation, New York, N. Y. Chemical composition. Serial No. 419,031; July 11. Class 6.
Meutsch, Voigtländer & Co., vormals Gewerkschaft Wallram, Essen-Ruhr, Germany. Tungsten, molybdenum, titanium, etc. Serial No. 415,731; July 11. Class 14.
Mitsubishi Shoji Kaisha, Ltd., Tokyo, Japan, and New York, N. Y. Fishing gut. Serial No. 420,014; July 11. Class 22.
Mitsubishi Shoji Kaisha, Ltd., Tokyo, Japan, and New York, N. Y. Fishing gut. Serial No. 420,017; July 11. Class 22.
Moore, Loy, doing business as General Chicks, Rich Hill, Mo. Live baby chicks and poultry. Serial No. 417,131; July 11. Class 46.
National Association of Power Engineers, Inc., Chicago, Ill. Periodicals. Serial No. 419,525; July 11. Class 38.
National Fireworks, Inc., West Hanover, Mass. Firecrackers. Serial No. 416,333; July 11. Class 9.
National Silver Company, New York, N. Y. Knives, forks, spoons, etc. Serial No. 417,502; July 11. Class 28.
Neumann, Morton G., doing business as Famous Products Co., Chicago, Ill. Face powder, talcum powder, rouge, etc. Serial No. 415,854; July 11. Class 6.
Neumann, Morton G., doing business as Famous Products Co., Chicago, Ill. Vanishing, lemon, and bleach cream, etc. Serial Nos. 415,855–6; July 11. Class 6.
Neumann, Morton G., doing business as Famous Products Co., Chicago, Ill. Face powder, talcum powder, rouge, etc. Serial No. 415,857; July 11. Class 6.
Neumann, Morton G., doing business as Famous Products Co., Chicago, Ill. Vanishing, lemon, and bleach cream, etc. Serial No. 415,858; July 11. Class 6.
Newman Pharmacal Company, Louisville, Ky. Medicinal preparation. Serial No. 417,813; July 11. Class 6.
O'Brien, Harry E., Sr., doing business as Harry E. O'Brien & Son, Indianapolis, Ind. Clarinets. Serial No. 419,152; July 11. Class 36.
Oesterreichische Heilmittelstelle Gesellschaft m. b. H., Vienna, Austria. Disinfectants, analgesic, and antipyretic preparations. Serial No. 404,322; July 11. Class 6.
Old Hickory Furniture Company, Martinsville, Ind. General articles of furniture. Serial No. 394,380; July 11. Class 32.
Onondaga Marketers, Woodhaven, N. Y. Oil filters. Serial No. 420,070; July 11. Class 31.
Orogold Co., The, Dallas, Tex. Syrups for beverage purposes. Serial No. 415,413; July 11. Class 45.
Pacific Nipple Company. (See Sugarman, Edward.)
Palma Frocks, Inc., New York, N. Y. Dresses, dress ensembles, coats, etc. Serial No. 413,681; July 11. Class 39.
Palmer, Edward D., Portland, Oreg. Chili. Serial No. 390,379; July 11. Class 46.
Paramount Distilling Corporation, Chicago, Ill. Whiskey. Serial No. 419,392; July 11. Class 49.
Perret & Berthoud S. A., Geneva, Switzerland. Watches and parts thereof, stop watches, alarm-clocks, etc. Serial No. 403,277; July 11. Class 27.
Pioneer Mills. (See Ballard & Ballard Company.)
Powell, John, & Co., Inc., New York, N. Y. Series of oil soluble perfume oils. Serial No. 419,561; July 11. Class 6.
Pratt Food Company, Philadelphia, Pa. Horse, cow, sheep, etc. feeds. Serial No. 418,168; July 11. Class 46.
President Novelty & Jewelry Co. Inc., New York, N. Y. Necklaces, bracelets. Serial No. 419,685; July 11. Class 28.
Purzone, Inc., Minneapolis, Minn. Anti-freeze solutions. Serial No. 418,532; July 11. Class 6.
Radiant Finish Company, Chicago, Ill. Varnish-like finish. Serial No. 415,185; July 11. Class 16.
Ramseur, Robert, Bremerton, Wash. Dance floor wax. Serial No. 418,599; July 11. Class 16.
Reinitz, F., & Co. Inc., Long Island City, N. Y. Soaps. Serial No. 418,601; July 11. Class 4.
Reliable Stores Corporation, Baltimore, Md. Suits and overcoats. Serial Nos. 403,782–3; July 11. Class 39.
Remington Arms Company, Inc., Bridgeport, Conn. Cutlery. Serial No. 403,829; July 11. Class 23.
Richmond Screw Anchor Co., Inc., New York, N. Y. Concrete-welding apparatus and parts thereof. Serial No. 419,125; July 11. Class 12.
Riesgo, Ralph A., New York, N. Y. Beverage coolers and equipment and parts therefor. Serial No. 419,634; July 11. Class 31.
Roddenberry, H. D., Santa Maria, Calif. Fresh vegetables. Serial No. 419,158; July 11. Class 46.
Roll-Away Skate Company, The, Cleveland, Ohio. Roller skates. Serial No. 418,266; July 11. Class 22.
Rootone Products, Inc., St. Louis, Mo. Shampoo and scalp massage liquids. Serial No. 420,142; July 11. Class 6.
Rowland, Mary Scott, Ltd., New York, N. Y. Tissue paper. Serial No. 408,209; July 11. Class 37.

Rubatex Distributors, Inc., Ridgefield, Conn. Heat resistant containers used for ice and food preservation. Serial No. 416,439; July 11. Class 2.
Safeway Stores, Inc., doing business as General Food Products Co., Vernon and Oakland, Calif. Canned vegetables. Serial No. 414,895; July 11. Class 46.
St. Louis Pistols & Caps Inc., St. Louis, Mo. Toy paper cap pistol. Serial No. 417,518; July 11. Class 22.
Salemi, J., doing business as J. Salemi Food Products Co. (Not Inc.), Chicago, Ill. Salad oil. Serial No. 406,566; July 11. Class 46.
Schaefer, Oskar, Jersey City, N. J. Translucent silicate oxyphosphate filling for teeth. Serial No. 414,801; July 11. Class 44.
Schaefer, Walter H., Mount Airy, Philadelphia, Pa. Playing cards. Serial No. 420,075; July 11. Class 22.
Schering Corporation, Bloomfield, N. J. Hormone preparation. Serial No. 418,602; July 11. Class 6.
Schmidt, C., Co., The, Cincinnati, Ohio. Refrigerators and refrigerated display cases. Serial No. 419,127; July 11. Class 31.
Schoenling Brewing Company, The, Cincinnati, Ohio. Beer. Serial No. 407,919; July 11. Class 48.
Scholler Brothers, Inc., Philadelphia, Pa. Textile treating composition. Serial No. 419,529; July 11. Class 6.
Schrafft, W. F., & Sons Corporation, Boston, Mass. Candy bars. Serial No. 418,747; July 11. Class 46.
Schwartz, Adolph I., doing business as Flodas Chemical Lab., New York, N. Y. Chemicals, medicines, and pharmaceutical preparations. Serial No. 415,230; July 11. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Composition roofing material. Serial No. 419,047; July 11. Class 12.
Secretaire Manufacturing Company. (See Stenquist, John L.)
Selig Company, The, Atlanta, Ga. Insecticides. Serial No. 418,989; July 11. Class 6.
Sexton, John, & Co., Chicago, Ill. Canned fruits and vegetables. Serial No. 418,853; July 11. Class 46.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Decongestant and stimulant preparations. Serial No. 418,762; July 11. Class 6.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparations for the treatment of infections. Serial No. 418,792; July 11. Class 6.
Shed Mfg. Co. (See Hannah, Mahala A.)
Sheffield Company, The, New London, Conn. Shaving cream. Serial No. 419,349; July 11. Class 4.
Sherman, Sol., doing business as Sherman Bows, New York, N. Y. Neckties. Serial No. 412,879; July 11. Class 39.
Sherwin-Williams Company, The, Cleveland, Ohio. Paints, enamels, lacquers, etc. Serial No. 419,162; July 11. Class 16.
Smith, E. M., Co., Los Angeles, Calif. Brake-block lining. Serial Nos. 419,449–50; July 11. Class 35.
Smith, J. Hungerford, Co., Rochester, N. Y. Processed cherries. Serial No. 416,731; July 11. Class 46.
Smithereen Company, Chicago, Ill. Preparation for exterminating rats and mice. Serial No. 418,653; July 11. Class 6.
Stein, Hall Manufacturing Company, Chicago, Ill. Adhesives. Serial No. 418,373; July 11. Class 5.
Stenquist, John L., doing business as Secretaire Manufacturing Company, Baltimore, Md. Drawing and writing board. Serial No. 419,639; July 11. Class 32.
Sugarman, Edward, doing business as Pacific Nipple Company, San Francisco, Calif. Pipe fittings and pipe nipples. Serial No. 405,185; July 11. Class 13.
Swiss Fabric Group, New York, N. Y. Dresses. Serial No. 419,048; July 11. Class 39.
Tamarin, Edwin H., Forest Hills, Long Island, N. Y. Powder puffs. Serial No. 417,065; July 11. Class 29.
Tandy, John L., Kansas City, Mo. Cleaning and pressing forms. Serial No. 415,527; July 11. Class 24.
Tennison Brothers Incorporated, Memphis, Tenn., and Texarkana, Tex. Sheet metal devices to prevent the entry of termites in building constructions. Serial No. 418,656; July 11. Class 12.
Terre Haute Brewing Company, Inc., Terre Haute, Ind. Beer. Serial No. 418,754; July 11. Class 48.
Thodenol Soap Corp., New York, N. Y. Cleansing preparation for preservation of rubber floors and mats, etc. Serial Nos. 417,427–9; July 11. Class 4.
Tobacco Processing Co., Inc., New York, N. Y. Smoking tobacco and cigarettes. Serial No. 417,720; July 11. Class 17.
Tobler & Co., Chemische Fabrik, Altstatten, Switzerland. Ski wax. Serial No. 414,379; July 11. Class 22.
Tomlinson of High Point, High Point, N. C. Articles of furniture. Serial No. 418,905; July 11. Class 32.
Tomlinson of High Point, High Point, N. C. Articles of furniture. Serial Nos. 419,530–1; July 11. Class 32.
Tylac Company, Monticello, Ill. Tiles and panels. Serial No. 419,095; July 11. Class 12.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Art needlework products. Serial No. 418,764; July 11. Class 42.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Hand knitting yarns. Serial No. 419,006; July 11. Class 43.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Hand knitting yarns. Serial No. 419,054; July 11. Class 43.
United Cigar-Whelan Stores Corporation, New York, N. Y. Cleansing tissues. Serial No. 418,459; July 11. Class 37.
United Cigar-Whelan Stores Corporation, New York, N. Y. Writing tablets, portfolios, envelopes, etc. Serial No. 418,460; July 11. Class 37.
Universal Utility Company. (See Derby, Charles.)
Wald, John R., Company, Huntingdon, Pa. Materials for use in connection with the fabrication of highway markers, other markers, and the like. Serial No. 418,612; July 11. Class 50.
Walgreen Co., Chicago, Ill. Foot preparations. Serial No. 418,663; July 11. Class 6.
Walker, Hiram, & Sons Inc., Peoria, Ill. Dried concentrate from distillers' spent grains. Serial Nos. 419,203–4; July 11. Class 46.
Wasatch Oil Refining Company, Woods Cross and Salt Lake City, Utah. Gasoline. Serial No. 400,711; July 11. Class 15.
Wells, Allan W. "Bill", doing business as Wells Feature Syndicate, Hollywood, Calif. News column. Serial No. 419,131; July 11. Class 38.
Western States Mfg. Co., Sioux City, Iowa. Tire patches (casing boots). Serial Nos. 412,838–40; July 11. Class 35.
Westinghouse Air Brake Company, The, Wilmerding, Pa. Brakes. Serial No. 416,884; July 11. Class 19.
Willard Storage Battery Company, Cleveland, Ohio. Storage batteries and parts thereof. Serial No. 412,017; July 11. Class 21.
Winarick, Ar., Inc., New York, N. Y. Shaving cream. Serial No. 417,900; July 11. Class 4.
Woodruff, F. H., & Sons, Inc., Milford, Conn. Lawn seed mixtures. Serial No. 419,702; July 11. Class 1.
Woodruff, F. H., & Sons, Inc., Milford, Conn. Lawn seed. Serial No. 419,706; July 11. Class 1.
Wrigley, Wm., Jr. Company, Chicago, Ill. Chewing gum. Serial No. 414,382; July 11. Class 46.
Youngstown Welding and Engineering Company, Youngstown, Ohio. Anchors. Serial No. 418,617; July 11. Class 14.

LIST OF REGISTRANTS OF TRADE-MARKS

Air-Tone. (See Kellogg, Rossiter H.)
Alexander, Maude K., Winona, Minn. Feature section in publications. 369,021; July 11; Serial No. 415,369; published May 2, 1939. Class 38.
Allegheny Ludlum Steel Corporation, Brackenridge and Pittsburgh, Pa. House organ. 369,074; July 11; Serial No. 416,937; published May 2, 1939. Class 38.
Allied Construction Co., Inc., Newark, N. J. Metal tile, metal partitions. 369,015; July 11; Serial No. 415,098; published Apr. 25, 1939. Class 12.
Aluminum Company of America, Pittsburgh, Pa. House paint. 369,012; July 11; Serial No. 414,764; published May 2, 1939. Class 16.
American Association of Port Authorities, The, New Orleans, La. Publication. 369,043; July 11; Serial No. 416,009; published Apr. 25, 1939. Class 38.
American Efficiency Bureau. (See Bennett, Charles.)
American Tissue Mills, Holyoke, Mass. Wrapping, waxed, and tissue papers. 369,081; July 11. Class 37.
American Waltham Watch Company, assignor to Waltham Watch Company, Waltham, Mass. Watch movements. 16,874; re-renewed July 30, 1939. Class 27.
Anchor Cap & Closure Corporation, New York and Long Island City, N. Y. Bottle closures. 368,963; July 11; Serial No. 382,081; published May 2, 1939. Class 50.
Antoine De Paris, Inc., New York, N. Y. Soap. 369,057; July 11; Serial No. 416,360; published May 2, 1939. Class 4.
Art Metal Construction Company, Jamestown, N. Y. Copyholders and the stands or supports thereof. 369,087; July 11. Class 37.
Asphalt Process Corporation, New York, N. Y. Emulsified asphalt. 369,070; July 11; Serial No. 416,638; published May 2, 1939. Class 12.
Baird, William M., Chicago, Ill. Refrigerated locker units. 369,023; July 11; Serial No. 415,492; published May 2, 1939. Class 31.
Bauer, W. A., Co., Norristown, Pa. Canned fruits and vegetables. 368,968; July 11; Serial No. 400,678; published May 2, 1939. Class 46.
Behr-Manning Corporation, Troy, N. Y. Coated abrasives. 369,072; July 11; Serial No. 416,831; published May 2, 1939. Class 4.
Behr-Manning Corporation, Troy, N. Y. Coated abrasives. 369,073; July 11; Serial No. 416,835; published May 2, 1939. Class 4.
Beldam Packing & Rubber Company Limited, The, assignor, by mesne assignments, to The Beldam Packing & Rubber Co. Limited, London, England. Packing. 126,128; renewed July 29, 1939.

Bendiner & Schlesinger, Inc. (See Schlesinger, Maurice F., assignor.)
Bennett, Charles, doing business as American Efficiency Bureau, St. Louis, Mo. Leaflets relating to the subject of salesmanship. 368,984; July 11; Serial No. 411,113; published Apr. 25, 1939. Class 38.
Bennett Incorporated, Cambridge, Mass. Liquid wax. 369,024; July 11; Serial No. 415,539; published Apr. 11, 1939. Class 16.
Benson Fish Company, Chicago, Ill. Canned sardines and salmon, etc. 369,003; July 11; Serial No. 413,615; published May 2, 1939. Class 46.
Bonds-17 Dog Food Company, Los Angeles, Calif. Dog food. 369,034; July 11; Serial No. 415,872; published May 2, 1939. Class 46.
Bradshaw, R. D., and Sons, Wendell, Idaho. Honey. 369,099; July 11. Class 46.
Breimeyer, Henry C., to John Kuich, St. Louis, Mo., successor. Beverages and syrups for the manufacture of the same. 127,814; renewed Dec. 9, 1939.
Brouwer, S. J., Shoe Company, Milwaukee, Wis. Leather shoes. 127,264; renewed Nov. 4, 1939.
Brunswick-Balke-Collender Company, The, Chicago, Ill. Bowling alley ball returns and parts thereof. 369,101; July 11. Class 22.
Bry, Edwin & Louis, Inc., New York, N. Y. Textile fabrics. 369,058; July 11; Serial No. 416,399; published May 2, 1939. Class 42.
Burnham & Morrill Company, Portland, Maine. Canned beans. 368,991; July 11; Serial No. 412,590; published May 2, 1939. Class 46.
Butt, H. E., Grocery Company, Harlingen and Corpus Christi, Tex. Canned citrus juices. 369,075; July 11; Serial No. 416,946; published May 2, 1939. Class 45.
Carpenter-Morton Company, Boston, Mass. Paints and painters' materials. 126,649; renewed Sept. 30, 1939.
Century Engineering Corporation, Cedar Rapids, Iowa. Oil and gas burning furnace units. 369,020; July 11; Serial No. 415,323; published May 2, 1939. Class 34.
Charles Paint Research Co. (See Timmons, Lee R.)
Checkmaster Plan, Inc., New York, N. Y. Advertising pamphlets. 369,011; July 11; Serial No. 414,686; published May 2, 1939. Class 38.
Churngold Corporation, The, Cincinnati, Ohio. Oleomargarine. 369,031; July 11; Serial No. 415,834; published May 2, 1939. Class 46.
Cline, Winfield E., doing business as Cline Advertising Service, Boise, Idaho. Printing mats, electrotypes, stereotypes, etc. 368,970; July 11; Serial No. 402,678; published May 2, 1939. Class 50.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Scripts. 369,032; July 11; Serial No. 415,835; published May 2, 1939. Class 38.
Congoleum-Nairn Inc., Kearny, N. J. Wax preparations. 369,035; July 11; Serial No. 415,877; published May 2, 1939. Class 16.
Connor, James R., New York, N. Y. Devices for displaying in co-relation, samples or representatives of home furnishings. 369,018; July 11; Serial No. 415,282; published May 2, 1939. Class 50.
Crompton Company, West Warwick, R. I. Corduroy fabrics. 369,061; July 11; Serial No. 416,457; published May 2, 1939. Class 42.
Davigner, Harry, New York, N. Y. Luggage. 369,089; July 11. Class 3.
Dawson, George C., Louisville, Ky., assignor to Madison Tobacco Company, Inc., Wilmington, Del. Cigarettes. 369,028; July 11; Serial No. 415,685; published May 2, 1939. Class 17.
De Met's, Inc., Chicago, Ill. Candy. 369,079; July 11; Serial No. 417,361; published May 2, 1939. Class 46.
Diesel Engines, Inc., New York, N. Y. Magazine. 369,059; July 11; Serial No. 416,406; published Apr. 25, 1939. Class 38.
Ditton, Incorporated. (See Duplicator Manufacturing Company, assignor.)
Druck, Murray, New York, N. Y. Curtains, drapes, spreads, etc. 369,016; July 11; Serial No. 415,109; published May 2, 1939. Class 42.
Duke Manufacturing Co., St. Louis, Mo. Food warmers, covers for food warmers, and top plates therefor. 369,025; July 11; Serial No. 415,587; published May 2, 1939. Class 13.
Duncan, John A., doing business as Jad's Service, Cleveland, Ohio. News feature or column. 368,999; July 11; Serial No. 413,471; published Apr. 25, 1939. Class 38.
Duplicator Manufacturing Company, assignor to Ditto, Incorporated, Chicago, Ill. Duplicating-rolls for duplicating-machines. 127,223–4; renewed Oct. 28, 1939.
East African Tanning Extract Company Limited, Nairobi, Kenya, Africa. Bark and bark extracts. 368,976; July 11; Serial No. 406,617; published May 2, 1939. Class 1.
Ehlers, Albert, Inc., Brooklyn, N. Y. Coffee. 369,036; July 11; Serial No. 415,886; published May 2, 1939. Class 46.
Eisenberg & Weinstein, Inc., New York, N. Y. Corduroy with a velvet finish. 369,004; July 11; Serial No. 413,984; published Feb. 21, 1939. Class 42.
Electricooker, Inc., Newburyport, Mass. Salted nuts. 369,054; July 11; Serial No. 416,319; published May 2, 1939. Class 46.
Engert, Hyman E., doing business as Victor Patch Co., Chicago, Ill. Patches for tires and tubes and rubber solvent used therewith. 369,077; July 11; Serial No. 417,206; published May 2, 1939. Class 35.
Equity Press, Inc., The, New York, N. Y. Illustrated journal for the medical profession. 369,040; July 11; Serial No. 415,939; published May 2, 1939. Class 38.
Esterbrook Steel Pen Manufacturing Company, The, Camden, N. J. Pens, pen holders, mechanical pencils, etc. 369,047; July 11; Serial No. 416,184; published Apr. 25, 1939. Class 37.
Federated Mills, Inc., New York, N. Y. Tissue sheets and paper towels. 368,969; July 11; Serial No. 402,296; published May 2, 1939. Class 37.
Ferro Enamel Corporation, Cleveland, Ohio. Porcelain enamel frit and opacifiers. 369,009; July 11; Serial No. 414,559; published May 2, 1939. Class 1.
Financial Supervision, Incorporated, New York, N. Y. Publication. 368,996; July 11; Serial No. 413,265; published May 2, 1939. Class 38.
Firestone Tire & Rubber Company, The, Akron, Ohio. Bicycles. 368,962; July 11; Serial No. 381,804; published Oct. 5, 1937. Class 19.
Fischer, Carl, Musical Instrument Co. Inc., New York, N. Y. Piano accordions. 369,091; July 11; Class 36.
Fitzgibbons Boiler Company, Inc., New York, N. Y. Draft regulating damper for boilers. 368,997; July 11; Serial No. 413,440; published May 2, 1939. Class 34.
Fitzgibbons Boiler Company, Inc., New York, N. Y. Draft regulating baffle for boilers. 368,998; July 11; Serial No. 413,442; published May 2, 1939. Class 34.
Fitzgibbons Boiler Company, Inc., New York, N. Y. Boilers. 369,000–1; July 11; Serial Nos. 413,501–2; published May 2, 1939. Class 34.
Fitzgibbons Boiler Company, Inc., New York, N. Y. Boilers. 369,002; July 11; Serial No. 413,504; published May 2, 1939. Class 34.
Flexideal Dry Mat Co. (See Sullivan, William J.)
Flintkote Company, The, Boston, Mass., to The Flintkote Company, New York, N. Y. Roofing material. 125,805; renewed June 17, 1939.
Florida Fruit Canners, Inc., Frostproof, Fla. Canned grapefruit, peas, tomato juice, etc. 368,967; July 11. Serial No. 398,351; published May 2, 1939. Class 46.
Folsom Company, The, Dallas, Tex. Gas stoves, ranges, heaters, etc. 369,053; July 11; Serial No. 416,253; published May 2, 1939. Class 34.
Grandpa Brands Company, Cincinnati, Ohio. Beverages and for the concentrates thereof. 369,069; July 11; Serial No. 416,631; published May 2, 1939. Class 45.
Graton & Knight Manufacturing Company, The, assignor to Graton & Knight Company, Worcester, Mass. Leather belting. 127,615; renewed Nov. 18, 1939.
Greenway Brewery Co., Inc., Syracuse, N. Y. Beer and ale. 368,994; July 11; Serial No. 412,969; published May 2, 1939. Class 48.
Grove Laboratories, Inc., The. (See Paris Medicine Company, assignor.)
Haig, J. F., & Co. Ltd., assignor to J. F. Haig & Co. Ltd., Belfast, Ireland. Gents' dress, negligée, and work shirts, etc. 127,409; renewed Nov. 11, 1939.
Hanover Food Products Co., Inc., Baltimore, Md. Canned soups and vegetables. 369,017; July 11; Serial No. 415,276; published May 2, 1939. Class 46.
Hart, Joe W., Cleveland, Ohio. Trailers. 368,995; July 11; Serial No. 413,208; published May 2, 1939. Class 19.
Hartung Brothers, New York, N. Y. Beverages and flavoring syrups and extracts. 369,086; July 11. Class 45.
Heimbinder, Barney A., New York, N. Y. Loose-leaf binders. 369,088; July 11. Class 37.
Herbener, Gabrielle, Thomasville, Ga. Salad dressing. 369,092; July 11. Class 46.
Hessig-Ellis Drug Co., Memphis, Tenn., assignor, by mesne assignments, to William J. Wardall, trustee of the Estate of McKesson & Robbins, Incorporated, New York, N. Y. Hair-color restorer, depilatory, liquid shampoo, and hair-tonic. 125,811; renewed June 17, 1939.
Hoffman-Harris, Inc., New York, N. Y. Publication. 369,026; July 11; Serial No. 415,648; published May 2, 1939. Class 38.
Insulite Company, The, Minneapolis, Minn. Fiber composition board blocks. 369,007; July 11; Serial No. 414,320; published Apr. 25, 1939. Class 12.
Insulite Company, The, Minneapolis, Minn. Coated fiber board. 369,013; July 11; Serial No. 414,809; published Apr. 25, 1939. Class 12.
Insulite Company, The, Minneapolis, Minn. Sound absorbing board and blocks, asbestos siding, etc. 369,022; July 11; Serial No. 415,392; published Apr. 25, 1939. Class 12.
Iodent Chemical Company, Detroit, Mich. Tooth-paste. 127,621; renewed Nov. 18, 1939.
International Brotherhood of Paper Makers, Albany, N. Y. Papeteries and papers. 369,019; July 11; Serial No. 415,292; published May 2, 1939. Class 37.
Jad's Service. (See Duncan, John A.)
Jergens, Andrew, Company, The, Cincinnati, Ohio. Perfumes and toilet waters. 127,424; renewed Nov. 11, 1939.

Jessen Creamery Company, Casper, Wyo. Butter, ice cream, and cottage cheese. 369,095; July 11. Class 46.
Johns-Manville Corporation, New York, N. Y. Acoustical sheet material. 369,060; July 11; Serial No. 416,423; published May 2, 1939. Class 12.
Kellogg, Rossiter H., doing business as Air-Tone, Columbus, Ohio. Odorizing container-dispenser for attachment for electric fans. 369,082; July 11. Class 2.
Kensington, Incorporated, New Kensington, Pa. Ornamental boxes and trays for tobacco and cigarettes, etc. 368,961; July 11; Serial No. 374,198; published May 2, 1939. Class 8.
Kuich, John. (See Breimeyer, Henry C.)
Leigh, Ethel T., doing business as Ethel Leigh Studio, New York, N. Y. Artistic drawings for textile designs. 369,048; July 11; Serial No. 416,194; published Apr. 25, 1939. Class 38.
Libbey, W. S., Company, Lewiston, Maine. Blankets and piece goods. 369,066; July 11; Serial No. 416,612; published May 2, 1939. Class 42.
Lightfoot Schultz Co., New York, N. Y., and Hoboken, N. J. Soap powder and flakes, laundry soaps, etc. 369,027; July 11; Serial No. 415,718; published May 2, 1939. Class 4.
Linkman, M., & Company, Chicago, Ill. Smoking pipes. 369,094; July 11. Class 8.
Loewenberg, Fritz, New York, N. Y. Photosensitive electricity generating devices. 369,084; July 11. Class 21.
London House, Ltd., New York, N. Y. Cigars and smoking tobacco, chewing tobacco, etc. 369,085; July 11. Class 17.
Lyman, Franklin, doing business as F. Lyman Coffee & Tea Co., New York, N. Y. Coffee, tea, and spices. 369,010; July 11; Serial No. 414,572; published May 2, 1939. Class 46.
Madison Tobacco Company, Inc. (See Dawson, George C.)
Malkin-Illion Corporation, Newark, N. J. Vending machines and coin devices therefor. 369,067; July 11; Serial No. 416,613; published May 2, 1939. Class 23.
Mars Signal Light Co., Oak Park, Ill. Electric headlight and signal lamps. 368,964; July 11; Serial No. 385,052; published May 2, 1939. Class 21.
Martin Brothers Electric Co., The, Cleveland, Ohio. Electric hair driers. 368,973; July 11; Serial No. 404,317; published May 2, 1939. Class 44.
Mayer, Adolph, New York, N. Y. Children's hats. 126,879; renewed Oct. 7, 1939.
McDermott Fruit Company, Riverside, Calif. Fresh citrus fruit. 368,982; July 11; Serial No. 410,471; published Nov. 15, 1938. Class 46.
McKesson & Robbins, Incorporated. (See Hessig-Ellis Drug Co.)
Midland Flour Milling Company, The, doing business as Newton Milling & Elevator Co., Kansas City, Mo. Wheat flour. 368,974; July 11; Serial No. 405,562; published May 2, 1939. Class 46.
Monarch Leather Company, Chicago, Ill. Leather. 369,083; July 11. Class 1.
Moore Oil Company, The, Cincinnati, Ohio, to The Pure Oil Company, Chicago, Ill., successor. Soluble oil used for the treatment of silk. 127,855; renewed Dec. 9, 1939.
Moran, Michael F., doing business as The Moran Paint Co., Dayton, Ohio. Paints. 368,983; July 11; Serial No. 416,842; published May 2, 1939. Class 16.
Morrow, William, & Company, Inc., New York, N. Y. Pencils, blank forms, blank books, etc. 368,985; July 11; Serial No. 411,304; published May 2, 1939. Class 37.
Mullins, J. J., & Co., New York, N. Y. Butter. 369,049; July 11; Serial No. 416,199; published May 2, 1939. Class 46.
NEA Service, Inc., Cleveland, Ohio. Comic drawings. 369,050; July 11; Serial No. 416,200; published May 2, 1939. Class 38.
NEA Service, Inc., Cleveland, Ohio. Comic drawings. 369,051–2; July 11; Serial Nos. 416,201–2; published Apr. 25, 1939. Class 38.
N. V. Cultuur Maatschappy Siloewok Sawangan, Samarang, West Java, Netherland, India. Kapok, kapok seeds and rubber. 368,992; July 11; Serial No. 412,657; published May 2, 1939. Class 1.
N. V. Cultuur Maatschappy Siloewok Sawangan, Samarang, West Java, Netherland, India. Cocoa and coffee. 368,993; July 11; Serial No. 412,658; published May 2, 1939. Class 46.
N. V. Hollandsche Draad- en Kabelfabriek, Amsterdam, Netherlands. Thermal insulating sheet materials and corrosion resistant coverings. 369,006; July 11; Serial No. 414,305; published May 2, 1939. Class 12.
Nash-Finch Company, Minneapolis, Minn. Canned fruits, vegetables, fruit juices, etc. 369,014; July 11; Serial No. 414,883; published May 2, 1939. Class 46.
Newton Milling & Elevator Co. (See Midland Flour Milling Company, The.)
New York Evening Journal, Inc., New York, N. Y. Newspaper section. 369,044; July 11; Serial No. 416,109; published May 2, 1939. Class 38.
Occupational Index, Inc., Frenchtown, N. J., and New York, N. Y. Monthly bulletin. 369,039; July 11; Serial No. 415,931; published May 2, 1939. Class 38.
O'Hara, Levy & Mahon Inc., New York, N. Y. Piece goods. 368,972; July 11; Serial No. 403,556; published May 2, 1939. Class 42.
Omega Chemical Company, The, New York, N. Y., assignor to Omega Chemical Co., Inc., Jersey City, N. J. Preparation for the treatment of certain named diseases. 127,775; renewed Dec. 2, 1939.
Oneida Ltd., Sherrill and Oneida, N. Y., and Northampton, Mass. Silver plated flatware and cutlery. 369,063; July 11; Serial No. 416,579; published Apr. 25, 1939. Class 28.
Oxnard Citrus Ass'n, Hueneme and Oxnard, to Oxnard Citrus Association, Hueneme, Calif. Fresh citrus fruits. 127,469–70; renewed Nov. 11, 1939.
Paris Medicine Company, St. Louis, Mo., assignor to The Grove Laboratories, Inc., Wilmington, Del. Antiseptic healing-salve. 126,885; renewed Oct. 7, 1939.
Parke, Davis & Company, Detroit, Mich. Adhesive bandages. 369,102; July 11. Class 44.
Parrot Speed Fastener Corporation, New York, and Long Island City, N. Y. Machine staples. 368,988; July 11; Serial No. 412,080; published May 2, 1939. Class 13.
Patterson, Eleanor M., doing business as Times-Herald, Washington, D. C. Newspaper. 369,046; July 11; Serial No. 416,158; published Apr. 25, 1939. Class 38.
Perfect Circle Company, The, Hagerstown, Ind. Trade periodical. 369,071; July 11; Serial No. 416,741; published May 2, 1939. Class 38.
Personal Book Shop, Inc., The, Boston, Mass. Books and magazines. 369,055; July 11; Serial No. 416,336; published May 2, 1939. Class 38.
Pickands, Mather & Company, Cleveland, Ohio. Coal. 369,030; July 11; Serial No. 415,794; published May 2, 1939. Class 1.
Pittsburgh & Ohio Mining Company, The, Cleveland, Ohio. Coal. 368,977; July 11; Serial No. 406,825; published May 2, 1939. Class 1.
Pittsburgh Plate Glass Company. (See Red Wing Linseed Oil Company, assignor.)
Podmore, J. W., & Sons, Honolulu, Hawaii. Fresh deciduous fruits and vegetables. 369,093; July 11. Class 46.
Pure Oil Company, The. (See Moore Oil Company, The.)
Red Wing Linseed Oil Company, Newark, N. J., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Linseed-oil. 126,755; renewed Sept. 30, 1939.
Red Wing Linseed Oil Company, Newark, N. J., assignor to Pittsburgh Plate Glass Company, Pittsburgh, Pa. Animal and stock foods. 127,482; renewed Nov. 11, 1939. Class 46.
S. M. A. Corporation, Chicago, Ill. Food for infant feeding. 369,064; July 11; Serial No. 416,585; published May 2, 1939. Class 46.
Sander Engraving Co., The, Chicago, Ill. Wood engravings for printing purposes. 369,100; July 11. Class 50.
San Fernando Heights Lemon Association, San Fernando, Calif. Fresh citrus fruit. 369,078; July 11; Serial No. 417,346; published May 2, 1939. Class 46.
Scheuer, C., Company, New York, N. Y. Lockets, jewel boxes, cuff links, etc. 369,041; July 11; Serial No. 415,962; published May 2, 1939. Class 28.
Schlesinger, Maurice F., assignor to Bendiner & Schlesinger, Inc., New York, N. Y. Remedy to relieve constipation, etc. 127,248; renewed Oct. 28, 1939.
Schuylkill Silk Mills, now, by change of name, to Vanity Fair Silk Mills, Reading, Pa. Garment. 127,784; renewed Dec. 2, 1939.
Semon Bache & Company, New York, N. Y. Colored glass tiles. 368,971; July 11; Serial No. 403,094; published Apr. 25, 1939. Class 12.
Shapiro & Aronson, Inc., New York, N. Y. Lighting reflectors and shades. 369,045; July 11; Serial No. 416,116; published May 2, 1939. Class 34.
Shawnee Milling Company, Shawnee, Okla. Feeds. 369,056; July 11; Serial No. 416,343; published May 2, 1939. Class 46.
Shubs, Samuel, doing business as Shubs Tobacco Company, New Haven, Conn. Smoking tobacco. 369,037; July 11; Serial No. 415,919; published May 2, 1939. Class 17.
Simmons Hardware Company, St. Louis, Mo. Galvanized-iron baskets. 126,214; renewed July 29, 1939.
Smith, Francis C., Allen, Okla. Souvenir post cards. 369,033; July 11; Serial No. 415,864; published Apr. 25, 1939. Class 38.
Smith, J. H., Veneers, Inc., Chicago, Ill. Wood veneer product. 369,090; July 11. Class 12.
Southern Saddlery Company, Chattanooga, Tenn. Golf bags. 369,038; July 11; Serial No. 415,920; published May 2, 1939. Class 22.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Piston rings. 369,080; July 11; Serial No. 417,510; published May 2, 1939. Class 35.
Stapley & Smith, assignor, by mesne assignments, to Stapley & Smith, Limited, London, England. Underclothing, garments, embroideries, laces, etc. 17,012 3; re-renewed Sept. 10, 1939.

St. Regis Paper Company, New York, N. Y. Writing papers. 368,981; July 11; Serial No. 409,630; published May 2, 1939. Class 37.
Sullivan, William J., doing business as Flexideal Dry Mat Co., New York, N. Y. Matrix or dry mat. 368,965–6; July 11; Serial Nos. 394,474–5; published Jan. 4, 1938. Class 50.
Three Millers Inc., Boston, Mass. Marshmallow. 369,097; July 11. Class 46.
Times-Herald. (See Patterson, Eleanor M.)
Timmons, Lee R., doing business as Charles Paint Research Co., Kansas City, Mo. Paint, varnish, and lacquer softener. 369,068; July 11; Serial No. 416,621; published May 2, 1939. Class 16.
Trade-Wind Motorfans, Inc., Los Angeles, Calif. Fans and blowers, heating, ventilating and cooling and air conditioning units. 368,986–7; July 11; Serial Nos. 412,013–14; published May 2, 1939. Class 34.
Trump Products Corporation, New York, N. Y. Packaged sausage and canned ham. 368,979; July 11; Serial No. 408,982; published May 2, 1939. Class 46.
Tyree, J. S., Chemist, Inc., Washington, D. C. Antiseptic powders. 127,796; renewed Dec. 2, 1939.
United States Smelting Refining and Mining Company. Portland, Maine, and Boston, Mass. Zinc in slabs or pigs. 369,076; July 11; Serial No. 416,976; published May 2, 1939. Class 14.
Vanity Fair Silk Mills. (See Schuylkill Silk Mills.)
Vereinigte Deutsche Metallwerke Aktiengesellschaft, Frankfort-on-the-Main-Heddernheim, Germany. Bituminous cements and waterproofing material. 369,008; July 11; Serial No. 414,544; published Apr. 25, 1939. Class 12.
Victor Patch Co. (See Engert, Hyman E.)
Vogue Needlecraft Company, Waldwick, N. J. Household and fancy linens, textile material and novelty goods. 369,096; July 11. Class 40.
Waconia Sorghum Company, Cedar Rapids, Iowa. Field seeds. 369,098; July 11. Class 1.
Waite Grass Carpet Company, by change of name to Waite Carpet Company, Oshkosh, Wis. Grass rugs. 126,225; renewed July 29, 1939.
Waltham Watch Company. (See American Waltham Watch Company, assignor.)
Wardall, William J. (See Hessig-Ellis Drug Co., assignor.)
Warwick Club Gingerale Co., Inc., West Warwick, R. I. Orange dry soda, cream soda, grape soda, etc. 369,065; July 11; Serial No. 416,590; published May 2, 1939. Class 45.
Weatherall Engineers Incorporated, Providence, R. I. Fluid fuel burners. 368,980; July 11; Serial No. 409,600; published May 2, 1939. Class 34.
Weinreich, Sol E., doing business as Weinreich Brothers Company, New York, N. Y. Pearls. 369,042; July 11; Serial No. 416,005; published Apr. 25, 1939. Class 28.
Welch Fruit Products Co., Chicago, Ill. Flavorings for ice creams. 368,978; July 11; Serial No. 408,142; published May 2, 1939. Class 46.
Wells, Allan W. "Bill", doing business as Wells Feature Syndicate, San Antonio, Tex. News column. 369,062; July 11; Serial No. 416,493; published May 2, 1939. Class 38.
West Coast Lumbermen's Association, Seattle, Wash. Lumber, woodwork, paneling, etc. 368,989–90; July 11; Serial Nos. 412,479–80; published Apr. 25, 1939. Class 12.
West Coast Packing Co., Los Angeles, assignor to West Coast Packing Corporation, Long Beach, Calif. Canned fish, fruit, and vegetables. 126,370; renewed Aug. 19, 1939.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical insulators. 126,588; renewed Sept. 16, 1939.
Weston, Duncan, & Company Limited, London, England. Whisky. 369,103; July 11. Class 49.
Wilcox, J. W., & Follett Co., Chicago, Ill. Publication. 368,975; July 11; Serial No. 405,861; published May 2, 1939. Class 38.
Williams, Frank B., assignor to I. B. Williams and Sons, Dover, N. H. Leather. 125,697; renewed June 3, 1939.
Wineland, Benjamin G., Great Bend, Kans. Liniment. 125,858; renewed June 17, 1939.
Woodman, A. G., Company, Grand Rapids, Mich. Bee smokers. 369,005; July 11; Serial No. 414,090; published May 2, 1939. Class 50.

LIST OF REGISTRANTS OF LABELS

Awful Fresh MacFarlane, Oakland, San Francisco, and Berkeley, Calif. Golden Gate International Exposition Package. For Chocolates, Candy, and Nuts. 53,236; July 11.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Fruited Oat Cookies. For Fruited Oat Cookies. 53,237; July 11.
Braun Baking Company, Pittsburgh, Pa. Pantry Package. For Wrappers for Loaves of Bread. 53,238; July 11.
Brenner, Nolan P., et al., trustees. (See Selberling, G. F., Schantz, and Brenner.)
Comstock Canning Corporation, Newark, N. Y. Comstock. For Whole Beets. 53,239; July 11.
Comstock Canning Corporation, Newark, N. Y. Comstock. For Sliced Apples. 53,240; July 11.
Cowan, Harry B., Los Angeles, Calif. Kant-Fog Glass Cleaner. For a Glass Cleaner. 53,241; July 11.
Davis & Pitann Ltd., Chicago, Ill. Salvus Sutures. For Sutures. 53,242; July 11.
Esty, Alfred H., Santa Cruz, Calif. The Can with the Opening Date. For Cans. 53,243–4; July 11.
Liane Incorporated, Freeport, Ill. Liane Quality-Tested Shampoo. For a Shampoo. 53,250; July 11.
Little Brown Jug Products Company, St. Louis, Mo. Summer Delight Orange Flavored Syrup. For an Orange Flavored Syrup. 53,251; July 11.
Long, W. E., Co., The, Chicago, Ill. Schmidt's Old Home Pantry Package White Bread. For Bread. 53,252; July 11.
Maggot Products Company, Chicago, Ill. Prolarmion. For a Liquid Used as a Thoroughly Saturated Wet Dressing. 53,253; July 11.
Mannly Corporation, Minneapolis, Minn. Munchee Grain Buds. For a Health Food. 53,254; July 11.
Mead Johnson & Company, Evansville, Ind. Mead's Powdered Lactic Acid with Dextri-Maltose No. 1. For Product Containing Whole Milk, Acidified with Lactic Acid, and Added Maltose and Dextrins, Homogenized and Spray-Dried. 53,245; July 11.
Mead Johnson & Company, Evansville, Ind. Mead's Mineral Oil with Malt Syrup. For Homogenized Mixture of White Mineral Oil and Malt Syrup, with Emulsifying Agents, and 2% Alcohol by Volume. 53,246; July 11.
Mead Johnson & Company, Evansville, Ind. Sobee. For a Mixture of Soy Bean Flour, Virgin Olive Oil, Arrowroot Starch, Maltose and Dextrins, Calcium Phosphate Dibasic and Sodium Chloride, Which Has Been Homogenized, Cooked, Dried and Powdered. 53,247; July 11.
Mead Johnson & Company, Evansville, Ind. Alacta. For a Homogenized, Spray-Dried Mixture of Approximately Equal Parts of Skim Milk and Whole Milk. 53,248; July 11.
Mead Johnson & Company, Evansville, Ind. Olac. For a Homogenized, Spray-Dried Mixture of Skim Milk, Maltose and Dextrins, Virgin Olive Oil, Calcium Caseinate and Halibut Liver Oil. 53,249; July 11.
Penick & Ford, Ltd. Incorporated, New York, N. Y. Brer Rabbit. For Corn and Georgia Cane Syrup. 53,255; July 11.
Sampson, Farris A., Louisville, Ky. Cinderella Slippers—Boots for Beauty. For Slippers. 53,256; July 11.
Schantz, J. Thomas, et al., trustees. (See Selberling, G. F., Schantz, and Brenner.)
Selberling, George F., J. Thomas Schantz, Nolan P. Brenner, trustees of the estate of Harry C. Trexler, deceased, Allentown, Pa. Buffalo Brand. For Apples. 53,257; July 11.
Staib, Arthur, New York, N. Y. R. H. Macy & Co., Inc. For Shoes. 53,258; July 11.
Standard Brands Incorporated, New York, N. Y. Fermaloid. For Dough Improver. 53,259; July 11.
Standard Brands Incorporated, New York, N. Y. Arkady. For Dough Improver. 53,260; July 11.
Standard Nut Margarine Company, Indianapolis, Ind. Blue Bonnet. For Vitaminized Oleomargarine. 53,261; July 11.
Townsend, W. L., Imperial, Calif. Townsend's Red Seal Brand. For Wines. 53,262; July 11.
Trexler, Harry C., Estate of. (See Selberling, G. F., Schantz, and Brenner.)
Westgate Sea Products Co., San Diego, Calif. Breast O' Chicken. For Canned Tuna Fish. 53,263; July 11.

LIST OF REGISTRANTS OF PRINTS

Admiracion Laboratories, Inc., doing business as Admiracion Laboratories, Harrison, N. J. For Hair That Has Been Abused. For Oil Shampoo. 17,486; July 11.
Danciger Oil & Refineries, Inc., Tulsa, Okla. Road Runner Racer. For Gasoline. 17,487; July 11.
General Mills, Inc., Minneapolis, Minn. 'We Blew Corn Into Enticing "Bubbles" . . . To Give You Something Entirely New For Breakfast! For Cereal Food. 17,488; July 11.
Kerman Stores Company, doing business as Kermans, Chicago, Ill. The Clothes You Buy at Kermans. For Women's Coats, Suits, Dresses, Blouses, Furs and Millinery. 17,489; July 11.
Marchant Calculating Machine Company, Oakland, Calif. Accuracy Controller. For Calculating Machines. 17,490; July 11.
United Distributors, Incorporated, Louisville, Ky. Burneaze. For an External Emollient for Burns and Sunburn. 17,491; July 11.
Vogue Rubber Company, Chicago, Ill. Vogue Tyre. For Automobile Tires. 17,492; July 11.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Bark and bark extracts. East African Tanning Extract Company Limited. 368,976; July 11; Serial No. 406,617; published May 2, 1939.
Coal. Pickands, Mather & Company. 369,030; July 11; Serial No. 415,794; published May 2, 1939.
Coal. Pittsburgh & Ohio Mining Company. 368,977; July 11; Serial No. 406,825; published May 2, 1939.
Kapok, kapok seeds and rubber. N. V. Cultuur Maatschappy Siloewok Sawangan. 368,992; July 11; Serial No. 412,657; published May 2, 1939.
Leather. Monarch Leather Company. 369,083; July 11.
Leather. F. B. Williams. 125,697; renewed June 3, 1939.
Porcelain enamel frit and opacifiers. Ferro Enamel Corporation. 369,009; July 11; Serial No. 414,559; published May 2, 1939.
Seeds, Field. Waconia Sorghum Company. 369,098; July 11.

CLASS 2

Baskets, Galvanized-iron. Simmons Hardware Company. 126,214; renewed July 29, 1939.
Container-dispenser for attachment to electric fans, Odorizing. R. H. Kellogg. 369,082; July 11.

CLASS 3

Luggage. H. Davigner. 369,089; July 11.

CLASS 4

Abrasives, Coated. Behr-Manning Corporation. 369,072; July 11; Serial No. 416,831; published May 2, 1939.
Abrasives, Coated. Behr-Manning Corporation. 369,073; July 11; Serial No. 416,835; published May 2, 1939.
Soap. Antoine De Paris. 369,057; July 11; Serial No. 416,360; published May 2, 1939.
Soap powder and flakes, laundry soaps, etc. Lightfoot Schultz Co. 369,027; July 11; Serial No. 415,718; published May 2, 1939.

CLASS 6

Hair-color restorer, depilatory, liquid shampoo, and hair-tonic. Hessig-Ellis Drug Co. 125,811; renewed June 17, 1939.
Liniment. B. G. Wineland. 125,858; renewed June 17, 1939.
Oil used for the treatment of silk, Soluble. Moore Oil Company. 127,855; renewed Dec. 9, 1939.
Perfumes and toilet waters. Andrew Jergens Company. 127,424; renewed Nov. 11, 1939.
Powders, Antiseptic. J. S. Tyree, Chemist, Inc. 127,796; renewed Dec. 2, 1939.
Preparation for the treatment of certain named diseases. Omega Chemical Company. 127,775; renewed Dec. 2, 1939.
Remedy to relieve constipation, etc. M. F. Schlesinger. 127,248; renewed Oct. 28, 1939.
Salve, Antiseptic healing. Paris Medicine Company. 126,885; renewed Oct. 7, 1939.
Tooth-paste. Iodent Chemical Company. 127,621; renewed Nov. 18, 1939.

CLASS 8

Boxes and trays for tobacco and cigarettes, etc., Ornamental. Kensington, Incorporated. 368,961; July 11; Serial No. 374,198; published May 2, 1939.
Pipes, Smoking. M. Linkman & Company. 369,094; July 11.

CLASS 12

Acoustical sheet material. Johns-Manville Corporation. 369,060; July 11; Serial No. 416,423; published May 2, 1939.
Asphalt, Emulsified. Asphalt Process Corporation. 369,070; July 11; Serial No. 416,638; published May 2, 1939.
Board and blocks, asbestos siding, etc., Sound absorbing. Insulite Company. 369,022; July 11; Serial No. 415,392; published Apr. 25, 1939.
Board blocks, Fiber composition. Insulite Company. 369,007; July 11; Serial No. 414,320; published Apr. 25, 1939.
Board, Coated fiber. Insulite Company. 369,013; July 11; Serial No. 414,809; published Apr. 25, 1939.
Cements and waterproofing material, Bituminous. Vereinigte Deutsche Metallwerke Aktiengesellschaft. 369,008; July 11; Serial No. 414,544; published Apr. 25, 1939.
Insulating sheet materials and corrosion resistant coverings, Thermal. N. V. Hollandsche Draad- en Kabelfabriek. 369,006; July 11; Serial No. 414,305; published May 2, 1939.
Lumber, woodwork, paneling, etc. West Coast Lumbermen's Association. 368,989–90; July 11; Serial Nos. 412,479–80; published Apr. 25, 1939.
Roofing material. Flintkote Company. 125,805; renewed June 17, 1939.
Tiles, Colored glass. Semon Bache & Company. 368,971; July 11; Serial No. 403,094; published Apr. 25, 1939.
Tile, metal partitions. Metal. Allied Construction Co. 369,015; July 11; Serial No. 415,098; published Apr. 25, 1939.
Veneer product, Wood. J. H. Smith Veneers, Inc. 369,090; July 11.

CLASS 13

Staples, Machine. Parrot Speed Fastener Corporation. 368,988; July 11; Serial No. 412,080; published May 2, 1939.
Warmers, covers for food warmers, and top plates therefor, Food. Duke Manufacturing Co. 369,025; July 11; Serial No. 415,587; published May 2, 1939.

CLASS 14

Zinc in slabs or pigs. United States Smelting Refining and Mining Company. 369,076; July 11; Serial No. 416,976; published May 2, 1939.

CLASS 16

Linseed-oil. Red Wing Linseed Oil Company. 126,755; renewed Sept. 30, 1939.
Paint, House. Aluminum Company of America. 369,012; July 11; Serial No. 414,764; published May 2, 1939.
Paint, varnish, and lacquer softener. L. R. Timmons. 369,068; July 11; Serial No. 416,621; published May 2, 1939.
Paints. M. F. Moran. 368,983; July 11; Serial No. 410,842; published May 2, 1939.
Paints and painters' materials. Carpenter-Morton Company. 126,649; renewed Sept. 30, 1939.
Wax, Liquid. Bennett Incorporated. 369,024; July 11; Serial No. 415,539; published Apr. 11, 1939.
Wax preparations. Congoleum-Nairn Inc. 369,035; July 11; Serial No. 415,877; published May 2, 1939.

CLASS 17

Cigarettes. G. C. Dawson. 369,028; July 11; Serial No. 415,685; published May 2, 1939.
Cigars and smoking tobacco, chewing tobacco, etc. London House, Ltd. 369,085; July 11.
Tobacco, Smoking. S. Shubs. 369,037; July 11; Serial No. 415,919; published May 2, 1939.

CLASS 19

Bicycles. Firestone Tire & Rubber Company. 368,962; July 11; Serial No. 381,804; published Oct. 5, 1937.
Trailers. J. W. Hart. 368,995; July 11; Serial No. 413,208; published May 2, 1939.

CLASS 21

Insulators, Electrical. Westinghouse Electric & Manufacturing Company. 126,588; renewed Sept. 16, 1939.
Lamps, Electric headlight and signal. Mars Signal Light Co. 368,964; July 11; Serial No. 385,052; published May 2, 1939.
Photosensitive electricity generating devices. F. Lowenberg. 369,084; July 11.

CLASS 22

Bowling alley ball returns and parts thereof. Brunswick-Balke-Collender Company. 369,101; July 11.
Golf bags. Southern Saddlery Company. 369,038; July 11; Serial No. 415,920; published May 2, 1939.

CLASS 23

Duplicating-rolls for duplicating-machines. Duplicator Manufacturing Company. 127,223–4; renewed Oct. 28, 1939.
Vending machines and coin devices therefor. Malkin-Illion Corporation. 369,067; July 11; Serial No. 416,613; published May 2, 1939.

CLASS 27

Watch movements. P. S. Bartlett. 16,874; re-renewed July 30, 1939.

CLASS 28

Flatware and cutlery, Silver plated. Oneida Ltd. 369,063; July 11; Serial No. 416,579; published Apr. 25, 1939.
Lockets, jewel boxes, cuff links, etc. C. Scheuer Company. 369,041; July 11; Serial No. 415,962; published May 2, 1939.
Pearls. S. E. Weinreich. 369,042; July 11; Serial No. 416,005; published Apr. 25, 1939.

CLASS 31

Refrigerated locker units. W. Mc. Baird. 369,023; July 11; Serial No. 415,492; published May 2, 1939.

CLASS 34

Baffle for boilers, Draft regulating. Fitzgibbons Boiler Company. 368,998; July 11; Serial No. 413,442; published May 2, 1939.
Boilers. Fitzgibbons Boiler Company. 369,000–1; July 11; Serial Nos. 413,501–2; published May 2, 1939.
Boilers. Fitzgibbons Boiler Company. 369,002; July 11; Serial No. 413,504; published May 2, 1939.
Burners, Fluid fuel. Weatherall Engineers Incorporated. 368,980; July 11; Serial No. 409,600; published May 2, 1939.
Damper for boilers. Fitzgibbons Boiler Company. 368,997; July 11; Serial No. 413,440; published May 2, 1939.
Fans and blowers, heating, ventilating, and cooling and air conditioning units. Trade-Wind Motorfans, Inc. 368,986–7; July 11; Serial Nos. 412,013–14; published May 2, 1939.
Furnace units, Oil and gas burning. Century Engineering Corporation. 369,020; July 11; Serial No. 415,323; published May 2, 1939.
Reflectors and shades, Lighting. Shapiro & Aronson, Inc. 369,045; July 11; Serial No. 416,116; published May 2, 1939.
Stoves, ranges, heaters, etc., Gas. Folsom Company. 369,053; July 11; Serial No. 416,253; published May 2, 1939.

CLASS 35

Belting, Leather. Graton & Knight Manufacturing Company. 127,615; renewed Nov. 18, 1939.
Packing. Beldam Packing & Rubber Company Limited. 126,128; renewed July 29, 1939.
Patches for tires and tubes and rubber solvent used therewith. H. E. Engert. 369,077; July 11; Serial No. 417,206; published May 2, 1939.
Piston rings. Standard Oil Company of California. 369,080; July 11; Serial No. 417,510; published May 2, 1939.

CLASS 36

Accordions, Piano. Carl Fischer Musical Instrument Co. Inc. 369,091; July 11.

CLASS 37

Binders, Loose-leaf. B. A. Heimbinder. 369,088; July 11.
Copyholders and the stands or supports thereof. Art Metal Construction Company. 369,087; July 11.
Papers, Wrapping, waxed, and tissue. American Tissue Mills. 369,081; July 11.
Papers, Writing. St. Regis Paper Company. 368,981; July 11; Serial No. 409,630; published May 2, 1939.
Paneteries and papers. International Brotherhood of Paper Makers. 369,019; July 11; Serial No. 415,292; published May 2, 1939.
Pencils, blank forms, blank books, etc. W. Morrow & Company, Inc. 368,985; July 11; Serial No. 411,304; published May 2, 1939.
Pens, pen holders, mechanical pencils, etc. Esterbrook Steel Pen Manufacturing Company. 369,047; July 11; Serial No. 416,184; published Apr. 25, 1939.
Tissue sheets and paper towels. Federated Mills, Inc. 368,969; July 11; Serial No. 402,296; published May 2, 1939.

CLASS 38

Books and magazines. Personal Book Shop, Inc. 369,055; July 11; Serial No. 416,336; published May 2, 1939.
Bulletin, Monthly. Occupational Index, Inc. 369,039; July 11; Serial No. 415,931; published May 2, 1939.
Cards, Souvenir post. F. C. Smith. 369,033; July 11; Serial No. 415,864; published Apr. 25, 1939.
Drawings, Comic. NEA Service, Inc. 369,050; July 11; Serial No. 416,200; published May 2, 1939.
Drawings, Comic. NEA Service, Inc. 369,051–2; July 11; Serial Nos. 416,201–2; published Apr. 25, 1939.
Drawings for textile designs, Artistic. E. T. Leigh. 369,048; July 11; Serial No. 416,194; published Apr. 25, 1939.
Feature section in publications. M. K. Alexander. 369,021; July 11; Serial No. 415,369; published May 2, 1939.
House organ. Allegheny Ludlum Steel Corporation. 369,074; July 11; Serial No. 416,937; published May 2, 1939.
Journal for the medical profession, Illustrated. Equity Press, Inc. 369,040; July 11; Serial No. 415,939; published May 2, 1939.
Leaflets relating to the subject of salesmanship. C. Bennett. 368,984; July 11; Serial No. 411,113; published Apr. 25, 1939.
Magazine. Deisel Engines, Inc. 369,059; July 11; Serial No. 416,406; published Apr. 25, 1939.
News column. A. W. "Bill" Wells. 369,062; July 11; Serial No. 416,493; published May 2, 1939.
News feature or column. J. A. Duncan. 368,999; July 11; Serial No. 413,471; published Apr. 25, 1939.
Newspaper. E. M. Patterson. 369,046; July 11; Serial No. 416,158; published Apr. 25, 1939.
Newspaper section. New York Evening Journal Inc. 369,044; July 11; Serial No. 416,109; published May 2, 1939.
Pamphlets, Advertising. Checkmaster Plan, Inc. 369,011; July 11; Serial No. 414,686; published May 2, 1939.
Periodical, Trade. Perfect Circle Company. 369,071; July 11; Serial No. 416,741; published May 2, 1939.
Publication. American Association of Port Authorities. 369,043; July 11; Serial No. 416,009; published Apr. 25, 1939.
Publication. Financial Supervision, Incorporated. 368,996; July 11; Serial No. 413,265; published May 2, 1939.
Publication. Hoffman-Harris, Inc. 369,026; July 11; Serial No. 415,648; published May 2, 1939.
Publication. J. W. Wilcox & Follett Co. 368,975; July 11; Serial No. 405,861; published May 2, 1939.
Scripts. Colgate-Palmolive-Peet Company. 369,032; July 11; Serial No. 415,835; published May 2, 1939.

CLASS 39

Garment. Schuylkill Silk Mills. 127,784; renewed Dec. 2, 1939.
Hats, Children's. A. Mayer. 126,879; renewed Oct. 7, 1939.
Shirts, etc., Gents' dress, negligée, and work. J. F. Haig & Co. Ltd. 127,409; renewed Nov. 11, 1939.
Shoes, Leather. S. J. Brouwer Shoe Company. 127,264; renewed Nov. 4, 1939.
Underclothing, garments, embroideries, laces, etc. Stapley & Smith. 17,012–13; re-renewed Sept. 10, 1939.

CLASS 40

Linens, textile material and novelty goods, Household and fancy. Vogue Needlecraft Company. 369,096; July 11.
Underclothing, garments, embroideries, laces, etc. Stapley & Smith. 17,012–13; re-renewed Sept. 10, 1939.

CLASS 42

Blankets and piece goods. W. S. Libbey Company. 369,066; July 11; Serial No. 416,612; published May 2, 1939.
Corduroy fabrics. Crompton Company. 369,061; July 11; Serial No. 416,457; published May 2, 1939.
Corduroy with a velvet finish. Eisenberg & Weinstein, Inc. 369,004; July 11; Serial No. 413,984; published Feb. 21, 1939.
Curtains, drapes, spreads, etc. M. Druck. 369,016; July 11; Serial No. 415,109; published May 2, 1939.
Fabrics, Textile. Edwin & Louis Bry, Inc. 369,058; July 11; Serial No. 416,399; published May 2, 1939.
Piece goods. O'Hara, Levy & Mahon Inc. 368,972; July 11; Serial No. 403,556; published May 2, 1939.
Rugs, Grass. Waite Grass Carpet Company. 126,225; renewed July 29, 1939.
Underclothing, garments, embroideries, laces, etc. Stapley & Smith. 17,012–13; re-renewed Sept. 10, 1939.

CLASS 44

Bandages, Adhesive. Parke, Davis & Company. 369,102; July 11.
Driers, Electric hair. Martin Brothers Electric Co. 368,973; July 11; Serial No. 404,317; published May 2, 1939.

CLASS 45

Beverages and flavoring syrups and extracts. Hartung Brothers. 369,086; July 11.
Beverages and for the concentrates thereof. Grandpa Brands Company. 369,069; July 11; Serial No. 416,631; published May 2, 1939.
Beverages and syrups for the manufacture of the same. H. C. Breimeyer. 127,814; renewed Dec. 9, 1939.
Canned citrus juices. H. E. Butt Grocery Company. 369,075; July 11; Serial No. 416,946; published May 2, 1939.
Soda, cream soda, grape soda, etc., Orange dry. Warwick Club Gingerale Co. 369,065; July 11; Serial No. 416,590; published May 2, 1939.

CLASS 46

Butter. J. J. Mullins & Co. 369,049; July 11; Serial No. 416,199; published May 2, 1939.
Butter, Ice cream, and cottage cheese. Jessen Creamery Company. 369,095; July 11.
Candy. De Met's, Inc. 369,079; July 11; Serial No. 417,361; published May 2, 1939.
Canned beans. Burnham & Morrill Company. 368,991; July 11; Serial No. 412,590; published May 2, 1939.
Canned fish, fruit, and vegetables. West Coast Packing Co. 126,370; renewed Aug. 19, 1939.
Canned fruits and vegetables. W. A. Bauer Co. 368,968; July 11; Serial No. 400,678; published May 2, 1939.
Canned fruits, vegetables, fruit juices, etc. Nash-Finch Company. 369,014; July 11; Serial No. 414,883; published May 2, 1939.
Canned grapefruit, peas, tomato juice, etc. Florida Fruit Canners, Inc. 368,967; July 11; Serial No. 398,351; published May 2, 1939.
Canned sardines and salmon, etc. Benson Fish Company. 369,003; July 11; Serial No. 413,615; published May 2, 1939.
Canned soups and vegetables. Hanover Food Products Co. 369,017; July 11; Serial No. 415,276; published May 2, 1939.
Cocoa and coffee. N. V. Cultuur Maatschappy Siloewok Sawangan. 368,993; July 11; Serial No. 412,658; published May 2, 1939.
Coffee. Albert Ehlers, Inc. 369,036; July 11; Serial No. 415,886; published May 2, 1939.
Coffee, tea, and spices. F. Lyman. 369,010; July 11; Serial No. 414,572; published May 2, 1939.
Feeds. Shawnee Milling Company. 369,056; July 11; Serial No. 416,343; published May 2, 1939.
Flavorings for ice creams. Welch Fruit Products Co. 368,978; July 11; Serial No. 408,142; published May 2, 1939.
Flour, Wheat. Midland Flour Milling Company. 368,974; July 11; Serial No. 405,562; published May 2, 1939.
Food, Dog. Bonds-17 Dog Food Company. 369,034; July 11; Serial No. 415,872; published May 2, 1939.
Food for infant feeding. S. M. A. Corporation. 369,064; July 11; Serial No. 416,585; published May 2, 1939.
Foods, Animal and stock. Red Wing Linseed Oil Company. 127,482; renewed Nov. 11, 1939.
Fruit, Fresh citrus. McDermont Fruit Company. 368,982; July 11; Serial No. 410,471; published Nov. 15, 1938.
Fruit, Fresh citrus. San Fernando Heights Lemon Association. 369,078; July 11; Serial No. 417,346; published May 2, 1939.
Fruits and vegetables, Fresh deciduous. J. W. Podmore & Sons. 369,093; July 11.
Fruits, Fresh citrus. Oxnard Citrus Ass'n. 127,469–70; renewed Nov. 11, 1939.
Honey. R. D. Bradshaw and Sons. 369,099; July 11.
Marshmallow. Three Millers Inc. 369,097; July 11.
Nuts, Salted. Electricooker, Inc. 369,054; July 11; Serial No. 416,319; published May 2, 1939.
Oleomargarine. Churngold Corporation. 369,031; July 11; Serial No. 415,854; published May 2, 1939.
Salad dressing. G. Herbener. 369,092; July 11.
Sausage and canned ham, Packaged. Trump Products Corporation. 368,979; July 11; Serial No. 408,982; published May 2, 1939.

CLASS 48

Beer and ale. Greenway Brewery Co. 368,994; July 11; Serial No. 412,969; published May 2, 1939.

CLASS 49

Whisky. Duncan Weston & Company Limited. 369,103; July 11.

CLASS 50

Bee smokers. A. G. Woodman Company. 369,005; July 11; Serial No. 414,090; published May 2, 1939.
Bottle closures. Anchor Cap & Closure Corporation. 368,963; July 11; Serial No. 382,081; published May 2, 1939.
Devices for displaying in co-relation samples or representatives of home furnishings. J. R. Connor. 369,018; July 11; Serial No. 415,282; published May 2, 1939.
Engravings for printing purposes, Wood. Sander Engraving Co. 369,100; July 11.
Matrix or dry mat. W. J. Sullivan. 368,965–6; July 11; Serial Nos. 394,474–5; published Jan. 4, 1938.
Printing mats, electrotypes, stereotypes, etc. W. E. Cline. 368,970; July 11; Serial No. 402,678; published May 2, 1939.

LIST OF LABELS

Alacta. For a Homogenized, Spray-Dried Mixture of Approximately Equal Parts of Skim Milk and Whole Milk. Mead Johnson & Company. 53,248; July 11.
Arkady. For Dough Improver. Standard Brands Incorporated. 53,260; July 11.
Beech-Nut Fruited Oat Cookies. For Fruited Oat Cookies. Beech-Nut Packing Company. 53,237; July 11.
Blue Bonnet. For Vitaminized Oleomargarine. Standard Nut Margarine Company. 53,261; July 11.
Breast O' Chicken. For Canned Tuna Fish. Westgate Sea Products Co. 53,263; July 11.
Brer Rabbit. For Corn and Georgia Cane Syrup. Penick & Ford, Ltd. Incorporated. 53,255; July 11.
Buffalo Brand. For Apples. G. F. Seiberling, J. T. Schantz, and N. P. Brenner. 53,257; July 11.
Cinderella Slippers—Boots for Beauty. For Slippers. F. A. Sampson. 53,256; July 11.
Comstock. For Sliced Apples. Comstock Canning Corporation. 53,240; July 11.
Comstock. For Whole Beets. Comstock Canning Corporation. 53,239; July 11.
Fermaloid. For Dough Improver. Standard Brands Incorporated. 53,259; July 11.
Golden Gate International Exposition Package. For Chocolates, Candy, and Nuts. Awful Fresh MacFarlane. 53,236; July 11.
Kant-Fog Glass Cleaner. For a Glass Cleaner. H. B. Cowan. 53,241; July 11.
Liane Quality-Tested Shampoo. For a Shampoo. Liane Incorporated. 53,250; July 11.
Mead's Mineral Oil with Malt Syrup. For Homogenized Mixture of White Mineral Oil and Malt Syrup, with Emulsifying Agents, and 2% Alcohol by Volume. Mead Johnson & Company. 53,246; July 11.
Mead's Powdered Lactic Acid with Dextri-Maltose No. 1. For Product Containing Whole Milk, Acidified with Lactic Acid, and Added Maltose and Dextrins, Homogenized and Spray-Dried. Mead Johnson & Company. 53,245; July 11.
Munchee Grain Buds. For a Health Food. Mannly Corporation. 53,254; July 11.
Olac. For a Homogenized, Spray-Dried Mixture of Skim Milk, Maltose and Dextrins, Virgin Olive Oil, Calcium Caseinate and Halibut Liver Oil. Mead Johnson & Company. 53,249; July 11.
Pantry Package. For Wrappers for Loaves of Bread. Braun Baking Company. 53,238; July 11.
Prolarmon. For a Liquid Used as a Thoroughly Saturated Wet Dressing. Maggot Products Company. 53,253; July 11.
R. H. Macy & Co., Inc. For Shoes. A. Staib. 53,258; July 11.
Salvus Sutures. For Sutures. Davis & Pitann Ltd. 53,242; July 11.
Schmidt's Old Home Pantry Package White Bread. For Bread. W. E. Long Co. 53,252; July 11.
Sobee. For a Mixture of Soy Bean Flour, Virgin Olive Oil, Arrowroot Starch, Maltose and Dextrins, Calcium Phosphate Dibasic and Sodium Chloride, which has Been Homogenized, Cooked, Dried and Powdered. Mead Johnson & Company. 53,247; July 11.
Summer Delight Orange Flavored Syrup. For an Orange Flavored Syrup. Little Brown Jug Products Company. 53,251; July 11.
The Can With the Opening Date. For Cans. A. H. Esty. 53,243–4; July 11.
Townsend's Red Seal Brand. For Wine. W. L. Townsend. 53,262; July 11.

LIST OF PRINTS

Accuracy Controller. For Calculating Machines. Marchant Calculating Machine Company. 17,490; July 11.
Burnenze. For an External Emollient for Burns and Sunburn. United Distributors, Incorporated. 17,491; July 11.
For Hair That Has Been Abused. For Oil Shampoo. Admiracion Laboratories, Inc. 17,486; July 11.
Road Runner Racer. For Gasoline. Danciger Oil Refineries, Inc. 17,487; July 11.
The Clothes You Buy at Kermans. For Women's Coats. Suits, Dresses, Blouses, Furs and Millinery. Kerman Stores Company. 17,489; July 11.
Vogue Tyre. For Automobile Tires. Vogue Rubber Company. 17,492; July 11.
We Blew Corn Into Enticing "Bubbles" . . . To Give You Something Entirely New For Breakfast! For Cereal Food. General Mills, Inc. 17,488; July 11.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Ajouelo, Davis J., Atlanta, and J. L. Moore, deceased, by S. A. Moore, Decatur, executrix, assignors to The Auto-Soler Company, Atlanta, Ga. Machine for making and inserting metallic fasteners. Re. 21,141; July 11.
Auto-Soler Company, The. (See Ajouelo, D. J., and Moore, assignors.)
Clemons, Frederick E., Indianapolis, Ind. Independent wheel suspension. Re. 21,142; July 11.
Davis, Robert F., Washington, D. C., assignor, by mesne assignments, to The Edward Katzinger Company. Towel rack. Re. 21,143; July 11.
Dodge, Wesley W., Oakland, Calif., assignor to Paterson Pacific Parchment Co. Refrigerating lettuce and the like. Re. 21,144; July 11.
Goble Disc Works. (See Goble, William E., assignor.)
Goble, William E., Fowler, Calif, assignor of one-half to Goble Disc Works. Bearing for earth working tools. Re. 21,145; July 11.
Hopkins, Robert C., Rockville Centre, N. Y. Hosiery dispensing machine. Des. Re. 21,146; July 11.
Katzinger, Edward, Company, The. (See Davis, Robert F., assignor.)
Kiesel, William F., Jr., Hollidaysburg, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Refrigerator car and the like. Re. 21,147; July 11.
Moore, James L. (See Ajouelo, D. J., and Moore.)
Moore, Susan A., executrix. (See Ajouelo, D. J., and Moore.)
Mylius, Walter G., Summit, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Meter Base. Re. 21,148; July 11.
Paterson Pacific Parchment Co. (See Dodge, Wesley W., assignor.)
Pennsylvania Railroad Company, The. (See Kiesel, William F., Jr., assignor.)
Tönnies, Hans F., Hamburg-Grossflottbek, Germany. Exposure apparatus for cameras. Re. 21,149; July 11.
Von Lepel, Egbert, New York, N. Y. Source of light and operating the same. Re. 21,150; July 11.
Westinghouse Electric & Manufacturing Company. (See Mylius, Walter G., assignor.)

LIST OF DESIGN PATENTEES

Adler, Charles, New York, N. Y. Brooch pin or similar article. 115,679; July 11.
Allen, Jack G., assignor to F. H. Noble & Co., Chicago, Ill. Display box. 115,602; July 11.
Allen, Jack G., assignor to F. H. Noble & Co., Chicago, Ill. Display box. 115,603; July 11.
American Hard Rubber Company. (See Carson, Oswald B., assignor.)
Barbee, Cecil R. (See Ford, G. F., Barbee, and Squires.)
Baritz, Sidney, Great Neck, N. Y. Button. 115,604; July 11.
Baritz, Sidney, Great Neck, N. Y. Button trimming for wearing apparel. 115,605; July 11.
Becker, Aloysius W., assignor to Dearborn Stove Company, Chicago, Ill. Space heater. 115,699; July 11.
Beckett, Reginald W., Elyria, Ohio. Oil burner. 115,640; July 11.
Beckett, Reginald W., Elyria, Ohio. Combined blower housing and pedestal for oil burners or the like. 115,680; July 11.
Beckett, Reginald W., Elyria, Ohio. Pedestal for oil burners or the like. 115,681; July 11.
Beckett, Reginald W., Elyria, Ohio. Air tube for oil burners or the like. 115,682; July 11.
Bemis, Kenneth E., Oakland, Calif. Building structure. 115,683; July 11.
Bernstein, Maurice J., Brighton, assignor to Panther-Panco Rubber Co. Inc., Chelsea, Mass. Shoe sole. 115,606; July 11.
Bernstein, Maurice J., Brighton, assignor to Panther-Panco Rubber Co. Inc., Chelsea, Mass. Shoe heel. 115,607; July 11.
Beyer, Charles E., Rosamond, Calif. Heater. 115,641; July 11.
Binon, Georges, New York, N. Y., assignor to The Food Dispenser Company. Food dispenser. 115,608; July 11.
Birmingham, Lillie A., San Francisco, Calif. Spoon. 115,609; July 11.
Blossom, Frederick M., Peoria, Ill. Belt. 115,700; July 11.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet or similar article. 115,642; July 11.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet or similar article. 115,643; July 11.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Plate or similar article. 115,665; July 11.
Bottome, Edgar M., assignor to Fostoria Glass Company, Moundsville, W. Va. Plate or similar article. 115,666; July 11.
Bovay, Norman E., Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y. Shoe. 115,610; July 11.
Brown, Edna S., St. Louis, Mo. Dress. 115,684; July 11.
Brownell, Earl C., Portland, Ore. Sign. 115,644; July 11.
Bronstien, Edward L., St. Paul, Minn. Bedspring. 115,701; July 11.
Bronstien, Edward L., St. Paul, Minn. Bedspring. 115,702; July 11.
Bronstien, Edward L., St. Paul, Minn. Angle iron. 115,703; July 11.
Brunswick-Balke-Collender Company, The. (See Deskey, Donald, assignor.)
Bry, Louis, New York, N. Y. Textile fabric. 115,723; July 11.
Bry, Louis, New York, N. Y. Textile fabric. 115,724; July 11.
Bugg, Kenly C., Farmington, Mo. Padlock. 115,645; July 11.
Butler, Stewart L. (See Eickmeyer, E. E., Butler, and Rothermel.)
Case, W. A., & Son Manufacturing Company. (See Kohlmeyer, George W., assignor.)
Carson, Oswald B., Scarsdale, assignor to American Hard Rubber Company, New York, N. Y. Automotive steering wheel. 115,685; July 11.
Carson, Oswald B., Scarsdale, assignor to American Hard Rubber Company, New York, N. Y. Automotive steering wheel. 115,686; July 11.
Cincinnati Sheet Metal & Roofing Company, The. (See Olden, Harry L., assignor.)
Consolidated Brass Company. (See Mosack, Clarence C., assignor.)
Cornejo, Victor. (See Pavelka, J., Jr., and Cornejo.)
Cox, Samuel F., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Swinging glass gate. 115,611; July 11.
Cox, Samuel F., Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company. Swinging glass door. 115,612; July 11.
Craighead, John R., Denver, Colo. Scarf holder. 115,613; July 11.
Crouse-Hinds Company. (See Olley, Raymond H., assignor.)
Curtiss, George E., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Outside door hande or similar article for an automotive vehicle. 115,667; July 11.
Davis, Joseph, Arlington, N. J. Combined toilet comb and brush. 115,687; July 11.
Davis, Julius, New York, N. Y. Quilt. 115,688; July 11.
Dayton Pump & Mfg. Company, The. (See Eickmeyer, E. E., Butler, and Rothermel, assignors.)
Dean, Arthur F., Winnetka, assignor to Stewart-Warner Corporation, Chicago, Ill. Lubricant dispensing apparatus. 115,646; July 11.
Dearborn Stove Company. (See Becker, Aloysius W., assignor.)
Deskey, Donald, New York, N. Y., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill. Billiard table. 115,647; July 11.
Dorfman, Claire, Brooklyn, N. Y. Cosmetic display stand. 115,689; July 11.
Ebling, Paul, assignor to The Showerway Company, Minneapolis, Minn. Lavatory unit. 115,614; July 11.
Eickmeyer, Earle E., S. L. Butler, and H. J. Rothermel, assignors to The Dayton Pump & Mfg. Company, Dayton, Ohio. Water pump unit. 115,648; July 11.
Emmer, Mike H., Los Angeles, Calif. Coffee bottle supporting plate. 115,649; July 11.

Ernst, Walter, Mt. Gilead, and H. Van Doren, Toledo, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del. Press. 115,650; July 11.
Fageol, Rollie B., Beverly Hills, Calif. Toy vehicle. 115,668; July 11.
Farrah, William Y., Kansas City, Mo. Wall shelf. 115,615; July 11.
Fassler, Adolph, Pelham, N. Y., assignor to H. A. Lawson, Signal Mountain, Tenn. Bedspread. 115,706; July 11.
Fassler, Adolph, Pelham, N. Y., assignor to H. A. Lawson, Signal Mountain, Tenn. Bedspread. 115,707; July 11.
Fibreboard Products Inc. (See Ford, G. F., Barbee, and Squires, assignors.)
Fink-Roselieve Co. Inc. (See Naylor, William E., assignor.)
Fisch, Louis B., Brooklyn, N. Y. Textile fabric. 115,718; July 11.
Fitchhorn, Elver J., Delaware, Ohio. Musical instrument of a flute-like nature. 115,616; July 11.
Food Dispenser Company, The. (See Binon, Georges, assignor.)
Ford, George F., and C. R. Barbee, Beverly Hills, and P. H. Squires, Lynwood, assignors to Fibreboard Products Inc., San Francisco, Calif. Bottle carrier. 115,651; July 11.
Forman, Sol., New York, N. Y. Serving platter or similar article. 115,617; July 11.
Fostoria Glass Company. (See Bottome, Edgar M., assignor.)
Fostoria Glass Company. (See Yutzey, Marvin G., assignor.)
Geuting, Anthony H., Philadelphia, Pa. Shoe. 115,618; July 11.
Gill Glass & Fixture Company. (See Orth, Richard, assignor.)
Goodwin, William A., Lincoln, Nebr. Milk bottle carrier. 115,619; July 11.
Goulet, Robert W., Providence, R. I., assignor to Warren Telechron Company. Clock case. 115,620; July 11.
H & W Company, The. (See Kaufmann, George A., assignor.)
Hammonds, Lessie, Fort Worth, Tex. Hairpin holder. 115,710; July 11.
Hazel-Atlas Glass Company. (See Hendrickson, Jack L., assignor.)
Hendrickson, Jack L., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va. Jar. 115,652; July 11.
Hill, Chauncey V., assignor to C. V. Hill & Company, Incorporated, Trenton, N. J. Combined storage and display case or the like. 115,621; July 11.
Hill, C. V., & Company. (See Hill, Chauncey V., assignor.)
Holden, Edith S., New York, N. Y. Doll. 115,669; July 11.
Hollindale, Wilfred H., assignor to Ternstedt Manufacturing Company, Detroit, Mich. Outside door handle or similar article for an automotive vehicle. 115,670; July 11.
Hydraulic Development Corporation, The. (See Ernst, W., and Van Doren, assignors.)
Irwin, Maude L., Alameda, Calif. Washboard. 115,711; July 11.
Japan Merchandise Company of Honolulu. (See Toriumi, Albert Y., assignor.)
Jewett, John H., Detroit, Mich. Picture frame. 115,622; July 11.
Johnson, Lula A., New York, N. Y. Hat. 115,704; July 11.
Joseph, Peter, New York, N. Y. Comfortable. 115,653; July 11.
Joseph, Peter, New York, N. Y. Comfortable. 115,654; July 11.
Joseph, Peter, New York, N. Y. Comfortable. 115,655; July 11.
Joseph, Peter, New York, N. Y. Comfortable. 115,671; July 11.
Kaak, Kurt., West Wyomissing, assignor to The Narrow-Fabric Company, West Reading, Pa. Elastic fabric. 115,713; July 11.
Kaak, Kurt., West Wyomissing, assignor to The Narrow-Fabric Company, West Reading, Pa. Elastic fabric. 115,714; July 11.
Kaak, Kurt., West Wyomissing, assignor to The Narrow-Fabric Company, West Reading, Pa. Elastic fabric. 115,715; July 11.
Kaak, Kurt., West Wyomissing, assignor to The Narrow-Fabric Company, West Reading, Pa. Elastic fabric. 115,716; July 11.
Kaufmann, George A., Essex Fells, assignor to The H & W Company, Inc., Newark, N. J. Brassière or similar article. 115,705; July 11.
Kent, Fay T., and J. Vandenberg, New York, N. Y.; said Vandenberg assignor to said Kent. Floor machine. 115,690; July 11.
Kersting, Albert H., deceased, by N. F. Kersting, Los Angeles, California, executrix. Spring sash balance housing. 115,712; July 11.
Kersting, Nelle F., executrix. (See Kersting, Albert H.)
Kidd, Harry M., El Paso, Tex. Combined electric switch plate attachment and calendar. 115,708; July 11.
Kimmel, George P., Brookeville, Md. Pair of semirim spectacles. 115,717; July 11.
Kohlmeyer, George W., assignor to W. A. Case & Son Manufacturing Company, Buffalo, N. Y. Lavatory. 115,623; July 11.
Lawrence, Edward M., Lancaster, Ohio. Bottle or similar article. 115,656; July 11.
Lawson, Harriette A. (See Fassler, Adolph, assignor.)
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 115,673; July 11.
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 115,674; July 11.
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 115,657; July 11.
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 115,672; July 11.
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 115,675; July.
Marcello, Pierre. (See Miller, H., and Marcello.)
Mayers, Lawrence S., assignor to L. & C. Mayers Company, New York, N. Y. Spoon or other article of flatware. 115,691; July 11.
Mayers, L. & C., Company. (See Mayers, Lawrence S., assignor.)
Mehlman, Joseph, Los Angeles, Calif. Safety paper. 115,692; July 11.
Miller, Harry, and P. Marcello, New York, N. Y. Buckle or similar article. 115,719; July 11.
Miller, Harry, and P. Marcello, New York, N. Y. Buckle or similar article. 115,720; July 11.
Montanye, Carlyle N., Baltimore, Md. Calendar stand. 115,721; July 11.
Montanye, Carlyle N., Baltimore, Md. Calendar stand. 115,624; July 11.
Mosack, Clarence C., assignor to Consolidated Brass Company, Detroit, Mich. Pop valve. 115,693; July 11.
Moulthrop, Lembert H., Bridgeport, Conn. Electric soldering device. 115,625; July 11.
Narrow-Fabric Company, The. (See Kaak, Kurt., assignor.)
National Silver Company. (See Schulgasser, Milton, assignor.)
Naylor, William E., assignor to Fink-Roselieve Co. Inc., New York, N. Y. Audible timer or similar article. 115,626; July 11.
Noble, F. H., & Co. (See Allen, Jack G., assignor.)
Nock, Harold E., assignor to Towle Manufacturing Company, Newburyport, Mass. Fork or analogous article. 115,627; July 11.
Olden, Harry L., assignor to The Cincinnati Sheet Metal & Roofing Company, Cincinnati, Ohio. Roofing sheet. 115,628; July 11.
Olley, Raymond H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Enclosed housing for electrical apparatus. 115,709; July 11.
Orth, Richard, assignor to Gill Glass & Fixture Company, Philadelphia, Pa. Torchiere shade. 115,658; July 11.
Ortwig, William F., Benton Harbor, Mich. Wall shelf. 115,629; July 11.
Panther-Panco Rubber Co. Inc. (See Bernstein, Maurice J., assignor.)
Pavelka, Joseph. (See Pavelka, J., Jr., and Cornejo, assignors.)
Pavelka, Joseph, Jr., and V. Cornejo, assignors to J. Pavelka, St. Louis, Mo. Casing for a bread toaster. 115,630; July 11.
Peck, Lee H., Chagrin Falls, assignor to Porcelain Products, Inc., Findlay, Ohio. Electrical wiring box or similar article. 115,726; July 11.
Pittsburgh Plate Glass Company. (See Cox, Samuel F., assignor.)
Porcelain Products, Inc. (See Peck, Lee H., assignor.)
Rice, William W., Chicago, Ill. Self-photographing apparatus. 115,631; July 11.
Rithner, Henry, Wellsburg, W. Va. Vigil candle tumbler or similar article. 115,659; July 11.
Robb, Frank B., Chagrin Falls, Ohio. Combination desk and play board. 115,660; July 11.
Rosenberg, George, New Rochelle, N. Y. Panel for a compact or similar article. 115,676; July 11.
Rothermel, Harry J. (See Eickmeyer, E. E., Butler, and Rothermel.)
Salomon, Irving, Chicago, Ill. Metal chair or similar article. 115,661; July 11.
Schulgasser, Milton, assignor to National Silver Company, New York, N. Y. Spoon or similar article. 115,632; July 11.
Sholtz, Leo, New York, N. Y. Shoe or similar article. 115,633; July 11.
Sholtz, Leo, New York, N. Y. Shoe or similar article. 115,634; July 11.
Sholtz, Leo, New York, N. Y. Shoe heel or similar article. 115,635; July 11.
Showerway Company, The. (See Ebling, Paul, assignor.)
Sperry, Paul A., New Haven, Conn. Shoe sole. 115,636; July 11.
Squires, Preston H. (See Ford, G. F., Barbee, and Squires.)
Staber, Eugenia, New York, N. Y. Dress. 115,694; July 11.
Steinberg, Frederick, Bronx, N. Y. Bird cage or similar article. 115,695; July 11.
Steinweg, Richard, New York, N. Y. Bedspread. 115,662; July 11.
Steinweg, Richard, New York, N. Y. Bedspread. 115,663; July 11.

Stewart-Warner Corporation. (See Dean, Arthur F., assignor.)
Stoll, Charles, New York, N. Y. Sofa or similar article. 115,664; July 11.
Ternstedt Manufacturing Company. (See Curtiss, George E., assignor.)
Ternstedt Manufacturing Company. (See Hollindale, Wilfred H., assignor.)
Thierfelder, Hans, Auerbach in Erzgebirge, Germany. Stocking. 115,722; July 11.
Toriumi, Albert Y., assignor to Japan Merchandise Company of Honolulu, Honolulu, Hawaii. Textile fabric. 115,725; July 11.
Towle Manufacturing Company. (See Nock, Harold E., assignor.)
Uhlir, Joseph F., Chicago, Ill. Combined pin cushion and spool holder. 115,696; July 11.
Ullmo, André A., Cleveland Heights, Ohio. Manicure lamp or similar article. 115,677; July 11.
United States Rubber Company. (See Bovay, Norman E., assignor.)
Vandenberg, John. (See Kent, F. T., and Vandenberg.)
Van Doren, Harold. (See Ernst, W., and Van Doren.)
Waite, Fred M., Saranac Lake, N. Y. Combined hair pomade and holder therefor. 115,678; July 11.
Warren Telechron Company. (See Goulet, Robert W., assignor.)
Warshauer, Benjamin, Stockton, Calif. Shoe. 115,697; July 11.
Wurlitzer, Rudolph, Company, The. (See Zaiser, William, assignor.)
Yutzey, Marvin G., assignor to Fostoria Glass Company, Moundsville, W. Va. Plate or similar article. 115,637; July 11.
Yutzey, Marvin G., assignor to Fostoria Glass Company, Moundsville, W. Va. Sugar bowl or similar article. 115,638; July 11.
Zaiser, William, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio. Piano. 115,639; July 11.
Zendman, Isaac, Jr., New York, N. Y. Lace. 115,698; July 11.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abel, Eugéne, Paris, France. Device for filling small containers. 2,165,604; July 11.
Acme Steel Company. (See MacChesney, Chester M., assignor.)
Acme Steel Company. (See MacChesney, C. M., and Wilson, assignors.)
Acme Steel Company. (See Stanius, Godfrey, assignor.)
Acme Steel Company. (See Wilson, Allen B., assignor.)
Adam, Robert, St. Louis, Mo. Floor and making the same. 2,165,437; July 11.
Addressograph-Multigraph Corporation. (See Brownsey, Horace P., assignor.)
Addressograph-Multigraph Corporation. (See Curtis, Franklin E., assignor.)
Airport Beacons, Inc. (See Bass, R. F., and Rives, assignors.)
Air-Way Electric Appliance Corporation. (See Riebel, Frederick, Jr., assignor.)
Air-Way Electric Appliance Corporation. (See Riebel, F., Jr., and Dow, assignors.)
Aklin, George H., and F. E. Altman, assignors to Eastman Kodak Company, Rochester, N. Y. Lens. 2,165,328; July 11.
Alaska Freezer Co., The. (See Prichard, Warren H., assignor.)
Alberga, Arnold E. and H. C., Hempstead, N. Y. Electric fuse and assembling same. 2,166,033; July 11.
Alberga, Henrie C. (See Alberga, Arnold E. and H. C.)
Alberg-Schönberg, Ernst. Berlin-Frohnau, assignor to Steatit-Magnesia Aktiengesellschaft, Berlin-Pankow, Germany. Electric insulator and making same. 2,165,819; July 11.
Albers, Milo H., Wichita, Kans. Panel board. 2,165,203; July 11.
Allen, Hugh E., assignor of one-half to A. G. McCaleb, Evanston, Ill. Base, or emulsifying vehicle, for flavoring agents. 2,165,828; July 11.
Allgemeine Elektricitate Gesellschaft. (See Tischner, H., Flurl, and Wessels, assignors.)
Allison, Raymond D., Los Angeles, Calif. Focusing device for microscopes. 2,166,034; July 11.
Allquist, John W., Rome, Ga., assignor to Tubize Chatillon Corporation, New York, N. Y. Extraction of substances from solutions. 2,165,438; July 11.
Alstrom, Ernest F., Jr., Cicero, Ill. Electrical cord connection. 2,165,952; July 11.
Altman, Fred E. (See Aklin, G. H., and Altman.)
American Cyanamid Company. (See Jones, L. C., Barnes, and Ham, assignors.)
American Laundry Machinery Company, The. (See Johnson, George W., assignor.)
American Locomotive Company. (See Peyton, Harry S., assignor.)
American Machine and Metals, Inc. (See Miller, Edward L., assignor.)
American Radiator & Standard Sanitary Corporation. (See Cornell, Edward S., Jr., assignor.)
American Rock Wool Corporation. (See Drill, Daniel C., assignor.)
American Rolling Mill Company, The. (See Hudson, E. B., and Burns, assignors.)
American Screw Company. (See Tomalis, Joseph J., assignor.)
American Seating Company. (See Nordmark, Henry P., assignor.)
American Seating Company. (See VerMeulen, J. M., and Bucher, assignors.)
American Telephone and Telegraph Company. (See Carter, Irving G., assignor.)
American Telephone and Telegraph Company. (See Green, E. I., and Tidd, assignors.)
Anderson, Roy J., assignor of one-fourth to L. E. Storey, Chicago, and one-fourth to J. Pabst, Evanston, Ill. Automatic bread toasting apparatus. 2,165,204; July 11.
Anderson, Samuel M., Sharon, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Air conditioning system utilizing refrigeration. 2,165,197; July 11.
Anderson, Samuel M., Sharon, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Air conditioning system. 2,165,829; July 11.
Anderson, Samuel M., Sharon, assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass. Air conditioning system for passenger vehicles. 2,165,830; July 11.
Ansul Chemical Company. (See Pope, A. C., and Pfleger, assignors.)
Anti-Abradants (Proprietary) Limited. (See Haarhoff, Daniel van der M., assignor.)

Apple, Albert G. (See Clyne, James B., assignor.)
Arentzen, Elnar M., assignor to Joy Manufacturing Company, Franklin, Pa. Side discharge loading mechanism. 2,165,205; July 11.
Arkin, Jules, Warsaw, Poland, and E. Mille, Paris, France. Apparatus for creating a layer of secondary air and steam above a hearth. 2,165,880; July 11.
Armour and Company. (See Harwood, J., and Pool, assignors.)
Armour and Company. (See Littlefield, Verne D., assignor.)
Armour & Company. (See Porsche, J. D., Pike and Gabby, assignors.)
Armstrong Cork Company. (See Baldwin, Alfred W., assignor.)
Arnold, Charles H., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 2,165,439; July 11.
Aronson, Louis V., Newark, N. J. Electric shaving device. 2,166,035; July 11.
Associated Electric Laboratories, Inc. (See Saunders, Norman H., assignor.)
Athol Manufacturing Company. (See Mitchell, Rowland B., assignor.)
Atwell, Harold V., White Plains, assignor to Process Management Company, Inc., New York, N. Y. Conversion of hydrocarbons. 2,165,526; July 11.
Aulsebrook, William J., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Air conditioning system. 2,165,831; July 11.
Autem, Fred, assignor to Textile Machine Works, Wyomissing, Pa. Counting device. 2,165,527; July 11.
Automatic Products Company. (See Whitman, Charles F., assignor.)
Automotive Products Company Limited. (See Parnell, Frank G., assignor.)
Babcock & Wilcox Company, The. (See Bailey, Ervin G., assignor.)
Babcock & Wilcox Company, The. (See Hardgrove, Ralph M., assignor.)
Bacon, Raymond F., Bronxville, N. Y., and I. Bencowitz, Gulf, Tex., assignors to Texas Gulf Sulphur Company, Houston, Tex. Pest control. 2,165,206; July 11.
Baer, Howard E., Garfield, assignor to Eclipse Aviation Corporation, East Orange, N. J. Automatic control means for deicing mechanisms for aircraft. 2,165,198; July 11.
Bailey, Ervin G., Easton, Pa., assignor, by mesne assignments, to The Babcock & Wilcox Company, Newark, N. J. Furnace. 2,165,207; July 11.
Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J. Fluid heat exchange apparatus. 2,165,208; July 11.
Baker & Company. (See Rosenblatt, Edgar F., assignor.)
Baker, George R., and G. D. Wilson, Peterborough, England. Rotary dough molding machine for biscuit doughs and the like. 2,165,528; July 11.
Baker, John C., Montclair, assignor to Novadel-Agene Corporation, Belleville, N. J. Beer drawing apparatus. 2,165,605; July 11.
Baldanza, Nicholas T., Passaic, N. J. Cable cutter. 2,165,209; July 11.
Baldwin, Alfred W., Pensacola, Fla., assignor by mesne assignments to Armstrong Cork Company, Manheim Township, Lancaster County, Pa. Apparatus for coating beveled edges. 2,165,210; July 11.
Ball, John B. (See Billiker, F. W., and Ball.)
Ballou, Frederick H. (See Mason, J. E., and Ballou.)
Barie, John A., West Waterloo Township, Black Hawk County, Iowa. Foldable chair. 2,165,529; July 11.
Barkon Tube Lighting Corporation. (See Killian, Thomas J., assignor.)
Barnes, Robert B. (See Jones, L. C., Barnes, and Ham.)
Barr and Stroud, Limited. (See French, James W., assignor.)
Barrett Equipment Company. (See Brenner, Hugo L., assignor.)
Barter, Harry L., assignor to Packard Motor Car Company, Detroit, Mich. Apparatus for lapping toothed elements. 2,165,329; July 11.
Baruch, Sydney N., New York, N. Y. Electron discharge device. 2,165,832; July 11.
Bass, Roland F., and W. L. Rives, assignors to Airport Beacons, Inc., Jacksonville, Fla. Airport beacon. 2,165,211; July 11.
Bassett, Rex E., Jr. (See Chamberlin, J. W., and Bassett.)
Batcheller, Hugh W., Newton, assignor to Standard Mfg. Co., Worcester, Mass. Switch for motor casing. 2,165,200; July 11.

Batcheller, Hugh W., Waltham, assignor to Standard Mfg. Co., Worcester, Mass. Rheostat switch. 2,165,199; July 11.
Bateman, Raymond F., Spirit River, Alberta, Canada. Holder for paper bags and the like. 2,165,606; July 11.
Batkin, Gregory, New York, N. Y. Toy. 2,165,914; July 11.
Batsel, Max C., Collingswood, N. J., assignor to Radio Corporation of America. Impulse recorder. 2,165,777; July 11.
Battelle Memorial Institute. (See Krause, D. E., and Lorig, assignors.)
Bauer, Emory L., assignor to Emory L. Bauer, Inc., Wilmington, Del. Oil burner. 2,165,212; July 11.
Bauer, Emory L., Inc. (See Bauer, Emory L., assignor.)
Baumgartner, Emile, Bienne, Switzerland. Change-speed gear, especially for bicycles. 2,165,201; July 11.
Baumgartner, John G., assignor to National Brush Company, Aurora, Ill. Wire cutting machine. 2,166,087; July 11.
Bays, George S., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Gas mapping. 2,165,440; July 11.
Bazeley, Arthur J., Shaker Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Train line connector. 2,165,330; July 11.
Beck, Adolf, and H. Bohner, Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Free-cutting aluminum alloys. 2,165,441; July 11.
Beers, George L., Collingswood, N. J., assignor to Radio Corporation of America. Television transmitter. 2,165,778; July 11.
Beggs, Joseph S. (See Tuttle, F., and Beggs.)
Bell, Dan H., Pittsburgh, Pa., assignor to Transit Research Corporation, New York, N. Y. Car floor construction. 2,165,691; July 11.
Bell & Howell Company, The. (See Howell, Albert S., assignor.)
Bell & Howell Company, The. (See Stechbart, Bruno, assignor.)
Bell Telephone Laboratories, Incorporated. (See Goodrum, Charles L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Goodrum, C. L., Hinrichsen, and Keller, assignors.)
Bell Telephone Laboratories, Incorporated. (See Hovland, Henry, assignor.)
Bell Telephone Laboratories, Incorporated. (See Kannenberg, Walter F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ring, D. H., and Wintringham, assignors.)
Bell Telephone Laboratories, Incorporated. (See Rosenc, Victor E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Skellett, Albert M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Stevenson, George H., assignor.)
Beloit Iron Works. (See Berry, Earl E., assignor.)
Beloit Iron Works. (See Hornbostel, Lloyd, assignor.)
Bencowitz, Isaac. (See Bacon, R. F., and Bencowitz.)
Bendix Aviation Corporation. (See Boettinger, William G., assignor.)
Bendix Home Appliances, Inc. (See Chamberlin, J. W., and Bassett, assignors.)
Bendix-Westinghouse Automotive Air Brake Company. (See Vorech, Stephen, assignor.)
Benish, Joseph S., Rhinelander, Wis. Floor scrubbing machine. 2,165,331; July 11.
Bennett, Le Roy, Webb City, Mo. Gauge. 2,165,881; July 11.
Berger, Emil J., Hatfield, and H. W. Matthews, Lansdale, assignors to Dexdale Hosiery Mills, Lansdowne, Pa. Display stand for stockings and the like. 2,165,915; July 11.
Berlin, Donovan R., Eggertsville, N. Y., assignor to Curtiss-Wright Corporation. Aircraft power plant. 2,165,443; July 11.
Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Automatic lubricant overbalance for table rolls. 2,165,442; July 11.
Bertoye, Louis, assignor to Societe Fonciere Industrielle et Commerciale, Paris, France. Signboard with removable letters. 2,166,036; July 11.
Bertram, Simon H., assignor, by mesne assignments, to N. V. Industrieele Exploitatie Maatschappij, The Hague, Netherlands. Fat-hardening process. 2,165,530; July 11.
Bertrand, Arthur B., Bokeelia, Fla., assignor to Burgess Battery Company, Chicago, Ill. Electric lantern. 2,165,531; July 11.
Best, Frank C., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,165,332; July 11.
Bezold, George L. (See Roosevelt, M. S., and Bezold.)
Billiker, Fredrick W., Milwaukee, Wis., and J. B. Ball, Chicago, Ill., assignors to Milwaukee Saw Trimmer Corporation, Milwaukee, Wis. Cutting machine. 2,165,953; July 11.
Binns, Frederick W., Quincy, Mass., assignor to Virginia Smelting Company, Portland, Maine. Bleaching mineral matter. 2,165,532; July 11.
Birch, Frank, Bolton, England. Anchorage for securing structural parts to concrete bases. 2,165,882; July 11.
Bird, William, Buffalo, and D. R. Clark, Amherst, N. Y. Device for time-controlling the opening of parachutes. 2,165,954; July 11.
Bischof, Frank, assignor to Dowst Manufacturing Company, Chicago, Ill. Toy. 2,165,833; July 11.
Bissell, Carl H., assignor to Crouse-Hinds Company, Syracuse, N. Y. Variable timing device. 2,165,444; July 11.
Bissell, Everett S., Irondequoit, assignor to Mixing Equipment Co., Inc., Rochester, N. Y. Bearing and sealing means. 2,165,916; July 11.
Björck, Yngvar, Kyrkviken, Sweden. Lock. 2,165,202; July 11.
Black, George E., Sewickley, assignor to H. H. Robertson Company, Pittsburgh, Pa. Method and apparatus for producing steel sheets. 2,165,917; July 11.
Black, George E., Sewickley, assignor to H. H. Robertson Company, Pittsburgh, Pa. Metal sheet piling apparatus. 2,165,918; July 11.
Blackhawk Mfg. Co. (See Mandl, Siegmund, assignor.)
Blackhawk Mfg. Co. (See Pfauser, Edward M., assignor.)
Blackinton, R., & Co. (See West, William E., assignor.)
Blackwell, Harold A., and W. L. Turner, Garston, England. Separating magnesium and like metals which sublime from their ores and compounds. 2,165,742; July 11.
Blain, Albert, Philadelphia, Pa., assignor to Radio Corporation of America. Cathode ray tube support. 2,165,779; July 11.
Blake Manufacturing Corporation. (See Wood, Orville T., assignor.)
Bland, Arthur H., Wembley, England. Amusement device. 2,165,743; July 11.
Blanton, William B., Merrick, N. Y., and R. B. White, Annandale, N. J., assignors to The Western Union Telegraph Company, New York, N. Y. Telegraph exchange system. 2,165,780; July 11.
Blau, Ludwig W., and L. Statham, Houston, Tex., assignors to Standard Oil Development Company. Electrical transient well logging. 2,165,213; July 11.
Blau, Ludwig W., and W. B. Lewis, Houston, Tex., assignors to Standard Oil Development Company. Geophysical prospecting with short electromagnetic waves. 2,165,214; July 11.
Blechschmidt, Hermann. (See Münnich, R., and Blechschmidt.)
Blinn, Edward A., Bellmore, N. Y. Coat and trousers hanger. 2,165,215; July 11.
Blomberg, Martin P., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Journal box end thrust arrangement. 2,165,645; July 11.
Blow, George, New York, N. Y. Recovering the values from ores. 2,165,607; July 11.
Bode, Harold E., Chicago, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Water-resistant, starch-containing product and method. 2,165,834; July 11.
Boese, Albert B., Jr., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Preparation of phenyl methyl pyrazyl phenyl methyl pyrazolone. 2,165,445; July 11.
Boetcker, William A., Flushing, N. Y., assignor to Talon, Inc. Garment. 2,166,088; July 11.
Boettinger, William G., Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind. Temperature compensating means for a measuring instrument. 2,165,744; July 11.
Bohner, Hans. (See Beck, A., and Bohner.)
Bolton, John W., & Sons, Inc. (See Stuck, Harold D., assignor.)
Booth, James H., Flint, assignor to General Motors Corporation, Detroit, Mich. Trailer towing spring suspension. 2,165,608; July 11.
Boots, William C., Attleboro, Mass., assignor to Guyot Brothers, Inc. Ornament construction. 2,165,216; July 11.
Boruff, Clair S. (See Willkie, H. F., and Boruff.)
Bosco, George B., Chicago, Ill. Screed chair. 2,165,333; July 11.
Bossi, Romeo A., Newton Center, Mass. Drill position indicator. 2,165,334; July 11.
Bower Roller Bearing Company. (See Ortegren, Herman A., assignor.)
Bowser, Wayland S., Crafton, Pa. Sorting device. 2,165,609; July 11.
Boyle, James F., Teaneck, N. J. Balloon and producing same. 2,165,610; July 11.
Bradley, William E. (See Jewel, P. W., and Bradley.)
Bradner, Donald B., assignor to The Hamilton Laboratories, Inc., Hamilton, Ohio. Preparing phenylmercuric compounds. 2,165,533; July 11.
Brady, Clare W., West Los Angeles, and R. J. Robinson, Los Angeles, Calif. Illuminated sign. 2,165,835; July 11.
Brandegee, Morris M. (See Johnson, A., and Brandegee.)
Brandt, Erich, Berlin-Lichterfelde, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Loudspeaker system. 2,165,781; July 11.
Brandt, Francis L., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for attaching heel portions. 2,165,919; July 11.
Branfeld, Max. (See Levine, M., and Branfeld.)
Brenner, Hugo L., Kirkwood, assignor to Barrett Equipment Company, St. Louis, Mo. Tool. 2,166,089; July 11.

British Electrical and Allied Industries Research Association, The. (See Daniel, Leslie H., assignor.)
British Oxygen Company Limited, The. (See Stephenson, Arthur, assignor.)
Brock, Ottl J., Vincennes, Ind. Stone sawing machine. 2,165,335; July 11.
Brogden, Joah, Melrose Park, Pa. Building wall construction. 2,165,336; July 11.
Bromley, Joseph H., Jr., Philadelphia, Pa. Electric jacquard mechanism. 2,165,446; July 11.
Bronander, Wilhelm B., Montclair, N. J., assignor to International Cigar Machinery Company. Tobacco stemming. 2,165,217; July 11.
Brooker, Leslie G. S., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. 4,4'-tricarbocyanine salts and their preparation. 2,165,337; July 11.
Brooker, Leslie G. S., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,165,339; July 11.
Brooker, Leslie G. S., assignor to Eastman Kodak Company, Rochester, N. Y. Heterocyclic formylmethylene compounds. 2,165,692; July 11.
Brooker, Leslie G. S., Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Formylmethylene derivatives. 2,165,218; July 11.
Brooker, Leslie G. S., Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Preparation of dyes. 2,165,219; July 11.
Brooker, Leslie G. S., and F. L. White, assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Merocarbocyanine dyes and photographic emulsions containing the same. 2,165,338; July 11.
Brooks, Benjamin T., Old Greenwich, Conn., assignor to Standard Alcohol Co. Halogenation of tertiary alcohols. 2,165,782; July 11.
Bross, Theodore D., Hartford, Conn. Radio control device. 2,165,693; July 11.
Brown, Alexander H., Jr., Detroit, Mich., assignor to Transit Research Corporation, New York, N. Y. Electrical control device. 2,165,694; July 11.
Brown & Bigelow. (See Gordenier, Robert E., assignor.)
Brown, Fred, Sylvania, assignor to Doehler Die Casting Co., Toledo, Ohio. Door handle. 2,165,534; July 11.
Brown, Hugh S. (See Gormley, F. L., and Brown.)
Brown and Sharpe Manufacturing Company. (See Mathewson, M. I., and Krause, assignors.)
Browne, Kenneth A., Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Pressure metering carburetor. 2,165,447; July 11.
Browne, Kenneth A., Ridgewood, N. J., assignor to Wright Aeronautical Corporation. Turbosupercharger. 2,165,448; July 11.
Brownsey, Horace P., assignor, by mesne assignments, to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing machine. 2,165,535; July 11.
Brunner, Arnold, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Chloromethyl alkyl phenols. 2,165,956; July 11.
Bryce, James W., Bloomfield, N. J., and A. H. Dickinson, Brooklyn, assignors to International Business Machines Corporation, New York, N. Y. Calculating machine for effecting division. 2,165,220; July 11.
Bucher, Glen. (See Ver Meulen, J. M., and Bucher.)
Buda Company, The. (See Gormley, Frank L., assignor.)
Buda Company, The. (See Gormley, F. L., and Brown, assignors.)
Budd, Edward G., Manufacturing Company. (See Ragsdale, Earl J. W., assignor.)
Budd, George H., Los Angeles, Calif. Treatment tent. 2,165,449; July 11.
Buffalo Electro-Chemical Company. (See Kauffmann, Hans O., assignor.)
Buffalo Foundry & Machine Co. (See Kerner, Martin J., assignor.)
Burgess Battery Company. (See Bertrand, Arthur B., assignor.)
Burgess, Walter S., Jr., Benton Harbor, Mich. Humidifier. 2,165,783; July 11.
Burke, Alfred K., Flint, Mich., and T. J. McKeon, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of colorless liquid organic esters. 2,165,450; July 11.
Burke, James L. (See Koch, H., and Burke.)
Burnip, Harold A., assignor to United States Stoneware Company, Cleveland, Ohio. Pipe joint. 2,165,920; July 11.
Burns, Robert S. (See Hudson, E. B., and Burns.)
Burrage, Leslie J., Liverpool, England, assignor to Imperial Chemical Industries Limited. Treatment of acid gases. 2,165,784; July 11.
Burroughs Adding Machine Company. (See Butler, Thomas M., assignor.)
Burrowes Corporation, The. (See Sawyer, William B., assignor.)
Burton, Frank F., Mount Carmel, Conn., assignor, by mesne assignments, to Western Cartridge Company. Adjustable sight mount for firearms. 2,165,785; July 11.
Burton, John, Edgbaston, Birmingham, England. Scaffold clamp. 2,165,221; July 11.
Buschbeck, Werner. (See Gothe, A., Buschbeck and Kautter.)
Buschbeck, Werner, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Modulation meter. 2,165,836; July 11.
Butler, Thomas M., assignor to Burroughs Adding Machine Company, Detroit, Mich. Calculating machine. 2,165,340; July 11.
Callaghan, George H. (See Dewan, Leon, assignor.)
Campbell, Charles A., and L. A. Safford, Watertown, N. Y., assignors to The New York Air Brake Company. Pop valve. 2,165,611; July 11.
Campbell, Harry J., Woodworth, Mont. Wire stretcher. 2,165,695; July 11.
Campbell, Lorn, Jr., Lakewood, Ohio. Dispensing fluids from containers. 2,165,342; July 11.
Campos, Vincent, III, Chicago, Ill. Bifocal height and decentration device. 2,166,037; July 11.
Canetta, John, Wilkinsburg, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Orifice control device. 2,165,995; July 11.
Canton, Jean E., Cannes-la-Bocca, France. Watercraft. 2,165,745; July 11.
Capdet, Henri, Toulouse, France. Engine and engine compressor. 2,165,222; July 11.
Capstaff, John G., and O. E. Miller, assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Photographic objective. 2,165,341; July 11.
Carbide and Carbon Chemicals Corporation. (See Boese, Albert B., Jr.)
Carborundum Company, The. (See Klomp, Alfred W., assignor.)
Carlson, Bert G., Bellerose, assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Servomotor system for aircraft. 2,165,451; July 11.
Carlson, Philip, Long Hill, assignor to The Metropolitan Body Company, Bridgeport, Conn. Truck. 2,165,452; July 11.
Carter, Bernard M., Montclair, N. J., assignor to General Chemical Company, New York, N. Y. Producing arsenic acid by reaction of nitric acid and arsenious oxide, with recovery of nitric acid. 2,165,957; July 11.
Carter, Irving G., Green Briar, Tenn., assignor to American Telephone and Telegraph Company. Wire wrapping tool. 2,165,883; July 11.
Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Aperiodic antenna. 2,165,958; July 11.
Celanese Corporation of America. (See Moss, William H., assignor.)
Celanese Corporation of America. (See Platt, H., and Snowdon, assignors.)
Celanese Corporation of America. (See Taylor, W. I., and Gibbins, assignors.)
Chamberlin, John W., and R. E. Bassett, Jr., South Bend, Ind., assignors to Bendix Home Appliances, Inc., Detroit, Mich. Cleaning textile and similar materials. 2,165,884; July 11.
Chambon, Henri, assignor to Societe Anonyme des Anciens Etablissements L. Chambon, Paris, France. Manufacture of board strengthened coverings. 2,166,038; July 11.
Chappell, Martin L., Los Angeles, Calif. Miniature airplane wheel. 2,165,536; July 11.
Charter, James A., Chicago, Ill. Fluid control mechanism. 2,165,696; July 11.
Chase Brass & Copper Co. (See Killmeyer, Chester A., assignor.)
Cheek, William T., Springfield, Mo. Vapor condenser. 2,165,746; July 11.
Chemipulp Process Inc. (See Merrill, A. D. and Dunbar, assignors.)
Cheney Weeder Company. (See Edgington, Aaron D., assignor.)
Chester, Edwin T., et al. (See Foster, James D., assignor.)
Chicago Flexible Shaft Company. (See Jepson, Ivar, assignor.)
Chicago Railway Equipment Company. (See Light, David M., assignor.)
Chiles, George S., Chicago, Ill. Skate. 2,165,996; July 11.
Chilton, Allan, Glen Rock, C. C. De Pew, Bloomfield, and R. Chilton, Ridgewood, assignors, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J. Multiple engine power plant. 2,165,453; July 11.
Chilton, Roland. (See Chilton, A., De Pew and Chilton.)
Chilton, Roland, Ridgewood, assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J. Reduction gear. 2,165,462; July 11.
Chilton, Roland, Ridgewood, assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J. Dynamic torque balancer. 2,165,463; July 11.
Chisholm, Clifton, Cleveland Heights, Ohio. Typewriting machine. 2,165,224; July 11.
Chisholm, Clifton, Cleveland, Ohio. Typewriting machine. 2,165,225; July 11.
Chisholm, Clifton, assignor of thirty-five per cent to H. C. Osborn, Cleveland, Ohio. Power-operated typewriter. 2,165,223; July 11.
Christen, Fritz, Zurich-Altstetten, Switzerland. Magnesium alloys. 2,166,039; July 11.
Christianson, Carl O., Ames, Iowa. Drink vending machine. 2,165,959; July 11.

Christman, Peter J., assignor to Paper Converting Machine Co., Green Bay, Wis. Paper napkin machine. 2,165,786; July 11.
Clark, Donald R. (See Bird, W., and Clark.)
Clark Equipment Company. (See Gettig, Joseph H., assignor.)
Clark, William C., Syracuse, N. Y. Tally card. 2,165,612; July 11.
Clark, Verdrie F., New Albany, Ind., assignor to Peerless Manufacturing Corporation, Louisville, Ky. Stoker. 2,166,040; July 11.
Cleveland Gas Meter Company, The. (See Knight, William H., Jr., assignor.)
Clifford, Albert M., Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Age resistor. 2,165,960; July 11.
Clyne, James B., assignor to A. G. Apple, Chicago, Ill. Pipe filter. 2,165,537; July 11.
Coates, Fielding C., and H. S. Fowler, assignors to Mole-Richardson Co., Los Angeles, Calif. Electrode release attachment for arc lamps. 2,165,697; July 11.
Coghill, Robert D., New Haven, Conn., assignor to Parke, Davis & Company, Detroit, Mich. Modified protein and producing the same. 2,165,837; July 11.
Cohen, David C., et al. (See Trojan, José, assignor.)
Cold Metal Process Company, The. (See Goss, Norman P., assignor.)
Cole, Cherie. (See Cole, Taylor, assignor.)
Cole, Taylor, Midland, assignor to C. Cole, Austin, Tex. Electric iron. 2,165,343; July 11.
Collard, John, Hammersmith, London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electric signal transmission system. 2,165,838; July 11.
Collins, Arthur A., Cedar Rapids, Iowa. Automatic tuning system and apparatus. 2,165,226; July 11.
Collins Supply & Equipment Company. (See Munson, Willard T., assignor.)
Colonial Broach Company. (See Thompson, Richard A., assignor.)
Colton, H. Seymour, et al., trustees. (See Colton, Henry S., assignor.)
Colton, Henry S., Shaker Heights, Ohio, assignor to H. Seymour Colton, M. J. Rentschler, and J. A. Weeks, trustees. Solid material from waste liquor. 2,165,344; July 11.
Compo Shoe Machinery Corporation. (See Smith, John F., assignor.)
Conn, Kenneth E., Bloomington, Ind. Apparatus for grading and marking. 2,165,613; July 11.
Connors, George H., assignor to Highway Trailer Company, Edgerton, Wis. Support for trailer vehicles. 2,165,538; July 11.
Continental Can Company. (See Conway, C. C., Jr., and Morrison, assignors.)
Continental Roll and Steel Foundry Company. (See Duda, Wentzel R., assignor.)
Conway, Carle C., Jr., and C. C. Morrison, assignors to Continental Can Company, Inc., New York, N. Y. Water color paint box. 2,165,345; July 11.
Cook, Elmer W., New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Preparing secondary aryl amines. 2,165,747; July 11.
Cook, Howard D., Elyria, and F. M. Scharff, Lorain, Ohio, assignors to National Tube Company. Workpiece vise for cutting devices. 2,165,614; July 11.
Cooper, Benjamin, New York, N. Y. Switch. 2,165,227; July 11.
Cooper, Benjamin, New York, N. Y. Treadle controlled system. 2,166,090; July 11.
Cope, Clifford L., assignor to J. E. Goerlich, Toledo, Ohio. Combined heater and defroster. 2,165,615; July 11.
Cork, Edward C., Ealing, London, and J. L. Pawsey, Hillingdon, assignors to Electric & Musical Industries Limited, Hayes, England. High frequency signaling system. 2,165,961; July 11.
Corn Products Refining Company. (See Bode, Harold E., assignor.)
Cornell, Edward S., Jr., Larchmont, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Producing integral wrought metal valve bodies. 2,165,228; July 11.
Cornell, Edward S., Jr., Larchmont, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Producing branch fittings. 2,165,454; July 11.
Cotton, Robert W., Calgary, Alberta, Canada. Ashtray. 2,165,885; July 11.
Courtaulds, Limited. (See Givens, John H., assignor.)
Cox, Henry W., North Melbourne, Victoria, Australia. Wire tightening and twisting machine. 2,165,455; July 11.
Cox, Henry W., North Melbourne, Victoria, Australia. Wire tightening and twisting machine. 2,165,456; July 11.
Cox, John P., St. Louis, Mo., assignor to General Motors Corporation, Detroit, Mich. Polishing machine. 2,165,616; July 11.
Cox, Percy, Kent, England. Explosively actuated underwater riveting and punching or like apparatus. 2,166,041; July 11.
Crosby, Murray G., Riverhead, N. Y., assignor to Radio Corporation of America. Phase modulation. 2,165,229; July 11.
Crouse-Hinds Company. (See Bissell, Carl H., assignor.)
Crowell, Walter S. (See Stangenberg, J. W. H., Crowell, and Gross.)
Crumrine, Chester W., assignor to Eastman Kodak Company, Rochester, N. Y. Folding camera construction. 2,165,346; July 11.
Crystal Manufacturing Company. (See Trojan, José.)
Cunningham, James M., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Multiplying machine. 2,165,230; July 11.
Curle, George L., Minneapolis, Minn. Lubricating the side-trimming knives in a type casting machine. 2,165,347; July 11.
Curtis, Franklin E., Willoughby, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Printing machine. 2,165,231; July 11.
Curtis, Franklin E., Willoughby, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Paper feeding mechanism. 2,165,232; July 11.
Curtis, Franklin E., Willoughby, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Attaching printing plates on drums. 2,165,233; July 11.
Curtis, Franklin E., Willoughby, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Material applicator for planographic printing machines. 2,165,234; July 11.
Curtis, Franklin E., Willoughby, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio. Material applicator for planographic printing machines. 2,165,235; July 11.
Curtis Pump Company. (See Curtis, William H., assignor.)
Curtis, William H., Elyria, assignor to Curtis Pump Company, Dayton, Ohio. Constant flow nonpulsating pump. 2,165,963; July 11.
Curtiss-Wright Corporation. (See Berlin, Donovan R., assignor.)
Curtiss-Wright Corporation. (See Desing, Arthur J., assignor.)
Curtiss-Wright Corporation. (See Hovgard, Paul E., assignor.)
Cutler-Hammer, Inc. (See Taylor, John R., assignor.)
Cutts, Richard M., Jr., Cape May, N. J. Compensator. 2,165,457; July 11.
Dahlgren, Harold T., assignor to Teletype Corporation, Chicago, Ill. Package. 2,165,539; July 11.
Dahlstrom, Harry E. (See Olson, J., and Dahlstrom.)
Dahlstrom, Roy. (See Washburn, W. F., Dahlstrom, and McCord.)
Daiber, Ome C., Seattle, Wash. Combination outdoor jacket and pack. 2,165,348; July 11.
Daimler, Karl, and M. Paquin, Frankfort-on-the-Main, and W. Riedelsberger, Bad Soden in Taunus, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing fire-extinguishing foam. 2,165,997; July 11.
Dain Manufacturing Company of Iowa. (See Jones, Frank D., assignor.)
Daley, Gustav J., Stockton, Calif., assignor, by mesne assignments, to The Stearns-Roger Manufacturing Company, Denver, Colo. Beet flume control mechanism. 2,165,349; July 11.
Dalimata, John M., Chester, Mont. Furrow basin forming attachment for cultivators. 2,166,042; July 11.
Daniel, Leslie H., assignor to The British Electrical and Allied Industries Research Association, London, England Arrangement for suppressing high frequency interference. 2,165,886; July 11.
Dart, Edward W., Lutherville, assignor to The Glenn L. Martin Company, Baltimore, Md. Spar chord. 2,165,458; July 11.
Davidson, William D., and G. Tremolada, assignors to Ensco Derrick and Equipment Company, Los Angeles, Calif. Control for four-speed portable drilling machines. 2,165,350; July 11.
Davis, Lincoln K., Brockton, Mass. Fuel consumption indicator. 2,165,839; July 11.
Debrey, Michael, assignor to The Simplex Corporation, Burlington, Iowa. Automatic voltage regulator. 2,165,887; July 11.
Delaney, John M. (See Vigorith, A., Story, and Delaney.)
Dental Research Corporation. (See Erdle, Reiner W., assignor.)
Denton, Ralph M., et al. (See King, Clyde H., assignor.)
De Pew, Chester C. (See Chilton, A., De Pew, and Chilton.)
Derveaux, Harry V., Miami Beach, Fla. Adjustable and controllable ventilator means. 2,165,351; July 11.
De Seversky, Alexander P., Northport, N. Y., assignor to Seversky Aircraft Corporation. Aircraft structure. 2,165,459; July 11.
De Silvestro, Salvatore, New York, N. Y. Combined cigarette lighter and case. 2,165,998; July 11.
Desing, Arthur J., Buffalo, N. Y., assignor to Curtiss-Wright Corporation. Adjustable length lever. 2,165,460; July 11.
Dettwyler, William, Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compounds of the anthraquinone series. 2,165,618; July 11.
Dewan, Leon, assignor of fifty per cent to G. H. Callaghan, New York, N. Y. Method of and apparatus for recording and reproducing of sound. 2,165,236; July 11.
Dewey, John J. (See Douglas, G. W., and Dewey.)

Dexdale Hosiery Mills. (See Berger, E. J., and Matthews, assignors.)
Dickey, Joseph B., and J. B. Normington, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn treating processes and compositions therefor. 2,165,352; July 11.
Dickey, Joseph B., and J. B. Normington, assignors to Eastman Kodak Company, Rochester, N. Y. Yarn treating processes and compositions therefor. 2,165,353; July 11.
Dickinson, Arthur H. (See Bryce, J. W., and Dickinson.)
Dictograph Products Company. (See Koch, Henry, assignor.)
Dimmick, Glenn L., Erlton, N. J., assignor to Radio Corporation of America. Antiground noise recording system. 2,165,787; July 11
Distillation Products, Inc. (See Hickman, Kenneth C. D., assignor.)
Ditto, Incorporated. (See Kokay, Stephen, assignor.)
Doble, Ralph N., Hingham, Mass. Tea bag, coffee bag, and the like and making the same. 2,165,840; July 11.
Doble, Ralph N., Hingham, Mass. Packaging machine. 2,165,841; July 11.
Doeg, Ralph W., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Piston. 2,165,619; July 11.
Doeg, Ralph W., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,165,620; July 11.
Doehler Die Casting Co. (See Brown, Fred, assignor.)
Donahue, Patrick F., Waterville, assignor to Scovill Manufacturing Company, Waterbury, Conn. Pipe connection. 2,165,622; July 11.
Donahue, Patrick F., Waterville, and W. P. Ferguson, Middlebury, assignors to Scovill Manufacturing Company, Waterbury, Conn. Pipe connection. 2,165,621; July 11.
Donath, Ernst. (See Pier, M., and Donath.)
Dorr Company, The. (See Fischer, A. J., and Lund, assignors.)
Doty, Charles R., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Communication system. 2,165,237; July 11.
Double, Howard E., Bradford, Pa. Hood or cabinet for bottled gas systems. 2,166,043; July 11.
Douglas Automotive Corporation. (See Douglas, G. W., and Dewey, assignors.)
Douglas, George W., New York, N. Y., and J. J. Dewey, Greenwich, Conn. Rotating and adjustable poppet valve. 2,165,239; July 11.
Douglas, George W., New York, N. Y., and J. J. Dewey, Greenwich, Conn.; said Dewey assignor, by mesne assignments, to Douglas Automotive Corporation, New York, N. Y. Valve for internal combustion engines. 2,165,238; July 11.
Dow Chemical Company, The. (See Prutton, Carl F., assignor.)
Dow, Dewey M. (See Riebel, F., Jr., and Dow.)
Downey, Clement L., Cincinnati, Ohio. Coin counting machine. 2,165,240; July 11.
Downey, Clement L., Cincinnati, Ohio. Coin counting machine. 2,165,241; July 11.
Downey, Dorothy. (See Nancarrow, George, assignor.)
Dowst Manufacturing Company. (See Bischof, Frank, assignor.)
Dreisbach, Charles A., Yonkers, N. Y. Shifting device for automobiles. 2,165,461; July 11.
Drill, Daniel C., assignor to American Rock Wool Corporation, Wabash, Ind. Means whereby minerals may be melted. 2,165,242; July 11.
Drycor Felt Company. (See Walsh, P. H., and Gates, assignors.)
Duane, Harry B., Boston, and W. H. Long, Malden, Mass., assignors to The Smack Corporation, New York, N. Y. Combined cylinder forming and filling machine. 2,165,354; July 11.
Dube, John E., assignor to The Fulton Sylphon Company, Knoxville, Tenn. Temperature regulator. 2,165,355; July 11.
Duda, Wentzel R., Pittsburgh, Pa., assignor to Continental Roll and Steel Foundry Company. Roll handling tool. 2,165,921; July 11.
Dunbar, Charles, Manchester, England, assignor to Imperial Chemical Industries Limited. Dry-cleaning fluid. 2,165,356; July 11.
Dunbar, Thomas L. (See Merrill, A. D., and Dunbar.)
Dunbrook, Raymond F., and B. J. Humphrey, assignors to The Firestone Tire & Rubber Company, Akron, Ohio. Preserving rubber and product thereof. 2,165,623; July 11.
Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)
Duner Co. (See Duner, Sven, assignor.)
Duner, Sven, Wheaton, assignor to Duner Co., Chicago, Ill. Water closet. 2,165,243; July 11.
Dunn, James F., Washington, D. C. Desk. 2,165,244; July 11.
Du Pont, E. I., de Nemours & Company. (See Burke, A. K., and McKeon, assignors.)
Du Pont, E. I., de Nemours & Company. (See Dettwyler, William, assignor.)
Du Pont, E. I., de Nemours & Company. (See Graves, G. D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Harmon, J., and McQueen, assignors.)
Du Pont, E. I. de Nemours & Company. (See Lubs, H. A., and Strouse, assignors.)
Du Pont, E. I., de Nemours & Company. (See Mattlage, Walter F. H., assignor.)
Du Pont, E. I., de Nemours & Company. (See McQueen, David M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Taylor, Edward A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Thomas, Raymond E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Youker, Mortimer A., assignor.)
Earle, Ralph H., Wauwatosa, and A. G. Steinmayer, Milwaukee, assignors to Line Material Company, South Milwaukee, Wis. Lightning arrester. 2,165,964; July 11.
Earnshaw, David P., assignor to Philco Radio & Television Corporation, Philadelphia, Pa. Coil-condenser assembly for radio receivers. 2,165,467; July 11.
Easthampton Rubber Thread Co. (See Shaw, Kenneth R., assignor.)
Eastman, Alonzo R., Portland, Oreg. Gaff hook. 2,165,245; July 11.
Eastman Kodak Company. (See Aklin, G. H., and Altman, assignors.)
Eastman Kodak Company. (See Brooker, Leslie G. S., assignor.)
Eastman Kodak Company. (See Brooker, L. G. S., and White, assignors.)
Eastman Kodak Company. (See Capstaff, J. G., and Miller, assignors.)
Eastman Kodak Company. (See Crumrine, Chester W., assignor.)
Eastman Kodak Company. (See Dickey, J. B., and Normington, assignors.)
Eastman Kodak Company. (See Fairbanks, Henry N., assignor.)
Eastman Kodak Company. (See Fairbanks, H. N., and Hughey, assignors.)
Eastman Kodak Company. (See Frederick, C. W., and Schade, assignors.)
Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)
Eastman Kodak Company. (See Murray, Alexander, assignor.)
Eastman Kodak Company. (See Nadeau, G. F., and Fisher, assignors.)
Eastman Kodak Company. (See Nagel, August, assignor.)
Eastman Kodak Company. Riddell, William A., assignor.)
Eastman Kodak Company. (See Schubert, Alvin E., assignor.)
Eastman Kodak Company. (See Sheppard, S. E., and Houck, assignors.)
Eastman Kodak Company. (See Tuttle, F., and Beggs, assignors.)
Eastman Kodak Company. (See Waugh, George P., assignor.)
Eastman Kodak Company. (See Wellman, Howard C., assignor.)
Eclipse Aviation Corporation. (See Baer, Howard E., assignor.)
Economy Engineering Company. (See White, Leon T., assignor.)
Edgington, Aaron D., assignor to Cheney Weeder Company, Cheney, Wash. Straw support for threachers. 2,165,888; July 11.
Edwards, Gordon C., Toronto, Ontario, Canada. Apparatus for projecting aerial signs. 2,165,246; July 11.
Eger, Ernst, Grosse Pointe Park, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Device for slitting tire treads. 2,165,842; July 11.
Ehrhardt, Paul G., Frankfort-on-the-Main, and A. Sprater, Berlin-Frohnau, Germany. Retractable alighting gear for airplanes. 2,165,465; July 11.
Eichner, Albert D., New York, N. Y. Knitting jack. 2,165,464; July 11.
Eisenberg, Le Roy, Flushing, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Dress shield. 2,165,359; July 11.
Eldorado Escalator Co. (See Koch, H., and Burke, assignors.)
Electric Controller & Manufacturing Company, The. (See Leitch, John D., assignor.)
Electric Controller & Manufacturing Company, The. (See Smith, Ward L., assignor.)
Electric & Musical Industries Limited. (See Collard, John, assignor.)
Electric & Musical Industries Limited. (See Cork, E. C., and Pawsey, assignors.)
Elliott, Frank R., Los Angeles, Calif., assignor to Ethyl Gasoline Corporation, Detroit, Mich. Supercharger system for motor vehicles. 2,165,360; July 11.
Elliott, Harmon P., Watertown, Mass. Addressing machine and card feeding mechanism therefor. 2,165,748; July 11.
Elmendorf, Armin, Winnetka, Ill. Flexible wood flooring. 2,165,788; July 11.
Elwell, Edwin L., Baltimore, Md., assignor to Eskimo Pie Corporation, Bloomfield, N. J. Stick holder for manufacturing frozen confections on sticks. 2,165,789; July 11.
Emmert, George W., Bloomfield Hills, Mich. Vent tube for fuel tanks. 2,165,357; July 11.

Emmert, Kenneth L. (See Hensel, F. R., and Emmert.)
Emsco Derrick and Equipment Company. (See Davidson, W. D., and Tremolada, assignors.)
Engel, Albert W., Chicago, Ill. Binding strip affixing device. 2,165,540; July 11.
Engel, Albert W., Chicago, Ill. Label and marker for lantern slides. 2,165,790; July 11.
Engel, Ernst, assignor to Alfred Teves Maschinen und Armaturen-Fabrik Gesellschaft mit beschrankter Haftung, Frankfort-on-the-Main, Germany. Vehicle brake. 2,165,358; July 11.
Engel, Karl, Swampscott, and C. S. Kinney, Middleton, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Machine for fastening uppers to insoles. 2,165,361; July 11.
Engholm, Trygve H., and G. Hernes, assignors to N. Jacobsens Elektriske Vaerksted A/S, Oslo, Norway. Arrangement for controlling the start in race courses. 2,165,749; July 11.
Erdle, Reiner W., Chicago, Ill., assignor to Dental Research Corporation. Making shell-like porcelain tooth structures. 2,165,466; July 11.
Eskimo Pie Corporation. (See Elwell, Edwin L., assignor.)
Ethyl Gasoline Corporation. (See Elliott, Frank R., assignor.)
Evans, David G., Kansas City, Mo. Necktie inserter. 2,165,624; July 11.
Evans Products Company. (See Lintern, William, assignor.)
Eyerly, Lee U., Salem, Oreg. Seat for amusement devices. 2,165,698; July 11.
Fairbanks, Henry N., assignor to Eastman Kodak Company, Rochester, N. Y. Motion picture apparatus. 2,165,363; July 11.
Fairbanks, Henry N., and C. J. Hughey, assignors to Eastman Kodak Company, Rochester N. Y. Driving mechanism for motion picture apparatus. 2,165,362; July 11.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,165,999; July 11.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,166,000; July 11.
Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,166,001; July 11.
Farrell, Michael J., Atlantic Highlands, assignor of one-fourth to F. J. McKeever, Jersey City, N. J. Driving means for internal combustion engines. 2,165,791; July 11.
Farrington, John F., Flushing, N. Y., assignor to Hazeltine Corporation. High-frequency oscillator. 2,165,468; July 11.
Fawick, Thomas L. (See Young, W. T., and Fawick.)
Felt, Abraham, Brooklyn, N. Y. Pocket. 2,165,843; July 11.
Fellegi, Margit, assignor to West Coast-Manchester Mills, Inc., Los Angeles, Calif. Sewing of fabrics. 2,165,469; July 11.
Felton & Guilleaume Carlswerk Actien-Gesellschaft. (See Unterbusch, Franz, assignor.)
Ferguson, Andrew W. (See Snyder, C. H., and Ferguson.)
Ferguson, William P. (See Donahue, P. F., and Ferguson.)
Ferngren, Enoch T., Little Neck, N. Y., assignor to Fernplas Corporation, Toledo, Ohio. Method of and apparatus for coating articles by dipping. 2,165,364; July 11.
Fernplas Corporation. (See Ferngren, Enoch T., assignor.)
Ferrocon Corporation. (See Kotrbaty, Guy F., assignor.)
Fessel, John F., Defiance, Ohio. Bracelet flashlight holder. 2,165,625; July 11.
Field, Oscar S., assignor to General Railway Signal Company, Rochester, N. Y. Relay. 2,166,091; July 11.
Finch, James L., Rocky Point, N. Y., assignor to Radio Corporation of America. Method and means for modulation. 2,165,844; July 11.
Firestone Tire & Rubber Company, The. (See Dunbrook, R. F., and Humphrey, assignors.)
Fischer, Anthony J., Jackson Heights, and N. B. Lund, Seaford, assignors to The Dorr Company, Inc., New York, N. Y. Aeration of liquids. 2,165,889; July 11.
Fisher, Stanley J., Downey, Downey, Calif. Retaining device. 2,165,699; July 11.
Fisher, Webster E. (See Nadeau, G. F., and Fisher.)
Fisk, Frank B., assignor to Pitman-Moore Company, Indianapolis, Ind. Amine salt preparation for internal medication. 2,165,470; July 11.
Fitch, Clyde J., and K. R. Schneider, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Teletypewriter. 2,165,247; July 11.
Fletcher, Ed. (See Thomas, J. H., and Fletcher.)
Fletcher, Harold L., Hazeldene, Forest Row, England. Grip for handles. 2,166,044; July 11.
Fletcher, Harold L., London, England. Grip for handles. 2,166,045; July 11.
Floreth, Alvin H., assignor to Gardner Wire Co., Chicago, Ill. Door spring. 2,165,792; July 11.
Flory, Leslie E. (See Morton, G. A., and Flory.)
Flurl, Joseph. (See Tischner, H., Flurl, and Wessels.)
Ford, John L., assignor to Ford Meter Box Company, Wabash, Ind. Meter setter 2,165,626; July 11.
Ford Meter Box Company. (See Ford, John L., assignor.)
Foster, James D., Kansas City, Mo., assignor, by mesne assignments, to W. J. Krebs and E. T. Chester. Spray iron. 2,165,541; July 11.
Foster, James W., Freehold, N. J. Pile wire motion for looms. 2,165,890; July 11.
Fowler, Henry S. (See Coates, F. C., and Fowler.)
France, Edwin A., Philadelphia, Pa. Mechanical packing. 2,165,845; July 11.
Frederick, Charles W., and W. Schade, assignors to Eastman Kodak Company, Rochester, N. Y. Lens attachment. 2,165,365; July 11.
Freedman, Edward H., New York, N. Y. Game. 2,165,891; July 11.
Freeman, Thomas R. and W. S., Washington, D. C. Fraud detecting device for coin controlled apparatus. 2,165,471; July 11.
Freeman, Willard S. (See Freeman, Thomas R. and W. S.)
French, James W., Anniesland, Glasgow, assignor to Barr and Stroud, Limited, Glasgow, Scotland. Stereoscopic observation instrument, such as stereoscopic rangefinders. 2,166,046; July 11.
Frey, Alfred, Freising, Bavaria, and H. Glück and H. Oehme, Cologne-Kalk, Germany. Production of butanol and acetone by the fermentation of whey. 2,166,047; July 11.
Friechione, Pasquale, Scranton, Pa. Domestic coal stoker. 2,165,627; July 11.
Friedman, John H., assignor to The National Machinery Company, Tiffin, Ohio. Axle and making same. 2,165,472; July 11.
Fritsch, Anthony P., Pittsburgh, Pa. Advertising sign for vehicles. 2,166,048; July 11.
Fritsch, Peter J., Minneapolis, Minn., Artificial tree bark. 2,166,002; July 11.
Fuller, Frederick L., West Orange, N. J., assignor to International Business Machines Corporation, New York, N. Y. Cash register. 2,165,248; July 11.
Fuller, Frederick L., West Orange, N. J., assignor to International Business Machines Corporation, New York, N. Y. Card punching machine. 2,165,249; July 11.
Fulton Sylphon Company, The. (See Dube, John E., assignor.)
Gabby, John L. (See Porsche, J. D., Pike, and Gabby.)
Gaebel, Arthur H., Larchmont, N. Y., and A. K. Hansen, Alexandria, Va.; said Hansen assignor to said Gaebel. Retouching and stripping frame. 2,165,965; July 11.
Gagnier, George E. (See Place, Blon C., assignor.)
Gaisman, Lucien, Woodley, near Manchester, England. Carriage way unit for bridges and like structures. 2,165,846; July 11.
Gaither, Herbert C., Detroit, Mich. Cable attaching means. 2,165,542; July 11.
Gallihugh, Gordon W., Flint, Mich. Hydraulic control for carburetors. 2,165,628; July 11.
Galloway, Donald W., Chicago, Ill., assignor to Talon, Inc. Trouser fly construction. 2,166,092; July 11.
Garbell, Max, assignor to Victor Adding Machine Company, Chicago, Ill. Printing mechanism. 2,165,922; July 11.
Garbell, Max, assignor to Victor Adding Machine Company, Chicago, Ill. Rectifying means for printing mechanism. 2,165,923; July 11.
Gard, Emmett B., New Castle, Pa. Curtain stretcher. 2,165,629; July 11.
Gardella, Albert B., Cleveland, assignor of one-half to G. C. Guckes, Lakewood, Ohio. Glass cap structure for percolator covers. 2,165,630; July 11.
Gardner, John K. (See Gardner, Joseph H. S. and J. K.)
Gardner, Joseph H. S. and J. K., assignors to L. Gardner & Sons Limited, Patricroft, near Manchester, England. Flexible mounting for internal combustion engines. 2,165,750; July 11.
Gardner, L., & Sons Limited. (See Gardner, Joseph H. S. and J. K., assignors.)
Gardner Wire Co. (See Floreth, Alvin H., assignor.)
Garrison, Allen D. (See Viette, W. V., and Garrison.)
Gáspár, Béla, Brussels-Forest, Belgium. Method of and material for producing multicolor images. 2,166,049; July 11.
Gasque, Paul E., Vincennes, France. Artificial minnow. 2,166,050; July 11.
Gates, Percival T. (See Walsh, P. H., and Gates.)
General Chemical Company. (See Carter, Bernard M., assignor.)
General Chemical Company. (See Scott, Garnett L., assignor.)
General Electric Company. (See Mandl, Arthur, assignor.)
General Electric Company, The. (See Puckette, Charles C., assignor.)
General Electric Company. (See Schmer, Karl, assignor.)
General Electric Company. (See Sobczak, W., and Thal, assignors.)
General Electric Company. (See Westendorp, Willem F., assignor.)
General Motors Corporation. (See Blomberg, Martin P., assignor.)
General Motors Corporation. (See Booth, James H., assignor.)
General Motors Corporation. (See Cox, John P., assignor.)
General Motors Corporation. (See Little, John H., assignor.)

General Motors Corporation. (See Oswald, John, assignor.)
General Motors Corporation. (See Reifer, G. M., and Shanahan, assignors.)
General Motors Corporation. (See Snyder, G., and Lawson, assignors.)
General Motors Corporation. (See Waterhouse, Charles L., Jr., assignor.)
General Railway Signal Company. (See Field, Oscar S., assignor.)
General Railway Signal Company. (See Whitehorn, Arthur R., assignor.)
George, Harry O., Vestal, assignor to International Business Machines Corporation, New York, N. Y. Statistical card. 2,165,250; July 11.
Gerhard, Ernst, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Modulating ultra short waves. 2,165,847; July 11.
Gerhold, Clarence G., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,165,631; July 11.
Gesellschaft für Linde's Eismaschinen A. G. (See Zerkowitz, Guido, assignor.)
Gettig, Joseph H., assignor to Clark Equipment Company, Buchanan, Mich. Roll forging machine. 2,165,543; July 11.
Gevaert Photo-Product N. V. (See Verkinderen, Honoré, assignor.)
Gibbins, Leslie B. (See Taylor, W. I., and Gibbins.)
Gifford, Emerson W., Teaneck, N. J., assignor to International Business Machines Corporation, New York, N. Y. Sorting machine. 2,165,251; July 11.
Givens, John H., Coventry, assignor to Courtaulds, Limited, London, England. Manufacture and production of artificial filaments, threads, bands, and the like. 2,166,051; July 11.
Globe American Corporation. (See Hill, Dewey H., assignor.)
Glück, Hans. (See Frey, A., Glück, and Oehme.)
Glynn, Henry, Oakland, Calif. Invalid walking support. 2,165,700; July 11.
Goerke, Henry, New York, N. Y. Racket. 2,165,701; July 11.
Goerlich, John E. (See Cope, Clifford L., assignor.)
Goldstine, Hallan E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Phase modulation receiver. 2,165,252; July 11.
Goodman Manufacturing Company. (See Pray, Thomas E., assignor.)
Goodman Manufacturing Company. (See Sloane, William W., assignor.)
Goodrich, B. F., Company, The. (See Haushalter, Fred L., assignor.)
Goodrum, Charles L., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,165,924; July 11.
Goodrum, Charles L., New York, N. Y., E. E. Hinrichsen, Pasadena, Calif., and L. Keller, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Automatic billing system. 2,165,925; July 11.
Gordenier, Robert E., assignor to Brown & Bigelow, St. Paul, Minn. Ashtray. 2,165,544; July 11.
Gormley, Frank L., Chicago, assignor to The Buda Company, Harvey, Ill. Swivel cap for lifting jacks. 2,165,366; July 11.
Gormley, Frank L., Chicago, and H. S. Brown, assignors to The Buda Company, Harvey, Ill. Hydraulic lifting jack. 2,165,367; July 11.
Goss, Norman P., assignor to The Cold Metal Process Company, Youngstown, Ohio. Sheet metal and manufacture. 2,165,368; July 11.
Gothe, Albrecht, W. Buschbeck, and W. Kantter, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Protection of high frequency lines. 2,165,848; July 11.
Government of the United States of America, represented by the Secretary of Commerce. (See Thomas, James L., assignor.)
Grace, Ralph C., San Francisco, Calif. Template. 2,165,369; July 11.
Grade-O-Lite, Inc. (See Templeman, James A., assignor.)
Grant, Edmund G., Pasadena, Calif. Boatl 2,165,545; July 11.
Graves, George D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of polyamides. 2,165,253; July 11.
Gray, Alvin E., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Record controlled machine. 2,165,254; July 11.
Green, Estill I., East Orange, N. J., and W. H. Tidd, White Plains, N. Y., assignors to American Telephone and Telegraph Company. Multiplex telemetering system. 2,165,892; July 11.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Polyphase meter case. 2,166,003; July 11.
Greene, Paul A., Venice, Calif. Faucet attachment. 2,165,926; July 11.
Greenlee Bros. & Co. (See Mansfield, Judson H., assignor.)
Gregory, Dennis, assignor to A. C. Wickman Limited, Coventry, England. Lathe and other machine tools. 2,165,751; July 11.
Greneker, Lillian L., New York, N. Y. Display figure. 2,165,473; July 11.
Greneker, Lillian L., New York, N. Y. Ornamental display device. 2,165,474; July 11.
Greneker, Lillian L., New York, N. Y. Display structure. 2,165,475; July 11.
Greneker, Lillian L., New York, N. Y. Display head. 2,165,476; July 11.
Griffith, William B., Audubon, N. J. Sprinkler head. 2,165,477; July 11.
Gross, Charles V. (See Stangenberg, J. W. H., Crowell, and Gross.)
Gross, John H., New York, N. Y. Turnbuckle. 2,165,478; July 11.
Grossman, Cornell J., Millburn, N. J. Dental casting alloy. 2,165,793; July 11.
Grossman, Cornell J., Millburn, N. J. Dental casting alloy. 2,165,849; July 11.
Gruber, Wolfgang, M. Thoma, and H. Zoebelein, Burghausen, assignors to Dr. Alexander Wacker Gesellschaft für elektro-chemische Industrie, G. m. b. H., Munich, Germany. Cellulose acetate and producing same. 2,165,850; July 11.
Gruskin, Benjamin, Philadelphia, Pa., assignor to Lakeland Foundation, Chicago, Ill. Carcinoma antigen. 2,165,370; July 11.
Gruskin, Benjamin, Philadelphia, Pa., assignor to Lakeland Foundation, Chicago, Ill. Sarcoma antigen. 2,165,371; July 11.
Guckers, George C. (See Gardella, Albert B., assignor.)
Guiberson Corporation, The. (See Thaheld, Ferl A., assignor.)
Guillemin Tarayre, Jean, Paris, and A. Neveu, Livry-Gargan, France, assignors, by mesne assignments, to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,165,989; July 11.
Gunlon, Harry A., Frankfort, Ind. Alarm. 2,165,893; July 11.
Guyot Brothers, Inc. (See Boots, William C., assignor.)
H D Electric Company. (See Mitchell, Chester F., assignor.)
Haag, Wolfgang. (See Hofmann, G., Haag, and Zorn.)
Haag, Wolfgang, Mannheim, G. Hofmann and H. Zorn, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of a high quality lubricating oil. 2,165,372; July 11.
Haarhoff, Daniel V., Alberton, assignor to Anti-abradants (Proprietary) Limited, Johannesburg, Union of South Africa. Wear-resistant surface. 2,165,955; July 11.
Hailey, James, et al. (See Tilly, James O., assignor.)
Hale Fire Pump Co., The. (See Wendell, Evert J., assignor.)
Hall, Charles L., Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastener attaching plate for upholstery installations. 2,166,052; July 11.
Hall, Edward H., Chicago, Ill. Clutch for die press or the like. 2,166,004; July 11.
Hall, Elisha W., Scituate, Mass. Making a buffing wheel or wheel section and the product thereof. 2,165,752; July 11.
Hall, Frank W., assignor to The Texas Company, New York, N. Y. Solvent refining mineral oil. 2,166,005; July 11.
Hall, Fred B., F. G. Treat, Worcester, and H. F. Walton, Holden, assignors to Riley Stoker Corporation, Worcester, Mass. Hydraulic motor. 2,165,966; July 11.
Hallberg, Henry T., Chicago, Ill. Tee off apron. 2,165,479; July 11.
Ham, Garnet P. (See Jones, L. C., Barnes, and Ham.)
Hamilton Autographic Register Company, The. (See Roosevelt, M. S., and Bezold, assignors.)
Hamilton, John, San Francisco, Calif. Book support. 2,165,255; July 11.
Hamilton Laboratories, Inc., The. (See Bradner, Donald B., assignor.)
Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Radio beacon. 2,165,256; July 11.
Hansen, Arnold K. (See Gaebel, A. H., and Hansen.)
Hanson-Van Winkle-Munning Company. (See Yerger, C. W., and Todd, assignors.)
Harbison-Walker Refractories Company. (See Seaver, Kenneth, assignor.)
Harbord, Frank W. and V., London, England. Apparatus for casting metal. 2,166,006; July 11.
Harbord, Vernon. (See Harbord, Frank W., and V.)
Hardacre, Richard W., N. E. Holden, and C. Shaw, Blackley, Manchester, England, assignors, to Imperial Chemical Industries Limited. Coloring acetate artificial silk. 2,165,257; July 11.
Hardgrove, Ralph M., Westfield, assignor to The Babcock & Wilcox Company, Newark, N. J. Fluid heat exchange apparatus. 2,165,258; July 11.
Harman, Harry G., Lisbon, Iowa. Lateral mowing apparatus. 2,165,851; July 11.
Harmon, Jesse, and D. M. McQueen, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Process and bath for cleaning metals. 2,165,852; July 11.
Hart, Dudley W., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Mounting for rock drills. 2,165,853; July 11.
Harwood, James, and W. O. Pool, assignors to Armour and Company, Chicago, Ill. Concentrating ores. 2,166,093; July 11.

Hastings, Roger W., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,165,480; July 11.
Haupt, Hans, Berlin-Steglitz, Germany. Folding umbrella. 2,165,967; July 11.
Haushalter, Fred L., Akron, Ohio., assignor to The B. F. Goodrich Company, New York, N. Y. Resilient mounting. 2,165,702; July 11.
Hazeltine Corporation. (See Farrington, John F., assignor.)
Headrick, Billie, Wichita, Kans. Air conditioning apparatus. 2,165,854; July 11.
Heffelfinger, Paul E. (See Jung, O. H., and Heffelfinger.)
Heilig, William L., Chicago, Ill. Tweezers. 2,165,374; July 11.
Heisenberg, Erwin. (See Hubert, F. E., Heisenberg, Steindorff, and Orthner.)
Heltner, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism. 2,165,375; July 11.
Héliot, Léon P., Sainte-Savine, France. Device for the drawing upon forms, of articles to be finished, such as stockings and other hosiery goods. 2,166,053; July 11.
Heller, Herman S., West Los Angeles, Calif. Recording system for telephone conversations. 2,165,546; July 11.
Helm, Emerson B., assignor to Industrial Rayon Corporation, Cleveland, Ohio. Thread store device. 2,165,259; July 11.
Helmer, Walter S., Oak Park, Ill. Automobile supporting means. 2,165,376; July 11.
Hemphill Company. (See Lawson, R. H., and Smith, assignors.)
Henry, Ernest W., Battle Creek, Mich. Chain holding device. 2,165,377; July 11.
Hensel, Franz R., and K. L. Emmert, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electrical make and break contacts. 2,165,481; July 11.
Hercules Powder Company. (See Stern, Raphael L., assignor.)
Herman, Louis J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Printing mechanism. 2,165,260; July 11.
Hernes, Guttorm. (See Engholm, T. H., and Hernes.)
Hewitt, Ellis E., Edgewood, and D. L. McNeal, Wilkinsburg, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Safety control equipment. 2,166,007; July 11.
Hewlett, Amiot P., Westfield, and G. E. Phillips, Cranford, N. J., assignors to Standard Oil Development Company. Stabilized kerosene. 2,165,261; July 11.
Hickman, Kenneth C. D., assignor, by mesne assignments, to Distillation Products, Inc., Rochester, N. Y. Vacuum distillation. 2,165,378; July 11.
Hiers, Ralph H., Granville, Mass. Making toy drums. 2,165,379; July 11.
Highway Trailer Company. (See Connors, George H., assignor.)
Hill, Cortlandt T., Beverly Hills, Calif. Foot attachment for skis and the like. 2,165,547; July 11.
Hill, Dewey H., Macomb, Ill., assignor to Globe American Corporation, Kokomo, Ind. Poultry trough. 2,165,968; July 11.
Hinrichsen, Edward E. (See Goodrum, C. L., Hinrichsen, and Keller.)
Hipp, Augusta F., St. Joseph, Mo. Clothes supporting attachment for ironing boards. 2,165,548; July 11.
Hobbs, Travis R., San Dimas, Calif. Self-cleaning water fountain. 2,165,753; July 11.
Hoeft, Adolph R., Evanston, Ill. Oil burner. 2,166,065; July 11.
Hoffenberg, Isidor, Milford, Conn. Stitch-down shoe structure. 2,165,927; July 11.
Hoffman, Allan C., Milldale, assignor to Scovill Manufacturing Company, Waterbury, Conn. Lipstick container. 2,165,632; July 11.
Hofmann, Gerhardt. (See Haag, W., Hofmann, and Zorn.)
Hofmann, Gerhard, Leuna, W. Haag, Mannheim, and H. Zorn, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of lubricating oils. 2,165,373; July 11.
Höhndorf, Wilhelm, Hanover-Waldheim, Germany. Testing instrument for vehicles. 2,165,894; July 11.
Hoile, Harold H. (See Milne, William M., assignor.)
Holden, N. E. (See Hardacre, R. W., Holden, and Shaw.)
Holm, John M., Pollokshields, Glasgow, Scotland, assignor to Imperial Chemical Industries Limited. Cartridge for the generation of gas pressures. 2,165,263; July 11.
Holmes, Foster, Normandy, and V. G. Klein, St. Louis, assignors to Lincoln Engineering Company, St. Louis, Mo. Line-retrieving apparatus. 2,166,054; July 11.
Holmes, Lawrence A., Whittier, Calif. Apparatus for treating oil. 2,165,703; July 11.
Holmes, Ralph S., Haddonfield, N. J., assignor to Radio Corporation of America. Television apparatus. 2,165,794; July 11.
Holstrom, John G., assignor to Kenworth Motor Truck Corporation, Seattle, Wash. Radiation of heat from center-mounted horizontal engines. 2,165,795; July 11.
Holter, Cameron B., and E. L. Stewart, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y. Foam stabilizing agent. 2,166,008; July 11.
Holtzclaw, John B. (See Zimmer, J. C., and Holtzclaw.)
Hönel, Herbert, Vienna, Austria, assignor to H. Reichhold, Detroit, Mich., doing business as Reichhold Chemicals. Reaction products of a meta-substituted phenol and formaldehyde. 2,165,380; July 11.
Hood, Charles E., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 2,165,262; July 11.
Hood, Joseph B., Hollywood, Calif. Sign. 2,165,704; July 11.
Hoover Company, The. (See Studer, C. W., Roshong, and Miller, assignors.)
Hornack, John, Cleveland, assignor of one-half to M. Kacur, Lorain, Ohio. Motion transmitting and control apparatus. 2,165,754; July 11.
Hornbostel, Lloyd, assignor to Beloit Iron Works, Beloit, Wis. Paper machine suction slice. 2,165,549; July 11.
Hosack, Francis A., Rye, N. Y. Calculating machine. 2,166,066; July 11.
Hosack, Francis A., Rye, N. Y. Transfer mechanism. 2,166,067; July 11.
Houck, Robert C. (See Sheppard, S. E., and Houck.)
Houser, Miles S., Bluffton, Ind. Flow meter. 2,165,705; July 11.
Householder, Owen, et al. (See Trojan, José, assignor.)
Hovgard, Paul E., Kenmore, N. Y., assignor to Curtiss-Wright Corporation. Aircraft wing arrangement. 2,165,482; July 11.
Hovland, Henry, Williston Park, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,165,855; July 11.
Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Photographic camera. 2,165,706; July 11.
Howenstine, James A., assignor to Neon Products, Inc., Lima, Ohio. Illuminated sign. 2,165,550; July 11.
Howey, Walter, Demarest, N. J. Introducing signals to and receiving signals from telephone circuits. 2,165,856; July 11.
Hubbard, David E. (See Hubbard, George W., and D. E.)
Hubbard, George W., LaSalle, and D. E. Hubbard, Brighton, Colo. Jar lifter. 2,165,264; July 11.
Hubert, Franz E., Dessau-Ziebigk, E. Heisenberg, Leipzig, and A. Steindorff and L. Orthner, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Imparting hydrophobic properties to cellulose fibers. 2,165,265; July 11.
Hudson, Edwin B., and R. S. Burns, assignors to The American Rolling Mill Company, Middletown, Ohio. Needle roll cold reduction mill. 2,165,266; July 11.
Huggins, Merlon J., Upper Saddle River, N. J. Radio apparatus. 2,165,483; July 11.
Hughes, Ralph C., assignor to Reynolds Gas Regulator Co., Anderson, Ind. Pressure actuated valve. 2,165,267; July 11.
Hughey, Carter J. (See Fairbanks, H. N., and Hughey.)
Huismann, Johann, Leverkusen-Wiesdorf, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Condensation product having an amidelike structure. 2,165,484; July 11.
Humbert, Reuben L., and E. R. Witzel, Kohler, Wis. Prime mover dynamo plant. 2,165,969; July 11.
Hume, Horace D., and J. E. Love, Garfield, Wash. Rotary reel. 2,165,381; July 11.
Hume, Horace D., and J. E. Love, Garfield, Wash. Adjustable mount. 2,165,382; July 11.
Humeston, Frederick L., Hamden, Conn., assignor, by mesne assignments, to Western Cartridge Company. Telescope mount for firearms. 2,165,796; July 11.
Humphrey, Bingham J. (See Dunbrook, R. F., and Humphrey.)
Hunt, John D., Alexandria Bay, N. Y. Boat. 2,165,633; July 11.
Hunt, John L., Detroit, Mich. Toy airplane. 2,166,068; July 11.
I. G. Farbenindustrie Aktiengesellschaft. (See Beck, A., and Bohner, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Brunner, Arnold, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Daimler, K., Paquin, and Riedelsberger, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Haag, W., Hofmann, and Zorn, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Hofmann, G., Haag, and Zorn, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Hubert, F. E., Heisenberg, Steindorff, and Orthner, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Huismann, Johann, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Mueller-Cunradi, M., and Pieroh, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, Willi, assignor.)
Ihagee Kamerawerk Steenbergen & Co. (See Nuchterlein, Karl, assignor.)
Ilg Electric Ventilating Company. (See Pfautsch, Raymond V., assignor.)
Imperial Chemical Industries Limited. (See Burrage, Leslie J., assignor.)

Imperial Chemical Industries Limited. (See Dunnar, Charles, assignor.)
Imperial Chemical Industries Limited. (See Hardacre, R. W., Holden, and Shaw, assignors.)
Imperial Chemical Industries Limited. (See Holm, John M., assignor.)
Indge, Herbert S., Westboro, assignor to Norton Company, Worcester, Mass. Crankshaft lapping machine. 2,166,009; July 11.
Industrial Rayon Corporation. (See Helm, Emerson B., assignor.)
Ingersoll-Rand Company. (See Hart, Dudley W., assignor.)
Insley Manufacturing Corporation. (See Rasmussen, Alvin C., assignor.)
International Business Machines Corporation. (See Bryce, J. W., and Dickinson, assignors.)
International Business Machines Corporation. (See Cunningham, James M., assignor.)
International Business Machines Corporation. (See Doty, Charles R., assignor.)
International Business Machines Corporation. (See Fitch, C. J., and Schneider, assignors.)
International Business Machines Corporation. (See Fuller, Frederick L., assignor.)
International Business Machines Corporation. (See George, Harry O., assignor.)
International Business Machines Corporation. (See Gifford, Emerson W., assignor.)
International Business Machines Corporation. (See Gray, Alvin E., assignor.)
International Business Machines Corporation. (See Herman, Louis J., assignor.)
International Business Machines Corporation. (See Keen, Harold H., assignor.)
International Business Machines Corporation. (See Kimball, Philip W., assignor.)
International Business Machines Corporation. (See Kölm, Ulrich, assignor.)
International Business Machines Corporation. (See Mills, Albert W., assignor.)
International Business Machines Corporation. (See Parks, Robert E., assignor.)
International Business Machines Corporation. (See Petz, John L., assignor.)
International Business Machines Corporation. (See Rabenda, Edward J., assignor.)
International Business Machines Corporation. (See Wilkerson, Victor O., assignor.)
International Cigar Machinery Corporation. (See Bronander, Wilhelm B., assignor.)
Iverson, Christian, Weston, Iowa. Lawn mower. 2,165,551; July 11.
Jackman, Elmer F., Elyria, assignor to The Ridge Tool Company of Elyria, Ohio, North Ridgeville, Ohio. Drill guide. 2,165,485; July 11.
Jacobowitz, Simon, Berlin-Charlottenburg, assignor to G. Snoek, Berlin, Germany. Solidified normally liquid substances. 2,165,857; July 11.
Jacobs, Charles T., New Providence Township, Union County, assignor to Miessner Inventions, Inc., Millburn, N. J. Apparatus for the production of music. 2,165,707; July 11.
Jacobsens, N., Elektriske Varksted A/S. (See Engholm, T. H., and Heines, assignors.)
Jacobson, Harry. (See Vaccaro, George, assignor.)
Jahn, Carl A. H., assignor to Johnson Matthey & Company, Limited, Hatton Garden, London County, England. Resistance wire or the like. 2,166,055; July 11.
Jaspers, Bernhard, Mannheim-Kafertal, Germany. Electric heating system operating by heat radiation. 2,165,970; July 11.
Jayne, John K. (See Page, F. L., and Jayne.)
Jeffrey Manufacturing Company, The. (See Mitchell, Lewis E., assignor.)
Jend, Henry W. G., Grosse Pointe Park, Mich. Fishhook cover. 2,165,708; July 11.
Jepson, Ivar, assignor to Chicago Flexible Shaft Company, Chicago, Ill. Electric motor. 2,165,858; July 11.
Jetter, R. and S., Co. (See Sparling, Frank K., W. D., and A. E., assignors.)
Jewel, Paul W., and W. E. Bradley, assignors to Union Oil Company of California, Los Angeles, Calif. Insecticide and its preparation. 2,165,486; July 11.
Joesting, Frederick D. (See Kronmiller, C. G., and Joesting.)
Johns-Manville Corporation. (See Rembert, Ernest W., assignor.)
Johnson, Alfred, Summit, and M. M. Brandegee, Plainfield, N. J. Manufacture of high calorific value gas. 2,166,094; July 11.
Johnson, Anthon G., Des Moines, Iowa. Permanent waving apparatus. 2,165,552; July 11.
Johnson, George A., and E. H. Lehman, assignors to W. H. Miner, Inc., Chicago, Ill. Shock absorbing mechanism. 2,165,383; July 11.
Johnson, George W., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Garment cleaning system. 2,165,487; July 11.
Johnson Laboratories, Inc. (See Polydoroff, Wladimir J., assignor.)
Johnson Matthey & Company. (See Jahn, Carl A. H., assignor.)
Johnson, Victor S. (See White, Sidney Y., assignor.)
Johnston, John, Short Hills, N. J., assignor to United States Steel Corporation, New York, N. Y. Apparatus for cooling rails. 2,166,056; July 11.
Jones, Frank D., assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa. Power lift implement. 2,165,859; July 11.
Jones, Louis C., Greenwich, R. B. Barnes, Stamford, and G. P. Ham, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y. Photographic developer. 2,165,797; July 11.
Joy, Joseph F., Claremont, N. H., assignor to Sullivan Machinery Company. Hoisting mechanism. 2,165,895; July 11.
Joy Manufacturing Company. (See Arentzen, Einar M., assignor.)
Jung, Oscar H., and P. E. Heffelfinger, Milwaukee, Wis. Offer. 2,165,634; July 11.
Kacur, Michael. (See Hornack, John, assignor.)
Kali-Chemie Aktiengesellschaft. (See Rüsberg, Friedrich, assignor.)
Kamborian, Jacob S., Newton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Trimming machine. 2,165,384; July 11.
Kane, Catherine B., Greenwich, Conn. Sanitary bed. 2,165,385; July 11.
Kannenberg, Walter F., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,165,798; July 11.
Karsel, William, assignor to Stewart-Warner Corporation, Chicago, Ill. Automobile heater. 2,165,269; July 11.
Kauffmann, Hans O., assignor to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y. Cotton bleaching. 2,165,270; July 11.
Kautter, Wolfgang. (See Gothe, A., Buschbeck, and Kautter.)
Keen, Harold H., Letchworth, England, assignor to International Business Machines Corporation, New York, N. Y. Multiplying machine. 2,165,271; July 11.
Keighley, James O., Gary, Ind. Treating cold-rolled metals. 2,165,655; July 11.
Keller, Leo. (See Goodrum, C. L., Hinrichsen, and Keller.)
Keller-Whilldin Pottery Company, The. (See Keller, William H., assignor.)
Keller, William H., Norristown, assignor to The Keller-Whilldin Pottery Company, North Wales, Pa. Knockout. 2,166,057; July 11.
Kelley, Walter F. (See Lasker, W. W., and Kelley.)
Kelsey-Hayes Wheel Company. (See Le Jeune, Frank H., assignor.)
Kenworth Motor Truck Corporation. (See Holmstrom, John G., assignor.)
Kermer, Martin J., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y. Evaporator. 2,165,272; July 11.
Kessenich, Gregory J., Madison, Wis. Shock absorbing device. 2,165,273; July 11.
Kessenich, Gregory J., Madison, Wis. Shock absorbing device. 2,165,274; July 11.
Ketner, Burt, et al. (See King, Clyde H., assignor.)
Killian, Thomas J., assignor to Barkon Tube Lighting Corporation, Seattle, Wash. Pressure control device for luminous tubes. 2,165,709; July 11.
Killmeyer, Chester A., Stratford, assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Hand oiler for testing visible contents. 2,165,860; July 11.
Kimball, A., Company. (See Weimont, Joseph, assignor.)
Kimball, Charles N., East Orange, N. J., and E. W. Wilby, Staten Island, N. Y., assignors to Radio Corporation of America. Band width indicator circuit. 2,165,799; July 11.
Kimball, Philip W., Ashland, Mass., assignor to International Business Machines Corporation, New York, N. Y. Computing scale. 2,165,275; July 11.
Kimball, Ranch S., Salt Lake City, Utah. Advertising and warning sign. 2,165,276; July 11.
King, Clyde H., assignor of one-fourth to R. M. Denton and B. Ketner, Sevierville, Tenn., one-fourth to W. R. Stuebing, Cincinnati, Ohio, and one-fourth to S. J. Milligan, Greeneville, Tenn. Closure fastener. 2,165,896; July 11.
Kinney, Charles S. (See Engel, K., and Kinney.)
Kirk, Ralph L., Bellevue, assignor to Railway and Industrial Engineering Company, South Greensburg, Pa. Sequence operation control and interlock system. 2,166,058; July 11.
Kirk, Ralph L., Bellevue, assignor to Railway and Industrial Engineering Company, South Greensburg, Pa. Lock for interlock systems. 2,166,059; July 11.
Kirk, Ralph L., Bellevue, assignor to Railway and Industrial Engineering Company, South Greensburg, Pa. Interlock system. 2,166,061; July 11.
Kirk, Ralph L., Pittsburgh, assignor to Railway and Industrial Engineering Company, Greensburg, Pa. Lock. 2,166,060; July 11.
Klein, Victor G. (See Holmes, F., and Klein.)
Kleinert, I. B., Rubber Company. (See Eisenberg, Le Roy, assignor.)
Klimis, Paul, New York, N. Y. Control device for heating systems. 2,165,488; July 11.
Kloid, Henry W., and O. F. Schulz, assignors to Schulz Brothers Company, Chicago, Ill. Printing telegraph system. 2,165,971; July 11.

Klomp, Alfred W., Detroit, Mich., assignor, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y. Lapping the curved surface of gears and the like. 2,165,386; July 11.
Knight, William H., Jr., Shaker Heights, assignor to The Cleveland Gas Meter Company, Cleveland, Ohio. Gas meter. 2,165,387; July 11.
Koch, Henry, assignor to Dictograph Products Company, Inc., Jamaica, N. Y. Bone conduction audiphone. 2,165,710; July 11.
Koch, Herman, and J. L. Burke, Weehawken, assignors to Eldorado Escalator Co., Union City, N. J. Sanitary drinking cup. 2,165,277; July 11.
Koch, John, Jr., Cheviot, Ohio. Trouble and trunk light. 2,166,062; July 11.
Koch, Winfield R., Merchantville, N. J., assignor to Radio Corporation of America. Direction control device. 2,165,800; July 11.
"Koh-i-noor" Tuzkarna L. & C. Hardtmuth, Ces. (See Zückert, Richard, assignor.)
Kohnle, Frederick, assignor to The Monarch Marking System Company, Dayton, Ohio. Hand price marking appliance. 2,166,069; July 11.
Kokay, Stephen, assignor to Ditto, Incorporated, Chicago, Ill. Duplicating machine. 2,165,972; July 11.
Kölm, Ulrich, Berlin-Lankwitz, Germany, assignor to International Business Machines Corporation, New York, N. Y. Graph printing tabulator. 2,165,278; July 11.
Kotrbaty, Guy F., Chestnut Hill, Pa. Building construction. 2,166,095; July 11.
Kotrbaty, Guy F., Chestnut Hill, Pa. Building construction. 2,166,096; July 11.
Kotrbaty, Guy F., Chestnut Hill, Pa. Building construction. 2,166,097; July 11.
Kotrbaty, Guy F., Chestnut Hill, assignor to Ferrocon Corporation, Bryn Mawr, Pa. Angular structural unit and assembly. 2,166,098; July 11.
Kranz, Frederick H., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Gas liquid contact apparatus and method. 2,165,489; July 11.
Kranz, Frederick H., Buffalo, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Gas absorption. 2,165,490; July 11.
Krause, August L. (See Mathewson, M. I., and Krause.)
Krause, Daniel E., and C. H. Lorig, assignors to Battelle Memorial Institute, Columbus, Ohio. Alloy steel. 2,165,553; July 11.
Krauter, Edwin W., Chicago, Ill. Lettering. 2,165,861; July 11.
Krebs, William J., et al. (See Foster, James D., assignor.)
Kreidl, Ignaz, Vienna, Austria, assignor to the firm Vereinigte Chemische Fabriken Kreidl, Heller & Co. Nfg., Vienna, Germany, formerly Austria. White opaque vitreous enamel frit. 2,165,554; July 11.
Kreidler, Alfred, Stuttgart, Germany. Extrusion press. 2,165,711; July 11.
Krimsky, Emanuel, Brooklyn, N. Y. Phorometric stereoscope. 2,166,063; July 11.
Krischer, Irving M., Brooklyn, N. Y. Buckle for belts. 2,165,928; July 11.
Kroeger, Gustav H., Herkimer, assignor to Remington Rand Inc., Buffalo, N. Y. Card punching mechanism. 2,165,388; July 11.
Kroier, Waldemar, Jacksonville, Fla. Lap joint. 2,166,064; July 11.
Kronmiller, Carl G., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Switch. 2,165,801; July 11.
Kronmiller, Carl G., and F. D. Joesting, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control device. 2,165,555; July 11.
Krook, Carl G., Kingman, Ariz. License card holder. 2,165,389; July 11.
Kunze, Alfred. (See Runge, W., and Kunze.)
La Chapelle, Euclid I., Brockton, Mass. Shoe insole. 2,165,494; July 11.
Lakeland Foundation. (See Gruskin, Benjamin, assignor.)
La Maida, Thomas, University Heights, Ohio. Suspensory garment. 2,166,010; July 11.
La Maida, Thomas, University Heights, Ohio. Detachable garment collar. 2,166,011; July 11.
La Maida, Thomas, University Heights, Ohio. Garment. 2,166,012; July 11.
Lambert, Howard J., and E. R. Merifield, Los Angeles, Calif., assignor to said H. J. Lambert. Orchard heater. 2,165,279; July 11.
Lamkin, William L., Porterville, Calif. Portable heater. 2,165,390; July 11.
Land, Edwin H., Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del. Light-polarizing body. 2,165,973; July 11.
Land, Edwin H., Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del. Display device employing polarized light. 2,165,974; July 11.
Lannan, George M., Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Method and apparatus for forming a fibrous mat. 2,165,280; July 11.
Lasker, William W., Brooklyn, and W. F. Kelley, Whitestone, assignors to Remington Rand Inc., Buffalo, N. Y. Accounting system and machine. 2,165,556; July 11.
Lau, Harry J., Chicago, Ill. Mop wringer. 2,165,862; July 11.
Lawrence, Richard B., Detroit, Mich. Cooking device. 2,165,712; July 11.
Lawson, George S. (See Snyder, G., and Lawson.)
Lawson, Robert H., and W. L. Smith, Jr., Pawtucket, assignors to Hemphill Company, Central Falls, R. I. Stop motion. 2,165,975; July 11.
Lee Metal Products Company. (See Tay, George H., assignor.)
Lehman, Edward H. (See Johnson, G. A., and Lehman.)
Lehman, Meyer, New York, N. Y. Combined automatic phonograph and radio. 2,165,713; July 11.
Leitch, John D., Shaker Heights, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Control of alternating current motors. 2,165,491; July 11.
Le Jeune, Frank H., assignor to Kelsey-Hays Wheel Company, Detroit, Mich. Forming a vehicle wheel. 2,165,863; July 11.
Lemmon, George N., Homewood, assignor to Southern States Equipment Corporation, Birmingham, Ala. Electric fuse. 2,165,636; July 11.
Lentz, Hugo, Berlin, Germany. Idle-running and starting device for poppet valve geared steam locomotives. 2,165,755; July 11.
Lentz, John A., Phoenix, Ariz. Instrument sharpener. 2,165,929; July 11.
Le Val Filter Company. (See Levy, Jerome B., assignor.)
Levin, Nyman. (See Rust, N. M., and Levin.)
Levine, Morris, and M. Branfeld, New York, N. Y. Modern store equipment. 2,165,930; July 11.
Levison, Samuel, Chicago, Ill. Treatment of fruits and vegetables. 2,165,557; July 11.
Levy, Jerome B., assignor to Le Val Filter Company, Inc., Chicago, Ill. Hollow disk filter aid retaining medium. 2,165,931; July 11.
Lewis, Harrison, San Francisco, Calif. Hair trimmer. 2,165,391; July 11.
Lewis, William B. (See Blau, L. W., and Lewis.)
Light, David M., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake gear safety guard. 2,165,864; July 11.
Liley, Harold A., Detroit, Mich. Accelerator control for motor vehicles. 2,165,897; July 11.
Lillenfeld, Leon, Vienna, Austria. Treatment of textile material and product thereof. 2,165,392; July 11.
Lillenfeld, Leon, Vienna, Austria. Decorated material and making same. 2,165,393; July 11.
Linchitz, Samuel E., New York, N. Y. Denture. 2,165,558; July 11.
Lincoln Engineering Company. (See Holmes, F., and Klein, assignors.)
Lindner, Herbert. (See Möller, Georg, assignor.)
Line Material Company. (See Earle, R. H., and Steinmayer, assignors.)
Lintern, William, Cleveland, Ohio, assignor, by mesne assignments, to Evans Products Company, Detroit, Mich. Vehicle body ventilation system and apparatus. 2,165,559; July 11.
Lippert, Victor A., assignor of one-half to R. D. Wernet, Canton, Ohio. Detachable and replaceable heel. 2,165,281; July 11.
Little, John H., assignor to General Motors Corporation, Detroit, Mich. Roof speaker mounting. 2,165,637; July 11.
Littlefield, Verne D., Beverly Hills, Calif., assignor to Armour and Company, Chicago, Ill. Egg white product and preparing the same. 2,166,070; July 11.
Lloyd, Eldon E., Maryville, Mo. Traction tire chain. 2,165,865; July 11.
Logan-Long Company, The. (See Logan, Paul, assignor.)
Logan, Paul, assignor to The Logan-Long Company, Chicago, Ill. Roofing. 2,165,866; July 11.
Loggins, Reuben L., Blytheville, Ark. Double beading and forming machine. 2,165,282; July 11.
Lohrey, Friedrich, Nuremberg, Germany. Device for printing designs on walls, surfaces, or the like. 2,165,867; July 11.
Long, Walter H. (See Dunne, H. B., and Long.)
Longtin, Arthur J., Seattle, Wash. Sawdust-burning furnace. 2,165,802; July 11.
Lorentzen, Hans K., Montclair, N. J. Venetian blind actuating mechanism. 2,165,492; July 11.
Lorig, Clarence H. (See Krause, D. E., and Lorig.)
Love, James E. (See Hume, H. D., and Love.)
Lubs, Herbert A., Wilmington, Del., and G. C. Strouse, East Aurora, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of sulphur colors. 2,165,493; July 11.
Lucas, Joseph, Limited. (See Massey-Allen, Alfred, assignor.)
Lund, Nels B. (See Fischer, A. J., and Lund.)
Luther, Martin P., Chicago, Ill. Insect exterminator. 2,165,560; July 11.
Lyness, Horatio S., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Cutting die. 2,165,394; July 11.
MacChesney, Chester M., assignor to Acme Steel Company, Chicago, Ill. Conveyer belt. 2,165,283; July 11.
MacChesney, Chester M., Chicago, and A. B. Wilson, Evanston, assignors to Acme Steel Company, Chicago, Ill. Conveyer belt. 2,165,395; July 11.

Mack, Alfred, and M. W. Mack, Framingham, Mass. Emergency lighting kit. 2,165,562; July 11.
Mack, Mary W. (See Mack, Alfred and M. W.)
Madorsky, Samuel L., Washington, D. C. Producing electrolytic magnesium. 2,165,284; July 11.
Malhiot, Clarence J. (See Milmoe, M. J., and Malhiot.)
Mallory, P. R., & Co. (See Hensel, F. R., and Emmert, assignors.)
Maloff, Ioury G., Philadelphia, Pa., assignor to Radio Corporation of America. Cathode ray deflecting device. 2,165,803; July 11.
Mandl, Arthur, Sheffield, England, assignor to General Electric Company. Excitation system for dynamo-electric machines. 2,165,976; July 11.
Mandl, Siegmund, Milwaukee County, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Spring perch and brake bracket remover. 2,165,285; July 11.
Manley, Robert E., Beacon, assignor to The Texas Company, New York, N. Y. Refining hydrocarbon oil. 2,165,638; July 11.
Mansfield, Judson H., assignor to Greenlee Bros. & Co., Rockford, Ill. Tapping machine. 2,165,396; July 11.
Marasso, Fred, assignor to Union Machinery Company, Joliet, Ill. Rounder. 2,165,495; July 11.
Marcus, Harry, Minneapolis, Minn. Combination shorts and sanitary belt. 2,165,561; July 11.
Mariani, Frank N., New York, N. Y. Electric lamp. 2,165,563; July 11.
Martin, Charles C., Cleveland Heights, assignor to David Round & Son, Garfield Heights, Ohio. Ratchet mechanism for winches. 2,165,756; July 11.
Martin, C. M., et al. (See Tilly, James O., assignor.)
Martin, Derr R., Detroit, Mich. Fertilizing nozzle. 2,165,868; July 11.
Martin, Ernest A., New York, N. Y. Sanitary dispenser. 2,165,933; July 11.
Martin, Glenn L., Company, The. (See Dart, Edward W., assignor.)
Marx, Robert D., Brooklyn, N. Y. Valve. 2,165,639; July 11.
Marx, Robert D., Brooklyn, N. Y. Tank truck valve. 2,165,640; July 11.
Maschwitz, Percy A., Toledo, Ohio, assignor to The Pure Oil Company, Chicago, Ill. Method and apparatus for producing motor fuel. 2,165,804; July 11.
Mason, John E., Denver, Colo., and F. H. Ballou, Vancouver, British Columbia, Canada, assignors to The Stearns-Roger Manufacturing Company, Denver, Colo. Control for stream-conveyed material. 2,165,397; July 11.
Massey-Allen, Alfred, Watford, assignor to Joseph Lucas Limited, Birmingham, England. Spark ignition distributor for internal combustion engines. 2,165,196; July 11.
Mathewson, Maxwell L., and A. L. Krause, Providence, R. I., assignors to Brown and Sharpe Manufacturing Company. Grinding machine. 2,165,898; July 11.
Mathiesen, Peter, Lyndhurst, N. J. Bag. 2,165,869; July 11.
Matson, Walter F., Malden, Mass. Illumination indicator or telltale. 2,165,899; July 11.
Matthews, Howard W. (See Berger, E. J., and Matthews.)
Mattlage, Walter F. H., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sheet material. 2,165,286; July 11.
Mattox, Ralph F., Dundalk, Md. Merchandise container and apparatus for transferring the same. 2,165,641; July 11.
Mavrogenis, Aristote, Camden, N. J., assignor to Radio Corporation of America. Radio circuits. 2,165,714; July 11.
Maxwell, Thomas, Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Broaching device. 2,165,977; July 11.
Mayer, Joseph E., assignor, by mesne assignments, to Specialty Merchandisers, Inc., Chicago, Ill. Spoon. 2,165,642; July 11.
Mayhew, Clarence P., and G. P. Mayhew, Duluth, Minn. Hydraulic brake. 2,165,564; July 11.
Mayhew, George P. (See Mayhew, Clarence P., and G. P.)
Mazzanobile, Michael, New York, N. Y. Fluid dispenser. 2,165,398; July 11.
McBride, Lewis M., Corozal, Canal Zone. Disintegration, dispersion, stabilization, and collection of solid materials. 2,165,287; July 11.
McCaleb, Albert G. (See Allen, Hugh E., assignor.)
McCall, Ada M. (See McCall, Thaddeus D., and A. M.)
McCall, Thaddeus D., and A. M. McCall, Imperial, Calif. Quilting frame. 2,165,496; July 11.
McCann, John J., Lowell, and J. Stuer, Lawrence, Mass. Feeler and protector mechanism for single pick automatic looms. 2,166,071; July 11.
McConnell, Guy E., Los Angeles, Calif. Gravity liquid measuring device. 2,165,565; July 11.
McCord, Andrew T. (See Washburn, W. F., Dahlstorm, and McCord.)
McCormick, Charles E., Dearborn, Mich. Trim molding. 2,165,399; July 11.
McGarry, Lola M., Flint, Mich. Burr cleaner. 2,165,643; July 11.
McGinnis, Orris. (See Wheeler, H. H., and McGinnis.)
McGuire, Frank A., Fulton, Kans. Reflector. 2,165,900; July 11.
McKeever, Francis J. (See Farrell, Michael J., assignor.)
McKeon, Thomas J. (See Burke, A. K., and McKeon.)
McLaughlin, Hugh E., New York, N. Y. Propelling and lifting mechanism. 2,165,757; July 11.
McLindon, William F., Arlington, Va. Shovel. 2,166,013; July 11.
McManeus, Bennett H., assignor of one-half to G. T. Whitehouse, Sebring, Fla. Self-starter for engines. 2,166,014; July 11.
McNeal, Donald L. (See Hewitt, E. E., and McNeal.)
McQueen, David M. (See Harmon J., and McQueen.)
McQueen, David M., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Production of leather. 2,165,870; July 11.
Meakin, Edgar T., San Francisco, Calif. Apparatus and method for grinding and polishing bore holes. 2,165,566; July 11.
Mealey, Robert C., Minneapolis, Minn., assignor of one-third to J. A. Ronning, and one-third to B. E. Ronning. Variable speed transmission mechanism. 2,165,934; July 11.
Menzel, Carl A., Homewood, Ill. Autoclave 2,165,935; July 11.
Merifield, Ellis R. (See Lambert, H. J. and Merifield.)
Merk, George S., Watertown, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Handbag structure. 2,165,901; July 11.
Merrill, Albert D., and T. L. Dunbar, assignors to Chemipulp Process Inc., Watertown, N. Y. Absorbing and condensing digestion gases and vapors. 2,165,644; July 11.
Metal Display Equipment Company. (See Witt, George A., assignor.)
Metropolitan Body Company, The. (See Carlson, Philip, assignor.)
Meyers, George C., Michigan City, Ind. Vehicle supporting deck. 2,165,400; July 11.
Mickelsen, Antone O., Portland, Oreg. Sterilizer. 2,165,497; July 11.
Miessner Inventions, Inc. (See Jacobs, Charles T., assignor.)
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic shutter and pretimer. 2,165,401; July 11.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic camera. 2,165,402; July 11.
Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Control mechanism for focal plane shutters. 2,165,403; July 11.
Mikkelson, Berent A., Seattle, Wash. Two-in-one weed puller and hoe. 2,166,015; July 11.
Mille, Eustache. (See Arkin, J., and Mille.)
Miller, Edward L., Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y. Mechanism for impregnating articles with fluidic material. 2,165,936; July 11.
Miller, Frank E., Swissvale, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake mechanism. 2,165,978; July 11.
Miller, Marie. (See Studer, C. W., Roshong, and Miller.)
Miller, Oran E. (See Capstaff, J. G., and Miller.)
Milligan, S. J., et al. (See King, Clyde H., assignor.)
Mills, Albert W., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Tabulating machine. 2,165,288; July 11.
Milmoe, Michael J., Glen Ellyn, and C. J. Malhiot, Oak Park, assignors to F. B. Redington Co., Chicago, Ill. Machine for making wrappers. 2,165,289; July 11.
Milne, William M., Jersey City, N. J., assignor to Harold H. Holle, Brooklyn, N. Y. Can opener. 2,165,715; July 11.
Milson, John R., Mansfield, Mass. Treating vegetable fibers. 2,165,758; July 11.
Milwaukee Saw Trimmer Corporation. (See Billker, F. W., and Ball, assignors.)
Miner, W. H., Inc. (See Heitner, William A., assignor.)
Miner, W. H., Inc. (See Johnson, G. A., and Lehman, assignors.)
Mining Engineering Company, Limited, The. (See Nyborg, Tage G., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kronmiller, Carl G., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kronmiller, C. G., and Joesting, assignors.)
Mitchell, Chester F., Wheaton, assignor to H. D. Electric Company, Chicago, Ill. Transformer for making electrical measurements. 2,165,200; July 11.
Mitchell, Lewis E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,165,404; July 11.
Mitchell, Rowland R., assignor to Athol Manufacturing Company, Athol, Mass. Making pyroxylin coated materials. 2,165,291; July 11.
Mixing Equipment Co. (See Bissell, Everett S., assignor.)
Moffat, Albert S., Watertown, assignor to United Water Cooler Service, Inc., Cambridge, Mass. Movable holding device for containers. 2,165,567; July 11.
Moffatt, Frank R., et al. (See Tilly, James O., assignor.)
Moise, Bolton C., Pittsburgh, and J. Rae, Ellwood City, Pa., assignors to National Tube Company. Finishing and severing tool. 2,165,646; July 11,
Mole-Richardson Co. (See Coats, F. C., and Fowler, assignors.)
Möller, Georg, Berlin-Neukoelln, assignor to H. Lindner, Berlin-Wittenau, Germany. Centering means for drilling machine spindles. 2,166,101; July 11.

Molleson, Isabell C., Baldwin, N. Y. Hair dressing appliance. 2,165,716; July 11.
Monarch Marking System Company, The. (See Kohnle, Frederick, assignor.)
Moody, Gordon, Amherst, Mass. Illuminated speedometer. 2,165,498; July 11.
Morgan, Raymond B., Honiton, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Glow discharge device. 2,165,805; July 11.
Morhard, Josef. (See Rosenfeld, H., and Morhard.)
Morrison, Charles C. (See Conway, C. C., Jr., and Morrison.)
Morrison, John R., Hampton, Va. Tablet for typewriting machines. 2,166,016; July 11.
Morse, Clarence W. (See Morse, Lulan S. and C. W.)
Morse, Lulan S. and C. W., Santa Monica, Calif. Venetian blind. 2,165,292; July 11.
Morton, George A., Haddon Heights, and L. E. Flory, Oaklyn, N. J., assignors to Radio Corporation of America. Electric discharge device. 2,165,806; July 11.
Moss, William H., London, England, assignor to Celanese Corporation of America. Printing of artificial foils, films, and similar products. 2,165,499; July 11.
Mueller-Cunradi, Martin, and K. Pieroh, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of alkylidene diethers or etheresters. 2,165,962; July 11.
Muench, Frank J., Newark, N. J. Mixing device. 2,165,568; July 11.
Muirhead, Donald M., Duxbury, Mass. Shielding structure against insects. 2,165,500; July 11.
Mueller, Rudolph G., Irvington, N. J. Hat brim stretching mechanism. 2,165,717; July 11.
Mummé, Ernest A., Minneapolis, Minn. Sausage-linking machine. 2,165,673; July 11.
Mun, Henry C., San Francisco, Calif. Noodle making machine. 2,165,718; July 11.
Münnich, Richard, and H. Blechschmidt, Dresden, Germany. Apparatus for reproducing rotary motion. 2,165,719; July 11.
Munson, Willard T., Dunmore, assignor to Collins Supply & Equipment Company, Scranton, Pa. Thread cleaner. 2,165,405; July 11.
Murphree, Eger V., and E. D. Reeves, Baton Rouge, La., assignors to Standard Oil Development Company. Separation of mixtures of liquid and solid constituents. 2,165,807; July 11.
Murphy, Daniel, New Castle, Pa. Pump rotor. 2,165,808; July 11.
Murray, Alexander, assignor to Eastman Kodak Company, Rochester, N. Y. Color correction. 2,165,407; July 11.
Murray Corporation of America, The. (See Shanahan, Frank M., assignor.)
Murray Corp. of America, The. (See Weston, W. Calvin, assignor.)
Mussey, William H., Chicago, Ill. Deck supporting device. 2,165,406; July 11.
Myers, Edward R., Ottawa, Ontario, Canada, assignor to Remington, Rand Inc., Buffalo, N. Y. Tabulating machine. 2,165,408; July 11.
Myers, Philip B., Scarsdale, assignor to Sardik Incorporated, Jersey City, N. J. Treating pectin-containing raw material. 2,165,902; July 11.
N. V. Industrieele Exploitatie Maatschappij. (See Bertram, Simon H., assignor.)
Naamlooze Vennootschap: Hollandsche Draaden-en Kabelfabriek. (See van Hoffen, Hendrik A. M., assignor.)
Nadeau, Gale F., and W. E. Fisher, assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Separating and recovering aliphatic acids. 2,165,293; July 11.
Nagel, August, Stuttgart, Germany, assignor to Eastman Kodak Company, Rochester, N. Y. Focusing mechanism for cameras. 2,165,409; July 11.
Nagel, George E., Columbus, Ohio. Diffuser plate container for sludge treatment. 2,166,017; July 11.
Nancarrow, George, assignor of one-tenth to D. Downey, Toronto, Ontario, Canada. Race starting device. 2,165,937; July 11.
Nash-Kelvinator Corporation. (See Doeg, Ralph W., assignor.)
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
National Aniline & Chemical Company. (See Kranz, Frederick H., assignor.)
National Brush Company. (See Baumgartner, John G., assignor.)
National Cash Register Company, The. (See Arnold, Charles H., assignor.)
National Lead Company. (See Washburn, W. F., Dahlstrom, and McCord, assignors.)
National Machinery Company, The. (See Friedman, John H., assignor.)
National Malleable and Steel Castings Company. (See Bazeley, Arthur J., assignor.)
National Pneumatic Company. (See Parvin, Edward G., assignor.)
National Tube Company. (See Cook, H. D., and Scharff, assignors.)
National Tube Company. (See Moise, B. C., and Rae, assignors.)
National Tube Company. (See Parsons, James G., assignor.)
Neon Products, Inc. (See Howenstine, James A., assignor.)
Neveu, Anselme. (See Guillemin Tarayre, J., and Neveu.)
New Process Rayon, Inc. (See Traut, George T., assignor.)
New York Air Brake Company, The. (See Campbell, C. A., and Safford, assignors.)
Nicholson, Jacob P., Chicago, Ill. Air conditioning apparatus. 2,165,979; July 11.
Noble, William H., assignor to Pennsylvania Pump and Compressor Company, Easton, Pa. Unloader for compressors. 2,165,938; July 11.
Nordmark, Henry P., assignor to American Seating Company, Grand Rapids, Mich. Reinforced metal tube. 2,165,294; July 11.
Norland, Torvald, Stavanger, Norway. Lid for hermetically sealed cans or boxes. 2,165,720; July 11.
Norman, James L., Oakland, Calif. Manufacturing of a blood product. 2,165,721; July 11.
Norman, James L., Oakland, Calif. Treating blood. 2,165,722; July 11.
Normington, James B. (See Dickey, J. B., and Normington.)
North, Oliver D., Hunton Bridge, assignor to Scammell Lorries Limited, Watford West, England. Axle mounting and driving mechanism for the driving wheels of multiple axle motor road vehicles. 2,165,723; July 11.
Norton Company. (See Indge, Herbert S., assignor.)
Norton Company. (See Wood, Wallace H., assignor.)
Novack, Henry, Brooklyn, N. Y. Bird nest. 2,165,295; July 11.
Novadel-Agene Corporation. (See Baker, John C., assignor.)
Nowak, Leon J., Jr., Chicago, Ill. Dash pot. 2,165,501; July 11.
Nuchterlein, Karl, assignor to Ihagee Kamerawerk Steenbergen & Co., Dresden, Germany. Reflex camera. 2,165,903; July 11.
Nyborg, Tage G., assignor to The Mining Engineering Company Limited, Worcester, England. Driving unit for belt conveyers. 2,165,759; July 11.
Oass, Alfred, Bremerton, Wash. Resilient flame-resistant gasket material. 2,165,296; July 11.
Obermaier, John A., Chicago, Ill. Safety system. 2,165,569; July 11.
Oehme, Hermann. (See Frey, A., Glück, and Oehme.)
Oehmichen, Etienne E., Valentigney, France. Automatic linear dimension gauge. 2,165,647; July 11.
Oliver, Stephen A., Culver City, Calif. Vehicle engine mount. 2,165,297; July 11.
Olson, John, and H. E. Dahlstrom, Minneapolis, Minn. Liquid dispenser. 2,165,570; July 11.
Oosterhout, Johan C. D. (See Rees, H. V., and Oosterhout.)
Ortegren, Herman A., assignor to Bower Roller Bearing Company, Detroit, Mich. Cutting tool and holder. 2,165,571; July 11.
Orthner, Ludwig. (See Hubert, F. E., Heisenberg, Steindorff, and Orthner.)
Osborn, Henry C. (See Chisholm, Clifton, assignor.)
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drilling mechanism. 2,165,904; July 11.
Oswald, John, Lansing, assignor to General Motors Corporation, Detroit, Mich. Grille construction. 2,165,648; July 11.
Owens-Corning Fiberglas Corporation. (See Lannan, George M., assignor.)
Owens-Corning Fiberglas Corporation. (See Thomas, J. H., and Fletcher, assignors.)
Pabst, John, et al. (See Anderson, Roy J., assignor.)
Packard Motor Car Company. (See Barter, Harry L., assignor.)
Packard Motor Car Company. (See Best, Frank C., assignor.)
Packard Motor Car Company. (See Rossmann, Peter F., assignor.)
Paes, Francisco D., L. D. Salazar de Eca, and E. P. C. Pires, Lisbon, Portugal. Combined vehicle-leveling, turn-banking, and shock-absorbing mechanism for motor vehicles. 2,165,617; July 11.
Page, Francis L., New York, and J. K. Jayne, New Canaan, Conn., assignors to Transit Advertisers, Inc., New York, N. Y. Display device. 2,165,724; July 11.
Palmer, Alfred I., Homestead, Pa. Cabinet. 2,166,018; July 11.
Pan American Airways Corporation. (See Sullinger, Ferris W., assignor.)
Pan American Refining Corporation. (See Sweeny, Perry J., assignor.)
Panettieri, Angelo M., Bridgeport, Conn. Collar. 2,165,932; July 11.
Pankau, Frank L., Milwaukee, Wis. Recording device. 2,166,019; July 11.
Pankonin, William G., Chicago, Ill. Stapling device. 2,165,572; July 11.
Paper Converting Machine Co. (See Christman, Peter J., assignor.)
Paquin, Max. (See Daimler, K., Paquin, and Riedelsberger.)
Paris, Robert E., assignor to International Business Machines Corporation, New York, N. Y. Automatically controlled calculating mechanism. 2,165,298; July 11.

Parke, Davis & Company. (See Coghill, Robert D., assignor.)
Parnell, Frank G., assignor to Automotive Products Company Limited, London, England. Brake applying means. 2,165,760; July 11.
Parsons, James G., McKeesport, Pa., assignor to National Tube Company. Valve. 2,165,649; July 11.
Parvin, Edward G., Roselle, assignor to National Pneumatic Company, Rahway, N. J. Electric door operator. 2,165,809; July 11.
Paselk, August F., Detroit, Mich. Safety wheel. 2,165,810; July 11.
Patzer, William. (See Tratsch, W. A., and Patzer.)
Pawsey, Joseph L. (See Cork, E. C., and Pawsey.)
Peerless Manufacturing Corporation. (See Clark, Verdrie F., assignor.)
Pelle, Stephen, New York, N. Y. Keyless locking mechanism. 2,165,674; July 11.
Pelphrey, Harry, Detroit, Mich. Adjustable worm element. 2,165,761; July 11.
Pelzer, Harry L., Houston, Tex., assignor to Sinclair Refining Company, New York, N. Y. Cracking hydrocarbons. 2,165,725; July 11.
Penick, Arthur J. and K. T., Houston, Tex. Blowout preventer. 2,165,410; July 11.
Penick, Kirby T. (See Penick, Arthur J. and K. T.)
Pennsylvania Pump and Compressor Company. (See Noble, William H., assignor.)
Penote, Vincent S., Euclid, Ohio. Cleaner for trenching machines. 2,165,299; July 11.
Perkins Cementing, Inc. (See Wickersham, Newton W., assignor.)
Perkins, Dow W., assignor to The White Motor Company, Cleveland, Ohio. Vehicle body construction. 2,165,939; July 11.
Peters, Frank B., Minneapolis, Minn. Backdraft diverter. 2,165,811; July 11.
Peterson, Gerhard J., Grand Forks, N. Dak. Safety life belt. 2,165,300; July 11.
Peterson, Harold O., Riverhead, N .Y., assignor to Radio Corporation of America. Remote control system. 2,165,502; July 11.
Petz, John L., Rochester, assignor to International Business Machines Corporation, New York, N. Y. Typewriting machine. 2,165,301; July 11.
Peyton, Harry S., Chicago Heights, Ill., assignor to American Locomotive Company, New York, N. Y. Making helical springs. 2,165,411; July 11.
Pfauser, Edward M., assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Portable hydraulic metal straightening machine. 2,165,503; July 11.
Pfauser, Edward M., Elm Grove, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Portable hydraulic metal straightening machine. 2,165,504; July 11.
Pfautsch, Raymond V., assignor to Ilg Electric Ventilating Company, Chicago, Ill. Portable cooling fan. 2,165,650; July 11.
Pfeil, William C., Chicago, Ill. Method of and apparatus for cubing ice. 2,165,573; July 11.
Pfleger, Robert A., Los Angeles, Calif. Paint striper. 2,165,812; July 11.
Pfleger, Walter E. (See Pope, A. C., and Pfleger.)
Philco Radio & Television Corporation. (See Earnshaw, David P., assignor.)
Philipp, Lawrence A., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,165,505; July 11.
Philippe, Maurice G. E., Courbevoie, assignor to Société dite: La Bougie B. G., Paris, France. Apparatus for dressing the grinding wheels used for gearing. 2,166,020; July 11.
Phillips, Gerald E. (See Hewlett, A. P., and Phillips.)
Phillips, Rodney F., Oakland, assignor of one-half to G. A. Scott, Berkeley, Calif. Concrete wall form. 2,165,905; July 11.
Phipps, John T. (See Smith, H. C., and Phipps.)
Pier, Mathias, Heidelberg, and E. Donath, Mannheim, Germany, assignors to Standard-I. G. Company, Linden, N. J. Fuel oil. 2,165,940; July 11.
Pieroh, Kurt. (See Mueller-Cunradi, M., and Pieroh.)
Pigge, Hans, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Detecting and measuring ultra short wave oscillations. 2,165,726; July 11.
Pike, Edwin F. (See Porsche, J. D., Pike, and Gabby.)
Pires, Eugenio P. C. (See Paes, F. D., Salazar de Eca, and Pires.)
Pirwitz, Friedrich A. G., assignor to Wollensak Optical Company, Rochester, N. Y. Photographic shutter. 2,165,574; July 11.
Pitman-Moore Company. (See Fisk, Frank B., assignor.)
Pitsch, Helmut, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany. Demodulator. 2,165,764; July 11.
Place, Bion C., assignor of one-half to G. E. Gagnier, Detroit, Mich. Fastener. 2,165,412; July 11.
Place, Bion C., assignor to Prestole Devices, Inc., Detroit, Mich. Adapting sheet metal device for threaded fasteners. 2,165,765; July 11.
Platt, Herbert, Cumberland, Md., and A. B. Snowdon, Hillidale, N. J., assignors to Celanese Corporation of America. Making a composite fabric. 2,165,506; July 11.
Polaroid Corporation. (See Land, Edwin H., assignor.)
Polydoroff, Wladimir J., Wilmette, assignor to Johnson Laboratories, Inc., Chicago, Ill. High-frequency coupling device. 2,165,575; July 11.
Pool, William O. (See Harwood, J., and Pool.)
Pope, Arthur C., and W. E. Pfleger, assignors to Ansul Chemical Company, Marinette, Wis. Treatment of liquids with sulphur dioxide. 2,166,072; July 11.
Porsche, Jules D., E. F. Pike, and J. L. Gabby, assignors to Armour and Company, Chicago, Ill. Preparing bilirubin. 2,166,073; July 11.
Pray, Thomas E., assignor to Goodman Manufacturing Company, Chicago, Ill. Kerf-cutting machine. 2,165,675; July 11.
Prestole Devices, Inc. (See Place, Bion C., assignor.)
Price, Robert J., Uniontown, Pa. Ice cream dipper. 2,165,941; July 11.
Price, Romaine C. (See Stein, W., and Price.)
Prichard, Warren H., assignor to The Alaska Freezer Co., Inc., Winechendon, Mass. Combined freezer and cube crusher. 2,165,763; July 11.
Pritchard, Eugene R., Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Delivery truck body. 2,165,980; July 11.
Process Management Company. (See Atwell, Harold V., assignor.)
Pruner, Arthur F., Oklahoma City, Okla. Door locking mechanism. 2,165,577; July 11.
Prutton, Carl F., Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich. Chlorinated diphenyl ethers and making same. 2,165,813; July 11.
Puckette, Charles C., Coventry, assignor to The General Electric Company, Limited, London, England. Impulse sender for use in telephone systems. 2,165,766; July 11.
Pure Oil Company, The. (See Maschwitz, Percy A., assignor.)
Pure Oil Company, The. (See Wagner, Cary R., assignor.)
Quartullo, Orpheus F., Shaker Heights, Ohio. Multiple-axle drive. 2,166,099; July 11.
Rabenda, Edward J., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Punching machine. 2,165,302; July 11.
Radio Corporation of America. (See Batsel, Max C., assignor.)
Radio Corporation of America. (See Beers, George L., assignor.)
Radio Corporation of America. (See Blain, Albert, assignor.)
Radio Corporation of America. (See Carter, Philip S., assignor.)
Radio Corporation of America. (See Crosby, Murray G., assignor.)
Radio Corporation of America. (See Dimmick, Glenn L., assignor.)
Radio Corporation of America. (See Finch, James L., assignor.)
Radio Corporation of America. (See Goldstine, Hallan E., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Holmes, Ralph S., assignor.)
Radio Corporation of America. (See Kimball, C. N., and Wilby, assignors.)
Radio Corporation of America. (See Koch, Winfield R., assignor.)
Radio Corporation of America. (See Maloff, Ioury G., assignor.)
Radio Corporation of America. (See Mavrogenis, Aristote, assignor.)
Radio Corporation of America. (See Morgan, Raymond B., assignor.)
Radio Corporation of America. (See Morton, G. A., and Flory, assignors.)
Radio Corporation of America. (See Peterson, Harold O., assignor.)
Radio Corporation of America. (See Rhea, Henry E., assignor.)
Radio Corporation of America. (See Rust, N. M., and Levin, assignors.)
Radio Corporation of America. (See Tolson, William A., assignor.)
Rae, John. (See Moise, B. C., and Rae.)
Ragsdale, Earl J. W., Norristown, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Vehicle body. 2,165,576; July 11.
Railway and Industrial Engineering Company. (See Kirk, Ralph L., assignor.)
Raisler, John, Beach, N. Dak. Ashtray. 2,166,021; July 11.
Rasmussen, Alvin C., assignor to Insley Manufacturing Corporation, Indianapolis, Ind. Tractor-trailer dumping vehicle. 2,165,507; July 11.
Ratigan, James P., Los Angeles, Calif. Cable end link. 2,165,413; July 11.
Raybestos-Manhattan, Inc. (See Wales, Earl A., assignor.)
Rector, Enoch, New York, N. Y. Protective device for poppet valves. 2,165,871; July 11.
Redington, F. B., Co. (See Milmoe, M. J., and Malhiot, assignors.)
Redmond, Max E., Minneapolis, Minn. Card holder. 2,165,814; July 11.

Rees, Harry V., and J. C. D. Oosterhout, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., Motor fuel. 2,165,651; July 11.
Reeves, Edward D. (See Murphree, E. V., and Reeves.)
Reggio, Ferdinando C., Buffalo, N. Y. Power transmission mechanism. 2,165,872; July 11.
Reich, Samuel, Brooklyn, N. Y. Folding box. 2,165,906; July 11.
Reichel, John, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Gelatinous colloid. 2,166,074; July 11.
Reichhold Chemicals. (See Hönel, Herbert.)
Reichhold, Helmuth. (See Honel, Herbert, assignor.)
Reid, James S., Shaker Heights, Ohio, assignor to Thermo-Plastics, Inc., St. Clair, Mich. Gate for thermoplastic molds. 2,165,762; July 11.
Reifer, George M., Rochester, and G. D. Shanahan, assignors to General Motors Corporation, Detroit, Mich. Freight car loading apparatus. 2,165,652; July 11.
Rembert, Ernest W., Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Hydrous silicate gel and making the same. 2,165,578; July 11.
Remington Rand Inc. (See Kroeger, Gustav H., assignor.)
Remington Rand Inc. (See Lasker, W. W., and Kelley, assignors.)
Remington Rand Inc. (See Myers, Edward R., assignor.)
Remington Rand Inc. (See Rindfleisch, Arthur G., assignor.)
Rentschler, M. J., et al., trustees. (See Colton, Henry S., assignor.)
Repper, Ludwig, Bremen, Germany. Apparatus for charging cigarette machines with tobacco. 2,166,022; July 11.
Republic Flow Meters Company. (See Spitzglass, Albert F., assignor.)
"Reterson Holding". (See Ricchiardi, Pier C., assignor.)
Reuther, John, East Aurora, N. Y. Potato digger. 2,165,653; July 11.
Reymers, Charles B., Jackson Heights, N. Y. Display store front. 2,165,727; July 11.
Reynolds Gas Regulator Co. (See Hughes, Ralph C., assignor.)
Rhea, Henry E., Merchantville, N. J., assignor to Radio Corporation of America. Generator for television. 2,165,815; July 11.
Rhodes, Charles J., Wakefield, England. Press for cutting sheet metal. 2,165,676; July 11.
Ricchiardi, Pier C., assignor to the society "Reterson Holding", Paris, France. Method and apparatus for the mechanical recording of sound oscillations. 2,166,079; July 11.
Riddell, William A., assignor to Eastman Kodak Company, Rochester, N. Y. Cable release for time exposures. 2,165,414; July 11.
Ridge Tool Company of Elyria, Ohio, The. (See Jackman, Elmer F., assignor.)
Rieber, Edna E., Chicago, Ill. Applicator. 2,165,508; July 11.
Riebel, Frederick, Jr., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Vacuum cleaner. 2,165,677; July 11.
Riebel, Frederick, Jr., and D. M. Dow, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio. Vacuum cleaner. 2,165,678; July 11.
Riedelsberger, Walter. (See Daimler, K., Paquin, and Riedelsberger.)
Riley Stoker Corporation. (See Hall, F. B., Treat, and Walton, assignors.)
Rindfleisch, Arthur G., Brooklyn, assignor to Remington Rand Inc., Buffalo, N. C. Sorter. 2,165,415; July 11.
Ring, Douglas H., Little Silver, and W. T. Wintringham, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillation generator. 2,165,509; July 11.
Ringman, Paul, St. Albans, N. Y. Plaster mixing cup. 2,165,679; July 11.
Rives, Walter L. (See Bass, R. F., and Rives.)
Robertson, H. H., Company. (See Black, George E., assignor.)
Robinson, Ray J. (See Brady, C. W., and Robinson.)
Ronning, Birdan E., et al. (See Mealey, Robert C., assignor.)
Ronning, Jacob, et al. (See Mealey, Robert C., assignor.)
Roosevelt, Marcus S., and G. L. Bezold, assignors to The Hamilton Autographic Register Company, Hamilton, Ohio. Manifolding continuous stationery. 2,166,075; July 11.
Rose, Richard C., Roseland, Ark. Remoting machine. 2,166,023; July 11.
Rosenblatt, Edgar F., East Orange, assignor to Baker & Company, Inc., Newark, N. J. Platinum metal compounds and making them. 2,166,076; July 11.
Rosene, Victor E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical measuring, recording, and control system. 2,165,510; July 11.
Rosenfeld, Hermann, and J. Morhard, Mannheim, Germany. Apparatus for creping sheet material. 2,165,728; July 11.
Rosenthal, Arthur, Chicago, Ill. Article holder for cooking utensil covers. 2,165,654; July 11.
Roshong, Roy G. (See Studer, C. W., Roshong, and Miller.)
Rossmann, Peter F., assignor to Packard Motor Car Company, Detroit, Mich. Fluid pressure operated master cylinder. 2,165,942; July 11.
Round, David, & Son. (See Martin, Charles C., assignor.)
Rult, Isaac, assignor of one-half to D. Wagner, Paterson, N. J. Game table. 2,165,907; July 11.
Runge, Wilhelm, and A. Kunze, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Radio receiver. 2,165,304; July 11.
Rüsberg, Friedrich, Berlin-Niederschoneweide, assignor to Kali-Chemie Aktiengesellschaft, Berlin, Germany. Manufacture of ignited phosphates. 2,165,729; July 11.
Rush, Edgar J., Lancaster, Ohio. Glass feeder. 2,165,873; July 11.
Rust, Noël M., Chelmsford, and N. Levin, Finchley, London, England, assignors to Radio Corporation of America. Tuning indicator and scale. 2,165,816; July 11.
Ruths, Robert J., Baltimore, Md. Signal device. 2,165,305; July 11.
Ruzicka, Leopold, Zurich, assignor to firm of Society of Chemical Industry in Basle, Basel, Switzerland. Making the esters of polynuclear hydroxyketones. 2,165,655; July 11.
Ryan, Michael H., Los Angeles, Calif. Connector. 2,165,656; July 11.
Rydstedt, Simon D., assignor to Stewart-Warner Corporation, Chicago, Ill. Dial Mechanism. 2,165,416; July 11.
Safford, Lewis A. (See Campbell, C. A., and Safford.)
Safford, Truman S., Port Chester, N. Y. Braking system. 2,165,817; July 11.
Salazar de Eça, Luiz de M. (See Paes, F. de O., Salazar de Eça, and Pires.)
Sampson, John C., St. Louis, Mo., assignor of one-half to J. E. Sampson. Electronic phonograph pick-up. 2,165,981; July 11.
Sampson, Julian E. (See Sampson, John C., assignor.)
Sandin, Jerome, Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,165,511; July 11.
Sardik Incorporated. (See Myers, Philip B., assignor.)
Sauls, John M., Oklahoma City, Okla. Valve. 2,165,874; July 11.
Saunders, Norman H., Homewood, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,165,579; July 11.
Sawyer, William B., Kennebunkport, assignor to The Burrowes Corporation, Portland, Maine. Return-ball equipment for billiard tables and the like. 2,165,875; July 11.
Scammell Lorries Limited. (See North, Oliver D., assignor.)
Schade, Willy. (See Frederick, C. W., and Schade.)
Schaeren, Ernst, assignor to Scintilla, Ltd., Soleure, Switzerland. Regulating apparatus for fuel injection pumps of internal combustion engines. 2,165,657; July 11.
Schaeren, Ernst, assignor to Scintilla, Ltd., Soleure, Switzerland. Angularly adjustable shaft coupling device. 2,165,658; July 11.
Schaerer, Otto, Basel, Switzerland. Speed changing gear for machine tools, especially lathes. 2,165,730; July 11.
Scharff, Fritz M. (See Cook, H. D., and Scharff.)
Scheufler, Edward L., Kansas City, Mo. Air circulating system for rolling stock. 2,165,580; July 11.
Schmer, Karl, Berlin-Mariendorf, Germany, assignor to General Electric Company. Turbo-electric railway motor car. 2,165,982; July 11.
Schmer, Karl, Berlin-Mariendorf, Germany, assignor to General Electric Company. Power-plant control apparatus. 2,165,983; July 11.
Schmidt, Otto, Methuen, Mass. Tool handle fastening. 2,166,024; July 11.
Schmidt, Willi, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellshaft, Frankfort-on-the-Main, Germany. Production of amines by the catalytic hydrogenation of nitriles. 2,165,515; July 11.
Schneider, Cale J., Toledo, Ohio. Fruit girth. 2,165,417; July 11.
Schneider, Fred E., Grand Junction, Colo. Locking means for fuel tank caps. 2,165,659; July 11.
Schneider, Kurt R. (See Fitch, C. J., and Schneider.)
Schofield, Ralph M., West Medford, Mass. Camera periscope. 2,165,512; July 11.
Scholl, Elwood L., Detroit, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Bonding resilient rubber. 2,165,818; July 11.
Schroeder, Carl, Cleveland, Ohio. Toe cap for toe dancing shoes. 2,165,581; July 11.
Schroeder, Charles, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Puller. 2,165,984; July 11.
Schubert, Alvin E., assignor to Eastman Kodak Company, Rochester, N. Y. Reversing arrangement for document reproducing machines. 2,165,418; July 11.
Schubert, Alvin E., assignor to Eastman Kodak Company, Rochester, N. Y. Film winding and gate opening mechanism. 2,165,419; July 11.
Schuler, George, Woodside, N. Y. Window construction. 2,165,943; July 11.

Schulz Brothers Company. (See Kloid, H. W., and Schulz, assignors.)
Schulz, Otto F. (See Kloid, H. W., and Schulz.)
Schürmann, Carl, Dusseldorf, Germany. Elastic coupling. 2,165,731; July 11.
Schwarz, Frederick K., Boston, Mass. Electric razor. 2,166,025; July 11.
Schweizerische Lokomotiv-und Maschinenfabrik. (See Weber, Fritz J., assignor.)
Schwentler, Francis E., St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Piston travel amplifier. 2,165,985; July 11.
Scintilla, Ltd. (See Schaeren, Ernst, assignor.)
Scofield, Theodore J., assignor to The Sparks-Withington Company, Jackson, Mich. Electromagnetic motor for warning signals and the like. 2,165,582; July 11.
Scott, Garnett L., Wilmington, Del., assignor to General Chemical Company, New York, N. Y. Manufacture of arsenic acid. 2,165,944; July 11.
Scott, George A. (See Phillips, Rodney F., assignor.)
Scovill Manufacturing Company. (See Donahue, Patrick F., assignor.)
Scovill Manufacturing Company. (See Donahue, P. F., and Ferguson, assignors.)
Scovill Manufacturing Company. (See Hoffman, Allan C., assignor.)
Seaver, Kenneth, Oakmont, assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa. Casting metals. 2,165,945; July 11.
Seifert, Charles H., Hempstead, N. Y. Tooth cleaning element. 2,165,420; July 11.
Separation Process Company. (See Vogel-Jorgensen, Mikael, assignor.)
Servel, Inc. (See Auslebrook, William J., assignor.)
Seversky Aircraft Corporation. (See de Seversky, Alexander P., assignor.)
Shanahan, Frank M., assignor to The Murray Corporation of America, Detroit, Mich. Vehicle seat. 2,165,306; July 11.
Shanahan, George D. (See Reiger, G. M., and Shanahan.)
Sharp & Dohme, Incorporated. (See Reichel, John, assignor.)
Shaw, Cecil. (See Hardacre, R. W., Holden, and Shaw.)
Shaw, Kenneth R., assignor to Easthampton Rubber Thread Co., Easthampton, Mass. Rubber thread and making same. 2,165,986; July 11.
Sheffield, Mallon J. (See Winslow, R. H., and Sheffield.)
Sheppard, Samuel E., and R. C. Houck, assignors to Eastman Kodak Company, Rochester, N. Y. Hardening photographic emulsions. 2,165,421; July 11.
Sherwin-Williams Company, The. (See Svendsen, Svend S., assignor.)
Simplex Corporation, The. (See Debrey, Michael, assignor.)
Sinclair Refining Company. (See Pelzer, Harry L., assignor.)
Sinko, John, Chicago, Ill. Socket member for a wireless cigar lighter. 2,165,876; July 11.
Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Translating magnetic variations into electric variations. 2,165,307; July 11.
Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode ray device. 2,165,308; July 11.
Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Current controlesystem. 2,165,911; July 11.
Sloane, William W., assignor to Goodman Manufacturing Company, Chicago, Ill. Feeding mechanism for shaker or jigging conveyers. 2,165,583; July 11.
Smack Corporation, The. (See Duane, H. B., and Long, assignors.)
Smith, Claude H., Tallmadge, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Handling of dusts, etc. 2,165,946; July 11.
Smith, Herman C., Whittier, and J. T. Phipps, Huntington Park, Calif.; said Phipps assignor to said Smith. Roller bit. 2,165,584; July 11.
Smith, John F., Quincy, Mass., assignor to Compo Shoe Machinery Corporation, New York, N. Y. Adhesive handling apparatus. 2,165,767; July 11.
Smith, Roy W., Newark, Ohio. Cold storage locker room. 2,165,513; July 11.
Smith, Ward L., Bedford, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio. Magnetic switch device. 2,165,514; July 11.
Smith, William L., Jr. (See Lawson, R. H., and Smith.)
Smyers, William H., Westfield, N. J., assignor to Standard Oil Development Company. Manufacture of acetylene. 2,165,820; July 11.
Snoek, Gustav. (See Jacobowitz, Simon, assignor.)
Snowdon, Arthur R. (See Platt, H., and Snowdon.)
Snyder, Clifford H., Dormont, and A. W. Ferguson, Bellevue, Pa.; said Ferguson assignor to said Snyder. Stoker. 2,166,080; July 11.
Snyder, George, and G. S. Lawson, assignors to General Motors Corporation, Detroit, Mich. Instrument cluster cabinet. 2,165,660; July 11.
Sobczak, Walter, and G. Thal, Berlin, Germany, assignors to General Electric Company. Electric lamp. 2,165,987; July 11.
Societe Anonyme des Anciens Etablissements L. Chambon. (See Chambon, Henri, assignor.)
Société dite: La Bougie B. G. (See Philippe, Maurice G. E., assignor.)
Societe Fonciere Industrielle et Commerciale. (See Bertoye, Louis, assignor.)
Society of Chemical Industry in Basle. (See Ruzicka, Leopold, assignor.)
Sontag, Benjamin D., Clairton, Pa. Removing carbon disulphide from coke-oven light oil. 2,165,732; July 11.
Southern States Equipment Corporation. (See Lemmon, George N., assignor.)
Southgate, George T., Forest Hills, N. Y. Electric power conversion. 2,165,309; July 11.
Spackman, Thomas F., River Grove, assignor to Stewart-Warner Corporation, Chicago, Ill. Automatic feeding device for liquid fuel and the like. 2,165,585; July 11.
Spaeth, Charles, Flushing, N. Y. Filament. 2,165,310; July 11.
Sparks-Withington Company, The. (See Scofield, Theodore J., assignor.)
Sparling, Archibald E. (See Sparling, Frank K., W. D., and A. E.)
Sparling, Frank K., W. D., and A. E., New Bedford, assignors to R. and S. Jetter Co., Boston, Mass. Jet discharging apparatus. 2,165,908; July 11.
Sparling, William D. (See Sparling, Frank K., W. D., and A. E.)
Spaunburg Harvey L., Bristol, Conn., assignor to Veeder-Root Incorporated. Locked pick counter. 2,165,733; July 11.
Specialty Merchandisers, Inc. (See Mayer, Joseph E., assignor.)
Sperry Gyroscope Company. (See Carlson, Bert G., assignor.)
Spiller, William R., assignor to The White Motor Company, Cleveland, Ohio. Lubricating system for motor vehicle engines. 2,165,909; July 11.
Spitzglass, Albert F., assignor to Republic Flow Meters Company, Chicago, Ill. Regulating apparatus and method. 2,166,077; July 11.
Sprater, Adolf. (See Ehrhardt, P. G., and Sprater.)
Stancliff, Clifton L., Bakersfield, Calif. Valve seat. 2,165,311; July 11.
Standard Alcohol Co. (See Brooks, Benjamin T., assignor.)
Standard-I. G. Company. (See Pier, M., and Donath, assignors.)
Standard Mfg. Co. (See Batcheller, Hugh W., assignor.)
Standard Oil Development Company. (See Blau, L. W., and Lewis, assignors.)
Standard Oil Development Company. (See Blau, L. W., and Statham, assignors.)
Standard Oil Development Company. (See Hewlett, A. P., and Phillips, assignors.)
Standard Oil Development Company. (See Murphree, E. V., and Reeves, assignors.)
Standard Oil Development Company. (See Smyers, William H., assignor.)
Standard Oil Development Company. (See Whiteley, James M., assignor.)
Standard Oil Development Company. (See Wiezevich, P. J., and Wasson, assignors.)
Standard Oil Development Company. (See Zimmer, J. C., and Holtzclaw, assignors.)
Stangenberg, Johan W. H., Brevik, Sweden, W. S. Crowell, Melrose Park, and C. V. Gross, Penfield; said Crowell and said Gross assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa. Plastic hydrocolloid composition and making. 2,165,680; July 11.
Stanius, Godfrey, Cicero, assignor to Acme Steel Company, Chicago, Ill. Conveyer belt. 2,165,422; July 11.
Stanolind Oil and Gas Company. (See Bays, George S., assignor.)
Statham, Louis. (See Blau, L. W., and Statham.)
Stearns-Roger Manufacturing Company, The. (See Daley, Gustave J., assignor.)
Stearns-Roger Manufacturing Company, The. (See Mason, J. E., and Ballou, assignors.)
Steatit-Magnesia Aktiengesellschaft. (See Alberg-Schönberg, Ernst, assignor.)
Stechbart, Bruno, assignor to The Bell & Howell Company, Chicago, Ill. Projection lamp house and lamp mounting adapted therefor. 2,165,681; July 11.
Stein, William, and R. C. Price, New York, N. Y. Minnow catcher. 2,165,516; July 11.
Steindorff, Adolf. (See Hubert, F. E., Heisenberg, Steindorff, and Ortlmer.)
Steinmayer, Alwin G. (See Earle, R. H., and Steinmayer.)
Stenquist, Robert J., Kalama, Wash. Fireplace. 2,165,661; July 11.
Stephenson, Arthur, assignor to The British Oxygen Company Limited, Westminster, London, England. Metal pipe joint. 2,166,078; July 11.
Stern, Raphael L., New Brunswick, N. J., assignor to Hercules Powder Company, Wilmington, Del. Manufacture of chlorinated rubber of high apparent density. 2,165,682; July 11.
Stevenson, Geoffrey, Brookline, Mass. Combined seaming and plaking machine. 2,165,312; July 11.
Stevenson, Geoffrey, Brookline, Mass. Trimming mechanism. 2,165,313; July 11.
Stevenson, George H., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Oscillation generator. 2,165,517; July 11.

Stevenson, Robert E., Indianapolis, Ind. Snow plow. 2,165,314; July 11.
Stewart, Carlton D., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,165,988; July 11.
Stewart, Ernest L. (See Holter, C. B., and Stewart.)
Stewart-Warner Corporation. (See Karsel, William, assignor.)
Stewart-Warner Corporation. (See Rydstedt, Simon D., assignor.)
Stewart-Warner Corporation. (See Spackman, Thomas F., assignor.)
Stolz, Rufus E., East Cleveland, Ohio. Control device for refrigerating systems. 2,165,518; July 11.
Stolz, Rufus E., East Cleveland, and G. Y. Woodling, Lakewood, Ohio. Refrigerating control device. 2,165,519; July 11.
Storch, Max H., Bell Harbor, Long Island, N. Y. Hand mirror. 2,165,683; July 11.
Storey, Lynwood E., et al. (See Anderson, Roy J., assignor.)
Story, Ernst J. (See Vigorith, A., Story, and Delaney.)
Stracener, Charles, Sweetwater, Tex. Cast bait or bug. 2,165,734; July 11.
Strayer, Arthur C., Beaver, Pa. Follower for filing cabinets. 2,166,026; July 11.
Strouse, George C. (See Lubs, H. A., and Strouse.)
Struck, Frederick A., Golden, Colo. Portable liquid container and filling the same. 2,165,684; July 11.
Struve, Frederick E., Philadelphia, Pa. Nonrun hosiery. 2,165,520; July 11.
Stuck, Harold D., assignor to John W. Bolton & Sons, Inc., Lawrence, Mass. Glued Jordan lining. 2,165,947; July 11.
Studer, Clair W., and R. G. Roshong, North Canton, and M. Miller, Aultman, assignors to The Hoover Company, North Canton, Ohio. Carpet cleaning composition. 2,165,586; July 11.
Stuebing, W. R., et al. (See King, Clyde H., assignor.)
Stuer, Joseph. (See McCann, J. J., and Stuer.)
Stuller, Earl A., assignor to Western Chain Products Co., Chicago, Ill. Tire chain. 2,165,768; July 11.
Sturges, Frank C., Dormont, Pa. Test drill. 2,165,685; July 11.
Sturtevant, B. F., Company. (See Anderson, Samuel M., assignor.)
Suiter, Charles and H. R., Detroit, Mich. Building construction. 2,165,686; July 11.
Suiter, Harold R. (See Suiter, Charles and H. R.)
Sullinger, Ferris W., Coral Gables, Fla., assignor to Pan American Airways Corporation, Jersey City, N. J. Direction finder. 2,166,100; July 11.
Sullivan Machinery Company. (See Joy, Joseph F., assignor.)
Sullivan Machinery Company. (See Osgood, Charles F., assignor.)
Svendsen, Svend S., Madison, Wis., assignor, by mesne assignments, to The Sherwin-Williams Company, Cleveland, Ohio. Pigment. 2,165,315; July 11.
Swan, John B., Gladstone, Mich. Journal box guide means. 2,165,662; July 11.
Sweeny, Perry J., Dickinson, Tex., assignor to Pan American Refining Corporation, New York, N. Y. Cracking hydrocarbon oils. 2,165,587; July 11.
Sydnor-Thompson Mfg. Company. (See Thomas, Albert G., assignor.)
Talon, Inc. (See Boetcker, William A., assignor.)
Talon, Inc. (See Galloway, Donald W., assignor.)
Tay, George H., assignor to Lee Metal Products Company, Inc., Philpsburg, Pa. Juice heating unit. 2,166,027; July 11.
Taylor, Edward A., Shaker Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of soluble phosphates. 2,165,948; July 11.
Taylor, John R., Bedford, England, assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric motor control system. 2,165,521; July 11.
Taylor, Theron C., Detroit, Mich. Treatment of limestone. 2,165,735; July 11.
Taylor, William L., and L. B. Gibbins, Spondon, near Derby, England, assignors to Celanese Corporation of America. Ink and the marking of textile materials. 2,165,522; July 11.
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Brandt, Erich, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Buschbeck, Werner, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Gerhard, Ernst, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Gothe, A., Buschbeck, and Kautter, assignors.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Pigge, Hans, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Pitsch, Helmut, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Runge, W., and Kunze, assignors.)
Teletype Corporation. (See Dahlgren, Harold T., assignor.)
Templeman, James A., near Seattle, assignor to Grade-O-Lite, Inc., Seattle, Wash. Egg grading device. 2,165,423; July 11.
Teves, Alfred, Maschinen- und Armaturen-Fabrik Gesellschaft mit beschrankter Haftung. (See Engel, Ernst, assignor.)
Texas Company, The. (See Hall, Frank W., assignor.)
Texas Company, The. (See Holter, C. B., and Stewart, assignors.)
Texas Company, The. (See Manley, Robert E., assignor.)
Texas Company, The. (See Rees, H. V., and Oosterhout, assignors.)
Texas Company, The. (See Viette, W. V. and Garrison, assignors.)
Texas Gulf Sulphur Company. (See Bacon, R. F., and Rencowitz, assignors.)
Textile Machine Works. (See Autem, Fred, assignor.)
Thaheld, Ferl A., assignor to The Gulberson Corporation, Dallas, Tex. Packer. 2,165,687; July 11.
Thal, Georg. (See Sobczak, W., and Thal.)
Thermo-Plastics, Inc. (See Reid, James S., assignor.)
Thoma, Matthias. (See Gruber, W., Thoma, and Zoebelein.)
Thomas, Albert G., assignor to Sydnor-Thompson Mfg. Company, Inc., Lynchburg, Va. Planting device. 2,165,663; July 11.
Thomas, Albert G., assignor to Sydnor-Thompson Mfg. Company, Inc., Lynchburg, Va. Planting device. 2,165,664; July 11.
Thomas, James L., Garrett Park, Md., assignor to the Government of the United States of America, represented by the Secretary of Commerce. Electrical resistance element, alloy, and production thereof. 2,165,316; July 11.
Thomas, John H., and E. Fletcher, Newark, Ohio, assignors by mesne assignments, to Owens-Corning Fiberglas Corporation. Apparatus for feeding molten glass. 2,165,318; July 11.
Thomas, Raymond E., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Printer's blanket. 2,165,317; July 11.
Thompson, Richard A., Detroit, Mich., assignor to Colonial Broach Company. Broaching machine. 2,165,588; July 11.
Thompson, Robert E., Des Moines, Iowa. Golf bag. 2,165,665; July 11.
Thompson, William C., Seattle, Wash. Dial adding machine. 2,166,081; July 11.
Tidd, Warren H. (See Green, E. I., and Tidd.)
Tide Water Associated Oil Company. (See Cook, Elmer W., assignor.)
Tilly, James O., assignor of sixty-five and two-tenths per cent to J. Hailey, and two per cent to C. M. Martin, and one per cent to F. R. Moffatt, Tulsa, Okla. Horizontal drilling machine. 2,165,666; July 11.
Tischner, Horst, Berlin–Steglitz, J. Flurl, Berlin-Karlshorst, and H. Wessels, Berlin-Oberschoneweide, assignors to Allgemeine Elektricitat Gesellschaft, Berlin, Germany. Distortion-free amplifier circuit. 2,165,769; July 11.
Todd, Guerin. (See Yerger, C. W., and Todd.)
Tolson, William A., Westmont, N. J., assignor to Radio Corporation of America. Electrical control apparatus. 2,165,770; July 11.
Tomalis, Joseph J., assignor to American Screw Company, Providence, R. I. Apparatus for making screw blanks. 2,165,424; July 11.
Tomalis, Joseph J., assignor to American Screw Company, Providence, R. I. Making recessed head screws. 2,165,425; July 11.
Tos, Rodolfo, New York, N. Y. Collar straightening strip. 2,165,990; July 11.
Townsend, Henry B., Belmont, assignor to Vultex Chemical Company, Cambridge, Mass. Vulcanized rubber compositions. 2,165,589; July 11.
Transit Advertisers, Inc. (See Page, F. L. M., and Jayne, assignors.)
Transit Research Corporation. (See Bell, Dan H., assignor.)
Transit Research Corporation. (See Brown, Alexander G., Jr., assignor.)
Tratsch, Walter A., Chicago, Ill. Target apparatus. 2,165,591; July 11.
Tratsch, Walter A., and W. Patzer, Chicago, Ill. Coinfreed control. 2,165,590; July 11.
Traut, George T., Gloucester, assignor to New Process Rayon, Inc., Gloucester City, N. J. Converting copper sulphide. 2,165,667; July 11.
Trent, Franklin G. (See Hall, F. B., Treat, and Walton.)
Treeland, Lewis, Kansas City, Kans. Fertilizer and making same. 2,165,592; July 11.
Tremolada, Guglielmo. (See Davidson, W. D., and Tremolada.)
Tropp, Emerick J., Detroit, Mich. Stitching machine. 2,166,028; July 11.
Trippe, Graham, Chicago, Ill. Lamp control means. 2,165,688; July 11.
Trippe, Graham, Chicago, Ill. Head lamp for vehicles. 2,165,689; July 11.
Trojan, José, assignor to O. Housholder and D. C. Cohen, a co-partnership doing business as Crystal Manufacturing Co., Chicago, Ill. Sign. 2,165,910; July 11.
Trojan Powder Company. (See Wyler, Joseph A., assignor.)
Tubize Chatillon Corporation. (See Allquist, John W., assignor.)
Turner, William L. (See Blackwell, H. A., and Turner.)

Tuttle, Fordyce, and J. S. Beggs, assignors to Eastman Kodak Company, Rochester, N. Y. Telescoping tripod leg. 2,165,426; July 11.
Twele, Otto, Berlin, Germany. Advertising apparatus. 2,165,736; July 11.
Twitchell, Frank T., Tinnie, N. Mex. Hand cabbage setter. 2,165,821; July 11.
Union Machinery Company. (See Marasso, Fred, assignor.)
Union Oil Company of California. (See Jewel, P. W., and Bradley, assignors.)
United-Carr Fastener Corporation. (See Hall, Charles L., assignor.)
United-Carr Fastener Corporation. (See Merk, George S., assignor.)
United Shoe Machinery Corporation. (See Brandt, Francis L., assignor.)
United Shoe Machinery Corporation. (See Engel, K., and Kinney, assignors.)
United Shoe Machinery Corporation. (See Hood, Charles E., assignor.)
United Shoe Machinery Corporation. (See Kamborian, Jacob S., assignor.)
United Shoe Machinery Corporation. (See Lyness, Horatio S., assignor.)
United Shoe Machinery Corporation. (See Vigorith, A., Story, and Delaney, assignors.)
United States Rubber Company. (See Eger, Ernst, assignor.)
United States Rubber Company. (See Scholl, Elwood L., assignor.)
United States Steel Corporation. (See Johnston, John, assignor.)
United States Stoneware Company. (See Burnip, Harold A., assignor.)
United Water Cooler Service, Inc. (See Moffat, Albert S., assignor.)
Unterbusch, Franz, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany. Tubular conductor. 2,165,737; July 11.
Vaccaro, George, assignor of one-half to H. Jacobson, New York, N. Y. Eye protector. 2,165,668; July 11.
Vaclavik, Vincent F., St. Louis, Mo. Multiutilitarian cooling and serving cabinet. 2,165,822; July 11.
Van Hoffen, Hendrik A. M., Johannesburg, Transvaal, Union of South Africa, assignor to Naamlooze Vennootschap Hollandsche Draad-en Kabelfabriek, Amsterdam, Netherlands. Electric conducting element. 2,165,738; July 11.
Vaughn, Sidney P., United States Navy, San Diego, Calif. Mop. 2,165,319; July 11.
Veeder-Root Incorporated. (See Spaunburg, Harvey L., assignor.)
Vereinigte Chemische Fabriken Kreidl, Heller & Co. Nfg. (See Kreidl, Ignaz, assignor.)
Verkinderen, Honoré, Mortsel, near Antwerp, assignor to Gevaert Photo-Producten N. V., Oude-God, Antwerp, Belgium. Cassette for cinematographic cameras. 2,165,739; July 11.
VerMeulen, James M., and G. Bucher, assignors to American Seating Company, Grand Rapids, Mich. Ventilating system. 2,165,593; July 11.
Victor Adding Machine Company. (See Garbell, Max, assignor.)
Vietti, William V., and A. D. Garrison, Houston, Tex., assignors to The Texas Company, New York, N. Y. Drilling wells. 2,165,823; July 11.
Vietti, William V., and A. D. Garrison, Houston, Tex., assignors to The Texas Company, New York, N. Y. Drilling wells. 2,165,824; July 11.
Vigorith, Anthony, E. J. Story, and J. M. Delaney, Cincinnati, Ohio, assignors to United Shoe Machinery Corporation, Paterson, N. J. Shoe sole and heel construction. 2,165,427; July 11.
Virginia Smelting Company. (See Binns, Frederick W., assignor.)
Vi-Vac Concrete Pipe Company. (See Ward, Walter, assignor.)
Vlasak, Joseph, Racine, Wis. Shielding means for rear view mirrors. 2,165,771; July 11.
Vogel-Jorgensen, Mikael, Frederiksberg, near Copenhagen, Denmark, assignor to Separation Process Company. Flotation of oxide ore minerals. 2,165,268; July 11.
Volz, Charles A., Chicago, Ill. Shoe vamp filler. 2,165,877; July 11.
Von Bülitzingslöwen, Bruno, New York, N. Y. Container and closure for same. 2,165,825; July 11.
Vorech, Stephen, assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Vehicle control mechanism. 2,166,029; July 11.
Vultex Chemical Company. (See Townsend, Henry B., assignor.)
Wacker, Dr. Alexander, Gesellschaft fur elektrochemische Industrie, G. m. b. H. (See Gruber, W., Thoma, and Zoebelein, assignors.)
Wade, William, Chicago, Ill. Shade. 2,165,669; July 11.
Wademan, Warrington C., West Orange, N. J. Navigation instrument. 2,165,690; July 11.
Waeltz, Anton, New Athens, Ill. Lumber rule. 2,166,030; July 11.
Wagner, Cary R., Chicago, Ill., assignor of one-half to The Pure Oil Company. Treating lubricating oil fractions. 2,165,949; July 11.
Wagner, Daniel. (See Ruit, Isaac, assignor.)
Wales, Earl A., Cleveland, Ohio, assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn. Clutch. 2,165,670; July 11.
Walker, Hiram, & Sons, Inc. (See Willkie, H. F. and Boruff, assignors.)
Walsh, Patrick H., Boston, Mass., and P. T. Gates, Montclair, assignors to Drycor Felt Company, Belleville, N. J. Industrial and paper-makers' felts. 2,165,772; July 11.
Walton, Harold F. (See Hall, F. B., Treat, and Walton.)
Ward, Eugene B., West Springfield, Mass. Footwear. 2,165,749; July 11.
Ward, Walter, Oakland, Calif., assignor to Vi-Vac Concrete Pipe Company. Apparatus for manufacturing plastic articles. 2,165,671; July 11.
Washburn, Willis F., R. Dahlstrom, and A. T. McCord, Metuchen, N. J., assignors, by mesne assignments, to National Lead Company, Inc., New York, N. Y. White titanium pigment and preparing the same. 2,166,082; July 11.
Wasson, Jones I. (See Wiezevich, P. J., and Wasson.)
Waterhouse, Charles L., Jr., Dearborn, assignor to General Motors Corporation, Detroit, Mich. Automobile body construction. 2,165,594; July 11.
Waugh, George P., assignor to Eastman Kodak Company, Rochester, N. Y. Catalysts for producing aliphatic acids and producing them. 2,165,428; July 11.
Weadon, Francis M., Jr., Washington, D. C. Carpenter's gauge. 2,165,878; July 11.
Weber, Fritz J., assignor to the firm Schweizerische Lokomotiv-und Maschinenfabrik, Winterthur, Switzerland. Type. 2,165,429; July 11.
Weeks, James A., et al., trustees. (See Colton, Henry S., assignor.)
Weimont, Joseph, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y. Pin ticket roll. 2,165,672; July 11.
Weinhart, John, Detroit, Mich. Adjustable holder and sign. 2,165,595; July 11.
Weisfeld, Emanuel, New York, N. Y. Metal covered door. 2,165,430; July 11.
Weiss, Abraham, and J. J., New York, N. Y. Controlling the operation of motor vehicles or the like. 2,165,320; July 11.
Weiss, Joseph. (See Weiss, Abraham, and J.)
Wellman, Howard C., assignor to Eastman Kodak Company, Rochester, N. Y. Still mechanism for motion picture projectors. 2,165,431; July 11.
Wendell, Evert J., Wayne, assignor to The Hale Fire Pump Co., Inc., Conshohocken, Pa. Hose bridge device. 2,166,031; July 11.
Werder, John F., Lakewood, Ohio. Oil filter. 2,165,826; July 11.
Wernet, Richard D. (See Lippert, Victor A., assignor.)
Wertz, William R., Glendale, Calif. Device for disseminating by steam aqueous solutions, emulsions, and mixtures. 2,165,321; July 11.
Wessels, Herman. (See Tischner, H., Flurl, and Wessels.)
West Coast-Manchester Mills, Inc. (See Fellegi, Margit, assignor.)
West, William E., assignor to R. Blackinton & Co., North Attleboro, Mass. Making hollow-handle flatware. 2,165,991; July 11.
Westendorp, Willem F., Schenectady, N. Y., assignor to General Electric Company. Dynamic balancing of rotating bodies. 2,165,992; July 11.
Western Cartridge Company. (See Burton, Frank F., assignor.)
Western Cartridge Company. (See Humeston, Frederick L., assignor.)
Western Chain Products Co. (See Stuller, Earl A., assignor.)
Western Union Telegraph Company, The. (See Blanton, W. B., and White, assignors.)
Western Union Telegraph Company, The. (See Wheeler, H. H., and McGinnis, assignors.)
Westinghouse Air Brake Company. (See Canetta, John, assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Guillemin Tarayre, J., and Neveu, assignors.)
Westinghouse Air Brake Company, The. (See Hewitt, E. E., and McNeal, assignors.)
Westinghouse Air Brake Company, The. (See Maxwell, Thomas, assignor.)
Westinghouse Air Brake Company, The. (See Miller, Frank E. assignor.)
Westinghouse Air Brake Company, The. (See Schwentler, Francis E., assignor.)
Westinghouse Air Brake Company, The. (See Stewart, Carlton D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Hastings, Roger W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Sandin, Jerome, assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Wolfert, Edward R., assignor.)
Weston, W. Calvin, assignor to The Murray Corp. of America, Detroit, Mich. Toggle clamp. 2,165,322; July 11.

Wheeler, Herbert H., Millburn, N. J., and O. McGinnis, Brooklyn, assignors to The Western Union Telegraph Company, New York, N. Y. Insulator for communication systems. 2,165,773; July 11.
White, Frank L. (See Brooker, L. G. S., and White.)
White, Jesse M., Philadelphia, Pa. Terminal for electrical conductors. 2,165,323; July 11.
White, Leon T., Painesville, assignor to The Economy Engineering Company, Willoughby, Ohio. Automatic drilling and countersinking machine. 2,165,774; July 11.
White Motor Company, The. (See Perkins, Dow W., assignor.)
White Motor Company, The. (See Spiller, William R., assignor.)
White, Roy B. (See Blanton, W. B., and White.)
White, Sidney Y., assignor to V. S. Johnson, Chicago, Ill. Automatic regulation in radio receivers. 2,165,596; July 11.
White, S. S., Dental Manufacturing Company, The. (See Stangenberg, J. W. H., (Crowell, and Gross, assignors.)
Whitehorn, Arthur R., assignor to General Railway Signal Company, Rochester, N. Y. Traffic controlling system for railroads. 2,166,083; July 11.
Whitehouse, George T. (See McManeus, Bennett H., assignor.)
Whiteley, James M., Roselle, N. J., assignor to Standard Oil Development Company. Oils of high viscosity index and making the same. 2,165,432; July 11.
Whitman, Charles F., assignor to Automatic Products Company, Detroit, Mich. Feed tube and pusher. 2,165,912; July 11.
Wickersham, Newton W., Whittier, Calif., assignor to Perkins Cementing, Inc. Top cementing plug. 2,165,433; July 11.
Wickman, A. C., Limited. (See Gregory, Dennis, assignor.)
Widoe, Frederick, Sr., Omaha, Nebr. Forming dentures. 2,165,597; July 11.
Wiezevich, Peter J., and J. I. Wasson, Elizabeth, N. J.; said Wiezevich, now by judicial change of name to P. J. Gaylor; assignors to Standard Oil Development Company. Stable blended oil. 2,165,324; July 11.
Wilby, Edward W. (See Kimball, C. N., and Wilby.)
Wilkerson, Victor O., Vestal, assignor to International Business Machines Corporation, New York, N. Y. Accounting machine. 2,165,325; July 11.
Wilkinson, George H., Windsor, Ontario, Canada. Ankle support. 2,165,879; July 11.
Williamson, Floyd M., Detroit, Mich. Vanity case. 2,165,598; July 11.
Williamson, Floyd M., Detroit, Mich. Wiper for vanity case mirrors. 2,165,599; July 11.
Willkie, Herman F., and C. S. Boruff, assignors to Hiram Walker & Sons, Inc., Peoria, Ill. Dehydration of moisture-containing compounds. 2,165,950; July 11.
Wilson, Allen B. (See MacChesney, C. M., and Wilson.)
Wilson, Allen B., Evanston, assignor to Acme Steel Company, Chicago, Ill. Conveyer belt. 2,165,434; July 11.
Wilson, George D. (See Baker, G. R., and Wilson.)
Winans, Charles F., Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Plasticizer. 2,165,951; July 11.
Winders, Robert C., Huntington Park, Calif. Coil spring forming machine. 2,165,600; July 11.
Wingfoot Corporation. (See Clifford, Albert M., assignor.)
Wingfoot Corporation. (See Smith, Claude H., assignor.)
Wingfoot Corporation. (See Winans, Charles F., assignor.)
Winslow, Robert H., and M. J. Sheffield, West Hartford, Conn. Lock. 2,165,775; July 11.
Winter, Alexander J., Toronto, Ontario, Canada. Tie support. 2,165,913; July 11.
Wintringham, William T. (See Ring, D. H., and Wintringham.)
Wirth, Emil H., assignor to the Firma Emil Wirth Wirkmaschinenfabrik, Hartmannsdorf, near Chemnitz, Germany. Laying machine guide for warp knitting machines. 2,166,032; July 11.
Wirth, Emil, Wirkmaschinenfabrik, Firma. (See Wirth, Emil H., assignor.)
Witt, George A., Saginaw, assignor, by mesne assignments, to Metal Display Equipment Company, Muskegon, Mich. Rope measuring device. 2,165,776; July 11.
Witzel, Earl R. (See Humbert, R. L., and Witzel.)
Woare, Amanda S., Devon, Mont. Leg protector. 2,165,601; July 11.
Wolf, Alfon A., Garrett, Ind. Air heater. 2,165,523; July 11.
Wolf, Charles, Portland, Oreg. Timber cutter. 2,165,524; July 11.
Wolfert, Edward R., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Compressor unloader. 2,165,741; July 11.
Wollensak Optical Company. (See Pirwitz, Friedrich A. G., assignor.)
Wood, Orville T., assignor to Blake Manufacturing Corporation, Clinton, Mass. Flashlight. 2,165,602; July 11.
Wood, Wallace H., assignor to Norton Company, Worcester, Mass. Crankshaft lapping machine. 2,166,084; July 11.
Wood, Wallace H., assignor to Norton Company, Worcester, Mass. Lapping machine. 2,166,085; July 11.
Wood, Wallace H., assignor to Norton Company, Worcester, Mass. Crankshaft lapping machine. 2,166,086; July 11.
Woodling, George V. (See Stolz, R. E., and Woodling.)
Wright Aeronautical Corporation. (See Browne, Kenneth A., assignor.)
Wright Aeronautical Corporation. (See Chilton, Roland, assignor.)
Wright Aeronautical Corporation. (See Chilton, A., De Pew, and Chilton, assignors.)
Wyler, Joseph A., assignor to Trojan Powder Company, Allentown, Pa. Melting, casting, and purifying sucrose octanitrate. 2,165,435; July 11.
Yale & Towne Manufacturing Company, The. (See Pritchard, Eugene R., assignor.)
Yale & Towne Manufacturing Company, The. (See Schroeder, Charles, assignor.)
Yeats, Thomas W., Long Beach, Calif. Hand truck. 2,165,603; July 11.
Yerger, Charles W., and G. Todd, assignors to Hanson-Van Winkle-Munning Company, Matawan, N. J. Electrolytic treatment of ferrous metals. 2,165,326; July 11.
Youker, Mortimer A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Increasing plasticity of polymers of substituted butadienes. 2,165,525; July 11.
Young, William T., Canton, and T. L. Fawick, Akron, Ohio. Transmission gearing and brake. 2,165,993; July 11.
Zalkind, Philip, New York, N. Y. Set-up insulation box. 2,165,327; July 11.
Zerkowitz, Guido, Trieste, Italy, assignor to Gesellschaft für Linde's Eismaschinen A. G., Hollriegelskreuth, near Munich, Germany. Turbine for low temperature gas separation. 2,165,994; July 11.
Zimmer, John C., Hillside, and J. B. Holtzclaw, Roselle, N. J., assignors to Standard Oil Development Company. Cutting and cooling lubricant. 2,165,436; July 11.
Zoebelein, Hugo. (See Gruber, W., Thoma, and Zoebelein.)
Zorn, Hermann. (See Haag, W., Hofmann, and Zorn.)
Zorn, Hermann. (See Hoffmann, G. Haag, and Zorn.)
Zückert, Richard, near Budweis, assignor to firm "Koh-i-noor" Tuzkarna L. & C. Hardtmuth, Ces. Budejovice, Czechoslovakia. Manufacture of a multicolor lead. 2,165,827; July 11.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Bearing for earth working tools. W. E. Goble. Des. Re. 21,145; July 11.
Car and the like, Refrigerator. W. F. Kiesel, Jr. Re. 21,147; July 11.
Exposure apparatus for cameras. H. F. Tönnies. Re. 21,149; July 11.
Hosiery dispensing machine. R. C. Hopkins. Des. Re. 21,146; July 11.
Light and operating the same, Source of. E. von Lepel. Re. 21,150; July 11.
Machine for making and inserting metallic fasteners. D. J. Ajouelo and J. L. Moore. Re. 21,141; July 11.
Meter base. W. G. Mylius. Re. 21,148; July 11.
Refrigerating lettuce and the like. W. W. Dodge. Re. 21,144; July 11.
Rack, Towel. R. F. Davis. Re. 21,143; July 11.
Wheel suspension, Independent. F. E. Clemons. Re. 21,142; July 11.

LIST OF DESIGN INVENTIONS

Bedspread. A. Fassler. 115,706–7; July 11.
Bedspread. H. A. Lawson. 115,657; July 11.
Bedspread. H. A. Lawson. 115,672–5; July 11.
Bedspread. R. Steinweg. 115,662–3; July 11.
Bedspring. E. L. Bronstein. 115,701–2; July 11.
Belt. F. M. Blossom. 115,700; July 11.
Bottle or similar article. E. M. Lawrence. 115,656; July 11.
Bowl or similar article, Sugar. M. G. Yutzey. 115,638; July 11.
Box, Display. J. G. Allen. 115,602–3; July 11.
Box or similar article, Electrical wiring. L. H. Peck. 115,726; July 11.
Brassière or similar article. G. A. Kaufmann. 115,705; July 11.
Buckle or similar article. H. Miller and P. Marcelló. 115,719–20; July 11.
Building structure. K. E. Bemis. 115,683; July 11.
Burner, Oil. R. W. Beckett. 115,640; July 11.
Button. S. Baritz. 115,604; July 11.
Button trimming for wearing apparel. S. Baritz. 115,605; July 11.
Cage or similar article, Bird. F. Steinberg. 115,695; July 11.
Carrier, Bottle. G. F. Ford, C. R. Barbee, and P. H. Squires. 115,651; July 11.
Carrier, Milk bottle. W. A. Goodwin. 115,619; July 11.
Case, Clock. R. W. Goulet. 115,620; July 11.
Case or the like, Combined storage and display. C. V. Hill. 115,621; July 11.
Casing for a bread toaster. J. Pavelka, Jr., and V. Cornejo. 115,630; July 11.
Chair or similar article, Metal. I. Salomon. 115,661; July 11.
Comb and brush, Combined toilet. J. Davis. 115,687; July 11.
Comfortable. P. Joseph. 115,653–5; July 11.
Comfortable. P. Joseph. 115,671; July 11.
Desk and play board, Combination. F. B. Robb. 115,660; July 11.
Dispenser, Food. G. Binon. 115,608; July 11.
Doll. E. S. Holden. 115,669; July 11.
Door, Swinging glass. S. F. Cox. 115,612; July 11.
Dress. E. S. Brown. 115,684; July 11.
Dress. E. Staber. 115,694; July 11.
Fabric, Elastic. K. Knak. 115,713–6; July 11.
Fabric, Textile. L. Bry. 115,723–4; July 11.
Fabric, Textile. L. B. Fisch. 115,718; July 11.
Fabric, Textile. A. Y. Toriumi. 115,725; July 11.
Floor machine. F. T. Kent and J. Vandenberg. 115,690; July 11.
Fork or analogous article. H. E. Nock. 115,627; July 11.
Frame, Picture. J. H. Jewett. 115,622; July 11.
Gate, Swinging glass. S. F. Cox. 115,611; July 11.
Goblet or similar article. E. M. Bottome. 115,642–3; July 11.
Handle or similar article for an automotive vehicle, Outside door. G. E. Curtiss. 115,667; July 11.
Handle or similar article for an automotive vehicle, Outside door. W. H. Hollindale. 115,670; July 11.
Hat. L. A. Johnson. 115,704; July 11.
Heater. C. E. Beyer. 115,641; July 11.
Heater, Space. A. W. Becker. 115,699; July 11.
Heel or similar article, Shoe. L. Sholtz. 115,635; July 11.
Holder, Hairpin. L. Hammonds. 115,710; July 11.
Holder, Scarf. J. R. Craighead. 115,613; July 11.
Housing and pedestal for oil burners or the like, Combined blower. R. W. Beckett. 115,680; July 11.
Housing for electrical apparatus, Enclosed. R. H. Olley. 115,709; July 11.
Housing, Spring sash balance. A. H. Kersting. 115,712; July 11.
Iron, Angle. E. L. Bronstien. 115,703; July 11.
Jar. J. L. Hendrickson. 115,652; July 11.
Lace. I. Zendman, Jr. 115,698; July 11.
Lamp or similar article, Manicure. A. A. Ullmo. 115,677; July 11.
Lavatory. G. W. Kohlmeyer. 115,623; July 11.
Lavatory unit. P. Ebling. 115,614; July 11.
Lubricant dispensing apparatus. A. F. Dean. 115,646; July 11.
Musical instrument of a flute-like nature. E. J. Fitchhorn. 115,616; July 11.
Padlock. K. C. Bugg. 115,645; July 11.
Panel for a compact or similar article. G. Rosenberg. 115,676; July 11.
Paper, Safety. J. Mehlman. 115,692; July 11.
Pedestal for oil burners or the like. R. W. Beckett. 115,681; July 11.
Piano. W. Zalser. 115,639; July 11.
Pin cushion and spool holder, Combined. J. F. Uhlir. 115,696; July 11.
Pin or similar article, Brooch. C. Adler. 115,679; July 11.
Plate, Coffee bottle supporting. M. H. Emmer. 115,649; July 11.
Plate or similar article. E. M. Bottome. 115,665–6; July 11.
Plate or similar article. M. G. Yutzey. 115,637; July 11.
Platter or similar article, Serving. S. Forman. 115,617; July 11.
Pomade and holder therefor, Combined hair. F. M. Walte. 115,678; July 11.
Press. W. Ernst and H. Van Doren. 115,650; July 11.
Pump unit, Water. E. E. Eickmeyer, S. L. Butler, and H. J. Rothermel. 115,648; July 11.
Quilt, J. Davis. 115,688; July 11.
Roofing sheet. H. L. Olden. 115,628; July 11.
Self-photographing apparatus. W. W. Rice. 115,631; July 11.
Shade, Torchiere. R. Orth. 115,658; July 11.
Shelf, Wall. W. Y. Farrah. 115,615; July 11.
Shelf, Wall. W. F. Ortwig. 115,629; July 11.
Shoe. N. E. Bovay. 115,610; July 11.
Shoe. A. H. Genting. 115,618; July 11.
Shoe. B. Warshauser. 115,697; July 11.
Shoe heel. M. J. Bernstein. 115,607; July 11.
Shoe or similar article. L. Sholtz. 115,633–4; July 11.
Shoe sole. M. J. Bernstein. 115,606; July 11.
Shoe sole. P. A. Sperry. 115,636; July 11.
Sign. E. C. Brownell. 115,644; July 11.
Sofa or similar article. C. Stoll. 115,664; July 11.
Soldering device, Electric. L. H. Moulthrop. 115,625; July 11.
Spectacles, Pair of semirim. G. P. Kimmel. 115,717; July 11.
Spoon. L. A. Birmingham. 115,609; July 11.
Spoon or other article of flatware. L. S. Mayers. 115,691; July 11.
Spoon or similar article. M. Schulgasser. 115,632; July 11.
Stand, Calendar. C. N. Montanye. 115,624; July 11.
Stand, Calendar. C. N. Montanye. 115,721; July 11.
Stand, Cosmetic display. C. Dorfman. 115,689; July 11.
Stocking. H. Thierfelder. 115,722; July 11.
Switch plate attachment and calendar, Combined electric. H. M. Kidd. 115,708; July 11.
Table, Billiard. D. Deskey. 115,647; July 11.
Timer or similar article, Audible. W. E. Naylor. 115,626; July 11.
Toy vehicle. R. B. Fageol. 115,668; July 11.
Tube for oil burners or the like, Air. R. W. Beckett. 115,682; July 11.
Tumbler or similar article, Vigil candle. H. Rithner. 115,659; July 11.
Valve, Pop. C. C. Mosack. 115,693; July 11.
Washboard. M. L. Irwin. 115,711; July 11.
Wheel, Automotive steering. O. B. Carson. 115,685–6; July 11.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 11TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator control for motor vehicles. H. A. Lilley. 2,165,897; July 11.
Accounting machine. V. O. Wilkerson. 2,165,325; July 11.
Accounting system and machine. W. W. Lasker and W. F. Kelley. 2,165,556; July 11.
Acetylene, Manufacture of. W. H. Smyers. 2,165,820; July 11.
Acid by reaction of nitric acid and arsenious oxide, with recovery of nitric acid, Producing arsenic. B. M. Carter. 2,165,957; July 11.
Acid, Manufacture of arsenic. G. L. Scott. 2,165,944; July 11.
Acids, Separating and recovering aliphytic. G. F. Nadeau and W. E. Fisher. 2,165,293; July 11.
Addressing machine and card feeding mechanism therefor. H. P. Elliott. 2,165,748; July 11.
Adhesive handling apparatus. J. F. Smith. 2,165,767; July 11.
Advertising and warning sign. R. S. Kimball. 2,165,276; July 11.
Advertising apparatus. O. Twele. 2,165,736; July 11.
Age resistor. A. M. Clifford. 2,165,960; July 11.
Air conditioning apparatus. B. Headrick. 2,165,854; July 11.
Air conditioning apparatus. J. P. Nicholson. 2,165,979; July 11.
Air conditioning system. S. M. Anderson. 2,165,829; July 11.
Air conditioning system. W. J. Aulsebrook. 2,165,831; July 11.
Air conditioning system for passenger vehicles. S. M. Anderson. 2,165,830; July 11.
Air circulating system for rolling stock. E. L. Scheuffler. 2,165,580; July 11.
Air conditioning system utilizing refrigeration. S. M. Anderson. 2,165,197; July 11.
Air heater. A. A. Wolf. 2,165,523; July 11.
Aircraft power plant. D. R. Berlin. 2,165,443; July 11.
Aircraft structure. A. P. de Seversky. 2,165,459; July 11.
Alarm. H. A. Gunion. 2,165,893; July 11.
Alcohols, Halogenation of tertiary. B. T. Brooks. 2,165,782; July 11.
Alloy: *See*—
Dental casting alloy.
Alloys, Magnesium. F. Christen. 2,166,039; July 11.
Amines by the catalytic hydrogenation of nitriles, Production of. W. Schmidt. 2,165,515; July 11.
Amines, Preparing secondary aryl. E. W. Cook. 2,165,747; July 11.
Amplifier circuit, Distortion-free. H. Tischner, J. Flurl, and H. Wessels. 2,165,769; July 11.
Amplifier, Piston travel. F. E. Schwentler. 2,165,985; July 11.
Amusement device. A. H. Bland. 2,165,743; July 11.
Ankle support. G. H. Wilkinson. 2,165,879; July 11.
Antenna, Aperiodic. P. S. Carter. 2,165,958; July 11.
Anthraquinone series, Compounds of the. W. Dettwyler. 2,165,618; July 11.
Antigen, Carcinoma. B. Gruskin. 2,165,370; July 11.
Antigen, Sarcoma. B. Gruskin. 2,165,371; July 11.
Alloys, Free-cutting aluminum. A. Beck and H. Bohner. 2,165,441; July 11.
Amine salt preparation for internal medication. F. B. Fisk. 2,165,470; July 11.
Anchorage for securing structural parts to concrete bases. F. Birch. 2,165,882; July 11.
Apparatus and method for grinding and polishing bore holes. E. T. Meakin. 2,165,566; July 11.
Apparatus for creating a layer of secondary air and steam above a hearth. J. Arkin and E. Mille. 2,165,880; July 11.
Applicator. E. E. Rieber. 2,165,508; July 11.
Applicator for planographic printing machines, Material. F. E. Curtis. 2,165,234–5; July 11.
Arrangement for suppressing high frequency interference. L. H. Daniel. 2,165,886; July 11.
Articles, Apparatus for manufacturing plastic. W. Ward. 2,165,671; July 11.
Articles by dipping, Method of and apparatus for coating. E. T. Ferngren. 2,165,364; July 11.
Articles with fluidic material, Mechanism for impregnating. E. L. Miller. 2,165,936; July 11.
Ashtray. R. W. Cotton. 2,165,885; July 11.
Ashtray. R. E. Gordenier. 2,165,544; July 11.
Ashtray. J. Raisler. 2,166,021; July 11.
Audiphone, Bone conduction. H. Koch. 2,165,710; July 11.
Autoclave. C. A. Menzel. 2,165,935; July 11.
Automatic voltage regulator. M. Debrey. 2,165,887; July 11.
Automobile body construction. C. L. Waterhouse, Jr. 2,165,594; July 11.
Automobile heater. W. Karsel. 2,165,269; July 11.
Automobile supporting means. W. S. Helmer. 2,165,376; July 11.
Axle and making same. J. H. Friedman. 2,165,472; July 11.
Axle mounting and driving mechanism for the driving wheels of multiple axle motor road vehicles. O. D. North. 2,165,723; July 11.
Backdraft diverter. F. B. Peters. 2,165,811; July 11.
Bag: *See*—
Golf bag.
Bag. P. Mathiesen. 2,165,869; July 11.
Bait or bug, Cast. C. Stracener. 2,165,734; July 11.
Balloon and producing same. J. F. Boyle. 2,165,610; July 11.
Band width indicator circuit. C. N. Kimball and E. W. Wilby. 2,165,799; July 11.
Bark, Artificial tree. P. J. Fritsch. 2,166,002; July 11.
Base, or emulsifying vehicle, for flavoring agents. H. E. Allen. 2,165,828; July 11.
Beacon, Airport. R. F. Bass and W. L. Rives. 2,165,211; July 11.
Beacon, Radio. C. W. Hansell. 2,165,256; July 11.
Beading and forming machine, Double. R. L. Loggins. 2,165,282; July 11.
Bearing and sealing means. E. S. Bissell. 2,165,916; July 11.
Bed, Sanitary. C. B. Kane. 2,165,385; July 11.
Beer drawing apparatus. J. C. Baker. 2,165,605; July 11.
Belt, conveyer. C. M. MacChesney. 2,165,283; July 11.
Belt, Conveyer. C. M. MacChesney and A. B. Wilson. 2,165,395; July 11.
Belt, Conveyer. G. Stanius. 2,165,422; July 11.
Belt, Conveyer. A. B. Wilson. 2,165,434; July 11.
Belt, Safety life. G. J. Peterson. 2,165,300; July 11.
Bilirubin, Preparing. J. D. Porsche, E. F. Pike, and J. L. Gabby. 2,166,073; July 11.
Billing system, Automatic. C. L. Goodrum, E. E. Hinrichsen, and L. Keller. 2,165,925; July 11.
Binding strip affixing device. A. W. Engel. 2,165,540; July 11.
Bit: *See*—
Roller bit.
Blind actuating mechanism, Venetian. H. K. Lorentzen. 2,165,492; July 11.
Blind, Venetian. L. S. and C. W. Morse. 2,165,292; July 11.
Blood product, Manufacturing of a. J. L. Norman. 2,165,721; July 11.
Blood, Treating. J. L. Norman. 2,165,722; July 11.
Blowout preventer. A. J. and K. T. Penick. 2,165,410; July 11.
Board: *See*—
Panel board.
Boat. E. G. Grant. 2,165,545; July 11.
Boat. J. D. Hunt. 2,165,633; July 11.
Bodies, Dynamic balancing of rotating. W. F. Westendorp. 2,165,992; July 11.
Book support. J. Hamilton. 2,165,255; July 11.
Box: *See*—
Folding box. Paint box.
Set-up insulation box.
Brake: *See*—
Fluid pressure brake. Hydraulic brake.
Vehicle brake.
Brake applying means. F. G. Parnell. 2,165,760; July 11.
Brake mechanism. F. E. Miller. 2,165,978; July 11.
Braking system. T. S. Safford. 2,165,817; July 11.
Bread toasting apparatus, Automatic. R. J. Anderson. 2,165,204; July 11.
Broaching device. T. Maxwell. 2,165,977; July 11.
Broaching machine. R. A. Thompson. 2,165,588; July 11.
Buckle for belts. I. M. Krischer. 2,165,928; July 11.
Building construction. G. F. Kotrbaty. 2,166,095–7; July 11.
Building construction. C. and H. R. Sulter. 2,165,686; July 11.
Burner: *See*—
Oil burner.
Burr cleaner. L. M. McGarry. 2,165,643; July 11.
Butanol and acetone by the fermentation of whey, Production of. A. Frey, H. Glück, and H. Oehme. 2,166,047; July 11.
Cabbage setter, Hand. F. T. Twitchell. 2,165,821; July 11.
Cabinet. A. I. Palmer. 2,166,018; July 11.

Cable attaching means. H. C. Gaither. 2,165,542; July 11.
Cable cutter. N. T. Baldanza. 2,165,209; July 11.
Cable release for time exposures. W. A. Riddell. 2,165,414; July 11.
Calculating machine. T. M. Butler. 2,165,340; July 11.
Calculating machine. F. A. Hosack. 2,166,066; July 11.
Calculating machine for effecting division. J. W. Bryce and A. H. Dickinson. 2,165,220; July 11.
Calculating mechanism, Automatically controlled. R. E. Paris. 2,165,298; July 11.
Camera construction, Folding. C. W. Crumrine. 2,165,346; July 11.
Camera, Photographic. A. S. Howell. 2,165,706; July 11.
Camera, Photographic. J. Mihalyi. 2,165,402; July 11.
Camera periscope. R. M. Schofield. 2,165,512; July 11.
Camera, Reflex. K. Nuchterlein. 2,165,903; July 11.
Cameras, Focusing mechanism for. A. Nagel. 2,165,409; July 11.
Cap for lifting jacks, Swivel. F. L. Gormley. 2,165,366; July 11.
Cap for toe dancing shoes, Toe. C. Schroeder. 2,165,581; July 11.
Cap structure for percolator covers, Glass. A. B. Gardella. 2,165,630; July 11.
Car: *See*—
Motor car.
Car floor construction. D. H. Bell. 2,165,691; July 11.
Car loading apparatus, Freight. G. M. Reifer and G. D. Shanahan. 2,165,652; July 11.
Carbon disulphide from coke-oven light oil, Removing. B. D. Sontag. 2,165,732; July 11.
Carburetor, Pressure metering. K. A. Browne. 2,165,447; July 11.
Carburetors, Hydraulic control for. G. W. Gallihugh. 2,165,628; July 11.
Card holder. M. E. Redmond. 2,165,814; July 11.
Card punching machine. F. L. Fuller. 2,165,249; July 11.
Card punching mechanism. G. H. Kroeger. 2,165,388; July 11.
Card, Statistical. H. O. George. 2,165,250; July 11.
Card, Tally. W. C. Clark. 2,165,612; July 11.
Carpenter's gauge. F. M. Weadon, Jr. 2,165,878; July 11.
Carpet cleaning composition. C. W. Studer, R. G. Roshong, and M. Miller. 2,165,586; July 11.
Carriage way unit for bridges and like structures. L. Galsman. 2,165,846; July 11.
Cartridge for the generation of gas pressures. J. M. Holm. 2,165,263; July 11.
Case: *See*—
Vanity case.
Cash register. C. H. Arnold. 2,165,439; July 11.
Cassette for cinematographic cameras. H. Verkinderen. 2,165,739; July 11.
Catalysts for producing aliphatic acids and producing them. G. P. Waugh. 2,165,428; July 11.
Cathode ray deflecting device. I. G Maloff. 2,165,803; July 11.
Cathode ray device. A. M. Skellett. 2,165,308; July 11.
Cathode ray tube support. A. Blain. 2,165,779; July 11.
Cellulose acetate and producing same. W. Gruber, M. Thoma, and H. Zoebelein. 2,165,850; July 11.
Centering means for drilling machine spindles. G. Möller. 2,166,101; July 11.
Chain: *See*—
Tire chain.
Chain holding device. E. W. Henry. 2,165,377; July 11.
Chair: *See*—
Foldable chair. Screed chair.
Change-speed gear, especially for bicycles. E. Baumgartner. 2,165,201; July 11.
Cigarette machines with tobacco, Apparatus for charging. L. Repper. 2,166,022; July 11.
Circuit: *See*—
Amplifier circuit.
Circuit breaker. J. Sandin. 2,165,511; July 11.
Circuits, Radio. A. Mavrogenis. 2,165,714; July 11.
Clamp: *See*—
Scaffolding clamp. Toggle clamp.
Cleaner: *See*—
Bur cleaner. Thread cleaner.
Vacuum cleaner.
Cleaner for trenching machines. V. S. Penote. 2,165,299; July 11.
Closure fastener. C. H. King. 2,165,896; July 11.
Clutch. E. A. Wales. 2,165,670; July 11.
Clutch for die press or the like. E. H. Hall. 2,166,004; July 11.
Coat and trousers hanger. E. A. Blinn. 2,165,215; July 11.
Coil-condenser assembly for radio receivers. D. P. Earnshaw. 2,165,467; July 11.
Coin counting machine. C. L. Downey. 2,165,240–1; July 11.
Coin-freed control. W. A. Tratsch and W. Patzer. 2,165,590; July 11.
Collar. A. M. Panettieri. 2,165,932; July 11.
Collar, Detachable garment. T. La Maida. 2,166,011; July 11.
Colloids, Gelatinous. J. Reichel. 2,166,074; July 11.
Color correction. A. Murray. 2,165,407; July 11.
Colors, Manufacture of sulphur. H. A. Lubs and G. C. Strouse. 2,165,493; July 11.
Communication system. C. R. Doty. 2,165,237; July 11.
Compensator. R. M. Cutts, Jr. 2,165,457; July 11.
Compounds, Dehydration of moisture-containing. H. F. Wilkie and C. S. Boruff. 2,165,950; July 11.
Compressor unloader. E. R. Wolfert. 2,165,741; July 11.
Condensation product having an amidelike structure. J. Huismann. 2,165,484; July 11.
Condenser: *See*—
Vapor condenser.
Conductor, Tubular. F. Unterbusch. 2,165,737; July 11.
Connection, Electrical cord. E. F. Alstrom, Jr. 2,165,952; July 11.
Connection, Pipe. P. F. Donahue and W. P. Ferguson. 2,165,621; July 11.
Connection, Pipe. P. F. Donahue. 2,165,622; July 11.
Connector: *See*—
Train line connector.
Connector. M. H. Ryan. 2,165,656; July 11.
Contacts, Electrical make and break. F. R. Hensel and K. L. Emmert. 2,165,481; July 11.
Container: *See*—
Lipstick container.
Container and apparatus for transferring the same, Merchandise. R. F. Mattox. 2,165,641; July 11.
Container and closure for same, B. von Bültzingslöwen. 2,165,825; July 11.
Container and filling the same, Portable liquid. F. A. Struck. 2,165,684; July 11.
Container for sludge treatment, Diffuser plate. G. E. Nagel. 2,166,017; July 11.
Containers, Device for filling small. E. Abel. 2,165,604; July 11.
Control device. C. G. Kronmiller and F. D. Joesting. 2,165,555; July 11.
Control device, Electrical. A. H. Brown, Jr. 2,165,694; July 11.
Control device for heating systems. P. Klimis. 2,165,488; July 11.
Control device for luminous tubes, Pressure. T. J. Killian. 2,165,709; July 11.
Control device for refrigerating systems. R. E. Stolz. 2,165,518; July 11.
Control for four-speed portable drilling machines. W. D. Davidson and G. Tremolada. 2,165,350; July 11.
Control for stream-conveyed material. J. E. Mason and F. H. Ballou. 2,165,397; July 11.
Control means for deicing mechanisms for aircraft, Automatic. H. E. Baer. 2,165,198; July 11.
Control mechanism for focal plane shutters. J. Mihalyi. 2,165,403; July 11.
Control system, Remote. H. O. Peterson. 2,165,502; July 11.
Cooking device. R. B. Lawrence. 2,165,712; July 11.
Copper sulphide, Converting. G. T. Traut. 2,165,667; July 11.
Cotton bleaching. H. O. Kauffmann. 2,165,270; July 11.
Counter, Locked pick. H. L. Spaunburg. 2,165,733; July 11.
Counting device. F. Antem. 2,165,527; July 11.
Coupling: *See*—
Elastic coupling.
Coupling device, Angularly adjustable shaft. E. Schaeren. 2,165,658; July 11.
Coupling device, High-frequency. W. J. Polydoroff. 2,165,575; July 11.
Cover: *See*—
Fishhook cover.
Coverings, Manufacture of board strengthened. H. Chambon. 2,166,038; July 11.
Crankshaft lapping machine. H. S. Indge. 2,166,009; July 11.
Crankshaft lapping machine. W. H. Wood. 2,166,084; July 11.
Crankshaft lapping machine. W. H. Wood. 2,166,086; July 11.
Cup. Plaster mixing. P. Ringman. 2,165,679; July 11.
Cup, Sanitary drinking. H. Koch and J. L. Burke. 2,165,277; July 11.
Current control system. J. Slepian. 2,165,911; July 11.
Cutter: *See*—
Cable cutter. Timber cutter.
Cutting die. H. S Lyness. 2,165,394; July 11.
Cutting machine. F. W. Billiker and J. B. Ball. 2,165,953; July 11.
Cylinder forming and filling machine, Combined. H. B. Duane and W. H. Long. 2,165,354; July 11.
Deck supporting device. W. H. Mussey. 2,165,406; July 11.
Deck, Vehicle supporting. G. C. Meyers. 2,165,400; July 11.
Demodulator. H. Pitsch. 2,165,764; July 11.
Dental casting alloy. C. J. Grossman. 2,165,849; July 11.
Dental casting alloy. C. J. Grossman. 2,165,793; July 11.
Denture. S. E. Linchitz. 2,165,558; July 11.
Dentures, Forming. F. Widoe, Sr. 2,165,597; July 11.
Desk. J. F. Dunn. 2,165,244; July 11.
Device for disseminating by steam aqueous solutions, emulsions and mixtures. W. R. Wertz. 2,165,321; July 11.

Device for drawing upon forms, of articles to be finished, such as stockings and other hosiery goods. L. P. Heliot. 2,166,053; July 11.
Device for printing designs on walls, surfaces, or the like. F. Lohrey. 2,165,867; July 11.
Device for slitting fire treads. E. Eger. 2,165,842; July 11.
Dial adding machine. W. C. Thompson. 2,166,081; July 11.
Dial mechanism. S. D. Rydstedt. 2,165,416; July 11.
Die: *See*—
Cutting die.
Diethers or ether-esters, Production of alkylidene. M. Mueller-Cunradi and K. Pieroh. 2,165,962; July 11.
Direction finder. F. W. Sullinger. 2,166,100; July 11.
Dispenser: *See*—
Fluid dispenser. Liquid dispenser.
Sanitary dispenser.
Digger, Potato. J. Reuther. 2,165,653; July 11.
Dipper, Ice cream. R. J. Price. 2,165,941; July 11.
Direction control device. W. R. Koch. 2,165,800; July 11.
Disk filter aid retaining medium, Hollow. J. B. Levy. 2,165,931; July 11.
Display device. F. L. Page and J. K. Jayne. 2,165,724; July 11.
Display device employing polarized light. E. H. Land. 2,165,974; July 11.
Display device, Ornamental. L. L. Greneker. 2,165,474; July 11.
Display figure. L. L. Greneker. 2,165,473; July 11.
Display head. L. L. Greneker. 2,165,476; July 11.
Display structure. L. L. Greneker. 2,165,475; July 11.
Door: *See*—
Metal covered door.
Door handle. F. Brown. 2,165,534; July 11.
Door locking mechanism. A. F. Pruner. 2,165,577; July 11.
Door operator, Electric. E. G. Parvin. 2,165,809; July 11.
Door spring. A. H. Floreth. 2,165,792; July 11.
Dough molding machine for biscuit doughs and the like, Rotary. G. R. Baker and G. D. Wilson. 2,165,528; July 11.
Drill: *See*—
Test drill.
Drill guide. E. F. Jackman. 2,165,485; July 11.
Drill position indicator. R. A. Bossi. 2,165,334; July 11.
Drilling and countersinking machine, Automatic. L. T. White. 2,165,774; July 11.
Drilling machine, Horizontal. J. O. Tilly. 2,165,666; July 11.
Drink vending machine. C. O. Christianson. 2,165,959; July 11.
Drive, Multiple-axle. O. F. Quartullo. 2,166,099; July 11.
Driving means for internal combustion engines. M. J. Farrell. 2,165,791; July 11.
Driving mechanism for motion picture apparatus. H. N. Fairbanks and C. J. Hughey. 2,165,362; July 11.
Driving unit for belt conveyors. T. G. Nyborg. 2,165,759; July 11.
Dry-cleaning fluid. C. Dunbar. 2,165,356; July 11.
Dumping vehicle, Tractor-trailer. A. C. Rasmussen. 2,165,507; July 11.
Duplicating machine. S. Kokay. 2,165,972; July 11.
Dusts, etc., Handling of. C. H. Smith. 2,165,946; July 11.
Dyes and photographic emulsions containing the same, Merocarbocyanine. L. G. S. Brooker and F. L. White. 2,165,338; July 11.
Dyes, Preparation of. L. G. S. Brooker. 2,165,219; July 11.
Dynamo plant, Prime mover. R. L. Humbert and E. R. Witzel. 2,165,969; July 11.
Edges, Apparatus for coating beveled. A. W. Baldwin. 2,165,210; July 11.
Egg grading device. J. A. Templeman. 2,165,423; July 11.
Egg white product and preparing the same. V. D. Littlefield. 2,166,070; July 11.
Elastic coupling. C. Schürmann. 2,165,731; July 11.
Electric conducting element. H. A. M. van Hoffen. 2,165,738; July 11.
Electric discharge device. G. A. Morton and L. E. Flory. 2,165,806; July 11.
Electric iron. T. Cole. 2,165,343; July 11.
Electric lamp. F. N. Mariani. 2,165,563; July 11.
Electric lamp. W. Sobczak and G. Thal. 2,165,987; July 11.
Electric motor. I. Jepson. 2,165,858; July 11.
Electrical control apparatus. W. A. Tolson. 2,165,770; July 11.
Electrical resistance element, alloy, and production thereof. J. L. Thomas. 2,165,316; July 11.
Electrode release attachment for arc lamps. F. C. Coates and H. S. Fowler. 2,165,697; July 11.
Electron discharge device. S. N. Baruch. 2,165,832; July 11.
Enamel frit, White opaque vitreous. I. Kreidl. 2,165,554; July 11.
Engine and engine compressor. H. Capdet. 2,165,222; July 11.
Esters of polynuclear hydroxyketones, Making the. L. Ruzicka. 2,165,655; July 11.
Esters, Production of colorless liquid organic. A. K. Burke and T. J. McKeon. 2,165,450; July 11.
Ethers and making the same, Chlorinated diphenal. C. F. Prutton. 2,165,813; July 11.
Evaporator. M. J. Kermer. 2,165,272; July 11.
Excitation system for dynamo-electric machines. A. Mandl. 2,165,976; July 11.
Exterminator, Insect. M. P. Luther. 2,165,560; July 11.
Extrusion press. A. Kreidler. 2,165,711; July 11.
Eye protector. G. Vaccaro. 2,165,668; July 11.
Fabric, Making a composite. H. Platt and A. B. Snowdon. 2,165,506; July 11.
Fabrics, Sewing of. M. Fellegi. 2,165,469; July 11.
Fan, Portable cooling. R. V. Pfautsch. 2,165,650; July 11.
Fastener: *See*—
Closure fastener.
Fastener. B. C. Place. 2,165,412; July 11.
Fastenery attaching plate for upholstery installations. C. L. Hall. 2,166,052; July 11.
Fastening, Tool handle. O. Schmidt. 2,166,024; July 11.
Fat-hardening process. S. H. Bertram. 2,165,530; July 11.
Faucet attachment. P. A. Greene. 2,165,926; July 11.
Feeder: *See*—
Glass feeder.
Feeding device for liquid fuel and the like, Automatic. T. F. Spackman. 2,165,585; July 11.
Feeler and protector mechanism for single pick automatic looms. J. J. McCann and J. Stuer. 2,166,071; July 11.
Feeding mechanism for shaker or jigging conveyers. W. W. Sloane. 2,165,583; July 11.
Felts, Industrial and paper-makers'. P. H. Walsh and P. T. Gates. 2,165,772; July 11.
Fertilizer and making same. L. Treeland. 2,165,592; July 11.
Fibers, Treating vegetable. J. R. Milson. 2,165,758; July 11.
Filament. C. Spaeth. 2,165,310; July 11.
Filaments, threads, bands, and the like, Manufacture and production of artificial. J. H. Givens. 2,166,051; July 11.
Film winding and gate opening mechanism. A. E. Schubert. 2,165,419; July 11.
Filter: *See*—
Oil filter. Pipe filter.
Finishing and severing tool. B. C. Moise and J. Rae. 2,165,646; July 11.
Fireplace. R. J. Stenquist. 2,165,661; July 11.
Fishhook cover. H. W. G. Jend. 2,165,708; July 11.
Fittings, Producing branch. E. S. Cornell, Jr. 2,165,454; July 11.
Flashlight. O. T. Hood. 2,165,602; July 11.
Flashlight holder, Bracelet. J. F. Fessel. 2,165,625; July 11.
Flatware, Making hollow-handle. W. E. West. 2,165,991; July 11.
Floor and making the same. R. Adam. 2,165,437; July 11.
Floor scrubbing machine. J. S. Benish. 2,165,331; July 11.
Flooring, Flexible wood. A. Elmendorf. 2,165,788; July 11.
Flow meter. M. S. Houser. 2,165,705; July 11.
Fluid control mechanism. J. A. Charter. 2,165,696; July 11.
Fluid dispenser. M. Mazzanobile. 2,165,398; July 11.
Fluid pressure brake. C. C. Farmer. 2,165,999–2,166,001; July 11.
Fluid pressure brake. J. Guillemin Tarayre and A. Neveu. 2,165,980; July 11.
Fluid pressure brake. C. D. Stewart. 2,165,988; July 11.
Fluids from containers, Dispensing. L. Campbell, Jr. 2,165,342; July 11.
Flume control mechanism, Beet. G. J. Daley. 2,165,349; July 11.
Foam, Preparing fire-extinguishing. K. Daimler, M. Paquin, and W. Riedelsberger. 2,165,997; July 11.
Foam stabilizing agent. C. B. Holter and E. L. Stewart. 2,166,008; July 11.
Focusing device for microscopes. R. D. Allison. 2,166,034; July 11.
Foils, films, and similar products, Printing of artificial. W. H. Moss. 2,165,499; July 11.
Foldable chair. J. A. Barie. 2,165,529; July 11.
Folding box. S. Reich. 2,165,906; July 11.
Follower for filing cabinets. A. C. Strayer. 2,166,026; July 11.
Footwear. E. B. Ward. 2,165,749; July 11.
Form, Concrete wall. R. F. Phillips. 2,165,905; July 11.
Formylmethylene compounds, Heterocyclic. L. G. S. Brooker. 2,165,692; July 11.
Formylmethylene derivatives. L. G. S. Brooker. 2,165,218; July 11.
Fountain, Self-cleaning water. T. R. Hobbs. 2,165,753; July 11.

4,4'-tricarbocyanine salts and their preparation. L. G. S. Brooker. 2,165,337; July 11.
Frame: *See*—
Quilting frame.
Retouching and stripping frame.
Fraud detecting device for coin-controlled apparatus. T. R. Freeman and W. S. Freeman. 2,165,471; July 11.
Freezer and cube crusher, Combined. W. H. Prichard. 2,165,763; July 11.
Fruit girth. C. J. Schneider. 2,165,417; July 11.
Fruits and vegetables, Treatment of. S. Levison. 2,165,557; July 11.
Fuel consumption indicator. L. K. Davis. 2,165,839; July 11.
Fuel, Method and apparatus for producing motor. P. A. Maschwitz. 2,165,804; July 11.
Fuel, Motor. H. V. Rees and J. C. D. Oosterhout. 2,165,651; July 11.
Furnace: *See*—
Sawdust burning furnace.
Furnace. E. G. Bailey. 2,165,207; July 11.
Furrow basin forming attachment for cultivators. J. M. Dalimata. 2,166,042; July 11.
Fuse and assembling same, Electric. A. E. and H. C. Alberga. 2,166,033; July 11.
Fuse, Electric. G. N. Lemmon. 2,165,636; July 11.
Gaff hook. A. R. Eastman. 2,165,245; July 11.
Game. E. H. Freedman. 2,165,891; July 11.
Game table. I. Ruit. 2,165,907; July 11.
Garment. W. A. Boetcker. 2,166,088; July 11.
Garment. T. La Maida. 2,166,012; July 11.
Garment cleaning system. G. W. Johnson. 2,165,487; July 11.
Garment, Suspensory. T. La Maida. 2,166,010; July 11.
Gas absorption. F. H. Kranz. 2,165,490; July 11.
Gas liquid contact apparatus and method. F. H. Kranz. 2,165,489; July 11.
Gas, Manufacture of high calorific value. A. Johnson and M. M. Brandegee. 2,166,094; July 11.
Gas mapping. G. S. Bays. 2,165,440; July 11.
Gas meter. W. H. Knight, Jr. 2,165,387; July 11.
Gases and vapors, Absorbing and condensing digestion. A. D. Merrill and T. L. Dunbar. 2,165,644; July 11.
Gases, Treatment of acid. L. J. Burrage. 2,165,784; July 11.
Gate for thermoplastic molds. J. S. Reid. 2,165,762; July 11.
Gauge: *See*—
Carpenter's gauge. Linear dimension gauge.
Gauge. L. Bennett. 2,165,881; July 11.
Gear: *See*—
Reduction gear.
Gear for airplanes, Retractable alighting. P. G. Ehrhardt and A. Sprater. 2,165,465; July 11.
Gear for machine tools, especially lathes, Speed changing. O. Schaerer. 2,165,730; July 11.
Gears and the like, Lapping the curved surface of. A. W. Klomp. 2,165,386; July 11.
Gel and making the same, Hydrous silicate. E. W. Rembert. 2,165,578; July 11.
Generator: *See*—
Oscillation generator.
Generator for television. H. E. Rhea. 2,165,815; July 11.
Geophysical prospecting with short electromagnetic waves. L. W. Blau and W. B. Lewis. 2,165,214; July 11.
Glass, Apparatus for feeding molten. J. H. Thomas and E. Fletcher. 2,165,318; July 11.
Glass feeder. E. J. Rush. 2,165,873; July 11.
Glow discharge device. R. B. Morgan. 2,165,805; July 11.
Golf bag. R. E. Thompson. 2,165,665; July 11.
Grading and marking, Apparatus for. K. E. Conn. 2,165,613; July 11.
Grille construction. J. Oswald. 2,165,648; July 11.
Grinding machine. M. I. Mathewson and A. L. Krause. 2,165,898; July 11.
Grip for handles. H. L. Fletcher. 2,166,044–5; July 11.
Guard, Brake gear safety. D. M. Light. 2,165,864; July 11.
Guide for warp knitting machines, Laying machine. E. H. Wirth. 2,166,032; July 11.
Hair dressing appliance. I. C. Molleson. 2,165,716; July 11.
Hair trimmer. H. Lewis. 2,165,391; July 11.
Handbag structure. G. S. Merk. 2,165,901; July 11.
Handle: *See*—
Door handle.
Hanger: *See*—
Coat and trouser hanger.
Hat brim stretching mechanism. R. G. Muller. 2,165,717; July 11.
Heat exchange apparatus, Fluid. E. G. Bailey. 2,165,208; July 11.
Heat exchange apparatus, Fluid. R. M. Hardgrove. 2,165,258; July 11.
Heater: *See*—
Air heater. Orchard heater.
Automobile heater. Portable heater.
Heater and defroster, Combined. C. L. Cope. 2,165,615; July 11.
Heating system operating by heat radiation, Electric. B. Jaspers. 2,165,970; July 11.
Heel, Detachable and replaceable. V. A. Lippert. 2,165,281; July 11.
Height and decentration device, Bifocal. V. Campos, III. 2,166,037; July 11.
High frequency lines, Protection of. A. Gothe, W. Buschbeck, and W. Kautter. 2,165,848; July 11.
Hoisting mechanism. J. F. Joy. 2,165,895; July 11.
Holder: *See*—
Card holder. Flashlight holder.
License card holder.
Holder and sign, Adjustable. J. Weinhart. 28,165,595; July 11.
Holder for cooking utensil covers, Article. A. Rosenthal. 2,165,654; July 11.
Holder for manufacturing frozen confections on sticks, Stick. E. L. Elwell. 2,165,789; July 11.
Holder for paper bags and the like. R. F. Bateman. 2,165,606; July 11.
Holding device for containers, Movable. A. S. Moffat. 2,165,567; July 11.
Hood or cabinet for bottled gas systems. H. E. Double. 2,166,043; July 11.
Hook: *See*—
Gaff hook.
Hose bridge device. E. J. Wendell. 2,166,031; July 11.
Hosiery, Nonrun. F. E. Struve. 2,165,520; July 11.
Humidifier. W. S. Burgess, Jr. 2,165,783; July 11.
Hydraulic brake. C. P. and G. P. Mayhew. 2,165,564; July 11.
Hydraulic motor. F. B. Hall, F. G. Treat, and H. F. Walton. 2,165,966; July 11.
Hydrocarbons, Conversion of. H. V. Atwell. 2,165,526; July 11.
Hydrocarbons, Cracking. H. L. Pelzer. 2,165,725; July 11.
Hydrocarbons, Treatment of. C. G. Gerhold. 2,165,631; July 11.
Hydrocolloid composition and method of making, Plastic. J. W. H. Stangenberg, W. S. Crowell, and C. V. Gross. 2,165,680; July 11.
Hydrophobic properties to cellulose fibers, Imparting. F. E. Hubert, E. Helsenberg, A. Steindorff, and L. Orthner. 2,165,265; July 11.
Ice, Method of and apparatus for cubing. W. C. Pfeil. 2,165,573; July 11.
Illuminated sign. C. W. Brady and R. J. Robinson. 2,165,835; July 11.
Illuminated sign. J. A. Howenstine. 2,165,550; July 11.
Images, Method of and material for producing multicolor. B. Gáspár. 2,166,049; July 11.
Impulse sender for use in telephone systems. C. C. Puckette. 2,165,766; July 11.
Indicator: *See*—
Drill position indicator.
Fuel consumption indicator.
Indicator or telltale, Illumination. W. F. Matson. 2,165,899; July 11.
Ink and the marking of textile materials. W. I. Taylor and L. B. Gibbins. 2,165,522; July 11.
Insecticide and its preparation. P. W. Jewel and W. E. Bradley. 2,165,486; July 11.
Instrument cluster cabinet. G. Snyder and G. S. Lawson. 2,165,660; July 11.
Insulator and making the same, Electric. E. Alberg-Schönberg. 2,165,819; July 11.
Insulator for communication systems. H. H. Wheeler and O. McGinnis. 2,165,773; July 11.
Interlock system. R. L. Kirk. 2,166,061; July 11.
Invalid walking support. H. Glynn. 2,165,700; July 11.
Iron: *See*—
Electric iron. Spray iron.
Jack: *See*—
Knitting jack. Lifting jack.
Jacket and pack, Combination outdoor. O. C. Dalber. 2,165,348; July 11.
Jacquard mechanism, Electric. J. H. Bromley, Jr. 2,165,446; July 11.
Jar lifter. G. W. and D. E. Hubbard. 2,165,264; July 11.
Jet discharging apparatus. F. W., W. D., and A. E. Sparling. 2,165,908; July 11.
Joint: *See*—
Lap joint. Pipe joint.
Journal box end thrust arrangement. M. P. Blomberg. 2,165,645; July 11.
Journal box guide means. J. B. Swan. 2,165,662; July 11.
Juice heating unit. G. H. Tay. 2,166,027; July 11.
Kerf-cutting machine. T. E. Pray. 2,165,675; July 11.
Kerosene, Stabilized. A. P. Hewlett and G. E. Phillips. 2,165,261; July 11.
Kit, Emergency lighting. A. and M. W. Mack. 2,165,562; July 11.
Knitting jack. A. D. Elchner. 2,165,464; July 11.
Knives in a type casting machine, Lubricating the side-trimming. G. L. Curle. 2,165,347; July 11.
Knock-out. W. H. Keller. 2,166,057; July 11.
Label and marker for lantern slides. A. W. Engel. 2,165,790; July 11.
Lamp: *See*—
Electric lamp.
Lamp control means. G. Trippe. 2,165,688; July 11.
Lamp for vehicles, Head. G. Trippe. 2,165,689; July 11.

Lamp house and lamp mounting adapted therefor, Projection. B. Stechbart. 2,165,681; July 11.
Lantern, Electric. A. B. Bertrand. 2,165,531; July 11.
Lap joint. W. Kroier. 2,166,064; July 11.
Lapping machine. W. H. Wood. 2,166,085; July 11.
Lathe and other machine tools. D. Gregory. 2,165,751; July 11.
Lead, Manufacture of multicolor. R. Zückert. 2,165,827; July 11.
Leather, Production of. D. M. McQueen. 2,165,870; July 11.
Leg protector. A. S. Woare. 2,165,601; July 11.
Lens. G. H. Aklin and F. E. Altman. 2,165,328; July 11.
Lens attachment. C. W. Frederick and W. Schade. 2,165,365; July 11.
Lettering. E. W. Krauter. 2,165,861; July 11.
Lever, Adjustable length. A. J. Desing. 2,165,460; July 11.
License card holder. C. G. Krook. 2,165,389; July 11.
Lid for hermetically sealed cans or boxes. T. Norland. 2,165,720; July 11.
Lifter: *See*—
Jar lifter.
Lifting jack, Hydraulic. F. L. Gormley and H. S. Brown. 2,165,367; July 11.
Light-polarizing body. E. H. Land. 2,165,973; July 11.
Lighter and case, Combined cigarette. S. De Silvestro. 2,165,998; July 11.
Lightning arrester. R. H. Earle and A. G. Steinmayer. 2,165,964; July 11.
Limestone, Treatment of. T. C. Taylor. 2,165,735; July 11.
Line-retrieving apparatus. F. Holmes and V. G. Klein. 2,166,054; July 11.
Linear dimension gauge, Automatic. E. E. Oehmichen. 2,165,647; July 11.
Lining, Glued Jordan. H. D. Stuck. 2,165,947; July 11.
Link, Cable end. J. P. Ratigan. 2,165,413; July 11.
Lipstick container. A. C. Hoffman. 2,165,632; July 11.
Liquid dispenser. J. Olson and H. E. Dahlstrom. 2,165,570; July 11.
Liquid measuring device, Gravity. G. E. McConnell. 2,165,565; July 11.
Liquid substances, Solidified normally. S. Jacobowitz. 2,165,857; July 11.
Liquids, Aeration of. A. J. Fischer and N. B. Lund. 2,165,889; July 11.
Liquids with sulphur dioxide, Treatment of. A. C. Pope and W. E. Pfleger. 2,166,072; July 11.
Loading mechanism, Side discharge. E. M. Arentzen. 2,165,205; July 11.
Lock. Y. Björck. 2,165,202; July 11.
Lock. R. L. Kirk. 2,166,060; July 11.
Lock. R. H. Winslow and M. J. Sheffield. 2,165,775; July 11.
Lock for interlock systems. R. L. Kirk 2,166,059; July 11.
Locking means for fuel tank caps. F. E. Schneider. 2,165,659; July 11.
Locking mechanism, Keyless. S. Pello. 2,165,674; July 11.
Locomotives, Idle-running and starting device for poppet valve geared steam. H. Lentz. 2,165,755; July 11.
Looms, Pile wire motion for. J. W. Foster. 2,165,890; July 11.
Loudspeaker system. E. Brandt. 2,165,781; July 11.
Lubricant, Cutting and cooling. J. C. Zimmer and J. B. Holtzclaw. 2,165,436; July 11.
Lubricant overbalance for table rolls, Automatic. E. E. Berry. 2,165,442; July 11.
Lubricating system for motor vehicle engines. W. R. Spiller. 2,165,909; July 11.
Machine for attaching heel portions. F. L. Brandt. 2,165,919; July 11.
Machine for fastening uppers to insoles. K. Engel and C. S. Kinney. 2,165,361; July 11.
Machine for making wrappers. M. J. Milmoe and C. J. Malhiot. 2,165,289; July 11.
Machine for shaping uppers over lasts. C. E. Hood. 2,165,262; July 11.
Magnesium, Producing electrolytic. S. L. Madorsky. 2,165,284; July 11.
Magnesium and like metals which sublime from their ores and compounds, Separating. H. A. Blackwell and W. L. Turner. 2,165,742; July 11.
Magnetic variations into electric variations, Translating. A. M. Skellett. 2,165,307; July 11.
Mat, Method and apparatus for forming a fibrous. G. M. Lannan. 2,165,280; July 11.
Material and making same, Decorated. L. Lilienfeld. 2,165,393; July 11.
Material and product thereof, Treatment of textile. L. Lilienfeld. 2,165,392; July 11.
Material, Apparatus for creping sheet. H. Rosenfeld and J. Morhard. 2,165,728; July 11.
Material from waste liquor, Solid. H. S. Colton. 2,165,344; July 11.
Material, Resilient flame-resistant gasket. A. Oass. 2,165,296; July 11.
Material, Sheet. W. F. H. Mattlage. 2,165,286; July 11.
Material, Treating pectin-containing raw. P. B. Myers. 2,165,902; July 11.
Materials, Disintegration, dispersion, stabilization, and collection of solid. L. M. McBride. 2,165,287; July 11.
Materials, Making pyroxylin coated. R. B. Mitchell. 2,165,291; July 11.
Measuring, recording, and control system, Electrical. V. E. Rosene. 2,165,510; July 11.
Metal and manufacture, Sheet. N. P. Goss. 2,165,368; July 11.
Metal, Apparatus for casting. F. W. and V. Harbord. 2,166,006; July 11.
Metal covered door. E. Weisfeld. 2,165,430; July 11.
Metal device for threaded fasteners, Adapting sheet. B. C. Place. 2,165,765; July 11.
Metal sheet piling apparatus. G. E. Black. 2,165,918; July 11.
Metal straightening machine, Portable hydraulic. E. M. Pfauser. 2,165,503–4; July 11.
Metal tube, Reinforced. H. P. Nordmark. 2,165,294; July 11.
Metals, Casting. K. Seaver. 2,165,945; July 11.
Metals, Electrolytic treatment of ferrous. C. W. Yerger and G. Todd. 2,165,326; July 11.
Metals, Process and bath for cleaning. J. Harmon and D. M. McQueen. 2,165,852; July 11.
Metals, Treating cold-rolled. J. O. Keighley. 2,165,635; July 11.
Meter: *See*—
Flow meter. Gas meter.
Modulation meter.
Meter case, Polyphase. S. S. Green. 2,166,003; July 11.
Meter cylinder, Fluid pressure operated. P. F. Rossmann. 2,165,942; July 11.
Meter setter. J. L. Ford. 2,165,626; July 11.
Mill: *See*—
Needle roll cold reduction mill.
Mineral matter, Bleaching. F. W. Binns. 2,165,532; July 11.
Minerals may be melted, Means whereby. D. C. Drill. 2,165,242; July 11.
Miniature airplane wheel. M. L. Chappell. 2,165,536; July 11.
Mining machine. L. E. Mitchell. 2,165,404; July 11.
Minnow, Artificial. P. E. Gasque. 2,166,050; July 11.
Minnow catcher. W. Stein and R. C. Price. 2,165,516; July 11.
Mirror, Hand. M. H. Storch. 2,165,683; July 11.
Mixing device. F. J. Muench. 2,165,568; July 11.
Mixtures of liquid and solid constituents, Separation of. E. V. Murphree and E. D. Reeves. 2,165,807; July 11.
Modulation meter. W. Buschbeck. 2,165,836; July 11.
Modulation, Method and means for. J. L. Finch. 2,165,844; July 11.
Molding, Trim. C. E. McCormick. 2,165,399; July 11.
Mop. S. P. Vaughn. 2,165,319; July 11.
Motion, Apparatus for reproducing rotary. R. Münnich and H. Blechschmidt. 2,165,719; July 11.
Motion transmitting and control apparatus. J. Hornack. 2,165,754; July 11.
Motor: *See*—
Electric motor. Hydraulic motor.
Motor car, Turbo-electric railway. K. Schmer. 2,165,982; July 11.
Motor control system, Electric. J. R. Taylor. 2,165,521; July 11.
Motor for warning signals and the like, Electromagnetic. T. J. Scofield. 2,165,582; July 11.
Motor vehicle. F. C. Best. 2,165,332; July 11.
Motors, Control of alternating current. J. D. Leitch. 2,165,491; July 11.
Mount, Adjustable. H. D. Hume and J. E. Love. 2,165,382; July 11.
Mount for firearms, Telescope. F. L. Humeston. 2,165,796; July 11.
Mount, Vehicle engine. S. A. Oliver. 2,165,297; July 11.
Mounting: *See*—
Resilient mounting. Roof speaker mounting.
Mounting for internal combustion engines, Flexible. J. H. S. and J. K. Gardner. 2,165,750; July 11.
Mounting for rock drills. D. W. Hart. 2,165,853; July 11.
Mower, Lawn. C. Iverson. 2,165,551; July 11.
Mowing apparatus, Lateral. H. G. Harmen. 2,165,851; July 11.
Multiplying machine. J. M. Cunningham. 2,165,230; July 11.
Multiplying machine. H. H. Keen. 2,165,271; July 11.
Multiutilitarian cooling and serving cabinet. V. F. Vaclavik. 2,165,822; July 11.
Music, Apparatus for the production of. C. T. Jacobs. 2,165,707; July 11.
Napkin machine, Paper. P. J. Christman. 2,165,780; July 11.
Navigation instrument. W. C. Wademan. 2,165,690; July 11.
Necktie inserter. D. G. Evans. 2,165,624; July 11.
Needle roll cold reduction mill. E. B. Hudson and R. S. Burns. 2,165,266; July 11.
Nest, Bird. H. Novack. 2,165,295; July 11.
Noise recording system, Antiground. G. L. Dimmick. 2,165,787; July 11.
Nonpulsating pump, Constant flow. W. H. Curtis. 2,165,963; July 11.

Noodle making machine. H. C. Mun. 2,165,718; July 11.
Nozzle, Fertilizing. D. R. Martin. 2,165,868; July 11.
Oil, Apparatus for treating. L. A. Holmes. 2,165,703; July 11.
Oil burner. E. L. Bauer. 2,165,212; July 11.
Oil burner. A. R. Hoeft. 2,166,065; July 11.
Oil filter. J. F. Werder. 2,165,826; July 11.
Oil fractions, Treating lubricating. C. R. Wagner. 2,165,949; July 11.
Oil, Fuel. M. Pier and E. Donath. 2,165,940; July 11.
Oil, Production of high quality lubricating. W. Haag, G. Hofmann, and H. Zorn. 2,165,372; July 11.
Oil, Refining hydrocarbon. R. E. Manley. 2,165,638; July 11.
Oil, Solvent refining mineral. F. W. Hall. 2,166,005; July 11.
Oil, Stable blended. P. J. Wiezevich and J. I. Wasson. 2,165,324; July 11.
Oils, Cracking hydrocarbon. P. J. Sweeny. 2,165,587; July 11.
Oils of high viscosity index and making the same. J. M. Whiteley. 2,165,432; July 11.
Oils, Production of lubricating. G. Hofmann, W. Haag, and H. Zorn. 2,165,373; July 11.
Oiler, O. H. Jung, and P. E. Heffelfinger. 2,165,634; July 11.
Oiler for testing visible contents, Hand. C. A. Killmeyer. 2,165,860; July 11.
Opener, Can. W. M. Milne. 2,165,715; July 11.
Orchard heater. H. J. Lambert and E. R. Merlfield. 2,165,279; July 11.
Ore minerals, Flotation of oxide. M. Vogel-Jorgensen. 2,165,268; July 11.
Ores, Concentrating. J. Harwood and W. O. Pool. 2,166,093; July 11.
Ores, Recovering the values from. G. Blow. 2,165,607; July 11.
Orifice control device. J. Canetta. 2,165,995; July 11.
Ornament construction. W. C. Boots. 2,165,216; July 11.
Oscillation generator. D. H. Ring and W. T. Wintringham. 2,165,509; July 11.
Oscillation generator. G. H. Stevenson. 2,165,517; July 11.
Oscillations, Detecting and measuring ultra short wave. H. Pigge. 2,165,726; July 11.
Oscillator, High frequency. J. F. Farrington. 2,165,468; July 11.
Package. H. T. Dahlgren. 2,165,539; July 11.
Packaging machine. R. N. Doble. 2,165,841; July 11.
Packer. F. A. Thaheld. 2,165,687; July 11.
Packing, Mechanical. E. A. France. 2,165,845; July 11.
Paint box, Water color. C. C. Conway, Jr., and C. C. Morrison. 2,165,345; July 11.
Paint striper. R. A. Pfieger. 2,165,812; July 11.
Panel board. M. H. Albers. 2,165,203; July 11.
Paper feeding mechanism. F. E. Curtis. 2,165,232; July 11.
Paper machine suction slice. L. Hornbostel. 2,165,549; July 11.
Parachutes, Device for time-controlling the opening of. W. Bird and D. R. Clark. 2,165,954; July 11.
Permanent waving apparatus. A. G. Johnson. 2,165,552; July 11.
Pest control. R. F. Bacon and I. Bencowitz. 2,165,206; July 11.
Phase modulation. M. G. Crosby. 2,165,229; July 11.
Phenols, Chloro-methyl alkyl. A. Brunner. 2,165,956; July 11.
Phenylmercuric compounds, Preparing. D. B. Bradner. 2,165,533; July 11.
Phenyl methyl pyrazyl phenyl methyl pyrazolone, Preparation of. A. B. Boese, Jr. 2,165,445; July 11.
Phonograph and radio, Combined automatic. M. Lehman. 2,165,713; July 11.
Phonograph pick-up, Electronic. J. C. Sampson. 2,165,981; July 11.
Phosphates, Manufacture of ignited. F. Rüsberg. 2,165,729; July 11.
Phosphates, Preparation of soluble. E. A. Taylor. 2,165,948; July 11.
Photographic developer. L. C. Jones, R. B. Barnes, and G. P. Ham. 2,165,797; July 11.
Photographic emulsion. L. G. S. Brooker. 2,165,339; July 11.
Photographic emulsions, Hardening. S. E. Sheppard and R. C. Houck. 2,165,421; July 11.
Photographic objective. J. G. Capstaff and O. E. Miller. 2,165,341; July 11.
Picture apparatus, Motion. H. N. Fairbanks. 2,165,363; Pigment. S. S. Svendsen. 2,165,315; July 11.
Pigment and preparing the same, White titanium. W. F. Washburn, R. Dahlstrom, and A. T. McCord. 2,166,082; July 11.
Pipe filter. J. B. Clyne. 2,165,537; July 11.
Pipe joint. H. A. Burnip. 2,165,920; July 11.
Pipe joint, Metal. A. Stephenson. 2,166,078; July 11.
Piston. R. W. Doeg. 2,165,619; July 11.
Planting device. A. G. Thomas. 2,165,663–4; July 11.
Plasticity of polymers of substituted butadienes, Increasing. M. A. Youker. 2,165,525; July 11.
Plasticizer. C. F. Winans. 2,165,951; July 11.
Platinum metal compounds and making them. E. F. Rosenblatt. 2,166,076; July 11.
Plow, Snow. R. E. Stevenson. 2,165,314; July 11.
Plug: *See*—
Top cementing plug.
Pocket. A. Felt. 2,165,843; July 11.
Polishing machine. J. P. Cox. 2,165,616; July 11.
Polyamides, Preparation of. G. D. W. Graves. 2,165,253; July 11.
Pop valve. C. A. Campbell and L. A. Safford. 2,165,611; July 11.
Poppet valve, Rotating and adjustable. G. W. Douglas and J. J. Dewey. 2,165,239; July 11.
Portable heater. W. L. Lamkin. 2,165,390; July 11.
Pot, Dash. L. J. Nowak, Jr. 2,165,501; July 11.
Power conversion, Electric. G. T. Southgate. 2,165,309; July 11.
Power lift implement. F. D. Jones. 2,165,859; July 11.
Power-plant control apparatus. K. Schmer. 2,165,983; July 11.
Power plant, Multiple engine. A. Chilton, C. C. De Pew, and R. Chilton. 2,165,453; July 11.
Power transmission mechanism. F. C. Reggio. 2,165,872; July 11.
Press: *See*—
Extrusion press.
Press for cutting sheet metal. C. J. Rhodes. 2,165,676; July 11.
Pressure actuated valve. R. C. Hughes. 2,165,267; July 11.
Price marking appliance, Hand. F. Kohnle. 2,166,069; July 11.
Printers blanket. R. E. Thomas. 2,165,317; July 11.
Printing machine. H. P. Brownsey. 2,165,535; July 11.
Printing machine. F. E. Curtis. 2,165,231; July 11.
Printing mechanism. M. Garbell. 2,165,922; July 11.
Printing mechanism. L. J. Herman. 2,165,260; July 11.
Printing plates on drums, Attaching. F. E. Curtis. 2,165,233; July 11.
Printing telegraph system. H. W. Kloid and O. F. Schulz. 2,165,971; July 11.
Propelling and lifting mechanism. H. E. McLaughlin. 2,165,757; July 11.
Protective device for poppet valves. E. Rector. 2,165,871; July 11.
Protector: *See*—
Eye protector. Leg protector.
Protein and producing the same, Modified. R. D. Coghill. 2,165,837; July 11.
Puller. C. Schroeder. 2,165,984; July 11.
Puller and hoe, Two-in-one weed. B. A. Mikkelson. 2,166,015; July 11.
Pump: *See*—
Nonpulsating pump.
Punching machine. E. J. Rabenda. 2,165,302; July 11.
Quilting frame. T. D. and A. M. McCall. 2,165,496; July 11.
Race courses, Arrangement for controlling the start in. T. H. Engholm and G. Hernes. 2,165,749; July 11.
Race starting device. G. Nancarrow. 2,165,937; July 11.
Racket. H. Goerke. 2,165,701; July 11.
Radiation of heat from center-mounted horizontal engines. J. G. Holmstrom. 2,165,795; July 11.
Radio apparatus. M. J. Huggins. 2,165,483; July 11.
Radio control device. T. D. Bross. 2,165,693; July 11.
Radio receiver. W. Runge and A. Kunze. 2,165,304; July 11.
Radio receivers, Automatic regulation in. S. Y. White. 2,165,596; July 11.
Rails, Apparatus for cooling. J. Johnston. 2,166,056; July 11.
Ratchet mechanism for winches. C. C. Martin. 2,165,756; July 11.
Razor, Electric. F. K. Schwarz. 2,166,025; July 11.
Reaction products of a meta-substituted phenol and formaldehyde. H. Hönel. 2,165,380; July 11.
Receiver, Phase modulation. H. E. Goldstine. 2,165,252; July 11.
Record controlled machine. A. E. Gray. 2,165,254; July 11.
Recorder, Impulse. M. C. Batsel. 2,165,777; July 11.
Recording device. F. L. Pankau. 2,166,019; July 11.
Recording system for telephone conversations. H. S. Heller. 2,165,546; July 11.
Rectifying means for printing mechanism. M. Garbell. 2,165,923; July 11.
Reduction gear. R. Chilton. 2,165,462; July 11.
Reel: *See*—
Rotary reel.
Reflector. F. A. McGuire. 2,165,900; July 11.
Refrigerating apparatus. R. W. Doeg. 2,165,620; July 11.
Refrigerating apparatus. R. W. Hastings. 2,165,480; July 11.
Refrigerating apparatus. L. A. Philipp. 2,165,505; July 11.
Refrigerating control device. R. E. Stolz and G. V. Woodling. 2,165,519; July 11.
Register, Cash. F. L. Fuller. 2,165,248; July 11.
Regulating apparatus and method. A. F. Spitzglass. 2,166,077; July 11.
Regulating apparatus for fuel injection pumps of internal combustion engines. E. Schaeren. 2,165,657; July 11.

Regulator: *See*—
Automatic voltage regulator. Temperature regulator.
Relay. O. S. Field. 2,166,091; July 11.
Relay. W. F. Kannenberg. 2,165,798; July 11.
Remoting machine. R. C. Rose. 2,166,023; July 11.
Resilient mounting. F. L. Haushalter. 2,165,702; July 11.
Retaining device. S. J. Fisher. 2,165,699; July 11.
Retouching and stripping frame. A. H. Gaebel and A. K. Hansen. 2,165,965; July 11.
Return-ball equipment for billiard tables and the like. W. B. Sawyer. 2,165,875; July 11.
Reversing arrangement for document reproducing machines. A. E. Schubert. 2,165,418; July 11.
Rheostat switch. H. W. Batcheller. 2,165,199; July 11.
Riveting and punching or like apparatus, Explosively actuated under water. P. Cox. 2,166,041; July 11.
Rock drilling mechanism. C. F. Osgood. 2,165,904; July 11.
Roll forging machine. J. H. Gettig. 2,165,543; July 11.
Roll handling tool. W. R. Duda. 2,165,921; July 11.
Roll, Pin ticket. J. Weimont. 2,165,672; July 11.
Roller bit. H. C. Smith and J. T. Phipps. 2,165,584; July 11.
Roof speaker mounting. J. H. Little. 2,165,637; July 11.
Roofing. P. Logan. 2,165,866; July 11.
Room, Cold storage locker. R. W. Smith. 2,165,513; July 11.
Rope measuring device. G. A. Witt. 2,165,776; July 11.
Rotary reel. H. D. Hume and J. E. Love. 2,165,381; July 11.
Rotor, Pump. D. Murphy. 2,165,808; July 11.
Rounder. F. Marasso. 2,165,495; July 11.
Rubber and product thereof, Preserving. R. F. Dunbrook and B. J. Humphrey. 2,165,623; July 11.
Rubber, Bonding resilient. E. L. Scholl. 2,165,818; July 11.
Rubber compositions, Vulcanized. H. B. Townsend. 2,165,589; July 11.
Rubber of high apparent density, Manufacture of chlorinated. R. L. Stern. 2,165,682; July 11.
Rule, Lumber. A. Waeltz. 2,166,030; July 11.
Safety control equipment. E. E. Hewitt and D. L. McNeal. 2,166,007; July 11.
Safety system. J. A. Obermaier. 2,165,569; July 11.
Safety wheel. A. F. Paselk. 2,165,810; July 11.
Sanitary dispenser. E. A. Martin. 2,165,933; July 11.
Sausage-linking machine. E. A. Mummé. 2,165,673; July 11.
Sawdust-burning furnace. A. J. Longtin. 2,165,802; July 11.
Scaffolding clamp. J. Burton. 2,165,221; July 11.
Scale, Computing. P. W. Kimball. 2,165,275; July 11.
Screed chair. G. B. Bosco. 2,165,333; July 11.
Screw blanks, Apparatus for making. J. J. Tomalis. 2,165,424; July 11.
Screws, Making recessed head. J. J. Tomalis. 2,165,425; July 11.
Seaming and pinking machine, Combined. G. Stevenson. 2,165,312; July 11.
Seat: *See*—
Valve seat. Vehicle seat.
Seat for amusement devices. L. U. Eyerly. 2,165,698; July 11.
Self-starter for engines. B. H. McManeus. 2,166,014; July 11.
Sequence operation control and interlock system. R. L. Kirk. 2,166,058; July 11.
Servomotor system for aircraft. B. G. Carlson. 2,165,451; July 11.
Set-up insulation box. P. Zalkind. 2,165,327; July 11.
Shade. W. Wade. 2,165,669; July 11.
Sharpener, Instrument. J. A. Lentz. 2,165,929; July 11.
Shaving device, Electric. L. V. Aronson. 2,166,035; July 11.
Shield, Dress. L. Eisenberg. 2,165,359; July 11.
Shielding means for rear view mirrors. J. Vlasak. 2,165,771; July 11.
Shielding structure against insects. D. M. Muirhead. 2,165,500; July 11.
Shifting device for automobiles. C. A. Dreisbach. 2,165,461; July 11.
Shock absorbing device. G. J. Kessenich. 2,165,273–4; July 11.
Shock absorbing mechanism. W. A. Heltner. 2,165,375; July 11.
Shock absorbing mechanism. G. A. Johnson and E. H. Lehman. 2,165,383; July 11.
Shoe insole. E. I. La Chapelle. 2,165,494; July 11.
Shoe sole and heel construction. A. Vigorith, E. J. Story, and J. M. Delaney. 2,165,427; July 11.
Shoe structure, Stitch-down. I. Hoffenberg. 2,165,927; July 11.
Shoe vamp filler. C. A. Volz. 2,165,877; July 11.
Short waves, Modulating ultra. E. Gerhard. 2,165,847; July 11.
Shorts and sanitary belt, Combination. H. Marcus. 2,165,561; July 11.
Shovel. W. F. McLindon. 2,166,013; July 11.
Shutter and pretimer, Photographic. J. Mihalyi. 2,165,401; July 11.
Shutter, Photographic. F. A. Pirwitz. 2,165,574; July 11.
Sight mount for firearms, Adjustable. F. F. Burton. 2,165,785; July 11.
Sign: *See*—
Advertising and warning sign. Illuminated sign.
Sign for vehicles, Advertising. A. P. Fritsch. 2,166,048; July 11.
Sign. J. B. Hood. 2,165,704; July 11.
Sign. J. Trojan. 2,165,910; July 11.
Signs, Apparatus for projecting aerial. G. C. Edwards. 2,165,246; July 11.
Signboard with removable letters. L. Bertoye. 2,166,036; July 11.
Signal device. R. J. Ruths. 2,165,305; July 11.
Signal transmission system, Electric. J. Collard. 2,165,838; July 11.
Signals to and receiving signals from telephone circuits, Introducing. W. Howey. 2,165,856; July 11.
Signaling system, High frequency. E. C. Cork and J. L. Pawsey. 2,165,961; July 11.
Silk, Coloring acetate artificial. R. W. Hardacre, N. E. Holden, and C. Shaw. 2,165,257; July 11.
Skate. G. S. Chiles. 2,165,996; July 11.
Skis and the like, Foot attachment for. C. T. Hill. 2,165,547; July 11.
Socket member for a wireless cigar lighter. J. Sinko. 2,165,876; July 11.
Sorter. A. G. Rindfleisch. 2,165,415; July 11.
Sorting device. W. S. Bowser. 2,165,609; July 11.
Sorting machine. E. W. Gifford. 2,165,251; July 11.
Sound, Method of and apparatus for recording and reproducing. L. Dewan. 2,165,236; July 11.
Sound oscillations, Method and apparatus for the mechanical recording of. P. C. Ricchiardi. 2,166,079; July 11.
Spar chord. E. W. Dart. 2,165,458; July 11.
Spark ignition distributer for internal combustion engines. A. Massey-Allen. 2,165,196; July 11.
Speed transmission mechanism, Variable. R. C. Mealey. 2,165,934; July 11.
Speedometer, Illuminated. G. Moody. 2,165,498; July 11.
Spoon. J. E. Mayer. 2,165,642; July 11.
Spray iron. J. D. Foster. 2,165,541; July 11.
Spring: *See*—
Door spring.
Spring forming machine, Coil. R. C. Winders. 2,165,600; July 11.
Spring perch and brake bracket remover. S. Mandl. 2,165,285; July 11.
Spring suspension, Trailer towing. J. H. Booth. 2,165,608; July 11.
Springs, Making helical. H. S. Peyton. 2,165,411; July 11.
Sprinkler head. W. B. Griffith. 2,165,477; July 11.
Stand for stockings and the like, Display. E. J. Berger and H. W. Matthews. 2,165,915; July 11.
Stapling device. W. G. Pankonin. 2,165,572; July 11.
Starch-containing product and method, Water-resistant. H. E. Bode. 2,165,834; July 11.
Stationery, Manifolding continuous. M. S. Roosevelt and G. L. Bezold. 2,166,075; July 11.
Steel, Alloy. D. E. Krause and C. H. Lorig. 2,165,553; July 11.
Steel sheets, Method and apparatus for producing. G. E. Black. 2,165,917; July 11.
Stereoscope, Phorometric. E. Krimsky. 2,166,063; July 11.
Stereoscopic observation instrument, such as stereoscopic rangefinders. J. W. French. 2,166,046; July 11.
Sterilizer. A. O. Mickelsen. 2,165,497; July 11.
Still mechanism for motion picture projectors. H. C. Wellman. 2,165,431; July 11.
Stitching machine. E. J. Trepp. 2,166,028; July 11.
Stoker. V. F. Clark. 2,166,040; July 11.
Stoker. C. H. Snyder and A. W. Ferguson. 2,166,080; July 11.
Stoker, Domestic coal. P. Fricchione. 2,165,627; July 11.
Stone sawing machine. O. J. Brock. 2,165,335; July 11.
Stop motion. R. H. Lawson and W. L. Smith, Jr. 2,165,975; July 11.
Store equipment, Modern. M. Levine and M. Branfeld. 2,165,930; July 11.
Store front, Display. C. B. Reymers. 2,165,727; July 11.
Straw support for threshers. A. D. Edgington. 2,165,888; July 11.
Stretcher, Curtain. E. B. Gard. 2,165,629; July 11.
Stretcher, Wire. H. J. Campbell. 2,165,695; July 11.
Strip, Collar straightening. R. Tos. 2,165,990; July 11.
Structural unit and assembly, Angular. G. F. Kotrbaty. 2,166,098; July 11.
Substances from solutions, Extraction of. J. W. Allquist. 2,165,438; July 11.
Sucrose octanitrate, Melting, casting, and purifying. J. A. Wyler. 2,165,435; July 11.
Supercharger system for motor vehicles. F. R. Elliott. 2,165,360; July 11.
Support: *See*—
Ankle support. Invalid walking support.
Book support. Tire support.
Support for trailer vehicles. G. H. Connors. 2,165,538; July 11.
Supporting attachment for ironing boards, Clothes. A. F. Hipp. 2,165,548; July 11.

Surface. Wear-resistant. D. van der M. Haarhoff. 2,165,955; July 11.
Switch: *See*—
Rheostat switch.
Switch. B. Cooper. 2,165,227; July 11.
Switch. C. G. Kronmiller. 2,165,801; July 11.
Switch device, Magnetic. W. L. Smith. 2,165,514; July 11.
Switch for motor casing. H. W. Batcheller. 2,165,200; July 11.
Table: *See*—
Game table.
Tablet for typewriting machines. J. R. Morrison. 2,166,016; July 11.
Tabulating machine. A. W. Mills. 2,165,288; July 11.
Tabulating machine. E. R. Myers. 2,165,408; July 11.
Tabulator, Graph printing. F. Kölm. 2,165,278; July 11.
Tank truck valve. R. D. Marx. 2,165,640; July 11.
Tapping machine. J. H. Mansfield. 2,165,396; July 11.
Target apparatus. W. A. Tretsch. 2,165,591; July 11.
Tea bag, coffee bag, and the like and making the same. R. N. Doble. 2,165,840; July 11.
Tee off apron. H. T. Hallberg. 2,165,479; July 11.
Telegraph exchange system. W. B. Blanton and R. B. White. 2,165,780; July 11.
Telemetering system, Multiplex. E. I. Green and W. H. Tidd. 2,165,892; July 11.
Telephone system. C. L. Goodrum. 2,165,924; July 11.
Telephone system. H. Hovland. 2,165,855; July 11.
Telephone system. N. H. Saunders. 2,165,579; July 11.
Teletypewriter. C. J. Fitch and K. R. Schneider. 2,165,247; July 11.
Television apparatus. R. S. Holmes. 2,165,794; July 11.
Television transmitter. G. L. Beers. 2,165,778; July 11.
Temperature compensating means for a measuring instrument. W. G. Boettinger. 2,165,744; July 11.
Temperature regulator. J. E. Dube. 2,165,355; July 11.
Template. R. C. Grace. 2,165,369; July 11.
Tent, Treatment. G. H. Budd. 2,165,449; July 11.
Terminal for electrical conductors. J. M. White. 2,165,323; July 11.
Test drill. F. C. Sturges. 2,165,685; July 11.
Testing instrument for vehicles. W. Höhndorf. 2,165,894; July 11.
Textile and similar materials, Cleaning. J. W. Chamberlin and R. E. Bassett, Jr. 2,165,884; July 11.
Thread and making same, Rubber. K. R. Shaw. 2,165,986; July 11.
Thread cleaner. W. T. Munson. 2,165,405; July 11.
Thread store device. E. B. Helm. 2,165,259; July 11.
Tie support. A. J. Winter. 2,165,913; July 11.
Timber cutter. C. Wolf. 2,165,524; July 11.
Timing device, Variable. C. H. Bissell. 2,165,444; July 11.
Tire chain. E. A. Stuller. 2,165,768; July 11.
Tire chain, Traction. E. E. Lloyd. 2,165,865; July 11.
Tobacco stemming. W. B. Bronander. 2,165,217; July 11.
Toggle clamp. W. C. Weston. 2,165,322; July 11.
Tool: *See*—
Finishing and severing tool.
Roll handling tool.
Wire wrapping tool.
Tool. H. L. Brenner. 2,166,089; July 11.
Tool and holder, Cutting. H. A. Ortegren. 2,165,571; July 11.
Tooth cleaning element. C. H. Seifert. 2,165,420; July 11.
Tooth structures, Making shell-like porcelain. R. W. Erdle. 2,165,466; July 11.
Toothed elements, Apparatus for lapping. H. L. Barter. 2,165,329; July 11.
Top cementing plug. N. W. Wickersham. 2,165,433; July 11.
Torque balancer, Dynamic. R. Chilton. 2,154,463; July 11.
Toy. G. Batkin. 2,165,914; July 11.
Toy. F. Bischof. 2,165,833; July 11.
Toy airplane. J. L. Hunt. 2,166,068; July 11.
Toy drums, Making. R. H. Hiers. 2,165,379; July 11.
Traffic controlling system for railroads. A. R. Whitehorn. 2,166,083; July 11.
Train line connector. A. J. Bazeley. 2,165,330; July 11.
Transfer mechanism. F. A. Hosack. 2,166,067; July 11.
Transformer for making electrical measurements. C. F. Mitchell. 2,165,290; July 11.
Transmission gearing and brake. W. T. Young and T. L. Fawick. 2,165,993; July 11.
Treadle controlled system. B. Cooper. 2,166,090; July 11.
Trimming machine. J. S. Kamborian. 2,165,384; July 11.
Trimming mechanism. G. Stevenson. 2,165,313; July 11.
Tripod leg, Telescoping. F. Tuttle and J. S. Beggs. 2,165,426; July 11.
Trouble and trunk light. J. Koch, Jr. 2,166,062; July 11.
Trough, Poultry. D. H. Hill. 2,165,968; July 11.
Trouser fly construction. D. W. Galloway. 2,166,092; July 11.
Truck. P. Carlson. 2,165,452; July 11.
Truck body, Delivery. E. R. Pritchard. 2,165,980; July 11.
Truck, Hand. T. W. Yeats. 2,165,603; July 11.
Tube: *See*—
Reinforced metal tube.
Tube and pusher, Feed. C. F. Whitman. 2,165,912; July 11.
Tuning indicator and scale. N. M. Rust and N. Levin. 2,165,816; July 11.
Tuning system and apparatus, Automatic. A. A. Collins. 2,165,226; July 11.
Turbine for low temperature gas separation. G. Zerkowitz. 2,165,994; July 11.
Turbosupercharger. K. A. Browne. 2,165,448; July 11.
Turnbuckle. J. H. Gross. 2,165,478; July 11.
Tweezers. W. L. Heilig. 2,165,374; July 11.
Type. F. J. Weber. 2,165,429; July 11.
Typewriter, Power-operated. C. Chisholm. 2,165,223; July 11.
Typewriting machine. C. Chisholm. 2,165,224–5; July 11.
Typewriting machine. J. L. Petz. 2,165,301; July 11.
Umbrella, Folding. H. Haupt. 2,165,967; July 11.
Unloader for compressors. W. H. Noble. 2,165,938; July 11.
Vacuum cleaner. F. Riebel, Jr., and D. M. Dow. 2,165,678; July 11.
Vacuum cleaner. F. Riebel, Jr. 2,165,677; July 11.
Vacuum distillation. K. C. D. Hickman. 2,165,378; July 11.
Valve: *See*—
Pop valve.
Poppet valve.
Pressure actuated valve.
Tank truck valve.
Valve. R. D. Marx. 2,165,639; July 11.
Valve. J. G. Parsons. 2,165,649; July 11.
Valve. J. M. Sauls. 2,165,874; July 11.
Valve bodies, Producing integral wrought metal. E. S. Cornell, Jr. 2,165,228; July 11.
Valve for internal combustion engines. G. W. Douglas and J. J. Dewey. 2,165,238; July 11.
Valve seat. C. L. Stancliff. 2,165,311; July 11.
Vanity case. F. M. Williamson. 2,165,598; July 11.
Vapor condenser. W. T. Chesk. 2,165,746; July 11.
Vehicle: *See*—
Dumping vehicle.
Motor vehicle.
Vehicle body. E. J. W. Ragsdale. 2,165,576; July 11.
Vehicle body construction. D. W. Perkins. 2,165,939; July 11.
Vehicle brake. E. Engel. 2,165,358; July 11.
Vehicle control mechanism. S. Vorech. 2,166,029; July 11.
Vehicle-leveling, turn-banking, and shock-absorbing mechanism for motor vehicles, Combined. F. D. Paes, L. D. Salazar de Eca, and E. P. C. Pires. 2,165,617; July 11.
Vehicle seat. F. M. Shanahan. 2,165,306; July 11.
Vehicles or the like, Controlling the operation of motor. A. and J. Weiss. 2,165,320; July 11.
Vent tube for fuel tanks. G. W. Emmert. 2,165,357; July 11.
Ventilating system. J. M. VerMeulen and G. Bucher. 2,165,593; July 11.
Ventilation system and apparatus, Vehicle body. W. Lintern. 2,165,559; July 11.
Ventilator means, Adjustable and controllable. H. V. Derveaux. 2,165,351; July 11.
Vise for cutting devices, Workpiece. H. D. Cook and F. M. Scharff. 2,165,614; July 11.
Wall construction, Building. J. Brogden. 2,165,336; July 11.
Water closet. S. Duner. 2,165,243; July 11.
Watercraft. J. E. Canton. 2,165,745; July 11.
Well logging, Electrical transient. L. W. Blau and L. Statham. 2,165,213; July 11.
Wells, Drilling. W. V. Vietti and A. D. Garrison. 2,165,823–4; July 11.
Wheel: *See*—
Miniature airplane wheel.
Safety wheel.
Wheel, Forming a vehicle. F. H. Le Jeune. 2,165,863; July 11.
Wheel or wheel section and the product thereof, Making a butting. E. W. Hall. 2,165,752; July 11.
Wheels used for gearing, Apparatus for dressing the grinding. M. G. E. Philippe. 2,166,020; July 11.
Window construction. G. Schuler. 2,165,943; July 11.
Wing arrangement, Aircraft. P. E. Hovgard. 2,165,482; July 11.
Wiper for vanity case mirrors. F. M. Williamson. 2,165,599; July 11.
Wire cutting machine. J. G. Baumgartner. 2,166,087; July 11.
Wire or the like, Resistance. C. A. H. Jahn. 2,166,055; July 11.
Wire tightening and twisting machine. H. W. Cox. 2,165,455–6; July 11.
Wire wrapping tool. I. G. Carter. 2,165,883; July 11.
Worm element, Adjustable. H. Pelphrey. 2,165,761; July 11.
Wringer, Mop. H. J. Lau. 2,165,862; July 11.
Yarn treating processes and compositions therefor. J. B. Dickey and J. B. Normington. 2,165,352–3; July 11.

CLASSIFICATION OF PATENTS

ISSUED JULY 11, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

1— 29: Re.21,141
32: 2,165,919
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224: 2,166,012
234: 2,166,068
2,166,092
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4— 79: 2,165,243
5— 91: 2,165,385
8— 50: 2,165,257
109: 2,165,270
159: 2,165,884
9— 6: 2,165,545
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12— 4: 2,165,361
14: 2,165,262
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15— 6: 2,165,678
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28: 2,165,643
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119: 2,165,319
122: 2,165,420
124: 2,165,508
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22— 57.3: 2,166,006
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25— 28: 2,166,057
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4: 2,165,772
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44— 8: 2,165,261
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56— 25: 2,165,551
2,165,851
27: 2,165,859
226: 2,165,381
2,165,382
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62— 1: 2,165,569
3: 2,165,741
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17: Re.21,147
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502: 2,165,414
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75— 10: 2,165,742
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7: 2,165,334
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31.1: 2,165,266
42: 2,166,056
82— 4: 2,165,646
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2,165,946
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49: 2,166,052
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2,165,586
9: 2,165,324
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86: 2,165,512
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193: Re.21,144
101— 32: 2,165,286
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247: 2,165,535
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426: 2,165,499
102— 12: 2,165,263
103— 26: 2,165,585
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105— 49: 2,165,691
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113— 99: 2,165,322
114— 43: 2,165,633
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124.1: 2,165,416
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235: 2,165,207
302: 2,165,208
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123— 56: 2,165,222
90: 2,165,238
2,165,239
119: 2,165,360
139: 2,165,696
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188: 2,165,311
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125— 11: 2,166,020
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307: 2,165,811
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2,166,082
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137— 21: 2,165,640
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138— 74: 2,165,294
139— 42: 2,165,890
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21.1: 2,165,441
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243: 2,165,768
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67: 2,165,411
154— 2: 2,165,506
2,165,818
2,166,038
30: 2,165,728
54.5: 2,165,317
155— 22: 2,165,700
30: 2,165,529
53: 2,165,306
156— 17: 2,165,292
2,165,492
2,165,669
158— 91: 2,165,279
2,166,065
92: 2,165,212
161— 26: 2,165,401
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29: 2,165,394
51: 2,165,614
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112: 2,165,249
2,165,388
115: 2,165,302
166— 1: 2,165,433
12: 2,165,687
167— 14: 2,165,206
28: 2,165,486
63: 2,165,857
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78: 2,165,370
2,165,371
2,165,837
169— 39: 2,165,477
171— 34: 2,165,290
2,166,003
97: 2,165,886
2,166,058
119: 2,165,976
228: 2,165,309

172— 36: 2,165,858
126: 2,165,582
2,165,719
152: 2,165,521
179: 2,165,491
2,165,694
239: 2,165,809
173— 269: 2,165,323
334: 2,165,952
339: 2,165,876
174— 130: 2,165,737
195: 2,165,773
175— 30: 2,165,964
182: 2,165,213
224: Re.21,148
320: 2,166,090
340: 2,165,798
369: 2,165,203
176— 32: 2,165,987
119: 2,165,697
122: Re.21,150
2,165,805
125: 2,165,709
132: 2,165,310
177— 311: 2,165,343
351: 2,165,892
384: 2,165,749
178— 2: 2,165,780
5: 2,165,307
5.8: 2,165,794
2,165,856
7.2: 2,165,778
7.7: 2,165,770
23: 2,165,247
2,165,971
44: 2,165,575
2,165,838
2,165,961
79: 2,165,237
179— 2: 2,165,693
6: 2,165,546
7.1: 2,165,924
27: 2,165,579
2,165,855
81: 2,165,781
90: 2,165,766
100.3: 2,165,236
2,165,777
2,165,787
107: 2,165,710
171: 2,165,229
2,165,769
2,165,836
2,165,844
2,165,847
180— 1: 2,165,461
22: 2,165,723
2,166,099
54: 2,165,452
2,165,795
90: 2,165,660
184— 6: 2,165,909
55: 2,165,634
187— 1: 2,165,542
188— 3: 2,165,320
78: 2,165,760
81: 2,165,756
96: 2,165,501
106: 2,165,358
152: 2,165,564
210: 2,165,864

188— 264: 2,165,978
189— 34: 2,165,336
2,166,095
2,166,096
2,166,097
2,166,098
37: 2,165,458
191— 13: 2,165,743
192— 3: 2,165,817
4: 2,165,993
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24: 2,166,004
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68: 2,165,670
142: 2,165,226
148: 2,165,288
194— 93: 2,165,590
97: 2,165,471
195— 44: 2,166,047
196— 9: 2,165,804
10: 2,165,372
2,165,373
2,165,526
2,165,631
13: 2,165,638
2,166,005
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32: 2,165,732
53: 2,165,940
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110: 2,165,725
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197— 18: 2,165,224
84: 2,165,223
97: 2,165,225
153: 2,165,301
198— 7: 2,165,205
64: 2,166,040
189: 2,165,283
2,165,395
2,165,422
2,165,434
203: 2,165,759
213: 2,165,627
220: 2,165,583
199— 62: 2,165,347
200— 28: 2,165,196
27: 2,165,444
86: 2,165,227
87: 2,165,801
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106: 2,165,893
107: 2,165,511
111: 2,165,887
112: 2,165,555
117: 2,165,636
131: 2,166,033
155: 2,165,200
166: 2,165,481
201— 53: 2,165,199
76: 2,165,316
2,165,738
2,166,055
202— 52: 2,165,378
204— 5: 2,165,326
19: 2,165,284
31: 2,165,820
206— 56: 2,165,632
80: 2,165,539

207— 2: 2,165,711
209— 110: 2,165,251
2,165,415
166: 2,165,268
2,166,093
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210— 49: 2,165,703
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120: 2,165,931
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211— 1.6: 2,165,727
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36: Re.21,143
213— 44: 2,165,375
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220— 22: 2,166,018
48: 2,165,715
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221— 32: 2,165,860
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225— 3: 2,165,605
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61.8: 2,165,220
2,165,230
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2,165,298
61.10: 2,165,925
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98: 2,165,527
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236— 1: 2,165,488
14: 2,166,077

236— 34: 2,165,355
44: 2,165,829
2,165,830
237— 12.3: 2,165,269
2,165,559
240— 1.2: 2,165,211
8.18: 2,165,562
2,166,062
8.4: 2,165,899
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59: 2,165,531
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242— 53: 2,165,259
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102: 2,165,465
132: 2,165,459
134: 2,165,198
138: 2,165,273
2,165,274
150: 2,165,954
246— 3: 2,166,083
248— 5: 2,165,297
7: 2,165,750
140: 2,165,567
191: 2,165,426
203: 2,165,689
250— 1: 2,165,214
2,165,690
2: 2,165,800
11: 2,165,256
16: 2,165,467
2,165,637
17: 2,165,848
20: 2,165,252
2,165,304
2,165,483
2,165,502
2,165,596
2,165,799
25: 2,165,726
27: 2,165,308
2,165,714
2,165,764
2,165,911
27.5: 2,165,832
2,165,981
33: 2,165,958
2,166,100
36: 2,165,468
2,165,509
2,165,517
2,165,815
141: 2,165,779
150: 2,165,806
157: 2,165,803
251— 125: 2,165,874
252— 6: 2,166,074
8: 2,165,532
254— 86: 2,165,538
93: 2,165,367
132: 2,166,015
133: 2,165,366

254— 166: 2,165,895
167: 2,165,984
255— 1: 2,165,410
2,165,685
2,165,823
2,165,824
20: 2,165,666
51: 2,165,853
2,165,904
71: 2,165,584
257— 25: 2,165,746
137: 2,165,615
201: 2,166,027
259— 109: 2,165,566
145: 2,165,679
260— 36: 2,165,525
51: 2,165,380
78: 2,165,253
130: 2,165,493
210: 2,165,902
225: 2,165,293
230: 2,165,850
235: 2,165,435
240: 2,165,219
2,165,337
277: 2,165,618
289: 2,165,218
2,165,692
310: 2,165,445
313: 2,166,073
397: 2,165,655
398: 2,165,530
429: 2,166,076
433: 2,165,533
499: 2,165,450
541: 2,165,438
553: 2,165,484
576: 2,165,747
583: 2,165,515
612: 2,165,813
615: 2,165,962
623: 2,165,956
633: 2,165,782
735: 2,165,951
744: 2,165,589
772: 2,165,682
800: 2,165,623
2,165,960
261— 66: 2,165,447
93: 2,165,889
94: 2,165,489
122: 2,166,017
262— 28: 2,165,404
2,165,675
263— 30: 2,165,242
53: 2,165,735
264— 1: 2,165,894
265— 36: 2,165,275
267— 11: 2,165,332
21: 2,165,608
63: 2,165,702
270— 66: 2,165,786
271— 3: 2,165,418
14: 2,165,676
22: 2,165,232
272— 13: 2,165,736
36: 2,165,698
273— 11: 2,165,875
33: 2,165,479
73: 2,165,701

273— 75: 2,166,044
2,166,045
96: 2,165,914
102.1: 2,165,591
123: 2,165,907
135: 2,165,891
274— 11: 2,166,079
280— 6: 2,165,617
11.11: 2,165,996
11.35: 2,165,547
124: Re.21,142
179: 2,165,603
6: 2,166,019
282— 12: 2,166,075
22: 2,166,016
283— 1: 2,165,250
49: 2,165,612
284— 18: 2,165,639
285— 3: 2,165,626
24: 2,165,330
56: 2,165,621
2,165,622
90: 2,165,926
115: 2,166,078
194: 2,165,920
286— 20: 2,155,845
287—52.02: 2,165,460
60: 2,165,478
288— 27: 2,165,296
290— 2: 2,165,982
4: 2,165,983
30: 2,165,969
292— 84: 2,165,659
172: 2,165,577
348: 2,165,534
293— 54: 2,165,648
294— 27: 2,165,264
33: 2,165,417
49: 2,166,013
67: 2,165,921
78: 2,165,413
87: 2,165,789
296— 28: 2,165,980
44: 2,165,390
2,165,594
298— 35: 2,165,507
299— 63: 2,165,783
84: 2,165,868
87: 2,165,321
302— 14: 2,165,349
2,165,397
303— 6: 2,166,000
2,166,001
15: 2,165,999
19: 2,166,007
26: 2,165,989
66: 2,165,988
304— 40: 2,165,221
306— 21: 2,166,024
41: 2,165,683
308— 19: Re.21,145
26: 2,165,792
36.1: 2,165,916
41: 2,165,645
309— 16: 2,165,619
312— 8: 2,165,713
86: 2,165,998
103: 2,165,609
112: 2,166,043
104.1: 2,165,930
146: 2,165,822

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

Re.21,144: 99— 193
2,165,209: 30— 92
2,165,243: 4— 79
2,165,244: 45— 6
2,165,262: 12— 14
2,165,275: 265— 36
2,165,277: 65— 58
2,165,296: 288— 27
2,165,298: 235— 61.9
2,165,312: 112— 123
2,165,344: 106— 24

2,165,346: 95— 39
2,165,368: 148— 12
2,165,383: 213— 48
2,165,391: 30— 31
2,165,420: 15— 122
2,165,437: 94— 24
2,165,447: 261— 66
2,165,450: 260— 499
2,165,472: 29— 153
2,165,486: 167— 28

2,165,493: 260— 130
2,165,510: 234— 5.5
2,165,518: 62— 4
2,165,519: 62— 8
2,165,520: 66— 183
2,165,536: 152— 9
2,165,589: 260— 744
2,165,617: 280— 6
2,165,623: 260— 800
2,165,634: 184— 55

2,165,649: 137— 152
2,165,656: 85— 9
2,165,662: 105— 81
2,165,678: 15— 6
2,165,682: 260— 772
2,165,691: 105— 49
2,165,707: 84— 1.21
2,165,708: 43— 31
2,165,711: 207— 2
2,165,736: 272— 13

2,165,741: 62— 3
2,165,773: 174— 195
2,165,776: 33— 130
2,165,806: 250— 150
2,165,807: 196— 18
2,165,835: 240— 152
2,165,896: 70— 149
2,165,907: 273— 123
2,165,913: 24— 49
2,165,951: 260— 735

2,165,960: 260— 800
2,165,963: 103— 138
2,165,967: 135— 26
2,165,995: 137— 69
2,166,021: 131— 237
2,166,027: 257— 201
2,166,039: 75— 146
2,166,059: 70— 339
2,166,067: 235— 60
2,166,090: 175— 320

U. S. GOVERNMENT PRINTING OFFICE: 1939

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Akshun Company. (See Schwebel, Benjamin.)
Allegheny Ludlum Steel Corporation, Pittsburgh, Pa. Tool steels. Serial Nos. 419,541–3; July 18. Class 14.
Allen, S. L., & Co., Inc., Philadelphia, Pa. Skis. Serial No. 420,158; July 18. Class 22.
Allied Printing Trades Association, Indianapolis, Ind. Matter produced by printing, lithographing and/or similar and/or substitute process. Serial No. 414,090; July 18. Class 38.
Allied Printing Trades Association, Indianapolis, Ind. Autograph paper, bill heads, blank books, etc. Serial No. 416,938; July 18. Class 37.
American Car and Foundry Company, New York, N. Y. Railway cars, car wheels, boats, etc. Serial No. 414,649; July 18. Class 19.
Andersen-Smith Milling Co., San Francisco, Calif. Dog ration. Serial No. 419,569; July 18. Class 46.
Arden, Elizabeth, Inc., New York, N. Y. Toilet cream or jelly. Serial No. 418,472; July 18. Class 6.
Arnold, Schwinn & Co., Chicago, Ill. Bicycles. Serial No. 416,675; July 18. Class 19.
Basser, William, Textile Corp., New York, N. Y. Textile fabrics. Serial No. 418,558; July 18. Class 42.
Baymax Syndicate, Buffalo, N. Y. Medicated confections. Serial No. 420,083; July 18. Class 6.
Beacon Manufacturing Company, Swannanoa, N. C. Blankets. Serial Nos. 419,838–9; July 18. Class 42.
Beck, Dave, Inc., New York, N. Y. Men's furnishings. Serial No. 418,803; July 18. Class 39.
Belding Heminway Company, New York, N. Y. Underwear. Serial No. 419,470; July 18. Class 39.
Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Air compressors and parts thereof. Serial No. 411,366; July 18. Class 23.
Bethlehem Steel Company, Bethlehem, Pa. Sucker rods, sucker rod couplings, and internal thread protectors for sucker rods and sucker rod couplings. Serial No. 418,805; July 18. Class 23.
Biltmore Paper Co., Inc., New York, N. Y. Liquid floor wax. Serial No. 419,139; July 18. Class 16.
Birkenstock Gesellschaft mit beschränkter Haftung, Friedberg, Germany. Arch-supports and orthopaedic insoles. Serial No. 405,982; July 18. Class 44.
Blackhawk Mfg. Co., West Allis, Wis. Wrenches and twisting tool sets. Serial No. 413,853; July 18. Class 23.
Blonder, H., Co., The, Cleveland, Ohio. Wall paper. Serial No. 418,511; July 18. Class 37.
Brouillet, Eleanor, Gardner, Mass. Ointment. Serial No. 419,103; July 18. Class 6.
Brown, M. Stanley, New York, N. Y. Textile fabrics. Serial No. 419,791; July 18. Class 42.
Brunswick-Balke-Collender Company, The, Chicago, Ill. Base coat for bowling alley beds. Serial No. 416,981; July 18. Class 16.
Bryant Electric Company, The, Bridgeport, Conn. Tumblers, soap dishes, etc. Serial No. 410,620; July 18. Class 2.
Caldwell Products, Inc., Mount Vernon, N. Y. Mouth props. Serial No. 419,645; July 18. Class 44.
California Foods, Inc., Montebello, Calif. Canned fruits, vegetables, diced melon cubes, etc. Serial No. 418,329; July 18. Class 46.
California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Parasiticides. Serial No. 417,257; July 18. Class 6.
Callaway Mills, La Grange, Ga. Cotton piece goods. Serial No. 417,116; July 18. Class 42.
Carbide and Carbon Chemicals Corporation, New York, N. Y. Plasticizers. Serial No. 410,974; July 18. Class 6.
Christina, Vincent, Inc., New York, N. Y. Preparation used in the treatment of syphilis. Serial No. 419,498; July 18. Class 6.
Cohen, Arthur M., New York, N. Y. Jewelry. Serial No. 419,253; July 18. Class 28.
Cohen, Goldman & Co., Inc., New York, N. Y. Outer garments. Serial No. 419,144; July 18. Class 39.
Collins, Tom, Jr., Company. (See Grandpa Brands Company.)
Colonial Coverlet Company, Inc., Chattanooga, Tenn. Bedspreads. Serial No. 413,818; July 18. Class 42.
Commercial Molasses Corporation, New York, N. Y. Molasses. Serial No. 412,440; July 18. Class 46.
Connor, W. B., Engineering Corp., New York, N. Y. Odor adsorbers and parts thereof. Serial No. 417,251; July 18. Class 34.
Coopers, Incorporated, Kenosha, Wis. Men's hose. Serial No. 410,454; July 18. Class 39.
Crosse, Margaret, Los Angeles, Calif. Substance for detoxicating, spreading, and rendering adhesive insecticides and fungicides used in agriculture. Serial No. 418,704; July 18. Class 6.
Crystal, David, Inc., New York, N. Y. Textile fabrics. Serial No. 419,796; July 18. Class 42.
D. M. C. Corporation, The, New York, N. Y. Cotton threads and yarns. Serial No. 419,611; July 18. Class 43.
Daneman, Alfred S., doing business as Planefilm Division, Dayton, Ohio. Tough flexible film formed of plastic cellulosic material for aircraft or the like. Serial No. 417,266; July 18. Class 50.
Droll, J. W., Company, Chicago, Ill. Thread. Serial No. 419,418; July 18. Class 43.
Du Pont de Nemours, E. I., and Company, Wilmington, Del. Plastics, cellulose film, clays, etc. Serial No. 419,715; July 18. Class 1.
Eaton, O. O., Watsonville, Calif. Fresh vegetables. Serial No. 419,419; July 18. Class 46.
Edgol Company. (See Nichols, Francis R.)
Electric Auto-Lite Company, The, Toledo, Ohio. Electric ignition cable. Serial No. 416,724; July 18. Class 21.
Empire Vitamin Corporation, Syracuse, N. Y. Medicinal vitamin preparation. Serial No. 409,568; July 18. Class 6.
Endo Products, Inc., New York, N. Y. Preparation used to supply vitamin C through injections. Serial No. 419,145; July 18. Class 6.
Engelman, Helen, Edinburg, Tex. Beverages and citrus juices and extracts used for and in the making of the same. Serial No. 416,287; July 18. Class 45.
Engles, Alma K., Batesville, Ark. Preparation for removing dandruff. Serial No. 410,593; July 18. Class 6.
Esterbrook Steel Pen Manufacturing Company, The, Camden, N. J. Fountain pens and parts thereof. Serial No. 419,999; July 18. Class 37.
Fashion Hosiery Stores, Inc., Pittsburgh, Pa. Ladies' hosiery. Serial No. 407,669; July 18. Class 39.
Fillmore Citrus Association, Fillmore, Calif. Fresh citrus fruit. Serial No. 418,922; July 18. Class 46.
Fold-A-Way Products. (See Pente, Meta.)
French, Thomas, & Sons, Ltd., New York, N. Y. Ladder webbing. Serial No. 411,773; July 18. Class 40.
Gafford Pharmacal Co., The, Cleveland, Ohio. Nose drops. Serial No. 419,062; July 18. Class 6.
Garfinkel & Ritter, New York, N. Y. Women's lingerie. Serial No. 417,213; July 18. Class 39.
General Baking Company, New York, N. Y. Bread. Serial No. 418,573; July 18. Class 46.
Gillette Safety Razor Company, Boston, Mass. Razors and hair removing devices. Serial No. 416,765; July 18. Class 23.
Goldberg, Samuel, New York, N. Y. Suits, topcoats, and overcoats. Serial No. 419,719; July 18. Class 39.
Good Health Beverage Co., Pittsfield, Mass. Soda water. Serial No. 417,539; July 18. Class 45.
Goodyear Tire & Rubber Company, Inc., The, Akron, Ohio. Covers for automobile seats and seat backs. Serial No. 419,479; July 18. Class 19.
Grandpa Brands Company, doing business as Tom Collins Jr. Company and A. J. Lehman Company, Cincinnati, Ohio. Beverages, and for the concentrates thereof, and the flavoring extracts used in making the same. Serial No. 419,912; July 18. Class 45.
Grand Rapids Varnish Corporation, Grand Rapids, Mich. General industrial finishes. Serial No. 416,556; July 18. Class 16.
Green, Sally, St. Louis, Mo. Women's shirts. Serial No. 418,831; July 18. Class 39.
Greiner, C. A., New Orleans, La. Canned fish and shellfish. Serial No. 418,974; July 18. Class 46.
Gypsum Insulation & Manufacturing Company, Los Angeles, Calif. Insulating plaster materials. Serial No. 413,043; July 18. Class 12.
Hanan & Son, Inc., New York, N. Y. Shoes. Serial No. 419,480; July 18. Class 39.
Handler, Edward J., doing business as Edward Handler & Son, Newark, N. J. Flasks for making dental castings. Serial No. 420,280; July 18. Class 44.
Harmol Manufacturing Co. (See Jacobson, Harry.)
Harvey, Walter G., doing business as Harvey Dental Specialty Co., Los Angeles, Calif. Sterilizing solution. Serial No. 419,422; July 18. Class 6.
Hawley & Hoops, New York, N. Y. Candy. Serial No. 418,199; July 18. Class 46.
Hercules Powder Company, Wilmington, Del. Synthetic textile finishing agent. Serial No. 414,404; July 18. Class 6.
Hercules Powder Company, Wilmington, Del. Combination blasting cap and explosives cartridge. Serial No. 419,117; July 18. Class 9.
Hilbert, Charles D., Cincinnati, Ohio. Blank record sheets for radio programs. Serial No. 418,243; July 18. Class 37.
Hilco Products. (See Hill, Howard L.)

Hill, Howard L., doing business as Hilco Products, New York, N. Y. Wall soap dishes, wall tumbler holders, tub soap dish holders, etc. Serial No. 419,379; July 18. Class 13.
Independent Cordage Company, Inc., New York, N. Y. Binder twine, cord, rope. Serial No. 419,614; July 18. Class 7.
Ingraham, E., Company, The, Bristol, Conn. Watches, watch-movements, and clocks. Serial No. 419,762; July 18. Class 27.
International Affiliated Corporation, New York, N. Y. Antispasmodic uterine tonic. Serial No. 419,866; July 18. Class 6.
International Business Machines Corporation, Endicott, N. Y. Statistical machines, card controlled accounting and tabulating machines, etc. Serial No. 404,442; July 18. Class 26.
International Typographical Union, Indianapolis, Ind. Almanacs, annual publications, calendars, etc. Serial No. 414,113; July 18. Class 38.
International Typographical Union, Indianapolis, Ind. Autograph paper, bill heads, blank books, etc. Serial No. 416,956; July 18. Class 37.
Iroquois Beverage Corporation, Buffalo, N. Y. Ale, porter, and half and half. Serial No. 411,168; July 18. Class 48.
Jacobson, Harry, doing business as Harmol Manufacturing Co., New York, N. Y. Sports trunks, athletic shirts, and athletic warm-up jackets. Serial No. 418,444; July 18. Class 39.
KEF Products. (See Vella, Ruby S.)
Kelly, Geo. J., Inc., Lynn, Mass. Shoe polishes, creams, dressings, etc. Serial No. 419,193; July 18. Class 4.
Knickerbocker Textile Corp., New York, N. Y. Piece goods. Serial No. 419,671; July 18. Class 42.
Knox Company, The, Miami Beach, Fla. Mouth prophylaxis. Serial No. 419,920; July 18. Class 6.
Knox Company, The, Miami Beach, Fla. Dentifrice. Serial No. 419,921; July 18. Class 6.
Koenig, Harry D., New York, N. Y. Face powder, lipstick, face rouge, etc. Serial No. 419,078; July 18. Class 6.
Kolene Corporation. (See Webster-Walsh Company.)
Kresge, Sebastian S., doing business as Kresge Department Store, Newark, Newark, N. J. Ceramic cooking and table ware. Serial No. 419,025; July 18. Class 30.
La Crosse Rubber Mills Co., La Crosse, Wis. Shoes, overshoes, and boots. Serial No. 419,079; July 18. Class 39.
Lafayette Pharmacal Inc., Lafayette, Ind. Medicament. Serial No. 419,522; July 18. Class 6.
Lehman, A. J., Company. (See Grandpa Brands Company.)
Levy, Albert, Amsterdam, Netherlands. Wearing apparel. Serial No. 412,609; July 18. Class 39.
Life Lax Co. (See Stabinski, Edmund J.)
Lindsay, Henry, Limited, Bradford, England. Bolts and hook adapters for bolts. Serial No. 415,904; July 18. Class 13.
Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Fabrics. Serial No. 420,063; July 18. Class 42.
Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Fabrics. Serial No. 420,065; July 18. Class 42.
Macaloon, Frank G., doing business as New Chemical Products Co., Washington, D. C. Insecticide. Serial No. 417,970; July 18. Class 6.
Markovits, Emanuel M., doing business as Saccharinefabriek "Hollandia", Rotterdam, Netherlands. Saccharin and saccharates, medicated and flavored troches, etc. Serial No. 419,727; July 18. Class 6.
Marshall Field & Company, Chicago, Ill. Rugs. Serial No. 419,754; July 18. Class 42.
McClelland Barclay Art Products Inc., New York, N. Y. Cigarette snubber. Serial No. 413,270; July 18. Class 8.
McLaren, M. W., Salinas, Calif. Fresh vegetables. Serial No. 412,452; July 18. Class 46.
Meehanite Metal Corporation, Chattanooga, Tenn. Gray-iron castings. Serial No. 418,351; July 18. Class 14.
Meehanite Metal Corporation, Chattanooga, Tenn. Forgings and castings. Serial No. 418,352–3; July 18. Class 14.
Mendelson, E. S., & Co. Inc., New York, N. Y. Fabrics. Serial No. 420,068; July 18. Class 42.
Merz & Co., Chemical Works, Inc., Newark and East Orange, N. J. Medical, surgical and dental appliances. Serial No. 418,255; July 18. Class 44.
Michaels, Stern & Co. Inc., Rochester, N. Y. Suits and topcoats. Serial No. 419,673; July 18. Class 39.
Michaels, Stern & Co. Inc., Rochester, N. Y. Overcoats. Serial No. 419,674; July 18. Class 39.
Miller Chemical & Fertilizer Corp., Baltimore, Md. Sulphur, blue dust, spraying dusts, etc. Serial No. 418,784; July 18. Class 6.
Millfold Paper Products Inc., New York, N. Y. Paper napkins. Serial No. 419,927; July 18. Class 37.
Miner's, Inc., New York, N. Y. Lipsticks. Serial No. 418,724; July 18. Class 6.
Muriel Silk Undergarment Co. Inc., New York, N. Y. Silk underwear and slips. Serial No. 418,204; July 18. Class 39.
Myers, Ralph E., doing business as Ralph E. Myers Co., Salinas, Tex. Fresh vegetables. Serial No. 419,592; July 18. Class 46.
Naamlooze Vennootschappij voor Wasverwerking, Amersfoort, Netherlands. Fly-catchers and fly-ribbons. Serial No. 419,816; July 18. Class 50.
Nathanson, Alexander, Springfield, Mass. Nurses' uniforms. Serial No. 419,731; July 18. Class 39.
National Electric Coil Company, Columbus, Ohio. Electric coils. Serial No. 406,097; July 18. Class 21.
National Fabrics Corporation, New York, N. Y. Textile fabrics. Serial No. 419,557; July 18. Class 42.
National Silk Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. Serial No. 418,526; July 18. Class 39.
National Travelers Aid Association, New York, N. Y. Magazines. Serial No. 419,432; July 18. Class 38.
Navy, Inc., Norfolk, Va. Periodical. Serial No. 419,343; July 18. Class 38.
Netzky, William, doing business as Susquehanna Waist Company, Philadelphia, Pa. Ladies' sportswear outer garments. Serial No. 418,886; July 18. Class 39.
New Chemical Products Co. (See Macaloon, Frank G.)
Newman, Louis, New York, N. Y. Textile fabrics in the piece. Serial No. 417,413; July 18. Class 42.
Nichols, Francis R., doing business as Edgol Company, Baltimore, Md. Preservative oil for razor blades and the like. Serial No. 419,196; July 18. Class 15.
Nutex Company, The, Philadelphia, Pa. Razors and razor blades. Serial No. 418,648; July 18. Class 23.
Olney & Carpenter, Inc., Wolcott, N. Y. Canned potato sticks. Serial No. 418,938; July 18. Class 46.
Pease Woodwork Company, Inc., Cincinnati, Ohio. Wood building materials which have been chemically treated. Serial No. 417,776; July 18. Class 12.
Pente, Meta, doing business as Fold-A-Way Products, Park Ridge, Ill. Folding paper products, paper toys, paper cut-outs, and paper die cut-outs. Serial No. 419,560; July 18. Class 22.
Petruzzelli, Oronzo, doing business as Petruzzelli Co., New York, N. Y. Skin lotion. Serial No. 419,595; July 18. Class 6.
Pfeiffer, S., Mfg. Co., St. Louis, Mo. Medicinal preparation. Serial No. 419,042; July 18. Class 6.
Planefilm Division. (See Daneman, Alfred S.)
Poretz Bros., Inc., New York, N. Y. Piece goods. Serial No. 420,113; July 18. Class 42.
Prescription Specialties Company, San Antonio, Tex. Ear drops, red bug lotion, cough syrup, etc. Serial No. 407,469; July 18. Class 6.
Prichard, Edward F., Paris, Ky. Beer, ale, porter, and stout. Serial No. 417,030; July 18. Class 48.
Rehthaler, Louis M., Battle Creek, Mich. Sacro-iliac and abdominal supporters. Serial No. 419,395; July 18. Class 44.
Rhodes, Herbert A., New York, N. Y. Wooden cross with clock therein. Serial No. 415,741; July 18. Class 27.
Roll, Arnold, Brooklyn, N. Y. Fresh eggs. Serial No. 391,014; July 18. Class 46.
Rose-Derry Company, Newton, Mass. Mattresses. Serial No. 420,238; July 18. Class 32.
Ross, J. O., Engineering Corporation, New York, N. Y. Hot water heat distribution units and parts therefor. Serial No. 419,397; July 18. Class 34.
Saccharinefabriek "Hollandia". (See Markovits, Emanuel M.)
Safety Speed Control Company, Chicago, Ill. Speedometer shaft. Serial No. 418,496; July 18. Class 26.
St. Louis Crystal Water and Soda Company, St. Louis, Mo. Soft drink. Serial No. 420,344; July 18. Class 45.
St. Louis Rice Milling Company, St. Louis, Mo. Brewer's rice. Serial No. 419,091; July 18. Class 46.
Schaeffer, Louis M., doing business as Schaeffer Products Company, Cleveland, Ohio. Prophylactic rubber articles. Serial No. 413,419; July 18. Class 44.
Schmid, Julius, Incorporated, New York, N. Y. Prophylactic rubber and membranous articles. Serial No. 420,341; July 18. Class 44.
Schoenburg, Paul P., Salinas, Calif. Fresh vegetables. Serial No. 419,447; July 18. Class 46.
Scholler Brothers, Inc., Philadelphia, Pa. Hosiery. Serial No. 419,528; July 18. Class 39.
Schuessler, Hamilton Company, St. Louis, Mo. Drinking straws. Serial Nos. 417,305–6; July 18. Class 50.
Schwebel, Benjamin, doing business as Akshun Company, New York, N. Y. Preparation for the relief of burning, itching, and soreness. Serial No. 416,163; July 18. Class 6.
Scull, William S., Company, Camden, N. J. Tea. Serial No. 419,399; July 18. Class 46.
Selig Company, The, Atlanta, Ga. Insecticides. Serial Nos. 418,749–50; July 18. Class 6.
Shorts, C. L., West Alexander, Pa. Liquid preparation for cleaning. Serial No. 419,164; July 18. Class 4.
Sokol Brand Products, Inc., New York, N. Y. Canned ham. Serial No. 417,105; July 18. Class 46.
South Jersey Underwear Co. Inc., New York, N. Y. Slips. Serial No. 417,658; July 18. Class 39.
Spareway Food Products, Inc., New York, N. Y. Mayonnaise. Serial No. 419,317; July 18. Class 46.

Stabinski, Edmund J., doing business as Life Lax Co., Ashley, Pa. Laxative. Serial No. 418,606; July 18. Class 6.
Standard Industrial Products, Inc., Evansville, Ind. Varnish, lacquer, brushing lacquer thinners, etc. Serial No. 416,345; July 18. Class 16.
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Internal combustion engines and parts thereof. Serial No. 417,511; July 18. Class 23.
State Chemical Manufacturing Company, The, Cleveland, Ohio. Furniture, floor, and automobile polish. Serial No. 413,599; July 18. Class 16.
Susquehanna Waist Company. (See Netzky, William.)
Ulmann, Bernhard, Co. Inc., New York, N. Y. Wool yarns. Serial No. 419,007; July 18. Class 43.
United Cigar-Whelan Stores Corporation, New York, N. Y. Candies. Serial No. 418,458; July 18. Class 46.
U. S. Expansion Bolt Co., York, Pa. Hand saws. Serial No. 418,696; July 18. Class 23.
U. S. Manufacturing Corporation, Decatur, Ill. Base metal dishes. Serial No. 402,959; July 18. Class 13.
United States Rubber Company, New York, N. Y. Separable fasteners for clothing. Serial No. 419,897; July 18. Class 13.
Universal Glove Company, Toledo, Ohio. Work gloves and mittens. Serial No. 419,201; July 18. Class 39.
Vegetable Oil Products Company, Inc., Wilmington, Calif. Oils and greases. Serial No. 419,824; July 18. Class 15.
Vella, Ruby S., doing business as KEF Products, Chicago, Ill. Tonic medicine for dogs and cats. Serial No. 417,314; July 18. Class 6.
Vidrio Products Corporation, Chicago, Ill. Electric fans. Serial No. 417,897; July 18. Class 21.
Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Metal clips. Serial No. 418,613; July 18. Class 40.
Watkins, J. R., Company, The, Winona, Minn. Medicinal abirritants, acotin, alkalizers, etc. Serial No. 406,614; July 18. Class 6.
Webster-Walsh Company, assignor to Kolene Corporation, Detroit, Mich. Cleaning solvent. Serial No. 416,752; July 18. Class 4.
West End Brewing Company, The, Utica, N. Y. Beer and ale. Serial No. 419,898; July 18. Class 48.
Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electrical insulating material. Serial No. 418,908; July 18. Class 21.
Williamson Candy Company, Chicago, Ill. Candy. Serial No. 419,462; July 18. Class 46.
Ziv Steel & Wire Co., Chicago, Ill. Hobbing steel. Serial No. 419,134; July 18. Class 14.

LIST OF REGISTRANTS OF TRADE-MARKS

Absolute Co., The. (See Poncy, Charles F.)
Aldine Paper Company, Incorporated, New York, N. Y. Filter or porous paper. 369,344; July 18; Serial No. 416,985; published May 9, 1939. Class 37.
Alexander Marketing Company, San Benito, Tex. Fresh vegetables. 369,290; July 18; Serial No. 416,715; published May 9, 1939. Class 46.
Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Garden hose. 369,330; July 18; Serial No. 417,791; published May 9, 1939. Class 35.
American Bemberg Corporation. (See Empire Silk Company, assignor.)
American Brewing Company, New Orleans, La. Beer and ale. 369,319; July 18; Serial No. 417,196; published May 9, 1939. Class 48.
American Flame Proofing Corporation, Everett, Wash. Chemical compounds. 369,215; July 18; Serial No. 415,573; published May 2, 1939. Class 6.
American La France-Foamite Corporation. (See Foamite Firefoam Company, assignor.)
American Seal-Kap Corporation of Delaware, Long Island City, N. Y. Milk bottle caps. 369,273; July 18; Serial No. 416,595; published May 9, 1939. Class 50.
American Tobacco Co., The, New York, N. Y. Cigarettes. 126,238; renewed Aug. 19, 1939.
Anathan-Walton, Inc., New York, N. Y. Dresses, jackets, blouses, etc. 369,377; July 18. Class 39.
Anton Sales Company, Philadelphia, Pa. Laxative tablets. 369,217; July 18; Serial No. 415,622; published May 9, 1939. Class 6.
Arnold, Schwinn & Co., Chicago, Ill. Bicycles. 369,284–5; July 18; Serial Nos. 416,673–4; published May 9, 1939. Class 19.
Associated Distributors, Inc., Chicago, Ill. Lipstick, rouge, face powder, etc. 369,206–7; July 18; Serial Nos. 415,467–8; published May 2, 1939. Class 6.
Ault & Wiborg Corporation, Cincinnati, Ohio, and New York, N. Y. Paints, varnishes and paint enamels. 369,255; July 18; Serial No. 416,397; published May 9, 1939. Class 16.
B & L Laboratories, Inc., Chicago, Ill. Saponaceous material. 369,356; July 18. Class 4.
Baker Clothes Inc., Philadelphia, Pa. Men's and boys' clothing. 369,195; July 18; Serial No. 415,199; published May 2, 1939. Class 39.
Ballard, Nicholas G., St. Francis, Ky. Liniment. 369,197; July 18; Serial No. 415,239; published May 2, 1939. Class 6.
Bastian-Morley Co., Inc., La Porte, Ind. Tank used in hot water heaters. 369,308; July 18; Serial No. 417,049; published May 9, 1939. Class 34.
Bazan, Isaac C., doing business as Grabo Chemical Company, Grand Rapids, Mich. Liquid cleaning agent. 369,218; July 18; Serial No. 415,626; published May 9, 1939. Class 4.
Behr-Manning Corporation, Troy, N. Y. Pile fabrics. 369,305–7; July 18; Serial Nos. 416,832–4; published May 9, 1939. Class 42.
Bendix, Jacob, New York, N. Y. Compound used in finishing of textile fabrics, also for use as a type of finish for textile fabrics, etc. 369,276; July 18; Serial No. 416,625; published May 9, 1939. Class 6.
Billingsly, L. B., doing business as L. B. Billingsly Machinery & Supply Company, Dallas, Tex. Dry cleaning machinery. 369,209; July 18; Serial No. 415,494; published May 2, 1939. Class 24.
Boone Rock Bottling Company, Spencer, N. C. Beverages and syrups and extracts for making the same. 369,260; July 18; Serial No. 416,452; published May 9, 1939. Class 45.
Borcherdt Malt Extract Co., Chicago, Ill. Vitamin B complex malt syrup. 369,320; July 18; Serial No. 417,200; published May 9, 1939. Class 6.
Bon Marche, The. (See Allied Stores Corporation.)
Bradshaw, J. C., doing business as Oil Tool Manufacturing Co., Houston, Tex. Bull plugs, boiler nipples, bushings, etc. 369,203; July 18; Serial No. 415,374; published May 9, 1939. Class 13.
Bramson, Roy T., assignor to The Bramson Publishing Company, Detroit, Mich., doing business as The Bramson Publishing Company. Magazine. 369,140; July 18; Serial No. 412,168; published May 9, 1939. Class 38.
Brater, John K., & Co., New York, N. Y. Medicinal cigarettes. 369,252; July 18; Serial No. 416,366; published Apr. 25, 1939. Class 6.
Bryant, Augustus H., New York, N. Y., to International Safety Razor Corporation, Bloomfield, N. J., successor. Safety-razors. 125,971; renewed July 22, 1939.
Bulova Watch Company, Inc., New York, N. Y. Watches. 369,180; July 18; Serial No. 414,684; published May 9, 1939. Class 27.
Burdick Laboratories, Los Angeles, Calif. Antiseptic solution. 369,143; July 18; Serial No. 412,494; published Apr. 25, 1939. Class 6.
Burtnett Drug Company, Wichita, Kans. Cough syrup. 369,267; July 18; Serial No. 416,503; published May 9, 1939. Class 6.
C. F. P. Laboratories. (See Cress, Howard G.)
Cable Raincoat Company, Boston, Mass. Summer sportwear. 369,224; July 18; Serial No. 415,762; published May 2, 1939. Class 39.
Campe Corporation, The, to The Campe Corporation, New York, N. Y., successor. Knitted underwear. 127,266; renewed Nov. 4, 1939.
Campe Corporation, The, to The Campe Corporation, New York, N. Y., successor. Knitted underwear. 127,346; renewed Nov. 11, 1939.
Caro-Lynn. (See James, Carrie.)
Carter Products, Inc., New York, N. Y. Laxative salt and pills. 369,321; July 18; Serial No. 417,260; published May 9, 1939. Class 6.
Cassin Laboratories. (See Tunder, Peter, Jr.)
Castilian Products Corp., Los Angeles, Calif. Nail polish, nail enamel, cuticle oil, etc. 369,219; July 18; Serial No. 415,634; published May 9, 1939. Class 6.
Central California Producers, Oakland, Calif. Fruit and vegetable juices. 369,122; July 18; Serial No. 405,437; published May 9, 1939. Class 46.
Chain Belt Company, Milwaukee, Wis. Cutlery, machinery, and tools, and parts thereof. 126,139–40; renewed July 29, 1939.
Chaumiere Farms. (See Woods, Woodson K.)
Chicago Mail Order Company, Chicago, Ill. Linoleum. 369,250; July 18; Serial No. 416,313; published May 2, 1939. Class 20.
Citraland Farms. (See Everhard, Clay.)
Clark-Millner Co., Chicago, Ill. Solution saturated eye masks. 369,335; July 18; Serial No. 416,890; published May 9, 1939. Class 6.
Clark, Sarah E., Co., New York, N. Y. Chili-con-carne. 369,249; July 18; Serial No. 416,283; published May 9, 1939. Class 46.
Clinton Company, Clinton, Iowa. Salad oil. 369,270; July 18; Serial No. 416,539; published May 9, 1939. Class 46.

Cobb, Clarence M., Boston, Mass. Laundry detergents and dry cleaning preparations. 369,331; July 18; Serial No. 416,840; published May 9, 1939. Class 4.
Coffelator Co., The, Newark, N. J. Coffee makers. 369,174; July 18; Serial No. 414,555; published May 9, 1939. Class 13.
Cohen, L., Grocer Company, St. Louis, Mo. Canned fish, fruits, vegetables, etc. 369,107; July 18; Serial No. 398,391; published Feb. 7, 1939. Class 46.
Cohn-Hall-Marx Co., New York, N. Y. Cotton, rayon, acetate, and/or piece goods. 369,243; July 18; Serial No. 416,178; published May 9, 1939. Class 42.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Powder puffs. 369,117; July 18; Serial No. 403,991; published May 9, 1939. Class 29.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Scripts for a series of commercial radio broadcasts. 369,228; July 18; Serial No. 415,836; published May 9, 1939. Class 38.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving cream. 369,332–3; July 18; Serial Nos. 416,841–2; published May 9, 1939. Class 4.
Columbia Shirt Co., Inc., New York, N. Y. Ladies' and men's pajamas and men's outer shirts. 369,223; July 18; Serial No. 415,703; published Apr. 25, 1939. Class 39.
Columbian Steel Tank Company, Kansas City, Mo. Sheet metal tanks and bins, steel barrels, etc. 369,121; July 18; Serial No. 405,383; published Apr. 25, 1939. Class 2.
Comerford, Kay, doing business as Comford Eye-Lets Co., Richmond Hill, N. Y. Device impregnated with lotion to be applied to the eyes. 369,256; July 18; Serial No. 416,401; published Apr. 25, 1939. Class 6.
Comford Eye-Lets Co. (See Comerford, Kay.)
Congoleum-Nairn, Inc., Kearny, N. J. Linoleum tile, cork carpet, etc. 369,235; July 18; Serial No. 415,938; published Apr. 25, 1939. Class 20.
Connor, Thomas E., Lynn, Mass. Pile-ointment. 127,013; renewed Oct. 21, 1939.
Cooperative G. L. F. Soil Building Service, Inc., New York and Ithaca, N. Y. Preservatives for feeds for live stocks. 369,192; July 18; Serial No. 415,074; published May 9, 1939. Class 6.
Corn, Ralph, Underwear, Inc., New York, N. Y. Slips, nightgowns, panties, etc. 369,259; July 18; Serial No. 416,437; published Apr. 25, 1939. Class 39.
Cress, Howard G., doing business as C. F. P. Laboratories, Monticello, Ga. Powder used in the treatment of athlete's foot or eczema of the feet or skin. 369,188; July 18; Serial No. 414,914; published Apr. 25, 1939. Class 6.
Crown Can Company, Philadelphia, Pa. Metal cans. 369,279; July 18; Serial No. 416,643; published May 9, 1939. Class 2.
Darrah, William A., Chicago, Ill. Industrial furnaces, dryers, pickling baths, etc. 369,145; July 18; Serial No. 412,595; published May 9, 1939. Class 34.
Day, Ned, Milwaukee, Wis. Bowling balls. 369,301; July 18; Serial No. 416,796; published May 9, 1939. Class 22.
Denver Leather Co., The, Denver, Colo. Leather. 369,280; July 18; Serial No. 416,644; published May 9, 1939. Class 1.
Dobeckmun Company, The, Cleveland, Ohio. Bags and merchandise envelopes. 369,141; July 18; Serial No. 412,332; published Apr. 25, 1939. Class 2.
Doermann-Roehrer Company, The, Cincinnati, Ohio. Belting, hose, and machinery packing. 127,921; renewed Dec. 16, 1939.
Doniger, David D., & Co., New York, N. Y. Bathing trunks and suits. 369,242; July 18; Serial No. 416,137; published Apr. 25, 1939. Class 39.
Doraldina Cosmetics, Inc., New York, N. Y. Triple strength astringent, acne lotion, cold cream, etc. 369,220; July 18; Serial No. 415,639; published May 2, 1939. Class 6.
Dorland International, Incorporated, New York, N. Y. Perfumery, toilet water, and astringent. 369,296; July 18; Serial No. 416,764; published May 9, 1939. Class 6.
Duff, Arthur W., Brockton, Mass. Coats and sweaters. 369,244; July 18; Serial No. 416,182; published May 2, 1939. Class 39.
Dunn, Leo J., trustee. (See Stevens, Seriah.)
Dunrite Trouser Company, New York, N. Y. Trousers, knickers, lumber jackets, etc. 369,148; July 18; Serial No. 412,888; published Apr. 25, 1939. Class 39.
Dutchess Underwear Corporation, New York, N. Y. Ladies' rayon underwear, pajamas, nightgowns, etc. 369,181; July 18; Serial No. 414,728; published Apr. 25, 1939. Class 39.
Eastman Kodak Company, Rochester, N. Y. Organic chemicals. 369,281; July 18; Serial No. 416,646; published May 9, 1939. Class 6.
Eaton Manufacturing Company, Cleveland, Ohio. Insulated container. 369,200; July 18; Serial No. 415,329; published Apr. 25, 1939. Class 2.
Ecclestone Chemical Company, Inc., Detroit, Mich. Souring agents. 369,164–5; July 18; Serial Nos. 414,259–60; published Apr. 25, 1939. Class 6.
Ehart, Matthew B., Philadelphia, Pa. Insecticide. 369,355; July 18. Class 6.
Ehlers, Albert, Inc., Brooklyn, N. Y. Coffee. 369,234; July 18; Serial No. 415,880; published May 9, 1939. Class 46.
Emfo Corporation, The, New York, N. Y. Perfume dispensers. 369,240; July 18; Serial No. 416,095; published Apr. 25, 1939. Class 2.
Empire Silk Company, Wilmington, Del., and New York, N. Y., assignor to American Bemberg Corporation, New York, N. Y. Silk piece goods. 125,804; renewed June 17, 1939.
Erwyn Products Inc., New York, N. Y. Perfume, rouge, perfumed bath salts, etc. 369,131; July 18; Serial No. 409,993; published May 9, 1939. Class 6.
Esko Manufacturing Corporation, Houston, Tex. Ventilating fans. 369,182; July 18; Serial No. 414,729; published May 9, 1939. Class 34.
Esquire-Coronet, Inc., assignor to Ken, Inc., Chicago, Ill. Publication. 369,104; July 18; Serial No. 395,339; published May 9, 1939. Class 38.
Essex Rubber Company, Trenton, N. J. Rubber railroad ties for tracks for toy trains. 369,316; July 18; Serial No. 417,121; published May 9, 1939. Class 22.
Everhard, Clay, doing business as Citraland Farms, Pharr, Tex. Fresh citrus fruits. 369,196; July 18; Serial No. 415,214; published Apr. 25, 1939. Class 46.
Farrar & Trefts, Incorporated, Buffalo, N. Y. Pressure tanks and hot water and steam boilers. 369,108; July 18; Serial No. 399,924; published May 9, 1939. Class 34.
Findley, Lester L., doing business as The-Cab-Ni-Tex Company, Los Angeles, Calif. Syringe cabinets. 369,119; July 18; Serial No. 404,197; published May 9, 1939. Class 32.
Fink Baking Corporation, New York, N. Y. Bread. 369,205; July 18; Serial No. 415,448; published May 9, 1939. Class 46.
Fink-Roselleve Co., Inc., New York, N. Y. Photographic preparations and chemicals. 369,309; July 18; Serial No. 417,053; published Apr. 25, 1939. Class 6.
Fisher Flouring Mills Co., Seattle, Wash. Wheat-flour. 127,610; renewed Nov. 18, 1939.
Foamite Firefoam Company, New York, N. Y., assignor, by mesne assignments to American-La France-Foamite Corporation, Elmira, N. Y. Fire-extinguishing compounds. 127,741; renewed Dec. 2, 1939.
Ford, J. B., Company, The, Wyandotte, Mich. Modified soda ash. 369,109; July 18; Serial No. 402,121; published May 2, 1939. Class 6.
Fort Howard Paper Company, Green Bay, Wis. Toilet paper, towels, and napkins. 369,291; July 18; Serial No. 416,725; published May 9, 1939. Class 37.
Franklin, Daisy, Jacksonville, Fla. Hair-growing preparations. 127,832; renewed Dec. 9, 1939.
Franks, Roye W., doing business as Windmaster Draft Control Co., Portland, Oreg. Draft control dampers for furnaces, heating plants, large commercial heating plants, etc. 369,130; July 18; Serial No. 409,841; published May 9, 1939. Class 34.
Freedman, Martin, New York, N. Y. Shirts. 369,363; July 18. Class 39.
Friedrich, Ed., Inc., San Antonio, Tex. Refrigerators and refrigerator cabinets. 369,310; July 18; Serial No. 417,055; published May 9, 1939. Class 31.
Frito Company, The, Dallas, Tex. Corn chips. 369,204; July 18; Serial No. 415,385; published May 9, 1939. Class 46.
Frito Company, The, Dallas, Tex. Peanut butter sandwiches. 369,229; July 18; Serial No. 415,842; published May 9, 1939. Class 46.
Gale-Rosenbaum Company, St. Louis, Mo. Wearing apparel. 369,173; July 18; Serial No. 414,524; published Apr. 25, 1939. Class 39.
Gas-It Corporation, New York, N. Y. Gas for cutting and welding purposes. 369,210; July 18; Serial No. 415,505; published May 2, 1939. Class 6.
Gemloid Corporation, New York, N. Y. Post cards. 369,171; July 18; Serial No. 414,399; published May 9, 1939. Class 38.
General Food Products Co. (See Safeway Stores, Inc.)
General Tire & Rubber Company, The, Akron, Ohio. Tires. 369,132; July 18; Serial No. 410,107; published May 9, 1939. Class 35.
Glidden Company, The, doing business as Southern Pine Chemical Company, Cleveland, Ohio. Mixture of phenols. 369,168; July 18; Serial No. 414,344; published May 9, 1939. Class 6.
Globe Oil & Refining Company, The, Wichita, Kans. Tires and tubes. 369,184–5; July 18; Serial Nos. 414,875–6; published May 9, 1939. Class 35.
Goldsmith Bros., New York, N. Y. Fasteners. 369,292; July 18; Serial No. 416,726; published May 9, 1939. Class 37.
Goldwaters Mercantile Co., Phoenix, Ariz. Dresses. 369,154; July 18; Serial No. 413,631; published Apr. 25, 1939. Class 39.
Gomshall Tanneries Limited, Gomshall, England. Leather. 369,216; July 18; Serial No. 415,591; published May 9, 1939. Class 1.
Goodall Worsted Company, Sanford, Maine. Piece goods. 369,313; July 18; Serial No. 417,089; published May 9, 1939. Class 42.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Asbestos packing. 126,597; renewed Sept. 23, 1939.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Rubber belting. 126,686; renewed Sept. 30, 1939.

Grabo Chemical Company. (See Bazan, Isaac C.)
Grand Union Company, The, New York, N. Y. Baking powder, candy, fruits, etc. 369,137; July 18; Serial No. 411,375; published May 9, 1939. Class 46.
Green Bay Food Company, Green Bay, Wis. Canned prepared salad. 369,322; July 18; Serial No. 417,279; published May 9, 1939. Class 46.
Griffin, Rose B., doing business as the Worm Right Co., Tulsa, Okla. Preparation for worming poultry. 369,365; July 18. Class 6.
Gross, Alexander S., Inc., New York, N. Y. Dresses. 369,378; July 18. Class 39.
Gutman Bros., New York, N. Y. Leather. 369,245; July 18; Serial No. 416,187; published May 9, 1939. Class 1.
H. P. Coffee Company, St. Louis, Mo. Coffee, spices, and food-flavoring extracts. 127,726; renewed Dec. 2, 1939.
Hamman Exploration Company, Houston, Tex. Gasoline, oil and greases. 369,236; July 18; Serial No. 415,948; published Apr. 25, 1939. Class 15.
Hansen, Carl U. F. K., Copenhagen, Denmark. Cheese. 369,311; July 18; Serial No. 417,058; published May 9, 1939. Class 46.
Harbison-Walker Refractories Company, Pittsburgh, Pa. Covers for ingot molds. 369,116; July 18; Serial No. 403,686; published May 9, 1939. Class 50.
Harlingen Canning Co., Harlingen, Tex. Canned citrus juices. 369,293; July 18; Serial No. 416,728; published May 9, 1939. Class 45.
Harrison, Monroe, Chicago, Ill. Fruit juices and concentrates. 369,155; July 18; Serial No. 413,708; published May 9, 1939. Class 45.
Harvey & Howe, Inc., Chicago, Ill. Publication. 369,160; July 18; Serial No. 414,071; published May 9, 1939. Class 38.
Helman, Arthur S., Inc., New York, N. Y. Rayon and acetate piece goods. 369,138; July 18; Serial No. 411,455; published May 9, 1939. Class 42.
Helbros Watch Co. Inc., New York, N. Y. Watches. 369,294; July 18; Serial No. 416,730; published May 9, 1939. Class 27.
Hermes, S. A., Paris, France. Clocks and watches. 369,271; July 18; Serial No. 416,559; published May 9, 1939. Class 27.
Hickok Oil Corporation, Toledo, Ohio. Solvent preparations. 369,166; July 18; Serial No. 414,263; published Apr. 25, 1939. Class 6.
Hickory Dairy Co., Holly, Mich. Butter, cheese, milk, etc. 369,135; July 18; Serial No. 410,467; published May 9, 1939. Class 46.
Highland Sales Company, Denver, Colo. Canned mushrooms. 369,199; July 18; Serial No. 415,290; published May 9, 1939. Class 46.
Hill, Arthur J., San Francisco, Calif. Life-insurance publication. 127,949; renewed Dec. 16, 1939.
Hingeco Vanities, Inc., Providence, R. I. Vanity cases. 369,169; July 18; Serial No. 414,351; published May 2, 1939. Class 6.
Huffman Full Fashioned Mills, Inc., Morganton, N. C. Hosiery. 369,238; July 18; Serial No. 416,012; published May 2, 1939. Class 39.
Ideal Linen Mesh Company, Poughkeepsie, N. Y. Linen-mesh underwear. 126,021; renewed July 22, 1939.
Industrial Soap Co., St. Louis, Mo. Sweeping compound, metal polish, toilet soap, etc. 369,225; July 18; Serial No. 415,779; published May 9, 1939. Class 4.
Ingersoll Shaver Corporation, Wilmington, Del. Electric shavers. 369,357; July 18. Class 23.
International Safety Razor Corporation. (See Bryant, Augustus H.)
Iodent Chemical Company, Detroit, Mich. Medicated composition. 369,317; July 18; Serial No. 417,154; published May 9, 1939. Class 6.
Italian Swiss Colony, San Francisco, Calif. Wines. 369,345; July 18; Serial No. 417,013; published May 9, 1939. Class 47.
James, Carrie, doing business as Caro-Lynn, New York, N. Y. Tissue cream. 369,189; July 18; Serial No. 414,954; published May 2, 1939. Class 6.
Juvenile Jewelry Company, Chicago, Ill. Baby and children's jewelry. 369,246; July 18; Serial No. 416,192; published May 9, 1939. Class 28.
Kaehler, Arnold A., doing business as Sturdiwheat Company, Red Wing, Minn. Basic food product made from wheat. 369,326; July 18; Serial No. 417,336; published May 9, 1939. Class 46.
Kahn, Arthur, Co., Inc., New York, N. Y. Cotton piece goods. 369,341; July 18; Serial No. 416,957; published May 9, 1939. Class 42.
Katz Underwear Co., Honesdale, Pa. Pajamas and nightgowns. 369,253; July 18; Serial No. 416,378; published Apr. 25, 1939. Class 39.
Kaufman, Ruth, New York, N. Y. Feather trees. 369,152; July 18; Serial No. 413,378; published May 9, 1939. Class 50.
Kaylon, Inc., New York, N. Y. Pajamas. 369,268; July 18; Serial No. 416,513; published May 2, 1939. Class 39.
Ken, Inc. (See Esquire-Coronet.)
Kewanee Liquids Manufacturing Co., Kewanee, Ill. Poultry medicine. 369,103; July 18; Serial No. 415,125; published May 2, 1939. Class 6.
Knox, E. M., Santa Fe, N. Mex. Piece goods. 369,369; July 18. Class 42.
Korona Drug Co. (See Reyes, Joseph A.)
Korwood Incorporated, Chicago, Ill. Glass coffee makers and parts thereof. 369,274; July 18; Serial No. 416,609; published May 9, 1939. Class 33.
Kuttner-De Costa & Co., Philadelphia, Pa. Blouses, dresses, and suits. 369,162; July 18; Serial No. 414,154; published Apr. 25, 1939. Class 39.
Laboratoires Romon Société à Responsabilité Limitée, Paris, France. Magnesium preparation. 369,191; July 18; Serial No. 415,042; published May 2, 1939. Class 6.
Laclede Steel Company, St. Louis, Mo. Steel joists and wire mesh. 369,110; July 18; Serial No. 402,427; published May 9, 1939. Class 12.
Lane & Campbell, Providence, R. I. Concentrate and syrup for making beverages. 369,211; July 18; Serial No. 415,516; published May 9, 1939. Class 45.
Lange, H. T., Company, The, Eau Claire, Wis. Foods. 127,759; renewed Dec. 2, 1939.
Lansburgh & Bro., Washington, D. C. Nurses' uniforms. 369,241; July 18; Serial No. 416,104; published Apr. 25, 1939. Class 39.
Larus & Brother Company, Inc., Richmond, Va. Tobacco products. 369,257; July 18; Serial No. 416,427; published May 9, 1939. Class 17.
Laucks, I. F., Inc., Seattle, Wash. Glues. 369,247; July 18; Serial No. 416,193; published Apr. 25, 1939. Class 5.
Leduc, Marcel, New York, N. Y. Toilet water, eau de cologne, suntan oil, etc. 369,157; July 18; Serial No. 413,835; published May 9, 1939. Class 6.
Leigh Chemist, Inc., New York, N. Y. Toilet creams. 369,201; July 18; Serial No. 415,341; published May 9, 1939. Class 6.
Lentheric, Incorporated, New York, N. Y. After shave lotion, eau de cologne, and scalp stimulant. 369,314; July 18; Serial No. 417,092; published May 9, 1939. Class 6.
Lentheric, Incorporated, New York, N. Y. Perfumes. 369,315; July 18; Serial No. 417,093; published May 9, 1939. Class 6.
Levy, Maurice, doing business as Malvy, New York, N. Y. Perfume. 369,346; July 18; Serial No. 417,021; published May 2, 1939. Class 6.
Levy, Maurice, doing business as Malvy, New York, N. Y. Perfume. 369,347; July 18; Serial No. 417,022; published May 9, 1939. Class 6.
Lip Aid Laboratory, New York, N. Y. Lipstick. 369,372; July 18. Class 6.
London House, Ltd., New York, N. Y. Pipes. 369,342; July 18; Serial No. 416,961; published May 9, 1939. Class 8.
Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Fabrics in the piece. 369,125; July 18; Serial No. 405,883; published May 9, 1939. Class 42.
Lowe, Henry A., Cleveland, Ohio, assignor, by mesne assignments, to The L. S. Starrett Company, Athol, Mass. Machinists' and tool-makers' test-indicators. 127,438; renewed Nov. 11, 1939.
M. V. C. Laboratories, Inc., Toledo, Ohio. Manicure preparation. 369,361; July 18. Class 6.
Magnolia Citrus Association, Porterville, Calif. Fresh citrus fruit. 369,323; July 18; Serial No. 417,287; published May 9, 1939. Class 46.
Malvy. (See Levy, Maurice.)
Mason Drug Co. (See Stevens, Seriah.)
Mathie-Ruder Brewing Company, Wausau, Wis. Beer. 369,142; July 18; Serial No. 412,350; published May 9, 1939. Class 48.
McCoy's Products, Inc., New York, N. Y. Liquid preparations. 369,336; July 18; Serial No. 416,909; published May 9, 1939. Class 6.
McLoughlin Bros., Inc., Springfield, Mass. Combination song book and musical toy. 369,159; July 18; Serial No. 413,873; published May 9, 1939. Class 22.
Miller, Polk, Products Corporation, Richmond, Va. Therapeutic food supplement for dogs. 369,186; July 18; Serial No. 414,890; published May 2, 1939. Class 6.
Milwhite Company, Inc., The, Houston, Tex. Chemical mud-thinner. 369,318; July 18; Serial No. 417,179; published May 9, 1939. Class 6.
Minneapolis Knitting Works, Minneapolis, Minn. Overalls for women. 369,178; July 18; Serial No. 414,635; published May 2, 1939. Class 39.
Monsanto Chemical Company, St. Louis, Mo. Plastic compositions. 369,153; July 18; Serial No. 413,416; published May 9, 1939. Class 50.
Monsanto Chemical Company, St. Louis, Mo., and Indian Orchard, Mass. Golf tees. 369,258; July 18; Serial No. 416,433; published May 9, 1939. Class 22.
Moore Dry Kiln Company of Oregon, North Portland, Oreg. Dry kilns. 369,128; July 18; Serial No. 408,469; published May 9, 1939. Class 34.
Morel, Adele, New York, N. Y. Face and dusting powder, toilet water, etc. 369,286–7; July 18; Serial Nos. 416,695–6; published Apr. 25, 1939. Class 6.
Morton Chemical Company, Greensboro, N. C. Sulphonated oils, finishing oils, dyeing oils, etc. 369,230; July 18; Serial No. 415,849; published May 9, 1939. Class 6.
Morton Chemical Company, Greensboro, N. C. Series of organic specialties. 369,231; July 18; Serial No. 415,850; published May 9, 1939. Class 6.

Morton Chemical Company, Greensboro, N. C. Series of organic wetting and penetrating agents. 369,232; July 18; Serial No. 415,851; published May 9, 1939. Class 6.
Mouakad Bros. Inc., New York, N. Y. Piece goods. 369,239; July 18; Serial No. 416,071; published May 9, 1939. Class 42.
Myers, E., Lye Company, St. Louis, Mo. Lye. 127,644; renewed Nov. 18, 1939.
N. V. Hollandsche Draad-en Kabelfabriek, Amsterdam, Netherlands. Electric cables, wires, and cords, etc. 369,167; July 18; Serial No. 414,304; published Apr. 25, 1939. Class 21.
Nashua Mfg. Co., Nashua, N. H., to Nashua Mfg. Co., Nashua, N. H., and Boston, Mass. Cotton piece goods and blankets. 127,973; renewed Dec. 16, 1939.
National Brief Case Mfg. Co., Chicago, Ill. Portable cases. 369,198; July 18; Serial No. 415,256; published Apr. 25, 1939. Class 3.
National Carbide Corporation, New York, N. Y. Calcium carbide. 369,120; July 18; Serial No. 404,226; published Apr. 25, 1939. Class 6.
National Carbon Company, Inc., New York, N. Y. Carbon and graphite products. 369,343; July 18; Serial No. 416,965; published May 9, 1939. Class 12.
National Industries for the Blind, New York, N. Y. Linen towels, waffle mats, hit and miss rugs, etc. 369,302; July 18; Serial No. 416,812; published May 9, 1939. Class 42.
Night Comfort, Inc., Philadelphia, Pa. Sleeping garments and lounging robes. 369,360; July 18. Class 39.
No-Gra Laboratories, Inc., Miami, Fla. Liquid preparation for restoring the color of gray hair. 369,380; July 18. Class 6.
Noton, T., Oldham, England. Belt dressing. 369,147; July 18; Serial No. 412,826; published May 9, 1939. Class 4.
Nulomoline Company, The, New York, N. Y. Table syrup. 127,859; renewed Dec. 9, 1939.
Nunnally Company, The, Atlanta, Ga. Candy. 369,233; July 18; Serial No. 415,859; published May 9, 1939. Class 46.
Oil Tool Manufacturing Co. (See Bradshaw, J. C.)
Orange-Crush Company, Chicago, Ill. Beverages and compound concentrates and sirups for the manufacture thereof. 369,261; July 18; Serial No. 416,475; published May 9, 1939. Class 45.
Orbis Products Corporation, New York, N. Y. Olive oil and oil of peppermint for medicinal purposes. 369,254; July 18; Serial No. 416,382; published Apr. 25, 1939. Class 6.
Organite Company, The, Detroit, Mich. Water and brine treating composition for rust and scale prevention and removal, and water softening. 369,133; July 18; Serial No. 410,337; published Apr. 25, 1939. Class 6.
Partee, Charles W., doing business as Select Products Company, Memphis, Tenn. Antiseptic preparations. 369,208; July 18; Serial No. 415,485; published May 2, 1939. Class 6.
Patek & Co., San Francisco, Calif. Compound for removing cosmetics from fabrics. 369,126; July 18; Serial No. 406,937; published Aug. 2, 1938. Class 4.
Penick & Ford, Ltd. Incorporated, New York, N. Y. Preparations used in finishing papers and textiles, and laundry starch. 369,371; July 18. Class 6.
Perichon, Suzanne, Paris, France. Perfumes, toilet waters, rouge, etc. 369,328; July 18; Serial No. 417,414; published May 9, 1939. Class 6.
Peroxide Chemical Co., The, also doing business as Western Peroxide Co., St. Louis, Mo. Mouth wash. 369,251; July 18; Serial No. 416,335; published Apr. 25, 1939. Class 6.
Pictorial Review Company, The, assignor, by mesne assignments, to Pictorial Review Pattern Company, Inc., New York, N. Y. Dress-patterns. 127,110; renewed Oct. 21, 1939.
Pine Hill Lime & Stone Company, Pine Hill, Ky. Masonry cement, stucco, and a plastic cement. 369,127; July 18; Serial No. 408,205; published May 9, 1939. Class 12.
Poindexter Company. (See Seymour, Walter B.)
Poncy, Charles F., doing business as The Absolute Co., Ottumwa, Iowa. Hair shampoo, and preparation for dandruff. 369,149; July 18; Serial No. 413,241; published May 2, 1939. Class 6.
Popowitz and Neuman, New York, N. Y. Frozen confection. 369,353; July 18. Class 46.
Propper-McCallum Hosiery Co. Inc., New York, N. Y. Hosiery. 369,368; July 18. Class 39.
Pruden Coal & Coke Company, Knoxville, Tenn. Coal. 369,175; July 18; Serial No. 414,575; published May 9, 1939. Class 1.
Pycope Incorporated, Jersey City, N. J. Tooth powder. 369,172; July 18; Serial No. 414,507; published Apr. 25, 1939. Class 6.
Radiant Finish Company, Chicago, Ill. Varnish-like finish. 369,194; July 18; Serial No. 415,186; published May 9, 1939. Class 16.
Radium Chemical Company, Inc., New York, N. Y. Medical applicators. 369,351; July 18. Class 44.
Radix Sociedad de Responsibilidad, Limitada, Buenos Aires, Argentina. Plant growing compounds. 369,139; July 18; Serial No. 412,152; published Apr. 25, 1939. Class 10.
Ragan, Mary E., Centerton, Ind. Liniment and herb compound. 369,295; July 18; Serial No. 416,744; published May 9, 1939. Class 6.
Rakestraw, Julius S., Chicago, Ill. Topical preparation for the treatment of infections of the skin. 369,359; July 18. Class 6.
Refinite Corporation, The, Omaha, Nebr. Water softening apparatus. 369,163; July 18; Serial No. 414,238; published May 9, 1939. Class 13.
Remington Rand Inc., Buffalo, N. Y. Copyholders. 369,272; July 18; Serial No. 416,582; published May 9, 1939. Class 37.
Reno Brewing Company, Inc., Reno, Nev. Beer. 369,118; July 18; Serial No. 404,490; published May 9, 1939. Class 48.
Rex Products Corporation, New York, N. Y. Cigarette cases. 369,262; July 18; Serial No. 416,479; published May 9, 1939. Class 8.
Reyes, Joseph A., doing business as Korona Drug Co., Stockton, Calif. Penetrating ointment. 369,146; July 18; Serial No. 412,667; published Apr. 4, 1939. Class 6.
Rice-Stix Dry Goods Company, St. Louis, Mo. Piece goods. 125,838; renewed June 17, 1939.
Riggio Tobacco Corporation, New York, N. Y. Cigarettes. 369,300; July 18; Serial No. 416,787; published May 9, 1939. Class 17.
Roberts, Clyde N., doing business as Roberts Onirub Co., Huntington, W. Va. Salve. 369,212; July 18; Serial No. 415,523; published May 2, 1939. Class 6.
Rossano, G., & Bro. Inc., New York, N. Y. Canned tomatoes. 369,176; July 18; Serial No. 414,577; published May 9, 1939. Class 46.
Rubinstein, Helena, Inc., New York, N. Y. Face powder, lipstick, rouge, etc. 369,183; July 18; Serial No. 414,799; published May 2, 1939. Class 6.
Safeway Stores, Inc., also doing business as General Food Products Co., Vernon and Oakland, Calif. Canned tomatoes. 369,221; July 18; Serial No. 415,667; published May 9, 1939. Class 46.
Sage, Peggy, Inc., New York, N. Y. Nail polish. 369,288–9; July 18; Serial Nos. 416,702–3; published Apr. 25, 1939. Class 6.
Sage, Peggy, Inc., New York, N. Y. Nail polish. 369,329; July 18; Serial No. 417,714; published May 9, 1939. Class 6.
Sager Specialties, Inc., Chicago, Ill., assignor to Sager Specialties Corp., Green Bay, Wis. Water softener. 369,352; July 18. Class 6.
Sagner, A., & Sons, Inc., Baltimore, Md. Coats and suits. 369,222; July 18; Serial No. 415,668; published Apr. 25, 1939. Class 39.
Sagner, A., & Sons, Inc., Baltimore, Md. Suits and overcoats. 369,364; July 18. Class 39.
Salem Chemical & Supply Co., Salem, Mass. Disinfectants, germicides, ammonia, etc. 369,202; July 18; Serial No. 415,354; published Apr. 25, 1939. Class 6.
Sapewa Pharmazeutische Präparate Ernst F. P. Wesche, Berlin, Germany. Medicinal preparation. 369,105; July 18; Serial No. 396,614; published Feb. 8, 1938. Class 6.
Saravel, Inc., New York, N. Y. Toilet water, face powder, perfume, etc. 369,338–40; July 18; Serial Nos. 416,918–20; published May 9, 1939. Class 6.
Schering Corporation, Bloomfield, N. J. Medicinal preparation. 369,275; July 18; Serial No. 416,619; published May 9, 1939. Class 6.
Schick, Harry C., Inc., Newark, N. J. Necklace clasps and snaps and other articles of jewelry. 369,134; July 18; Serial No. 410,439; published May 9, 1939. Class 28.
Schneierson, I., & Sons, Inc., New York, N. Y. Chemises, princess slips, step-ins, etc. 369,226; July 18; Serial No. 415,798; published Apr. 25, 1939. Class 39.
Schuessler, Hamilton Company, St. Louis, Mo. Beverages, and syrups and extracts for making the same. 369,324; July 18; Serial No. 417,304; published May 9, 1939. Class 45.
Sears, Roebuck and Co., Chicago, Ill. Dresses, play suits, and slacks. 369,263; July 18; Serial No. 416,482; published Apr. 25, 1939. Class 39.
Select Products Company. (See Partee, Charles W.)
Selma Products Co., Los Angeles, Calif. Formula for reconditioning the hair. 369,362; July 18. Class 6.
Seymour, Walter B., doing business as Poindexter Company, Bessemer, Ala. Medicinal oil. 369,374; July 18. Class 6.
Shedd Products Company, Detroit, Mich. Oleomargarine. 369,303; July 18; Serial No. 416,818; published May 9, 1939. Class 46.
Sheffield, R. W., Houston, Tex. Ointment. 369,187; July 18; Serial No. 414,898; published May 2, 1939. Class 6.
Sheldon, F. M., doing business as Super-Digester Products Company, Pasadena, Calif. Vitamin mineral supplement for dogs and cats. 369,237; July 18; Serial No. 416,001; published May 9, 1939. Class 6.
Shirley Silk Co., Inc., New York, N. Y. Silk textile fabrics in the piece. 369,264; July 18; Serial No. 416,483; published May 9, 1939. Class 42.
Shlansky, Phillip, & Bro., Inc., New York, N. Y. Women's and misses' suits, and coat and suit ensembles. 369,375; July 18. Class 39.
Siegel, A., & Sons Inc., New York, N. Y. Cigars. 369,376; July 18. Class 17.

Skinner, William, & Sons, Holyoke, Mass., and New York, N. Y. Piece goods. 369,112; July 18; Serial No. 403,019; published May 9, 1939. Class 42.
Smith, Kline & French Laboratories, Philadelphia, Pa. Medicinal agent. 369,170; July 18; Serial No. 414,374; published Apr. 25, 1939. Class 6.
Smith, Landon P., Inc., Irvington, N. J. Bill-boards. 369,304; July 18; Serial No. 416,819; published May 9, 1939. Class 50.
Sociedad Agricola Paramonga, Lima, Peru. Granulated sugar. 369,277; July 18; Serial No. 416,626; published May 9, 1939. Class 46.
Sociedad Agricola Paramonga, Lima, Peru. Granulated sugar. 369,278; July 18; Serial No. 416,629; published May 9, 1939. Class 46.
Societe Anonyme les Parfumeries de Gabilla, Paris, France. Perfumes, toilet water, eau de cologne, etc. 369,366; July 18. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Tanning agents and textile assistants. 369,113; July 18; Serial No. 403,477; published May 9, 1939. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Tanning agents and textile assistants. 369,114; July 18; Serial No. 403,479; published May 9, 1939. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Female sex hormone preparation. 369,297–8; July 18; Serial Nos. 416,777–8; published May 9, 1939. Class 6.
Society of Chemical Industry in Basle, Basel, Switzerland. Leather pigment finishing colors. 369,299; July 18; Serial No. 416,779; published May 9, 1939. Class 6.
Southern Pine Chemical Company. (See Glidden Company.)
Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Lubricating oil. 369,156; July 18; Serial No. 413,802; published May 2, 1939. Class 15.
Stanis. (See Stanley, Sinclair G.)
Stanley, Sinclair G., doing business as Stanis, Chicago, Ill. Laxative tablets. 369,348; July 18; Serial No. 417,032; published May 9, 1939. Class 6.
Stanley, Sinclair G., doing business as Stanis, Chicago, Ill. Perfume. 369,349; July 18; Serial No. 417,035; published May 2, 1939. Class 6.
Starrett, L. S., Company, The. (See Lowe, Henry A., assignor.)
Staten Island Home Utilities, Inc., Port Richmond and Staten Island, N. Y. Gasoline. 369,129; July 18; Serial No. 409,113; published Apr. 25, 1939. Class 15.
Stein, Hall & Company, Inc., New York, N. Y. Sizing or finishing agents. 369,334; July 18; Serial No. 416,877; published Apr. 25, 1939. Class 6.
Stevens, Ruey B. (See Stevens, Seriah.)
Stevens, Seriah, to Leo J. Dunn, trustee of the estate of Ruey B. Stevens, deceased, doing business as Mason Drug Co., Boston, Mass., successor. Pharmaceutical preparations. 127,205; renewed Oct. 21, 1939.
Stover, Russell, doing business as Zephyr Freeze Company, Kansas City, Mo. Ice cream, ices, sherbets, etc. 369,136; July 18; Serial No. 410,561; published May 9, 1939. Class 46.
Streicher Mfg. Company, Newark, N. J. Finger rings and finger ring findings. 369,269; July 18; Serial No. 416,525; published May 9, 1939. Class 28.
Strouck, S., & Co., Inc., New York, N. Y. Women's coats of camel hair. 369,190; July 18; Serial No. 414,969; published Apr. 25, 1939. Class 39.
Structural Slate Company, The, Pen Argyl, Pa. Structural slate. 127,993; renewed Dec. 16, 1939.
Sturdiwheat Company. (See Kaehler, Arnold A.)
Style Garment Company Inc., Los Angeles, Calif. Ladies' cloaks, coats, and suits. 369,150; July 18; Serial No. 413,249; published Apr. 25, 1939. Class 39.
Super-Digester Products Company. (See Sheldon, F. M.)
Supreme Olive Oil Corporation, San Fernando, Calif. Cosmetics. 369,282; July 18; Serial No. 416,662; published May 9, 1939. Class 6.
Susquehanna Collieries Company, Cleveland, Ohio. Anthracite coal. 369,106; July 18; Serial No. 398,266; published May 9, 1939. Class 1.
Tan-Sol Company, The, St. Louis, Mo. Solution for use in removing adhesive tape, corn plasters, etc., and ointment. 369,213; July 18; Serial No. 415,528; published May 2, 1939. Class 6.
The-Cab-Ni-Tex Company. (See Findley, Lester L.)
Towson Nurseries, Inc., Towson, Md. Publication. 369,214; July 18; Serial No. 415,529; published May 9, 1939. Class 38.
Tracey, John J., Company, Chicago, Ill. Toilet soaps. 369,350; July 18; Serial No. 417,036; published May 9, 1939. Class 4.
Transpec Company, Toronto, Ontario, Canada. Skin lotion. 369,144; July 18; Serial No. 412,565; published Apr. 25, 1939. Class 6.
Tru Test Marketing & Merchandising Corp., Chicago, Ill. Gasoline lanterns, pilot cigarette lighters, woven wicks, etc. 369,161; July 18; Serial No. 414,128; published May 9, 1939. Class 34.
Tunder, Peter, Jr., doing business as Cassin Laboratories, Cleveland, Ohio. Dandruff remover shampoo, and hair oil. 369,367; July 18. Class 6.
Tyree, J. S., Chemist, Inc., Washington, D. C. Liquid medicinal preparations. 369,312; July 18; Serial No. 417,067; published May 9, 1939. Class 6.
Union Oil Company of California, Los Angeles, Calif. Polishing waxes, and self-polishing wax. 369,265; July 18; Serial No. 416,489; published May 9, 1939. Class 16.
Union Oil Company of California, Los Angeles, Calif. Metal polish. 369,266; July 18; Serial No. 416,490; published May 9, 1939. Class 4.
United-Americas Distributors, Miami Beach, Fla. Medicinal headache tablet. 369,354; July 18. Class 6.
United Refining Co., Russell, Kans. Gasoline, motor oils, and automobile greases. 369,123; July 18; Serial No. 405,707; published May 9, 1939. Class 15.
United States Mineral Wool Company, Chicago, Ill. Thermal insulating material. 369,358; July 18. Class 12.
Universal Table Tennis Corporation, Boston, Mass. Table-tennis sets. 369,325; July 18; Serial No. 417,313; published May 9, 1939. Class 22.
Vanity Fair Silk Mills, Reading, Pa. Underwear. 369,227; July 18; Serial No. 415,810; published Apr. 25, 1939. Class 39.
Vereinigte Deutsche Metallwerke Aktiengesellschaft, Frankfort-on-the-Main Heddernheim, Germany. Bituminous adhesives and cements, and luting materials. 369,158; July 18; Serial No. 413,847; published May 9, 1939. Class 12.
Ward Baking Company, New York, N. Y. Cakes. 127,699; renewed Nov. 18, 1939.
Warshauer & Franck, Inc., Boston, Mass. Dresses. 369,370; July 18. Class 39.
Weil Packing Company, Evansville, Ind. Meats and meat products. 369,373; July 18. Class 46.
Westchester Optical Company, Inc., White Plains, N. Y. Sunglasses and spectacles. 369,379; July 18. Class 26.
Western Peroxide Co. (See Peroxide Chemical Co., The.)
Whelkin Coat Co. Inc., New York, N. Y. Coats and suits. 369,248; July 18; Serial No. 416,220; published Apr. 25, 1939. Class 39.
Whittaker Laboratories, Inc., New York, N. Y. Cream-like spermicidal substances. 369,115; July 18; Serial No. 403,623; published May 2, 1939. Class 6.
Whyte & Mackay, Limited, Glasgow, Scotland. Whisky. 369,177; July 18; Serial No. 414,584; published May 9, 1939. Class 49.
Williams Patent Crusher and Pulverizer Company, St. Louis, Mo. Machinery and tools, and parts thereof. 124,358; renewed Feb. 4, 1939.
Windmaster Draft Control Co. (See Franks, Roye W.)
Winkler, Kaspar, & Co., Altstetten, Switzerland. Preparation for adding to cement, plaster, etc. 369,111; July 18; Serial No. 402,883; published Oct. 11, 1938. Class 12.
Winkler, Kaspar, & Co., Altstetten, Switzerland. Preparations for adding to cement, plasters, etc. 369,124; July 18; Serial No. 405,865; published Oct. 11, 1938. Class 12.
Winthrop Chemical Company, Inc., New York, N. Y. Vitamin B complex preparation. 369,327; July 18; Serial No. 417,353; published May 9, 1939. Class 6.
Wishnick-Tumpeer, Inc., Chicago, Ill. Acetic acid, acetone, alcohol, etc. 369,151; July 18; Serial No. 413,260; published May 2, 1939. Class 6.
Wood Ridge Manufacturing Co., Inc., The, Wood Ridge, N. J. Medicament. 369,179; July 18; Serial No. 414,673; published Apr. 25, 1939. Class 6.
Woods, Woodson K., doing business as Chaumiere Farms, Steelville, Mo. Soil fertilizer material. 369,283; July 18; Serial No. 416,669; published May 2, 1939. Class 10.
Worm Right Co. (See Griffin, Rose B.)
Zephyr Freeze Company. (See Stover, Russell.)

LIST OF REGISTRANTS OF LABELS

American Tissue Mills, Holyoke, Mass. Waxed Refrigerator Paper. For Waxed Paper. 53,264; July 18.
American Tissue Mills, Holyoke, Mass. Heavy Waxed Paper. For Waxed Paper. 53,265; July 18.
American Tissue Mills, Holyoke, Mass. Waxed Lunch Wraps. For Waxed Paper. 53,266; July 18.
Awful Fresh MacFarlane, Oakland, San Francisco, and Berkeley, Calif. Sampler. For Candy and Nuts. 53,267; July 18.
Baron, Saul J., doing business as Master Brands of America, New York, N. Y. Bra-Sir. For a Syrup Prepared from Extractions of Fruit Juices, Kola-Nut Berries, Caffeine and Other Flavoring Material Colored with Caramel. 53,268; July 18.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Coffee. For Coffee. 53,269; July 18.
Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Cheese Cocktailettes. For Biscuits. 53,270; July 18.

Bird & Son, Inc., East Walpole, Mass. Dalton Quality Shoes Styled by Jack Young. For Cartons. 53,271; July 18.

Borrowed Timers, The, Ellensburg, Wash. Prayer Reminder. For an Article for Religious Purposes. 53,272; July 18.

Bub, Peter, Brewery, Inc., doing business as Peter Bub Brewery, Winona, Minn. Bub's Pilsen Beer. For Beer. 53,295; July 18.

California and Hawaiian Sugar Refining Corporation, Limited, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. C and H Sugar Pure Cane Brown. For Brown Sugar. 53,273; July 18.

Cotton Belt Drug Company, Inc., Augusta, Ga. Doctor Videtto's Hedlease. For Powders for the Relief of Pain Arising from Simple Headaches and Neuralgia of Inorganic Nature, Head Colds and Muscular Aches and Pains. 53,274; July 18.

Dixon Chemical Corporation, New York, N. Y. Dixon's Aspirin. For Aspirin Tablets. 53,275; July 18.

Figola Products Co., Orlando, Fla. Figola. For a Food Beverage. 53,276; July 18.

General Mills, Inc., Minneapolis, Minn. Fyr-Pack. For Rabbit Meat. 53,277; July 18.

Globe Novelty House, New York, N. Y. London Bow Tie. For Bow Ties. 53,278; July 18.

Grunow, Alfred W., doing business as Private Blends Tobacco Company, Belleville, N. J. Eversweet. For a Mixture of Smoking Tobacco. 53,279; July 18.

Heller, B., & Company, Chicago, Ill. Chilk Chocolate Flavor Drink. For a Chocolate Flavor Drink. 53,280; July 18.

Hermetic Corporation, The, Indianapolis, Ind. The Method Designed for Perfect Styling. For Machineless Permanent Waving Supplies. 53,281; July 18.

Home Service Beverage Co., Glendale, Calif. Stein Beer. For Beer. 53,282; July 18.

Kalon Mfg. Co. (Not Inc.), The, Chicago, Ill. Kalon. For a Concentrated Silk Cleaner. 53,287; July 18.

Keep Klean Cover Co., Inc., St. Louis, Mo. Keep Klean Covers. For Automobile Seat Covers. 53,288; July 18.

Lance, Louis, doing business as Washington Asphalt Products, Chicago, Ill. Asbestos Fibre Roof Cement. For an Asbestos Fibre Liquid Roof Cement. 53,289; July 18.

Master Brands of America. (See Baron, Saul J.)

Mead Johnson & Company, Evansville, Ind. Mead's Halibut Liver Oil. For Halibut Liver Oil. 53,283; July 18.

Mead Johnson & Company, Evansville, Ind. Mead's Cod Liver Oil Fortified with Percomorph Liver Oil. For Cod Liver Oil Fortified with Percomorph Liver Oil. 53,284; July 18.

Mead Johnson & Company, Evansville, Ind. Mead's Cereal Enriched with Mineral and Vitamin Containing Foods. For a Palatable Mixed Cereal Food, Vitamin and Mineral Enriched Composed of Wheatmeal (Farina), Oatmeal, Yellow Cornmeal, Wheat Embryo, Powdered Beef Bone Specially Prepared for Human Use, Dried Yeast, Powdered Dehydrated Alfalfa Leaf, and Iron Salt. 53,285–6; July 18.

Monarch Brewing Company, Chicago, Ill. Encore. For Beer. 53,290; July 18.

National Retailer-Owned Grocers, Inc., Chicago, Ill. Dawn Fresh. For Frosted Sliced Strawberries in Sugar Syrup. 53,291; July 18.

Open Steel Flooring Institute, Inc., Pittsburgh, Pa. Open Steel Flooring Institute, Inc., Official Insignia. For Open Steel Flooring. 53,292; July 18.

Pasquale, Michael, Boston, Mass. Brunswick. For Whiskey. 53,293; July 18.

Pellegrini Bros. Winery, San Francisco, Calif. Pellegrini. For Wines. 53,294; July 18.

Pharma-Craft Corporation, The, Louisville, Ky. Fresh No. 2. For Deodorant Cream. 53,296–7; July 18.

Private Blends Tobacco Company. (See Grunow, Alfred W.)

Reeve's Glov-Glaz Company, North Olmsted and Cleveland, Ohio. Reeve's Glov-Glaz. For a Paste-Like Compound. 53,298; July 18.

Sterling Tobacco Powder Company. (See Stoll, Edw. F.)

Stoll, Edw. F., doing business as Sterling Tobacco Powder Company, Louisville, Ky. Blue Grass Tobacco Powder. For Tobacco Powder. 53,299; July 18.

Stoll, Edw. F., doing business as Sterling Tobacco Powder Company, Louisville, Ky. Baby Chick Tobacco Powder. For Tobacco Powder. 53,300; July 18.

Stoll, Edw. F., doing business as Sterling Tobacco Powder Company, Louisville, Ky. Insectobac. For a Tobacco Product Used as an Insecticide and a Plant Food. 53,301; July 18.

Tonol Company, Incorporated, The, Los Angeles, Calif. Tonol. For an Internal Tonic Medicine. 53,302; July 18.

Underwood Elliott Fisher Company, New York, N. Y. Tuchtype Keyboard. For Specially Shaped Guide Keys for Typewriters. 53,303; July 18.

Washington Asphalt Products. (See Lance, Louis.)

X-Pando Corporation, Long Island City, N. Y. X-Pandotite, an Expanding Cement for General Household Repairs. For an Expanding Cement for General Household Repairs. 53,304; July 18.

LIST OF REGISTRANTS OF PRINTS

Apex Oil Products Company. (See Hornibrook, Howard G.)

Blatz Brewing Company, Milwaukee, Wis. For Those Who Want the Best. For Beer. 17,493; July 18.

Briggs, C. A., Company, Cambridge, Mass. Eat-A-Pop. For Lollypops and Lollypop Display Stands. 17,494; July 18.

Brown-Forman Distillery Company, Louisville, Ky. Early Times. For Kentucky Straight Bourbon Whisky. 17,495; July 18.

Hall, Horace W., Newton Highlands, Mass. The Racket That Makes the Star. For Tennis Rackets. 17,496; July 18.

Hills Bros. Coffee, Inc., San Francisco, Calif. Hills Bros. Blue Can Brand Coffee—Here's Aroma Flavor Strength—Adform 1011. For Coffee. 17,497; July 18.

Hills Bros. Coffee, Inc., San Francisco, Calif. It's Iced Coffee Time—Hills Bros. Coffee—Adform 1009. For Coffee. 17,498; July 18.

Hoelzer, C. Fritz, Bloomfield, N. J. First Aid After and Before. For Oil Paintings. 17,499; July 18.

Hornibrook, Howard G., doing business as Apex Oil Products Company, Minneapolis, Minn. Flim-X Motor Oil. For Motor Oil. 17,500; July 18.

Monge, P. R., Rockaway Beach, N. Y. Rum. For Puerto Rican Rum. 17,501; July 18.

Reynolds, R. J., Tobacco Company, Winston-Salem, N. C. Camel E–27. For Cigarettes. 17,502; July 18.

Rouse, Grady D., Dallas, Tex. Tex-O-Lene Chief, Chief of Them All. For Gasoline. 17,503; July 18.

Shulton, Inc., New York, N. Y. Early American Old Spice Talcum. For Talcum. 17,504; July 18.

Singer Manufacturing Company, The, Elizabeth, N. J., and New York, N. Y. The Singer Tuck-Away Portable Sewing Room. For Sewing Machines, Electric Irons and Accessories Therefor. 17,505; July 18.

Transparent Package Company, Chicago, Ill. Baked Canadian Style Bacon for Dinner. For Canadian Style Bacon Enclosed in Transparent Casings. 17,506; July 18.

Transparent Package Company, Chicago, Ill. Baked Ham Dinner Today. For Ham. 17,507; July 18.

Transparent Package Company, Chicago, Ill. "Cottage Butts" for Dinner Today. For Cottage Butts Wrapped in Transparent Containers. 17,508; July 18.

Transparent Package Company, Chicago, Ill. Dinner Today. For Pork Loin Roasts. 17,509; July 18.

Transparent Package Company, Chicago, Ill. For Dinner Today. For Bologna. 17,510; July 18.

Transparent Package Company, Chicago, Ill. For Dinner Today Liver Sausage Broiled with Mushroom and Eggs. For Liver Sausage Enclosed in Transparent Containers. 17,511; July 18.

Transparent Package Company, Chicago, Ill. For Dinner Today—"Magic" With Boiled Ham. For Boiled Ham Loaves. 17,512; July 18.

Transparent Package Company, Chicago, Ill. Ham Slices With Barbecue Sauce. For Boneless Smaked Ham in Containers. 17,513; July 18.

Transparent Package Company, Chicago, Ill. Roast Leg O' Lamb for Dinner Today. For Lamb. 17,514; July 18.

Transparent Package Company, Chicago, Ill. Sausage and Hominy Dinner. For Fresh Pork Sausage Wrapped in Transparent Casings. 17,515; July 18.

Transparent Package Company, Chicago, Ill. Veal Roast Dinner Today. For Veal. 17,516; July 18.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Pruden Coal & Coke Company. 369,175; July 18; Serial No. 414,575; published May 9, 1939.

Coal, Anthracite. Susquehanna Collieries Company. 369,106; July 18; Serial No. 398,266; published May 9, 1939.

Leather. Denver Leather Co. 369,280; July 18; Serial No. 416,644; published May 9, 1939.

Leather. Gomshall Tanneries Limited. 369,216; July 18; Serial No. 415,591; published May 9, 1939.

Leather. Gutman Bros. 369,245; July 18; Serial No. 416,187; published May 9, 1939.

CLASS 2

Bags and merchandise envelopes. Dobeckmun Company. 369,141; July 18; Serial No. 412,332; published Apr. 25, 1939.

Cans, Metal. Crown Can Company. 369,279; July 18; Serial No. 416,643; published May 9, 1939.

Container, Insulated. Eaton Manufacturing Company. 369,200; July 18; Serial No. 415,329; published Apr. 25, 1939.

Dispensers, Perfume. Emfo Corporation. 369,240; July 18; Serial No. 416,095; published Apr. 25, 1939.

Tanks and bins, steel barrels, etc., Sheet metal. Columbian Steel Tank Company. 369,121; July 18; Serial No. 405,383; published Apr. 25, 1939.

CLASS 3

Cases, Portable. National Brief Case Mfg. Co. 369,198; July 18; Serial No. 415,256; published Apr. 25, 1939.

CLASS 4

Cleaning agent, Liquid. I. C. Bazan. 369,218; July 18; Serial No. 415,626; published May 9, 1939.

Compound for removing cosmetics from fabrics. Patek & Co. 369,126; July 18; Serial No. 406,937; published Aug. 2, 1938.

Detergents and dry cleaning preparations, Laundry. C. M. Cobb. 369,331; July 18; Serial No. 416,840; published May 9, 1939.

Dressing, Belt. T. Noton. 369,147; July 18; Serial No. 412,826; published May 9, 1939.

Polish, Metal. Union Oil Company of California. 369,266; July 18; Serial No. 416,490; published May 9, 1939.

Saponaceous material. B & L Laboratories, Inc. 369,356; July 18.

Shaving cream. Colgate-Palmolive-Peet Company. 369,332–3; July 18; Serial Nos. 416,841–2; published May 9, 1939.

Soaps, Toilet. John J. Tracey Company. 369,350; July 18; Serial No. 417,036; published May 9, 1939.

Sweeping compound, metal polish, toilet soap, etc. Industrial Soap Co. 369,225; July 18; Serial No. 415,779; published May 9, 1939.

CLASS 5

Glues. I. F. Laucks, Inc. 369,247; July 18; Serial No. 416,193; published Apr. 25, 1939.

CLASS 6

Acid, acetone; alcohol, etc., Acetic. Wishnick-Tumpeer, Inc. 369,151; July 18; Serial No. 413,260; published May 2, 1939.

Antiseptic preparations. C. W. Partee. 369,208; July 18; Serial No. 415,485; published May 2, 1939.

Antiseptic solution. Burdick Laboratories. 369,143; July 18; Serial No. 412,494; published Apr. 25, 1939.

Astringent, acne lotion, cold cream, etc., Triple strength. Doraldina Cosmetics, Inc. 369,220; July 18; Serial No. 415,639; published May 2, 1939.

Calcium carbide. National Carbide Corporation. 369,120; July 18; Serial No. 404,226; published Apr. 25, 1939.

Chemical compounds. American Flame Proofing Corporation. 369,215; July 18; Serial No. 415,573; published May 2, 1939.

Chemical mud-thinner. Milwhite Company. 369,318; July 18; Serial No. 417,179; published May 9, 1939.

Chemicals, Organic. Eastman Kodak Company. 369,281; July 18; Serial No. 416,646; published May 9, 1939.

Colors, Leather pigment finishing. Society of Chemical Industry in Basle. 369,299; July 18; Serial No. 416,779; published May 9, 1939.

Composition for rust and scale prevention and removal, and water softening, Water and brine. Organite Company. 369,133; July 18; Serial No. 410,337; published Apr. 25, 1939.

Compound used in finishing of textile fabrics, also for use as a type of finish for textile fabrics, etc. J. Bendix. 369,276; July 18; Serial No. 416,625; published May 9, 1939.

Cosmetics and hair tonic. Supreme Olive Oil Corporation. 369,282; July 18; Serial No. 416,662; published May 9, 1939.

Cough syrup. Burtnett Drug Company. 369,267; July 18; Serial No. 416,503; published May 9, 1939.

Cream, Tissue. C. James. 369,189; July 18; Serial No. 414,954; published May 2, 1939.

Creams, Toilet. Leigh Chemist, Inc. 369,201; July 18; Serial No. 415,341; published May 9, 1939.

Device impregnated with lotion to be applied to the eyes. K. Comerford. 369,256; July 18; Serial No. 416,401; published Apr. 25, 1939.

Disinfectants, germicides, ammonia, etc. Salem Chemical & Supply Co. 369,202; July 18; Serial No. 415,354; published Apr. 25, 1939.

Fire-extinguishing compounds. Foamite Firefoam Company. 127,741; renewed Dec. 2, 1939.

Formula for reconditioning the hair. Selma Products Co. 369,362; July 18.

Gas for cutting and welding purposes. Gas-It Corporation. 369,210; July 18; Serial No. 415,505; published May 2, 1939.

Hair-growing preparations. D. Franklin. 127,832; renewed Dec. 9, 1939.

Hormone preparation, Female sex. Society of Chemical Industry in Basle. 369,297–8; July 18; Serial Nos. 416,777–8; published May 9, 1939.

Insecticide. M. B. Ehart. 369,355; July 18.

Laxative salt and pills. Carter Products, Inc. 369,321; July 18; Serial No. 417,260; published May 9, 1939.

Laxative tablets. Anton Sales Company. 369,217; July 18; Serial No. 415,622; published May 9, 1939.

Laxative tablets. S. G. Stanley. 369,348; July 18; Serial No. 417,032; published May 9, 1939.

Liniment. N. G. Ballard. 369,197; July 18; Serial No. 415,239; published May 2, 1939.

Liniment and herb compound. M. E. Ragan. 369,295; July 18; Serial No. 416,744; published May 9, 1939.

Lipstick. Lip Aid Laboratory. 369,372; July 18.

Lipstick, rouge, face powder, etc. Associated Distributors, Inc. 369,206–7; July 18; Serial Nos. 415,467–8; published May 2, 1939.

Liquid preparations. McCoy's Products, Inc. 369,336; July 18; Serial No. 416,909; published May 9, 1939.

Lotion, eau de cologne, and scalp stimulant, After shave. Lentheric, Incorporated. 369,314; July 18; Serial No. 417,092; published May 9, 1939.

Lotion, Skin. Transpec Company. 369,144; July 18; Serial No. 412,565; published Apr. 25, 1939.

Lye. E. Myers Lye Company. 127,644; renewed Nov. 18, 1939.

Magnesium preparation. Laboratoires Romon Société à Responsabilité Limitée. 369,191; July 18; Serial No. 415,042; published May 2, 1939.

Manicure preparation. M. V. C. Laboratories, Inc. 369,361; July 18.

Masks, Solution saturated eye. Clark-Millner Co. 369,335; July 18; Serial No. 416,890; published May 9, 1939.

Medicament. Wood Ridge Manufacturing Co. 369,179; July 18; Serial No. 414,673; published Apr. 25, 1939.

Medicated composition. Iodent Chemical Company. 369,317; July 18; Serial No. 417,154; published May 9, 1939.

Medicinal agent. Smith, Kline & French Laboratories. 369,170; July 18; Serial No. 414,374; published Apr. 25, 1939.

Medicinal cigarettes. John K. Brater & Co. 369,252; July 18; Serial No. 416,366; published Apr. 25, 1939.

Medicinal headache tablet. United-Americas Distributors. 369,354; July 18.

Medicinal oil. W. B. Seymour. 369,374; July 18.

Medicinal preparation. Sapewa Pharmazeutische Präparte Ernst F. P. Wesche. 369,105; July 18; Serial No. 396,614; published Feb. 8, 1938.

Medicinal preparation. Schering Corporation. 369,275; July 18; Serial No. 416,619; published May 9, 1939.

Medicinal preparations, Liquid. J. S. Tyree, Chemist, Inc. 369,312; July 18; Serial No. 417,067; published May 9, 1939.

Medicine, Poultry. Kewanee Liquids Manufacturing Co. 369,193; July 18; Serial No. 415,125; published May 2, 1939.

Mouth wash. Peroxide Chemical Co. 369,251; July 18; Serial No. 416,335; published Apr. 25, 1939.

Nail polish. Peggy Sage, Inc. 369,288–9; July 18; Serial Nos. 416,702–3; published Apr. 25, 1939.

Nail polish. Peggy Sage, Inc. 369,329; July 18; Serial No. 417,714; published May 9, 1939.

Nail polish, nail enamel, cuticle oil, etc. Castilian Products Corp. 369,219; July 18; Serial No. 415,634; published May 9, 1939.

Oil and oil of peppermint for medicinal purposes, Olive. Orbis Products Corporation. 369,254; July 18; Serial No. 416,382; published Apr. 25, 1939.

Oils, finishing oils, dyeing oils, etc., Sulphonated. Morton Chemical Company. 369,230; July 18; Serial No. 415,849; published May 9, 1939.

Ointment. R. W. Sheffield. 369,187; July 18; Serial No. 414,898; published May 2, 1939.

Ointment, Penetrating. J. A. Reyes. 369,146; July 18; Serial No. 412,667; published Apr. 4, 1939.
Ointment, Pile. T. E. Connor. 127,013; renewed Oct. 21, 1939.
Organic specialties, Series of. Morton Chemical Company. 369,231; July 18; Serial No. 415,850; published May 9, 1939.
Organic wetting and penetrating agents, Series of. Morton Chemical Company. 369,232; July 18; Serial No. 415,851; published May 9, 1939.
Perfume. M. Levy. 369,346; July 18; Serial No. 417,021; published May 2, 1939.
Perfume. M. Levy. 369,347; July 18; Serial No. 417,022; published May 9, 1939.
Perfume. S. G. Stanley. 369,349; July 18; Serial No. 417,035; published May 2, 1939.
Perfume, rouge, perfumed bath salts, etc. Erwyn Products Inc. 369,131; July 18; Serial No. 409,993; published May 9, 1939.
Perfumes. Lentheric, Incorporated. 369,315; July 18; Serial No. 417,093; published May 9, 1939.
Perfumes, toilet water, eau de cologne, etc. Societe Anonyme les Parfumerie de Gabilla. 369,366; July 18.
Perfumes, toilet waters, rouge, etc. S. Perichon. 369,328; July 18; Serial No. 417,414; published May 9, 1939.
Perfumery, toilet water, and astringent. Dorland International, Incorporated. 369,296; July 18; Serial No. 416,764; published May 9, 1939.
Pharmaceutical preparations. S. Stevens. 127,205; renewed Oct. 21, 1939.
Phenols, Mixture of. Glidden Company. 369,168; July 18; Serial No. 414,344; published May 9, 1939.
Photographic preparations and chemicals. Fink-Roselleve Co. 369,309; July 18; Serial No. 417,053; published Apr. 25, 1939.
Powder, lipstick, rouge, etc., Face. Helena Rubinstein, Inc. 369,183; July 18; Serial No. 414,799; published May 2, 1939.
Powder, toilet water, etc., Face and dusting. A. Morel. 369,286–7; July 18; Serial Nos. 416,695–6; published Apr. 25, 1939.
Powder used in the treatment of athlete's foot or eczema of the feet or skin. H. G. Cress. 369,188; July 18; Serial No. 414,914; published Apr. 25, 1939.
Preparation for restoring the color of gray hair, Liquid. No-Gra Laboratories, Inc. 369,380; July 18.
Preparation for the treatment of infections of the skin, Topical. J. S. Rakestraw. 369,359; July 18.
Preparation for worming poultry. R. B. Griffin. 369,365; July 18.
Preparations used in finishing papers and textiles, and laundry starch. Penick & Ford, Ltd. Incorporated. 369,371; July 18.
Preservatives for feeds for live stock. Cooperative G. L. F. Soil Building Service, Inc. 369,192; July 18; Serial No. 415,074; published May 9, 1939.
Salve. C. N. Roberts. 369,212; July 18; Serial No. 415,523; published May 2, 1939.
Shampoo, and hair oil, Dandruff remover. P. Tunder, Jr. 369,367; July 18.
Shampoo, and preparation for dandruff, Hair. C. F. Poncy. 369,149; July 18; Serial No. 413,241; published May 2, 1939.
Sizing or finishing agents. Stein, Hall & Company. 369,334; July 18; Serial No. 416,877; published Apr. 25, 1939.
Soda ash, Modified. J. B. Ford Company. 369,109; July 18; Serial No. 402,121; published May 2, 1939.
Solution for use in removing adhesive tape, corn plasters, etc., and ointment. Tap-Sol Company. 369,213; July 18; Serial No. 415,528; published May 2, 1939.
Solvent preparations. Hickok Oil Corpration. 369,166; July 18; Serial No. 414,263; published Apr. 25, 1939.
Souring agents. Ecclestone Chemical Company. 369,164–5; July 18; Serial Nos. 414,259–60; published Apr. 25, 1939.
Spermicidal substances, Cream-like. Whittaker Laboratories, Inc. 369,115; July 18; Serial No. 403,623; published May 2, 1939.
Tanning agents and textile assistants. Society of Chemical Industry in Basle. 369,113; July 18; Serial No. 403,477; published May 9, 1939.
Tanning agents and textile ass'stants. Society of Chemical Industry in Basle. 369,114; July 18; Serial No. 403,479; published May 9, 1939.
Therapeutic food supplement for dogs. Polk Miller Products Corporation. 369,186; July 18; Serial No. 414,890; published May 2, 1939.
Toilet water, eau de cologne, suntan oil, etc. M. Leduc. 369,157; July 18; Serial No. 413,835; published May 9, 1939.
Toilet water, face powder, perfume, etc. Saravel, Inc. 369,338–40; July 18; Serial Nos. 416,918–20; published May 9, 1939.
Tooth powder. Pycope Incorporated. 369,172; July 18; Serial No. 414,507; published Apr. 25, 1939.
Vanity cases. Hingeco Vanities, Inc. 369,169; July 18; Serial No. 414,351; published May 2, 1939.
Vitamin B complex malt syrup. Borcherdt Malt Extract Co. 369,320; July 18; Serial No. 417,200; published May 9, 1939.
Vitamin B complex preparation. Winthrop Chemical Company. 369,327; July 18; Serial No. 417,353; published May 9, 1939.
Vitamin mineral supplement for dogs and cats. F. M. Sheldon. 369,237; July 18; Serial No. 416,001; published May 9, 1939.
Water softener. Sager Specialties, Inc. 369,352; July 18.

CLASS 8

Cigarette cases. Rex Products Corporation. 369,262; July 18; Serial No. 416,479; published May 9, 1939.
Pipes. London House, Ltd. 369,342; July 18; Serial No. 416,961; published May 9, 1939.

CLASS 10

Fertilizer material, Soil. W. K. Woods. 369,283; July 18; Serial No. 416,669; published May 2, 1939.
Plant growing compounds. Radix Sociedad de Respondsabilidad, Limitada. 369,139; July 18; Serial No. 412,152; published Apr. 25, 1939.

CLASS 12

Adhesives and cements, and luting materials, Bituminous. Vereinigte Deutsche Metallwerke Aktiengesellschaft. 369,158; July 18; Serial No. 413,847; published May 9, 1939.
Carbon and graphite products. National Carbon Company. 369,343; July 18; Serial No. 416,965; published May 9, 1939.
Cement, stucco, and a plastic cement, Masonry. Pine Hill Lime & Stone Company. 369,127; July 18; Serial No. 408,205; published May 9, 1939.
Insulating material, Thermal. United States Mineral Wool Company. 369,358; July 18.
Joists and wire mesh, Steel. Laclede Steel Company. 369,110; July 18; Serial No. 402,427; published May 9, 1939.
Preparation for adding to cement, plaster, etc. Kaspar Winkler & Co. 369,111; July 18; Serial No. 402,883; published Oct. 11, 1938.
Preparations for adding to cement, plasters, etc. Kaspar Winkler & Co. 369,124; July 18; Serial No. 405,865; published Oct. 11, 1938.
Slate, Structural. Structural Slate Company. 127,993; renewed Dec. 16, 1939.

CLASS 13

Coffee makers. Coffelator Co. 369,174; July 18; Serial No. 414,555; published May 9, 1939.
Plugs, boiler nipples, brushings, etc., Bull. J. C. Bradshaw. 369,203; July 18; Serial No. 415,374; published May 9, 1939.
Water softening apparatus. Refinite Corporation. 369,163; July 18; Serial No. 414,238; published May 9, 1939.

CLASS 15

Gasoline. Staten Island Home Utilities, Inc. 369,129; July 18; Serial No. 409,113; published Apr. 25, 1939.
Gasoline, motor oils, and automobile greases. United Refining Co. 369,123; July 18; Serial No. 405,707; published May 9, 1939.
Gasoline, oil and greases. Hamman Exploration Company. 369,236; July 18; Serial No. 415,948; published Apr. 25, 1939.
Oil, Lubricating. Standard Oil Company of California. 369,156; July 18; Serial No. 413,802; published May 2, 1939.

CLASS 16

Finish, Varnish-like. Radiant Finish Company. 369,194; July 18; Serial No. 415,186; published May 9, 1939.
Paints, varnishes and paint enamels. Ault & Wiborg Corporation. 369,255; July 18; Serial No. 416,397; published May 9, 1939.
Waxes, and self-polishing wax, Polishing. Union Oil Company of California. 369,265; July 18; Serial No. 416,489; published May 9, 1939.

CLASS 17

Cigars. A. Siegel & Sons Inc. 369,376; July 18.
Cigarettes. American Tobacco Co. 126,238; renewed Aug. 19, 1939.
Cigarettes. Riggio Tobacco Corporation. 369,300; July 18; Serial No. 416,787; published May 9, 1939.
Tobacco products. Larus & Brother Company. 369,257; July 18; Serial No. 416,427; published May 9, 1939.

CLASS 19

Bicycles. Arnold, Schwinn & Co. 369,284–5; July 18; Serial Nos. 416,673–4; published May 9, 1939.

CLASS 20

Linoleum. Chicago Mall Order Company. 369,250; July 18; Serial No. 416,313; published May 2, 1939.
Linoleum, linoleum tile, cork carpet, etc. Congoleum-Nairn Inc. 369,235; July 18; Serial No. 415,938; published Apr. 25, 1939.

CLASS 21

Cables, wires, and cords; etc., Electric. N. V. Hollandsche Draad-en Kabelfabriek. 369,167; July 18; Serial No. 414,304; published Apr. 25, 1939.

CLASS 22

Bowling balls. N. Day. 369,301; July 19; Serial No. 416,796; published May 9, 1939.
Golf tees. Monsanto Chemical Company. 369,258; July 18; Serial No. 416,433; published May 9, 1939.
Railroad ties for tracks of toy trains, Rubber. Essex Rubber Company. 369,316; July 18; Serial No. 417,121; published May 9, 1939.
Song book and musical toy, Combination. McLoughlin Bros., Inc. 369,159; July 18; Serial No. 413,873; published May 9, 1939.
Table-tennis sets. Universal Table Tennis Corporation. 369,325; July 18; Serial No. 417,313; published May 9, 1939.

CLASS 23

Cutlery, machinery, and tools, and parts thereof. Chain Belt Company. 126,139–40; renewed July 29, 1939.
Machinery and tools, and parts thereof. William Patent Crusher and Pulverizer Company. 124,358; renewed Feb. 4, 1939.
Razors, Safety. A. H. Bryant. 125,971; renewed July 22, 1939.
Shavers, Electric. Ingersoll Shaver Corporation. 369,357; July 18.

CLASS 24

Dry cleaning machinery. L. B. Billingsly. 369,209; July 18; Serial No. 415,494; published May 2, 1939.

CLASS 26

Patterns, Dress. Pictorial Review Company. 127,110; renewed Oct. 21, 1939.
Sunglasses and spectacles. Westchester Optical Company. 369,379; July 18.
Test-indicators, Machinists' and tool-makers'. H. A. Lowe. 127,438; renewed Nov. 11, 1939.

CLASS 27

Clocks and watches. Hermes, S. A. 369,271; July 18; Serial No. 416,559; published May 9, 1939.
Watches. Bulova Watch Company. 369,180; July 18; Serial No. 414,684; published May 9, 1939.
Watches. Helbros Watch Co. Inc. 369,294; July 18; Serial No. 416,730; published May 9, 1939.

CLASS 28

Clasps and snaps and other articles of jewelry, Necklace. H. C. Schick. 369,134; July 18; Serial No. 410,439; published May 9, 1939.
Jewelry, Baby and children's. Juvenile Jewelry Company. 369,246; July 18; Serial No. 416,192; published May 9, 1939.
Rings and finger ring findings, Finger. Streicher Mfg. Company. 369,269; July 18; Serial No. 416,525; published May 9, 1939.

CLASS 29

Powder puffs. Colgate-Palmolive-Peet Company. 369,117; July 18; Serial No. 403,991; published May 9, 1939.

CLASS 31

Refrigerators and refrigerator cabinets. Ed. Friedrich, Inc. 369,310; July 18; Serial No. 417,055; published May 9, 1939.

CLASS 32

Cabinets, Syringe. L. L. Findley. 369,119; July 18; Serial No. 404,197; published May 9, 1939.

CLASS 33

Glass coffee makers and parts thereof. Korwood Incorporated. 369,274; July 18; Serial No. 416,609; published May 9, 1939.

CLASS 34

Dampers for furnaces, heating plants, large commercial heating plants, etc., Draft control. R. W. Francks. 369,130; July 18; Serial No. 409,841; published May 9, 1939.
Fans, Ventilating. Esko Manufacturing Corporation. 369,182; July 18; Serial No. 414,729; published May 9, 1939.
Furnaces, dryers, pickling baths, etc., Industrial. W. A. Darrah. 369,145; July 18; Serial No. 412,595; published May 9, 1939.
Kilns, Dry. Moore Dry Kiln Company of Oregon. 369,128; July 18; Serial No. 408,469; published May 9, 1939.
Lanterns, pilot cigarette lighters, woven wicks, etc., Gasoline. Tru Testing Marketing & Merchandising Corp. 369,161; July 18; Serial No. 414,128; published May 9, 1939.
Tank used in hot water heaters. Bastian-Morley Co. 369,308; July 18; Serial No. 417,049; published May 9, 1939.
Tanks and hot water and steam boilers, Pressure. Farrar & Trefts, Incorporated. 369,108; July 18; Serial No. 399,924; published May 9, 1939.

CLASS 35

Belting, hose, and machinery packing. Doermann-Roehrer Company. 127,921; renewed Dec. 16, 1939.
Belting, Rubber. Goodyear Tire & Rubber Company. 126,686; renewed Sept. 30, 1939.
Hose, Garden. Allied Stores Corporation. 369,330; July 18; Serial No. 417,791; published May 9, 1939.
Packing, Asbestos. Goodyear Tire & Rubber Company. 126,597; renewed Sept. 23, 1939.
Tires. General Tire & Rubber Company. 369,132; July 18; Serial No. 410,107; published May 9, 1939.
Tires and tubes. Globe Oil & Refining Company. 369,184–5; July 18; Serial Nos. 414,875–6; published May 9, 1939.

CLASS 37

Copyholders. Remington Rand Inc. 369,272; July 18; Serial No. 416,582; published May 9, 1939.
Fasteners. Goldsmith Bros. 369,292; July 18; Serial No. 416,726; published May 9, 1939.
Filter or porous paper. Aldine Paper Company. 369,344; July 18; Serial No. 416,985; published May 9, 1939.
Paper, towels, and napkins, Toilet. Fort Howard Paper Company. 369,291; July 18; Serial No. 416,725; published May 9, 1939.

CLASS 38

Cards, Post. Gemloid Corporation. 369,171; July 18; Serial No. 414,399; published May 9, 1939.
Magazine. R. T. Bramson. 369,140; July 18; Serial No. 412,168; published May 9, 1939.
Publication. Esquire-Coronet, Inc. 369,104; July 18; Serial No. 395,339; published May 9, 1939.
Publication. Harvey & Howe, Inc. 369,160; July 18; Serial No. 414,071; published May 9, 1939.
Publication. Towson Nurseries, Inc. 369,214; July 18; Serial No. 415,529; published May 9, 1939.
Publication, Life-insurance. A. J. Hill. 127,949; renewed Dec. 16, 1939.
Scripts for a series of commercial radio broadcasts. Colgate-Palmolive-Peet Company. 369,228; July 18; Serial No. 415,836; published May 9, 1939.

CLASS 39

Apparel, Wearing. Gale-Rosenbaum Company. 369,173; July 18; Serial No. 414,524; published Apr. 25, 1939.
Bathing trunks and suits. David D. Doniger & Co. 369,242; July 18; Serial No. 416,137; published Apr. 25, 1939.
Blouses, dresses, and suits. Kuttner-De Costa & Co. 369,162; July 18; Serial No. 414,154; published Apr. 25, 1939.
Chemises, princess slips, step-ins, etc. I. Schneierson & Sons, Inc. 369,226; July 18; Serial No. 415,798; published Apr. 25, 1939.
Cloaks, coats, and suits, Ladies'. Style Garment Company Inc. 369,150; July 18; Serial No. 413,249; published Apr. 25, 1939.
Clothing, Men's and boys'. Baker Clothes Inc. 369,195; July 18; Serial No. 415,199; published May 2, 1939.
Coats and suits. A. Sagner & Sons, Inc. 369,222; July 18; Serial No. 415,668; published Apr. 25, 1939.
Coats and suits. Whelikin Coat Co. Inc. 369,248; July 18; Serial No. 416,220; published Apr. 25, 1939.
Coats and sweaters. A. W. Duff. 369,244; July 18; Serial No. 416,182; published May 2, 1939.
Coats of camel hair, Women's. S. Stroock & Co. 369,190; July 18; Serial No. 414,969; published Apr. 25, 1939.
Dresses. Goldwaters Mercantile Co. 369,154; July 18; Serial No. 413,631; published Apr. 25, 1939.
Dresses. Alexander S. Gross, Inc. 369,378; July 18.
Dresses. Warshauer & Franck, Inc. 369,370; July 18.
Dresses, jackets, blouses, etc. Anathan-Walton, Inc. 369,377; July 18.
Dresses, play suits, and slacks. Sears, Roebuck and Co. 369,263; July 18; Serial No. 416,482; published Apr. 25, 1939.
Garments and lounging robes, Sleeping. Night Comfort, Inc. 369,360; July 18.
Hosiery. Huffman Full Fashioned Mills, Inc. 369,238; July 18; Serial No. 416,012; published May 2, 1939.
Hosiery. Propper-McCallum Hosiery Co. Inc. 369,368; July 18.
Overalls for women. Minneapolis Knitting Works. 369,178; July 18; Serial No. 414,635; published May 2, 1939.
Pajamas. Kaylon, Inc. 369,268; July 18; Serial No. 416,513; published May 2, 1939.
Pajamas, and men's outer shirts, Ladies' and men's. Columbia Shirt Co. 369,223; July 18; Serial No. 415,703; published Apr. 25, 1939.
Pajamas and nightgowns. Katz Underwear Co. 369,253; July 18; Serial No. 416,378; published Apr. 25, 1939.
Shirts. M. Freedman. 369,363; July 18.
Slips, nightgowns, panties, etc. Ralph Corn Underwear, Inc. 369,259; July 18; Serial No. 416,437; published Apr. 25, 1939.
Sportwear, Summer. Cable Raincoat Company. 369,224; July 18; Serial No. 415,762; published May 2, 1939.
Suits, and coats and suit ensembles, Women's and misses'. Philip Shlansky & Bro., Inc. 369,375; July 18.

Suits and overcoats. A. Sagner & Sons, Inc. 369,364; July 18.
Trousers, knickers, lumber jackets, etc. Dunrite Trouser Company. 369,148; July 18; Serial No. 412,888; published Apr. 25, 1939.
Underwear. Vanity Fair Silk Mills. 369,227; July 18; Serial No. 415,810; published Apr. 25, 1939.
Underwear, Knitted. Campe Corporation. 127,266; renewed Nov. 4, 1939.
Underwear, Knitted. Campe Corporation. 127,346; renewed Nov. 11, 1939.
Underwear, Linen-mesh. Ideal Linen Mesh Company. 126,021; renewed July 22, 1939.
Underwear, pajamas, nightgowns, etc., Ladies' rayon. Dutchess Underwear Corporation. 369,181; July 18; Serial No. 414,728; published Apr. 25, 1939.
Uniforms, Nurses'. Lansburgh & Bro. 369,241; July 18; Serial No. 416,104; published Apr. 25, 1939.

CLASS 42

Cotton piece goods. Arthur Kahn Co. 369,341; July 18; Serial No. 416,957; published May 9, 1939.
Cotton, rayon, acetate, and/or piece goods. Cohn-Hall-Marx Co. 369,243; July 18; Serial No. 416,178; published May 9, 1939.
Fabrics in the piece. Lorraine Manufacturing Company. 369,125; July 18; Serial No. 405,883; published May 9, 1939.
Fabrics in the piece, Silk textile. Shirley Silk Co. 369,264; July 18; Serial No. 416,483; published May 9, 1939.
Fabrics, Pile. Behr-Manning Corporation. 369,305–7; July 18; Serial Nos. 416,832–4; published May 9, 1939.
Goods, Piece. Mouakad Bros. Inc. 369,239; July 18; Serial No. 416,071; published May 9, 1939.
Piece goods. Goodall Worsted Company. 369,313; July 18; Serial No. 417,089; published May 9, 1939.
Piece goods. E. M. Knox. 369,369; July 18.
Piece goods. Rice-Stix Dry Goods Company. 125,838; renewed June 17, 1939.
Piece goods. William Skinner & Sons. 369,112; July 18; Serial No. 403,019; published May 9, 1939.
Piece goods and blankets, Cotton. Nashua Mfg. Co. 127,973; renewed Dec. 16, 1939.
Rayon and acetate piece goods. Arthur S. Heiman, Inc. 369,138; July 18; Serial No. 411,455; published May 9, 1939.
Silk piece goods. Empire Silk Company. 125,804; renewed June 17, 1939.
Towels, waffle mats, hit and miss rugs, etc., Linen. National Industries for the Blind. 369,302; July 18; Serial No. 416,812; published May 9, 1939.

CLASS 44

Medical applicators. Radium Chemical Company. 369,351; July 18.

CLASS 45

Beverages and compound concentrates, and sirups for the manufacture thereof. Orange-Crush Company. 369,261; July 18; Serial No. 416,475; published May 9, 1939.
Beverages, and syrups and extracts for making the same. Boone Rock Bottling Company. 369,260; July 18; Serial No. 416,452; published May 9, 1939.
Beverages, and syrups and extracts for making the same. Schuessler, Hamilton Company. 369,324; July 18; Serial No. 417,304; published May 9, 1939.
Canned citrus juices. Harlingen Canning Co. 369,293; July 18; Serial No. 416,728; published May 9, 1939.
Concentrate and syrup for making beverages. Lane & Campbell. 369,211; July 18; Serial No. 415,516; published May 9, 1939.
Juices and concentrates, Fruit. M. Harrison. 369,155; July 18; Serial No. 413,708; published May 9, 1939.

CLASS 46

Baking powder, candy, fruits, etc. Grand Union Company. 369,137; July 18; Serial No. 411,375; published May 9, 1939.
Bread. Fink Baking Corporation. 369,205; July 18; Serial No. 415,448; published May 9, 1939.
Butter, cheese, milk, etc. Hickory Dairy Co. 369,135; July 18; Serial No. 410,467; published May 9, 1939.
Cakes. Ward Baking Company. 127,699; renewed Nov. 18, 1939.
Candy. Nunnally Company. 369,233; July 18; Serial No. 415,859; published May 9, 1939.
Canned fish, fruits, vegetables, etc. L. Cohen Grocer Company. 369,107; July 18; Serial No. 398,391; published Feb. 7, 1939.
Canned mushrooms. Highland Sales Company. 369,199; July 18; Serial No. 415,290; published May 9, 1939.
Canned prepared salad. Green Bay Food Company. 369,322; July 18; Serial No. 417,279; published May 9, 1939.
Canned tomatoes. G. Rossano & Bro. Inc. 369,176; July 18; Serial No. 414,577; published May 9, 1939.
Canned tomatoes. Safeway Stores, Inc. 369,221; July 18; Serial No. 415,667; published May 9, 1939.
Cheese. C. U. F. K. Hansen. 369,311; July 18; Serial No. 417,058; published May 9, 1939.
Chile-con-carne. Sarah E. Clark Co. 369,249; July 18; Serial No. 416,283; published May 9, 1939.
Coffee. Albert Ehlers, Inc. 369,234; July 18; Serial No. 415,880; published May 9, 1939.
Coffee, spices, and food-flavoring extracts. H. P. Coffee Company. 127,726; renewed Dec. 2, 1939.
Confection, Frozen. Popowitz and Neuman. 369,353; July 18.
Corn chips. Frito Company. 369,204; July 18; Serial No. 415,385; published May 9, 1939.
Flour, Wheat. Fisher Flouring Mills Co. 127,610; renewed Nov. 18, 1939.
Foods. H. T. Lange Company. 127,759; renewed Dec. 2, 1939.
Fruit and vegetable juices. Central California Producers. 369,122; July 18; Serial No. 405,437; published May 9, 1939.
Fruit, Fresh citrus. Magnolia Citrus Association. 369,323; July 18; Serial No. 417,287; published May 9, 1939.
Fruits, Fresh Citrus. C. Everhard. 369,196; July 18; Serial No. 415,214; published Apr. 25, 1939.
Ice cream, ices, sherbets, etc. R. Stover. 369,136; July 18; Serial No. 410,561; published May 9, 1939.
Meats and meat products. Well Packing Company. 369,373; July 18.
Oleomargarine. Shedd Products Company. 369,303; July 18; Serial No. 416,818; published May 9, 1939.
Salad oil. Clinton Company. 369,270; July 18; Serial No. 416,539; published May 9, 1939.
Sandwiches, Peanut butter. Frito Company. 369,229; July 18; Serial No. 415,842; published May 9, 1939.
Sugar, Granulated. Sociedad Agricola Paramonga. 369,278; July 18; Serial No. 416,629; published May 9, 1939.
Sugar, Granulated. Sociedad Agricola Paramonga. 369,277; July 18; Serial No. 416,626; published May 9, 1939.
Syrup, Table. Nulomoline Company. 127,859; renewed Dec. 9, 1939.
Vegetables, Fresh. Alexander Marketing Company. 369,290; July 18; Serial No. 416,715; published May 9, 1939.
Wheat, Basic food product made from. A. A. Kaehler. 369,326; July 18; Serial No. 417,336; published May 9, 1939.

CLASS 47

Wines. Italian Swiss Colony. 369,345; July 18; Serial No. 417,013; published May 9, 1939.

CLASS 48

Beer. Mathie-Ruder Brewing Company. 369,142; July 18; Serial No. 412,350; published May 9, 1939.
Beer. Reno Brewing Company. 369,118; July 18; Serial No. 404,490; published May 9, 1939.
Beer and ale. American Brewing Company. 369,319; July 18; Serial No. 417,196; published May 9, 1939.

CLASS 49

Whisky. Whyte & Mackay, Limited. 369,177; July 18; Serial No. 414,584; published May 9, 1939.

CLASS 50

Bill-boards. Landon P. Smith, Inc. 369,304; July 18; Serial No. 416,819; published May 9, 1939.
Caps, milk bottle. American Seal-Kap Corporation of Delaware. 369,273; July 18; Serial No. 416,595; published May 9, 1939.
Covers for ingot molds. Harbison-Walker Refractories Company. 369,116; July 18; Serial No. 403,686; published May 9, 1939.
Feather trees. R. Kaufman. 369,152; July 18; Serial No. 413,378; published May 9, 1939.
Plastic compositions. Monsanto Chemical Company. 369,153; July 18; Serial No. 413,416; published May 9, 1939.

LIST OF LABELS

Asbestos Fibre Roof Cement. For an Asbestos Fibre Liquid Roof Cement. L. Lance. 53,289; July 18.
Baby Chick Tobacco Powder. For Tobacco Powder. E. F. Stoll. 53,300; July 18.
Beech-Nut Cheese Cocktailettes. For Biscuits. Beech-Nut Packing Company. 53,270; July 18.
Beech-Nut Coffee. For Coffee. Beech-Nut Packing Company. 53,269; July 18.
Blue Grass Tobacco Powder. For Tobacco Powder. E. F. Stoll. 53,299; July 18.
Brā-Clr. For a Syrup Prepared from Extractions of Fruit Juices, Kola-Nut Berries, Caffeine and Other Flavoring Material Colored With Caramel. S. J. Baron. 53,268; July 18.
Brunswick. For Whiskey. M. Pasquale. 53,293; July 18.

Bub's Pilsen Beer. For Beer. Peter Bub Brewery, Inc. 53,295; July 18.
C and H Sugar Pure Cane Brown. For Brown Sugar. California and Hawaiian Sugar Refining Corporation. 53,273; July 18.
Chik Chocolate Flavor Drink. For a Chocolate Flavor Drink. B. Heller & Company. 53,280; July 18.
Dalton Quality Shoes Styled by Jack Young. For Cartons. Bird & Son, Inc. 53,271; July 18.
Dawn Fresh. For Frosted Sliced Strawberries in Sugar Syrup. National Retailer-Owned Grocers, Inc. 53,291; July 18.
Dixon's Aspirin. For Aspirin Tablets. Dixon Chemical Corporation. 53,275; July 18.
Encore. For Beer. Monarch Brewing Company. 53,290; July 18.
Eversweet. For a Mixture of Smoking Tobacco. A. W. Grunow. 53,279; July 18.
Figola. For a Food Beverage. Figola Products Co. 53,276; July 18.
Fresh No. 2. For Deodorant Cream. Pharma-Craft Corporation. 53,296–7; July 18.
Fyr-Pack. For Rabbit Meat. General Mills, Inc. 53,277; July 18.
Heavy Waxed Paper. For Waxed Paper. American Tissue Mills. 53,265; July 18.
Insectobac. For a Tobacco Product Used as an Insecticide and a Plant Food. E. F. Stoll. 53,301; July 18.
Kalon. For a Concentrated Silk Cleaner. Kalon Mfg. Co. (Not Inc.) 53,287; July 18.
Keep Klean Covers. For Automobile Seat Covers. Keep Klean Cover Co. 53,288; July 18.
London Bow Tie. For Bow Ties. Globe Novelty House. 53,278; July 18.
Mead's Cereal Enriched with Mineral and Vitamin Containing Foods. For a Palatable Mixed Cereal Food, Vitamin and Mineral Enriched, Composed of Wheat-meal (Farina), Oatmeal, Yellow Cornmeal, Wheat Embryo, Powdered Beef Bone Specially Prepared for Human Use, Dried Yeast, Powdered Dehydrated Alfalfa Leaf, and Iron Salt. Mead Johnson & Company. 53,285–6; July 18.
Mead's Cod Liver Oil Fortified with Percomorph Liver Oil. For Cod Liver Oil Fortified with Percomorph Liver Oil. Mead Johnson & Company. 53,284; July 18.
Mead's Halibut Liver Oil. For Halibut Liver Oil. Mead Johnson & Company. 53,283; July 18.
Open Steel Flooring Institute, Inc. Official Insignia. For Open Steel Flooring. Open Steel Flooring Institute, Inc. 53,292; July 18.
Pellegrini. For Wines. Pellegrini Bros. Winery. 53,294; July 18.
Prayer Reminder. For an Article For Religious Purposes. Borrowed Timers. 53,272; July 18.
Reeve's Glov-Glaz. For a Paste-Like Compound. Reeve's Glov-Glaz Company. 53,298; July 18.
Sampler. For Candy and Nuts. Awful Fresh MacFarlane. 53,267; July 18.
Stein Beer. For Beer. Home Service Beverage Co. 53,282; July 18.
The Method Designed for Perfect Styling For Machineless Permanent Waving Supplies. Hermetic Corporation. 53,281; July 18.
Tonol. For an Internal Tonic Medicine. Tonol Company. 53,302; July 18.
Tuchtype Keyboard. For Specially Shaped Guide Keys for Typewriters. Underwood Elliott Fisher Company. 53,303; July 18.
Videtto's Hediease. For Powders for the Relief of Pain Arising From Simple Headaches and Neuralgia of Inorganic Nature, Head Colds and Muscular Aches and Pains. Cotton Belt Drug Company. 53,274; July 18.
Waxed Lunch Wraps. For Waxed Paper. American Tissue Mills. 53,266; July 18.
Waxed Refrigerator Paper. For Waxed Paper. American Tissue Mills. 53,264; July 18.
X-Pandotite, an Expanding Cement for General Household Repairs. For an Expanding Cement for General Household Repairs. X-Pando Corporation. 53,304; July 18.

LIST OF PRINTS

Baked Canadian Style Bacon for Dinner. For Canadian Style Bacon Enclosed in Transparent Casings. Transparent Package Company. 17,506; July 18.
Baked Ham Dinner Today. For Ham. Transparent Package Company. 17,507; July 18.
Camel E–27. For Cigarettes. R. J. Reynolds Tobacco Company. 17,502; July 18.
"Cottage Butts" for Dinner Today. For Cottage Butts Wrapped in Transparent Containers. Transparent Package Company. 17,508; July 18.
Dinner Today. For Pork Loin Roasts. Transparent Package Company. 17,509; July 18.
Early American Old Spice Talcum. For Talcum. Shulton, Inc. 17,504; July 18.
Early Times. For Kentucky Straight Bourbon Whisky. Brown-Forman Distillery Company. 17,495; July 18.
Eat-A-Pop. For Lollypops and Lollypop Display Stands. C. A. Briggs Company. 17,494; July 18.
Flim-X Motor Oil. For Motor Oil. H. G. Hornibrook. 17,500; July 18.
For Dinner Today. For Bologna. Transparent Package Company. 17,510; July 18.
For Dinner Today Liver Sausage Broiled with Mushrooms and Eggs. For Liver Sausage Enclosed in Transparent Containers. Transparent Package Company. 17,511; July 18.
For Dinner Today—"Magic" with Boiled Ham. For Boiled Ham Loaves. Transparent Package Company. 17,512; July 18.
First Aid After and Before. For Oil Paintings. C. Fritz Hoelzer. 17,499; July 18.
For Those Who Want the Best. For Beer. Blatz Brewing Company. 17,493; July 18.
Ham Slices with Barbecue Sauce. For Boneless Smoked Ham in Containers. Transparent Package Company. 17,513; July 18.
Hills Bros. Blue Can Brand Coffee—Here's Aroma Flavor Strength—Adform 1011. For Coffee. Hills Bros. Coffee, Inc. 17,497; July 18.
It's Iced Coffee Time—Hills Bros. Coffee—Adform 1009. For Coffee. Hills Bros. Coffee, Inc. 17,498; July 18.
Roast Leg O' Lamb for Dinner Today. For Lamb. Transparent Package Company. 17,514; July 18.
Rum. For Puerto Rican Rum. P. R. Monge. 17,501; July 18.
Sausage and Hominy Dinner. For Fresh Pork Sausage Wrapped in Transparent Casings. Transparent Package Company. 17,515; July 18.
Tex-O-Lene Chief, Chief of Them All. For Gasoline. G. D. Rouse. 17,503; July 18.
The Racket That Makes the Star. For Tennis Rackets. H. W. Hall. 17,496; July 18.
The Singer Tuck-Away Portable Sewing Room. For Sewing Machines, Electric Irons and Accessories Therefor. Singer Manufacturing Company. 17,505; July 18.
Veal Roast Dinner Today. For Veal. Transparent Package Company. 17,516; July 18.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adair, George P., Takoma Park, Md. Radio receiving system. Re. 21,151; July 18.

Fox, Harold C., Waterloo, Iowa. Margin-regulating stop. Re. 21,152; July 18.

Hazeltine Corporation. (See Hazeltine, Louis A., assignor.)

Hazeltine, Louis A., Hoboken, N. J., assignor to Hazeltine Corporation. Frequency conversion system. Re. 21,153; July 18.

Kingsland, George D., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Summer-winter air conditioning system. Re. 21,154; July 18.

Miller, Howard L., Philadelphia, Pa. Control system. Re. 21,155; July 18.

Minneapolis-Honeywell Regulator Company. (See Kingsland, George D.)

Oakley, Henry D., Woodlynne, N. J. Inductor compass. Re. 21,156; July 18.

LIST OF PLANT PATENTEES

Johnston, Walter L., Portadown, Ireland, assignor to Jackson & Perkins Company, Newark, N. Y. Rose plant. 335; July 18.

Jackson & Perkins Company. (See Johnston, Walter L., assignor.)

LIST OF DESIGN PATENTEES

Abels, Wasserberg & Co. (See Goldberg, Harold, assignor.)

American Can Company. (See Worthington, Everett, assignor.)

American Optical Company. (See Snavely, Thomas J., assignor.)

American Optical Company. (See Splaine, Edward M., assignor.)

Anderson, Norwood, New York, N. Y. Pipe camera casing. 115,727; July 18.

Asch, Howard E., New York, N. Y. Portable flashlight. 115,777; July 18.

Bardaville, Nicholas J., Lansing, Mich. Comb holder rack. 115,728; July 18.

Barney, Arthur L., assignor to Tiffany & Company, New York, N. Y. Spoon or analogous article. 115,729; July 18.

Bicks, Jean L., Brooklyn, N. Y., assignor to Carr-Lowrey Glass Company, Baltimore, Md. Bottle. 115,778; July 18.

Boice, William B., Toledo, Ohio. Wood working machine. 115,779; July 18.

Brandes, Arthur, Los Angeles County, and F. W. Jordan, La Habra, Calif. Buffet plate. 115,730; July 18.

Briggs Manufacturing Company. (See Tjaarda, John, assignor.)

California Growers Wineries. (See Cobb, Earl M., assignor.)

Carnes, Herman W., Indianapolis, Ind., assignor to Oxweld Acetylene Company. Regulator. 115,780; July 18.

Carr-Lowrey Glass Company. (See Bicks, Jean L., assignor.)

Chicago Flexible Shaft Company. (See Wright, Horace C., assignor.)

Christensen, O. Neil, Oak Park, assignor to J. B. Whitted, Glencoe, Ill. Cigarette dispenser or the like. 115,781; July 18.

Clean Home Products, Incorporated. (See Keim, Melville, assignor.)

Cobb, Earle M., assignor to California Growers Wineries, Cutler, Calif. Bottle or similar article. 115,782; July 18.

Conant, Roger, New York, N. Y., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Brush back or similar article. 115,783; July 18.

Consolidated Lamp & Glass Company. (See Hawe, William F. M., assignor.)

Crane Co. (See Reinecke, Jean O., assignor.)

Crane Co. (See Reinecke, J. O., Kovarik, and Zinkil, assignors.)

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,731; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,732; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,733; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,734; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,735; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,736; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,737; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,738; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,739; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,740; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,741; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,742; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,743; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,744; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,745; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,746; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,747; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,748; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,749; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,750; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,751; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,752; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,753; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,754; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,755; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,756; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,757; July 18.

Cunningham, Andrew J., Snyder, N. Y. Goblet or similar article. 115,758; July 18.

Davenport, Lloyd J., Kearny, N. J., assignor to P. E. Flato, New York, N. Y. Watch casing or similar article. 115,759; July 18.

De Frehn, Charles. (See O'Brien, George R., assignor.)

Deters, Elmer M., assignor to Red Jacket Manufacturing Company, Davenport, Iowa. Pump. 115,814; July 18.

Dunnock, John L., assignor to Swindell Brothers, Incorporated, Baltimore, Md. Bottle. 115,784; July 18.

English, John A., Trenton, N. J. Eye shield or the like. 115,760; July 18.

Erickson, S. E., Company. (See Erickson, Claus E., assignor.)

Erickson, Claus E., assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa. Display stand or the like. 115,815; July 18.

Exhibit Supply Company, The. (See Meyer, John F., assignor.)

Flato, Paul E. (See Davenport, Lloyd J., assignor.)

Foggett, Ruth S., assignor to The Palmer Brothers Company, New London, Conn. Mattress cover or similar article. 115,806; July 18.

Forster Manufacturing Co., Ltd. (See Forster, Percy M., assignor.)
Forster, Percy M., assignor to Forster Manufacturing Co., Ltd., Berkeley, Calif. Field stove. 115,785; July 18.
Fostoria Glass Company. (See Sakier, George, assignor.)
Fraim, Samuel R., Lancaster, Pa. Lock. 115,761; July 18.
Gillies, William S., Los Angeles, Calif. Font of type. 115,807; July 18.
Goldberg, Harold, assignor to Abels, Wasserberg & Co., Inc., New York, N. Y. Lamp shade or similar article. 115,786; July 18.
Green, Samuel, and H. Miller, New York, N. Y. Brassière. 115,762; July 18.
Grieco, Fred, New York, N. Y. Christmas tree ornament or similar article. 115,787; July 18.
Haggstrom, Arthur C., Rockford, Ill. Cabinet for a radio broadcast receiver or similar article. 115,788; July 18.
Hancock, John A., Sr., Columbia, S. C. Pick-up device for game pieces. 115,789; July 18.
Hawe, William F. M., Crafton, assignor to Consolidated Lamp & Glass Company, Coraopolis, Pa. Light diffusing glass. 115,816; July 18.
Hawe, William F. M., Crafton, assignor to Consolidated Lamp & Glass Company, Coraopolis, Pa. Light diffusing glass. 115,817; July 18.
Heisey, A. H., & Company. (See Heisey, T. Clarence, assignor.)
Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass relish dish or article of similar nature. 115,818; July 18.
Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass goblet or article of similar nature. 115,819; July 18.
Hoch, Frederick R., Norton, assignor to T. J. Holmes Co., Inc., Chartley, Mass. Bottle. 115,790; July 18.
Hoch, Frederick R., Norton, assignor to T. J. Holmes Co., Inc., Chartley, Mass. Bottle. 115,791; July 18.
Hoch, Frederick R., Norton, assignor to T. J. Holmes Co., Inc., Chartley, Mass. Bottle. 115,792; July 18.
Holmes, T. J., Co. (See Hoch, Frederick R., assignor.)
Jordan, Frank W. (See Brandes, A., and Jordan.)
Judkins, J. B., Company. (See Stickney, Roland L., assignor.)
Kelm, Melville, Highland Park, assignor to Clean Home Products, Incorporated, Chicago, Ill. Insecticide container. 115,820; July 18.
Kircher, Ralph N., assignor to West Bend Aluminum Company, West Bend, Wis. Serving oven. 115,821; July 18.
Kovarik, Joseph M., Jr. (See Reinecke, J. O., Kovarik, and Zinkil.)
MacGregor, Bertha L., as trustee. (See Roessner, William L., assignor.)
McCullouch, William L., Aurora, Ill. Desk telephone directory. 115,763; July 18.
Meglbow, George, New York, N. Y. Textile fabric. 115,808; July 18.
Meyer, John F., assignor to The Exhibit Supply Company, Chicago, Ill. Vibrator. 115,793; July 18.
Miller, Herman. (See Green, S., and Miller.)
Morgan, John R., Oak Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Portable stove. 115,822; July 18.
O'Brien, George R., assignor of one-half to C. De Frehn, Superior, Wis. Hand gaff. 115,764; July 18.
Osborn, Charles L., Chicago, Ill. Combined earmuff display and stand therefor. 115,765; July 18.
Oxweld Acetylene Company. (See Carnes, Herman W., assignor.)
Palmer Brothers Company, The. (See Foggett, Ruth S., assignor.)
Peters and Russell, Inc. (See Russell, Linus E., assignor.)
Poole, Frederick A., Barrington, assignor to Production Instrument Company, Chicago, Ill. Counting device. 115,809; July 18.
Production Instrument Company. (See Poole, Frederick A., assignor.)
Pro-phy-lac-tic Brush Company. (See Conant, Roger, assignor.)
Red Jacket Manufacturing Company. (See Deters, Elmer M., assignor.)
Reiff, Meyer, Philadelphia, Pa. Blank for a pendant cruciform. 115,794; July 18.
Reinecke, Jean O., assignor to Crane Co., Chicago, Ill. Shower head. 115,795; July 18.
Reinecke, Jean O., assignor to Crane Co., Chicago, Ill. Combined handle and escutcheon. 115,796; July 18.
Reinecke, Jean O., assignor to Crane Co., Chicago, Ill. Combined lavatory spout, waste handle and ice-water faucet. 115,797; July 18.
Reinecke, Jean O., and J. M. Kovarik, Jr., Chicago, and R. H. Zinkil, Oak Park, assignors to Crane Co., Chicago, Ill. Combined lavatory leg and towel bar. 115,810; July 18.
Reinecke, Jean O., assignor to Crane Co., Chicago, Ill. Combined lavatory supply fixture and waste handle. 115,811; July 18.
Remington Rand Inc. (See Wolters, C. F., and Tober, assignors.)
Reverse Camera Company. (See Sperry, Philmore F., assignor.)
Robinson, Grace C., New York, N. Y. Lipstick holder. 115,823; July 18.
Roessner, William L., Chicago, Ill., assignor to B. L. MacGregor, as trustee. Fire extinguishing grenade. 115,824; July 18.
Rohtman, Harris A., New York, N. Y. Embroidered textile fabric. 115,812; July 18.
Rohtman, Harris A., New York, N. Y. Embroidered textile fabric. 115,813; July 18.
Ronacher, Vincent, New York, N. Y. Electrically illuminated picture viewer or similar article. 115,766; July 18.
Ruchman, Albert, New York, N. Y. Dress. 115,825; July 18.
Russell, Linus E., assignor to Peters and Russell, Inc., Springfield, Ohio. Pneumatic pump frame. 115,798; July 18.
Sakier, George, New York, N. Y., assignor to Fostoria Glass Company, Moundsville, W. Va. Goblet or similar article. 115,799; July 18.
Sakier, George, New York, N. Y., assignor to Fostoria Glass Company, Moundsville, W. Va. Plate or similar article. 115,800; July 18.
Sakier, George, New York, N. Y., assignor to Fostoria Glass Company, Moundsville, W. Va. Pickle dish or similar article. 115,801; July 18.
Sears, Roebuck and Co. (See Morgan, John R., assignor.)
Skellern, Victor, Fenton, Stoke-on-Trent, England, assignor to Josiah Wedgwood & Sons, Inc., of America, New York, N. Y. Plate or similar article. 115,767; July 18.
Smith, Mary C., South Weymouth, Mass. Doll. 115,768; July 18.
Snavely, Thomas J., Peabody, Kans., assignor to American Optical Company, Southbridge, Mass. Pair of spectacles. 115,769; July 18.
Soderberg, Louis R., Great Neck, N. Y. Combination mirror and direction indicator. 115,802; July 18.
Spero, Leon, East Cleveland, Ohio. Shade holder. 115,770; July 18.
Sperry, Philmore F., assignor to Revere Camera Company, Chicago, Ill. Motion picture projector. 115,771; July 18.
Splaine, Edward M., assignor to American Optical Company, Southbridge, Mass. Pair of spectacles. 115,772; July 18.
Stickney, Roland L., New York, N. Y., assignor to J. B. Judkins Company, Merrimac, Mass. Restaurant building or similar article. 115,803; July 18.
Strand, Jacob, New York, N. Y. Cup hook. 115,773; July 18.
Swindell Brothers, Incorporated. (See Dunnock, John L., assignor.)
Tiffany & Company. (See Barney, Arthur L., assignor.)
Tjaarda, John, assignor to Briggs Manufacturing Company, Detroit, Mich. Combination kitchen unit. 115,826; July 18.
Tober, Allan H. (See Wolters, C. F., and Tober.)
Trumbull, Frank S., Providence, R. I. Spoon or similar article. 115,774; July 18.
Wedgwood, Josiah, & Sons, Inc., of America. (See Skellern, Victor, assignor.)
West Bend Aluminum Company. (See Kircher, Ralph N., assignor.)
Whitted, John B. (See Christensen, O. Neil, assignor.)
Wolters, Carl F., Kenmore, and A. H. Tober, assignors to Remington Rand Inc., Buffalo, N. Y. Photographic printer. 115,775; July 18.
Wolters, Carl F., Kenmore, and A. H. Tober, assignors to Remington Rand Inc., Buffalo, N. Y. Combined photographic printer and holder therefor. 115,776; July 18.
Worthington, Everett, Scarsdale, assignor to American Can Company, New York, N. Y. Jar or similar container. 115,804; July 18.
Wright, Horace C., assignor to Flexible Shaft Company, Chicago, Ill. Toilet case. 115,805; July 18.
Zinkil, Roy H. (See Reinecke, J. O., Kovarik, and Zinkil.)

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbot, William G., Jr. (See Magnano, S., and Abbott.)
Abrahams, Robert D., executor, et al. (See David, John.)
Achslager-Syndikat. (See Pesarese, Fritz, assignor.)
Adams, Charles L., Cape May, N. J. Fire extinguisher. 2,166,277; July 18.
Adolphsen, Albert W., assignor to Puritan Compressed Gas Corporation, Kansas City, Mo. Oxygen inhaling assembly. 2,166,574; July 18.
Aigner, Viktor, Berlin-Charlottenburg, Germany, assignor to General Electric Company. Synchronizing apparatus. 2,166,785; July 18.
Air Cooled Motors Corporation. (See Doman, Carl T., assignor.)
Aktiebolaget Bolinder-Munktell. (See Evrell, Kaleb E., assignor.)
Alderfer, Sterling W., Akron, Ohio. Food product and making the same. 2,166,278; July 18.
Alexny, Adalbert, Schenectady, N. Y., assignor to General Electric Company. Waste disposal apparatus. 2,166,786; July 18.
Allen, Clyve, Berkeley, assignor to Shell Development Company, San Francisco, Calif. Making nitrite esters of polyhydroxy aliphatic compounds. 2,166,698; July 18.
Allen, Elbert W., Belgium, Wis. Shoe. 2,166,204; July 18.
Allen, Wallace T., Royal Oak, and O. Maseng, assignors to Square D Company, Detroit, Mich. Flexible lead connection. 2,166,333; July 18.
Allied Products Corporation. (See Richard, Clement C., assignor.)
Allis-Chalmers Manufacturing Company. (See Bohn, D. L., and Martl, assignors.)
Allis-Chalmers Manufacturing Company. (See Brennels, L., Najera, and Schuck, assignors.)
Allis-Chalmers Manufacturing Company. (See Greer, Edward R., assignor.)
Allis-Chalmers Manufacturing Company. (See Stivender, Paul M., assignor.)
Alther, Joseph G., assignor to Universal Oil Products Company, Chicago, Ill. Hydrocarbon oil conversion. 2,166,787; July 18.
American Blower Corporation. (See Anderson, Edward L., assignor.)
American Cyanamid Company. (See Bradley, Theodore F., assignor.)
American Cyanamid Company. (See Ham, G. P., and Barnes, assignors.)
American Cyanamid Company. (See Roblin, R. O., Jr., and Hechenbleikner, assignors.)
American Floor Surfacing Machine Company. (See Knelsley, Richard F., assignor.)
American Laundry Machinery Company, The. (See Hetzer, Russell A., assignor.)
American Machine & Foundry Company. (See Kellner, Paul, assignor.)
American Metal Company, The. (See Heuer, Russell P., assignor.)
American Optical Company. (See Lehmberg, William H., assignor.)
American Plastics Corporation. (See Parsons, John A., assignor.)
American Radiator & Standard Sanitary Corporation. (See Cornell, Edward S., Jr., assignor.)
American Rock Wool Corporation. (See Drill, Daniel C., assignor.)
American Steel Foundries. (See Aurien, Ray G., assignor.)
Ammann, Eugen, Hamburg, and G. C. F. Meissner, Hamburg-Altona, assignors to the firm of Schacht & Westerich, Hamburg, Germany. Device for receiving written and graphic matter. 2,166,853; July 18.
Ammen, Francis D., Los Angeles, and W. H. Maxwell, Beverly Hills, assignors of one-third to C. A. Miketta, Los Angeles, Calif. Apparatus for reproducing races. 2,166,132; July 18.
Amsden, Ralph D., Lynn, Mass., assignor to General Electric Company. Control circuit. 2,166,788; July 18.
Anderson, Edward L., Wayne County, assignor to American Blower Corporation, Detroit, Mich. Tunnel fan. 2,166,276; July 18.
Anderson, Lannes E., Collingswood, and A. T. Harding, Audubon, N. J., assignors to Radio Corporation of America. Fixed capacitor. 2,166,205; July 18.
Anderson, Roy S., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y. Sound reproducing system. 2,166,838; July 18.
Anderson, Thomas, Elizabeth, assignor to Power Patents Company, Hillside, N. J. Brake testing apparatus. 2,166,699; July 18.
Anderson, Roger, Seattle, Wash. Spinal reduction splint. 2,166,229; July 18.
Appel, Samuel, et al. (See Appel, Sydney, assignor.)
Appel, Sydney, Newark, assignor of one-third to W. J. Foster, Little Ferry, and one-third to S. Appel, Newark, N. J. Screen control. 2,166,745; July 18.
Arcade Manufacturing Company. (See Sward, Delbert, assignor.)
Armstrong Cork Company. (See Du Bois, David I., assignor.)
Arntzen, Incorporated. (See Arntzen, Ole B., assignor.)
Arntzen, Ole B., assignor to Arntzen, Inocorporated, Seattle, Wash. Liquid gauge. 2,166,779; July 18.
Ash, Solomon, Bronx, N. Y. Protective pad. 2,166,837; July 18.
Askania-Werke A. G. (See Heinisch, Paul, assignor.)
Askania-Werke A. G. (See Hochschulz, Alfred, assignor.)
Askania-Werke A. G. (See Heinisch, P., and Schencke, assignors.)
Askania-Werke A. G. (See Schuchardt, Hans, assignor.)
Associated Telephone & Telegraph Company. (See Taylor, R., and Baker, assignors.)
Association of American Soap & Glycerine Producers, Inc. (See Du Puis, R. N., Lenth, and Segur, assignors.)
Atcherley, Richard L. R., South Farnborough, England. Means and method for refueling aircraft in flight or like operation. 2,166,575; July 18.
Atkins, George E., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sound translating apparatus. 2,166,515; July 18.
Atlantic Refining Company, The. (See Clothier, F. M., Jr., and Field, assignors.)
Atlantic Refining Company, The. (See King, Edward P., assignor.)
Atlantic Refining Company, The. (See Woodcock, Charles H., assignor.)
Atlas Werke Aktiengesellschaft. (See Kunze, Willy, assignor.)
Atwood, John L., and V. H. Pavlecka, assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif. Airplane having folding wings. 2,166,564; July 18.
Aurien, Ray G., assignor to American Steel Foundries, Chicago, Ill. Carrier iron and brake fulcrum. 2,166,886; July 18.
Aurien, Ray G., assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,166,887; July 18.
Auster, Marie, New York, N. Y. Hair curler. 2,166,386; July 18.
Austin, Ellsworth W., Cedar Rapids, Iowa. Propeller. 2,166,653; July 18.
Automotive Products Company Limited. (See Gates, Geoffrey R. G., assignor.)
Auto Union Aktiengesellschaft. (See Schuh, H. J., and Boxan, assignors.)
Auto-Vehicle Parts Company, The. (See Rennekamp, Clarence J., assignor.)
Axe, Roy T., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Operating mechanism for hinged closures and the like. 2,166,710; July 18.
Babcock & Wilcox Company, The. (See Shoemaker, Guy T., assignor.)
Bailey, Alan J., St. Paul, assignor to Regents of the University of Minnesota, Minneapolis, Minn. Alcoholic treatment of ligneous cellulosic material. 2,166,540; July 18.
Bailey, Charles W., and J. H. Scharffenberg, assignors to Stewart Bros. Inc., Lynn, Mass. Counter molding machine. 2,166,888; July 18.
Bainbridge, George A., Cardiff, Wales. Ramp for the protection of hose pipes. 2,166,516; July 18.
Baird, Raymond A., Elizabeth, Ind. Window control device. 2,166,481; July 18.
Baker, Charles S., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor regulator. 2,166,789; July 18.
Baker, George T. (See Taylor, R., and Baker.)
Baker, James S., Sydney, Australia, assignor to The Mantle Lamp Company of America, Chicago, Ill. Laundry iron. 2,166,334; July 18.
Baker, Judd O., Merchantville, N. J., assignor to Radio Corporation of America. Photoacoustical apparatus. 2,166,672; July 18.
Baker, W. J., Co. (See Konen, Harry, assignor.)
Baldanza, Nicholas T., Passaic, N. J. Spectacles. 2,166,110; July 18.
Ball Brothers Company. (See Wadsworth, Frank L. O., assignor.)
Baluta, Robert. (See Roman, P., and Baluta.)

Bancroft, Howard L., Sharon, Pa., assignor of one-half to H. S. Smith, Hubbard, Ohio. Pump. 2,166,111; July 18.

Banner, Murray, Brooklyn, N. Y. Stereoptican slide. 2,166,335; July 18.

Barnes, Robert B. (See Ham, G. P., and Barnes.)

Barningham, Charles S., Edgewood, assignor to New England Butt Company, Providence, R. I. Braiding machine carrier. 2,166,336; July 18.

Barr, Victor L., Philadelphia, Pa., assignor to Roller Bearing Company of America, Trenton, N. J. Roller retainer ring and race member assembly for roller bearings. 2,166,673; July 18.

Barrett, Olive L. (See Martignoni, Marino S., assignor.)

Barry Automatic Trailer Inc. (See McCalley, James B., assignor.)

Bartel, Harry H., assignor to Huck-Gerhardt Company, Inc., Philadelphia, Pa. Overhead operating garage door construction. 2,166,746; July 18.

Bartlett, William D., Miami, Fla. Bucket for miniature digging and hoisting machines. 2,166,854; July 18.

Barton, Loy E., Collingswood, N. J., assignor to Radio Corporation of America. Indicating device. 2,166,674; July 18.

Barwick, Attys B., assignor of fifty-one per cent to M. D. Moody, Sr., Jacksonville, Fla. Visible sanitary sink trap. 2,166,279; July 18.

Bassin, Charles S., Newton, assignor to New England Theatres, Inc., Boston, Mass. Film holding device. 2,166,387; July 18.

Batu, Jan A., Zlin, Czechoslovakia. Device for working on the soles of footwear. 2,166,482; July 18.

Bates, Hampton R., Roanoke, Va. Automobile bumper. 2,166,483; July 18.

Bates, Harry, assignor to Bates Laboratories, Inc., New York, N. Y. Toy typewriter. 2,166,112; July 18.

Bates Laboratories, Inc. (See Bates, Harry, assignor.)

Bauer, Jake G., Albuquerque, N. Mex. Form release shore heads. 2,166,576; July 18.

Banwens, Seraphine F., Chicago, Ill. Decorative band. 2,166,337; July 18.

Bay, Charles A. (See Rypinski, A. B., and Bay.)

Bayer, Kurt, Magdeburg, and A. Burkhardt, Berlin-Lichterfelde, West, assignors to Georg von Giesche's Erben, Breslau, Germany. Deep-drawing zinc alloy. 2,166,338; July 18.

Bazzoni, Lewis J., Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Skiving machine. 2,166,280; July 18.

Beach, Norman F., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Moisture-proof cellulosic sheeting. 2,166,711; July 18.

Beadel, John J. (See Coates, Frank, assignor.)

Beck, George C., Spokane, Wash. Cylinder honing and wiping device. 2,166,281; July 18.

Becker, Paul K., Glen Ellyn, assignor to National Pectin Products Company, Chicago, Ill. Container construction. 2,166,619; July 18.

Becker, Wilhelm. (See Schröter, R., and Becker.)

Becklus, Antoine, Luxemburg, Luxemburg. Building suitable for countries liable to earthquakes. 2,166,577; July 18.

Beckwith, Lawton B. (See Bray, U. B., and Beckwith.)

Bedford, Alda V., Collingswood, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Television system. 2,166,712; July 18.

Bedford, Robert H., New York, N. Y. Frozen material. 2,166,113; July 18.

Beech-Nut Packing Company. (See McBean, Douglas M., assignor.)

Beers, George L., Collingswood, N. J., assignor to Radio Corporation of America. Tuning control system for high fidelity receivers. 2,166,675; July 18.

Begun, Semi J., assignor, by mesne assignments, to Carli Tucker, New York, N. Y. Signal transmitting system. 2,166,517; July 18.

Behr-Manning Corporation. (See Wintermute, Harry A., assignor.)

Behr, Otho M., Redondo Beach, assignor to Vegetable Oil Products Company, Inc., Los Angeles, Calif. Treating fatty oils. 2,166,103; July 18.

Bell Telephone Laborntories, Incorporated. (See Atkins, George E., assignor.)

Bell Telephone Laboratories, Incorporated. (See Cushman, R. A., Smith, and Specht, assignors.)

Bell Telephone Laboratories, Incorporated. (See Hardesty, J. M., and Sutton, assignors.)

Bell Telephone Laboratories, Incorporated. (See Lakatos, Emory, assignor.)

Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)

Bell Telephone Laboratories, Incorporated. (See Matthies, William H., assignor.)

Bell Telephone Laboratories, Incorporated. (See Peek, Robert L., Jr., assignor.)

Bell Telephone Laboratories, Incorporated. (See Riesz, Robert R., assignor.)

Bell Telephone Laboratories, Incorporated. (See Saul, George N., assignor.)

Beliah, George R., West Arcadia, Calif. Door hook mounting. 2,166,620; July 18.

Benda, James, Wausau, Wis. Blade holder. 2,166,855; July 18.

Benander, George B., Yalesville, Conn., assignor, by mesne assignments, to The Monowatt Electric Corporation, Providence, R. I. Electrical device. 2,166,790; July 18.

Bendix Aviation Corporation. (See Jenny, Cletus J., assignor.)

Bendix Aviation Corporation. (See Menzer, Anton, assignor.)

Bendix Aviation Corporation. (See Reichel, W. A., and Ketay, assignors.)

Bendix Aviation Corporation. (See Robertson, Edwin A., assignor.)

Benedek, Elek, Mount Gilead, Ohio. Pump or motor. 2,166,717; July 18.

Benedek, Elek K., Bucyrus, Ohio. Variable displacement pump or motor. 2,166,114; July 18.

Benjafield, Walter O., assignor to B. Webster, New York, N. Y. Electric lamp. 2,166,282; July 18.

Bennett, Irving T., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Building up metal parts. 2,166,700; July 18.

Bennett, Irving T., assignor to Revere Copper and Brass Incorporated, Rome, N. Y. Forming bearing surfaces. 2,166,701; July 18.

Benson, Melvin B., New York, N. Y., assignor to Lidgerwood Manufacturing Company, Elizabeth, N. J. Combination hand and power steering apparatus. 2,166,206; July 18.

Bergenn, Olav T., Brooklyn, N. Y. Gaming device. 2,166,115; July 18.

Bergstein, Edna M., trustee. (See Bergstein, Robert M., assignor.)

Bergstein, Robert M., assignor to E. M. and R. M. Bergstein, Cincinnati, Ohio, as trustees. Machine for combining bags and cartons. 2,166,388; July 18.

Berger Brothers Company, The. (See Versoy, Irving R., assignor.)

Bergstein, Robert M., Cincinnati, Ohio. Packaging. 2,166,389; July 18.

Berndt, Arthur A., assignor to Electroline Company, Chicago, Ill. Reclaiming member and entrance guide for connectors. 2,166,457; July 18.

Berndt, Arthur A., and H. C. Nycum, assignors to Electroline Company, Chicago, Ill. Connector. 2,166,458; July 18.

Bernhardt, Ted W., San Fernando, Calif. Concealed carpet tacking tape. 2,166,578; July 18.

Bertell, Paul. (See La Hodny, W., and Bertell.)

Best Foods, Inc., The. (See Schaub, Jacob, assignor.)

Best, Frank C., assignor to Packard Motor Car Company, Detroit, Mich. Safety device. 2,166,747; July 18.

Bettis, William I., Los Angeles, assignor to E. B. Kleaver, Burbank, Calif. Well casing protector. 2,166,116; July 18.

Betz, Lyman B., Hammond, Ind. Refrigeration. 2,166,283; July 18.

Bixler, Harley H., Schenectady, N. Y., assignor to General Electric Company. Refrigerator. 2,166,791; July 18.

Black, Willy, Berlin-Halensee, Germany, assignor to General Electric Company. Hydraulic torque converter. 2,166,792; July 18.

Blackhawk Mfg. Co. (See Schultz, Edward H., assignor.)

Blaikie, Kenneth G., and R. N. Crozier, Shawinigan Falls, Quebec, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Polyvinyl acetal resins and composition thereof. 2,166,856; July 18.

Blain, Webster M. (See King, Lamar R., assignor.)

Blattner, August H., Pine Lawn, assignor to Carter Carburetor Corporation, St. Louis, Mo. Carburetor structure. 2,166,899; July 18.

Bloch, Richard, Pelham Manor, N. Y. Woman's stocking or the like. 2,166,748; July 18.

Blumenfeld, Joseph, Neuilly-sur-Seine, assignor to Societe de Produits Chimiques des Terres Rares, Paris, France. Preparation of oxygen containing compounds of cerium. 2,166,702; July 18.

Blumer, Manuel, Butler, Pa., assignor to L. Sonneborn Sons, Inc. Purification of petroleum mohogany sulphonates. 2,166,117; July 18.

Bohleber & Ledbetter. (See Morgan, Porter S., assignor.)

Bohn, Donald I., Pittsburgh, Pa., and O. K. Martl, Wauwatosa, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric current converting system. 2,166,900; July 18.

Boice, John E., Toledo, Ohio. Woodworking machine. 2,166,703; July 18.

Bokovoy, Samuel A., Audubon, N. J., assignor to Radio Corporation of America. Piezoelectric crystal mounting. 2,166,713; July 18.

Boldt, Werner F., Overland, assignor to Wagner Electric Corporation, St. Louis, Mo. Brake shoe clearance take-up means. 2,166,793; July 18.

Booge, James E., and A. B. Laftman, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Tinted pigments and producing the same. 2,166,230; July 18.

Borg-Warner Corporation. (See Mills, Herbert E., assignor.)

Borland, John, assignor to The Timken Roller Bearing Company, Canton, Ohio. Shaft bearing locking means. 2,166,391; July 18.

Bousquet, Euclid W., and P. L. Salzberg, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Insecticidal compositions containing heterocyclic amides. 2,166,118; July 18.

Bousquet, Euclid W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Insecticide. 2,166,119; July 18.

Bousquet, Euclid W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Insecticidal composition. 2,166,120; July 18.

Boxan, Walter. (See Schuh, H. J., and Boxan.)

Boyce, Alfred M., Riverside, Calif., dedicated by assignment to the Government and the People of the United States of America. Dusting composition. 2,166,122; July 18.

Boyce, Alfred M., Riverside, Calif., dedicated by assignment to the Government and the People of the United States of America. Dusting composition. 2,166,121; July 18.

Boyce, Alfred M., Riverside, W. H. Chandler, Berkeley, and M. H. Kimball, Alhambra, Calif., dedicated by assignment to the Government and the People of the United States of America. Termination of rest period of deciduous plants. 2,166,123; July 18.

Boye Needle Company, The. (See Byrnes, E. P., and Davis, assignors.)

Bradley, Bruce L. (See Bradley, Freeman J., assignor.)

Bradley, Freeman J., assignor to B. L. Bradley, Ypsilanti, Mich. Trailer hitch and brake. 2,166,738; July 18.

Bradley, Theodore F., Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y. Oxygen-convertible compositions. 2,166,542; July 18.

Brandt, Raymond V., Clermont, Iowa. Electric sterilizer for hypodermic syringes and the like. 2,166,284; July 18.

Bray, Ulric B., Palos Verdes Estates, and L. B. Beckwith, San Pedro, assignors to Union Oil Company of California, Los Angeles, Calif. Emulsions and producing the same. 2,166,541; July 18.

Breed, Alfred V., assignor to Curtis Machine Corporation, Jamestown, N. Y. Abrading device. 2,166,676; July 18.

Bresse, James L., assignor to Oil Devices, Santa Fe, N. Mex. Burner for liquid fuels. 2,166,231; July 18.

Breitling, Ernst, Berlin-Tempelhof, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash register, accounting, and the like machine. 2,166,459; July 18.

Brennels, Louis, C. L. Najera, and J. F. Schuck, Oxnard, Calif., assignors, by mesne assignments, to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Disk harrow. 2,166,678; July 18.

Breyer, Felix, Hanover, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Detecting high-frequency oscillations. 2,166,124; July 18.

Briggs Manufacturing Company. (See Tjaarda, John, assignor.)

Briscoe, Henry V. A., Barnes, London, England. Cooking of drying oils and varnishes. 2,166,539; July 18.

Briscoe, James, and J. L. Corcoran, Bridgeport, Conn., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y. Relief valve. 2,166,390; July 18.

Britton, Joseph W., R. F. Prescott, and R. C. Dosser, assignors to The Dow Chemical Company, Midland, Mich. Preservation and utilization of styrene. 2,166,125; July 18.

Broluska, Amel B., Detroit, Mich. Crank movement eliminating dead center. 2,166,565; July 18.

Broluska, Amel B., Detroit, Mich. Safety self-locking rail joint system. 2,166,654; July 18.

Brophy, Gerald R., Schenectady, N. Y., assignor to General Electric Company. Copper-cobalt-beryllium alloys. 2,166,794; July 18.

Brown Bag Filling Machine Company. (See Chandler, Austin S., assignor.)

Brown, Bernard A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Cushioning device for electric motors. 2,166,285; July 18.

Brown Instrument Company, The. (See Side, Frederick W., assignor.)

Brown Instrument Company, The. (See Skagerberg, Rutcher, assignor.)

Browne, Harold H., Brooklyn, N. Y. Manufacture of yeast. 2,166,339; July 18.

Brownell, Barnett M., University City, Mo. Pipe connector. 2,166,232; July 18.

Buchman, Edwin R., Pasadena, Calif., assignor to Research Corporation, New York, N. Y. Preparing antineuritic substances. 2,166,233; July 18.

Buda Company, The. (See Gromley, Frank L., assignor.)

Budnick, Louis, assignor to S. Budnick, New York, N. Y. Electric wiring connection. 2,166,621; July 18.

Budnick, Sadye. (See Budnick, Louis, assignor.)

Buehner, William F. A. (See Schwarzkopf, Adolf, assignor.)

Bugatti, Jean, Molsheim, France. Lubricating device. 2,166,857; July 18.

Bugatti, Ettore, Molsheim, France. Railway truck. 2,166,858; July 18.

Buhman, Henry A. (See Castle, George F., assignor.)

Burg, Louis. (See Illig, Edward A., assignor.)

Burgess Battery Company. (See Hoyle, Robert L., assignor.)

Burgess Battery Company. (See Manning, Willis L., assignor.)

Burke, James P., Knoxville, Tenn., assignor of one-half to F. L. McLaughlin, Detroit, Mich. Combustion chamber for an internal combustion engine. 2,166,679; July 18.

Burkhardt, Arthur. (See Bayer, K., and Burkhardt.)

Burkhardt, Arthur, Berlin-Lichterfelde, assignor to Georg von Giesche's Erben, Breslau, Germany. Plastic zinc alloy of constant dimensions. 2,166,340; July 18.

Burkhardt, Arthur, Berlin-Lichterfelde, and W. Wolf, Magdeburg, assignors to Georg von Giesche's Erben, Breslau, Germany. Machinable plastic zinc alloy. 2,166,341; July 18.

Burns, Everett C., Spokane, Wash. Hairpin. 2,166,460; July 18.

Burrill, Harold G., Baltimore, Md. Machine for undulatingly corrugating cardboard. 2,166,749; July 18.

Burton-Allen Gold Reclaiming Corporation. (See Burton, Harry H., assignor.)

Burton, Harry H., Whitman, Mass., assignor to Burton-Allen Gold Reclaiming Corporation, Wilmington, Del. Ore concentration. 2,166,392; July 18.

Byers, John R., Jr. (See Wagar, George H., Sr., assignor.)

Byrnes, Edward P., and E. D. Davis, Chicago, Ill., assignors to The Boye Needle Company. Package for needles and the like. 2,166,714; July 18.

Cadzow, Robert. (See Dowsett, H. M., and Cadzow.)

Cahn, Frank J., and M. B. Katzman, Chicago, Ill. Shampoo composition. 2,166,127; July 18.

Cairns, Robert W., assignor to Hercules Powder Company, Wilmington, Del. Manufacture of ammonium nitrate. 2,166,579; July 18.

Calco Chemical Co., Inc., The. (See Laury, Napoleon A., assignor.)

Caldwell, John P., Portland, Maine. Motor vehicle safety device. 2,166,580; July 18.

Callen, Lucian S., Clayton, Mo. Potato cutter. 2,166,622; July 18.

Campbell Soup Company. (See Johannes, Erich H. L., assignor.)

Caplan, Solomon, New York, N. Y., assignor, by mesne assignments, to Harvel Research Corporation. Compositions of matter. 2,166,518; July 18.

Carboloy Company. (See Shepherd, Noble N., assignor.)

Carlile, Alfred E., Meadville, Pa., assignor to Talon, Inc. Slider lock. 2,166,581; July 18.

Carlson, Adolph G., Chicago, Ill. Hopper closure mechanism. 2,166,484; July 18.

Carlson, Gustave A., Detroit, Mich. Work supporting table. 2,166,461; July 18.

Carlson, Gustave A., Detroit, Mich. Finishing machine. 2,166,859; July 18.

Carlson, Marvin C. (See Popp, R., and Carlson.)

Carr Fastener Company Limited. (See Wagstaff, George, assignor.)

Carruth, Herman A., Northford, assignor to National Folding Box Company, New Haven, Conn. Method and apparatus for assembling wrapped boxes. 2,166,126; July 18.

Carter Carburetor Corporation. (See Blattner, August H., assignor.)

Carter Carburetor Corporation. (See Coffey, Irven E., assignor.)

Carter, Philip S., Port Jefferson, N. Y., assignor to Radio Corporation of America. Antenna. 2,166,750; July 18.

Casas Robert, Ramon, Geneva, Switzerland. Tension device for sewing machines. 2,166,770; July 18.

Castle, George F., assignor of one-half to H. A. Buhman, Baltimore, Md. Accelerator. 2,166,128; July 18.

Catini, Vincenzo, assignor to Spiral Binding Company, Inc., New York, N. Y. Spiral binding machine. 2,166,519; July 18.

Catland, Alfred C., Alhambra, assignor to Globe Oil Tools Company, Los Nietos, Calif. Core drill head. 2,166,462; July 18.

Cavins, Paul, Long Beach, Calif. Oil well bailer and cleaner. 2,166,715; July 18.

Celanese Corporation of America. (See Elvin, William J., assignor.)

Celanese Corporation of America. (See Moss, William H., assignor.)

Challoner, Neville B., Los Angeles, Calif. Truck signal. 2,166,520; July 18.

Champion Brake Corporation. (See Lindeman, James E., assignor.)

Chandler, Austin S., assignor to The Brown Bag Filling Machine Company, Fitchburg, Mass. Index and brake device. 2,166,716; July 18.

Chandler, Harry G., Lakewood, Ohio. Multiple damper and control. 2,166,623; July 18.

Chandler, Homer P., assignor to The Ohio Brass Company, Mansfield, Ohio. Rail bond. 2,166,655; July 18.

Chandler, William H. (See Boyce, A. M., Chandler, and Kimball.)

Chapman Valve Mfg. Co. (See Malcolm, Vincent T., assignor.)

Chapman Valve Manufacturing Company. (See Goldberg, David D., assignor.)

Charlton, Henry E. (See Moore, H., and Charlton.)

Chase Brass & Copper Co. (See Shoemaker, Richard W., assignor.)

Chelius, Reinhard, Essen-Margarethenhohe, Germany, assignor to General Electric Company. Sintered hard alloy for machining hard castings. 2,166,795; July 18.
Chicago Forging & Manufacturing Company. (See Hynes, Dibrell P., assignor.)
Chicago Transformer Corporation. (See Helgason, A., and Keegan, assignors.)
Chrysler Corporation. (See Parker, Glenn H., assignor.)
Churchill, Wilmer H., Saugus, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Reinforcement member. 2,166,889; July 18.
Ciofalo, John, Brooklyn, and J. Ciofalo, Yonkers, N. Y. Display receptacle. 2,166,422; July 18.
Ciofalo, Joseph. (See Ciofalo, John and J.)
Claff, Clarence L., Randolph, Mass. Making paper boxes or the like with printed wrappers. 2,166,287; July 18.
Clark, Max J., Pontiac, Mich. Hydraulic device. 2,166,423; July 18.
Clark, Walter G., assignor to Clarkiron, Inc., Los Angeles, Calif. Ore reduction process. 2,166,207; July 18.
Clarkiron, Inc. (See Clark, Walter G., assignor.)
Clothier, Fred M., Jr., Lansdowne, and H. W. Field, Glen Mills, assignors to The Atlantic Refining Company, Philadelphia, Pa. Polymerization of hydrocarbon gases. 2,166,129; July 18.
Coates, Frank, assignor of one-half to J. J. Beadle, Corydon, Iowa. Snow plow. 2,166,424; July 18.
Coe, Allan R., assignor to The Carlyle Johnson Machine Co., Manchester, Conn. Removable locking device. 2,166,130; July 18.
Coffey, Irven E., assignor to Carter Carburetor Corporation, St. Louis, Mo. Electric circuit interrupter. 2,166,901; July 18.
Cohn, Barnard, and L. A. Swarthe, New York, N. Y. Vegetable cutter. 2,166,624; July 18.
Colbree, Chester R., Bridgeport, Conn., assignor to General Electric Company. Insulated conductor. 2,166,796; July 18.
Cold Metal Process Company, The. (See McBain, William C., assignor.)
Collatz, Ferdinand A., St. Paul, Minn., assignor to General Mills, Inc. Fortifying cereal products with minerals. 2,166,797; July 18.
Colbohm, Franklin R., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif. Method and apparatus for indicating oxygen concentration in a gaseous medium. 2,166,104; July 18.
Colt's Patent Fire Arms Manufacturing Co. (See Schmalz, William F., assignor.)
Columbus Pharmacal Company, The. (See Jones, Harold W., assignor.)
Compagnie National de Matieres Colorantes et Manufactures de Produits Chimique du Nord Reunies, Etablissements Kuhlmann. (See Fierz-David, H. E., and Stoll, assignors.)
Conant, Willard I. (See Handshy, C. F., and Conant.)
Conley, William J., assignor to E. Phelps Langworthy, Rochester, N. Y. Heat treating spheroidized steel. 2,166,839; July 18.
Conover, Warren M., Waukegan, Ill., assignor, by mesne assignments, to Outboard, Marine & Manufacturing Company, Wilmington, Del. Enclosed outboard motor drive. 2,166,234; July 18.
Conrady, John A., assignor to The Crosley Corporation, Cincinnati, Ohio. Refrigerating apparatus. 2,166,677; July 18.
Continental Can Company. (See Kronquest, Alfred L., assignor.)
Continental Distilling Corporation. (See Knoedler, E. L., and Preston, assignors.)
Continental Research Corporation. (See Gayer, F. H., and Fawkes, assignors.)
Cooper, Frank P., Clifton, Ohio. Mechanical pencil. 2,166,751; July 18.
Corcoran, James L. (See Briscoe, J., and Corcoran.)
Corcoran, John J. (See Hull, S. P., and Corcoran.)
Corn Products Refining Company. (See Hagen, Carl, assignor.)
Cornell, Edward S., Jr., Larchmont, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Expansion tank. 2,166,235; July 18.
Cornell-Dubilier Corporation. (See Weiss, Felix, assignor.)
Côté, Marcellin, Akron, Ohio. Applying guards or bumpers. 2,166,798; July 18.
Cox, Paul F., Chicago, Ill. Stop cylinder vertical reciprocating flat bed press. 2,166,582; July 18.
Crago, Harry R., Caldwell, N. J., assignor to General Electric Company. Adjustable humidostat. 2,166,799; July 18.
Craig, Bernard C., Grand Rapids, Minn. Excavating structure. 2,166,800; July 18.
Crawford, Monroe L., San Angelo, assignor to Ultra Modern Piano Bench Company, Tom Green County, Tex. Piano bench. 2,166,485; July 18.
Crawford, Richard A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Composition of matter. 2,166,236; July 18.
Creager, Frederick L., Camden, N. J., assignor to Radio Corporation of America. Impulse switch. 2,166,680; July 18.
Cressey, Steve E., San Pedro, Calif. Float for fish nets. 2,166,463; July 18.
Critten, Robert A., Gary, Ind. Continuous strip pickling method and apparatus. 2,166,583; July 18.
Crosley Corporation, The. (See Conrady, John A., assignor.)
Cross, Thomas Jr., Baton Rouge, La., assignor to Standard Oil Development Company. Conversion of hydrocarbons. 2,166,544; July 18.
Crossley, Royal E., Fayetteville, assignor to Crouse-Hinds Company, Syracuse, N. Y. Lighting unit. 2,166,393; July 18.
Crossley, Royal E., Fayetteville, assignor to Crouse-Hinds Company, Syracuse, N. Y. Floodlight mounting. 2,166,394; July 18.
Crouse-Hinds Company. (See Crossley, Royal E., assignor.)
Crouse-Hinds Company. (See Jeffers, Walter M., assignor.)
Crozier, August B., Walford, Iowa. Post hole digger. 2,166,395; July 18.
Crozier, Robert N. (See Blaikie, K. G., and Crozier.)
Cullen, Albert E., Willow Grove, Pa. Roadway for toy electric vehicles. 2,166,752; July 18.
Cunningham, John J., New York, N. Y. Collar. 2,166,425; July 18.
Currier, Philip M., Ballston Spa, N. Y., assignor to General Electric Company. Dynamo-electric machine. 2,166,801; July 18.
Curry, Virgil A., Dehue, W. Va. Trolley wire tap with anchor clamp. 2,166,656; July 18.
Curtis Companies Incorporated. (See Green, Earl E., assignor.)
Curtis Machine Corporation. (See Breed, Alfred V., assignor.)
Cushman, Robert A., Morristown, P. H. Smith, Denville, and M. A. Specht, Tenafly, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Antenna coupling system. 2,166,237; July 18.
Daimles-Benz Aktiengesellschaft. (See Heess, Albert, assignor.)
Daly, Irene M., New York, N. Y. Attachment for books. 2,166,802; July 18.
Darco Corporation. (See Twining, Ralph H., assignor.)
Darling Valve and Manufacturing Company. (See Kiesel, John S., assignor.)
Dasenbrook, Charles H., assignor to Thayer Action Company, Rockford, Ill. Piano action. 2,166,396; July 18.
David, John, deceased, New York, N. Y., V. B. David, G. Frankenthaler, Irving Trust Company, and R. D. Abrahams, executors, assignors to V. B. David. Shirt. 2,166,342; July 18.
David, Vera B., executor, et al. (See David, John.)
Davis, Clarence D., Chicago, Ill. Internal combustion engine. 2,166,464; July 18.
Davis, Edward D. (See Byrnes, E. P., and Davis.)
Davis, Henry, Earlwood, New South Wales, Australia. Closure and locking means for kit bags, cash bags, and the like. 2,166,860; July 18.
Davis, Lincoln K., Brockton, Mass. Movement-producing device. 2,166,238; July 18.
Davis, Lincoln K., Brockton, Mass. Movement-producing device. 2,166,239; July 18.
Davis, Reuben F. (See Penick, Arthur J. and K. T., and Davis.)
Dayton, Max E., assignor of one-half to B. St. John, Rockford, Ill., Coupler. 2,166,208; July 18.
Deak, Frank, New York, N. Y. Collapsible sunshade. 2,166,625; July 18.
Deanesly, Richard M., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Purification of ketones. 2,166,584; July 18.
De Florez, Luis. (See Gray, James W., assignor.)
De Groote, Melvin, University City, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd. Resolving petroleum emulsions. 2,166,431; July 18.
De Groote, Melvin, University City, Mo., assignor, by mesne assignments, to Petrolite Company, Ltd. Resolving petroleum emulsions. 2,166,432; July 18.
De Groote, Melvin, University City, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd. Resolving petroleum emulsions. 2,166,433; July 18.
De Groote, Melvin, University City, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd. Resolving petroleum emulsions. 2,166,434; July 18.
Denham, Robert B., Indianapolis, Ind. Intermolecular lubricant. 2,166,286; July 18.
Denhard, Roy. (See Hall, R. S., and Denhard.)
Dent, Charles E., London, England, assignor to Imperial Chemical Industries Limited. Heterocyclic compounds. 2,166,240; July 18.
Derbyshire, William B., Philadelphia, Pa. Shoe polishing device. 2,166,521; July 18.
De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Momentary contact push switch. 2,166,803; July 18.
Derks, Ethel C., Ryderwood, Wash. Scouring apparatus. 2,166,343; July 18.
Derleth, Clark, assignor to Kusel Dairy Equipment Co., Watertown, Wis. Cheese vat. 2,166,753; July 18.
Desmond, Jeremiah J., assignor of one-half to J. R. Grove, Washington, D. C. Boiler sheet and tube connection and making same. 2,166,890; July 18.

Deverall, Charles N., Buffalo, assignor to Niagara Blower Company, New York, N. Y. Evaporative cooler. 2,166,397; July 18.
Devey, John, Jr., Monterey Park, assignor of one-sixth to H. W. Hunt and one-sixth to W. W. Hunt, El Centro, Calif. Combine beet harvester. 2,166,626; July 18.
De Wouters d'Oplinter, Jean G. M. J., Brussels, Belgium. Dual control device for aircraft. 2,166,241; July 18.
Dick, Burns, Ferguson, assignor to Wagner Electric Corporation, St. Louis, Mo. Braking apparatus. 2,166,754; July 18.
Dick, Burns, Ferguson, assignor to Wagner Electric Corporation, St. Louis, Mo. Braking system. 2,166,804; July 18.
Dickson, James T., Los Angeles, Calif. Equalizer for sucker rods. 2,166,426; July 18.
Dimmick, Glenn L., Erlton, N. J., assignor to Radio Corporation of America. Sound recording. 2,166,718; July 18.
Dole Refrigerating Company. (See Kleist, Herman W., assignor.)
Doman, Carl T., Geddes, assignor to Air Cooled Motors Corporation, Liverpool, N. Y. Internal combustion engine. 2,166,398; July 18.
Dome, Robert B., Bridgeport, Conn., assignor to General Electric Company. Control circuit. 2,166,805; July 18.
Donohue, Nell, Chicago, Ill. Clip. 2,166,344; July 18.
Doolittle, Mervin R., Jackson, Mich. Method and apparatus for control of temperature. 2,166,242; July 18.
Dosser, Robert C. (See Britton, J. W., Prescott, and Dosser.)
Douglas Aircraft Company. (See Atwood, J. L., and Pavlecka, assignors.)
Douglas Aircraft Company. (See Collbohm, Franklin R., assignor.)
Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical contact and connection means. 2,166,345; July 18.
Douglas, Harry A., Bronson, Mich., assignor to Kingston Products Corporation. Electrical connection means. 2,166,346; July 18.
Dow Chemical Company, The. (See Britton, J. W., Prescott, and Dosser, assignors.)
Dow Chemical Company, The. (See Stoesser, S. M., and Gabel, assignors.)
Dowsett, Harry M., London, and R. Cadzow, Argyllshire, England, assignors to Radio Corporation of America. Television and like receiver. 2,166,399; July 18.
Draheim, William C., Withee, Wis. Portable grinder. 2,166,861; July 18.
Drake, John L., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for tempering glass. 2,166,427; July 18.
Drill, Daniel C., assignor to American Rock Wool Corporation, Wabash, Ind. Apparatus for making mineral wool. 2,166,400; July 18.
Du Bois, David I., Millville, N. J., assignor, by mesne assignments, to Armstrong Cork Company, Manheim Township, Lancaster County, Pa. Method and apparatus for treatment of glass and similar ware. 2,166,428; July 18.
Duncan, Merritt E., Atlanta, Ga. "Memo" stand. 2,166,131; July 18.
Du Pont, E. I., de Nemours & Company. (See Booge, J. E., and Laftman, assignors.)
Du Pont, E. I., de Nemours & Company. (See Bousquet, Euclid W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Bousquet, E. W., and Salzberg, assignors.)
Du Pont, E. I., de Nemours & Company. (See Haag, Ivan L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hansley, Virgil L., assignor.)
Du Pont, E. I., de Nemours & Company. (See Howk, Benjamin W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Kepfer, R. J., and Telfer, assignors.)
Du Pont, E. I., de Nemours & Company. (See Madson, Willard H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Patterson, Gordon D., assignor.)
Du Pont, E. I., de Nemours & Company. (See Shaw, William H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Signalgo, Frank K., assignor.)
Du Pont Film Manufacturing Corporation. (See Salzberg, P. L., and White, assignors.)
Du Pont Film Manufacturing Corporation. (See Weber, J. R., and Sease, assignors.)
Du Puis, Robert N., C. W. Lenth, and J. B. Segur, Chicago, Ill., assignors to Association of American Soap & Glycerine Producers, Inc., New York, N. Y. Peanut product and method. 2,166,806; July 18.
Eastman Kodak Company. (See Beach, Norman F., assignor.)
Eastman Kodak Company. (See Wellman, Howard C., assignor.)
Eastman Kodak Company. (See White, F. L., and Keyes, assignors.)
Eastman Manufacturing Company. (See Schuknecht, W. C., and Jagemann, assignors.)
Eaton Manufacturing Company. (See Hoern, Joseph H., assignor.)
Eberspacher, J. (See Martin, Herbert, assignor.)
Eckhardt, Paul K. (See Lazich, B., and Eckhardt.)
Edison General Electric Appliance Company. (See Ewald, Fred J., Jr., assignor.)
Edwards, Eldred E. (See Putnam, J. F., and Edwards.)
Edwards, James A., Kansas City, Mo. Can assembly. 2,166,465; July 18.
Edwards, O. M., Company, The. (See Axe, Roy T., assignor.)
Edwards, William F. M., Hinchley Wood, Esher, assignor to Filter Tips Limited, London, England. Cigarette apparatus. 2,166,486; July 18.
Ehlers, George M., assignor, by mesne assignments, to Globe-Union Inc., Milwaukee, Wis. Spark suppressor resistor. 2,166,755; July 18.
Eisemann Magneto Corporation. (See Purdy, Everett M., assignor.)
Electroline Company. (See Berndt, Arthur A., assignor.)
Electroline Company. (See Berndt, A. A., and Nyemm, assignors.)
Elliott, Amos W. (See Scott, Bernard H., assignor.)
Ellis, Herbert, Shanghai, China, assignor to Linotype and Machinery Limited, London, England. Typographical slug casting machine. 2,166,719; July 18.
Elvin, William J., Cumberland, Md., assignor to Celanese Corporation of America. Bobbin. 2,166,243; July 18.
Emmert, Kenneth L. (See Hensel, F. R., and Emmert.)
Engleman, Charles S., assignor of one-half to S. Metrik, New York, N. Y. Duplicating attachment for typewriters. 2,166,288; July 18.
Engstrom, Gustaf W. (See Johnston, E. A., and Engstrom.)
Estate Stove Company, The. (See Kahn, Bertrand B., assignor.)
Eugene Fruit Growers Association. (See Swofford, John, assignor.)
Evans, Merlin M., Bethesda, Md. Device, adapter, tool, or the like to facilitate the manufacture of artificial fish lures. 2,166,585; July 18.
Evelyn, Harry C., Chicago, Ill. Flashlight device. 2,166,657; July 18.
Evrell, Kaleb E., Eskilstuna, assignor to Aktiebolaget Bolinder-Munktell, Eskilstuna, Sweden. Apparatus for actuating the pressure rollers of sawing machines. 2,166,627; July 18.
Ewald, Fred J., Jr., Elmhurst, assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill. Electric heater. 2,166,807; July 18.
Ewald, Walter. (See Strube, R., and Ewald.)
Fairfield Engineering Company, The. (See Haines, George H., assignor.)
Farney, Leon W., Grantwood, N. J., assignor to Farney Tool & Machine Works, Inc., New York, N. Y. Bus bar and strip bender. 2,166,347; July 18.
Farney Tool & Machine Works, Inc. (See Farney, Leon W., assignor.)
Farrell, Francis J., Philadelphia, assignor to Farrell Safety Road Marker, Inc., Conshohocken, Pa. Road marker. 2,166,669; July 18.
Farrell Safety Road Marker, Inc. (See Farrell, Francis J., assignor.)
Farrington, John F., Flushing, N. Y., assignor to Hazeltine Corporation. Frequency converter. 2,166,522; July 18.
Faulkner, Arnold, assignor to United Steel and Wire Company, Battle Creek, Mich. Securing means for meat molds. 2,166,429; July 18.
Fawkes, Charles E. (See Gayer, F. H., and Fawkes.)
Federal Mogul Corporation. (See Meyer, Theodore F. W., assignor.)
Feind, Raymond A. (See Hepp, A. J., and Feind.)
Feldman, Max. (See Ranko, L. A., and Feldman.)
Feldt, Adolf, Berlin-Charlottenburg, K. Schöllkopf, Berlin-Dahlem, and A. Schmitz, Berlin-Friedenau, Germany. Therapeutically valuable gold compounds and producing the same. 2,166,133; July 18.
Felix, Fredrich, and R. Ruegg, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Condensation products from cyano-acetic acid arylides. 2,166,487; July 18.
Fidelity Machine Company. (See Larkin, Walter, assignor.)
Field, Hugh W. (See Clothier, F. M., Jr., and Field.)
Fierz-David, Hans E., and W. G. Stoll, Zurich, Switzerland, assignors to Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France. Diazoamino compounds. 2,166,681; July 18.
Filter Tips Limited. (See Edwards, William F. M., assignor.)
Finch, James L., Patchogue, N. Y., assignor to Radio Corporation of America. Signaling system. 2,166,756; July 18.
Finke, Max, Emmendingen, Germany. Impressed-picture medium. 2,166,289; July 18.
Firestone Tire & Rubber Company, The. (See Saurer, Curt, assignor.)
Firestone Tire & Rubber Company, The. (See Van Halteren, Andrew S., assignor.)
Fitch, Benjamin F., Greenwich, Conn., assignor to Motor Terminals, Inc., Cleveland, Ohio. Demountable tank for vehicles. 2,166,134; July 18.
Fletcher, James H., Wilmette, Ill. Mine haulage unit. 2,166,135; July 18.

Flett, Lawrence H., Hamburg, assignor to National Aniline & Chemical Company, Inc., New York, N. Y. Forming nuclear alkyl derivatives of phenols. 2,166,136; July 18.

Flindt, Albert O., Schenectady, N. Y., assignor to General Electric Company. Surface cooler. 2,166,808; July 18.

Flynn, Theodore P., and R. E. Neils, Portland, Oreg., dedicated to the free use of the People of the United States of America. Combined gear powered bulldozer and hoist. 2,166,105; July 18.

Flynn, Theodore P., and R. E. Neils, Portland, Oreg., dedicated to the free use of the People of the United States of America. Portable trail compressor. 2,166,780; July 18.

Food Machinery Corporation. (See Hait, James M., assignor.)

Ford, George R., Jr., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for tempering glass sheets. 2,166,348; July 18.

Ford, Harold P., Seattle, Wash. Construction system. 2,166,658; July 18.

Forss, Frithiof P., Aurora, assignor to Independent Pneumatic Tool Co., Chicago, Ill. Grinder and control valve therefor. 2,166,757; July 18.

Forsthoefel, Gregg F., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,166,628; July 18.

Forsthoefel, Gregg F., Adrian, Mich., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cabinet construction. 2,166,630; July 18.

Foster, Frank A., Maywood, assignor to The Goss Printing Press Company, Chicago, Ill. Printing press inking mechanism. 2,166,631; July 18.

Foster, Isaac O., Bloomington, Ind. Direction signal for vehicles. 2,166,862; July 18.

Foster, William J., et al. (See Appel, Sydney, assignor.)

Foulkes, Thomas E., London, England. Storing articles in warerooms. 2,166,704; July 18.

Fox, Marvin. (See Medwick, M. P., and Fox.)

Frame, William J., Putney, London, and J. J. Hambidge, Wandsworth Common, London, England. Suction cleaning and sweeping machine. 2,166,863; July 18.

Franck, Oscar, New York, N. Y. Pump. 2,166,758; July 18.

Frank, Harry S., Middletown, Conn. Cooling apparatus. 2,166,401; July 18.

Frankel, Jack, Brooklyn, N. Y. Life saving rope and belt. 2,166,809; July 18.

Frankenthaler, George, executor, et al. (See David, John.)

Frantz-Manufacturing Co. (See Wölf, Cecil R., assignor.)

Fredd, Harry, New York, N. Y. Device for dispensing web material. 2,166,349; July 18.

Freeman, Joseph N., Cedar Rapids, Iowa. Brake testing device. 2,166,244; July 18.

Freshman, Earl, Pottstown, Pa. Device and method for attaching continuous zipper or slide fastener tapes to continuous strips of fabric. 2,166,350; July 18.

Freysinger, John B., assignor to North and Judd Manufacturing Company, New Britain, Conn. Buckle. 2,166,902; July 18.

Freysinger, John B., assignor to North and Judd Manufacturing Company, New Britain, Conn. Buckle. 2,166,903; July 18.

Fridén, John H., Maplewood, assignor to The Sun Tube Corporation, Hillside, N. J. Slug handling and treating mechanism. 2,166,209; July 18.

Friedman, William F., Washington, D. C., and F. B. Rowlett, East Falls Church, Va. Electrical switching mechanism. 2,166,137; July 18.

Fritz, Karl, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Magnetron discharge tube for frequency multiplication. 2,166,210; July 18.

Fuel Research Development Corporation. (See Slade, Walter C., assignor.)

Fuel Research Development Corporation. (See Snyder, Frederick T., assignor.)

Gabel, Arnold R. (See Stoesser, S. M., and Gabel.)

Gaebel, Arthur H., Larchmont, N. J. Supporting means. 2,166,523; July 18.

Galion Metallic Vault Company. (See Smith, Ralph E., assignor.)

Gallagher, John T. (See McMullen, J., and Gallagher.)

Gammeter, John R., Akron, Ohio. Ice cream scoop. 2,166,810; July 18.

Gardner, Daniel, Rueil-Malmaison, France, assignor to Maatschappij voor Thermo-Chemie N. V., Arnhelm, Netherlands. Treatment of beryllium ores. 2,166,659; July 18.

Garman, George W. (See Levoy, L. G., Jr., and Garman.)

Gate City Sash & Door Company. (See Jones, Earl P., assignor.)

Gates, Geoffrey R. G., assignor of one-half to Automotive Products Company Limited, London, England. Servo-brake mechanism for vehicles and the like. 2,166,586; July 18.

Gates, Paul G., Long Beach, Calif. Pump type baller. 2,166,488; July 18.

Gates, Paul G., Long Beach, Calif. Pump type baller. 2,166,489; July 18.

Gathmann, Emil, assignor to Gathmann Research Incorporated, Catonsville, Md. Ingot mold and ingot. 2,166,587; July 18.

Gathmann Research Incorporated. (See Gathmann, Emil, assignor.)

Gaus, George E., Washington, D. C., assignor to Henry A. Wallace, Secretary of Agriculture of the United States of America and his successors in office. Cotton sample selecting device. 2,166,811; July 18.

Gayer, Frederick H., and C. E. Fawkes, Chicago, assignors to Continental Research Corporation, Chicago Heights, Ill. Separation of the constituents of organic mixtures containing both resin acids and fatty acids, particularly tall oil. 2,166,812; July 18.

Gee, William P., Plainfield, N. J., assignor to The Texas Company, New York, N. Y. Dewaxing hydrocarbon oil. 2,166,891; July 18.

Gelardin, Albert, New York, N. Y. Advertising novelty. 2,166,864; July 18.

Gency, William, assignor to North and Judd Manufacturing Company, New Britain, Conn. Buckle. 2,166,466; July 18.

General Conveyors Corporation. (See Ruppenthal, Norman P., assignor.)

General Electric Company. (See Aigner, Viktor, assignor.)

General Electric Company. (See Alexay, Adalbert, assignor.)

General Electric Company. (See Amsden, Ralph D., assignor.)

General Electric Company. (See Bixler, Harley H., assignor.)

General Electric Company. (See Black, Willy, assignor.)

General Electric Company. (See Brophy, Gerald R., assignor.)

General Electric Company. (See Chellus, Reinhard, assignor.)

General Electric Company. (See Colbree, Chester R., assignor.)

General Electric Company. (See Crago, Harry R., assignor.)

General Electric Company. (See Currier, Philip M., assignor.)

General Electric Company. (See De Reamer, Frank C., assignor.)

General Electric Company. (See Dome, Robert B., assignor.)

General Electric Company. (See Flindt, Albert O., assignor.)

General Electric Company. (See Gibson, Hal, assignor.)

General Electric Company. (See Herskind, Carl C., assignor.)

General Electric Company. (See Levoy, Louis G., Jr., assignor.)

General Electric Company. (See Levoy, L. G., Jr., and Garman, assignors.)

General Electric Company. (See Lord, Harold W., assignor.)

General Electric Company. (See Maser, Harold T., assignor.)

General Electric Company. (See Rosenlöcher, Otto, assignor.)

General Electric Company. (See Runaldue, Lewis R., assignor.)

General Electric Company. (See Schmidt, August, Jr., assignor.)

General Electric Company. (See Stacy, John D., assignor.)

General Electric Company. (See Stone, Fred L., assignor.)

General Electric Company. (See Thoson, Harry L., assignor.)

General Electric Company. (See Wilfart, Maurice, assignor.)

General Mills, Inc. (See Collatz, Ferdinand A., assignor.)

General Motors Corporation. (See Brown, Bernard A., assignor.)

General Motors Corporation. (See Geyer, Harvey D., assignor.)

General Motors Corporation. (See Henney, Charles F., assignor.)

General Motors Corporation. (See Karmazin, John, assignor.)

General Motors Corporation. (See Schweller, Sylvester M., assignor.)

General Motors Corporation. (See Woodling, George V., assignor.)

General Railway Signal Company. (See Preston, Neil D., assignor.)

General Railway Signal Company. (See Wells, Robert F., assignor.)

Gerdes, Hans, Wilhelmshaven, Germany. Semicoffer or ship caisson. 2,166,865; July 18.

Getchell, Benjamin E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electric switch. 2,166,545; July 18.

Geyer, Harvey D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Steering wheel assembly. 2,166,290; July 18.

Gibson, Hal, Dallas, Tex., assignor to General Electric Company. Air conditioning system. 2,166,813; July 18.

Gillette Safety Razor Company. (See Muros, Joseph, assignor.)

Ginsoff, Jerome, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine. Coat collar construction. 2,166,566; July 18.

Globe Oil Tools Company. (See Catland, Alfred C., assignor.)

Glove-Union Inc. (See Ehlers, George M., assignor.)

Goff, Leonard D., and R. O. Monroe, assignors to The Johnson Corporation, Three Rivers, Mich. Condensate siphon. 2,166,245; July 18.

Goldberg, David D., Springfield, assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Valve operating mechanism. 2,166,840; July 18.

Goodall, Howard W., Aldan, Pa. Hose clamp. 2,166,524; July 18.

Goodall Worsted Company, The. (See Ginsoff, Jerome, assignor.)

Goodhue, Roy A., Spokane, Wash. Egg dehydrator. 2,166,467; July 12.

Goodrich, B. F., Company, The. (See Crawford, Richard A., assignor.)

Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)

Gora, Henry Z., assignor to Jenkins Bros., Bridgeport, Conn. Coupling. 2,166,402; July 18.

Gora, Henry, Bridgeport, Conn., assignor to Jenkins Bros., New York, N. Y. Method and apparatus for molding and securing rubber objects to fabric. 2,166,490; July 18.

Gorleski, Alexander, Leonia, N. J. Fuel mixing device. 2,166,720; July 18.

Gormley, Frank L., Brookline, Mass., assignor to The Buda Company, Harvey, Ill. Ball-bearing screw and nut for lifting jacks and similar devices. 2,166,106; July 18.

Goss Printing Press Company, The. (See Foster, Frank A., assignor.)

Government and the People of the United States of America, The. (See Boyce, Alfred M., assignor.)

Government and the People of the United States of America, The. (See Boyce, A. M., Chandler, and Kimball, assignors.)

Graubner, Herman G., New York, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Flashlight. 2,166,682; July 18.

Gray, Edward, Detroit, Mich. Double opposed lever engine. 2,166,211; July 18.

Gray, James W., Mountain Lakes, N. J., assignor to L. De Florez, New York, N. Y. Level column for evaporators and fractionating towers. 2,166,904; July 18.

Grayson, John H., Lynwood, Calif. Time clock controlled automatic mechanism. 2,166,683; July 18.

Green, Earl E., assignor, by mesne assignments, to Curtis Companies Incorporated, Clinton, Iowa. Wall cabinet. 2,166,430; July 18.

Greenawalt, William E., Denver, Colo. Metallurgical process. 2,166,759; July 18.

Greenstreet, Clarence B., Elsinore, Calif. Bullet deflecting attachment for firearms. 2,166,468; July 18.

Greer, Edward R., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Door operating mechanism. 2,166,892; July 18.

Gromus, Karl, Vienna, Austria. Light control device. 2,166,491; July 18.

Groth, William J., Los Angeles, Calif. Ash trap. 2,166,291; July 18.

Grove, John R. (See Desmond, Jeremiah J., assignor.)

Guided Radio Corporation. (See Langevin, Carl C., assignor.)

Gundlach, Howard F., Cleveland, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich. Surface decoating method and apparatus. 2,166,138; July 18.

Guthrie, Robert G., and O. J. Wilbor, assignors, by mesne assignments, to R. G. Guthrie. Dielectric device. 2,166,139; July 18.

Haag, Ivan L., Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Manufacture of calcium arsenate. 2,166,246; July 18.

Haberstump, Alfred H., assignor to The Murray Corporation of America, Detroit, Mich. Forming inner trim panels. 2,166,435; July 18.

Hagen, Carl, Park Ridge, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Vacuum drier. 2,166,351; July 18.

Haines, George H., Caledonia, assignor to The Fairfield Engineering Company, Marion, Ohio. Mixing apparatus. 2,166,403; July 18.

Hait, James M., Los Angeles, Calif., assignor to Food Machinery Corporation. Electrical impeller positioning device for turbine pumps. 2,166,404; July 18.

Hait, James M., Los Angeles, Calif., assignor to Food Machinery Corporation. Mercury seal. 2,166,405; July 18.

Hall, Randolph F., Rochester, N. Y. Airplane. 2,166,292; July 18.

Hall, Robert S., and R. Denhard, Detroit, Mich. Sawfiling apparatus. 2,166,567; July 18.

Ham, Garnet P., Old Greenwich, and R. B. Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y. Stabilization of blue-print coatings. 2,166,546; July 18.

Hambidge, John J. (See Frame, W. J., and Hambidge.)

Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Shelf paper. 2,166,352; July 18.

Hammer, Franz J. (See von Hofe, G. W., and Hammer.)

Handshy, Charles F., St. Louis, Mo., and W. I. Conant, Decatur, Ill. Lock structure. 2,166,660; July 18.

Hansley, Virgil L., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dialkyl formamides as selective solvents for refining mineral oils. 2,166,140; July 18.

Hansen, Frank J., Cheyenne, Wyo., assignor of one-half to J. C. Valentine, Sioux City, Iowa. Accelerator mechanism. 2,166,866; July 18.

Hanson, Hans, Portland, Oreg. Door construction. 2,166,588; July 18.

Hardesty, James M., and S. M. Sutton, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Constructing concrete manholes. 2,166,632; July 18.

Harding, Arthur T. (See Anderson, L. E., and Harding.)

Hardy, Charles, Brooklyn, N. Y. Private refreshment bar. 2,166,633; July 18.

Harl, Frank J., Newark, N. J. Glare-preventive lens. 2,166,684; July 18.

Harlow, Walter F., Duffield, England. Centrifugal pump. 2,166,436; July 18.

Harrington, Oscar S., Miami, Fla. Car aerial. 2,166,589; July 18.

Harris, Benjamin R., Chicago, Ill. Sulphocarboxylic esters. 2,166,141 July 18.

Harris, Benjamin R., Chicago, Ill. Sulphocarboxylic acid esters. 2,166,142; July 18.

Harris, Benjamin R., Chicago, Ill. Sulphocarboxylic esters. 2,166,143; July 18.

Harris, Benjamin R., Chicago, Ill. Preparation of sulphocarboxylic esters. 2,166,144; July 18.

Harris, Benjamin R., Chicago, Ill. Sulphocarboxylic esters. 2,166,145; July 18.

Hartley, Ralph V. L., South Orange, and H. E. Ives, Montclair, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y. Electro-optical transmission system. 2,166,247; July 18.

Harvel Corporation, The. (See Caplan, Solomon, assignor.)

Harvey, Marcus C., Stroud, Okla. Hanger. 2,166,492; July 18.

Hauck, Vernon D. (See Henderson, R. A., and Hauck.)

Hayward, Edmund P., Buenos Aires, Argentina. Defroster for windshields. 2,166,146; July 18.

Hayward, John T., Tulsa, Okla. Apparatus for measuring well depths and well strings. 2,166,212; July 18.

Hazeltine Corporation. (See Farrington, John F., assignor.)

Hechenbleikner, Ingenlun. (See Roblin, R. O., Jr., and Hechenbleikner.)

Heess, Albert, Stuttgart-Bad-Cannstatt, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterkleim, Germany. Internal combustion engine. 2,166,525; July 18.

Heilbron, Isidor M., Manchester, England, F. Irving, Grangemouth, Scotland, and R. P. Linstead, London, England, assignors to Imperial Chemical Industries Limited. Coloring matters of the phthalocyanine type. 2,166,213; July 18.

Heinisch, Paul, and K. Schenecke, Berlin, Germany, assignors to Askania-Werke A. G. Motion picture camera. 2,166,147; July 18.

Heinisch, Paul, Berlin-Zehlendorf, Germany, assignor to Askania-Werke A. G. Photographic camera. 2,166,148; July 18.

Heinze, William A., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Fluid seal with welded housing. 2,166,293; July 18.

Helgason, Arni, Wilmette, and P. E. Keegan, assignors to Chicago Transformer Corporation, Chicago, Ill. Coil. 2,166,841; July 18.

Henderson, Roy A., West Collingswood, and V. D. Hauck, Merchantville, N. J., assignors to Radio Corporation of America. Protective system and apparatus for discharge tubes. 2,166,685; July 18.

Henney, Charles F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,166,906; July 18.

Henry, Charles L., assignor to Lee C. Moore & Company, Inc., Pittsburgh, Pa. Chain adjuster. 2,166,406; July 18.

Hensel, Franz R., and K. L. Emmert, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electrical contacting element. 2,166,248; July 18.

Hepp, Anthony J., and R. A. Feind, Chicago, Ill. Railroad refrigerator car. 2,166,867; July 18.

Hercules Powder Company. (See Cairns, Robert W., assignor.)

Hercules Powder Company. (See Shapleigh, James H., assignor.)

Herman, Joseph L., Peoria, Ill. Apparatus for coating metallic materials. 2,166,249; July 18.

Herman, Joseph L., Peoria, Ill. Coating metallic materials. 2,166,250; July 18.

Herman, Joseph L., Peoria, Ill. Apparatus for coating metallic materials. 2,166,251; July 18.

Herskind, Carl C., Schenectady, N. Y., assignor to General Electric Company. Excitation system for third harmonic interphase transformers. 2,166,814; July 18.

Herterich, William F., Brooklyn, N. Y., assignor to The Technygraph, Techny, Ill. Ink pad for duplicating machines. 2,166,907; July 18.

Heslop, Robert N., and W. W. Tatum, Grangemouth, Scotland, assignors to Imperial Chemical Industries Limited. Anthraquinone dyestuffs. 2,166,353; July 18.

Hetzer, Russell A., Madeira, assignor to The American Laundry Machinery Company, Norwood, Ohio. Fabric cleaning apparatus. 2,166,294; July 18.

Heuer, Russell P., Byrn Mawr, Pa., assignor to The American Metal Company, Limited, New York, N. Y. Copper refining process. 2,166,354; July 18.

Hewitt, Edwin J., Obama, Nebr. Tonic and oil applicator. 2,166,295; July 18.

Hibbard, E. W., et al. (See Wilsey, Irven H., assignor.)

Hidde Nijland, Hendrik A., Laren, Netherlands. Electric circuit breaker. 2,166,590; July 18.

Higgins, Leo J., and H. L. Rosen, Madison, Wis. Auxiliary heating apparatus. 2,166,355; July 18.

Hill, James L., Kansas City, Mo. Brake unit. 2,166,493; July 18.

Hiller, Eugen, Berlin, Germany. Circular warp loom. 2,166,494; July 18.

Hillery-Collings, Charles E., Mitcham, England. Film magazine for cinematographic cameras. 2,166,543; July 18.

Hinsey, Robert S., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Grinding machine. 2,166,356; July 18.

Hitchcock, William J., Scotia, N. Y. Electric lamp. 2,166,781; July 18.

Hobart Manufacturing Company, The. (See Jensen, Donald G., assignor.)

Hockschulz, Alfred, Chicago, Ill., assignor to Askania-Werke A. G. Fluid pressure relay. 2,166,705; July 18.

Hoe, R., & Co. (See Huck, William F., assignor.)

Hoern, Joseph H., Saginaw, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio. Self-locking adjusting screw. 2,166,686; July 18.

Hohl, Russell L., New York, N. Y. Illuminating device. 2,166,149; July 18.

Hollister, Thomas L., Miami, Fla. Station equipment. 2,166,501; July 18.

Holsten, Frank E., Tulsa, Okla. Treating petroleum tank bottoms. 2,166,893; July 18.

Holt, Joseph, Seattle, Wash. Holder for collapsible tube containers. 2,166,107; July 18.

Hoover, Daniel S., Mansfield, Ohio. Steering wheel attachment. 2,166,296; July 18.

Hopkins, Carl P., assignor to The Latimer-Goodwin Chemical Company, Grand Junction, Colo. Insecticides and making same. 2,166,661; July 18.

Horvath, James J., deceased, South Bend, Ind. M. Horvath, executrix. Fruit juice extractor. 2,166,547; July 18.

Horvath, Mary, executrix. (See Horvath, James J.)

Houde Engineering Corporation. (See Locke, Albert R., assignor.)

Houdry Process Corporation. (See Peterkin, Albert G., assignor.)

Houston, Julia L., Los Angeles, Calif. Bathtub. 2,166,469; July 18.

Howarth, David, Glendale, Calif., assignor to South Bend Bait Company, South Bend, Ind. Reel seat. 2,166,407; July 18.

Howie, James E. (See Howie, Robert K. and J. E.)

Howie, Robert K. and J. E., Chicago, Ill. Mixing and molding device. 2,166,437; July 18.

Howk, Benjamin W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic hydrogenation of dinitriles to diamines. 2,166,150; July 18.

Howk, Benjamin W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Catalytic hydrogenation of adiponitriles to produce hexamethylene diamines. 2,166,151; July 18.

Howk, Benjamin W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenation of aliphatic dinitriles. 2,166,152; July 18.

Hoyle, Robert L., Lombard, assignor to Burgess Battery Company, Chicago, Ill. Silencer. 2,166,408; July 18.

Huber, William G., Hopkins, Minn. Support-engaging base for display devices. 2,166,470; July 18.

Huck-Gerhardt Company. (See Bartel, Harry H., assignor.)

Huck, William F., Richmond Hill, assignor to R. Hoe & Co., Inc., New York, N. Y. Matrix making machine with pressure indicator. 2,166,153; July 18.

Huff, Sargent P., Chevy Chase, Md. Parachute flare. 2,166,154; July 18.

Hull, Samuel P., Yonkers, and J. J. Corcoran, Albany, assignors to Railroad Accessories Corporation, New York, N. Y. Pipe carrier. 2,166,409; July 18.

Humane Fur Getter, Inc., The. (See Marlman, Ethel P., assignor.)

Hunt, Harold W., et al. (See Devey, John, Jr., assignor.)

Hurlow, Hugh, Jr. (See Riblet, Royal N., assignor.)

Hutchinson, Fenton F., assignor to Kohler & Chase, San Francisco, Calif. Current converting system. 2,166,155; July 18.

Hydraulic Brake Company. (See Loweke, Erwin F., assignor.)

Hydrulic Press Corp., Inc. (See Pocock, P. C., and Shaw, assignors.)

Hynes, Dibrell P., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill. Hood latch. 2,166,252; July 18.

I. G. Farbenindustrie Aktiengesellschaft. (See Leupold, E. O., and Vollmann, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Meyer, Georg, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Michel, Josef M., assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Rein, Herbert, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Schröter, R., and Becker, assignors.)

Igarashi, Isamu, and G. Kitahara, Fuse, assignors to Sumitomo Kinzoku-Kogyo Kabushiki Kaisha, Osaka, Japan. Aluminum alloys. 2,166,495; July 18.

Igarashi, Isamu, and G. Kitahara, Fuse, assignors to Sumitomo Kinzoku-Kogyo Kabushiki Kaisha, Osaka, Japan. Aluminum alloys. 2,166,496; July 18.

Ilg Electric Ventilating Co. (See Sutcliffe, Arthur G., assignor.)

Illig, Edward A., assignor of one-half to L. Burg, Erie, Pa. Clothes drier. 2,166,592; July 18.

Illinois Clay Products Company, The. (See Nichols, Arthur S., assignor.)

Imperial Chemical Industries Limited. (See Dent, Charles E., assignor.)

Imperial Chemical Industries Limited. (See Heilbron, I. M., Irving, and Linstead, assignors.)

Imperial Chemical Industries Limited. (See Heslop, R. N., and Tatum, assignors.)

Imperial Chemical Industries Limited. (See Sexton, Wilfred A., assignor.)

Independent Pneumatic Tool Co. (See Forss, Frithiof P., assignor.)

Ingersoll-Rand Company. (See Baker, Charles S., assignor.)

Ingersoll-Rand Company. (See Morrison, William A., assignor.)

International Harvester Company. (See Johnston, E. A., and Engstrom, assignors.)

International Harvester Company. (See Lingren, A. C., and Raney, assignors.)

Irving, Francis. (See Heilbron, I. M., Irving, and Linstead.)

Irving Trust Company, executor, et al. (See David, John.)

Irwin, Benjamin H. (See Silva, A. D., and Irwin.)

Ivers-Lee Company. (See Salfisberg, Leroy L., assignor.)

Ives, Herbert E. (See Hartley, R. V. L., and Ives.)

Jackson, John M., Los Angeles, Calif. Control device. 2,166,410; July 18.

Jacobson, Peter G., Chicago, Ill. Antibacklash device. 2,166,662; July 18.

Jacquet, René J. F., Cortenberg, assignor to Tannerie & Maroquinerie Belges (Société Anonyme), Saventhem, near Brussels, Belgium. Treatment of gelatin and glue. 2,166,297; July 18.

Jagemann, George N. (See Schuknecht, W. C., and Jagemann.)

Jagschitz, Konrad, Mainz, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Germany. Dry gas holder. 2,166,156; July 18.

Janssen, Henry, assignor to Textile Machine Works, Wyomissing, Pa. Textile machine yarn conditioner. 2,166,548; July 18.

Jarvis, Kenneth W., Chicago, Ill. Method and apparatus for radio reception. 2,166,298; July 18.

Jeffers, Walter M., assignor to Crouse-Hinds Company, Syracuse, N. Y. Traffic signal system. 2,166,721; July 18.

Jeffrey Manufacturing Company, The. (See Mitchell, Lewis E., assignor.)

Jenkins Bros. (See Gora, Henry, assignor.)

Jenkins Bros. (See Gora, Henry Z., assignor.)

Jenks, George S., Pittsburgh, Pa. Shipping tin plate. 2,166,594; July 18.

Jenny, Cletus J., East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Temperature compensated indicating instrument. 2,166,595; July 18.

Jensen, Aage, Phillips, Wis. Windshield. 2,166,108; July 18.

Jensen, Donald G., Cincinnati, assignor to The Hobart Manufacturing Company, Troy, Ohio. Flour sifting machine. 2,166,438; July 18.

Jensen, Frithjoff. (See Severin, Carl E., assignor.)

Johannes, Erich H. L., Audubon, N. J., assignor to Campbell Soup Company. Can-filling machine. 2,166,528; July 18.

Johnson, Alpheus D., Wichita, Kans., assignor of one-half to M. J. Welsh, Kansas City, Mo. Reflex camera. 2,166,471; July 18.

Johnson, Carlyle, Machine Co., The. (See Coe, Allan R., assignor.)

Johnson, Colle, Port William, Ohio. Holder for hog or swine rings. 2,166,526; July 18.

Johnson Corporation, The. (See Goff, L. D., and Monroe, assignors.)

Johnson, John C., Boswell, Ind. Road drag. 2,166,596; July 18.

Johnson, Eric K., New York, N. Y. Operating means for elevator doors. 2,166,527; July 18.

Johnson, Harold L., Chicago, Ill. Combination business form and envelope. 2,166,439; July 18.

Johnston, Edward A., Chicago, and G. W. Engstrom, Riverside, Ill., assignors to International Harvester Company. Tractor. 2,166,411; July 18.

Jones, Abraham L., Logansport, Ind. Door hinge. 2,166,815; July 18.

Jones, Charles F., Burlingame, Calif. Camera. 2,166,440; July 18.

Jones, Earl P., assignor to Gate City Sash & Door Company, Fort Lauderdale, Fla. Louver construction. 2,166,441; July 18.

Jones, Ernest E., Melrose, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Snap fastener socket and installation thereof. 2,166,894; July 18.

Jones, Harold W., assignor to The Columbus Pharmacal Company, Columbus, Ohio. Colloidal aluminum hydroxide. 2,166,868; July 18.

Jones, Joseph W., and F. C. Reilly, New York, N. Y. Brake. 2,166,157; July 18.

Jubilee Manufacturing Co. (See Nielsen, Peter, assignor.)

Kagan, Benjamin M., Baltimore, Md. Apparatus for determining the specific gravity for liquid media and the protein content of blood. 2,166,842; July 18.

Kahn, Bertrand B., Cincinnati, assignor to The Estate Stove Company, Hamilton, Ohio. Cooking stove. 2,166,442; July 18.

Kahn, Benjamin, assignor to Kinetic Cycle Research Corporation, New York, N. Y. Masterless connecting rod mechanism for radial engines or pumps. 2,166,909; July 18.

Kalio, Inc. (See Verbeck, Arnold F., assignor.)

Kalischer, Milton, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,166,158; July 18.

Karelius, Carl A., Pasadena, Calif. Lathing. 2,166,443; July 18.

Karmazin, John, Huntington, Ind., assignor to General Motors Corporation, Dayton, Ohio. Making tubing for refrigerating apparatus. 2,166,109; July 18.

Karplus, Hans, Frankfort-on-the-Main, Germany, assignor to North American Rayon Corporation, Elizabethton, Tenn. Manufacture of artificial silk. 2,166,739; July 18.

Karplus, Hans, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to North American Rayon Corporation. Manufacture of artificial silk. 2,166,740; July 18.

Karplus, Hans, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to North American Rayon Corporation. Artificial silk. 2,166,741; July 18.

Katzman, Morris B. (See Cahn, F. J., and Katzman.)

Kaufman, Louis, Brooklyn, N. Y. Sewing machine. 2,166,760; July 18.

Kaufmann, John J., Elkins Park, assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa. Loom harness. 2,166,895; July 18.

Keegan, Peter E. (See Helgason, A., and Keegan.)

Kehl, Howard A., Detroit, Mich. Combination wrist watch. 2,166,687; July 18.

Kell, Ray D., Haddonfield, N. J., assignor to Radio Corporation of America. Television apparatus. 2,166,688; July 18.

Kepfer, Raymond J., Lakewood, and A. K. Telfer, Akron, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Zinc chloride. 2,166,253; July 18.

Kell, Ray D., Haddenfield, N. J., assignor to Radio Corporation of America, New York, N. Y. Television system. 2,166,214; July 18.

Keller, Rex E., Beverly Hills, Calif. Automatic transmission clutch. 2,166,357; July 18.

Kellner, Paul, New York, N. Y., assignor to American Machine & Foundry Company. Baker's machine for cutting and spreading the cut portions. 2,166,159; July 18.

Kennedy, Samuel J., and J. R. Pierson, Lynwood, Calif. Rotary adjustable-tension jar mechanism. 2,166,299; July 18.

Ketay, Morris F. (See Reichel, W. A., and Ketay.)

Keys, Grafton H. (See White, F. L., and Keyes, assignors.)

Kiesel, John S., assignor to Darling Valve and Manufacturing Company, Williamsport, Pa. Breakable connection for hydrants. 2,166,412; July 18.

Kimball, Marston H. (See Boyce, A. M., Chandler, and Kimball.)

Kinetic Cycle Research Corporation. (See Kahn, Benjamin, assignor.)

King, Edward P., Lansdowne, assignor to The Atlantic Refining Company, Philadelphia, Pa. Treatment of hydrocarbon oils. 2,166,160; July 18.

King, Lamar R., Schlater, assignor of one-half to W. M. Blain, Greenwood, Miss. Planter. 2,166,413; July 18.

Kingston Products Corporation. (See Douglas, Harry A., assignor.)

Kinninger, Arthur M. and C. A., Dayton, Ohio. Wedge for use with wall ties. 2,166,444; July 18.

Kinninger, Carl A. (See Kinninger, Arthur M. and C. A.)

Kirksey, Amos H., Los Angeles, Calif. Trailer dumping apparatus. 2,166,722; July 18.

Kitahara, Goro. (See Igarashi, I., and Kitahara.)

Kjellberg Elektroden & Maschinen G. m. b. H. (See Müller, Ludwig, assignor.)

Kleaver, Estelle B. (See Bettis, William I., assignor.)

Kleist, Herman W., assignor to Dole Refrigerating Company, Chicago, Ill. Cooling apparatus. 2,166,161; July 18.

Klingelnberg, W. Ferd., Sohne. (See Schicht, Heinrich, assignor.)

Knapp-Monarch Company. (See Smith, Howard A., assignor.)

Kneisley, Richard F., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Combination electric fuse and circuit extension connector. 2,166,254; July 18.

Knight, Ivan, Mayfield, Kans. Cutter bar attachment. 2,166,723; July 18.

Knight, William W., Evanston, assignor to Roth Rubber Company, Cicero, Ill. Rubber curing apparatus. 2,166,597; July 18.

Knoedler, Elmer L., and A. L. Preston, Moorestown, N. J., assignor to Continental Distilling Corporation, Philadelphia, Pa. Labeling machine. 2,166,497; July 18.

Kohl, William R., Glen View, Ill. Bag sealing machine. 2,166,761; July 18.

Kohler & Chase. (See Hutchinson, Fenton F., assignor.)

Komar, Joseph F., Youngstown, Ohio. Making spray nozzles. 2,166,300; July 18.

Konen, Harry, assignor to W. J. Baker Co., Newport, Ky. Venetian blind tape holder. 2,166,301; July 18.

Köstenberger, Franz, Vienna, Germany. Condiment dispenser. 2,166,302; July 18.

Krakauer, Samuel. (See Marcus, S. S., and Krakauer.)

Kress, S. H., and Company. (See Sibbert, Edward F., assignor.)

Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Apparatus for soldering and coating side seams of sheet metal containers. 2,166,598; July 18.

Kropp, William J., Wichita, Kans. Packing and insulating material. 2,166,926; July 18.

Kuenhold, Otto J., Shaker Heights, assignor to Monmouth Products Company, Cleveland, Ohio. Humidifying system. 2,166,414; July 18.

Kuhlke, Otto J., Akron, Ohio. Making and covering articles. 2,166,568; July 18.

Kunze, Willy, assignor to Atlas Werke Aktiengesellschaft, Bremen, Germany. Projecting means for submarine signaling apparatus. 2,166,162; July 18.

Kusel Dairy Equipment Co. (See Derleth, Clark, assignor.)

Kuyper, Peter H., assignor to Roscreen Company, Pella, Iowa. Venetian blind. 2,166,599; July 18.

La Bour, Harry E., Elkhart, Ind. Self-priming centrifugal pump. 2,166,358; July 18.

Lacey, Ernest G., East Kew, Victoria, Australia. Switching means. 2,166,498; July 18.

Laftman, Axel R. (See Booge, J. E., and Laftman.)

La Hodny, William, and P. Bertell, assignors to Standard Mirror Company, Buffalo, N. Y. Mirror. 2,166,303; July 18.

Lake, Francis W., and J. H. Wallace, Jr., Whittier, assignors, by mesne assignments, to Technical Oil Tool Corporation, Ltd., Los Angeles, Calif. Drift recorder. 2,166,472; July 18.

Lakatos, Emory, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Magnetostrictive device. 2,166,359; July 18.

Lambert, Homer T., St. Joseph, Mich. Volumetric control master cylinder. 2,166,742; July 18.

Lamson Company, The. (See Taylor, William J., assignor.)

Lamson Company, The. (See Taylor, William J., and R. J., assignors.)

Lange, William, Rice Lake, Wis. Latch. 2,166,499; July 18.

Langevin, Carl C., San Mateo, Calif., assignor to Guided Radio Corporation, New York, N. Y. Communication system. 2,166,529; July 18.

Langworthy, E. Phelps. (See Conley, William J., assignor.)

Larkin, Walter, Norristown, Pa., assignor to Fidelity Machine Company, Wilmington, Del. Knitted fabric. 2,166,166; July 18.

Larson, Carl H., Elkhart, Ind. Electromagnetic relay. 2,166,163; July 18.

Latimer-Goodwin Chemical Company, The. (See Hopkins, Carl P., assignor.)

Laurent, Milton P., assignor to W. K. M. Company, Incorporated, Houston, Tex. Valve-operating mechanism. 2,166,304; July 18.

Laury, Napoleon A., assignor to The Calco Chemical Co., Inc., Bound Brook, N. J. Alkali nitrites and chromates. 2,166,549; July 18.

Lazich, Branko, Edgewood, and P. K. Eckhardt, assignors to The Union Switch & Signal Company, Swissvale, Pa. Electrical relay. 2,166,910; July 18.

Lees, Robert E., and J. S. Wilson, Twin Rocks, Pa. Tire chain clamp. 2,166,869; July 18.

Legat, Robert C., New Britain, Conn. Bumper guard. 2,166,816; July 18.

Lehmberg, William H., Sturbridge, assignor to American Optical Company, Southbridge, Mass. Respirator. 2,166,164; July 18.

Lemmon, George N., Homewood, assignor to Southern States Equipment Company, Birmingham, Ala. Circuit interrupter. 2,166,782; July 18.

Lenth, Charles W. (See Du Puis, R. N., Lenth, and Segur.)

Lervad, Harald A., Askov, Vejen, Denmark. Weaver's loom. 2,166,415; July 18.

Lesage, Alfred, Schweinfurt, Germany. Making engine cylinders with an inner lining. 2,166,634; July 18.

Leupold, Ernst O., Hofheim in Taunus, and H. Vollmann, Frankfort-on-the-Main-Hochst, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Oxygen containing nitriles of the C_5-series and preparing them. 2,166,600; July 18.

Levoy, Louis G., Jr., Ballston Lake, and G. W. Garman, Scotia, N. Y., assignors to General Electric Company. Thyratron welding control. 2,166,305; July 18.

Levoy, Louis G., Jr., Ballston Lake, N. Y., assignor to General Electric Company. Electric valve circuit. 2,166,306; July 18.

Lewis, David, New York, N. Y. Bottom for bags. 2,166,360; July 18.

Libbey-Owens-Ford Glass Company. (See Drake, John L., assignor.)

Libbey-Owens-Ford Glass Company. (See Ford, George R., Jr., assignor.)

Libbey-Owens-Ford Glass Company. (See Hinsey, Robert S., assignor.)

Libbey-Owens-Ford Glass Company. (See Lowry, Clyde D., assignor.)

Libby, Lewis L., Newark, N. J. Connected collapsible twin tubes. 2,166,307; July 18.

Lidgerwood Manufacturing Company. (See Benson, Melvin B., assignor.)

Ligon, John H., Anna, Ill. Stepladder. 2,166,255; July 18.

Linderman, James E., Evanston, Ill., assignor to Champion Brake Corporation. Hand brake mechanism for railway cars. 2,166,256; July 18.

Linderman, Bert A., Detroit, Mich. Fluid operated pressure transmission device. 2,166,165; July 18.

Lindgren, Alexus C., Chicago, and C. R. Raney, Riverside, Ill., assignors to International Harvester Company. Thresher. 2,166,416; July 18.

Line, William K. (See Nichols, Keaton G., assignor.)

Linotype and Machinery Limited. (See Ellis, Herbert, assignor.)

Linstead, Reginald P. (See Heilbron, I. M., Irving, and Linstead.)

Little, David J., assignor to Southern Steel Company, San Antonio, Tex. Fuel gas apparatus. 2,166,911; July 18.

Little, David J., San Antonio, Tex., assignor to Southern Steel Company. Liquefied hydrocarbon gas storage and dispensing system. 2,166,912; July 18.

Little, David J., San Antonio, Tex., assignor to Southern Steel Company. Apparatus for storing and dispensing liquefied hydrocarbon gas. 2,166,913; July 18.

Little, David J., San Antonio, Tex., assignor to Southern Steel Company. Liquefied hydrocarbon gas storage and dispensing system. 2,166,914; July 18.

Little, David J., San Antonio, Tex., assignor to Southern Steel Company. Method of and apparatus for storing and dispensing liquefied gas. 2,166,915; July 18.

Livesay, Everett G., Miami, Fla. Concrete window trim and making. 2,166,870; July 18.

Lloyd, Ernest G., Los Angeles, Calif. Method of and means for forming unbreakable lenses. 2,166,215; July 18.

Locke, Albert R., Oak Park, Ill., assignor to Houde Engineering Corporation, Buffalo, N. Y. Automotive air conditioning system. 2,166,635; July 18.

Logan, Otis A., Kansas City, Mo. Fifth wheel assembly. 2,166,308; July 18.

Lombard, Herman G., Washington, D. C., assignor to A. H. Tinnerman, Cleveland, Ohio. Clip for mounting cables and like objects. 2,166,916; July 18.

Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Electric valve circuit. 2,166,309; July 18.

Lord, Harold W., Schenectady, N. Y., asignor to General Electric Company. Electric valve circuit. 2,166,310; July 18.

Lowe, Carl H., assignor to Self-Locking Carton Co., Chicago, Ill. Carton. 2,166,762; July 18.

Lowcke, Erwin E., assignor to Hydraulic Brake Company, Detroit, Mich. Hydraulic brake. 2,166,724; July 18.

Lowry, Clyde D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Sash and store front constructions. 2,166,361; July 18.

Luckenbach, John L., Jackson Heights, N. Y. Apparatus for separating precious metals from their ores. 2,166,167; July 18.

Luertzing, Paul R., Vineland, N. J. Method and apparatus for making glass articles. 2,166,871; July 18.

Lum, Ko Wah, and A. B. Vinogradoff, San Francisco, Calif. Wrapping machine. 2,166,473; July 18.

Lund, Harold, Minneapolis, Minn. Weedless bait. 2,166,311; July 18.

Lunney, Henry J., Los Angeles, Calif. Maternity support. 2,166,312; July 18.

Lyman, Arthur L., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Parasiticidal spray oil composition. 2,166,500; July 18.

Lyon, George A., Allenhurst, N. J. Wheel disk construction. 2,166,216; July 18.

Maatschappij voor Thermo-Chemie N. V. (See Gardner, Daniel, assignor.)

MacCordy, Charles A., assignor to Sanitary Metal Cap Corporation, Syracuse, N. Y. Making over-all bottle caps. 2,166,501; July 18.

MacMahon, James D., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Stable calcium hypochlorite composition. 2,166,362; July 18.

MacMahon, James D., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Stable calcium hypochlorite composition. 2,166,363; July 18.

Macomber, Harry P. (See Priest, D. E., and Macomber.)

Madson, Willard H., Linthicum Heights, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Titanium pigment and producing the same. 2,166,257; July 18.

Magnano Corporation. (See Magnano, S., and Abbott, assignors.)

Magnano, Sebastiano, Andover, Mass., and W. G. Abbott, Jr., Milford, N. H., assignors to Magnano Corporation, Lawrence, Mass. Textile apparatus. 2,166,843; July 18.

Maguire, Irwin L., Elwood, Victoria, Australia. Television system. 2,166,313; July 18.

Malcolm, Vincent T., assignor to The Chapman Valve Mfg. Co., Indian Orchard, Mass. Metal alloy. 2,166,844; July 18.

Mallory, P. R., & Co. (See Hensel, F. R., and Emmert, assignors.)

Mallory, P. R., & Co. (See Waters, Harry F., assignor.)

Mandery, Carl A., Sycamore, Ill. Salt shaker. 2,166,725; July 18.

Manning, Maxwell & Moore, Incorporated. (See Briscoe, J., and Corcoran, assignors.)

Manning, Willis L., Madison, Wis., assignor to Burgess Battery Company, Chicago, Ill. Silencer. 2,166,417; July 18.

Mantle Lamp Company, The. (See Baker, James S., assignor.)

Marcus, Samuel S., Lewisboro, and S. Krakauer, New York, N. Y. Wire knotting machine. 2,166,636; July 18.

Marks, William J. (See Polk, H. H., and Marks.)

Marlman, Ethel P., Las Animas, Colo., assignor to The Humane Fur Getter, Inc. Poison mixture for trap gun cartridges. 2,166,168; July 18.

Marti, Othmar K. (See Bohn, D. L., and Marti.)

Martignoni, Marino S., Baltimore, Md., assignor of one-half to O. L. Barrett, Marceline, Mo. Time controlled radio switch. 2,166,601; July 18.

Martin, Glenn L., Company, The. (See Overbeke, John W., assignor.)

Martin, Sterling T., Charleston, W. Va. Transference apparatus. 2,166,169; July 18.

Martin, Wilfred S., Norwood, assignor to The Procter & Gamble Company, Cincinnati, Ohio. Preparation of detergents. 2,166,314; July 18.

Martin, Wilfred S., assignor to The Procter & Gamble Company, Cincinnati, Ohio. Detergent and preparation thereof. 2,166,315; July 18.

Martin, William F., Amarillo, Tex. Calculating machine. 2,166,845; July 18.

Maschinenfabrik Augsburg Nuernberg A. G. (See Jagschitz, Konrad, assignor.)

Maseng, Olav. (See Allen, W. T., and Maseng.)

Maser, Harold T., Schenectady, N. Y., assignor to General Electric Company. Electric discharge device. 2,166,817; July 18.

Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric apparatus and circuits. 2,166,763; July 18.

Mathez, Paul. (See Petermann, Henri, assignor.)

Mathieson Alkali Works, Inc., The. (See MacMahon, James D., assignor.)

Mathieson Alkali Works, Inc. (See Vincent, George P., assignor.)

Matrat, Gabriel, Paris, France. Reversible top for camera stands. 2,166,258; July 18.

Matthies, William H., Hackensack, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Switching mechanism. 2,166,764; July 18.

Maxwell, William H. (See Ammen, F. D., and Maxwell.)

Mayer, Arthur, Maspeth, N. Y. Handbag. 2,166,217; July 18.

Mayers, Howard C., London, England. Coin-controlled device for regulating gas flow. 2,166,872; July 18.

McBain, William C., assignor to The Cold Metal Process Company, Youngstown, Ohio. Method of rolling. 2,166,418; July 18.

McBean, Douglas M., assignor to Beech-Nut Packing Company, Canajoharie, N. Y. Package and forming the same. 2,166,171; July 18.

McCaffrey, Marion P. (See Ruddock, William, assignor.)

McCalley, James B., assignor to Barry Automatic Trailer Inc., New York, N. Y. Automatic trailer construction. 2,166,846; July 18.

McClure, Hugh M., Kearney, Nebr. Ventilating window sash. 2,166,445; July 18.

McCormack, Harry, and G. J. Stockmann, assignors to North Shore Coke & Chemical Company, Chicago, Ill. Producing alkoxyl derivatives of nitro-aromatic compounds. 2,166,917; July 18.

McFeaters, Harry L., New Castle, Pa., assignor to Pennsylvania Engineering Works. Operating mechanism for tilting receptacles. 2,166,663; July 18.

McGill Manufacturing Company. (See Popp, R., and Carlson, assignors.)

McGrath, William L., St. Paul, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Refrigeration control system. 2,166,602; July 18.

McIlrath, Roy E., Wilmette, Ill. Carbon dioxide converter. 2,166,637; July 18.

McIntosh, James, Pittsburgh, Pa. Discharge guide. 2,166,593; July 18.

McLaughlin, F. L. (See Burke, James P., assignor.)

McLaughlin, Kenneth M. (See Seelen, H. R., and McLaughlin.)

McMullen, John, Buffalo, N. Y., and J. T. Gallagher, Chicago, Ill. Portable bulkhead. 2,166,918; July 18.

Martin, Herbert, assignor to J. Eberspacher, Esslingen-on-the-Neckar, Germany. Silencer. 2,166,670; July 18.

Mead, George A., assignor to The Ohio Brass Company, Mansfield, Ohio. Drill bit. 2,166,664; July 18.

Mead, Richard R., Queens Village, N. Y., assignor to Mergenthaler Linotype Company. Slug-casting machine. 2,166,170; July 18.

Mead, Richard R., Queens Village, N. Y., assignor to Mergenthaler Linotype Company. Typographical composing machine. 2,166,726; July 18.

Medwick, Maury P., Brooklyn, and Marvin Fox, New York, N. Y. Apparatus for applying linings to shoe soles. 2,166,765; July 18.

Mefford, Fred E., Colorado Springs, Colo. Hose supporter grip and attaching means therefor. 2,166,474; July 18.

Meissner, Gustave C. F. (See Ammann, E., and Meissner.)

Menzer, Anton, Brooklyn, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Temperature-compensated indicating instrument. 2,166,603; July 18.

Mergenthaler Linotype Company. (See Mead, Richard R., assignor.)

Metals & Controls Corporation. (See Peterson, Arthur W., assignor.)

Metrik, Simon. (See Engleman, Charles S., assignor.)

Metropolitan Device Corporation. (See Rypinski, A. B., and Bay, assignors.)

Meyer, Georg, Cologne-Mulheim, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Stable compositions comprising chlorinated substances. 2,166,604; July 18.

Meyer, Theodore F. W., Birmingham, assignor to Federal Mogul Corporation, Detroit, Mich. Shaft bearing. 2,166,259; July 18.

Mically, Emanuel. (See Rosenberg, P., and Mically.)

Micell, Salvatore, Booklyn, N. Y. Motor design sign with electric bulbs. 2,166,818; July 18.

Michel, Josef M., Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Treatment of metals. 2,166,365; July 18.

Michel, Josef M., Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Stabilizing alkali metal nitrate melts used in the heat treatment of metals. 2,166,364; July 18.

Miketta, Casimir A. (See Ammen, F. D., and Maxwell, assignors.)

Miller, Bert C., Montclair, N. J. Producing multilayer ribbon strips. 2,166,819; July 18.

Miller, Denver, Modoc Point, Oreg. Opening and closing mechanism for gates, doors, and the like. 2,166,743; July 18.

Miller, Joseph E., and P. L. Osweiler, Oak Park, Ill. Wire clamp. 2,166,847; July 18.

Mills, Herbert E., Detroit, Mich., assignor to Borg-Warner Corporation. Cabinet. 2,166,640; July 18.

Milmore, Oswald H., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Refining oils. 2,166,502; July 18.

Milmore, Oswald H., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Refining oils. 2,166,503; July 18.

Milwaukee Lace Paper Company. (See Hamilton, Kenneth C., assignor.)

Milwaukee Stamping Company. (See Otten, Benjamin A., assignor.)

Minneapolis-Honeywell Regulator Company. (See McGrath, William L., assignor.)

Mitchell, Donald, executor, et al. (See Mitchell, John E.)

Mitchell, John C. (See Spence, L. U., and Mitchell.)

Mitchell, John E., deceased, Dallas, Tex., J. E., Jr., O., and D. Mitchell, executors. Air exhausting and cotton cleaning machine. 2,166,925; July 18.

Mitchell, John E., Jr., executor, et al. (See Mitchell, John E.)

Mitchell, Lewis E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,166,569; July 18.

Mitchell, Lewis E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,166,689; July 18.

Mitchell, Orville, executor, et al. (See Mitchell, John E.)

Modine, Arthur B., Racine, Wis. Smoking pipe. 2,166,172; July 18.

Monmouth Products Company. (See Kuenhold, Otto J., assignor.)

Monowatt Electric Corporation, The. (See Benander, George B., assignor.)

Monroe, Rollo O. (See Goff, L. O., and Monroe.)

Montgomery, Harley A., Detroit, Mich. Drawing metals. 2,166,173; July 18.

Montrose-Oster, L. E. W., Carlsbad, Czechoslovakia, assignor of one-half to Pollopas Patents, Ltd., London, England. Carriage for vehicles moved principally in one direction. 2,166,456; July 18.

Monzingo, Willie C., near Abilene, Tex. Air chuck. 2,166,874; July 18.

Moody, Maxey D., Sr. (See Barwick, Attys B., assignor.)

Moore, Harold, and H. E. Charlton, London, England. Driving mechanism. 2,166,873; July 18.

Moore, Lee C., & Company. (See Henry, Charles L., assignor.)

Morgan, Porter S., assignor, by mesne assignments, to Bohleber & Ledbetter, New York, N. Y. Fluid-handling apparatus. 2,166,530; July 18.

Morgan, Porter S., assignor, by mesne assignments, to Bohleber & Ledbetter, New York, N. Y. Operating registers for fluid dispensing systems. 2,166,531; July 18.

Morrell, Jacque C., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,166,820; July 18.

Morrison, William A., Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J. Muffling device. 2,166,218; July 18.

Mosher, Ira S., East Orange, N. J. Doughnut cutter. 2,166,260; July 18.

Moss, William H., London, England, assignor to Celanese Corporation of America. Coating and product thereof. 2,166,261; July 18.

Motor Terminals, Inc. (See Fitch, Benjamin F., assignor.)

Mott, Bessie C., Kilgore, Tex. Surgical garment. 2,166,727; July 18.

Müller, Ludwig, assignor to the firm Kjellberg Elektroden & Maschinen G. m. b. H., Finsterwalde, Germany. Arc welding apparatus with coated electrodes. 2,166,638; July 18.

Munk, Emil O., Chicago, Ill. Can construction. 2,166,783; July 18.

Munro, David B. (See Munro, Donald S. and D. B.)

Munro, Donald S. and D. B., Westmont, Quebec, Canada. Stock car. 2,166,475; July 18.

Muros, Joseph, Cambridge, assignor to Gillette Safety Razor Company, Boston, Mass. Shaving implement. 2,166,605; July 18.

Murray Corporation of America, The. (See Haberstump, Alfred H., assignor.)

Murray Corporation of America, The. (See Vehko, James, assignor.)

Myles, Robert C., Jr. (See Perera, G., and Myles.)

Naden, James H., Hendon, London, assignor to Precision Wireless Devices Limited, London, England. Controlling wireless receiving apparatus. 2,166,532; July 18.

Najera, Carlos L. (See Brenneis, L., Najera, and Schuck.)

Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)

National Aniline & Chemical Company. (See Flett, Lawrence H., assignor.)

National Cash Register Company, The. (See Breitling, Ernst, assignor.)

National Folding Box Company. (See Carruth, Herman A., assignor.)

National Pectin Products Company. (See Becker, Paul K., assignor.)

Neckerman, Wilson R., Pittsburgh, Pa. Lock. 2,166,690; July 18.

Neils, Raymond E. (See Flynn, T. P., and Neils.)

Neilson, Howard R., Detroit, Mich. Material for cleaning and preparing metal for paint. 2,166,476; July 18.

New England Butt Company. (See Barningham, Charles S., assignor.)

New England Theatres, Inc. (See Bassin, Charles S., assignor.)

New Jersey Machine Corporation. (See von Hofe, G. W., and Hammer, assignors.)

Niagara Blower Company. (See Deverall, Charles N., assignor.)

Nichols, Arthur S., Oak Park, assignor to The Illinois Clay Products Company, Joliet, Ill. Heat treatment of castings and the like. 2,166,919; July 18.

Nichols, Keaton G., assignor of one-half to W. K. Line, Butte, Mont. Ornamental box. 2,166,504; July 18.

Nielsen, Peter, assignor to Jubilee Manufacturing Co., Omaha, Nebr. Traffic warning device. 2,166,821; July 18.

Nissen, Hans G., Berlin-Steglitz, Germany. Crankshaft arrangement for internal combustion engines. 2,166,896; July 18.

Noblitt-Sparks Industries, Inc. (See Silva, A. D., and Irwin, assignors.)

Norris, Edward O., Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y. Means and method of producing metallic screens. 2,166,366; July 18.

Norris, Edward O., Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y. Production of metallic screens. 2,166,367; July 18.

Norris, Edward O., Inc. (See Norris, Edward O., assignor.)

North and Judd Manufacturing Company. (See Freysinger, John B., assignor.)

North and Judd Manufacturing Company. (See Gency, William, assignor.)

North American Rayon Corporation. (See Karplus, Hans, assignor.)

North Shore Coke & Chemical Company. (See McCormack, H., and Stockmann, assignors.)

Noxon, Paul A., Bergenfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. Integrating phase correction mechanism. 2,166,505; July 18.

Nycum, Homer C. (See Berndt, A. A., and Nycum.)

Oettel, Erwin, Zeitz, Germany. Suspension device. 2,166,533; July 18.
O'Hagan, Bernard E., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,166,316; July 18.
Ohio Brass Company, The. (See Chandler, Homer P., assignor.)
Ohio Brass Company, The. (See Mead, George A., assignor.)
Oil Devices. (See Breese, James L., assignor.)
Older, Clifford, Wilmette, Ill. Expansion joint for concrete pavements or the like. 2,166,219; July 18.
Older, Clifford, Wilmette, Ill. Concrete road joint. 2,166,220; July 18.
Olin, Robert R. (See Reichard, W. E., and Olin.)
O'Neill, John H., Arlington, Va. Microphotographic apparatus. 2,166,419; July 18.
Opyt, John, Chicago, Ill. Auxiliary calked sole for shoes. 2,166,317; July 18.
Osweiler, Paul L. (See Miller, J. E., and Osweiler.)
Otten, Benjamin A., Wauwatosa, assignor to Milwaukee Stamping Company, West Allis, Wis. Luggage carrier. 2,166,262; July 18.
Outboard Marine & Manufacturing Company. (See Conover, Warren M., assignor.)
Overbeke, John W., Annesle, assignor to The Glenn L. Martin Company, Baltimore, Md. Disk type valve. 2,166,875; July 18.
Owens, Harvey M., Leominster, Mass. Display card. 2,166,766; July 18.
Oxford Varnish Corporation. (See Gundlach, Howard F., assignor.)
Packard Motor Car Company. (See Best, Frank C., assignor.)
Page, Charles E., Brooklyn, N. Y. Beverage device. 2,166,728; July 18.
Panissidi, Attilio, Woodhaven, N. Y. Treating lens cleaning cloth. 2,166,570; July 18.
Paré, Victor T., Collingswood, N. J., assignor to Radio Corporation of America. Tuning control system for radio receivers. 2,166,691; July 18.
Parker, Glenn H., Royal Oak, assignor to Chrysler Corporation, Highland Park, Mich. Spring suspension and mounting. 2,166,822; July 18.
Parker, Laurie F., Noroton, Conn. Apparatus for manufacturing compressed sanitary pads. 2,166,665; July 18.
Parker Wire Goods Company. (See Priest, D. E., and Macomber, assignors.)
Parks, Paul B., Oak Park, and W. M. Smith, assignors to Vapor Car Heating Company, Inc., Chicago, Ill. Temperature modulating system. 2,166,263; July 18.
Parsons, John A., Bainbridge, assignor to American Plastics Corporation, New York, N. Y. Making shaped casein plastics. 2,166,550; July 18.
Patterson, Gordon D., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Producing pigment titanates. 2,166,221; July 18.
Pavlecka, Vladimir H. (See Atwood, J. L., and Pavlecka.)
Peck, Robert L., Jr., Townley, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Coin collector apparatus. 2,166,639; July 18.
Penick, Arthur J. and K. T., and R. F. Davis, Houston, Tex.; said Davis assignor to A. J. and K. T. Penick. Suction line connection for slush pumps. 2,166,836; July 18.
Penick, Kirby T. (See Penick, Arthur J. and K. T., and Davis, assignors.)
Pennsylvania Engineering Works. (See McFeaters, Harry L., assignor.)
People of the United States of America, Dedicated to the free use of the. (See Flynn, T. P., and Neils.)
People of the United States of America, Dedicated to the free use of the. (See Flynn, T. P., and Neils, assignors.)
Perera, Guido, and R. C. Myles, Jr., New York, N. Y. Mounting frame for photographs and the like. 2,166,641; July 18.
Perron, Adrian, Detroit, Mich. Independent wheel suspension for automobiles. 2,166,368; July 18.
Perry, Charles G. (See Webster, Georgia E. and R. H.)
Perry, William R., assignor to Reeves Pulley Company, Columbus, Ind. Photoelectric control of variable speed mechanism. 2,166,551; July 18.
Persson, Eric S., Malmo, Sweden. Locking and tightening means. 2,166,318; July 18.
Pesarese, Fritz, assignor to Achslager-Syndikat, Berlin, Germany. Axle lubricator. 2,166,606; July 18.
Peterkin, Albert G., Bryn Mawr, Pa., assignor to Houdry Process Corporation, Dover, Del. Preparation of charge. 2,166,176; July 18.
Peterkin, Albert G., Bryn Mawr, Pa., assignor to Houdry Process Corporation, Dover, Del. Preparation of hydrocarbons for conversion. 2,166,177; July 18.
Pétermann, Henri, Tavannes, Switzerland, assignor of one-half to P. Mathez, Woodside, Long Island, N. Y. Roller skate. 2,166,767; July 18.
Petersen, Thorvald, assignor, by mesne assignments, to Security-Peoples Trust Company, Erie, Pa. Solid screw cutting die. 2,166,369; July 18.
Peterson, Arthur W., North Attleboro, assignor to Metals & Controls Corporation, Attleboro, Mass. Alloy. 2,166,768; July 18.
Petrolite Corporation. (See De Groote, Melvin, assignor.)
Pfaudler Co., The. (See Schanck, William D., assignor.)
Philipp, Lawrence A., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,166,506; July 18.
Philipp, Lawrence A., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,166,908; July 18.
Pierce Renewable Fuses, Inc. (See Popp, Louis R., assignor.)
Pierson, James R. (See Kennedy, S. J., and Pierson.)
Piper, James J., Spokane, Wash. Fire alarm. 2,166,264; July 18.
Platinum Products Corp. (See Schmitt, George P., assignor.)
Pocock, Paul C., Marion, and V. S. Shaw, Mount Gilead, Ohio, assignors to The Hydraulic Press Corp., Inc., Wilmington, Del. Hydraulic press with variable retraction for platens. 2,166,319; July 18.
Polk, Harry H., and W. J. Marks, Des Moines, Iowa. Combination wheel vamp and wheel jack. 2,166,477; July 18.
Pollopas Patents, Ltd. (See Montrose-Oster, Louis E. W., assignor.)
Pommer, Erwin, Vienna, Austria. Device for applying and attaching tear-off caps to bottles. 2,166,784; July 18.
Popp, Louis R., assignor to Pierce Renewable Fuses, Inc., Buffalo, N. Y. Fuse. 2,166,174; July 18.
Popp, Rudolf, and M. C. Carlton, assignors to McGill Manufacturing Company, Valparaiso, Ind. Multiple circuit switch. 2,166,607; July 18.
Porsche, F. Dr. ing. h. c., K.-G. (See Rabe, Karl, assignor.)
Porter, William A., Red Hill, Brisbane, Queensland, Australia. Construction of pipes and the like of concrete or other cementitious material. 2,166,175; July 18.
Posatsky, Bohdan, Woodside, Long Island, N. Y. Adjustable holder for roll material. 2,166,320; July 18.
Postlewaite, William R., assignor to Standard Oil Company of California, San Francisco, Calif. Pipe feeding and coupling device. 2,166,608; July 18.
Pott, Alfred, Essen-Ruhr, Germany. Producing semicoke or coke from carbonizable solid fuel material. 2,166,321; July 18.
Poux, Noel J., Meadville, Pa. Slider for slide fasteners. 2,166,905; July 18.
Power Patents Company. (See Anderson, Thomas, assignor.)
Precision Wireless Devices Limited. (See Naden, James H., assignor.)
Prescott, Ralph F. (See Britton, J. W., Prescott, and Dosser.)
Preston, Alfred L. (See Knoedler, E. L., and Preston.)
Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,166,178; July 18.
Priest, Dwight E., and H. P. Macomber, assignor to Parker Wire Goods Company, Worcester, Mass. Blade holding means for hacksaws and the like. 2,166,446; July 18.
Procter & Gamble Company, The. (See Martin, Wilfred S., assignor.)
Product Development and Engineering Corporation. (See Trofimov, Lev A., assignor.)
Prudden, Theodore M., Hingham Center, Mass. Panel damping structure. 2,166,848; July 18.
Purdy, Everett M., New Canaan, Conn., assignor to Eisemann Magneto Corporation, New York, N. Y. Fuel injection pump. 2,166,876; July 18.
Puritan Compressed Gas Corporation. (See Adolphsen, Albert W., assignor.)
Purity Paper Products, Inc. (See Simmons, Paul R., assignor.)
Putnam, Joseph F., Berkeley, and E. E. Edwards, Walnut Creek, assignors to Standard Oil Company of California, San Francisco, Calif. Liquid flow control apparatus. 2,166,370; July 18.
Putnam, Joseph F., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Pipe feed device. 2,166,609; July 18.
Queen Anne Candy Company. (See Sullivan, Eugene E., assignor.)
Quinio, Louis, Tarentum, Pa. Gauge for and method of waving hair. 2,166,558; July 18.
Rabe, Karl, Stuttgart, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany. Spring mechanism for railway vehicles. 2,166,769; July 18.
Radio Corporation of America. (See Anderson, L. E., and Harding, assignors.)
Radio Corporation of America. (See Baker, Judd O., assignor.)
Radio Corporation of America. (See Barton, Loy E., assignor.)
Radio Corporation of America. (See Bedford, Alda V., assignor.)
Radio Corporation of America. (See Beers, George L., assignor.)
Radio Corporation of America. (See Bokovoy, Samuel A., assignor.)
Radio Corporation of America. (See Carter, Philip S., assignor.)
Radio Corporation of America. (See Creager, Frederick L., assignor.)
Radio Corporation of America. (See Dimmick, Glenn L., assignor.)

Radio Corporation of America. (See Dowsett, H. M., and Cadzow, assignors.)
Radio Corporation of America. (See Finch, James L., assignor.)
Radio Corporation of America. (See Henderson, R. A., and Hauck, assignors.)
Radio Corporation of America. (See Kell, Ray D., assignor.)
Radio Corporation of America. (See Paré, Victor T., assignor.)
Radio Corporation of America. (See Riddle, James M., Jr., assignor.)
Radio Corporation of America. (See Seelen, H. R., and McLaughlin, assignors.)
Radio Corporation of America. (See Selby, Eugene O., assignor.)
Radio Corporation of America. (See Shore, Henry, assignor.)
Railroad Accessories Corporation. (See Hull, S. P., and Corcoran, assignors.)
Ranco Incorporated. (See Raney, Estel C., assignor.)
Raney, Clemma R. (See Lindgren, A. C., and Raney.)
Raney, Estel C., assignor to Ranco Incorporated, Columbus, Ohio. Refrigerator control switch. 2,166,322; July 18.
Raney, Estel C., assignor to Ranco Incorporated, Columbus, Ohio. Control apparatus. 2,166,323; July 18.
Ranko, Leonard A., Bronx, and M. Feldman, New York, N. Y. Carton. 2,166,222; July 18.
Ray, William, Chicago, Ill. Drill fixture. 2,166,692; July 18.
Rechtschaffen, Louis, New York, N. Y. Folded shirt and band holder therefor to eliminate pins. 2,166,642; July 18.
Red River Refining Company. (See Schulze, John E., assignor.)
Reed, Ira F., Johnstown, Pa. Building construction. 2,166,371; July 18.
Reed, Robert W., Chicago, Ill. Theftproof milk bottle cabinet. 2,166,729; July 18.
Reeves Pulley Company. (See Perry, William R., assignor.)
Reflection Corporation of America. (See Register, Everett L., assignor.)
Register, Everett L., assignor to Reflection Corporation of America, Springfield, Ill. Sign. 2,166,571; July 18.
Reichard, Willis E., Elyria, and R. R. Olin, Akron, Ohio. Rubber composition and process. 2,166,324; July 18.
Reichel, Wladimir A., Philadelphia, Pa., and M. F. Ketay, Brooklyn, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind. Remote multiple indicator. 2,166,610; July 18.
Reichstein, Tadeus, Zurich, Switzerland, assignor, by mesne assignments, to Roche-Organon, Inc., Nutley, N. J. Cortical hormones. 2,166,877; July 18.
Reilly, Frank C. (See Jones, J. W., and Reilly.)
Rein, Herbert, Leipzig, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Treatment of cellulosic material. 2,166,325; July 18.
Reiner, Herman, New York, N. Y. Portable acetylene generator. 2,166,552; July 18.
Rennekamp, Clarence J., Silverton, Ohio, assignor to The Auto-Vehicle Parts Company, Newport, Ky. Upholstery clip. 2,166,553; July 18.
Research Corporation. (See Buchman, Edwin R., assignor.)
Ressinger, Paul M., Chicago, Ill. Folding packaging receptacle. 2,166,265; July 18.
Revere Copper and Brass Incorporated. (See Bennett, Irving T., assignor.)
Reynolds Metals Company. (See Whitfield, M. G., and Sheshunoff, assignors.)
Riblet, Royal N., Spokane, assignor of one-half to H. Hurlow, Jr., Tacoma, Wash. Drill bit. 2,166,478; July 18.
Rice, Julia D. (See Shipley, B. C., and Rice.)
Richard, Clement C., Bloomfield Hills, assignor to Allied Products Corporation, Detroit, Mich. Spring retainer. 2,166,559; July 18.
Richards, Harry A. (See Varley, Thomas W., assignor.)
Riddle, James M., Jr., West Collingswood, N. J., assignor to Radio Corporation of America. Selectivity control system. 2,166,693; July 18.
Riesz, Robert R., Mount Vernon, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Damping vibratory members. 2,166,326; July 18.
Robertson, E. Cameron, Oklahoma City, Okla. Clothes hanging apparatus. 2,166,771; July 18.
Robertson, Edwin A., Detroit, Mich., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Ignition manifold cable. 2,166,420; July 18.
Roblin, Richard O., Jr., Old Greenwich, and I. Hechenbleikner, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y. 1-Naphthaleneacetic acid. 2,166,554; July 18.
Roche-Organon, Inc. (See Reichstein, Tadeus, assignor.)
Rodriguez, Joaquin M., Yonkers, N. Y. Photographic enlarging easel. 2,166,878; July 18.
Roeder, George E., Washington, D. C. Formula-finding device. 2,166,372; July 18.
Röhm & Haas Company. (See Spence, L. U., and Mitchell, assignors.)
Rolan, Andrew A., Detroit, Mich. Sheeet metal snap hook. 2,166,666; July 18.
Roller Bearing Company of America. (See Barr, Victor L., assignor.)
Rolscreen Company. (See Kuyper, Peter H., assignor.)
Roman, Paul, White Plains, and R. Balute, New York, N. Y.; said Baluta assignor of two-tenths to said Roman. Control system and apparatus. 2,166,194; July 18.
Romano, Charles. (See Schmid, Frederick, assignor.)
Rosen, Herman L. (See Higgins, L. J., and Rosen.)
Rosenberg, Philip, and E. Mically, assignors to Universal Fixture Corporation, New York, N. Y. Table construction. 2,166,195; July 18.
Rosenberg, Philip, assignor to Universal Fixture Corporation, New York, N. Y. Table construction. 2,166,196; July 18.
Rosenfeld, Calvert S., Darby, Pa. Right and left opening door and hanger structure. 2,166,534; July 18.
Rosenlöcher, Otto, Berlin-Spandau, Germany, assignor to General Electric Company. Elastic fluid turbine nozzle. 2,166,823; July 18.
Roth Rubber Company. (See Knight, William W., assignor.)
Rowe, Raymond N., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Circuit breaker. 2,166,555; July 18.
Rowlett, Frank B. (See Friedman, W. F., and Rowlett.)
Ruben, Samuel, New Rochelle, N. Y. Film maintaining electrolyte. 2,166,179; July 18.
Ruben, Samuel, New Rochelle, N. Y. Electrolytic condenser. 2,166,180; July 18.
Ruddock, William, South Pasadena, assignor of one-half to M. P. McCaffrey, Los Angeles, Calif. Tag-line device. 2,166,479; July 18.
Ruegg, Rudolf. (See Felix, F., and Ruegg.)
Runaldue, Lewis R., Pittsfield, Mass., assignor to General Electric Company. High temperature pyrometer. 2,166,824; July 18.
Ruppenthal, Norman P., Detroit, Mich., assignor to General Conveyors Corporation. Belt conveyer. 2,166,447; July 18.
Rypinski, Albert B., Laurelton, N. Y., and C. A. Bay, Morristown, N. J., assignors to Metropolitan Device Corporation. Relay construction. 2,166,327; July 18.
St. John, Bay. (See Dayton, Max E., assignor.)
Salfisberg, Leroy L., South Orange, assignor to Ivers-Lee Company, Newark, N. J. Fluid package forming system. 2,166,643; July 18.
Salsas-Serra, Francisco, Paris, France. Atomizer for liquids. 2,166,772; July 18.
Salzberg, Paul L. (See Bousquet, E. W., and Salzberg.)
Salzberg, Paul L., Wilmington, Del., and C. F. A. White, Parlin, N. J., assignors to Du Pont Film Manufacturing Corporation, New York, N. Y. Color photography. 2,166,181; July 18.
Sanitary Metal Cap Corporation. (See MacCordy, Charles A., assignor.)
Särenholm, Einar, and H. Warrol, Eskilstuna, Sweden. Lock for doors and the like. 2,166,535; July 18.
Saul, George N., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signaling system. 2,166,536; July 18.
Saurer, Curt, assignor to The Firestone Tire & Rubber Company, Akron, Ohio. Flexible coupling. 2,166,376; July 18.
Schacht & Westerich. (See Ammann, E., and Meissner, assignor.)
Schanck, William D., assignor to The Pfaudler Co., Rochester, N. Y. Relief valve. 2,166,730; July 18.
Scharffenberg, Jean H. (See Bailey, C. W., and Scharffenberg.)
Schaub, Jacob, Westfield, N. J., assignor to The Best Foods, Inc., New York, N. Y. Working and kneading apparatus. 2,166,197; July 18.
Schencke, Karl. (See Heinisch, P., and Schencke.)
Schermerhorn, Anna M. (See Schermerhorn, Francis D., assignor.)
Schermerhorn, Francis D., assignor of one-half to A. M. Schermerhorn, Omaha, Nebr. Bedpan. 2,166,480; July 18.
Schicht, Heinrich, Huckeswagen, assignor to the firm W. Ferd. Klingelnberg Sohne, Remscheid-Berghausen, Germany. Method of and apparatus for hardening gears. 2,166,731; July 18.
Schmalz, William F., Rockville, assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn. Ornamented article and making. 2,166,879; July 18.
Schmelzer, Anton C., assignor to M. Schmelzer, Cleveland, Ohio. Freezing container for refrigerators. 2,166,560; July 18.
Schmelzer, Mary. (See Schmelzer, Anton C., assignor.)
Schmid, Frederick, assignor of fifty per cent to C. Romano, Philadelphia, Pa. Razor honing apparatus. 2,166,773; July 18.
Schmidt, August, Jr., Niskayuna, N. Y., assignor to General Electric Company. Electric valve converting system. 2,166,825; July 18.
Schmidt, Charles F., Jeffersontown, Ky. Potato planter. 2,166,732; July 18.
Schmidt, Karl, U. S. Navy. Load strip for airplane wing and control surface covers. 2,166,182; July 18.
Schmitt, George P., assignor to Platinum Products Corp., New York, N. Y. Lighter. 2,166,266; July 18.
Schmitz, Adolf. (See Feldt, A., Schöllkopf, and Schmitz.)
Schöllkopf, Karl. (See Feldt, A., Schöllkopf, and Schmitz.)

Schröter, Rudolf, Leverkusen-I. G. Werk, and W. Becker, Cologne-Mulheim, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. High-molecular sulphur-containing plastics. 2,166,507; July 18.

Schuchardt, Hans, Berlin, assignor to Askania-Werke A. G., Germany. Flight attitude indicator. 2,166,920; July 18.

Schuck, John F. (See Brenneis, L., Najera, and Schuck.)

Schuh, Heinrich J., Zwickau, and W. Boxan, Chemnitz, assignors to Auto Union Aktiengesellschaft, Chemnitz, Germany. Springing arrangement for vehicles. 2,166,880; July 18.

Schuknecht, Walter C., and G. N. Jagemann, assignors to Eastman Manufacturing Company, Manitowoc, Wis. Hose protector. 2,166,448; July 18.

Schultz, Edward H., assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Straightening tool. 2,166,373; July 18.

Schulze, John E., assignor, by mesne assignments, to Red River Refining Company, Chicago, Ill. Apparatus for distilling petroleum oils. 2,166,374; July 18.

Schwarze, Paul, St. Gallen, Switzerland. Heat-exchanging structure and its constructional elements. 2,166,375; July 18.

Schwarzkopf, Adolf, Miami Beach, assignor of one-third to W. F. A. Buehmer, Miami, Fla. Egg testing device. 2,166,706; July 18.

Schweller, Sylvester M., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,166,707; July 18.

Scott, Bernard H., Glendale, assignor of one-half to A. W. Elliott, Los Angeles, Calif. Pump. 2,166,612; July 18.

Scott & Fetzger Company. (See Scott, George H., assignor.)

Scott, George H., Lakewood, assignor to The Scott & Fetzer Company, Cleveland, Ohio. Suction cleaner headlight. 2,166,267; July 18.

Scribner, William L., assignor to The Timken Roller Bearing Company, Canton, Ohio. Taper roller bearing. 2,166,377; July 18.

Sease, Virgil B. (See Weber, J. R., and Sease.)

Secretary of Agriculture of the United States of America, Henry A Wallace, and his successors in office. (See Gaus, George E., assignor.)

Security-Peoples Trust Company. (See Petersen, Thorvald, assignor.)

Seelen, Harry R., South Orange, and K. M. McLaughlin, Arlington, N. J., assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electron discharge device. 2,166,744; July 18.

Segur, John B. (See Du Puls, R. N., Lenth, and Segur.)

Selby, Eugene O., Camden, N. J., assignor to Radio Corporation of America. Noise reduction system. 2,166,694; July 18.

Self-Locking Carton Company. (See Lowe, Carl H., assignor.)

Semon, Waldo L., Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Antioxidant. 2,166,223; July 18.

Severin, Carl E., assignor of one-half to F. Jensen, Rockford, Ill. Method and apparatus for cleaning metal parts. 2,166,644; July 18.

Sexton, Wilfred A., Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited. Chemical compounds. 2,166,198; July 18.

Shapleigh, James H., assignor to Hercules Powder Company, Wilmington, Del. Synthesis of ammonia from its elements. 2,166,611; July 18.

Sharp, John H., et al. (See Wilsey, Irven H., assignor.)

Sharpe, Louis, Chicago, Ill. Basin wrench. 2,166,449; July 18.

Shaw, Victor S. (See Pocock, P. C., and Shaw.)

Shaw, William H., Mimico, Ontario, Canada, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Tobacco pouch. 2,166,224; July 18.

Shawinigan Chemicals Limited. (See Blaikie, K. G., and Crozier, assignors.)

Shell Development Company. (See Allen, Clyve, assignor.)

Shell Development Company. (See Deanesly, Richard M., assignor.)

Shell Development Company. (See Milmore, Oswald H., assignor.)

Shepherd, Noble N., Detroit, Mich., assignor to Carboloy Company, Inc. Chip controller and breaker. 2,166,826; July 18.

Sheshunoff, Victor. (See Whitfield, M. G., and Sheshunoff.)

Shipley, Byron C., Lawrence, Kans., and J. D. Rice, Kansas City, Mo. Holding and feeding device for "stenotype" notes. 2,166,508; July 18.

Shoemaker, Bernard M., New York, N. Y. Tobacco pipe. 2,166,537; July 18.

Shoemaker, Guy T., Kansas City, Mo., assignor to The Babcock & Wilcox Company, Newark, N. J. Furnace construction and operation. 2,166,199; July 18.

Shoemaker, Richard W., Woodbury, assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Pump-type oiler. 2,166,645; July 18.

Shore, Henry, Brooklyn, N. Y., assignor to Radio Corporation of America. Frequency doubler. 2,166,538; July 18.

Sibbert, Edward F., Brooklyn, assignor to S. H. Kress and Company, New York, N. Y. Lighting fixture. 2,166,646; July 18.

Side, Frederick W., assignor to The Brown Instrument Company, Philadelphia, Pa. Flow meter. 2,166,378; July 18.

Signaigo, Frank K., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Hydrogenation of aliphatic dinitriles. 2,166,183; July 18.

Silva, Albert D., and B. H. Irwin, assignors to Noblitt-Sparks Industries, Inc., Columbus, Ind. Transformer. 2,166,613; July 18.

Simmons, Paul R., Logansport, Ind., assignor to Purity Paper Products, Inc. Apparatus for forming coated paper plates. 2,166,268; July 18.

Skagerberg, Rutcher, St. Paul, Minn., assignor to The Brown Instrument Company, Philadelphia, Pa. Drier. 2,166,379; July 18.

Slade, Walter C., Providence, R. I., assignor to Fuel Research Development Corporation, Boston, Mass. Oil-feeding device for gas generators. 2,166,849; July 18.

Slingerland, Henry H., River Forest, Ill. Snare drum. 2,166,733; July 18.

Smalley, Frazey B., Toledo, Ohio. Adaptable mounting for prime movers to act on ground wheels. 2,166,450; July 18.

Smith, Horace S. (See Bancroft, Howard L., assignor.)

Smith, Howard A., assignor to Knapp-Monarch Company, St. Louis, Mo. Insulating base for an electric appliance. 2,166,451; July 18.

Smith, John C., assignor to Solar Laboratories, Beaver, Pa. Apparatus for stencil decorating. 2,166,269; July 18.

Smith, Phillip H. (See Cushman, R. A., Smith, and Specht.)

Smith, Ralph E., assignor to The Gallon Metallic Vault Company, Galion, Ohio. Split drive dual control. 2,166,270; July 18.

Smith, Robert H., Milwaukee, Wis. Heating system. 2,166,509; July 18.

Smith, William M. (See Parks, P. B., and Smith.)

Snyder, Frederick T., Brookline, assignor to Fuel Research Development Corporation, Boston, Mass. Fuel-feeding apparatus. 2,166,850; July 18.

Societe de Produits Chimiques des Terres Rares. (See Blumenfeld, Joseph, assignor.)

Society of Chemical Industry in Basle. (See Felix, F., and Ruegg, assignors.)

Solar Laboratoris. (See Smith, John C., assignor.)

Soller, Walter, assignor of one-half to W. H. Woodin, Jr., Tucson, Ariz. Balanced electron tube amplifier. 2,166,184; July 18.

Sonneborn, L. Sons, Inc. (See Blumer, Manuel, assignor.)

South Bend Bait Company. (See Howarth, David, assignor.)

Southern States Equipment Company. (See Lemmon, George N., assignor.)

Southern Steel Company. (See Little, David J., assignor.)

Southern Steel Company. (See White, Loyd J., assignor.)

Spatz, Benjamin B., New York, N. Y. Raincoat sleeve. 2,166,328; July 18.

Specht, Malcolm A. (See Cushman, R. A., Smith, and Specht.)

Spence, Le Roy U., Cheltenham, and J. C. Mitchell, assignors to Röhm & Haas Company, Philadelphia, Pa. Conversion of maleic acid to maleic anhydride. 2,166,556; July 18.

Spiegl, Ellis H., Salinas, Calif. Lettuce-handling apparatus. 2,166,561; July 18.

Spiral Binding Company. (See Catini, Vincenzo, assignor.)

Square D Company. (See Allen, W. T., and Maseng, assignors.)

Stack, John D., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif. Monitoring means for sound recorders. 2,166,185; July 18.

Stack, John D., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif. Exciter light for sound recorders. 2,166,186; July 18.

Stacy, John D., Pittsfield, Mass., assignor to General Electric Company. Capacitor circuit. 2,166,827; July 18.

Staley, Russell U., Portland, Oreg. Umbrella handle. 2,166,562; July 18.

Stancliffe Free-Wheeling Limited. (See Warwick, Arthur J., assignor.)

Standard Mailing Machines Company. (See Storck, Frederick W., assignor.)

Standard Mirror Company. (See La Hodny, W., and Bertell, assignors.)

Standard Oil Company of California. (See Lyman, Arthur L., assignor.)

Standard Oil Company of California. (See Postlewaite, William R., assignor.)

Standard Oil Company of California. (See Putnam, Joseph F., assignor.)

Standard Oil Company of California. (See Putnam, J. F., and Edwards, assignors.)

Standard Oil Development Company. (See Cross, Thomas, Jr., assignor.)

Stator Corporation. (See Whitney, Lyman F., assignor.)

Stator Corporation. (See Whitney, William E., assignor.)

Staudt, Anna R. (See Staudt, Carl E., assignor.)

Staudt, Carl E., Indianapolis, Ind., assignor, by mesne assignments, to said C. E. Staudt and A. R. Staudt, joint owners with the right of survivorship. Articulated display device. 2,166,572; July 18.

Steel Heddle Manufacturing Company. (See Kaufmann, John J., assignor.)

Stewart Bros. Inc. (See Bailey, C. W., and Scharffenberg, assignors.)

Stivender, Paul M., West Allis, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electrical power system. 2,166,187; July 18.

Stockmann, Gervase J. (See McCormack, H., and Stockmann.)

Stoesser, Sylvia M., and A. R. Gabel, assignors to The Dow Chemical Company, Midland, Mich. Coating composition. 2,166,557; July 18.

Stoll, Willy G. (See Fierz-David, H. E., and Stoll.)

Stone, Fred L., Schenectady, N. Y., assignor to General Electric Company. Alternating current circuit interrupter. 2,166,828; July 18.

Storck, Frederick W., Arlington, assignor to Standard Mailing Machines Company, Everett, Mass. Inking device for mail handling machines. 2,166,271; July 18.

Storck, Frederick W., Arlington, assignor to Standard Mailing Machines Company, Everett, Mass. Sheet feeding apparatus. 2,166,272; July 18.

Strid, Sven J., assignor to T & S Corporation, Chicago, Ill. Cotter pin. 2,166,614; July 18.

Stromberg-Carlson Telephone Manufacturing Company, The. (See Anderson, Roy S., assignor.)

Strube, Rudolf, and W. Ewald, Finow/Mark, Germany. Low frequency induction furnace. 2,166,734; July 18.

Sullivan, Eugene E., Chicago, Ill., assignor to Queen Anne Candy Company. Display rack. 2,166,708; July 18.

Sulzer Frères, Société Anonyme. (See Waeber, Erwin, assignor.)

Sumitomo Kinzoku-Kogyo Kabushiki Kaisha. (See Igarashi, I., and Kitahara, assignors.)

Sun Tube Corporation, The. (See Fridén, John H., assignor.)

Sutcliffe, Arthur G., assignor, by mesne assignments, to Ilg Electric Ventilating Co., Chicago, Ill. Blower. 2,166,647; July 18.

Sutton, Stanford M. (See Hardesty, J. M., and Sutton.)

Swanson, Gustaf A., Warwick, R. I., assignor to The Textile-Finishing Machinery Company. Caliper for a gatherer. 2,166,709; July 18.

Sward, Delbert, assignor to Arcade Manufacturing Company, Freeport, Ill. Latch. 2,166,735; July 18.

Swarthe, Leonard A. (See Cohn, B., and Swarthe.)

Swartwood, Kenneth, assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,166,829; July 18.

Swofford, John, assignor to Eugene Fruit Growers Association, Eugene, Oreg. Slicing machine. 2,166,648; July 18.

T & S Corporation. (See Strid, Sven J., assignor.)

Talon, Inc. (See Carlile, Alfred E., assignor.)

Tannerie & Maroquinerie Belges (Société Anonyme). (See Jacquet, René J. F., assignor.)

Tarlazzi, Julius, North Bergen, N. J. Clothesline covering device. 2,166,649; July 18.

Tatum, William W. (See Heslop, R. N., and Tatum.)

Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill. Telephone system. 2,166,329; July 18.

Taylor, Richard J. (See Taylor, William J. and R. J.)

Taylor, William J., assignor to The Lamson Company, Syracuse, N. Y. Machine for making frozen confections. 2,166,380; July 18.

Taylor, William J. and R. J., assignors to The Lamson Company, Syracuse, N. Y. Confection machine. 2,166,381; July 18.

Teahen, James M., Detroit, Mich. Water closet. 2,166,573; July 18.

Technical Oil Tool Corporation. (See Lake, F. W., and Wallace, assignors.)

Technygraph, The. (See Herterich, William F., assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Breyer, Felix, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Fritz, Karl, assignor.)

Telfer, Arthur K. (See Kepfer, R. J., and Telfer.)

Temple, George W., New York, assignor to Victor Metal Products Corporation, Brooklyn, N. Y. Cap-tightening mechanism for collapsible tubes. 2,166,382; July 18.

Texas Company, The. (See Gee, William P., assignor.)

Textile-Finishing Machinery Company, The. (See Swanson, Gustaf A., assignor.)

Textile Machine Works. (See Janssen, Henry, assignor.)

Thayer Action Company. (See Dasenbrook, Charles H., assignor.)

Therres, John, Norwalk, Calif. Brake control. 2,166,452; July 18.

Thorne, Carl B., Hawkesbury, Ontario, Canada. Apparatus for treating wood pulp or the like with chemical reagents. 2,166,200; July 18.

Thorson, Harry L., Schenectady, N. Y., assignor to General Electric Company. Metal radio tube. 2,166,830; July 18.

Timken Roller Bearing Company, The. (See Borland, John, assignor.)

Timken Roller Bearing Company. (See Scribner, William L., assignor.)

Tinnerman, Albert H. (See Lombard, Herman G., assignor.)

Tjaarda, John, Birmingham, assignor to Briggs Manufacturing Company, Detroit, Mich. Front wheel suspension. 2,166,774; July 18.

Townsend, Rex, Greenwich, Conn. Self-centering gauge for casing and drill pipes. 2,166,650; July 18.

Trofimov, Lev A., assignor, by mesne assignments, to Product Development and Engineering Corporation, Cleveland, Ohio. Method and means for treating electrically conducting liquids. 2,166,671; July 18.

Trumbull Electric Manufacturing Company, The. (See Getchell, Benjamin E., assignor.)

Trumbull Electric Manufacturing Company, The. (See Rowe, Raymond N., assignor.)

Tucker, Carll. (See Begun, Semi J., assignor.)

Turner, Charles S., Detroit, Mich. Flash boiler. 2,166,188; July 18.

Twentieth Century-Fox Film Corporation. (See Stack, John D., assignor.)

Twining, Ralph H., Arden, assignor to Darco Corporation, Wilmington, Del. Process and apparatus for preparing activated carbon. 2,166,225; July 18.

Ulmer, Joseph, Chicago, Ill. Combination sink stopper and strainer. 2,166,273; July 18.

Ultra Modern Piano Bench Company. (See Crawford, Monroe L., assignor.)

Union Carbide and Carbon Corporation. (See Graubner, Herman G., assignor.)

Union Oil Company of California. (See Bray, U. B., and Beckwith, assignors.)

Union Switch & Signal Company, The. (See Lazich, B., and Eckhardt, assignors.)

Union Switch & Signal Company, The. (See O'Hagan, Bernard E., assignor.)

Union Switch & Signal Company, The. (See Whitelock, Leland D., assignor.)

United-Carr Fastener Corporation. (See Churchill, Wilmer H., assignor.)

United-Carr Fastener Corporation. (See Jones, Ernest E., assignor.)

United Shoe Machinery Corporation. (See Bazzoni, Lewis J., assignor.)

United Shoe Machinery Corporation. (See Whelton, John M., assignor.)

United Steel and Wire Company. (See Faulkner, Arnold, assignor.)

Universal Fixture Corporation. (See Rosenberg, Philip, assignor.)

Universal Fixture Corporation. (See Rosenberg, P., and Mically, assignors.)

Universal Oil Products Company. (See Alther, Joseph G., assignor.)

Universal Oil Products Company. (See Morrell, Jacque C., assignor.)

Universal Oil Products Company. (See Swartwood, Kenneth, assignor.)

University of Minnesota, Regents of the. (See Bailey, Alan J., assignor.)

Valentine, James C. (See Hansen, Frank J., assignor.)

Van Cleave, Edwin E., Chicago, Ill. Nonspin wheel brake. 2,166,201; July 18.

Van Halteren, Andrew S., Lansing, Mich., assignor, by mesne assignments, to The Firestone Tire & Rubber Company, Akron, Ohio. Wheel. 2,166,695; July 18.

Vapor Car Heating Company. (See Parks, P. B., and Smith, assignors.)

Varley, Thomas W., Staten Island, N. Y., assignor, by mesne assignments, to H. A. Richards, Stamford, Conn. Electronic amplifying coupler and system therefor. 2,166,775; July 18.

Vegetable Oil Products Company. (See Behr, Otho M., assignor.)

Vehko, James, Detroit, Mich., assignor to The Murray Corporation of America. Producing stampings. 2,166,226; July 18.

Verbeek, Arnold F., Wustenbrand, Germany, assignor to Kallo, Inc., New York, N. Y. Knitting machine. 2,166,851; July 18.

Versoy, Irving R., assignor to The Berger Brothers Company, New Haven, Conn. Lace fastening for corsets and the like. 2,166,227; July 18.

Victor Manufacturing & Gasket Company. (See Heinze, William A., assignor.)

Victor Metal Products Corporation. (See Temple, George W., assignor.)

Vincent, George P., assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Bleaching. 2,166,330; July 18.

Vinogradoff, Alexander B. (See Lum, K. W., and Vinogradoff.)

Vogt, Alfred, Chemnitz, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Akt.-Ges., Schonau-Chemnitz, Germany. Typewriter. 2,166,383; July 18.

Vollmann, Heinrich. (See Leupold, E. O., and Vollmann.)

Von Giesche's, Georg, Erben. (See Bayer, K., and Burkhardt, assignors.)

Von Giesche's, Georg, Erben. (See Burkhardt, Arthur, assignor.)
Von Giesche's, Georg, Erben. (See Burkhardt, A., and Wolf, assignors.)
Von Hofe, George W., Bound Brook, and F. J. Hammer, North Bergen, assignors to New Jersey Machine Corporation, Hoboken, N. J. Conveyer for labeling machines and the like. 2,166,776; July 18.
Voss, Walter, The Hague, Netherlands. Igniter with liquid fuel. 2,166,881; July 18.
W. K. M. Company. (See Laurent, Milton P., assignor.)
Wadsworth, Frank L. O., deceased, by M. M. Wadsworth, administratrix, Pittsburgh, Pa., assignor to Ball Brothers Company, Muncie, Ind. Method and apparatus for severing molten glass. 2,166,563; July 18.
Wadsworth, Mildred M., administratrix. (See Wadsworth, Frank L. O.)
Waeber, Erwin, Seuzach, assignor to Sulzer Frères Société Anonyme, Winterthur, Switzerland. Apparatus for cooling fuel-valves for internal combustion engines. 2,166,331; July 18.
Wagar, George H., Sr., assignor of one-third to J. R. Byers, Jr., Rochester, N. Y. Cover for outlet boxes. 2,166,453; July 18.
Wagner Electric Corporation. (See Boldt, Werner F., assignor.)
Wagner Electric Corporation. (See Dick, Burns, assignor.)
Wagstaff, George, Beeston, Nottingham, assignor to Carr Fastener Company Limited, Stapleford, Nottingham, England. Spring socket for electric plug coplings. 2,166,897; July 18.
Walker, William C., New York, N. Y. Safety belt. 2,166,777; July 18.
Wallace, Columbus C., Fort Henry, Tenn. Housing and hub band for cars. 2,166,882; July 18.
Wallace, John H., Jr. (See Lake, F. W., and Wallace.)
Wallace, Sophie W., Columbia, S. C. Paint box palette. 2,166,616; July 18.
Wanderer-Werke vorm. Winklhofer & Jaenicke Akt.-Ges. (See Vogt, Alfred, assignor.)
Wannemacher, William P., Bloomington, Ill. Antiskid device. 2,166,454; July 18.
Warrol, Helge. (See Särenholm, E., and Warrol.)
Warwick, Arthur J., assignor to Stancliffe Free-Wheeling Limited, London, England. Sprag device for vehicles. 2,166,512; July 18.
Waters, Harry F., New York, N. Y., assignor of fifteen per cent to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electric organ. 2,166,202; July 18.
Waters, Harry F., New York, N. Y. Package and material for forming the same. 2,166,513; July 18.
Watkins, Bert R., Austin, Minn. Rotary snow plow. 2,166,667; July 18.
Wazac, Carl, Sr., Lost Nation, Iowa. Woodworking machine. 2,166,831; July 18.
Weber, John R., South River, and V. B. Sease, New Brunswick, N. J., assignors to Du Pont Film Manufacturing Corporation, New York, N. Y. Photographic processing. 2,166,617; July 18.
Webster, Benjamin. (See Benjafield, Walter O., assignor.)
Webster, Georgia E. and R. H., Richmond Heights, assignors of two-thirds to C. G. Perry, St. Louis, Mo. Weaving. 2,166,668; July 18.
Webster, Richard H. (See Webster, Georgia E. and R. H.)
Wehr, Robert D., Auburndale, Fla. Citrous peel scraper. 2,166,883; July 18.
Weiss, Felix, assignor to Cornell-Dubilier Corporation, New York, N. Y. Manufacturing electrical condensers. 2,166,852; July 18.
Wellman, Howard C., assignor to Eastman Kodak Company, Rochester, N. Y. Safety shutter for motion picture projectors. 2,166,696; July 18.
Wells, Robert F., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,166,189; July 18.
Welsh, Martin J. (See Johnson, Alpheus D., assignor.)
Wenker, Henry, Elizabeth, N. J. Sunshade attachment for deck chairs and the like. 2,166,832; July 18.
Wennmann, William, New York, N. Y. Door closer. 2,166,651; July 18.
West, William H., Kansas City, Mo. Alarm valve for pneumatic tires. 2,166,384; July 18.
Western Electric Company. (See Hartley, R. V. L., and Ives, assignors.)
Western Union Telegraph Company, The. (See Noxon, Paul A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Forsthoefel, Gregg F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kalischer, Milton, assignor.)
Westinghouse Electric & Manufacturing Company. (See White, Howard D., assignor.)
Wetherbee, Grover C., Saginaw, Mich. Portable wood converting machine. 2,166,455; July 18.
Whelton, John M., Peabody, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of reinforced shoe bottom units. 2,166,421; July 18.
White, Clayton F. A. (See Salzberg, P. L., and White.)
White, Frank L., and G. H. Keyes, assignors to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,166,736; July 18.
White, Howard D., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerator cabinet construction. 2,166,629; July 18.
White, Loyd J., San Antonio, Tex., assignor to Southern Steel Company. Storage and dispensing system for liquefied gas. 2,166,921; July 18.
White, Loyd J., San Antonio, Tex., assignor to Southern Steel Company. Liquefied gas dispensing system. 2,166,922; July 18.
White, William, Flint, Mich. Suspension device. 2,166,884; July 18.
Whitelock, Leland D., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Receiving apparatus for communication systems. 2,166,274; July 18.
Whitfield, Marshall G., and V. Sheshunoff, Knoxville, Tenn., assignors to Reynolds Metals Company, New York, N. Y. Coating metal with aluminum or the like. 2,166,510; July 18.
Whitney, Lyman F., Cambridge, Mass., assignor, by mesne assignments, to Stator Corporation. Condenser arrangement. 2,166,190; July 18.
Whitney, William E., Cambridge, Mass., assignor, by mesne assignments, to Stator Corporation. Refrigerating system. 2,166,191; July 18.
Whittemore, Charles H., Elizabeth, N. J. Tablet making machine. 2,166,192; July 18.
Widder, Eleanor, Forest Hills Gardens, Long Island, N. Y. Pressing iron for velvet and the like. 2,166,332; July 18.
Wilbor, Oscar J. (See Guthrie, R. G., and Wilbor.)
Wild, Heinrich, Romerburg, Baden, Switzerland. Telescope comprising two refracting and one reflecting systems. 2,166,102; July 18.
Wilfart, Maurice, Paris, France, assignor to General Electric Company. Synchronizing apparatus. 2,166,833; July 18.
Williams, Glenn J., Morristown, Tenn. Fuel pump. 2,166,618; July 18.
Williams, Oscar C., San Diego, Calif. Hair dressing and curling tool. 2,166,203; July 18.
Williams, William T., Terre Haute, Ind. Sheet metal roofing. 2,166,275; July 18.
Wilsey, Irven H., assignor of forty-five per cent to J. H. Sharp and ten per cent to E. W. Hibbard, Chicago, Ill. Amusement game apparatus. 2,166,228; July 18.
Wilson, James S. (See Lees, R. E., and Wilson.)
Wiltshire, Arthur J., Euclid, Ohio. Draft control for furnaces. 2,166,834; July 18.
Wintermute, Harry A., Plainfield, N. J., assignor, by mesne assignments, to Behr-Manning Corporation. Determining electrical characteristics. 2,166,385; July 18.
Wiseman, Jacob I., Middletown, N. Y. Airtight receptacle. 2,166,885; July 18.
Witzenmann, Emil, Pforzheim, Baden, Germany. Pneumatic tire. 2,166,511; July 18.
Wolf, Cecil R., Rock Falls, assignor to Frantz Manufacturing Co., Sterling, Ill. Garage door construction. 2,166,898; July 18.
Wolf, Wolfgang. (See Burkhardt, A., and Wolf.)
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Web splicing apparatus. 2,166,737; July 18.
Wood, John, Manufacturing Company. (See Woodford, Joseph C., assignor.)
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Woodcock, Charles H., assignor to The Atlantic Refining Company, Philadelphia, Pa. Recessing device. 2,166,923; July 18.
Woodford, Joseph C., Wayne, assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa. Liquid dispensing apparatus. 2,166,924; July 18.
Woodin, William H., Jr. (See Soller, Walter, assignor.)
Woodling, George V., Cleveland, Ohio, assignor to General Motors Corporation. Apparatus for determining air conditions. 2,166,697; July 18.
Woodworth, Charles W., Berkeley, Calif. Oil refining process. 2,166,193; July 18.
Worm, Herman G., Sacramento, Calif. Electric oven. 2,166,778; July 18.
Yancey, Elliott S., Houston, Tex. Display device. 2,166,835; July 18.
Zapis, William, Brooklyn, N. Y. Bathing trunks. 2,166,514; July 18.
Zinsser, Ludwig, Murr, Oberamt Marbach, Germany. Machine for working or disintegrating materials of all kinds, especially for husking grains. 2,166,652; July 18.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Air conditioning, Summer-winter. G. D. Kingsland. Re. 21,154; July 18.
Compass, Inductor. H. D. Oakley. Re. 21,156; July 18.
Control system. H. L. Miller. Re. 21,155; July 18.
Frequency conversion system. L. A. Hazeltine. Re. 21,153; July 18.
Radio receiving system. G. P. Adair. Re. 21,151; July 18.
Stop, Margin-regulating. H. C. Fox. Re. 21,152; July 18.

LIST OF PLANT INVENTIONS

Rose plant. W. I. Johnston. 335; July 18.

LIST OF DESIGN INVENTIONS

Blank for a pendant cruciform. M. Reiff. 115,794; July 18.
Bottle. J. L. Bicks. 115,778; July 18.
Bottle. J. L. Dunnock. 115,784; July 18.
Bottle. F. R. Hoch. 115,790–2; July 18.
Bottle or similar article. E. M. Cobb. 115,782; July 18.
Brassière. S. Green and H. Miller. 115,762; July 18.
Brush back or similar article. R. Conant. 115,783; July 18.
Building or similar article, Restaurant. R. L. Stickney. 115,803; July 18.
Cabinet for a radio broadcast receiver or similar article. A. C. Haggstrom. 115,788; July 18.
Case, Toilet. H. C. Wright. 115,805; July 18.
Casing or similar article, Watch. L. J. Davenport. 115,759; July 18.
Casing, Pipe camera. N. Anderson. 115,727; July 18.
Container, Insecticide. M. Keim. 115,820; July 18.
Counting device. F. A. Poole. 115,809; July 18.
Cover or similar article, Mattress. R. S. Foggett. 115,806; July 18.
Directory, Desk telephone. W. L. McCullouch. 115,763; July 18.
Dish or article of similar nature, Glass relish. T. C. Heisey. 115,818; July 18.
Dish or similar article, Pickle. G. Sakier. 115,801; July 18.
Dispenser or the like, Cigarette. O. N. Christensen. 115,781; July 18.
Display and stand therefor, Combined earmuff. C. L. Osborn. 115,765; July 18.
Doll. M. C. Smith. 115,768; July 18.
Dress. A. Ruchman. 115,825; July 18.
Fabric, Embroidered textile. H. A. Rohtman. 115,812–13; July 18.
Fabric, Textile. G. Megibow. 115,808; July 18.
Flashlight, Portable. H. E. Asch. 115,777; July 18.
Font of type. W. S. Gillies. 115,807; July 18.
Frame, Pneumatic pump. L. E. Russell. 115,798; July 18.
Gaff, Hand. G. R. O'Brien. 115,764; July 18.
Glass, Light diffusing. W. F. M. Hawe. 115,816–17; July 18.
Goblet or article of similar nature, Glass. T. C. Heisey. 115,819; July 18.
Goblet or similar article. A. J. Cunningham. 115,731–58; July 18.
Goblet or similar article. G. Sakier. 115,799; July 18.
Grenade, Fire extinguishing. W. L. Roessner. 115,824; July 18.
Handle and escutcheon, Combined. J. O. Reinecke. 115,796; July 18.
Holder, Lipstick. G. C. Robinson. 115,823; July 18.
Holder, Shade. L. Spero. 115,770; July 18.
Hook, Cup. J. Strand. 115,773; July 18.
Jar or similar container. E. Worthington. 115,804; July 18.
Kitchen unit, Combination. J. Tjaarda. 115,826; July 18.
Lavatory leg and towel bar, Combined. J. O. Reinecke, J. M. Kovarick, Jr., and R. H. Zinkil. 115,810; July 18.
Lavatory supply fixture and waste handle, Combined. J. O. Reinecke. 115,811; July 18.
Lock. S. R. Fraim. 115,761; July 18.
Mirror and direction indicator, Combination. L. R. Soderberg. 115,802; July 18.
Ornament or similar article, Christmas tree. 115,787; July 18.
Oven, Serving. R. N. Kircher. 115,821; July 18.
Pick-up device for game pieces. J. A. Hancock, Sr. 115,789; July 18.
Picture viewer or similar article, Electrically illuminated. V. Ronacher. 115,766; July 18.
Plate, Buffet. A. Brandes. 115,730; July 18.
Plate or similar article. G. Sakier. 115,800; July 18.
Plate or similar article. V. Skellern. 115,767; July 18.
Printer and holder therefor, Combined photographic. C. F. Wolters and A. H. Tober. 115,776; July 18.
Printer, Photographic. C. F. Wolters and A. H. Tober. 115,775; July 18.
Projector, Motion picture. P. F. Sperry. 115,771; July 18.
Pump. E. M. Deters. 115,814; July 18.
Rack, Comb holder. N. J. Bardaville. 115,728; July 18.
Regulator. H. W. Carnes. 115,780; July 18.
Shade or similar article. H. Goldberg. 115,786; July 18.
Shield or the like, Eye. J. A. English. 115,760; July 18.
Shower head. J. O. Reinecke. 115,795; July 18.
Spectacles, Pair of. T. J. Snavely. 115,769; July 18.
Spectacles, Pair of. E. M. Splaine. 115,772; July 18.
Spoon or analogous article. A. L. Barney. 115,729; July 18.
Spoon or similar article. F. S. Trumbull. 115,774; July 18.
Spout, waste handle and ice-water faucet, Combined lavatory. J. O. Reinecke. 115,797; July 18.
Stand or the like, Display. C. E. Erickson. 115,815; July 18.
Stove, Field. P. M. Forster. 115,785; July 18.
Stove, Portable. J. R. Morgan. 115,822; July 18.
Vibrator. J. F. Meyer. 115,793; July 18.
Woodworking machine. W. B. Boice. 115,779; July 18.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 18TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading device. A. V. Breed. 2,166,676; July 18.
Accelerator. G. F. Castle. 2,166,128; July 18.
Accelerator mechanism. F. J. Hansen. 2,166,866; July 18.
Acid. 1-naphthaleneacetic. R. O. Roblin, Jr., and I. Hechenbleikner. 2,166,554; July 18.
Acid to maleic anhydride, Conversion of maleic. L. U. Spence and J. C. Mitchell. 2,166,556; July 18.
Adiponitriles to produce hexamethylene diamines, Catalytic hydrogenation of. B. W. Howk. 2,166,151; July 18.
Aerial, Car. O. S. Harrington. 2,166,589; July 18.
Air conditioning system. H. Gibson. 2,166,813; July 18.
Air conditioning system, Automotive. A. R. Locke. 2,166,635; July 18.
Air conditions, Apparatus for determining. G. V. Woodling. 2,166,697; July 18.
Aircraft in flight or like operation, Refueling. R. L. R. Atcherley. 2,166,575; July 18.
Airplane. R. F. Hall. 2,166,292; July 18.
Airplane having folding wings. J. L. Atwood and V. H. Pavlecka. 2,166,564; July 18.
Airtight receptacle. J. I. Wiseman. 2,166,885; July 18.
Alarm, Fire. J. J. Piper. 2,166,264; July 18.
Alkali metal nitrate melts used in the heat treatment of metals, Stabilizing. J. M. Michel. 2,166,364; July 18.
Alkoxyl derivatives of nitro-aromatic compounds, Producing. H. McCormack and G. J. Stockmann. 2,166,917; July 18.
Alkyl derivatives of phenols, Forming nuclear. L. H. Flett. 2,166,136; July 18.
Alloy: *See*—
Metal alloy. Zinc alloy.
Alloy. A. W. Peterson. 2,166,768; July 18.
Alloy for machining hard castings, Sintered hard. R. Chelius. 2,166,795; July 18.
Alloys, Aluminum. I. Igarashi and G. Kitahara. 2,166,495–6; July 18.
Alloys, Copper-cobalt-beryllium. G. R. Brophy. 2,166,794; July 18.
Aluminum hydroxide, Colloidal. H. W. Jones. 2,166,868; July 18.
Ammonia from its elements, Synthesis of. J. H. Shapleigh. 2,166,611; July 18.
Ammonium nitrate, Manufacture of. R. W. Cairns. 2,166,579; July 18.
Amplifier, Balanced electron tube. W. Soller. 2,166,184; July 18.
Antenna. P. S. Carter. 2,166,750; July 18.
Antenna coupling system. R. A. Cushman, P. H. Smith, and M. A. Specht. 2,166,237; July 18.
Antibacklash device. P. G. Jacobson. 2,166,662; July 18.
Antineuritic substances, Preparing. E. R. Buchman. 2,166,233; July 18.
Antioxidant. W. L. Semon. 2,166,223; July 18.
Antiskid device. W. P. Wannemacher. 2,166,454; July 18.
Applicator, Tonic and oil. E. J. Hewitt. 2,166,295; July 18.
Article and making, Ornamental. W. F. Schmalz. 2,166,879; July 18.
Articles in warerooms, Storing. T. E. Foulkes. 2,166,704; July 18.
Articles, Making and covering. O. J. Kuhlke. 2,166,568; July 18.
Ash trap. W. J. Groth. 2,166,291; July 18.
Atomizer for liquids. F. Salsas-Serra. 2,166,772; July 18.
Automatic mechanism, Time clock controlled. J. H. Grayson. 2,166,683; July 18.
Axle lubricator. F. Pesarese. 2,166,606; July 18.
Bag sealing machine. W. R. Kohl. 2,166,761; July 18.
Bailer and cleaner, Oil well. P. Cavins. 2,166,716; July 18.
Bailer, Pump type. P. G. Gates. 2,166,488–9; July 18.
Bait, Weedless. H. Lund. 2,166,311; July 18.
Baker's machine for cutting and spreading the cut portions. P. Kellner. 2,166,159; July 18.
Band, Decorative. S. F. Bauwens. 2,166,337; July 18.
Bar: *See*—
Refreshment bar.
Base for an electric appliance, Insulating. H. A. Smith. 2,166,451; July 18.
Base for display devices, Support-engaging. W. G. Huber. 2,166,470; July 18.
Basin wrench. L. Sharpe. 2,166,449; July 18.
Bathtub. J. L. Houston. 2,166,469; July 18.
Bearing: *See*—
Roller bearing. Shaft bearing.
Bearing surfaces, Forming. I. T. Bennett. 2,166,701; July 18.

Bedpan. F. D. Schermerhorn. 2,166,480; July 18.
Beet harvester, Combine. J. Devey, Jr. 2,166,626; July 18.
Belt, Safety. W. C. Walker. 2,166,777; July 18.
Bench, Plano. M. L. Crawford. 2,166,485; July 18.
Beryllium ores, Treatment of. D. Gardner. 2,166,659; July 18.
Beverage device. C. E. Page. 2,166,728; July 18.
Binding machine, Spiral. V. Catini. 2,166,519; July 18.
Bit: *See*—
Drill bit.
Blade holder. J. Benda. 2,166,855; July 18.
Blade holding means for hacksaws and the like. D. E. Priest and H. P. Macomber. 2,166,446; July 18.
Bleaching. G. P. Vincent. 2,166,330; July 18.
Blind, Venetian. P. H. Kuyper. 2,166,599; July 18.
Blower, A. G. Sutcliffe. 2,166,647; July 18.
Blue-print coatings, Stabilization of. G. P. Ham and R. B. Barnes. 2,166,546; July 18.
Bobbin. W. J. Elvin. 2,166,243; July 18.
Boiler: *See*—
Flash boiler.
Books, Attachment for. I. M. Daly. 2,166,802; July 18.
Bottom for bags. D. Lewis. 2,166,360; July 18.
Box: *See*—
Ornamental box.
Boxes, Method and apparatus for assembling wrapped. H. A. Carruth. 2,166,126; July 18.
Boxes or the like with printed wrappers, Making paper. C. L. Claff. 2,166,287; July 18.
Braiding machine carrier. C. S. Barningham. 2,166,336; July 18.
Brake: *See*—
Hydraulic brake. Wheel brake.
Brake. J. W. Jones and F. C. Reilly. 2,166,157; July 18.
Brake arrangement. R. G. Aurien. 2,166,887; July 18.
Brake control. J. Therres. 2,166,452; July 18.
Brake mechanism for railway cars, Hand. J. E. Lindeman. 2,166,256; July 18.
Brake shoe clearance take-up means. W. F. Boldt. 2,166,793; July 18.
Brake testing apparatus. T. Anderson. 2,166,699; July 18.
Brake testing device. J. N. Freeman. 2,166,244; July 18.
Brake unit. J. L. Hill. 2,166,493; July 18.
Braking apparatus. B. Dick. 2,166,754; July 18.
Braking system. B. Dick. 2,166,804; July 18.
Bucket for miniature digging and hoisting machines. W. D. Bartlett. 2,166,854; July 18.
Buckle. J. B. Freysinger. 2,166,902–3; July 18.
Buckle. W. Gency. 2,166,466; July 18.
Building construction. I. F. Reed. 2,166,371; July 18.
Building suitable for countries liable to earthquakes. A. Becklus. 2,166,577; July 18.
Bulkhead, Portable. J. McMullen and J. T. Gallagher. 2,166,918; July 18.
Bulldozer and hoist, Combined gear powered. T. P. Flynn and R. E. Neils. 2,166,105; July 18.
Bullet deflecting attachment for firearm. C. B. Greenstreet. 2,166,468; July 18.
Bumper, Automobile. H. R. Bates. 2,166,483; July 18.
Burner for liquid fuels. J. L. Breese. 2,166,231; July 18.
Bus bar and strip bender. L. W. Farney. 2,166,347; July 18.
Cabinet: *See*—
Milk bottle cabinet. Wall cabinet.
Cabinet. H. E. Mills. 2,166,640; July 18.
Cabinet construction. G. F. Forsthoefel. 2,166,630; July 18.
Cabinet construction, Refrigerator. H. D. White. 2,166,629; July 18.
Cable: *See*—
Ignition manifold cable.
Caisson, Semicoffer or ship. H. Gerdes. 2,166,865; July 18.
Calcium arsenate, Manufacture of. I. L. Haag. 2,166,246; July 18.
Calcium hypochlorite composition, Stable. J. D. MacMahon. 2,166,362–3; July 18.
Calculating machine. W. F. Martin. 2,166,845; July 18.
Caliper for a gatherer. G. A. Swanson. 2,166,709; July 18.
Camera. C. F. Jones. 2,166,440; July 18.
Camera, Motion picture. P. Heinisch and K. Schencke. 2,166,147; July 18.
Camera, Photographic. P. Heinisch. 2,166,148; July 18.
Camera, Reflex. A. D. Johnson. 2,155,471; July 18.
Can assembly. J. A. Edwards. 2,166,465; July 18.
Can construction. E. O. Munk. 2,166,783; July 18.
Can-filling machine. E. H. L. Johannes. 2,166,528; July 18.
Caps, Making over-all bottle. C. A. MacCordy. 2,166,501; July 18.

Capacitor circuit. J. D. Stacy. 2,166,827; July 18.
Capacitor, Fixed. L. E. Anderson and A. T. Harding. 2,166,205; July 18.
Cap-tightening mechanism for collapsible tubes. G. W. Temple. 2,166,382; July 18.
Car: *See*—
Refrigerator car. Stock car.
Carbon dioxide converter. R. E. McIlrath. 2,166,637; July 18.
Carbon, Process and apparatus for preparing activated. R. H. Twining. 2,166,225; July 18.
Carburetor structure. A. H. Blattner. 2,166,899; July 18.
Card, Display. H. M. Owens. 2,166,766; July 18.
Carriage for vehicles moved principally in one direction. L. E. W. Montrose-Oster. 2,166,456; July 18.
Carrier: *See*—
Braiding machine carrier. Pipe carrier.
Luggage carrier.
Carton. C. H. Lowe. 2,166,762; July 18.
Carton. L. A. Ranko and M. Feldman. 2,166,222; July 18.
Cellulosic material, Alcoholic treatment of ligneous. A. J. Bailey. 2,166,540; July 18.
Cellulosic material, Treatment of. H. Rein. 2,166,325; July 18.
Cellulosic sheeting, Moistureproof. N. F. Beach. 2,166,711; July 18.
Centrifugal pump. W. F. Harlow. 2,166,436; July 18.
Centrifugal pump, Self-priming. H. E. La Bour. 2,166,358; July 18.
Cereal products with minerals, Fortifying. F. A. Collatz. 2,166,797; July 18.
Chain adjuster. C. L. Henry. 2,166,406; July 18.
Charge, Preparation of. A. G. Peterkin. 2,166,176; July 18.
Chemical compounds. W. A. Sexton. 2,166,198; July 18.
Chip controller and breaker. N. N. Shepherd. 2,166,826; July 18.
Chuck, Air. W. C. Monzingo. 2,166,874; July 18.
Cigarette apparatus. W. F. M. Edwards. 2,166,486; July 18.
Circuit: *See*—
Capacitor circuit. Electric valve circuit.
Control circuit.
Circuit breaker. R. N. Rowe. 2,166,555; July 18.
Circuit breaker, Electric. H. A. Hidde Nijland. 2,166,590; July 18.
Circuit interrupter. G. N. Lemmon. 2,166,782; July 18.
Circuit interrupter, Alternating current. F. L. Stone. 2,166,828; July 18.
Circuit interrupter, Electric. I. E. Coffey. 2,166,901; July 18.
Circular warp loom. E. Hiller. 2,166,494; July 18.
Clamp: *See*—
Hose clamp. Wire clamp.
Tire chain clamp.
Cleaning and sweeping machine, Suction. W. J. Frame and J. J. Hambidge. 2,166,863; July 18.
Cleaning machine, Air exhausting and cotton. J. E. Mitchell. 2,166,925; July 18.
Clip: *See*—
Upholstery clip.
Clip. N. Donohue. 2,166,344; July 18.
Clip for mounting cables and like objects. H. G. Lombard. 2,166,916; July 18.
Closure and locking device for kit bags, cash bags, and the like. H. Davis. 2,166,860; July 18.
Cloth, Treating lens cleaning. A. Panissidi. 2,166,570; July 18.
Clothes drier. E. A. Illig. 2,166,592; July 18.
Clothesline covering device. J. Tarlazzi. 2,166,649; July 18.
Clutch: *See*—
Transmission clutch.
Coat collar construction. J. Giuseffi. 2,166,566; July 18.
Coating and product thereof. W. H. Moss. 2,166,261; July 18.
Coating composition. S. M. Stoesser and A. R. Gabel. 2,166,557; July 18.
Coil. A. Helgason and P. E. Keegan. 2,166,841; July 18.
Coin collector apparatus. R. L. Peek, Jr. 2,166,639; July 18.
Collar. J. J. Cunningham. 2,166,425; July 18.
Color photography. P. L. Salzberg and C. F. A. White. 2,166,181; July 18.
Coloring matters of the phthalocyanine type. I. M. Hellbron, F. Irving, and R. P. Linstead. 2,166,213; July 18.
Column for evaporators and fractionating towers, Level. J. W. Gray. 2,166,904; July 18.
Combustion chamber for an internal combustion engine. J. P. Burke. 2,166,679; July 18.
Communication system. C. C. Langevin. 2,166,529; July 18.
Compositions comprising chlorinated substances, Stable. G. Meyer. 2,166,604; July 18.
Composition of matter. R. A. Crawford. 2,166,236; July 18.
Compositions of matter. S. Caplan. 2,166,518; July 18.
Compounds of cerium, Preparation of oxygen containing. J. Blumenfeld. 2,166,702; July 18.
Compressor, Portable trail. T. P. Flynn and R. E. Neils. 2,166,780; July 18.
Compressor regulator. C. S. Baker. 2,166,789; July 18.
Condensation products from cyano-acetic acid arylides. F. Felix and R. Ruegg. 2,166,487; July 18.
Condenser: *See*—
Electrolytic condenser.
Condenser arrangement. L. F. Whitney. 2,166,190; July 18.
Condensers, Manufacturing electrical. F. Weiss. 2,166,852; July 18.
Condiment dispenser. F. Köstenberger. 2,166,302; July 18.
Conductor, Insulated. C. R. Colbree. 2,166,796; July 18.
Confection machine. W. J. and R. J. Taylor. 2,166,381; July 18.
Connection and making same, Boiler sheet and tube. J. J. Desmond. 2,166,890; July 18.
Connection, Electric wiring. L. Budnick. 2,166,621; July 18.
Connection, Flexible lead. W. T. Allen and O. Maseng. 2,166,333; July 18.
Connection for hydrants, Breakable. J. S. Kiesel. 2,166,412; July 18.
Connection for slush pumps, Suction line. A. J. and K. T. Penick, and R. F. Davis. 2,166,836; July 18.
Connector: *See*—
Pipe connector.
Connector. A. A. Berndt and H. C. Nycum. 2,166,458; July 18.
Constituents of organic mixtures containing both resin acids and fatty acids, particularly tall oil, Separation of the. F. H. Gayer and C. E. Fawkes. 2,166,812; July 18.
Construction system. H. P. Ford. 2,166,658; July 18.
Contacting element, Electrical. F. R. Hensel and K. L. Emmert. 2,166,248; July 18.
Container construction. P. K. Becker. 2,166,619; July 18.
Container for refrigerators, Freezing. A. C. Schmelzer. 2,166,560; July 18.
Control apparatus. E. C. Raney. 2,166,323; July 18.
Control circuit. R. D. Amsden. 2,166,788; July 18.
Control circuit. R. B. Dome. 2,166,805; July 18.
Control device. J. M. Jackson. 2,166,410; July 18.
Control device for aircraft, Dual. J. G. M. J. de Wouters d'Oplinter. 2,166,241; July 18.
Control system and apparatus. P. Roman and R. Baluta. 2,166,194; July 18.
Converter, Frequency. J. F. Farrington. 2,166,522; July 18.
Conveyer, Belt. N. P. Ruppenthal. 2,166,447; July 18.
Conveyer for labeling machines and the like. G. W. von Hofe and F. J. Hammer. 2,166,776; July 18.
Cooler: *See*—
Evaporative cooler. Surface cooler.
Cooling apparatus. H. S. Frank. 2,166,401; July 18.
Cooling apparatus. H. W. Kleist. 2,166,161; July 18.
Copper refining process. R. P. Heuer. 2,166,354; July 18.
Cotter pin. S. J. Strid. 2,166,614; July 18.
Cotton sample selecting device. G. E. Gaus. 2,166,811; July 18.
Counter molding machine. C. W. Bailey and J. H. Scharffenberg. 2,166,888; July 18.
Coupler and system therefor, Electronic amplifying. T. W. Varley. 2,166,775; July 18.
Coupler. M. E. Dayton. 2,166,208; July 18.
Coupling: *See*—
Flexible coupling.
Coupling. H. Z. Gora. 2,166,402; July 18.
Cover for outlet boxes. G. H. Wagar, Sr. 2,166,453; July 18.
Crank movement eliminating dead center. A. B. Broluska. 2,166,565; July 18.
Crankshaft arrangement for internal combustion engines. H. G. Nissen. 2,166,896; July 18.
Curler, Hair. M. Auster. 2,166,386; July 18.
Current converting system. F. F. Hutchinson. 2,166,155; July 18.
Current converting system, Electric. D. I. Bohn and O. K. Marti. 2,166,900; July 18.
Cushioning device for electric motors. B. A. Brown. 2,166,285; July 18.
Cutter: *See*—
Doughnut cutter. Vegetable cutter.
Potato cutter.
Cutter bar attachment. I. Knight. 2,166,723; July 18.
Cylinder honing and wiping device. G. C. Beck. 2,166,281; July 18.
Cylinder, Volumetric control master. H. T. Lambert. 2,166,742; July 18.
Cylinders with an inner lining, Making engine. A. Lesage. 2,166,634; July 18.
Damper and control, Multiple. H. G. Chandler. 2,166,623; July 18.
Defroster for windshields. E. P. Hayward. 2,166,146; July 18.
Dehydrator, Egg. R. A. Goodhue. 2,166,467; July 18.
Detergents and preparation thereof. W. S. Martin. 2,166,315; July 18.
Detergents, Preparation of. W. S. Martin. 2,166,314; July 18.
Device for applying and attaching tear-off caps to bottles. E. Pommer. 2,166,784; July 18.
Device for dispensing web material. H. Fredd. 2,166,349; July 18.
Device for receiving written and graphic matter. E. Ammann and G. C. F. Meissner. 2,166,853; July 18.

Device for regulating gas flow, Coin-controlled. H. C. Mayers. 2,166,872; July 18.
Device for working on the soles of footwear. J. A. Bata. 2,166,482; July 18.
Dialkyl formamides as selective solvents for refining mineral oils. V. L. Hansley. 2,166,140; July 18.
Diazoamino compounds. H. E. Fierz-David and W. G. Stoll. 2,166,681; July 18.
Dielectric device. R. G. Guthrie and O. J. Wilbor. 2,166,139; July 18.
Digger, Post hole. A. B. Crozier. 2,166,395; July 18.
Dinitriles, Hydrogenation of aliphatic. B. W. Howk. 2,166,152; July 18.
Dinitriles, Preparation of aliphatic. F. K. Signaigo. 2,166,183; July 18.
Dinitriles to diamides, Catalytic hydrogenation of. B. W. Howk. 2,166,150; July 18.
Disk harrow. L. Brenneis, C. L. Najera, and J. F. Schuck. 2,166,678; July 18.
Disk type valve. J. W. Overbeke. 2,166,875; July 18.
Dispenser: *See*—
Condiment dispenser.
Display device. E. S. Yancey. 2,166,835; July 18.
Display device, Articulated. C. E. Staudt. 2,166,572; July 18.
Display rack. E. E. Sullivan. 2,166,708; July 18.
Display receptacle. J. and J. Clofalo. 2,166,422; July 18.
Door and hanger structure, Right and left opening. C. S. Rosenfeld. 2,166,534; July 18.
Door closer. W. Wennmann. 2,166,651; July 18.
Door construction. H. Hanson. 2,166,588; July 18.
Door construction, Garage. C. R. Wolf. 2,166,898; July 18.
Door construction, Overhead operating garage. H. H. Bartel. 2,166,746; July 18.
Door hook mounting. G. R. Bellah. 2,166,620; July 18.
Door operating mechanism. E. R. Greer. 2,166,892; July 18.
Double opposed lever engine. E. Gray. 2,166,211; July 18.
Doughnut cutter. I. S. Mosher. 2,166,260; July 18.
Draft control for furnaces. A. J. Wiltshire. 2,166,834; July 18.
Drag, Road. J. C. Johnson. 2,166,596; July 18.
Drier: *See*—
Clothes drier. Vacuum drier.
Drier. R. Skagerberg. 2,166,379; July 18.
Drill bit. G. A. Mead. 2,166,664; July 18.
Drill bit. R. N. Riblet. 2,166,478; July 18.
Drill fixture. W. Ray. 2,166,692; July 18.
Drill head, Core. A. C. Catland. 2,166,462; July 18.
Drive dual control, Split. R. E. Smith. 2,166,270; July 18.
Drive, Enclosed outboard motor. W. M. Conover. 2,166,234; July 18.
Driving mechanism. H. Moore and H. E. Charlton. 2,166,873; July 18.
Drum, Snare. H. H. Slingerland. 2,166,733; July 18.
Dry gas holder. K. Jagschitz. 2,166,156; July 18.
Duplicating attachment for typewriters. C. S. Engleman. 2,166,288; July 18.
Dusting composition. A. M. Boyce. 2,166,121–2; July 18.
Dynamo-electric machine. P. M. Currier. 2,166,801; July 18.
Dyestuffs, Anthraquinone. R. N. Heslop and W. W. Tatum. 2,166,353; July 18.
Easel, Photographic enlarging. J. M. Rodriguez. 2,166,878; July 18.
Egg testing device. A. Schwarzkopf. 2,166,706; July 18.
Electric discharge device. H. T. Maser. 2,166,817; July 18.
Electric heater. F. J. Ewald, Jr. 2,166,807; July 18.
Electric lamp. W. O. Benjafield. 2,166,282; July 18.
Electric lamp. W. J. Hitchcock. 2,166,781; July 18.
Electric switch. B. E. Getchell. 2,166,545; July 18.
Electric valve circuit. L. G. Levoy, Jr. 2,166,306; July 18.
Electric valve circuit. H. W. Lord. 2,166,309–10; July 18.
Electrical characteristics, Determining. H. A. Wintermute. 2,166,385; July 18.
Electrical connection means. H. A. Douglas. 2,166,346; July 18.
Electrical contact and connection means. H. A. Douglas. 2,166,345; July 18.
Electrical device. G. B. Benander. 2,166,790; July 18.
Electrical power system. P. M. Stivender. 2,166,187; July 18.
Electrical switching mechanism. W. F. Friedman and F. B. Rowlett. 2,166,137; July 18.
Electrolyte, Film maintaining. S. Ruben. 2,166,179; July 18.
Electrolytic condenser. S. Ruben. 2,166,180; July 18.
Electron discharge device. H. R. Seelen and K. M. McLaughlin. 2,166,744; July 18.
Electro-optical transmission system. R. V. L. Hartley and H. E. Ives. 2,166,247; July 18.
Emulsions and producing the same. U. B. Bray and L. B. Beckwith. 2,166,541; July 18.
Engine: *See*—
Double opposed lever engine. Internal combustion engine.
Equalizer for sucker rods. J. T. Dickson. 2,166,426; July 18.
Esters of polyhydroxy aliphatic compounds, Making nitrite. C. Allen. 2,166,698; July 18.
Esters, Preparation of sulphocarboxylic. B. R. Harris. 2,166,144; July 18.
Esters, Sulphocarboxylic. B. R. Harris. 2,166,141; July 18.
Esters, Sulphocarboxylic. B. R. Harris. 2,166,143; July 18.
Esters, Sulphocarboxylic. B. R. Harris. 2,166,145; July 18.
Esters, Sulphocarboxylic acid. B. R. Harris. 2,166,142; July 18.
Evaporative cooler. C. N. Deverall. 2,166,397; July 18.
Excavating structure. B. C. Craig. 2,166,800; July 18.
Excitation system for third harmonic interphase transformers. C. C. Herskind. 2,166,814; July 18.
Expansion tank. E. S. Cornell, Jr. 2,166,235; July 18.
Extractor: *See*—
Fruit juice extractor.
Fabric: *See*—
Knitted fabric.
Fabric cleaning apparatus. R. A. Hetzer. 2,166,294; July 18.
Fan, Tunnel. E. L. Anderson. 2,166,276; July 18.
Fastening for corsets and the like, Lace. I. R. Versoy. 2,166,227; July 18.
Film holding device. C. S. Bassin. 2,166,387; July 18.
Film magazine for cinematographic cameras. C. E. Hillery-Collings. 2,166,543; July 18.
Finishing machine. G. A. Carlson. 2,166,859; July 18.
Fire extinguisher. C. L. Adams. 2,166,277; July 18.
Fish lures, Device, adapter, tool, or the like to facilitate the manufacture of artificial. M. M. Evans. 2,166,585; July 18.
Flare, Parachute. S. P. Huff. 2,166,154; July 18.
Flash boiler. C. S. Turner. 2,166,188; July 18.
Flashlight. H. G. Graubner. 2,166,682; July 18.
Flashlight devices. H. C. Evelyn. 2,166,657; July 18.
Flexible Coupling. C. Saurer. 2,166,376; July 18.
Flight attitude indicator. H. Schuchardt. 2,166,920; July 18.
Float for fish nets. S. E. Cressey. 2,166,463; July 18.
Floodlight mounting. R. E. Crossley. 2,166,394; July 18.
Flour sifting machine. D. G. Jensen. 2,166,438; July 18.
Flow meter. F. W. Side. 2,166,378; July 18.
Fluid-handling system. P. S. Morgan. 2,166,530; July 18.
Folding packaging receptacle. P. M. Ressinger. 2,166,265; July 18.
Food product and making the same. S. W. Alderfer. 2,166,278; July 18.
Form and envelope, Combination business. H. L. Johnson. 2,166,439; July 18.
Formula finding device. G. E. Roeder. 2,166,372; July 18.
Frame for photographs and the like, Mounting. G. Perera and R. C. Myles, Jr. 2,166,641; July 18.
Frequency doubler. H. Shore. 2,166,538; July 18.
Front wheel suspension. J. Tjaarda. 2,166,774; July 18.
Fruit juice extractor. J. J. Horvath. 2,166,547; July 18.
Fuel-feeding apparatus. F. T. Snyder. 2,166,850; July 18.
Fuel gas apparatus. D. J. Little. 2,166,911; July 18.
Fuel injection pump. E. M. Purdy. 2,166,876; July 18.
Fuel mixing device. A. Gorleski. 2,166,720; July 18.
Fuel pump. G. J. Williams. 2,166,618; July 18.
Fulcrum, Carrier iron and brake. R. G. Aurien. 2,166,886; July 18.
Furnace: *See*—
Induction furnace.
Furnace construction and operation. G. T. Shoemaker. 2,166,199; July 18.
Fuse. L. R. Popp. 2,166,174; July 18.
Fuse and circuit extension connector, Combination electric. R. F. Knelsley. 2,166,254; July 18.
Game apparatus, Amusement. I. H. Wilsey. 2,166,228; July 18.
Gaming device. O. T. Bergenn. 2,166,115; July 18.
Garment, Surgical. B. C. Mott. 2,166,727; July 18.
Gas, Apparatus for storing and dispensing liquefied hydrocarbon. D. J. Little. 2,166,913; July 18.
Gas dispensing system, Liquefied. L. J. White. 2,166,922; July 18.
Gas, Method of and apparatus for storing and dispensing liquefied. D. J. Little. 2,166,915; July 18.
Gas storage and dispensing system, Liquefied hydrocarbon. D. J. Little. 2,166,912; July 18.
Gas storage and dispensing system, Liquefied hydrocarbon. D. J. Little. 2,166,914; July 18.
Gases, Polymerization of hydrocarbon. F. M. Clothier, Jr., and H. W. Field. 2,166,129; July 18.
Gauge: *See*—
Liquid gauge.
Gauge for and method of waving hair. L. Quinio. 2,166,558; July 18.
Gauge for casing and drill pipes, Self-centering. R. Townsend. 2,166,650; July 18.

Gears, Method and apparatus for hardening. H. Schicht. 2,166,731; July 18.
Gelatin and glue, Treatment of. R. J. F. Jacquet. 2,166,297; July 18.
Generator: *See*—
Portable acetylene generator.
Glass and similar ware, Method and apparatus for treatment of. D. I. Du Bois. 2,166,428; July 18.
Glass, Apparatus for tempering. J. L. Drake. 2,166,427; July 18.
Glass articles, Method and apparatus for making. P. R. Luerzing. 2,166,871; July 18.
Glass, Method and apparatus for severing molten. F. L. O. Wadsworth. 2,166,563; July 18.
Glass sheets, Apparatus for tempering. G. R. Ford, Jr. 2,166,348; July 18.
Gold compounds and producing the same, Therapeutically valuable. A. Feldt, K. Schöllkopf, and A. Schmitz. 2,166,133; July 18.
Grinder and control valve therefor. F. P. Forss 2,166,757; July 18.
Grinder, Portable. W. C. Draheim. 2,166,861; July 18.
Grinding machine. R. S. Hinsey. 2,166,356; July 18.
Grip and attaching means therefor, Hose supporter. F. E. Mefford. 2,166,474; July 18.
Guard, Bumper. R. C. Legat. 2,166,816; July 18.
Guards or bumpers, Applying. M. Côté. 2,166,798; July 18.
Guide, Discharge. J. McIntosh. 2,166,593; July 18.
Hair dressing and curling tool. O. C. Williams. 2,166,203; July 18.
Hairpin. E. C. Burns. 2,166,460; July 18.
Handbag. A. Mayer. 2,166,217; July 18.
Handle *See*—
Upholstery handle.
Hanger. M. C. Harvey. 2,166,492; July 18.
Hanging apparatus, Clothes. E. C. Robertson. 2,166,771; July 18.
Headlight, Suction cleaner. G. H. Scott. 2,166,267; July 18.
Heat-exchanging structure and its constructional elements. P. Schwarze. 2,166,375; July 18.
Heat treatment of castings and the like. A. S. Nichols. 2,166,919; July 18.
Heater *See*—
Electric heater.
Heating apparatus, Auxiliary. L. J. Higgins and H. L. Rosen. 2,166,355; July 18.
Heating system. R. H. Smith. 2,166,509; July 18.
Heterocyclic compounds. C. E. Dent 2,166,240; July
Hinge, Door. A. L. Jones. 2,166,815; July 18.
Holder *See*—
Blade holder. Venetian blind tape holder.
Dry gas holder.
Holder for collapsible tube containers. J. Holt. 2,166,107; July 18.
Holder for hog or swine rings. C. Johnson. 2,166,526; July 18.
Holder for roll material, Adjustable. B. Posatsky. 2,166,320; July 18.
Holding and feeding device for "stenotype" notes. B. C. Shipley and J. D. Rice. 2,166,508; July 18.
Honing apparatus, Razor. F. Schmid. 2,166,773; July 18.
Hood latch. D. P. Hynes. 2,166,252; July 18.
Hook: *See*—
Sheet metal snap hook.
Hopper closure mechanism. A. G. Carlson. 2,166,484; July 18.
Hormones, Cortical. T. Reichstein. 2,166,877; July 18.
Hose clamp. H. W. Goodall. 2,166,524; July 18.
Hose protector. W. C. Schuknecht and G. N. Jagemann. 2,166,448; July 18.
Housing and hub band for cars. C. C. Wallace. 2,166,882; July 18.
Humidifying system. O. J. Kuenhold. 2,166,414; July 18.
Humidostat, Adjustable. H. R. Grago. 2,166,799; July 18.
Hydraulic brake. E. F. Loweke. 2,166,724; July 18.
Hydraulic device. M. J. Clark. 2,166,423; July 18.
Hydrocarbons, Conversion of. T. Cross, Jr. 2,166,544; July 18.
Hydrocarbons for conversion, Preparation of. A. G. Peterkin. 2,166,177; July 18.
Igniter with liquid fuel. W. Voss. 2,166,881; July 18.
Ignition manifold cable. E. A. Robertson. 2,166,420; July 18.
Illuminating device. R. L. Hohl. 2,166,149; July 18.
Impeller positioning device for turbine pumps, Electrical. J. M. Halt. 2,166,404; July 18.
Impulse switch. F. L. Creager. 2,166,680; July 18.
Index and brake device. A. S. Chandler. 2,166,716; July 18.
Indicating device. L. E. Barton. 2,166,674; July 18.
Indicating instrument, Temperature compensated. C. J. Jenny. 2,166,595; July 18.
Indicating instrument, Temperature-compensated. A. Menzer. 2,166,603; July 18.
Indicator: *See*—
Flight altitude indicator. Remote multiple indicator.
Recording drift indicator.
Induction furnace, Low frequency. R. Strube and W. Ewald. 2,166,734; July 18.
Inking device for mail handling machine. F. W. Storck. 2,166,271; July 18.
Insecticidal composition. E. W. Bousquet. 2,166,120; July 18.
Insecticidal compositions containing heterocyclic amides. E. W. Bousquet and P. L. Salzberg. 2,166,118; July 18.
Insecticide. E. W. Bousquet. 2,166,119; July 18.
Insecticides and making same. C. P. Hopkins. 2,166,661; July 18.
Internal combustion engine. C. D. Davis. 2,166,464; July 18.
Internal combustion engine. C. T. Doman. 2,166,398; July 18.
Internal combustion engine. A. Heess. 2,166,525; July 18.
Iron: *See*—
Laundry iron.
Iron for velvet and the like, Pressing. E. Widder. 2,166,332; July 18.
Joint: *See*—
Road joint.
Joint for concrete pavements or thee like, Expansion. C. Older. 2,166,219; July 18.
Ketones, Purification of. R. M. Deanesly. 2,166,584; July 18.
Knitted fabric. W. Larkin. 2,166,166; July 18.
Knitting machine. A. F. Verbeek. 2,166,851; July 18.
Labeling machine. E. L. Knoedler and A. L. Preston. 2,166,497; July 18.
Lamp: *See*—
Electric lamp.
Latch: *See*—
Hood latch.
Latch. W. Lange. 2,166,499; July 18.
Latch. D. Sward. 2,166,735; July 18.
Lathing. C. A. Karelius. 2,166,443; July 18.
Laundry iron. J. S. Baker. 2,166,334; July 18.
Lens, Glare-preventive. F. J. Hari. 2,166,684; July 18.
Lenses, Forming unbreakable. E. G. Lloyd. 2,166,215; July 18.
Lettuce-handling apparatus. E. H. Spiegl. 2,166,561; July 18.
Light control device. K. Gromus. 2,166,491; July 18.
Light for sound recorders, Exciter. J. D. Stack. 2,166,186; July 18.
Lighter. G. P. Schmitt. 2,166,266; July 18.
Lighting fixture. E. F. Sibbert. 2,166,646; July 18.
Lighting unit. R. E. Crossley. 2,166,393; July 18.
Liquid dispensing apparatus. J. C. Woodford. 2,166,924; July 18.
Liquid flow control apparatus. J. F. Putnam and E. E. Edwards. 2,166,370; July 18.
Liquid gauge. O. B. Arntzen. 2,166,779; July 18.
Liquids, Treating electrically conducting. L. A. Trofimov. 2,166,671; July 18.
Lock: *See*—
Slider lock.
Lock. W. R. Neckerman. 2,166,690; July 18.
Lock for doors and the like. E. Sörenholm and H. Warrol. 2,166,535; July 18.
Lock structure. C. F. Handshy and W. I. Conant. 2,166,660; July 18.
Locking and tightening means. E. S. Persson. 2,166,318; July 18.
Locking device, Removable. A. R. Coe. 2,166,130; July 18.
Locking means, Shaft bearing. J. Borland. 2,166,391; July 18.
Loom: *See*—
Circular warp loom. Weaver's loom.
Loom harness. J. J. Kaufmann. 2,166,895; July 18.
Louver construction. E. P. Jones. 2,166,441; July 18.
Lubricant, Intermolecular. R. B. Denham. 2,166,286; July 18.
Lubricating device. J. Bugatti. 2,166,857; July 18.
Lubricator: *See*—
Axle lubricator.
Luggage carrier. B. A. Otten. 2,166,262; July 18.
Machine for combining bags and cartons. R. M. Bergstein. 2,166,388; July 18.
Machine for making frozen confections. W. J. Taylor. 2,166,380; July 18.
Machine for undulatingly corrugating cardboard. H. G. Burrill. 2,166,749; July 18.
Machine for working or disintegrating materials of all kinds, especially for husking grains. L. Zinsser. 2,166,652; July 18.
Magnetostrictive device. E. Lakatos. 2,166,359; July 18.
Manholes, Constructing concrete. J. M. Hardesty and S. M. Sutton. 2,166,632; July 18.
Marker, Road. F. J. Farrell. 2,166,669; July 18.
Material for cleaning and preparing metal or paint. H. R. Nellson. 2,166,476; July 18.
Material, Frozen. R. H. Bedford. 2,166,113; July 18.
Materials, Apparatus for coating metallic. J. L. Herman. 2,166,249; July 18.
Materials, Apparatus for coating metallic. J. L. Herman. 2,166,251; July 18.
Materials, Coating metallic. J. L. Herman. 2,166,250; July 18.
Maternity support. H. J. Lunney. 2,166,312; July 18.

Matrix making machine with pressure indicator. W. F. Huck. 2,166,153; July 18.
"Memo" stand. M. E. Duncan. 2,166,131; July 18.
Metal alloy. V. T. Malcolm. 2,166,844; July 18.
Metal parts, Building up. I. T. Bennett. 2,166,700; July 18.
Metal parts, Method and apparatus for cleaning. C. E. Severin. 2,166,644; July 18.
Metal radio tube. H. L. Thorson. 2,166,830; July 18.
Metal with aluminum or the like, Coating. M. G. Whitfield and V. Sheshunoff. 2,166,510; July 18.
Metals, Drawing. H. A. Montgomery. 2,166,173; July 18.
Metals from their ores, Apparatus for separating precious. J. L. Luckenbach. 2,166,167; July 18.
Metals, Treatment of. J. M. Michel. 2,166,365; July 18.
Metallurgical process. W. E. Greenawalt. 2,166,759; July 18.
Meter: *See*—
Flow meter.
Microphotographic apparatus. J. H. O'Neill. 2,166,419; July 18.
Milk bottle cabinet, Theftproof. R. W. Reed. 2,166,729; July 18.
Mine haulage unit. J. H. Fletcher. 2,166,135; July 18.
Mineral wool, Apparatus for making. D. C. Drill. 2,166,400; July 18.
Mining machine. L. E. Mitchell. 2,166,569; July 18.
Mining machine. L. E. Mitchell. 2,166,689; July 18.
Mirror. W. La Hodny and P. Bertell. 2,166,303; July 18.
Mixing and molding device. R. K. and J. E. Howle. 2,166,437; July 18.
Mixing apparatus. G. H. Haines. 2,166,403; July 18.
Mold and ingot, Ingot. E. Gathmann. 2,166,587; July 18.
Monitoring means for sound recorders. J. D. Stack. 2,166,185; July 18.
Mounting: *See*—
Door hook mounting. Piezoelectric mounting.
Floodlight mounting.
Mounting for prime movers to act on ground wheels, Adaptable. F. B. Smalley. 2,166,450; July 18.
Movement-producing device. L. K. Davis. 2,166,238–9; July 18.
Muffling device. W. A. Morrison. 2,166,218; July 18.
Multiple circuit switch. R. Popp and M. C. Carlton. 2,166,607; July 18.
Nitriles of the C_5-series and preparing them, Oxygen containing. E. O. Leupold and H. Vollmann. 2,166,600; July 18.
Nitrites and chromates, Alkali. N. A. Laury. 2,166,549; July 18.
Noise reduction system. E. O. Selby. 2,166,694; July 18.
Novelty, Advertising. A. Gelardin. 2,166,864; July 18.
Nozzle, Elastic fluid turbine. O. Rosenlocher. 2,166,823; July 18.
Nozzles, Making spray. J. F. Komar. 2,166,300; July 18.
Oil conversion, Hydrocarbon. J. G. Alther. 2,166,787; July 18.
Oil, Dewaxing hydrocarbon. W. P. Gee. 2,166,891; July 18.
Oil-feeding device for gas generators. W. C. Slade. 2,166,849; July 18.
Oil refining process. C. W. Woodworth. 2,166,193; July 18.
Oils and varnishes, Cooking of drying. H. V. A. Briscoe. 2,166,539; July 18.
Oils, Apparatus for distilling petroleum. J. E. Schulze. 2,166,374; July 18.
Oil composition, Parasiticidal spray. A. L. Lyman. 2,166,500; July 18.
Oils, Conversion of hydrocarbon. J. C. Morrell. 2,166,820; July 18.
Oils, Conversion of hydrocarbon. K. Swartwood. 2,166,829; July 18.
Oils, Refining. O. H. Milmore. 2,166,502–3; July 18.
Oils, Treating fatty. O. M. Behr. 2,166,103; July 18.
Oils, Treatment of hydrocarbon. E. P. King. 2,166,160; July 18.
Oiler, Pump-type. R. W. Shoemaker. 2,166,645; July 18.
Opening and closing mechanism for gates, doors and the like. D. Miller. 2,166,743; July 18.
Operating means for elevator doors. E. K. Johnson. 2,166,527; July 18.
Operating mechanism for hinged closures and the like. R. T. Axe. 2,166,710; July 18.
Operating mechanism for tilting receptacles. H. L. McFeaters. 2,166,663; July 18.
Ore concentration. H. H. Burton. 2,166,392; July 18.
Ore reduction process. W. G. Clark. 2,166,207; July 18.
Organ, Electric. H. F. Waters. 2,166,202; July 18.
Ornamental box. K. G. Nichols. 2,166,504; July 18.
Oscillations, Detecting high-frequency. F. Breyer. 2,166,124; July 18.
Oven, Electric. H. G. Worm. 2,166,778; July 18.
Oxygen concentration in a gaseous medium, Method and apparatus for indicating. F. R. Collbohm. 2,166,104; July 18.
Oxygen-convertible compositions. T. F. Bradley. 2,166,542; July 18.
Oxygen inhaling assembly. A. W. Adolphsen. 2,166,574; July 18.
Package and forming the same. D. M. McBean. 2,166,171; July 18.
Package and material for forming the same. H. F. Waters. 2,166,513; July 18.
Package for needles and the like. E. P. Byrnes and E. D. Davis. 2,166,714; July 18.
Package forming system, Fluid. L. L. Salfisberg. 2,166,643; July 18.
Packaging. R. M. Bergstein. 2,166,389; July 18.
Packing and insulating material. W. J. Kropp. 2,166,926; July 18.
Pad: *See*—
Protective pad.
Pad for duplicating machines, Ink. W. F. Herterich. 2,166,907; July 18.
Palette, Paint box. S. W. Wallace. 2,166,616; July 18.
Panel damping structure. T. M. Prudden. 2,166,848; July 18.
Paper, Shelf. K. C. Hamilton. 2,166,352; July 18.
Peanut product and method. R. N. Du Puis, C. W. Lenth, and J. B. Segur. 2,166,806; July 18.
Pencil, Mechanical. F. P. Cooper. 2,166,751; July 18.
Petroleum emulsions, Resolving. M. De Groote. 2,166,431–4; July 18.
Petroleum mahogany sulphonates, Purification of. M. Blumer. 2,166,117; July 18.
Phase correction mechanism, Integrating. P. A. Noxon. 2,166,505; July 18.
Photoacoustical apparatus. J. O. Baker. 2,166,672; July 18.
Photoelectric control of variable speed mechanism. W. R. Perry. 2,166,551; July 18.
Photographic emulsion. F. L. White and G. H. Keyes. 2,166,736; July 18.
Photographic processing. J. R. Weber and V. B. Scase. 2,166,617; July 18.
Piano action. C. H. Dasenbrook. 2,166,396; July 18.
Pickling method and apparatus, Continuous strip. R. A. Critten. 2,166,583; July 18.
Picture medium, Impressed. M. Finke. 2,166,289; July 18.
Piezoelectric apparatus and circuits. W. P. Mason. 2,166,763; July 18.
Piezoelectric crystal mounting. S. A. Bokovoy. 2,166,713; July 18.
Pigment and producing the same, Titanium. W. H. Madson. 2,166,257; July 18.
Pigments and producing the same, Tinted. J. E. Booge and A. B. Laftman. 2,166,230; July 18.
Pin: *See*—
Cotter pin.
Pipe: *See*—
Smoking pipe. Tobacco pipe.
Pipe carrier. S. P. Hull and J. J. Corcoran. 2,166,409; July 18.
Pipe connector. B. M. Brownell. 2,166,232; July 18.
Pipe feed device. J. F. Putnam. 2,166,609; July 18.
Pipe feeding and coupling device. W. R. Postlewaite. 2,166,608; July 18.
Pipes and the like of concrete or other cementitious material, Construction of. W. A. Porter. 2,166,175; July 18.
Planter, Potato. C. F. Schmidt. 2,166,732; July 18.
Plants, Termination of rest period of deciduous. A. M. Boyce, W. H. Chandler, and M. H. Kimball. 2,166,123; July 18.
Planter. L. R. King. 2,166,413; July 18.
Plastics, High-molecular sulphur-containing. R. Schröter and W. Becker. 2,166,507; July 18.
Plastics, Making shaped casein. J. A. Parsons. 2,166,550; July 18.
Plates, Apparatus for forming coated paper. P. R. Simmons. 2,166,268; July 18.
Poison mixture for trap gun cartridges. E. P. Marlman. 2,166,168; July 18.
Portable acetylene generator. H. Reiner. 2,166,552; July 18.
Potato cutter. L. S. Callen. 2,166,622; July 18.
Pouch, Tobacco. W. H. Shaw. 2,166,224; July 18.
Press: *See*—
Stop cylinder vertical reciprocating flat bed press.
Press inking mechanism, Printing. F. A. Foster. 2,166,631; July 18.
Press with variable retraction for platens, Hydraulic. P. C. Pocock and V. S. Shaw. 2,166,319; July 18.
Pressure transmission device, Fluid operated. B. A. Linderman. 2,166,165; July 18.
Propeller. E. W. Austin. 2,166,653; July 18.
Protective pad. S. Ash. 2,166,837; July 18.
Protective system and apparatus for discharge tubes. R. A. Henderson and V. D. Hauch. 2,166,685; July 18.
Protector: *See*—
Hose protector. Well casing protector.
Pump: *See*—
Centrifugal pump. Fuel pump.
Fuel injection pump.
Pump. H. L. Bancroft. 2,166,111; July 18.
Pump. O. Franck. 2,166,758; July 18.
Pump. B. H. Scott. 2,166,612; July 18.
Pump or motor. E. Benedek. 2,166,717; July 18.

Pump or motor, Variable displacement. E. K. Benedek. 2,166,114; July 18.
Push switch, Momentary contact. F. C. De Reamer. 2,166,803; July 18.
Pyrometer, High temperature. L. R. Runaldue. 2,166,824; July 18.
Races, Apparatus for reproducing. F. D. Ammon and W. H. Maxwell. 2,166,132; July 18.
Rack: *See*—
Display rack.
Radio reception, Method and apparatus for. K. W. Jarvis. 2,166,298; July 18.
Radio switch, Time controlled. M. S. Martigoni. 2,166,601; July 18.
Rail bond. H. P. Chandler. 2,166,655; July 18.
Rail joint system, Safety self-locking. A. B. Boluska. 2,166,654; July 18.
Ramp for the protection of hose pipes. G. A. Bainbridge. 2,166,516; July 18.
Recessing device. C. H. Woodcock. 2,166,923; July 18.
Receiving apparatus for communication systems. L. D. Whitelock. 2,166,274; July 18.
Receptacle: *See*—
Airtight receptacle. Folding packaging receptacle.
Display receptacle.
Reclaiming member and entrance guide for connectors. A. A. Berndt. 2,166,457; July 18.
Recorder, Drift. F. W. Lake and J. H. Wallace, Jr. 2,166,472; July 18.
Reel seat. D. Howarth. 2,166,407; July 18.
Refreshment bar, Private. C. Hardy. 2,166,633; July 18.
Refrigerating apparatus. J. A. Conrady. 2,166,677; July 18.
Refrigerating apparatus. C. F. Henney. 2,166,906 July 18.
Refrigerating apparatus. M. Kalischer. 2,166,158; July 18.
Refrigerating apparatus. L. A. Philipp. 2,166,506; July 18.
Refrigerating apparatus. L. A. Philipp. 2,166,908; July 18.
Refrigerating apparatus. S. M. Schweller. 2,166,707; July 18.
Refrigerating system. W. E. Whitney. 2,166,191; July 18.
Refrigeration. L. B. Betz. 2,166,283; July 18.
Refrigeration apparatus. G. F. Forsthoefel. 2,166,628; July 18.
Refrigerator. H. H. Bixler. 2,166,791; July 18.
Refrigerator car, Railroad. A. J. Hepp and R. A. Feind. 2,166,867; July 18.
Refrigerator control switch. E. C. Raney. 2,166,322; July 18.
Refrigeration control system. W. L. McGrath. 2,166,602; July 18.
Register, accounting, and the like machine, Cash. E. Breitling. 2,166,459; July 18.
Registers for fluid dispensing systems, Operating. P. S. Morgan. 2,166,531; July 18.
Regulator: *See*—
Compressor regulator.
Reinforcement member. W. H. Churchill. 2,166,889; July 18.
Relay construction. A. B. Rypinski and C. A. Bay. 2,166,327; July 18.
Relay, Electrical. B. Lazich and P. K. Eckhardt. 2,166,910; July 18.
Relay, Electromagnetic. C. H. Larson. 2,166,163; July 18.
Relay, Fluid pressure. A. Hochschulz. 2,166,705; July 18.
Relief valve. J. Briscoe and J. L. Corcoran. 2,166,390; July 18.
Relief valve. W. D. Schanck. 2,166,730; July 18.
Remote multiple indicator. W. A. Reichel and M. F. Ketay. 2,166,610; July 18.
Resins and compositions thereof, Polyvinyl acetal. K. G. Blaikie and R. N. Crozier. 2,166,856; July 18.
Respirator. W. H. Lehmberg. 2,166,164; July 18.
Ribbon strips, Producing multilayer. B. C. Miller. 2,166,819; July 18.
Road joint, Concrete. C. Older. 2,166,220; July 18.
Roadway for toy electric vehicles. A. E. Cullen. 2,166,752; July 18.
Rod mechanism for radical engines or pumps, Masterless connecting. B. Kahn. 2,166,909; July 18.
Roller bearing, Taper. W. L. Scribner. 2,166,377; July 18.
Roller retainer ring and race member assembly for roller bearings. V. L. Barr. 2,166,673; July 18.
Rollers of sawing machines, Apparatus for actuating the pressure. K. E. Evrell. 2,166,627; July 18.
Rolling, Method of. W. C. McBain. 2,166,418; July 18.
Roofing, Sheet metal. W. T. Williams. 2,166,275; July 18.
Rope and belt, Life saving. J. Frankel. 2,166,809; July 18.
Rubber composition and process. W. E. Reichard and R. R. Olin. 2,166,324; July 18.
Rubber curing apparatus. W. W. Knight. 2,166,597; July 18.
Rubber objects of fabric, Method and apparatus for molding and securing. H. Gora. 2,166,490; July 18.
Safety device. F. C. Best. 2,166,747; July 18.
Safety device, Motor vehicle. J. P. Caldwell. 2,166,580; July 18.
Sanitary pads, Apparatus for manufacturing compressed. L. F. Parker. 2,166,665; July 18.
Sash and store front constructions. C. D. Lowry. 2,166,361; July 18.
Sash, Ventilating window. H. M. McClure. 2,166,445; July 18.
Saw-filing apparatus. R. S. Hall and R. Denhard. 2,166,567; July 18.
Scoop, Ice cream. J. R. Gammeter. 2,166,810; July 18.
Scouring apparatus. E. C. Derks. 2,166,343; July 18.
Scraper, Citrus peel. R. D. Wehr. 2,166,883; July 18.
Screen control. S. Appel. 2,166,745; July 18.
Screens, Producing metallic. E. O. Norris. 2,166,366; July 18.
Screens, Production of metallic. E. O. Norris. 2,166,367; July 18.
Screw and nut for lifting jacks and similar devices, Ball-bearing. F. L. Gormley. 2,166,106; July 18.
Screw cutting die, Solid. T. Petersen. 2,166,369; July 18.
Screw, Self-locking adjusting. J. H. Hoern. 2,166,686; July 18.
Seal, Mercury. J. M. Halt. 2,166,405; July 18.
Seal with welded housing, Fluid. W. A. Heinze. 2,166,293; July 18.
Seams of sheet metal containers, Apparatus for soldering and coating side. A. L. Kronquest. 2,166,598; July 18.
Seat: *See*—
Reel seat.
Securing means for meat molds. A. Faulkner. 2,166,429; July 18.
Selectivity control system. J. M. Riddle, Jr. 2,166,693; July 18.
Semicoke or coke from carbonizable solid fuel material. A. Pott. 2,166,321; July 18.
Servo-brake mechanism for vehicles and the like. G. R. G. Gates. 2,166,586; July 18.
Sewing machine. L. Kaufman. 2,166,760; July 18.
Sewing machines, Tension device for. R. Casas Robert. 2,166,770; July 18.
Shaft bearing. T. F. W. Meyer. 2,166,259; July 18.
Shaker, Salt. C. A. Mandery. 2,166,725; July 18.
Shampoo composition. F. J. Cahn and M. B. Katzman. 2,166,127; July 18.
Shaving implement. J. Müros. 2,166,605; July 18.
Sheet feeding apparatus. F. W. Storck. 2,166,272; July 18.
Sheet metal snap hook. A. A. Rolan. 2,166,666; July 18.
Shirt. J. David. 2,166,342; July 18.
Shirt and band holder therefor to eliminate pins, Folded. L. Rechtschaffen. 2,166,642; July 18.
Shoe. E. W. Allen. 2,166,204; July 18.
Shoe bottom units, Manufacture of reinforced. J. M. Whelton. 2,166,421; July 18.
Shoe polishing device. W. B. Derbyshire. 2,166,521; July 18.
Shoe soles, Apparatus for applying linings to. M. P. Medwick and M. Fox. 2,166,765; July 18.
Shore heads, Form release. J. G. Bauer. 2,166,576; July 18.
Shutter for motion picture projectors, Safety. H. C. Wellman. 2,166,696; July 18.
Sign. E. L. Register. 2,166,571; July 18.
Sign with electric bulbs, Motor design. S. Miceli. 2,166,818; July 18.
Signal: *See*—
Truck signal.
Signal for vehicles, Direction. I. O. Foster. 2,166,862; July 18.
Signal system, Traffic. W. M. Jeffers. 2,166,721; July 18.
Signal transmitting system. S. J. Begun. 2,166,517; July 18.
Signaling apparatus, Projecting means for submarine. W. Kunze. 2,166,162; July 18.
Signaling system. J. L. Finch. 2,166,756; July 18.
Signaling system. G. N. Saul. 2,166,536; July 18.
Silencer. R. L. Hoyle. 2,166,408; July 18.
Silencer. W. L. Manning. 2,166,417; July 18.
Silencer. H. Martin. 2,166,670; July 18.
Silk, Artificial. H. Karplus. 2,166,741; July 18.
Silk, Manufacture of artificial. H. Karplus. 2,166,739–40; July 18.
Sink trap, Visible sanitary. A. B. Barwick. 2,166,279; July 18.
Siphon, Condensate. L. D. Goff and R. O. Monroe. 2,166,245; July 18.
Skate, Roller. H. Pétermann. 2,166,767; July 18.
Skiving machine. L. J. Bazzoni. 2,166,280; July 18.
Sleeve, Raincoat. B. B. Spatz. 2,166,328; July 18.
Slicing machine. J. Swofford. 2,166,648; July 18.
Slider for slide fasteners. N. J. Poux. 2,166,905; July 18.
Slider lock. A. E. Carlile. 2,166,581; July 18.
Slug-casting machine. R. R. Mead. 2,166,170; July 18.
Slug handling and treating mechanism. J. H. Fridén. 2,166,209; July 18.
Smoking pipe. A. B. Modine. 2,166,172; July 18.
Snow plow. F. Coates. 2,166,424; July 18.
Snow plow, Rotary. B. R. Watkins. 2,166,667; July 18.
Socket and installation thereof, Snap fastener. E. E. Jones. 2,166,894; July 18.
Socket for electric plug couplings, Spring. G. Wagstaff. 2,166,897; July 18.

Sole for shoes, Auxiliary calked. J. Opyt. 2,166,317; July 18.
Sound recording. G. L. Dimmick. 2,166,718; July 18.
Sound reproducing system. R. S. Anderson. 2,166,838; July 18.
Sound translating apparatus. G. E. Atkins. 2,166,515; July 18.
Spark suppressor resistor. G. M. Ehlers. 2,166,755; July 18.
Specific gravity of liquid media and the protein content of blood, Apparatus for determining the. B. M. Kagan. 2,166,842; July 18.
Spectacles. N. T. Baidanza. 2,166,110; July 18.
Splint, Spinal reduction. R. Anderson. 2,166,229; July 18.
Sprag device for vehicles. A. J. Warwick. 2,166,512; July 18.
Spring mechanism for railway vehicles. K. Rabe. 2,166,769; July 18.
Spring retainer. C. C. Richard. 2,166,559; July 18.
Spring suspension and mounting. G. H. Parker. 2,166,822; July 18.
Springing arrangement for vehicles. H. J. Schuh and W. Boxan. 2,166,880; July 18.
Stand: *See*—
"Memo" stand.
Stampings, Producing. J. Vehko. 2,166,226; July 18.
Station equipment. T. L. Hollister. 2,166,591; July 18.
Steel, Heat treating spheroidized. W. J. Conley. 2,166,839; July 18.
Steering apparatus, Combination hand and power. M. B. Benson. 2,166,206; July 18.
Stencil decorating. Apparatus for. J. C. Smith. 2,166,269; July 18.
Stepladder. J. H. Ligon. 2,166,255; July 18.
Stereopticon slide. M. Banner. 2,166,335; July 18.
Sterilizer for hypodermic syringes and the like, Electric. R. V. Brandt. 2,166,284; July 18.
Stock car. D. S. and D. B. Munro. 2,166,475; July 18.
Stocking or the like, Woman's. R. Bloch. 2,166,748; July 18.
Stop cylinder vertical reciprocating flat bed press. P. F. Cox. 2,166,582; July 18.
Stopper and strainer, Combination sink. J. Ulmer. 2,166,273; July 18.
Storage and dispensing system for liquefied gas. L. J. White. 2,166,921; July 18.
Stove, Cooking. B. B. Kahn. 2,166,442; July 18.
Straightening tool. E. H. Schultz. 2,166,373; July 18.
Strip for airplane wing and control surface covers, Load. K. Schmidt. 2,166,182; July 18.
Styrene, Preservation and utilization of. J. W. Britton, R. F. Prescott, and R. C. Dosser. 2,166,125; July 18.
Sunshade attachment for deck chairs and the like. H. Wenker. 2,166,832; July 18.
Sunshade, Collapsible. F. Deak. 2,166,625; July 18.
Support: *See*—
Maternity support.
Supporting means. A. H. Gaebel. 2,166,523; July 18.
Surface cooler. A. O. Flindt. 2,166,808; July 18.
Surface decoating method and apparatus. H. E. Gundlach. 2,166,138; July 18.
Suspension device. E. Oettel. 2,166,533; July 18.
Suspension device. W. White. 2,166,884; July 18.
Switch: *See*—
Electric switch.
Impulse switch.
Multiple circuit switch.
Push switch.
Radio switch.
Refrigerator control switch.
Switching means. E. G. Lacey. 2,166,498; July 18.
Switching mechanism. W. H. Matthies. 2,166,764; July 18.
Synchronizing apparatus. V. Aigner. 2,166,785; July 18.
Synchronizing apparatus. M. Wilfart. 2,166,833; July 18.
Table: *See*—
Work supporting table.
Table construction. P. Rosenberg. 2,166,196; July 18.
Table construction. P. Rosenberg and E. Mically. 2,166,195; July 18.
Tablet making machine. C. H. Whittemore. 2,166,192; July 18.
Tag-line device. W. Ruddock. 2,166,479; July 18.
Tank: *See*—
Expansion tank.
Tank bottoms, Treating petroleum. F. E. Holsten. 2,166,893; July 18.
Tank for vehicles, Demountable. B. F. Fitch. 2,166,134; July 18.
Tap with anchor clamp, Trolley wire. V. A. Curry. 2,166,656; July 18.
Tape, Concealed carpet tacking. T. W. Bernhardt. 2,166,578; July 18.
Tapes to continuous strips of fabric, Device and method for attaching continuous zipper and slide fastener. E. Freshman. 2,166,350; July 18.
Telephone system. R. Taylor and G. T. Baker. 2,166,329; July 18.
Telescope comprising two refracting and one reflecting systems. H. Wild. 2,166,102; July 18.
Television and like receiver. H. M. Dowsett and R. Cadzow. 2,166,399; July 18.
Television apparatus. R. D. Kell. 2,166,688; July 18.
Television system. A. V. Bedford. 2,166,712; July 18.
Television system. R. D. Kell. 2,166,214; July 18.
Television system. I. L. Maguire. 2,166,313; July 18.
Temperature, Method and apparatus for control of. M. R. Doolittle. 2,166,242; July 18.
Temperature modulating system. P. B. Parks and W. M. Smith. 2,166,263; July 18.
Tension jar mechanism, Rotary adjustable. S. J. Kennedy and J. R. Pierson. 2,166,299; July 18.
Textile apparatus. S. Magnano and W. G. Abbott, Jr. 2,166,843; July 18.
Thresher. A. G. Lindgren and C. R. Raney. 2,166,416; July 18.
Thyratron welding control. L. G. Levoy, Jr., and G. W. Garman. 2,166,305; July 18.
Tin plate, Shipping. G. S. Jenks. 2,166,594; July 18.
Tire chain clamp. R. E. Lees and J. S. Wilson. 2,166,869; July 18.
Tire, Pneumatic. E. Witzenmann. 2,166,511; July 18.
Titanates, Producing pigment. G. D. Patterson. 2,166,221; July 18.
Tobacco pipe. B. M. Shoemaker. 2,166,537; July 18.
Tool: *See*—
Hair dressing and curling tool.
Straightening tool.
Top for camera stands, Reversible. G. Matrat. 2,166,258; July 18.
Torque converter, Hydraulic. W. Black. 2,166,792; July 18.
Toy typewriter. H. Bates. 2,166,112; July 18.
Tractor. E. A. Johnston and G. W. Engstrom. 2,166,411; July 18.
Traffic controlling apparatus, Railway. B. E. O'Hagan. 2,166,316; July 18.
Traffic controlling system for railroads, Centralized. R. D. Preston. 2,166,178; July 18.
Traffic controlling system for railroads, Centralized. R. F. Wells. 2,166,189; July 18.
Traffic warning device. P. Nielsen. 2,166,821; July 18.
Trailer construction, Automatic. J. B. McCalley. 2,166,846; July 18.
Trailer dumping apparatus. A. H. Kirksey. 2,166,722; July 18.
Trailer hitch and brake. F. J. Bradley. 2,166,738; July 18.
Transference apparatus. S. T. Martin. 2,166,169; July 18.
Transformer. A. D. Silva and B. H. Irwin. 2,166,613; July 18.
Transmission clutch, Automatic. R. E. Keller. 2,166,357; July 18.
Trap: *See*—
Ash trap.
Sink trap.
Trim and making, Concrete window. E. G. Livesay. 2,166,870; July 18.
Trim panels, Forming inner. A. H. Haberstump. 2,166,435; July 18.
Truck, Railway. E. Bugatti. 2,166,858; July 18.
Truck signal. N. B. Challoner. 2,166,520; July 18.
Trunks, Bathing. W. Zapis. 2,166,514; July 18.
Tube: *See*—
Metal radio tube.
Tube for frequency multiplification, Magnetron discharge. K. Fritz. 2,166,210; July 18.
Tubes, Connected collapsible twin. L. L. Libby. 2,166,307; July 18.
Tubing for refrigerating apparatus, Making. J. Karmazin. 2,166,109; July 18.
Tuning control system for high fidelity receivers. G. L. Beers. 2,166,675; July 18.
Tuning control system for radio receivers. V. T. Paré. 2,166,691; July 18.
Typewriter. A. Vogt. 2,166,383; July 18.
Typographical composing machine. R. R. Mead. 2,166,726; July 18.
Typographical slug casting machine. H. Ellis. 2,166,719; July 18.
Umbrella handle. R. U. Staley. 2,166,562; July 18.
Upholstery clip. C. J. Rennekamp. 2,166,553; July 18.
Vacuum drier. C. Hagen. 2,166,351; July 18.
Valve: *See*—
Disk type valve.
Relief valve.
Valve converting system, Electric. A. Schmidt, Jr. 2,166,825; July 18.
Valve for pneumatic tires, Alarm. W. H. West. 2,166,384; July 18.
Valve operating mechanism. D. D. Goldberg. 2,166,840; July 18.
Valve-operating mechanism. M. P. Laurent. 2,166,304; July 18.
Valves for internal combustion engines, Apparatus for cooling fuel. E. Waeber. 2,166,331; July 18.
Vamp and wheel jack, Combination wheel. H. H. Polk and W. J. Marks. 2,166,477; July 18.
Vat, Cheese. C. Derleth. 2,166,753; July 18.
Vegetable cutter. B. Cohn and L. A. Swarthe. 2,166,624; July 18.
Venetian blind tape holder. H. Konen. 2,166,301; July 18.
Vibratory members, Damping. R. R. Riesz. 2,166,326; July 18.
Wall cabinet. E. E. Green. 2,166,430; July 18.
Waste disposal apparatus. A. Alexay. 2,166,786; July 18.

Watch, Combination wrist. H. A. Kehl. 2,166,687; July 18.
Water closet. J. M. Teahen. 2,166,573; July 18.
Weaver's loom. H. A. Lervad. 2,166,415; July 18.
Weaving. G. E. and R. H. Webster. 2,166,668; July 18.
Web splicing apparatus. H. A. W. Wood. 2,166,737; July 18.
Wedge for use with wall ties. A. M. and C. A. Kinninger. 2,166,444; July 18.
Welding apparatus with coated electrodes, Arc. L. Müller. 2,166,638; July 18.
Well casing protector. W. I. Bettis. 2,166,116; July 18.
Well depths and well strings, Apparatus for measuring. J. T. Hayward. 2,166,212; July 18.
Wheel. A. S. Van Halteren. 2,166,695; July 18.
Wheel assembly, Fifth. O. A. Logan. 2,166,308; July 18.
Wheel assembly, Steering. H. D. Geyer. 2,166,290; July 18.
Wheel attachment, Steering. D. S. Hoover. 2,166,296; July 18.
Wheel brake, Nonspin. E. E. Van Cleave. 2,166,201; July 18.
Wheel disk construction. G. A. Lyon. 2,166,216; July 18.
Wheel suspension for automobiles, Independent. A. Perron. 2,166,368; July 18.
Window control device. R. A. Baird. 2,166,481; July 18.
Windshield. A. Jensen. 2,166,108; July 18.
Wire clamp. J. E. Miller and P. L. Osweiler. 2,166,847; July 18.
Wire knotting machine. S. S. Marcus and S. Krakauer. 2,166,636; July 18.
Wireless receiving apparatus, Controlling. J. H. Naden. 2,166,636; July 18.
Wood converting machine, Portable. G. C. Wetherbee. 2,166,455; July 18.
Wood pulp or the like with chemical reagents, Apparatus for treating. C. B. Thorne. 2,166,200; July 18.
Woodworking machine. J. E. Boice. 2,166,703; July 18.
Woodworking machine. C. Wazac, Sr. 2,166,831; July 18.
Work supporting table. G. A. Carlson. 2,166,461; July 18.
Working and kneading apparatus. J. Schaub. 2,166,197; July 18.
Wrapping machine. K. W. Lum and A. B. Vinogradoff. 2,166,473; July 18.
Wrench: *See*—
Basin wrench.
Yarn conditioner, Textile machine. H. Janssen. 2,166,548; July 18.
Yeast, Manufacture of. H. H. Browne. 2,166,339; July 18.
Zinc alloy, Deep-drawing. K. Bayer and A. Burkhardt. 2,166,338; July 18.
Zinc alloy, Machinable plastic. A. Burkhardt and W. Wolf. 2,166,341; July 18.
Zinc alloy of constant dimensions, Plastic. A. Burkhardt. 2,166,340; July 18.
Zinc chloride. R. J. Kepfer and A. K. Telfer. 2,166,253; July 18.

CLASSIFICATION OF PATENTS

ISSUED JULY 18, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

2— 13: 2,166,110
39: 2,166,227
41: 2,166,312
67: 2,166,514
83: 2,166,727
98: 2,166,566
116: 2,166,342
137: 2,166,425
179: 2,166,337
269: 2,166,328
4— 69: 2,166,573
112: 2,166,480
181: 2,166,469
287: 2,166,273
8— 105: 2,166,330
10— 111: 2,166,369
11— 1: 2,166,519
12— 17: 2,166,482
20: 2,166,765
49.1: 2,166,280
66: 2,166,888
146: 2,166,421
13— 29: 2,166,734
15— 9: 2,166,863
230: 2,166,343
266: 2,166,521
16— 16: 2,166,578
54: 2,166,651
137: 2,166,815
147: 2,166,534
18— 2: 2,166,490
5: 2,166,665
6: 2,166,597
19: 2,166,215
48: 2,166,550
54: 2,166,739
2,166,741
59: 2,166,798
2,166,879
19— 75: 2,166,925
156: 2,166,811
20— 16: 2,166,898
20: 2,166,746
35: 2,166,588
2,166,629
40.5: 2,166,108
2,166,146
53: 2,166,445
56.4: 2,166,361
21— 86: 2,166,284
22— 139: 2,166,587
203: 2,166,634
23— 5: 2,166,253
51: 2,166,221
53: 2,166,246
56: 2,166,549
102: 2,166,702
103: 2,166,579
199: 2,166,611
232: 2,166,104
235: 2,166,266
250: 2,166,362
2,166,363
24— 73: 2,166,553
2,166,916
81: 2,166,457
2,166,847
2,166,884
178: 2,166,903
205: 2,166,885
2,166,905
216: 2,166,894
230: 2,166,466
2,166,902
234: 2,166,666
248: 2,166,474
25— 30: 2,166,175
131: 2,166,444
131.5: 2,166,576
28— 1: 2,166,740
41: 2,166,843

29— 96: 2,166,826
156: 2,166,109
157: 2,166,300
157.5: 2,166,890
30— 43: 2,166,605
31— 35: 2,166,197
33—126.4: 2,166,779
134: 2,166,212
178: 2,166,650
204: Re.21,156
2,166,920
205.5: 2,166,472
34— 4: 2,166,245
5: 2,166,294
23: 2,166,351
39: 2,166,467
48: 2,166,379
35— 24: 2,166,853
34: 2,166,372
36— 7.7: 2,166,317
55: 2,166,204
37— 42: 2,166,424
43: 2,166,667
143: 2,166,800
144: 2,166,105
175: 2,166,596
40— 5: 2,166,835
125: 2,166,303
2,166,571
128: 2,166,520
130: 2,166,864
139: 2,166,818
158: 2,166,641
41— 5: 2,166,616
9: 2,166,428
10: 2,166,352
42— 1: 2,166,468
43— 1: 2,166,585
22: 2,166,407
35: 2,166,311
50: 2,166,463
45— 64: 2,166,485
68.4: 2,166,837
46— 40: 2,166,854
138: 2,166,572
47— 58: 2,166,123
61 Pl.Pt.335
48— 8: 2,166,552
72: 2,166,849
2,166,850
178: 2,166,156
180: 2,166,720
49— 1: 2,166,871
14: 2,166,563
45: 2,166,348
2,166,427
51— 65: 2,166,773
80: 2,166,356
108: 2,166,859
141: 2,166,676
170: 2,166,757
2,166,861
184.3: 2,166,281
222: 2,166,855
237: 2,166,461
278: 2,166,570
53— 10: 2,166,451
55— 83: 2,166,678
106: 2,166,626
56— 312: 2,166,723
58— 88: 2,166,687
60— 52: 2,166,423
54: 2,166,792
54.6: 2,166,493
2,166,724
2,166,742
97: 2,166,319
61— 40: 2,166,632
63: 2,166,865
62— 1: 2,166,911
2,166,912
2,166,913

62— 1: 2,166,914
2,166,915
2,166,921
2,166,922
3: 2,166,908
4: 2,166,602
6: 2,166,813
2,166,906
19: 2,166,867
89: 2,166,283
91.5: 2,166,401
2,166,637
108.5: 2,166,560
115: 2,166,158
2,166,190
2,166,191
116: 2,166,506
2,166,791
117: 2,166,635
118: 2,166,677
126: 2,166,161
64— 11: 2,166,376
65— 45: 2,166,302
2,166,725
66— 81: 2,166,494
82: 2,166,851
125: 2,166,548
170: 2,166,166
67— 7.1: 2,166,881
70— 9: 2,166,660
65: 2,166,860
68: 2,166,581
358: 2,166,690
72— 1: 2,166,577
30: 2,166,371
98: 2,166,870
116: 2,166,443
73— 4: 2,166,595
2,166,603
51: 2,166,842
232: 2,166,531
299: 2,166,904
336: 2,166,697
74— 1: 2,166,378
11: 2,166,270
22: 2,166,840
36: 2,166,565
97: 2,166,239
128: 2,166,716
242.16: 2,166,406
389: 2,166,896
395: 2,166,873
459: 2,166,106
505: 2,166,201
2,166,256
513: 2,166,128
552: 2,166,290
557: 2,166,296
75— 11: 2,166,207
76: 2,166,354
84: 2,166,659
91: 2,166,759
93: 2,166,671
126: 2,166,844
136: 2,166,795
141: 2,166,495
142: 2,166,496
165: 2,166,768
178: 2,166,338
2,166,340
2,166,341
76— 36: 2,166,567
77— 62: 2,166,692
80— 1: 2,166,644
60: 2,166,418
81—15.8: 2,166,869
98: 2,166,449
83— 30: 2,166,652
91: 2,166,400
84—1.17: 2,166,202
240: 2,166,396

84— 415: 2,166,733
85— 8.5: 2,166,614
87— 5: 2,166,127
2,166,314
2,166,315
9: 2,166,286
88— 1.5: 2,166,148
14.8: 2,166,706
16.2: 2,166,147
19.4: 2,166,696
22.5: 2,166,824
24: 2,166,419
2,166,878
26: 2,166,335
32: 2,166,102
100: 2,166,430
90— 12: 2,166,923
91—12.5: 2,166,249
2,166,251
47: 2,166,268
68: 2,166,261
2,166,325
2,166,513
2,166,711
70.2: 2,166,250
70.3: 2,166,510
92— 9: 2,166,540
93— 2: 2,166,473
3: 2,166,389
2,166,643
36.01: 2,166,388
36.6: 2,166,126
2,166,287
94— 1.5: 2,166,669
18: 2,166,219
2,166,220
95— 2: 2,166,617
6: 2,166,181
2,166,546
7: 2,166,736
57: 2,166,471
100: 2,166,387
96— 15: 2,166,336
24: 2,166,748
99— 83: 2,166,797
128: 2,166,806
193: 2,166,278
195: 2,166,113
100— 48: 2,166,547
101— 35: 2,166,138
123: 2,166,269
125: 2,166,907
265: 2,166,582
351: 2,166,271
365: 2,166,631
102— 24: 2,166,154
103— 10: 2,166,836
41: 2,166,876
87: 2,166,758
113: 2,166,388
2,166,530
114: 2,166,436
153: 2,166,169
157: 2,166,111
161: 2,166,114
2,166,717
181: 2,166,612
206: 2,166,426
104— 52: 2,166,591
140: 2,166,752
275: 2,166,516
105— 182: 2,166,858
369: 2,166,918
107— 8: 2,166,380
14: 2,166,260
17: 2,166,192
22: 2,166,159
48: 2,166,810
54: 2,166,568
108— 18: 2,166,275
110— 147: 2,166,834

112— 2: 2,166,350
132: 2,166,760
113— 60: 2,166,598
116: 2,166,226
121: 2,166,501
114— 146: 2,166,206
115— 18: 2,166,234
119— 8: 2,166,475
120— 8: 2,166,344
14: 2,166,751
32: 2,166,508
121— 35: 2,166,218
120: 2,166,909
122— 33: 2,166,188
235: 2,166,199
406: 2,166,509
123— 51: 2,166,211
66: 2,166,464
117: 2,166,525
122: 2,166,398
177: 2,166,331
191: 2,166,679
126— 214: 2,166,442
242: 2,166,291
365: 2,166,355
128— 84: 2,166,229
146: 2,166,164
185: 2,166,574
130— 27: 2,166,416
131— 39: 2,166,486
184: 2,166,537
198: 2,166,172
132— 1: 2,166,558
13: 2,166,295
35: 2,166,203
40: 2,166,386
50: 2,166,460
134— 1: 2,166,541
26: 2,166,539
58: 2,166,257
78: 2,166,230
135— 5: 2,166,625
2,166,832
46: 2,166,562
137— 53: 2,166,384
2,166,390
68: 2,166,370
139: 2,166,866
153: 2,166,705
157: 2,166,165
139— 33: 2,166,415
2,166,668
96: 2,166,895
140— 101: 2,166,636
143— 17: 2,166,455
84: 2,166,627
174: 2,166,703
144— 84: 2,166,831
145— 33: 2,166,446
146— 49: 2,166,883
101: 2,166,648
139: 2,166,624
168: 2,166,622
192: 2,166,786
148— 8: 2,166,476
2,166,583
13.1: 2,166,365
21.5: 2,166,839
150— 28: 2,166,217
2,166,360
151— 22: 2,166,686
152— 157: 2,166,511
220: 2,166,454
153— 16: 2,166,347
154— 2: 2,166,435
32: 2,166,749
40: 2,166,819
44: 2,166,848
2,166,926

154— 46: 2,166,289
156— 17: 2,166,301
2,166,599
35: 2,166,745
158—23.2: 2,166,334
91: 2,166,231
161— 1: 2,166,683
9: 2,166,872
166— 19: 2,166,488
2,166,489
2,166,715
167— 22: 2,166,119
2,166,120
28: 2,166,500
31: 2,166,121
2,166,122
33: 2,166,115
46: 2,166,168
72: 2,166,868
169— 26: 2,166,277
170— 163: 2,166,653
171— 97: Re.21,155
2,166,827
118: 2,166,785
119: 2,166,613
209: 2,166,515
312: 2,166,187
314: 2,166,788
327: 2,166,713
172— 179: 2,166,316
245: 2,166,833
274: 2,166,801
279: 2,166,323
173— 280: 2,166,655
328: 2,166,345
2,166,346
2,166,897
330: 2,166,453
2,166,621
174— 72: 2,166,420
94: 2,166,458
107: 2,166,796
175— 21: 2,166,841
41: 2,166,139
2,166,205
183: 2,166,385
315: 2,166,179
2,166,180
320: 2,166,763
363: 2,166,814
2,166,825
2,166,900
364: 2,166,155
176— 122: 2,166,781
177— 311: 2,166,404
2,166,610
329: 2,166,862
337: 2,166,721
352: 2,166,536
178— 5.6: 2,166,247
7.2: 2,166,214
2,166,712
7.5: 2,166,399
7.6: 2,166,313
44: 2,166,359
53: 2,166,505
66: 2,166,756
179— 1: Re.21,151
2,166,517
2,166,529
2,166,775
16: 2,166,329
27.54: 2,166,764
100.3: 2,166,185
2,166,186
2,166,491
2,166,672
2,166,718
171: 2,166,184
180— 19: 2,166,450

180— 22: 2,166,411
181— 0.5: 2,166,162
27: 2,166,821
31: 2,166,838
50: 2,166,417
54: 2,166,408
56: 2,166,670
182— 19: 2,166,279
188— 2: 2,166,882
30: 2,166,512
56: 2,166,887
78: 2,166,157
2,166,754
79.5: 2,166,793
110: 2,166,580
112: 2,166,738
140: 2,166,586
142: 2,166,452
152: 2,166,804
205: 2,166,886
189— 1: 2,166,658
88: 2,166,889
190— 41: 2,166,262
191— 12: 2,166,656
192— 105: 2,166,357
195— 90: 2,166,339
196— 1: 2,166,193
4: 2,166,431
2,166,432
2,166,433
2,166,434
5: 2,166,893
10: 2,166,129
13: 2,166,140
2,166,160
18: 2,166,891
34: 2,166,502
2,166,503
49: 2,166,177
2,166,787
2,166,829
50: 2,166,544
52: 2,166,176
58: 2,166,820
114: 2,166,374
197— 25: 2,166,383
47: 2,166,112
63: Re.21,152
153: 2,166,288
198— 139: 2,166,447
162: 2,166,776
210: 2,166,381
199— 27: 2,166,726
49: 2,166,719
50: 2,166,170
200— 1: 2,166,680
6: 2,166,607
17: 2,166,137
27: 2,166,901
200— 38: 2,166,601
52: 2,166,481
81: 2,166,264
83: 2,166,322
88: 2,166,555
93: 2,166,327
97: 2,166,163
114: 2,166,782
115.5: 2,166,254
116: 2,166,545
131: 2,166,174
137: 2,166,238
147: 2,166,828
150: 2,166,590
152: 2,166,410
159: 2,166,803
166: 2,166,248
201— 63: 2,166,755
64: 2,166,807
202— 33: 2,166,321
39: 2,166,584
57: 2,166,125
204— 6: 2,166,366
2,166,367
205— 8: 2,166,173
206— 46: 2,166,526
56: 2,166,619
60: 2,166,594
66: 2,166,714
80: 2,166,786
207— 1: 2,166,209
209— 183: 2,166,167
240: 2,166,438
455: 2,166,392
211— 71: 2,166,708
116: 2,166,592
119.15: 2,166,771
119.18: 2,166,649
153: 2,166,707
212— 42: 2,166,479
214— 1: 2,166,608
2,166,609
16: 2,166,704
18: 2,166,593
52: 2,166,561
67: 2,166,846
216— 12: 2,166,497
25: 2,166,761
219— 8: 2,166,638
10: 2,166,700
220— 9: 2,166,628
2,166,630
221— 11: 2,166,783
221— 47: 2,166,465
51: 2,166,645
60: 2,166,107
2,166,307
95: 2,166,618
2,166,924
135: 2,166,413
2,166,732
145: 2,166,484
223— 71: 2,166,642
2,166,470
226— 80: 2,166,784
88: 2,166,382
108: 2,166,528
227— 49: 2,166,777
2,166,809
228— 17: 2,166,255
229— 3.5: 2,166,224
5.5: 2,166,265
8: 2,166,504
17: 2,166,222
29: 2,166,762
41: 2,166,422
51: 2,166,171
230— 29: 2,166,789
56: 2,166,780
114: 2,166,276
117: 2,166,647
232— 41: 2,166,729
57.5: 2,166,639
235— 61: 2,166,845
138: 2,166,459
236— 9: 2,166,623
44: 2,166,799
68: 2,166,263
74: 2,166,242
237— 66: 2,166,235
238— 250: 2,166,654
240— 1.2: 2,166,393
2: 2,166,267
10.6: 2,166,682
10.61: 2,166,657
10.68: 2,166,282
41.4: 2,166,684
52: 2,166,394
73: 2,166,149
2,166,790
78: 2,166,646
242— 55.5: 2,166,320
2,166,349
56: 2,166,852
58: 2,166,737
71: 2,166,543
84.5: 2,166,662
118: 2,166,243
148: 2,166,770
244— 42: 2,166,292
49: 2,166,564
84: 2,166,241
244— 132: 2,166,182
135: 2,166,575
246— 3: 2,166,178
2,166,189
2,166,194
41: 2,166,910
248— 187: 2,166,258
226: 2,166,533
292: 2,166,523
346: 2,166,470
250— 20: 2,166,274
2,166,298
2,166,522
2,166,532
2,166,674
2,166,675
2,166,691
2,166,693
2,166,694
2,166,805
25: 2,166,124
27: Re.21,153
2,166,305
2,166,306
2,166,309
2,166,310
2,166,685
27.5: 2,166,744
2,166,817
2,166,830
33: 2,166,237
2,166,589
2,166,750
36: 2,166,210
2,166,538
2,166,688
66: 2,166,440
251— 52: 2,166,304
90: 2,166,875
252— 3: 2,166,227
253— 78: 2,166,823
254— 88: 2,166,477
134: 2,166,373
255— 19: 2,166,395
27: 2,166,299
64: 2,166,478
71: 2,166,664
72: 2,166,462
257— 3: Re.21,154
37: 2,166,397
208: 2,166,753
248: 2,166,808
259— 9: 2,166,403
47: 2,166,437
95: 2,166,200
260— 6: 2,166,542
36: 2,166,518
2,166,557
73: 2,166,856
260— 79: 2,166,507
107: 2,166,812
113: 2,166,133
118: 2,166,297
128: 2,166,661
140: 2,166,681
251: 2,166,233
309: 2,166,198
314: 2,166,213
2,166,240
341: 2,166,556
374: 2,166,353
397: 2,166,877
400: 2,166,141
2,166,142
2,166,143
407: 2,166,103
464: 2,166,600
465: 2,166,487
466: 2,166,698
481: 2,166,144
2,166,145
504: 2,166,117
515: 2,166,554
583: 2,166,150
2,166,151
2,166,152
2,166,183
612: 2,166,917
624: 2,166,136
723: 2,166,236
728: 2,166,324
735: 2,166,604
805: 2,166,223
261— 28: 2,166,772
52: 2,166,899
104: 2,166,414
262— 9: 2,166,569
28: 2,166,689
263— 51: 2,166,375
265— 47: 2,166,153
2,166,244
2,166,699
266— 2: 2,166,919
6: 2,166,731
39: 2,166,663
267— 1: 2,166,326
21: 2,166,880
54: 2,166,822
57: 2,166,769
268— 34: 2,166,743
53: 2,166,527
96: 2,166,441
108: 2,166,710
270— 56: 2,166,709
271— 2.3: 2,166,551
43: 2,166,272
272— 5: 2,166,132
273— 97: 2,166,115
273— 121: 2,166,228
277— 20: 2,166,730
279— 30: 2,166,559
280— 2: 2,166,135
5: 2,166,134
11.22: 2,166,767
33.1: 2,166,308
33.15: 2,166,208
124: 2,166,368
2,166,456
2,166,774
281— 1: 2,166,802
11: 2,166,131
282— 25: 2,166,439
284— 17: 2,166,874
285— 78: 2,166,524
81: 2,166,448
140: 2,166,412
163: 2,166,292
169: 2,166,402
286— 9: 2,166,405
287— 52: 2,166,391
53: 2,166,130
288— 3: 2,166,293
290— 38: 2,166,498
292— 5: 2,166,535
39: 2,166,318
101: 2,166,620
128: 2,166,499
218: 2,166,429
224: 2,166,735
293— 55: 2,166,483
2,166,816
298— 22: 2,166,722
35: 2,166,892
301— 6: 2,166,695
37: 2,166,216
303— 84: 2,166,747
308— 4: 2,166,116
7: 2,166,409
21: 2,166,252
26: 2,166,259
88: 2,166,606
163: 2,166,285
213: 2,166,673
214: 2,166,377
309— 8: 2,166,857
311— 4: 2,166,195
2,166,196
312— 1: 2,166,640
163: 2,166,633

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,166,103: 260— 407
2,166,104: 23— 232
2,166,109: 29— 156
2,166,119: 167— 22
2,166,126: 93— 36.6
2,166,132: 272— 5
2,166,134: 280— 5
2,166,202: 84— 1.17
2,166,223: 260— 805
2,166,236: 260— 723
2,166,253: 23— 5
2,166,255: 228— 17
2,166,266: 23— 235
2,166,303: 40— 125
2,166,324: 260— 728
2,166,326: 267— 1
2,166,355: 126— 365
2,166,364: 148— 27
2,166,372: 35— 34
2,166,384: 137— 53
2,166,408: 181— 54
2,166,417: 181— 50
2,166,436: 103— 114
2,166,448: 285— 84
2,166,457: 24— 81
2,166,509: 122— 406
2,166,523: 248— 292
2,166,526: 206— 46
2,166,533: 248— 226
2,166,537: 131— 184
2,166,577: 72— 1
2,166,582: 101— 265
2,166,596: 37— 175
2,166,609: 214— 1
2,166,612: 103— 181
2,166,619: 206— 56
2,166,623: 236— 9
2,166,626: 55— 106
2,166,633: 312— 163
2,166,648: 146— 101
2,166,649: 211-119.18
2,166,661: 260— 128
2,166,665: 18— 5
2,166,729: 232— 41
2,166,735: 292— 22
2,166,743: 268— 34
2,166,751: 120— 14
2,166,752: 104— 140
2,166,758: 103— 87
2,166,760: 112— 132
2,166,771: 211-119.15
2,166,772: 261— 28
2,166,780: 230— 56
2,166,847: 24— 81
2,166,850: 48— 72
2,166,884: 24— 81
2,166,906: 62— 6
2,166,922: 62— 1

U. S. GOVERNMENT PRINTING OFFICE: 1939

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abbott Laboratories, North Chicago, Ill. Soaps. Serial No. 418,623; July 25. Class 4.
Abeel, Edith F., Jamesburg, N. J. Fresh potatoes and apples, canned beans, etc. Serial Nos. 419,327–8; July 25. Class 46.
Acme Backing Corporation, New York, N. Y. Piece goods. Serial No. 418,285; July 25. Class 42.
Agfa Ansco Corporation, Binghamton, N. Y. Sensitized photographic paper. Serial No. 419,286; July 25. Class 26.
American Drug & Chemical Co., Minneapolis, Minn. Medicinal wheat germ oil. Serial No. 419,364; July 25. Class 6.
American Fork & Hoe Company, The, Cleveland, Ohio. Rakes and parts thereof. Serial No. 411,263; July 25. Class 23.
American Foundry & Furnace Company, Bloomington, Ill. Heating furnaces. Serial No. 411,146; July 25. Class 34.
American Thermos Bottle Company, The, Norwich, Conn. Vacuum bottles. Serial No. 416,280; July 25. Class 2.
Amino Co., The. (See Moore, John A.)
Asher & Boretz, Inc., New York, N. Y. Artificial leather. Serial No. 420,358; July 25. Class 50.
Associated General Contractors of America, Inc., The, Washington, D. C. Electrotypes, and porcelain signs. Serial No. 420,128; July 25. Class 50.
Atlantic Research Foundation, Atlantic City, N. J. Therapeutic compounds. Serial No. 419,837; July 25. Class 6.
B. V. D. Corporation, The, Baltimore, Md. Collars for men's shirts. Serial No. 408,045; July 25. Class 39.
Bamberger-Reinthal Company, The, Cleveland, Ohio. Foundation garments, girdles, brassières, etc. Serial No. 419,005; July 25. Class 39.
Baum, Murray, Ashton, Idaho. Seed potatoes. Serial No. 417,953; July 25. Class 1.
Beatty, Clarence E., Chicago, Ill. Combination lipstick and pencil. Serial No. 420,210; July 25. Class 6.
Beckwith, Lois B., Manchester Center, Vt. Insecticides. Serial No. 419,289; July 25. Class 6.
Belding Heminway Company, New York, N. Y. Hosiery and underwear. Serial No. 419,469; July 25. Class 39.
Bennett, Murray, doing business as Bennett Brassiere Company, New York, N. Y. Brassières and girdles. Serial No. 418,624; July 25. Class 39.
Berako Company. (See Chipman, Ralph N.)
Bloomingdale Bros., Inc., New York, N. Y. Creams, lotions, powders, etc. Serial No. 417,480; July 25. Class 6.
Bourbeuse Shoe Company, Union, Mo. Shoes. Serial No. 419,654; July 25. Class 39.
Brillo Manufacturing Company, Inc., New York, N. Y. Abrasive pads for polishing and cleaning floors. Serial No. 418,807; July 25. Class 4.
Brillo Manufacturing Company, Inc., New York, N. Y. Soaps, cleaning, scouring, and polishing wads, pads, rolls, balls and cloths. Serial Nos. 418,813–16; July 25. Class 4.
Broemmel, George M., doing business as Broemmel Laboratories, San Francisco, Calif. Preparation for treatment of infections of the urinary tract. Serial No. 407,124; July 25. Class 6.
Brown, L. L., Paper Company, Adams, Mass. Papers. Serial Nos. 419,330–1; July 25. Class 37.
Bry, Edwin & Louis, Inc., New York, N. Y. Woolen and worsted piece goods. Serial No. 419,710; July 25. Class 42.
Bulova Watch Company, Inc., New York, N. Y. Watches. Serial No. 420,301; July 25. Class 27.
Byk-Guldenwerke Chemische Fabrik A.-G., Berlin, Germany. Medicines. Serial No. 414,023; July 25. Class 6.
Calcium Chemical Corp., Adams, Mass., and Easton, Pa. Carbonate pigment. Serial No. 416,680; July 25. Class 6.
California Cotton Mills Company, Oakland, Calif. Mops. Serial No. 420,162; July 25. Class 29.
Callaway, Cason J., Hamilton, Ga. Farm products. Serial No. 413,773; July 25. Class 46.
Callaway Mills, La Grange, Ga. Tire cord. Serial No. 417,833; July 25. Class 7.
Callaway Mills, La Grange, Ga. Textile bath rugs, mats, and seat covers. Serial Nos. 419,546–8; July 25. Class 42.
Campbell, Archibald U., doing business as Tropix Company, South Orange, N. J. Chairs. Serial No. 419,947; July 25. Class 32.
Canada Dry Ginger Ale, Incorporated, New York, N. Y. Beverages. Serial No. 420,213; July 25. Class 45.
Chaprales & Magris, Nogales, Ariz. Fresh vegetables. Serial No. 419,997; July 25. Class 46.
Chesterfield Hat Corporation, New York, N. Y. Ladies' and misses' hats. Serial No. 419,010; July 25. Class 39.
Chipman, Ralph N., doing business as Berako Company, Bound Brook, N. J. Insecticides and fungicides. Serial No. 419,368; July 25. Class 6.
Clover Games, Incorporated, New York, N. Y. Post office game. Serial No. 418,291; July 25. Class 22.
Cohen, Isaac, & Sons Clothes Co. Inc., New York, N. Y. Topcoats and overcoats. Serial No. 419,291; July 25. Class 39.
Decker, George N., doing business as Decker Grain Company, Rochester, N. Y. Breakfast cereal. Serial No. 419,109; July 25. Class 46.
Dingman-Lorenz Laboratory, Pittsburgh, Pa. Bleaching fluid. Serial No. 406,753; July 25. Class 6.
Du Pont de Nemours and Company, E. I., Wilmington, Del. Barrettes, combs, hair curlers, etc. Serial No. 416,233; July 25. Class 40.
Eastern Footwear Corporation, Dolgeville and New York, N. Y. Shoes and slippers. Serial No. 419,798; July 25. Class 39.
Elastic Knitted Wire Co., Inc., Providence, R. I. Tubes made of woven wire. Serial No. 418,240; July 25. Class 13.
Engelson, David M., New York, N. Y. Garment bags, paperboard closets, and chests. Serial No. 418,037; July 25. Class 2.
Engelson, David M., New York, N. Y. Retainer pads impregnated with an insect repellent. Serial No. 419,476; July 25. Class 6.
Everedy Company, The, Frederick, Md. Base metal cooking hollowware. Serial Nos. 419,961–3; July 25. Class 13.
Everedy Company, The, Frederick, Md. Crockery or ceramic cooking ware. Serial No. 419,964; July 25. Class 30.
Fae Manufacturing Company. (See Wentzel, Robert A.)
Fairbanks, Morse & Co., Chicago, Ill. Automatic coal burner. Serial No. 401,381; July 25. Class 34.
Fair-O Enterprises Company, New York, N. Y. Educational game. Serial No. 419,135; July 25. Class 22.
Felgenson Bros. Co., Inc., Detroit, Mich. Bottles of beverages. Serial No. 419,298; July 25. Class 45.
Finch, Joseph S., and Company, New York, N. Y., and Schenley, Pa. Gin, whiskey, rum, etc. Serial Nos. 420,406–7; July 25. Class 49.
Fisher Scientific Company, Pittsburgh, Pa. Electrical instrument for quantitative and qualitative chemical analysis. Serial No. 419,337; July 25. Class 26.
Fox River Paper Corporation, Appleton, Wis. Ledger paper. Serial No. 419,421; July 25. Class 37.
Freid, D., & Sons, Inc., New York, N. Y. Silk crepe, acetate, and rayon satins. Serial No. 417,962; July 25. Class 42.
Gale, Dr. H. M., Medicine Company, Bay City, Mich. Whooping cough medicine. Serial No. 414,824; July 25. Class 6.
Galter, William R., doing business as T. O. M. Company, Chicago, Ill. Payroll calculators. Serial No. 419,374; July 25. Class 26.
Garrett & Company, Inc., Brooklyn, N. Y. Wines. Serial No. 417,804; July 25. Class 47.
Gemex Company, Newark, N. J. Watch bracelets and straps, neck chains, etc. Serial No. 420,052; July 25. Class 28.
General Chemical Company, New York, N. Y. Detergent. Serial No. 419,511; July 25. Class 4.
General Refrigeration Corporation, South Beloit, Ill. Air conditioning apparatus. Serial No. 418,004; July 25. Class 34.
General Steel Warehouse Co., Inc., New York, N. Y. High carbon spring metal, metal strip, and wire. Serial No. 419,301; July 25. Class 14.
Glidden Company, The, Cleveland, Ohio. Paints, colors in oil, paint enamels, lacquers, etc. Serial No. 389,682; July 25. Class 16.
Goldfarb, Muriel, New York, N. Y. Bath mats, mats, and rugs. Serial No. 418,827; July 25. Class 42.
Gray, Dorothy, Salons, Bloomfield, N. J. Lipsticks, compact rouge, and cream rouge. Serial No. 420,321; July 25. Class 6.
Haggarty Stores, J. J., Inc., Los Angeles, Calif. Coats, dresses, suits, etc. Serial No. 419,260; July 25. Class 39.
Hale, Marion G., Mineral Wells, Tex. Salve and inhalant. Serial No. 419,224; July 25. Class 6.
Hall, Clyde L., doing business as Hall's Drug Store, Thayer, Mo. Medicinal compound. Serial No. 420,177; July 25. Class 6.
Hall, Horace W., Newton Highlands, Mass. Rackets. Serial No. 419,555; July 25. Class 22.

Harris, Jo D., Tyler, Tex. Maternity dresses. Serial No. 419,475; July 25. Class 39.
Hart Products Corporation, The, New York, N. Y. Wetting and moistening preparations, finishing preparations, etc. Serial No. 420,455; July 25. Class 6.
Hercules Tool Company, Tulsa, Okla. Oil well and oil field tools and equipment. Serial No. 416,901; July 25. Class 23.
Hill & McLaughlin, Inc., Minneapolis, Minn. Razor blades. Serial No. 419,515; July 25. Class 23.
Holder, Leonard H., Washington, D. C. Evaporative type air conditioning roof coolers. Serial No. 418,441; July 25. Class 34.
Horvath, Chas. V., Co., Inc., South Bend, Ind. Hair rinse. Serial No. 418,150; July 25. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Artificial resins. Serial No. 420,478; July 25. Class 1.
International Nickel Company, Inc., The, New York, N. Y. Carbon-bearing nickel anodes. Serial No. 419,763; July 25. Class 14.
Inventions Publishing Company, Washington, D. C. Periodical. Serial No. 399,139; July 25. Class 38.
Invisuport Manufacturing Corp., Brooklyn, N. Y. Combination waistbands and inner waist belts. Serial No. 418,877; July 25. Class 39.
Isaacs, I. C., & Company Inc., Baltimore, Md. Breeches, jodhpurs, pants, etc. Serial No. 420,006; July 25. Class 39.
Janik, Stephen, Niagara Falls, N. Y. Beverage, and sirup and extract for making the same. Serial No. 412,188; July 25. Class 45.
Johnson, Charity, Indianola, Miss. Medicine. Serial No. 420,061; July 25. Class 6.
Johnson, Louis, Co. (See Nelson, John.)
Johnson, Walter W., Company, San Francisco, Calif. Drill. Serial No. 418,346; July 25. Class 23.
Karpen, S., & Bros., Chicago, Ill. Mattresses, pillows, cushions, etc. Serial No. 420,487; July 25. Class 32.
Kay Manufacturing Corporation, New York and Brooklyn, N. Y. Mattresses and inner spring units for mattresses. Serial No. 420,488; July 25. Class 32.
Kelco Company, San Diego, Calif. Alginate product. Serial No. 420,586; July 25. Class 6.
Kendall Company, The, Walpole, Mass. Sutures. Serial No. 420,489; July 25. Class 44.
Kentucky Color and Chemical Company, Louisville, Ky Insecticides. Serial No. 419,427; July 25. Class 6.
Kerr Paper Company, Amarillo, Tex. Note and composition books and book covers, etc. Serial No. 419,303; July 25. Class 37.
Killian Manufacturing Company, The, Akron, Ohio. Prophylactic rubber articles. Serial No. 420,180; July 25. Class 44.
Kingsway Press, Inc., The, New York, N. Y. Magazine. Serial No. 412,298; July 25. Class 38.
Kittanning Leather Products. (See Rauhaus, Arthur.)
Kirsch Company, Sturgis, Mich. Venetian blinds. Serial No. 420,415; July 25. Class 32.
Knebel, Mark, New York, N. Y. Blouses and dresses. Serial No. 415,564; July 25. Class 39.
Knothe Brothers Company Inc., New York, N. Y. Belts, suspenders, and garters. Serial No. 419,262; July 25. Class 39.
Knott, Wm. T., Company, Inc., New York, N. Y. Albums, rubber bands, binders, etc. Serial No. 417,337; July 25. Class 37.
Koehler, F., Manufacturing Company, The, Newport, Ky. Medical appliance. Serial No. 418,927; July 25. Class 44.
Koehler, Ray J., Denver, Colo. Liquid preparation used as a cosmetic massage. Serial No. 416,903; July 25. Class 6.
Kress, S. H., and Company, New York, N. Y. Cleansing tissues. Serial No. 411,031; July 25. Class 37.
Laird, R. H., Manufacturing Company, Inc., The, New York, N. Y. Combination sun-tan and eau de cologne preparation. Serial No. 420,639; July 25. Class 6.
Lazarus, F. & R., & Company, The, Columbus, Ohio. Comforters. Serial No. 406,388; July 25. Class 42.
Lee, Royal B., San Diego, Calif. Calendars. Serial No. 419,340; July 25. Class 38.
Leighton Tobacco Co., Inc., New York, N. Y. Smoking tobacco, cigars, and cigarettes. Serial No. 420,376–7; July 25. Class 17.
Lewis, Howard W., Waltham, Mass. Game. Serial No. 420,491; July 25. Class 22.
Lord & Taylor, New York, N. Y. Scarfs, neckties, and mufflers. Serial No. 401,869; July 25. Class 39.
MacAloon, Frank G., doing business as New Chemical Products Co., Washington, D. C. Insecticide. Serial No. 418,688; July 25. Class 6.
Mackinlay, Charles, & Company, Leith, Scotland. Scotch whiskey. Serial No. 418,689; July 25. Class 49.
Marathon Battery Company, Wausau, Wis. Electric flashlights. Serial No. 418,721; July 25. Class 21.
Martin, Anne M., Los Angeles, Calif. Hair grower. Serial No. 417,289; July 25. Class 6.
Masury-Young Company, Charlestown, Mass. Cleaning preparation. Serial Nos. 419,081–2; July 25. Class 4.
Match King, Inc., Chicago, Ill. Cameras, photographic lenses, and sensitized photographic films. Serial No. 419,621; July 25. Class 26.
Maxim Instrument Company, Inc., Trenton, N. Y. Eye shields and sun shades. Serial No. 419,305; July 25. Class 26.
Mayflower Doughnut Corp., New York, N. Y. Doughnuts. Serial No. 419,484; July 25. Class 46.
McComas, Henry A., New Canaan, Conn. Marmalades. Serial No. 418,722; July 25. Class 46.
McGill Manufacturing Company, Valparaiso, Ind. Electric lamp sockets, candle sockets, switch porcelain brackets, etc. Serial No. 418,783; July 25. Class 21.
McLaren, L. M., Produce, Inc., Yuma, Ariz. Fresh vegetables and melons. Serial No. 419,030; July 25. Class 46.
Mead Johnson & Company, Evansville, Ind. Specially prepared food for infants and invalids. Serial No. 419,119; July 25. Class 46.
Menasha Products Company, Menasha, Wis. Waxed paper. Serial No. 420,332; July 25. Class 37.
Merz & Co., Chemical Works, Inc., Newark, N. Y. Chemical preparations. Serial No. 418,256; July 25. Class 6.
Mid-Continental Liquor Dist., Inc., St. Louis, Mo. Whiskey. Serial No. 419,306; July 25. Class 49.
Milridge Woolen Company, Inc., New York, N. Y. Piece goods. Serial No. 416,770; July 25. Class 42.
Monitor Mills, Inc., New York, N. Y. Tea. Serial No. 419,872; July 25. Class 46.
Moore, John A., doing business as The Amino Co., Syracuse, N. Y. Concentrate of vegetables containing vitamins and mineral salts. Serial No. 411,200; July 25. Class 46.
Moore, Samuel D., doing business as Sam Moore & Co., Cleveland, Ohio. Composition flooring and step tread coverings of the linoleum type. Serial No. 418,201; July 25. Class 20.
Morse-Starrett Products Company, Oakland, Calif. Squeegees and parts thereof. Serial No. 420,462; July 25. Class 50.
Mountain View Co. (See Rowley, Nellie G.)
Murray Corporation of America, The, Detroit, Mich. Stokers. Serial No. 419,588; July 25. Class 34.
Myers, F. E., & Bro. Company, The, Ashland, Ohio. Pumps. Serial No. 419,681; July 25. Class 23.
Naamlooze Vennootschap Maatschappij voor Wasverwerking, Amersfoort, Netherlands. Fly-catchers and fly-ribbons. Serial No. 420,463; July 25. Class 50.
National Biscuit Company, New York, N. Y. Bakery products. Serial No. 420,510; July 25. Class 46.
National Chemical & Manufacturing Company, Chicago, Ill. Paints in paste form. Serial No. 419,195; July 25. Class 16.
National Silk Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. Serial Nos. 419,485–6; July 25. Class 39.
National Silk Hosiery Mills, Inc., Indianapolis, Ind. Hosiery. Serial No. 419,626; July 25. Class 39.
Nelson, John, doing business as Louis Johnson Co., Chicago, Ill. Artificial fish lures. Serial Nos. 420,336–7; July 25. Class 22.
New Chemical Products Co. (See MacAloon, Frank G.)
New England Tank & Tower Company, Everett, Mass. Agitating drive equipment. Serial No. 417,504; July 25. Class 23.
New York Shopping Center Inc., The, New York, N. Y. Catalogues. Serial No. 417,584; July 25. Class 38.
Norris Incorporated, Atlanta, Ga. Candy. Serial No. 419,974; July 25. Class 46.
Ohio Leather Company, The, Girard, Ohio. Leather. Serial No. 420,184; July 25. Class 1.
Old Town Ribbon & Carbon Co., Inc., New York, N. Y. Carbon paper. Serial No. 419,308; July 25. Class 11.
Pulay, S. T., Textile Corporation, New York, N. Y. Rayon piece goods. Serial Nos. 419,389–90; July 25. Class 42.
Parfums Chevalier Garde, Inc., New York, N. Y. Perfume, toilet water, eau de cologne, etc. Serial No. 420,287; July 25. Class 6.
Parke, Davis & Company, Detroit, Mich. Compound for use as a local anesthetic. Serial Nos. 419,441–2; July 25. Class 6.
Parke, Davis & Company, Detroit, Mich. Ointment. Serial No. 419,443; July 25. Class 6.
Parker, Arthur L., Cleveland, Ohio. Metal tube fittings, metal pipe fittings, flexible metal hose fittings, etc. Serial No. 415,345; July 25. Class 13.
Parker Pen Company, The, Janesville, Wis. Fountain pens, mechanical pencils, and desk sets. Serial No. 413,314; July 25. Class 37.
Peerless Carbon Black Company, The, Pittsburgh, Pa. Carbon black. Serial No. 419,154; July 25. Class 11.
Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Slacks, shirts, playsuits, etc. Serial No. 419,272; July 25. Class 39.
Pernod S. A. (Société Anonyme), Couvet, Switzerland. Cordials. Serial No. 419,934; July 25. Class 49.
Perry Brothers, Inc., Lufkin, Tex. Stationery. Serial No. 419,444; July 25. Class 37.
Philadelphia Wholesale Drug Company, Philadelphia, Pa. Absorbent cotton. Serial No. 419,878; July 25. Class 44.
Philadelphia Wholesale Drug Company, Philadelphia, Pa. Fountain syrup concentrated strawberry and pineapple. Serial No. 419,876; July 25. Class 45.
Pitney-Bowes Postage Meter Company, Stamford, Conn. Coin-operated postage printing machines. Serial No. 419,631; July 25. Class 23.

Plomocite Products, Inc., Denver, Colo. Cleansing powder. Serial Nos. 419,683–4; July 25. Class 4.
Poole, Robert T., Candor and Troy, N. C. Fresh peaches. Serial No. 409,208; July 25. Class 46.
Popper-Morson Co. Inc., New York, N. Y. Whiskey. Serial No. 420,041; July 25. Class 49.
Preis, H. P., Engraving Machine Co., Newark, N. Y. Engraving machines and markers and parts thereof. Serial No. 419,633; July 25. Class 23.
Princess Pat, Ltd., Chicago, Ill. Wrinkle eradicator. Serial No. 418,943; July 25. Class 6.
Princeton Worsted Mills, Inc., Trenton, N. J. Piece goods. Serial No. 417,298; July 25. Class 42.
Quaker Oats Company, The, Chicago, Ill. Prepared breakfast cereal. Serial No. 420,024; July 25. Class 46.
Rauhaus, Arthur, doing business as Kittanning Leather Products, Kittanning, Pa. Leather billfolds and pocketbooks. Serial No. 413,912; July 25. Class 3.
Readex Microprint Corporation, New York, N. Y. Opaque projector. Serial No. 419,686; July 25. Class 26.
Rizzuto, Salvatore, New York, N. Y. Preparation for extinguishing fire. Serial No. 417,505; July 25. Class 6.
Roche-Organon, Inc., Nutley, N. J. Hormone preparation. Serial No. 420,290; July 25. Class 6.
Rollocurl Corporation, New York, N. Y. Hair combs. Serial No. 419,936; July 25. Class 40.
Ross Heater and Manufacturing Company, Inc., Buffalo, N. Y. Floating head covers for heat exchangers. Serial No. 416,341; July 25. Class 34.
Rowley, Nellie G., doing business as Mountain View Co., Salt Lake City, Utah. Preparations for the treatment of internal disorders. Serial No. 420,143; July 25. Class 6.
Royal, Thomas M., & Company, Philadelphia, Pa. Paper bags. Serial No. 417,417; July 25. Class 2.
Sabel, Albert W., New York, N. Y. Chewing gum. Serial No. 418,015; July 25. Class 46.
Sagner, A., & Sons, Inc., Baltimore, Md. Men's suits, pants, and overcoats. Serial No. 411,344; July 25. Class 39.
Sahlein, J. M., San Francisco, Calif. Metal and gut strings for musical instruments. Serial No. 419,315; July 25. Class 36.
Saks & Company, New York, N. Y. Dresses, coats, suits, etc. Serial No. 419,236; July 25. Class 39.
Sawada, Masaji, doing business as Tea Gold Co., New York, N. Y. Tea beverages and syrups and extracts for making the same. Serial No. 419,636; July 25. Class 45.
Schenley Import Corporation, New York, N. Y. Wines. Serial No. 420,026; July 25. Class 47.
Scott & Bowne, Bloomfield, N. J. Vaginal powder insufflators. Serial No. 420,146; July 25. Class 44.
Scott & Bowne Vitamin Corporation, Bloomfield, N. J. Emulsification of vitamin D concentrate. Serial No. 420,145; July 25. Class 6.
Sears, Roebuck and Co., Chicago, Ill. Automobile defrosting and ventilating fans. Serial No. 417,785; July 25. Class 34.
Service Instruments Inc., New York, N. Y. Radio testing units and instruments, and radio measuring instruments. Serial No. 419,642; July 25. Class 26.
Shanzer, H. M., Co., San Francisco, Calif. Grain and seed driers and treating machinery, and mill machinery. Serial No. 418,118; July 25. Class 23.
Shawnee Pottery Co., Zanesville, Ohio. Pottery, table and kitchen ware. Serial No. 411,910; July 25. Class 30.
Shellabarger Mill & Elevator Company, The, doing business as The Shellabarger Mills, Salina, Kans. Wheat flour. Serial No. 418,952; July 25. Class 46.
Sisk, A. W., & Son, Aberdeen and Preston, Md. Canned vegetables. Serial No. 418,953; July 25. Class 46.
Smith Brothers Drug Company, Baltimore, Md. Preparation for the relief of indigestion, ulcers of the stomach, etc. Serial No. 413,083; July 25. Class 6.
Societe Anonyme Alliance Vinicole de Bourgogne, Nuits Saint-Georges, France. Still wines. Serial No. 418,854; July 25. Class 47.
Southern Coal Company, Incorporated, Memphis, Tenn. Coal. Serial No. 418,071; July 25. Class 1.
Southport Petroleum Company, Kilgore, Tex. Gasoline. Serial No. 419,690; July 25. Class 15.
Spencer, Richard L., Meadville, Pa. Eye drops. Serial No. 418,545; July 25. Class 6.
Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High frequency radio amplifiers, oscillators, detectors, etc. Serial No. 416,529; July 25. Class 21.
Sperry Gyroscope Company, Inc., Brooklyn, N. Y. High frequency electro-magnetic resonators and resonant circuits. Serial No. 416,530; July 25. Class 21.
Spiegel, Inc., Chicago, Ill. Radio receiving sets and tubes, and storage and dry cell batteries. Serial No. 419,638; July 25. Class 21.
Standard Beauty Supply Co., New York, N. Y. Shampoos, hair tonics, and hair and scalp preparations. Serial No. 417,145; July 25. Class 6.
Starkist Company, The, Gloster, Miss. Toothpaste and dentifrice. Serial No. 419,457; July 25. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Alkaline effervescent preparation. Serial No. 420,262; July 25. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Product indicated in the treatment of diarrhea and dysentery. Serial No. 420,263; July 25. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Preparation indicated in the treatment of rheumatic fever. Serial No. 420,264; July 25. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Product indicated as an alterative and stomachic. Serial No. 420,265; July 25. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Preparation indicated in the treatment of dysentery and diarrhea. Serial No. 420,266; July 25. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Alkaline effervescent salt preparation. Serial No. 420,267; July 25. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. Product indicated in the treatment of genito urinary conditions. Serial No. 420,268; July 25. Class 6.
Stearns, Frederick, & Company, Detroit, Mich. General tonic. Serial No. 420,604; July 25. Class 6.
Steel Materials Corporation, Detroit, Mich. Base metal cooking hollowware. Serial No. 419,277; July 25. Class 13.
Sterns, Limited, London, England. Heating and lubricating oils. Serial No. 419,984; July 25. Class 15.
T. O. M. Company. (See Galter, William R.)
Tabin-Picker & Company, Chicago, Ill. Cotton and spun rayon piece goods. Serial No. 420,119; July 25. Class 42.
Tea Gold Co. (See Sawada, Masaji.)
Teague-McKevett Association, Santa Paula, Calif. Fresh citrus fruit. Serial No. 417,718; July 25. Class 46.
Tidy Products Corporation, New York, N. Y. Snow suits. Serial No. 419,640; July 25. Class 39.
Time, Incorporated, New York, N. Y. Section of a magazine. Serial Nos. 415,423–4; July 25. Class 38.
Timken Roller Bearing Company, The, Canton, Ohio. Steel. Serial No. 419,692; July 25. Class 14.
Tobin, Sporn & Glaser, Inc., New York, N. Y. Needles, rug hooks, braid, etc. Serial No. 419,647; July 25. Class 40.
Tobin, Sporn & Glaser, Inc., New York, N. Y. Cotton cloth piece goods, lace, linen and cotton towels, etc. Serial No. 419,646; July 25. Class 42.
Tootal Broadhurst Lee Company Limited, Manchester, England. Dresses, gowns, frocks, etc. Serial No. 418,610; July 25. Class 39.
Tropix Company. (See Campbell, Archibald U.)
Tru Test Marketing & Merchandising Corp., Chicago, Ill. Spark plugs, electric vacuum cleaners, batteries, etc. Serial No. 414,131; July 25. Class 21.
United Cigar-Whelan Stores Corporation, New York, N. Y. Paper towels. Serial No. 418,463; July 25. Class 37.
United States Rubber Company, New York, N. Y. Electrical wire. Serial No. 419,403; July 25. Class 21.
Vegetable Oil Products Company, Inc., Los Angeles, Calif. Shortening. Serial No. 402,320; July 25. Class 46.
Waldes Koh-I-Noor, Inc., Long Island City, N. Y. Paper clips. Serial No. 420,505; July 25. Class 37.
Warshauer, Benjamin, Stockton, Calif. Shoes. Serial No. 419,130; July 25. Class 39.
Wayne Candies, Inc., Fort Wayne, Ind. Candy. Serial No. 417,829; July 25. Class 46.
Wayne Pump Company, The, Fort Wayne, Ind. Combination apparatus for dispensing, metering, etc. liquids or petroleum products. Serial No. 393,351; July 25. Class 26.
Webb Laboratories, Inc., Schenectady, N. Y. Medicinal preparation. Serial No. 417,723; July 25. Class 6.
Webb Laboratories, Inc., Schenectady, N. Y. Vitamin concentrate capsules. Serial Nos. 417,725–6; July 25. Class 6.
Wentzel, Robert A., doing business as Fac Manufacturing Company, Palmyra, Pa. Union suits, vests, shirts, etc. Serial No. 412,572; July 25. Class 39.
Werman, A., & Sons, Inc., New York, N. Y. Children's shoes. Serial No. 419,248; July 25. Class 39.
Western Canners, Inc., Newport Beach, Calif. Canned ripe olives, pimentos, and fish. Serial No. 416,782; July 25. Class 46.
White Creamery Company, Inc., Charlestown, Mass. Cream cheese, soured cream, cottage cheese, etc. Serial No. 419,783; July 25. Class 46.
Wyeth Chemical Company, Jersey City, N. J. Medicinal preparation. Serial No. 418,667; July 25. Class 6.
Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Medicinal preparation. Serial No. 419,491; July 25. Class 6.
Wyman, Herbert C., Pleasantville, N. Y. Maps. Serial No. 416,755; July 25. Class 38.
Youngberg Bros., Meriden, Conn. Food slicers. Serial No. 410,807; July 25. Class 23.

LIST OF REGISTRANTS OF TRADE-MARKS

Abbott Laboratories, Chicago, to Abbott Laboratories, North Chicago, Ill. Drugs, chemicals, and pharmaceutical preparations. 127,803; renewed Dec. 9, 1939.

Acme Rubber Manufacturing Company, Trenton, N. J. Fruit-jar rubbers. 128,211; renewed Dec. 23, 1939.

Acme Steel Company, Chicago, Ill. Steel strip. 369,480; July 25; Serial No. 416,236; published May 9, 1939. Class 14.

Agra Company, The, assignor to Nyal Company, Detroit, Mich. Talcum powder. 125,924; renewed July 15, 1939.

Allen, Paul E., Niles Center, Ill. Toys. 369,412; July 25; Serial No. 410,982; published May 16, 1939. Class 22.

American-LaFrance-Foamite Corporation, Elmira, N. Y. Hose nozzles. 369,501; July 25; Serial No. 416,939; published May 16, 1939. Class 13.

American Tissue Mills, Holyoke, Mass. Paper table cloths and napkins. 369,411; July 25; Serial No. 410,496; published Jan. 24, 1939. Class 37.

Anaconda Wire & Cable Company, New York, N. Y. Insulated electrical wire and cable. 369,399; July 25; Serial No. 404,510; published May 16, 1939. Class 21.

Anchor Cap & Closure Corporation, Long Island City, N. Y. Caps or closures. 369,485; July 25; Serial No. 416,395; published May 16, 1939. Class 50.

Apex Tire Inc., Providence, R. I. Pneumatic tires and tubes. 369,404; July 25; Serial No. 408,592; published May 16, 1939. Class 35.

Associated Growers of Brownsville, Brownsville, Tex. Fresh vegetables. 369,504; July 25; Serial No. 416,986; published May 16, 1939. Class 46.

Atlas Supply Company, Newark, N. J. Rubber tires. 369,531; July 25; Serial No. 418,030; published May 16, 1939. Class 35.

Aurora School of Photo Engraving, The, Aurora, Mo. Photo-engraving equipment and supplies. 369,396; July 25; Serial No. 403,536; published May 16, 1939. Class 26.

Austenal Laboratories, Inc., New York, N. Y. Thermoplastic synthetic resin material. 369,415; July 25; Serial No. 411,147; published Nov. 22, 1938. Class 1.

Autokraft Box Corporation, Hanover, Pa. Toilet seats. 369,505; July 25; Serial No. 417,048; published May 16, 1939. Class 13.

Barre Granite Association, Inc., The, Barre, Vt. Granite monuments and memorials. 369,552; July 25. Class 50.

Barrell, William L., Company, Inc. (See Eastern Finishing Works, Inc., assignor.)

Beam, James B., Distilling Co., Incorporated, Clermont, Ky. Whiskey. 369,543; July 25. Class 49.

Bell & Company, Inc., Orangeburg, N. Y. Medicinal remedy. 126,920; renewed Oct. 14, 1939.

Bemis Bro. Bag Company, St. Louis, Mo. Vehicle slip covers. 369,489; July 25; Serial No. 416,537; published May 16, 1939. Class 19.

Bennett Chemical Company, Cambridge, Md. Automobile polish and glaze. 369,523; July 25; Serial No. 417,395; published May 16, 1939. Class 16.

Berkowitz Envelope Company, Kansas City, Mo. Merchandise envelopes. 369,534; July 25. Class 2.

Beru-Werk. (See Ruprecht, Albert.)

Big Lion, Incorporated, also doing business as Home Life Products Co., Hartford, Conn. Ice cream. 369,532; July 25. Class 46.

Bigelow-Sanford Carpet Co. Inc., Thompsonville, Conn. Woven textile rugs. 369,389; July 25; Serial No. 400,185; published May 16, 1939. Class 42.

Black Bear Company, Inc., Long Island City, N. Y. Printing inks, stencil, and marking inks, etc. 369,387; July 25; Serial No. 398,753; published Jan. 17, 1939. Class 11.

Blumenthal, Sidney, & Co. Inc., New York, N. Y. Cotton pile fabrics. 369,382; July 25; Serial No. 375,748; published May 9, 1939. Class 42.

Borden Company, The, New York, N. Y. Cheese flavoring for baked goods. 369,433; July 25; Serial No. 413,892; published Mar. 14, 1939. Class 46.

Borden Company, The, New York, N. Y. Pasteurized cheese food mixture. 369,466; July 25; Serial No. 415,631; published May 16, 1939. Class 46.

Boye Needle Company, The, Chicago, Ill. Machine needles, knives of steel and stainless steel, scissors, etc. 369,397; July 25; Serial No. 403,750; published May 16, 1939. Class 23.

Bradley Manufacturing Co., Chicago, Ill. Lamp shades. 369,542; July 25. Class 34.

Bresduck, Inc., New York, N. Y. Barbers' razors and shears. 369,417; July 25; Serial No. 411,616; published May 16, 1939. Class 23.

Brown, Frank H., assignor to Varcraft Works, Incorporated, Pottstown, Pa. Enamel paints, ready-mixed paints, colors in oil, etc. 128,020; renewed Dec. 23, 1939.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Electric score projectors. 369,516; July 25; Serial No. 417,256; published May 16, 1939. Class 21.

Buckeye Traction Ditcher Company, The, Findlay, Ohio. Ditch digging machines, clay and sand digging machines, etc. 369,401; July 25; Serial No. 404,596; published May 9, 1939. Class 23.

Buckeye Traction Ditcher Company, The, Findlay, Ohio. Shoveling machines. 369,402; July 25; Serial No. 404,597; published May 9, 1939. Class 23.

Burt, Harry B., Youngstown, Ohio, assignor, by mesne assignments, to Good Humor Corporation of America, Brooklyn, N. Y. Candy. 126,923; renewed Oct. 14, 1939.

Butts Manufacturing Co., Los Angeles, Calif. Curtain and fabric stretchers, quilting frames, etc. 369,547; July 25. Class 50.

Canine Vita-Candy Company, Inc., Waterbury, Conn. Vitamine candy for domestic animals. 369,385; July 25; Serial No. 387,061; published May 16, 1939. Class 46.

Carter, Robert E., Chicago, Ill. Insurance policy vending machines. 369,443; July 25; Serial No. 414,611; published May 9, 1939. Class 26.

Century Hair Dryer Co., New York, N. Y. Magnetic tool for use by hair dressers in the removal of hair pins from the hair. 369,438; July 25; Serial No. 414,394; published May 16, 1939. Class 23.

Cheney Weeder Company, Cheney, Wash. Rotary rod weeders. 369,452; July 25; Serial No. 415,324; published May 9, 1939. Class 23.

Chicago Musical Instrument Company, Chicago, Ill. Reeds for clarinets and other musical instruments. 369,517; July 25; Serial No. 417,263; published May 16, 1939. Class 36.

Coleman, Walter M., Woodlawn, Md. Card games. 369,446; July 25; Serial No. 414,913; published May 16, 1939. Class 22.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving cream. 369,520; July 25; Serial No. 417,328; published May 16, 1939. Class 4.

Columbia Mills, Inc., The, New York, N. Y. Window shade cloth. 369,481; July 25; Serial No. 416,248; published May 16, 1939. Class 42.

Connell, J. C., doing business as Rio Grande Citrus Distributors, Alamo, Tex. Fresh citrus fruits. 369,495; July 25; Serial No. 416,843; published May 16, 1939. Class 46.

Connolly Brothers (Curriers) Limited, London, England. Leather, skins unwrought and wrought. 369,460; July 25; Serial No. 415,444; published May 16, 1939. Class 1.

Crown Cork and Seal Company of Baltimore City, The, assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Bottle-capping machines, bottle-filling machines, etc. 127,916; renewed Dec. 16, 1939.

Crompton Company, assignor to Crompton Company, Crompton, R. I. Velveteens. 127,917; renewed Dec. 16, 1939.

Davis, H. B., Co., The, doing business as Maryland Paint Company, Baltimore, Md. Paints, paint enamels, stains, etc. 369,514; July 25; Serial No. 417,204; published May 16, 1939. Class 16.

Dayton Rubber Manufacturing Company, The, Dayton, Ohio. Printing rollers and loom supplies. 369,464; July 25; Serial No. 415,472; published May 16, 1939. Class 23.

Delta Manufacturing Company, Milwaukee, Wis. Circular saws and saw tables. 369,416; July 25; Serial No. 411,448; published May 9, 1939. Class 23.

"Delta" Papier- und Filter-Kommanditgesellschaft, Büngeler & Co., Duren, Germany. Filter papers. 369,394; July 25; Serial No. 402,852; published May 16, 1939. Class 31.

Detroit Lubricator Company, Detroit, Mich. Valve needles and valve seats for expansion valves. 369,381; July 25; Serial No. 374,234; published May 16, 1939. Class 13.

Diplomat Products, Inc., New York, N. Y. Chicken chow mein. 369,465; July 25; Serial No. 415,584; published May 9, 1939. Class 46.

Dritz-Traum Company, Inc., New York, N. Y. Elastic thread. 369,467; July 25; Serial No. 415,707; published May 9, 1939. Class 43.

Dumari Textile Co., Inc., New York, N. Y. Piece goods. 369,383; July 25; Serial No. 380,626; published Sept. 14, 1937. Class 42.

Dumari Textile Co., Inc., New York, N. Y. Piece goods. 369,384; July 25; Serial No. 380,865; published Sept. 14, 1937. Class 42.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Polyvinyl acetal resins. 369,462; July 25; Serial No. 415,473; published Apr. 18, 1939. Class 1.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Thread and yarn. 369,479; July 25; Serial No. 416,228; published Apr. 25, 1939. Class 43.

Eagle Electric Mfg. Co. Inc., Brooklyn, N. Y. Electric lamp. 369,545; July 25. Class 21.

Eastern Finishing Works, Inc., Kenyon, R. I., assignor to William L. Barrell Company, Inc., New York, N. Y. Waterproof textile fabrics. 127,225; renewed Oct. 28, 1939.

Eaton Manufacturing Company, Cleveland, Ohio. Combination steel cooking utensil. 369,546; July 25. Class 13.

Ehrman, Samuel, Co. Inc., New York, N. Y. Laces, embroideries in the piece. 369,459; July 25; Serial No. 415,435; published May 16, 1939. Class 42.

Emlong, Ralph R., doing business as Emlong's Nursery, Stevensville, Mich. Fruit trees. 369,474; July 25; Serial No. 416,060; published May 16, 1939. Class 1.

Engineering and Research Corporation, Riverdale, Md. Composite aircraft propellers, propeller blades, and hubs. 369,521; July 25; Serial No. 417,333; published May 16, 1939. Class 19.

Ernst, H., & Cie, Aarwangen, Switzerland. Woolen yarns. 369,482; July 25; Serial No. 416,252; published Apr. 25, 1939. Class 43.

Evans Products Company, Detroit, Mich. Motor trucks. 369,388; July 25; Serial No. 400,001; published May 16, 1939. Class 19.

Fate-Root-Heath Company, The, Plymouth, Ohio. Locomotives. 369,524; July 25; Serial No. 417,403; published May 16, 1939. Class 23.

Fawcett & Fawcett, assignor to Fawcett & Fawcett, Inc., Brooklyn, N. Y. Dental, medical, and surgical appliances. 126,275; renewed Aug. 19, 1939.

Federal-Mogul Corporation, Detroit, Mich. Machinery shaft bearings and journal bearings therefor. 369,447; July 25; Serial No. 414,990; published May 16, 1939. Class 23.

Federal Research Products, Inc., New York, N. Y. Flameproofing compound. 369,535; July 25. Class 6.

Finch, Joseph S., and Company, New York, N. Y., and Schenley, Pa. Whiskey, gin, rum, etc. 369,428; July 25; Serial No. 413,579; published May 16, 1939. Class 49.

Finki, A., & Sons Company, Chicago, Ill. Steel dies. 369,486; July 25; Serial No. 416,409; published May 16, 1939. Class 23.

Firestone Tire & Rubber Company, The, Akron, Ohio. Sponge rubber cushions, mattresses, etc. 369,386; July 25; Serial No. 398,004; published Feb. 14, 1939. Class 32.

Fisk Rubber Corporation, The, Chicopee Falls, Mass. Golf balls. 369,529; July 25; Serial No. 417,908; published May 16, 1939. Class 22.

Fleisher Yarns, Inc., New York, N. Y. Yarns for art needlework. 369,509; July 25; Serial No. 417,125; published May 16, 1939. Class 43.

Freedman-Burnham Engineering Corporation, Cincinnati, Ohio. Aeroplane propellers. 369,493; July 25; Serial No. 416,798; published May 16, 1939. Class 19.

Gemmill, C. H., doing business as C. H. Gemmill Company, Chicago, Ill. Drills, jigs, boring jigs, etc. 369,478; July 25; Serial No. 416,221; published May 9, 1939. Class 23.

General Electric Company, Schenectady, N. Y. Electric transformers and stationary induction apparatus. 369,461; July 25; Serial No. 415,452; published May 9, 1939. Class 21.

General Electric Company, Schenectady, N. Y. Electric transformers. 369,463; July 25; Serial No. 415,450; published May 9, 1939. Class 21.

General Mills, Inc., Minneapolis, Minn. Feeds, flour, and cottonseed meal, and soybean meal. 369,441; July 25; Serial No. 414,561; published May 16, 1939. Class 46.

General Refrigeration Corporation, South Beloit, Ill. Refrigerating apparatus and parts thereof. 369,530; July 25; Serial No. 418,003; published May 16, 1939. Class 31.

General Time Instruments Corporation, La Salle, Ill. Clocks and watches. 369,392; July 25; Serial No. 402,370; published May 16, 1939. Class 27.

Geneva Watch Co. (See Schwob, L. A.)

Georges-George De Met & Bros., Inc., Chicago, Ill. Candy. 369,470; July 25; Serial No. 415,984; published May 16, 1939. Class 46.

Gibson Electric Refrigerator Corporation, Greenville, Mich. Refrigerators. 369,528; July 25; Serial No. 417,684; published May 16, 1939. Class 31.

Glidden Company, The, Cleveland, Ohio. Paints, colors in oil, paint enamels, etc. 369,548; July 25. Class 16.

Globe Oil & Refining Company, The, Wichita, Kans. Tires and tubes. 369,445; July 25; Serial No. 414,877; published May 16, 1939. Class 35.

Good Humor Corporation of America. (See Burt, Harry B., assignor.)

Greer, William, & Co. Limited, Glasgow, Scotland. Scotch whisky. 369,476; July 25; Serial No. 416,186; published May 16, 1939. Class 49.

Griffith Laboratories, Inc., The, Chicago, Ill. Salt composition for use in curing meats and like animal products. 369,540–1; July 25. Class 6.

Hecker Products Corporation, New York, N. Y. Shoe soap. 369,527; July 25; Serial No. 417,616; published May 16, 1939. Class 4.

Herrmann, John A., doing business as Hot Diggitty Products, Chicago, Ill. Barbecue table extract. 369,471; July 25; Serial No. 415,985; published May 16, 1939. Class 46.

High Rock Ginger Ale Company, Baltimore, Md. Maltless beverages. 369,496–7; July 25; Serial Nos. 416,851–2; published May 16, 1939. Class 45.

Home Life Products Co. (See Big Lion, Incorporated.)

Hot Diggitty Products. (See Herrmann, John A.)

Independent Food Products Co. Inc., Newark, N. J. Eggs. 369,494; July 25; Serial No. 416,800; published May 16, 1939. Class 46.

Industrial Rayon Corporation, Cleveland, Ohio. Rayon yarn. 369,408; July 25; Serial No. 409,573; published Apr. 25, 1939. Class 43.

Inson, Ralph E., New York, N. Y. Polish and cleaner for furniture finished surfaces. 369,448; July 25; Serial No. 415,041; published May 16, 1939. Class 16.

International Pulverizing Company, Moorestown, N. J. Pulverized clays. 369,442; July 25; Serial No. 414,566; published May 16, 1939. Class 1.

Ivins', J. S., Son, Inc., Philadelphia, Pa. Cookies. 369,419; July 25; Serial No. 411,869; published May 16, 1939. Class 46.

Jacobsen Manufacturing Company, Racine, Wis. Power lawn mowers. 369,457; July 25; Serial No. 415,394; published May 16, 1939. Class 23.

Jeffrey Manufacturing Company, The, Columbus, Ohio. Single roll crushers, and teeth therefor. 369,544; July 25. Class 23.

Jones, Chester A., Ottumwa, Iowa. Punch boards. 369,436; July 25; Serial No. 414,225; published May 16, 1939. Class 22.

Keasbey & Mattison Company, Ambler, Pa. Asbestos thread, yarn, and flat thread tapes. 369,423; July 25; Serial No. 412,909; published Apr. 25, 1939. Class 43.

Kemco Products Company, Kokomo, Ind. Canned soups. 369,400; July 25; Serial No. 404,532; published Nov. 15, 1939. Class 46.

Kempenich, Henry, Portland, Oreg., to Henry Kempenich, Palo Alto, Calif. Measuring and scientific appliances. 126,941; renewed Oct. 14, 1939.

Lampl Sportswear Manufacturing Company, The, Cleveland, Ohio. Piece goods. 369,410; July 25; Serial No. 410,124; published May 16, 1939. Class 42.

Lankenau Co., New York, N. Y. Piece goods. 369,553; July 25. Class 42.

Latham Watch Co., Inc., New York, N. Y. Watches and watch movements. 369,555; July 25. Class 27.

Lee Paper Company, Vicksburg, Mich. Paper for use in duplicating machines. 369,409; July 25; Serial No. 409,882; published May 16, 1939. Class 37.

Lister, R. A., & Company Limited, Dursley, England. Electric lighting plant. 369,518; July 25; Serial No. 417,286; published May 16, 1939. Class 21.

Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Fabrics in the piece. 369,440; July 25; Serial No. 414,500; published May 16, 1939. Class 42.

Lowe, Joe, Corporation, New York, N. Y. Frozen confections, nut toppings, and chocolate coatings. 369,422; July 25; Serial No. 412,648; published Feb. 14, 1939. Class 46.

Maine Potato Growers, Inc., Presque Isle, Maine. Potatoes. 369,424; July 25; Serial No. 413,196; published Feb. 14, 1939. Class 46.

Manning, Bowman & Co., Meriden, Conn. Electric waffle irons. 369,458; July 25; Serial No. 415,406; published May 9, 1939. Class 21.

Marcy, Carrie E., doing business as Marcy Ranch, Santa Ana, Calif. Fresh citrus fruit. 369,393; July 25; Serial No. 402,533; published May 16, 1939. Class 46.

Martin Manufacturing and Research Corp., New York, N. Y. Telegraph keys. 369,455; July 25; Serial No. 415,254; published May 16, 1939. Class 21.

Maryland Paint Company. (See Davis, H. B., Co., The.)

Menasha Products Company, Menasha, Wis. Paper cartons. 369,539; July 25. Class 2.

Modern Engineering Company, Inc., St. Louis, Mo. Cutting torches. 369,515; July 25; Serial No. 417,227; published May 16, 1939. Class 34.

Monarch Leather Company, Chicago, Ill. Leather. 369,533; July 25. Class 1.

Monarch Metal Weatherstrip Corporation, St. Louis, Mo. Metal. 369,522; July 25; Serial No. 417,382; published May 16, 1939. Class 14.

Monarch Mills, Incorporated, Cleveland, Ohio. Yarn. 369,406; July 25; Serial No. 408,929; published Sept. 27, 1938. Class 43.

Mount Hope Finishing Company, Dighton, Mass. Finished textile fabrics. 369,498–9; July 25; Serial Nos. 416,864–5; published May 16, 1939. Class 42.

National Grape Corporation, Brocton, N. Y. Grape juice and grape juice concentrates. 369,507–8; July 25; Serial Nos. 417,097–8; published May 16, 1939. Class 45.

National Silk Company, Inc. The, South Coventry, Conn. Threads, yarns, and novelty yarns. 369,483; July 25; Serial No. 416,263; published May 9, 1939. Class 43.

Nestra Packing Company, Berkley, Mich. Dog food. 369,525; July 25; Serial No. 417,412; published May 16, 1939. Class 46.

New Zealand Co-Operative Dairy Company Limited, The, Hamilton, Auckland, New Zealand. Casein used in the industry arts. 369,425; July 25; Serial No. 413,233; published May 16, 1939. Class 1.

Nyal Company. (See Agra Company, The.)

Pacific Mills, Lawrence and Boston, Mass., to Pacific Mills, Boston, Mass. Cotton piece goods. 127,979; renewed Dec. 16, 1939.

Parfumerie Roger et Gallet, Société Anonyme, Paris, France. Toilet soaps, soap pastes, soap powders, etc. 369,490; July 25; Serial No. 416,581; published May 9, 1939. Class 4.

Party Mart, Inc., The, New York, N. Y. Package of small articles, such as candy, paper hats, toy balloons, etc. 369,420; July 25; Serial No. 412,388; published May 16, 1939. Class 50.

Patterson-Sargent Company, The, Cleveland, Ohio. Paints, paint enamels, stains, etc. 369,510–11; July 25; Serial Nos. 417,137–8; published May 16, 1939. Class 16.

Pepsi-Cola Company, Long Island City, N. Y. Beverage coolers. 369,426; July 25; Serial No. 413,237; published May 16, 1939. Class 31.

Perrier, Joseph, Fils & Cie, Chalons-sur-Marne, France. Champagne wine. 369,554; July 25. Class 47.

Plymouth Wholesale Dry Goods Corporation, New York, N. Y. Razor blades. 369,537; July 25. Class 23.

Professional Laboratories, Inc., Bloomfield, N. J. Preparations indicated in the treatment of constipation. 369,536; July 25. Class 6.

Rauschenberg, G. H., Inc., Dalton, Ga. Bedspreads, bath mats, and other chenille and tufted articles. 369,407; July 25; Serial No. 408,936; published May 16, 1939. Class 42.

Raycraft Tire and Rubber Company, The. (See Spevack, Isadore.)

Raytheon Manufacturing Company, Newton, Mass. Devices for controlling or modifying electrical currents. 369,432; July 25; Serial No. 413,736; published May 9, 1939. Class 21.

Regent Braid and Trimming Co. Inc., New York, N. Y. Yarn. 369,487; July 25; Serial No. 416,438; published May 9, 1939. Class 43.

Rex, James S., Media, Pa. Wheat, rice, and corn in a puffed or flaked form. 369,484; July 25; Serial No. 416,340; published May 16, 1939. Class 46.

Rice, William W., Chicago, Ill. Automatic photographing apparatus. 369,405; July 25; Serial No. 408,658; published Oct. 4, 1938. Class 26.

Rio Grande Citrus Distributors. (See Connell, J. C.)

Rockbestos Products Corporation, New Haven, Conn. Insulated electric wires and cables. 369,472; July 25; Serial No. 415,999; published May 16, 1939. Class 21.

Ruprecht, Albert, doing business as Beru-Werk, Ludwigsburg, Germany. Spark plugs, low tension fuses, resistances, etc. 369,439; July 25; Serial No. 414,431; published May 16, 1939. Class 21.

Salz Brothers, Inc., New York, N. Y. Flashlights. 369,434; July 25; Serial No. 413,913; published May 9, 1939. Class 21.

Schaffer Engineering & Equipment Co., The, Tiffin, Ohio, assignor to Schaffer Poldometer Company, Pittsburgh, Pa. Material-handling machinery. 127,495; renewed Nov. 11, 1939.

Schenley Import Corporation, New York, N. Y. Wines. 369,390; July 25; Serial No. 400,571; published May 16, 1939. Class 47.

Scholl Mfg. Co., Inc., The, Chicago, Ill. Adhesive medicated shields, pads or plasters. 369,502; July 25; Serial No. 416,968; published May 9, 1939. Class 6.

Schrenk & Company, Hoboken, N. J. Mirrors. 369,418; July 25; Serial No. 411,755; published May 9, 1939. Class 32.

Schwab, A. G., & Sons, Inc., Cincinnati, Ohio. Watches. 369,391; July 25; Serial No. 401,916; published May 16, 1939. Class 27.

Schwartz, Charles, & Co., Chicago, Ill. Used bags and sacks adaptable for use in making towels, dust cloths, etc. 369,435; July 25; Serial No. 414,083; published May 16, 1939. Class 1.

Schwob, L. A., doing business as Geneva Watch Co., New York, N. Y. Watches and watch movements. 369,549; July 25. Class 27.

Sea Island Thread Mfg. Corp., New York, N. Y. Rubber covered thread. 369,454; July 25; Serial No. 415,265; published May 9, 1939. Class 43.

Sealtest, Inc., Baltimore, Md., and New York, N. Y. Milk, buttermilk, and other cultured milks, etc. 369,430; July 25; Serial No. 413,687; published May 16, 1939. Class 46.

Sealy, Incorporated, Pittsburgh, Pa. Mattresses and box springs. 369,513; July 25; Serial No. 417,185; published May 16, 1939. Class 32.

Semon Bache & Company, New York, N. Y. Sheets of colored glass to be cut up for tiles, etc. 369,395; July 25; Serial No. 403,095; published May 16, 1939. Class 33.

Service Instruments Inc., New York, N. Y. Radio testing units, testing instruments, and measuring instruments. 369,469; July 25; Serial No. 415,799; published May 9, 1939. Class 26.

Showerway Company, The, Minneapolis, Minn. Water heating, lavatory, and lunch warming units. 369,398; July 25; Serial No. 404,452; published May 16, 1939. Class 34.

Sparks-Withington Company, The, Jackson, Mich. Electric fence controller apparatus. 369,451; July 25; Serial No. 415,232; published May 9, 1939. Class 21.

Spevack, Isadore, doing business as The Raycraft Tire and Rubber Company, Brooklyn, N. Y. Tires and rubber inner tubes. 369,468; July 25; Serial No. 415,748; published May 16, 1939. Class 35.

Staley, A. E., Manufacturing Company, Decatur, Ill. Laundry starch. 369,551; July 25. Class 6.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Ferrous metal castings. 369,526; July 25; Serial No. 417,509; published May 16, 1939. Class 14.

Stewart-Warner Corporation, Chicago, Ill. Electric ranges and parts therefor. 369,429; July 25; Serial No. 413,652; published May 9, 1939. Class 21.

Sturtevant Mill Company, Boston, Mass. Centrifugal type dust collectors for air conditioning. 369,492; July 25; Serial No. 416,710; published May 16, 1939. Class 34.

Swift and Company. (See Union Meat Company, assignor.)

Taylor, C. S., & Co., Davenport, Fla. Candy, Honey, kumquat syrup, etc. 369,427; July 25; Serial No. 413,250; published May 16, 1939. Class 46.

Topit Company, The, Los Angeles, Calif. Syrup. 369,453; July 25; Serial No. 415,312; published May 16, 1939. Class 46.

Torrington Manufacturing Company, The, Torrington, Conn. Centrifugal blower wheels. 369,512; July 25; Serial No. 417,147; published May 16, 1939. Class 34.

Trac Trac Novelty Co., New York, N. Y. Tossing-up toys. 369,449; July 25; Serial No. 415,092; published Feb. 28, 1939. Class 22.

Trinity Cotton Oil Co., Dallas, Tex. Shortening, and salad and cooking oils. 369,473; July 25; Serial No. 416,021; published May 16, 1939. Class 46.

Union Meat Company, Portland and North Portland, Oreg., assignor to Swift and Company, Chicago, Ill. Nut-margarin and oleomargarin. 127,151; renewed Oct. 21, 1939.

United Cigar-Whelan Stores Corporation, New York, N. Y. Tooth paste. 369,550; July 25. Class 6.

United Furniture Stores, Chicago, Ill. Kitchen furniture, juvenile furniture, novelty furniture, etc. 369,403; July 25; Serial No. 406,535; published July 12, 1938. Class 32.

United States Rubber Products, Inc., assignor to United States Rubber Company, New York, N. Y. Pneumatic tires. 369,538; July 25. Class 35.

Utility Dress Co., New York, N. Y. Piece goods. 369,491; July 25; Serial No. 416,664; published May 16, 1939. Class 42.

Vanadium-Alloys Steel Company, Latrobe, Pa. Metal alloy and welding rods made of the same. 369,500; July 25; Serial No. 416,882; published May 16, 1939. Class 14.

Varcraft Works, Incorporated. (See Brown, Frank H., assignor.)

Vogt, F. G., & Sons, Incorporated, Philadelphia, Pa. Pork sausages. 369,456; July 25; Serial No. 415,364; published May 9, 1939. Class 46.

Walker, Tom, Inc., Pittsburgh and Glenfield, Pa. Whiskey. 369,475; July 25; Serial No. 416,126; published May 16, 1939. Class 49.

Walter, A. C., & Company, New York, N. Y. Base blocks made of green onyx. 369,477; July 25; Serial No. 416,219; published May 16, 1939. Class 1.

Warren Lamp Company, Warren, Pa. Electric incandescent lamps. 369,421; July 25; Serial No. 412,532; published May 16, 1939. Class 21.

Webster Electric Company, Racine, Wis. Inter-communicating sound amplifying and transmitting systems and parts thereof. 369,450; July 25; Serial No. 415,094; published May 16, 1939. Class 21.

Welmaid Manufacturing Corporation, Chicago, Ill. Compound for polishing and retarding the polishing of silver. 369,503; July 25; Serial No. 416,978; published May 16, 1939. Class 4.

Western Railroad Supply Company, Chicago, Ill. Insulating preservative and non-corrosive paint for industrial arts. 369,437; July 25; Serial No. 414,385; published May 16, 1939. Class 16.

White Motor Company, The, Cleveland, Ohio. Automobiles. 126,974; renewed Oct. 14, 1939.

White-Rodgers Electric Company, St. Louis, Mo. Instruments and controls responsive to temperature. 369,413; July 25; Serial No. 411,111; published May 16, 1939. Class 26.

Willcox & Gibbs Sewing Machine Company, New York, N. Y. Machines for forming labels from strip material. 369,431; July 25; Serial No. 413,693; published May 16, 1939. Class 23.

Williams Manufacturing Company, Nashville, Tenn. Lead pencils. 369,444; July 25; Serial No. 414,850; published May 16, 1939. Class 37.

Wolf, Jacques, & Co., Clifton, N. J. Product to be used as an ingredient for lacquers and paints. 369,414; July 25; Serial No. 411,112; published May 16, 1939. Class 16.

Yorke Beverages, Inc., The, Yonkers, N. Y. Maltless beverages. 369,506; July 25; Serial No. 417,074; published May 16, 1939. Class 45.

Young Things, Pasadena, Calif. Wooden toys and games employing wooden parts. 369,488; July 25; Serial No. 416,528; published May 16, 1939. Class 22.

Zanol Products Co., The, Cincinnati, Ohio. Dog food. 369,519; July 25; Serial No. 417,317; published May 9, 1939. Class 46.

LIST OF REGISTRANTS OF LABELS

Ba-Ket Inc., Chicago, Ill. Ba-Ket. For a Game. 53,305; July 25.

Barnett, Max, Furniture Co., Inc., New Orleans, La. Windsor Hall. For Furniture. 53,306; July 25.

Bawden Brothers Inc., Davenport, Iowa. True Value. For Insulation. 53,307; July 25.

Gillette Safety Razor Company, Boston, Mass. Thin Gillette Blade. For Blades. 53,308; July 25.

Loeb, H. A., & Co., Chicago, Ill. Miss U. S. A. Purs-pak Human Hair Nets. For Hair Nets. 53,310; July 25.

Maurer, Charles B., doing business as Maurer Laboratories, Chicago, Ill. Zantox. For Tablets for the Relief of Flatulence, Digestive Distress and Biliary Disturbances. 53,311; July 25.

Mead Johnson & Company, Evansville, Ind. Mead's Cereal Enriched with Mineral and Vitamin Containing Foods. For a Palatable Mixed Cereal Food, Vitamin and Mineral Enriched, Composed of Wheatmeal (Farina), Oatmeal, Yellow Cornmeal, Wheat Embryo, Powdered Beef Bone Specially Prepared for Human Use, Dried Yeast, Powdered Dehydrated Alfalfa Leaf, and Iron Salt. 53,309; July 25.

Miller, Welty, Fairchance, Pa. Miller's Bark Treatment. For a Bark Treatment for Trees. 53,312; July 25.

Reape, John E., doing business as John E. Reape Company, Youngstown, Ohio. Reapes Shampoo to Remove Loose Dandruff Scales. For Shampoo. 53,313; July 25.

Wampole, Henry K., & Co., Incorporated, Philadelphia, Pa. Wampole's Preparation. For a Tonic and Stimulant. 53,314; July 25.

LIST OF REGISTRANTS OF PRINTS

Falls City Brewing Company, Inc., Louisville, Ky. Take Your Choice. For Beer. 17,517; July 25.

Parker Pen Company, The, Janesville, Wis. The Parker Debutante Now Makes Its Formal Bow. For Fountain Pens, Mechanical Pencils, and Ink. 17,518; July 25.

Putnam Knitting Co., Cohoes, N. Y. Handy Ann. For Dish Cloths. 17,519; July 25.

Rosen, S., Mfg. Co. Inc., Utica, N. Y. Nustile Steering Wheel Cover. For Automobile Steering Wheel Covers. 17,520; July 25.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Bags and sacks adaptable for use in making towels, dust cloths, etc. Charles Schwartz & Co. 369,435; July 25; Serial No. 414,083; published May 16, 1939.

Base blocks made of green onyx. A. C. Walter & Company. 369,477; July 25; Serial No. 416,219; published May 16, 1939.

Casein used in the industry arts. New Zealand Co-Operative Dairy Company Limited. 369,425; July 25; Serial No. 413,233; published May 16, 1939.

Clays, Pulverized. International Pulverizing Company. 369,442; July 25; Serial No. 414,566; published May 16, 1939.

Leather. Monarch Leather Company. 369,533; July 25.

Leather, skins unwrought and wrought. Connolly Brothers (Curriers) Limited. 369,460; July 25; Serial No. 415,444; published May 16, 1939.

Resin material, Thermoplastic synthetic. Austenal Laboratories, Inc. 369,415; July 25; Serial No. 411,147; published Nov. 22, 1938.

Resins, Polyvinyl acetal. E. I. du Pont de Nemours and Company. 369,462; July 25; Serial No. 415,473; published Apr. 18, 1939.

Trees, Fruit. R. R. Emlong. 369,474; July 25; Serial No. 416,060; published May 16, 1939.

CLASS 2

Cartons, Paper. Menasha Products Company. 369,539; July 25.

Envelopes, Merchandise. Berkowitz Envelope Company. 369,534; July 25.

CLASS 4

Compound for polishing and retarding the tarnishing of silver. Welmaid Manufacturing Corporation. 369,503; July 25; Serial No. 416,978; published May 16, 1939.

Cream, Shaving. Colgate-Palmolive-Peet Company. 369,520; July 25; Serial No. 417,328; published May 16, 1939.

Soap, Shoe. Hecker Products Corporation. 369,527; July 25; Serial No. 417,616; published May 16, 1939.

Soaps, soap pastes, soap powders, etc., Toilet. Parfumerie Roger et Gallet, Société Anonyme. 369,490; July 25; Serial No. 416,581; published May 9, 1939.

CLASS 6

Drugs, chemicals, and pharmaceutical preparations. Abbott Laboratories. 127,803; renewed Dec. 9, 1939.

Flame-proofing compound. Federal Research Products, Inc. 369,535; July 25.

Medicated shields, pads or plasters, Adhesive. Scholl Mfg. Co. 369,502; July 25; Serial No. 416,968; published May 9, 1939.

Medicinal remedy. Bell & Company. 126,920; renewed Oct. 14, 1939.

Powder, Talcum. Agra Company. 125,924; renewed July 15, 1939.

Preparations indicated in the treatment of constipation. Professional Laboratories, Inc. 369,536; July 25.

Salt composition for use in curing meats and like animal products. Griffith Laboratories, Inc. 369,540–1; July 25.

Starch, Laundry. A. E. Staley Manufacturing Company. 369,551; July 25.

Tooth paste. United Cigar-Whelan Stores Corporation. 369,550; July 25.

CLASS 11

Inks, stencil, and marking inks, etc., Printing. Black Bear Company. 369,387; July 25; Serial No. 398,753; published Jan. 17, 1939.

CLASS 13

Cooking utensil, Combination steel. Eaton Manufacturing Company. 369,546; July 25.

Nozzles, Hose. American LaFrance-Foamite Corporation. 369,501; July 25; Serial No. 416,939; published May 16, 1939.

Seats, Toilet. Autokraft Box Corporation. 369,505; July 25; Serial No. 417,048; published May 16, 1939.

Valve needles and valve seats for expansion valves. Detroit Lubricator Company. 369,381; July 25; Serial No. 374,234; published May 16, 1939.

CLASS 14

Castings, Ferrous metal. Standard Oil Company of California. 369,526; July 25; Serial No. 417,509; published May 16, 1939.

Metal. Monarch Metal Weatherstrip Corporation. 369,522; July 25; Serial No. 417,382; published May 16, 1939.

Metal alloy and welding rods made of the same. Vanadium-Alloys Steel Company. 369,500; July 25; Serial No. 416,882; published May 16, 1939.

Steel strip. Acme Steel Company. 369,480; July 25; Serial No. 416,236; published May 9, 1939.

CLASS 16

Insulating preservative and non-corrosive paint for industrial arts. Western Railroad Supply Company. 369,437; July 25; Serial No. 414,385; published May 16, 1939.

Paints, colors in oil, paint enamels, etc. Glidden Company. 369,548; July 25.

Paints, paint enamels, stains, etc. H. B. Davis Co. 369,514; July 25; Serial No. 417,204; published May 16, 1939.

Paints, paint enamels, stains, etc. Patterson-Sargent Company. 369,510–11; July 25; Serial Nos. 417,137–8; published May 16, 1939.

Paints, ready-mixed paints, colors in oil, etc., Enamel. F. H. Brown. 128,020; renewed Dec. 23, 1939.

Polish and cleaner for furniture finished surfaces. R. E. Inson. 369,448; July 25; Serial No. 415,041; published May 16, 1939.

Polish and glaze, Automobile. Bennett Chemical Company. 369,523; July 25; Serial No. 417,395; published May 16, 1939.

Product to be used as an ingredient for lacquers and paints. Jacques Wolf & Co. 369,414; July 25; Serial No. 411,112; published May 16, 1939.

CLASS 19

Aeroplane propellers. Freedman-Burnham Engineering Corporation. 369,493; July 25; Serial No. 416,798; published May 16, 1939.
Aircraft propellers, propeller blades and hubs, Composite. Engineering and Research Corporation. 369,521; July 25; Serial No. 417,333; published May 16, 1939.
Automobiles. White Motor Company. 126,974; renewed Oct 14, 1939.
Trucks, Motor. Evans Products Company. 369,388; July 25; Serial No. 400,001; published May 16, 1939.
Vehicle slip covers. Bemis Bro. Bag Company. 369,489; July 25; Serial No. 416,537; published May 16, 1939.

CLASS 21

Devices for controlling or modifying electrical currents. Raytheon Manufacturing Company. 369,432; July 25; Serial No. 413,736; published May 9, 1939.
Electric lighting plant. R. A. Lister & Company Limited. 369,518; July 25; Serial No. 417,286; published May 16, 1939.
Electrical wire and cable, Insulated. Anaconda Wire & Cable Company. 369,399; July 25; Serial No. 404,510; published May 16, 1939.
Fence controller apparatus, Electric. Sparks-Withington Company. 369,451; July 25; Serial No. 415,232; published May 9, 1939.
Flashlights. Salz Brothers, Inc. 369,434; July 25; Serial No. 413,913; published May 9, 1939.
Lamp, Electric. Eagle Electric Mfg. Co. Inc. 369,545; July 25.
Lamps, Electric incandescent. Warren Lamp Company. 369,421; July 25; Serial No. 412,532; published May 16, 1939.
Projectors, Electric score. Brunswick-Balke-Collender Company. 369,516; July 25; Serial No. 417,256; published May 16, 1939.
Ranges and parts therefor, Electric. Stewart-Warner Corporation. 369,429; July 25; Serial No. 413,652; published May 9, 1939.
Sound amplifying and transmitting systems and parts thereof, Inter-communicating. Webster Electric Company. 369,450; July 25; Serial No. 415,094; published May 16, 1939.
Spark plugs, low tension fuses, resistances, etc. A. Ruprecht. 369,439; July 25; Serial No. 414,431; published May 16, 1939.
Telegraph keys. Martin Manufacturing and Research Corp. 369,455; July 25; Serial No. 415,254; published May 16, 1939.
Transformers and stationary induction apparatus, Electric. General Electric Company. 369,461; July 25; Serial No. 415,452; published May 9, 1939.
Transformers, Electric. General Electric Company. 369,463; July 25; Serial No. 415,450; published May 9, 1939.
Waffle irons, Electric. Manning, Bowman & Co. 369,458; July 25; Serial No. 415,406; published May 9, 1939.
Wires and cables, Insulated electric. Rockbestos Products Corporation. 369,472; July 25; Serial No. 415,999; published May 16, 1939.

CLASS 22

Balls, Golf. Fisk Rubber Corporation. 369,529; July 25; Serial No. 417,908; published May 16, 1939.
Games, Card. W. M. Coleman. 369,446; July 25; Serial No. 414,913; published May 16, 1939.
Punch boards. C. A. Jones. 369,436; July 25; Serial No. 414,225; published May 16, 1939.
Toys. P. E. Allen. 369,412; July 25; Serial No. 410,982; published May 16, 1939.
Toys and games employing wooden parts, Wooden. Young Things. 369,488; July 25; Serial No. 416,528; published May 16, 1939.
Toys, Tossing-up. Trac Trac Novelty Co. 369,449; July 25; Serial No. 415,092; published Feb. 28, 1939.

CLASS 23

Bearings and journal bearings therefor, Machinery shaft. Federal-Mogul Corporation. 369,447; July 25; Serial No. 414,990; published May 16, 1939.
Bottle-capping machines, bottle-filling machines, etc. Crown Cork and Seal Company of Baltimore City. 127,916; renewed Dec. 16, 1939.
Crushers, and teeth therefor, Single roll. Jeffrey Manufacturing Company. 369,544; July 25.
Dies, Steel. A. Finkl & Sons Company. 369,486; July 25; Serial No. 416,409; published May 16, 1939.
Digging machines, clay and sand digging machines, etc., Ditch. Buckeye Traction Ditcher Company. 369,401; July 25; Serial No. 404,596; published May 9, 1939.
Drills, jigs, boring jigs, etc. C. H. Gemill. 369,478; July 25; Serial No. 416,221; published May 9, 1939.
Locomotives. Fate-Root-Heath Company. 369,524; July 25; Serial No. 417,403; published May 16, 1939.
Machines for forming labels from strip material. Willcox & Gibbs Sewing Machine Company. 369,431; July 25; Serial No. 413,693; published May 16, 1939.
Material-handling machinery. Schaffer Engineering & Equipment Co. 127,495; renewed Nov. 11, 1939.
Mowers, Power lawn. Jacobsen Manufacturing Company. 369,457; July 25; Serial No. 415,394; published May 16, 1939.
Needles, knives of steel and stainless steel, scissors, etc., Machine. Boye Needle Company. 369,397; July 25; Serial No. 403,750; published May 16, 1939.
Printing rollers and loom supplies. Dayton Rubber Manufacturing Company. 369,464; July 25; Serial No. 415,472; published May 16, 1939.
Razor blades. Plymouth Wholesale Dry Goods Corporation. 369,537; July 25.
Razors and shears, Barbers'. Bresduck, Inc. 369,417; July 25; Serial No. 411,616; published May 16, 1939.
Saws and saw tables, Circular. Delta Manufacturing Company. 369,416; July 25; Serial No. 411,448; published May 9, 1939.
Shoveling machines. Buckeye Traction Ditcher Company. 369,402; July 25; Serial No. 404,597; published May 9, 1939.
Tool for use by hair dressers in the removal of hair pins from the hair, Magnetic. Century Hair Dryer Co. 369,438; July 25; Serial No. 414,394; published May 16, 1939.
Weeders, Rotary rod. Cheney Weeder Company. 369,452; July 25; Serial No. 415,324; published May 9, 1939.

CLASS 26

Instruments and controls responsive to temperature. White-Rodgers Electric Company. 369,413; July 25; Serial No. 411,111; published May 16, 1939.
Measuring and scientific appliances. H. Kempenich. 126,941; renewed Oct. 14, 1939.
Photo-engraving equipment and supplies. Aurora School of Photo Engraving. 369,396; July 25; Serial No. 403,536; published May 16, 1939.
Photographing apparatus, Automatic. W. W. Rice. 369,405; July 25; Serial No. 408,658; published Oct. 4, 1938.
Radio testing units, testing instruments, and measuring instruments. Service Instruments Inc. 369,469; July 25; Serial No. 415,799; published May 9, 1939.
Vending machines, Insurance policy. R. E. Carter. 369,43; July 25; Serial No. 414,611; published May 9, 1939.

CLASS 27

Clocks and watches. General Time Instruments Corporation. 369,392; July 25; Serial No. 402,370; published May 16, 1939.
Watches. A. G. Schwab & Sons, Inc. 369,391; July 25; Serial No. 401,916; published May 16, 1939.
Watches and watch movements. Latham Watch Co. 369,555; July 25.
Watches and watch movements. L. A. Schwob. 369,549; July 25.

CLASS 31

Coolers, Beverage. Pepsi-Cola Company. 369,426; July 25; Serial No. 413,237; published May 16, 1939.
Filter papers. "Delta" Papier- und Filter-Kommanditgesellschaft, Blingeler & Co. 369,394; July 25; Serial No. 402,852; published May 16, 1939.
Refrigerating apparatus and parts thereof. General Refrigerating Corporation. 369,530; July 25; Serial No. 418,003; published May 16, 1939.
Refrigerators. Gibson Electric Refrigerator Corporation. 369,528; July 25; Serial No. 417,684; published May 16, 1939.

CLASS 32

Cushions, mattresses, and padding, Sponge rubber. Firestone Tire & Rubber Company. 369,386; July 25; Serial No. 398,004; published Feb. 14, 1939.
Furniture, juvenile furniture, novelty furniture, etc., Kitchen. United Furniture Stores. 369,403; July 25; Serial No. 406,535; published July 12, 1938.
Mattresses and box springs. Sealy, Incorporated. 369,513; July 25; Serial No. 417,185; published May 16, 1939.
Mirrors. Schrenk & Company. 369,418; July 25; Serial No. 411,755; published May 9, 1939.

CLASS 33

Sheets of colored glass to be cut up for tiles, etc. Semon Bache & Company. 369,395; July 25; Serial No. 403,095; published May 16, 1939.

CLASS 34

Blower wheels, Centrifugal. Torrington Manufacturing Company. 369,512; July 25; Serial No. 417,147; published May 16, 1939.
Collectors for air conditioning, Centrifugal type dust. Sturtevant Mill Company. 369,492; July 25; Serial No. 416,710; published May 16, 1939.
Heating, lavatory, and lunch warming units, Water. Showerway Company. 369,398; July 25; Serial No. 404,452; published July 25, 1939.
Lamp shades. Bradley Manufacturing Co. 369,542; July 25.
Torches, Cutting. Modern Engineering Company. 369,515; July 25; Serial No. 417,227; published May 16, 1939.

CLASS 35

Fruit-jar rubbers. Acme Rubber Manufacturing Company. 128,211; renewed Dec. 23, 1939.
Tires and rubber inner tubes. I. Spevack. 369,468; July 25; Serial No. 415,748; published May 16, 1939.

Tires and tubes. Globe Oil & Refining Company. 369,445; July 25; Serial No. 414,877; published May 16, 1939.
Tires and tubes, Pneumatic. Apex Tire Inc. 369,404; July 25; Serial No. 408,592; published May 16, 1939.
Tires, Pneumatic. United States Rubber Products, Inc. 369,538; July 25.
Tires, Rubber. Atlas Supply Company. 369,531; July 25; Serial No. 418,030; published May 16, 1939.

CLASS 36

Reeds for clarinets and other musical instruments. Chicago Musical Instrument Company. 369,517; July 25; Serial No. 417,263; published May 16, 1939.

CLASS 37

Paper for use in duplicating machines. Lee Paper Company. 369,409; July 25; Serial No. 409,882; published May 16, 1939.
Paper table cloths and napkins. American Tissue Mills. 369,411; July 25; Serial No. 410,496; published Jan. 24, 1939.
Pencils, Lead. Williams Manufacturing Company. 369,444; July 25; Serial No. 414,850; published May 16, 1939.

CLASS 42

Bedspreads, bath mats, and other chenille and tufted articles. G. H. Rauschenberg, Inc. 369,407; July 25; Serial No. 408,936; published May 16, 1939.
Cloth, Window shade. Columbia Mills, Inc. 369,481; July 25; Serial No. 416,248; published May 16, 1939.
Cotton piece goods. Pacific Mills. 127,979; renewed Dec. 16, 1939.
Fabrics, Cotton pile. Sidney Blumenthal & Co. Inc. 369,382; July 25; Serial No. 375,748; published May 9, 1939.
Fabrics, Finished textile. Mount Hope Finishing Company. 369,498–9; July 25; Serial Nos. 416,864–5; published May 16, 1939.
Fabrics in the piece. Lorraine Manufacturing Company. 369,440; July 25; Serial No. 414,500; published May 16, 1939.
Goods, Piece. Utility Dress Co. 369,491; July 25; Serial No. 416,664; published May 16, 1939.
Laces, embroideries. Samuel Ehrman Co. Inc. 369,459; July 25; Serial No. 415,435; published May 16, 1939.
Piece goods. Dumari Textile Co. 369,383; July 25; Serial No. 380,626; published Sept. 14, 1937.
Piece goods. Dumari Textile Co. 369,384; July 25; Serial No. 380,865; published Sept. 14, 1937.
Piece goods. Lampl Sportswear Manufacturing Company. 369,410; July 25; Serial No. 410,124; published May 16, 1939.
Piece goods. Lankenau Co. 369,553; July 25.
Rugs, Woven textile. Bigelow-Sanford Carpet Co. Inc. 369,389; July 25; Serial No. 400,185; published May 16, 1939.
Velveteens. Crompton Company. 127,917; renewed Dec. 16, 1939.
Yarn. Monarch Mills, Incorporated. 369,406; July 25; Serial No. 408,929; published Sept. 27, 1938.

CLASS 43

Thread and yarn. E. I. du Pont de Nemours and Company. 369,479; July 25; Serial No. 416,228; published Apr. 25, 1939.
Thread, Elastic. Dritz-Traum Company. 369,467; July 25; Serial No. 415,707; published May 9, 1939.
Thread, Rubber covered. Sea Island Thread Mfg. Corp. 369,454; July 25; Serial No. 415,265; published May 9, 1939.
Thread, yarn, and flat thread tape, Asbestos. Keasbey & Mattison Company. 369,423; July 25; Serial No. 412,909; published Apr. 25, 1939.
Threads, yarns, and novelty yarns. National Silk Company. 369,483; July 25; Serial No. 416,263; published May 9, 1939.
Yarn. Regent Braid and Trimming Co. Inc. 369,487; July 25; Serial No. 416,438; published May 9, 1939.
Yarn, Rayon. Industrial Rayon Corporation. 369,408; July 25; Serial No. 409,573; published Apr. 25, 1939.
Yarns for art needlework. Fleisher Yarns, Inc. 369,509; July 25; Serial No. 417,125; published May 16, 1939.
Yarns, Woolen. H. Ernst & Cie. 369,482; July 25; Serial No. 416,252; published Apr. 25, 1939.

CLASS 44

Dental, medical, and surgical appliances. Fawcett & Fawcett. 126,275; renewed Aug. 19, 1939.

CLASS 45

Beverages, Nonalcoholic maltless. High Rock Ginger Ale Company. 369,496–7; July 25; Serial Nos. 416,851–2; published May 16, 1939.
Beverages, Nonalcoholic, noncereal, maltless. Yorke Beverages, Inc. 369,506; July 25; Serial No. 417,074; published May 16, 1939.
Juice and grape juice concentrates, Grape. National Grape Corporation. 369,507–8; July 25; Serial Nos. 417,097–8; published May 16, 1939.

CLASS 46

Candy. H. B. Burt. 126,923; renewed Oct. 14, 1939.
Candy. Georges-George De Met & Bros., Inc. 369,470; July 25; Serial No. 415,984; published May 16, 1939.
Candy for domestic animals, Vitamine. Canine Vita-Candy Company. 369,385; July 25; Serial No. 387,061; published May 16, 1939.
Candy, honey, kumquat syrup, etc. C. S. Taylor & Co. 369,427; July 25; Serial No. 413,250; published May 16, 1939.
Canned soups. Kemco Products Company. 369,400; July 25; Serial No. 404,532; published Nov. 15, 1938.
Cheese flavoring for baked goods. Borden Company. 369,433; July 25; Serial No. 413,892; published Mar. 14, 1939.
Cheese food mixture, Pasteurized. Borden Company. 369,466; July 25; Serial No. 415,631; published May 16, 1939.
Chow mein, Chicken. Diplomat Products, Inc. 369,465; July 25; Serial No. 415,584; published May 9, 1939.
Confections, nut toppings, and chocolate coatings, Frozen. Joe Lowe Corporation. 369,422; July 25; Serial No. 412,648; published Feb. 14, 1939.
Cookies. J. S. Ivins' Son, Inc. 369,419; July 25; Serial No. 411,869; published May 16, 1939.
Eggs. Independent Food Products Co. Inc. 369,494; July 25; Serial No. 416,800; published May 16, 1939.
Extract, Barbecue table. J. A. Herrmann. 369,471; July 25; Serial No. 415,985; published May 16, 1939.
Feeds; flour; and cottonseed meal, and soybean meal. General Mills, Inc. 369,441; July 25; Serial No. 414,561; published May 16, 1939.
Food, Dog. Nestra Packing Company. 369,525; July 25; Serial No. 417,412; published May 16, 1939.
Food, Dog. Zanol Products Co. 369,519; July 25; Serial No. 417,317; published May 9, 1939.
Fruit, Fresh citrus. C. E. Marcy. 369,393; July 25; Serial No. 402,533; published May 16, 1939.
Fruits, Fresh citrus. J. C. Connell. 369,495; July 25; Serial No. 416,843; published May 16, 1939.
Ice cream. Big Lion, Incorporated. 369,532; July 25.
Milk, buttermilk, and other cultured milks, etc. Sealtest, Inc. 369,430; July 25; Serial No. 413,687; published May 16, 1939.
Nut-margarin and oleomargarin. Union Meat Company. 127,151; renewed Oct. 21, 1939.
Potatoes. Maine Potato Growers, Inc. 369,424; July 25; Serial No. 413,196; published Feb. 14, 1939.
Sausages, Pork. F. G. Vogt & Sons, Incorporated. 369,456; July 25; Serial No. 415,364; published May 9, 1939.
Shortening, and salad and cooking oils. Trinity Cotton Oil Co. 369,473; July 25; Serial No. 416,021; published May 16, 1939.
Syrup. Topit Company. 369,453; July 25; Serial No. 415,312; published May 16, 1939.
Vegetables, Fresh. Associated Growers of Brownsville. 369,504; July 25; Serial No. 416,986; published May 16, 1939.
Wheat, rice, and corn in a puffed or flaked form. J. S. Rex. 369,484; July 25; Serial No. 416,340; published May 16, 1939.

CLASS 47

Wine, Champagne. Joseph Perrier Fils & Cie. 369,554; July 25.
Wines. Schenley Import Corporation. 369,390; July 25; Serial No. 400,571; published May 16, 1939.

CLASS 49

Whiskey. James B. Bean Distilling Co. 369,543; July 25.
Whiskey. Tom Walker, Inc. 369,475; July 25; Serial No. 416,126; published May 16, 1939.
Whiskey, gin, rum, etc. Joseph S. Finch and Company. 369,428; July 25; Serial No. 413,579; published May 16, 1939.
Whisky, Scotch. William Greer & Co. Limited. 369,476; July 25; Serial No. 416,186; published May 16, 1939.

CLASS 50

Caps or closures. Anchor Cap & Closure Corporation. 369,485; July 25; Serial No. 416,395; published May 16, 1939.
Curtain and fabric stretchers, quilting frames, etc. Butts Manufacturing Co. 369,547; July 25.
Monuments and memorials, Granite. Barre Granite Association, Inc. 369,552; July 25.
Package of small articles, such as candy, paper hats, toy balloons, etc., Party Mart, Inc. 369,420; July 25; Serial No. 412,388; published May 16, 1939.
Waterproof textile fabrics. Eastern Finishing Works, Inc. 127,225; renewed Oct. 28, 1939.

LIST OF LABELS

Ba-Ket. For a Game. Ba-Ket Inc. 53,305; July 25.

Mead's Cereal Enriched with Mineral and Vitamin Containing Foods. For a Palatable Mixed Cereal Food, Vitamin and Mineral Enriched, Composed of Wheatmeal (Farina), Oatmeal, Yellow Cornmeal, Wheat Embryo, Powdered Beef Bone Specially Prepared for Human Use, Dried Yeast, Powdered Dehydrated Alfalfa Leaf, and Iron Salt. Mead Johnson & Company. 53,309; July 25.

Miss U. S. A. Purs-pak Human Hair Nets. For Hair Nets. H. A. Loeb & Co. 53,310; July 25.

Miller's Bark Treatment. For a Bark Treatment for Trees. W. Miller. 53,312; July 25.

Reapes Shampoo to Remove Loose Dandruff Scales. For Shampoo. J. E. Reape. 53,313; July 25.

Thin Gillette Blade. For Blades. Gillette Safety Razor Company. 53,308; July 25.

True Value. For Insulation. Bawden Brothers Inc. 53,307; July 25.

Wampole's Preparation. For a Tonic and Stimulant. Henry K. Wampole & Co. 53,314; July 25.

Windsor Hall. For Furniture. Max Barnett Furniture Co. 53,306; July 25.

Zantox. For Tablets for the Relief of Flatulence, Digestive Distress and Biliary Disturbances. C. B. Maurer. 53,311; July 25.

LIST OF PRINTS

Handy Ann. For Dish Cloths. Putnam Knitting Co. 17,519; July 25.

Nustile Steering Wheel Cover. For Automobile Steering Wheel Covers. S. Rosen Mfg. Co. Inc. 17,520; July 25.

Take Your Choice. For Beer. Falls City Brewing Company. 17,517; July 25.

The Parker Debutante Now Makes Its Formal Bow. For Fountain Pens, Mechanical Pencils, and Ink. Parker Pen Company. 17,518; July 25.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Alexander, Johan W., and H. Rinia, Eindhoven, Netherlands, assignors to Radio Corporation of America. Antenna system. Re. 21,157; July 25.

Emmert, Rodger J., Birmingham, Mich., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Acoustic device. Re. 21,159; July 25.

Frankenstein, William P., Cincinnati, Ohio. Collapsible carton. Re. 21,158; July 25.

Hillis, David R., Detroit, Mich., assignor, by mesne assignments, to Trabon Engineering Corporation, Cleveland, Ohio. Reversible lubricating feeder system. Re. 21,160; July 25.

Korsmo, Alfred, Hopkins, and M. Ronning, St. Louis Park, assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn. Combine. Re. 21,161; July 25.

Lard, Allan E., Washington, D. C. Rebound check for golf club shafts. Re. 21,162; July 25.

Minneapolis-Moline Power Implement Company. (See Korsmo, A., and Ronning, assignors.)

Norton Company. (See Van der Pyl, Edward, assignor.)

Radio Corporation of America. (See Alexander, J. W., and Rinia, assignors.)

Radio Corporation of America. (See Emmert, Rodger J., assignor.)

Radio Corporation of America. (See Rose, George M., Jr., assignor.)

Rinia, Herre. (See Alexander, J. W., and Rinia.)

Ronning, Martin. (See Korsmo, A., and Ronning.)

Rose, George M., Jr., East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Stem for electron discharge devices. Re. 21,163; July 25.

Tate, William T., Manchester, England. Apparatus for lining pipes with cementitious material. Re. 21,164; July 25.

Trabon Engineering Corporation. (See Hillis, David R., assignor.)

Van der Pyl, Edward, Holden, assignor to Norton Company, Worcester, Mass. Abrasive wheel. Re. 21,165; July 25.

LIST OF DESIGN PATENTEES

Abeles, Jerome, assignor to The Formfit Company, Chicago, Ill. Foundation garment. 115,886; July 25.

Alexander, Merrill L. (See Gaultier, M. P., and Alexander.)

Altman, Bernard, New York, and P. Stiller, Bronx, N. Y. Steam generating electric sadiron. 115,842; July 25.

American Can Company. (See Worthington, Everett, assignor.)

Anchor-Hocking Glass Corporation. (See Barbiers, Ferdinand S., assignor.)

Arnold, Elwyn A., San Francisco, Calif. Carbonator. 115,827; July 25.

Augenstein, Eugen, Pforzheim, Germany, assignor to Universal Chain Co., Inc., Maplewood, N. J. Chain. 115,843; July 25.

Autoyre Company, The. (See Sanford, Roy S., assignor.)

Bailey-Walker China Company, The. (See Walker, Albert M., assignor.)

Barbiers, Ferdinand S., assignor to Anchor-Hocking Glass Corporation, Lancaster, Ohio. Glass cream pitcher or article of similar nature. 115,828; July 25.

Bausch & Lomb Optical Company. (See Bouchard, Samuel E., assignor.)

Bayor, Helen, New York, N. Y. Dress. 115,887; July 25.

Berman, Israel, New York, N. Y. Slipper. 115,878; July 25.

Blitzer, Morris A., New York, N. Y. Changeable order placard. 115,829; July 25.

Bouchard, Samuel E., assignor to Bausch & Lomb Optical Company, Rochester, N. Y. Goggle. 115,877; July 25.

Burgess, George F., Cleveland, Ohio. Combination clearance and side marker lamp for motor vehicles. 115,844; July 25.

Conant, Roger, New York, N. Y., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Mirror back or similar article. 115,845; July 25.

Crosby Steam Gage & Valve Company. (See Smith, Norman J., assignor.)

Defren, Irving, Brooklyn, N. Y. Mantlepiece-ornament or similar article. 115,846; July 25.

Defren, Irving, Brooklyn, N. Y. Mantlepiece-ornament or similar article. 115,847; July 25.

Deynzer, John G., Chicago, Ill. Double paper plate casing. 115,876; July 25.

Dunlop Tire and Rubber Corporation. (See Lambourn, Leonard J., assignor.)

Electric Household Utilities Corporation. (See Gerhardt, Andrew H., assignor.)

Elkin, Newton, Philadelphia, Pa. Shoe or similar article. 115,874; July 25.

Elkin, Newton, Philadelphia, Pa. Shoe or similar article. 115,875; July 25.

Engel, Alice, New York, N. Y. Dress ensemble. 115,888; July 25.

Engel, Alice, New York, N. Y. Dress. 115,889; July 25.

Engel, Alice, New York, N. Y. Dress. 115,890; July 25.

Epstein, Louis J., Jersey City, N. J. Slipper. 115,872; July 25.

Epstein, Louis J., Jersey City, N. J. Slipper. 115,873; July 25.

Esterbrook Steel Pen Manufacturing Co., The. (See Longmaid, Sydney E., assignor.)

Feintuck, Rose, New York, N. Y. Dress. 115,891; July 25.

Formfit Company, The. (See Abeles, Jerome, assignor.)

Frederick, Robert E., New York, N. Y. Slipper. 115,871; July 25.

Fuerst, Brooks D., assignor to Owens-Illinois Glass Company, Toledo, Ohio. Jug. 115,848; July 25.

Gaultier, Michael P., St. Paul, and M. L. Alexander, Minneapolis, Minn. Washing machine. 115,879; July 25.

General Electric Company. (See Petzold, William B., assignor.)

Gerhardt, Andrew H., assignor to Electric Household Utilities Corporation, Chicago, Ill. Wringer head. 115,849; July 25.

Greenfield, Irving, Newark, assignor of one-half to F. W. Schmidt, Maplewood Township, N. J. Combined desk and bookcase. 115,850; July 25.

Hagstrom, Joseph E., assignor to The Vendo Company, Kansas City, Mo. Bottle vending machine. 115,830; July 25.

Hat Corporation of America. (See Moran, Alys C., assignor.)

Hennessy, John F., assignor to Geo. D. Roper Corporation, Rockford, Ill. Oven burner for a gas range. 115,880; July 25.

Hower, Harry C., Chicago, Ill. Automobile tire. 115,851; July 25.

Jacobius, Fred, New York, N. Y. Hat rack. 115,870; July 25.

Jacobs, Dorothy, New York, N. Y. Uniform dress. 115,892; July 25.

Jacobs, Dorothy, New York, N. Y. Uniform dress. 115,893; July 25.

Johnson, Stephens and Shinkle Shoe Company. (See Sutton, John R., assignor.)

Kaempf, Harold B., New York, N. Y. Measuring container. 115,831; July 25.

Kaplan, David, New York, N. Y. Coat. 115,894; July 25.

Kaplan, David, New York, N. Y. Coat. 115,895; July 25.

Katz, Adolph, New York, N. Y. Brooch or similar article. 115,852; July 25.

Kaufmann, George A., Essex Fells, N. J. Brassière or similar article. 115,896; July 25.

Keller, Jack, New York, N. Y. Decorative nail. 115,853; July 25.

Koch, Roderick M., Evansville, Ind. Window shelf. 115,832; July 25.

Kruck, Ralph E., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company. Combined pitcher and cover therefor. 115,833; July 25.

Krueger, Alfred P., Stratford, Conn. Envelope-moistener or the like. 115,869; July 25.

Lambourn, Leonard J., Erdington, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Tire. 115,834; July 25.

Lewis, Florence N., New York, N. Y. Combined perfume holder and cover. 115,881; July 25.

Lombard, Ralph S., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Pneumatic tire. 115,835; July 25.
Loudy, Flavius E., Hempstead, N. Y. Airplane. 115,854; July 25.
Longmaid, Sydney E., Rosemont, Pa., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J. Pen point. 115,868; July 25.
Maji, John J., Omaha, Nebr. Game board. 115,836; July 25.
Mullett, Wayne L., Valparaiso, Ind. Metallized funeral wreath. 115,855; July 25.
Milwaukee Saw Trimmer Corporation. (See Morrison, G. F., and Tapper, assignors.)
Moran, Alys C., New York, N. Y., assignor to Hat Corporation of America, Norwalk, Conn. Hat. 115,897; July 25.
Morrison, George F., and H. J. Tapper, assignors to Milwaukee Saw Trimmer Corporation, Milwaukee, Wis. Typographical trimming machine. 115,882; July 25.
Nurre Companies, The. (See Silverman, Sebet, assignor.)
Owens-Illinois Glass Company. (See Fuerst, Brooks D., assignor.)
Oxweld Acetylene Company. (See Scott, Marvin R., assignor.)
Petzold, William B., Pittsfield, Mass., assignor to General Electric Company. Container for toilet articles or the like. 115,837; July 25.
Prokosch, Walther, New York, N. Y. Chair. 115,838; July 25.
Pro-phy-lac-tic Brush Company. (See Conant, Roger, assignor.)
Pro-phy-lac-tic Brush Company. (See Whiting, Norma S., assignor.)
Roper, Geo. D., Corporation. (See Hennessy, John F., assignor.)
Russell, Manilla Z., New York, N. Y. Dress. 115,898; July 25.
Sanford, Roy S., assignor to The Antoyre Company, Incorporated, Oakville, Conn. Detachable towel rack or similar article. 115,856; July 25.
Schuidt, Ferdinand W. (See Greenfield, Irving, assignor.)
Scofield, Theodore J., assignor to The Sparks-Withington Company, Jackson, Mich. Puch button switch. 115,857; July 25.
Scott, Marvin R., Elizabeth, N. J., assignor to Oxweld Acetylene Company. Multiple flame welding tip. 115,858; July 15.
Silverman, Sebet, Atlantic City, assignor to The Nurre Companies, Inc., Egg Harbor City, N. J. Mirror. 115,839; July 25.
Smith, Norman J., Medfield, assignor to Crosby Steam Gage & Valve Company, Boston, Mass. Recorder chart hub. 115,859; July 25.
Sparks-Withington Company, The. (See Scofield, Theodore J., assignor.)
Starr, Samuel. Gloversville, N. Y. Glove. 115,899; July 25.
Stiller, Paul. (See Altman, B., and Stiller.)
Surbeck, Harry K., Cleveland, Ohio. Baseball game device. 115,860; July 25.
Sutton, John R., assignor to Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo. Shoe. 115,866; July 25.
Sutton, John R., assignor to Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo. Shoe. 115,867; July 25.
Tapper, Harry J. (See Morrison, G. F., and Tapper.)
Terry, William F., Washington, D. C. Fender direction signal lamp. 115,861; July 25.
United States Rubber Company. (Se Lombard, Ralph S., assignor.)
Universal Chain Co. (See Augenstein, Eugen, assignor.)
Vendo Company, The. (See Hagstrom, Joseph E., assignor.)
Walker, Albert M., Akron, assignor to The Bailey-Walker China Company, Bedford, Ohio. Plate or similar article. 115,840; July 25.
Wenger, Georg, assignor to George Wenger Corporation, New York, N. Y. Carrying case. 115,862; July 25.
Wenger, Georg, Corporation. (See Wenger, Georg, assignor.)
Westinghouse Electric & Manufacturing Company. (See Kruck, Ralph E., assignor.)
Whiting, Norma S., South Hadley, assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Mirror back or similar article. 115,863; July 25.
Whiting, Norma S., South Hadley, assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass. Brush back or similar article. 115,864; July 25.
Wood, Schuyler A., Dolgeville, N. Y. Shoe or similar article. 115,865; July 25.
Worthington, Everett, Scarsdale, assignor to American Can Company, New York, N. Y. Spray gun or similar article. 115,883; July 25.
Worthington, Everett, Scarsdale, assignor to American Can Company, New York, N. Y. Spray gun or similar article. 115,884; July 25.
Young, Howard. (See Young, James R. and H.)
Young, James R. and H., Mayfield, Redditch, England. Fishing reel. 115,841; July 25.
Zuckerman, Harry, New York, N. Y. Coat. 115,900; July 25.
Zurawin, Raymond, New York, N. Y. Fruit juice extractor or the like. 115,885; July 25.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abercrombie, Charles W., Nichols, assignor to Bridgeport Brass Company, Bridgeport, Conn. Adjustable venting control for air valves. 2,167,321; July 25.
Adams, Hurl R., Pittsburgh, Pa. Temperature change compensation apparatus. 2,166,935; July 25.
Aktiebolaget Svenska Kullagerfabrieken. (See Leufvén, Axel, assignor.)
Aktiengesellschaft für Stickstoffduenger. (See Lösch, Josef, assignor.)
Alden, Herbert W., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Brake mechanism. 2,167,607; July 25.
Alexandersson, Harald V., and O. G. R. Siewert, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden. Telephone system having two-party lines. 2,167,288; July 25.
Alison, Noah L., assignor to American Blower Corporation, Detroit, Mich. Interrupted core ring coupling. 2,167,382; July 25.
Allin, George S., Seattle, Wash. Bulldozer. 2,167,166; July 25.
Alsing, Carl F., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. 2,167,442; July 25.
American Air Filter Company. (See Hegan, Chester P., assignor.)
American Air Filter Company. (See Nutting, Arthur, assignor.)
American Blower Corporation. (See Alison, Noah L., assignor.)
American Can Company. (See Eberhart, Felix, assignor.)
American Colloid Co. (See Hirschmann, Winfred B., assignor.)
American Cyanamid Company. (See Cox, G. E., and McBurney, assignors.)
American Electrical Heater Company. (See Kuhn, F., and Thomas, assignors.)
American Locomotive Company. (See Weber, Theodore R., assignor.)
American Machine & Foundry Company. (See Ferencl, Lester, assignor.)
American Machine & Foundry Company. (See Leary, James W., assignor.)
American Rolling Mill Company, The. (See Hudson, Edwin B., assignor.)
American Securit Company, The. (See Despret, Georges P., assignor.)
American Steel and Wire Company of New Jersey, The. (See Nigro, Michel, assignor.)
American Steel Foundries. (See Helsten, Wesley, assignor.)
American Steel Foundries. (See Kinne, E. P., and Greenawalt, assignors.)
American Viscose Corporation. (See McDermott, Henry J., assignor.)
Amiot, Félix, Neuilly-sur-Seine, France. Aircraft turret. 2,167,561; July 25.
Anderson, Alexander, Fullerton, assignor, by mesne assignments, to Lane-Wells Company, Los Angeles, Calif. Apparatus for deflecting drill holes. 2,167,194; July 25.
Anderson, Bert J., Hammond, Ind. Velocipede fork. 2,167,020; July 25.
Anderson, Bert J., Hammond, Ind. Velocipede. 2,167,021; July 25.
Anderson, Verner G. (See Tideman, Carl E., assignor.)
Andres, Lloyd J., Chicago, Ill. Remote control device. 2,167,061; July 25.
Andros, Nicholas, Los Angeles, Calif. Butter fork. 2,167,411; July 25.
Apex Electrical Manufacturing Company, The. (See Frantz, Walter A., assignor.)
Appleton Electric Company. (See Tornblom, Nils A., assignor.)
Arenberg, Albert L., Highland Park, assignor to Patent License Corporation, Chicago, Ill. Lighting fixture. 2,167,383; July 25.
Armbruster, Eugen, Bergisch-Gladbach, assignor to Voigtlander & Sohn Aktiengesellschaft, Brunswick, Germany. Range finder. 2,167,229; July 25.
Art Metal Construction Company. (See Finch, Raymond C., assignor.)
Ash, Solomon, Bronx, N. Y. Protective pad. 2,167,195; July 25.
Ashley, Carlyle M. (See Shawhan, S. F., and Ashley.)
Ashtabula Corrugated Box Company, The. (See Sherman, Elroy P., assignor.)
Assmus, Friedrich, assignor to F. Hellige & Co., Freiburg, Breisgau, Germany. Colorimeter. 2,167,060; July 25.
Atlantic Rayon Corporation. (See Little, R., and Fraim, assignors.)
Atlee, Zed J. (See Gross, M. J., and Atlee.)
Auerbach, Rudolf, Neuenhagen, Berlin, Germany, assignor to General Electric Company. Gas reaction method. 2,167,471; July 25.
Aurora Equipment Company. (See Hogle, Stanley L., assignor.)
Auto Union Aktiengesellschaft. (See Schulz, Reinhold E. C., assignor.)
Avigdor, Rifat, Berlin, Germany. Control mechanism. 2,167,230; July 25.
Bacon, Elmer W. (See Buenger, E. F., and Bacon.)
Baesecke, Martin, Berlin-Siemensstadt, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Measuring the altitude of aircraft. 2,167,412; July 25.
Bakelite Corporation. (See Röhrs, Wilhelm, assignor.)
Bakelite Corporation. (See Seebach, Fritz, assignor.)
Bakelite Corporation. (See Turkington, V. H., and Butler, assignors.)
Baker Perkins Company. (See Lasch, A., and Eppler, assignors.)
Baker, Ralph E., assignor to Nash-Kelvinator Corporation, Detroit, Mich. Refrigerating apparatus. 2,167,036; July 25.
Baldwin Rubber Company. (See McDonald, Angus, assignor.)
Baldwin-Southwark Corporation. (See Emery, Albert H., assignor.)
Balle, Gerhard. (See Steindorff, A., Balle, Heimke, and Horst.)
Barber-Colman Company. (See Purvin, Benjamin R., assignor.)
Barrell, William A., North Andover, assignor to Lawrence Duck Company, Lawrence, Mass. Drier felt for paper machines. 2,167,542; July 25.
Bartlett, Reginald F., Weybridge, England, Support such as centering, shuttering, scaffolding, and the like. 2,167,413; July 25.
Barton, Raymond W., and W. M. Cox, Jr., assignors to Mead Johnson & Company, Evansville, Ind. Composition of matter. 2,167,144; July 25.
Bassick Company, The. (See Claud-Mantle, Arthur, assignor.)
Bassick Company, The. (See Herold, Walter F., assignor.)
Bates, Hamilton C. (See Joslyn, Stuart S., assignor.)
Baudou, Maurice, et al. (See Brunswick, Jules, assignor.)
Baudou, Rene, et al. (See Brunswick, Jules, assignor.)
Bauer, Erwin, Mannheim, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Glow discharge oscillator. 2,167,496; July 25.
Beals, Harold L. (See Farner, L. S., Beals, and Haladik.)
Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Thermostatic control of electron discharge apparatus. 2,167,472; July 25.
Beggs, George E., Princeton, N. J. Load maintainer for materials testing apparatus. 2,167,328; July 25.
Belar, Herbert, Philadelphia, Pa., assignor to Radio Corporation of America. Electrical control circuit. 2,167,062; July 25.
Bell Telephone Laboratories, Incorporated. (See Caruthers, Robert S., assignor.)
Bell Telephone Laboatories, Incorporated. (See Halligan, Clair W., assignor.)
Bell Telephone Laboratories, Incorporated. (See Lakatos, Emory, assignor.)
Bell Telephone Laboratories, Incorporated. (See Meyers, Stanley T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Schott, L., and Wright, assignors.)
Bell Telephone Laboratories, Incorporated. (See Skellett, Albert M., assignor.)
Bell Telephone Laboratories, Incorporated. (See Weaver, Myron A., assignor.)
Bendix Aviation Corporation. (See Chappell, R. R., and Colt, assignors.)
Bénézech, Louis P. J. M., Carmaux, France, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Apparatus for producing a smokeless solid fuel. 2,167,099; July 25.
Bénézech, Louis P. J. M., Carmaux, Tarn, France, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa. Preliminary oxidation of caking coal with subsequent coking thereof. 2,167,100; July 25.
Benjamin Electric Mfg. Company. (See Phillips, Paul D., assignor.)
Benjamins, Israel. (See Weiss, M. M., and Benjamins.)
Benkert, John, assignor of one-half to A. H. Langert, Chicago, Ill. Supporter clip. 2,167,167; July 25.

Benner, Raymond C., C. E. Wooddell, and C. S. Nelson, assignors to The Carborundum Company, Niagara Falls, N. Y. Abrasive supporting pad. 2,167,037; July 25.
Berger, Henry G. (See Crandall, G. S., Moran, and Berger.)
Bergmann, Christian N., Pittsburgh, assignor of two-sixths to C. M. Clarke, Sewickley, Pa. Container conveyer and distributor. 2,167,343; July 25.
Berry, Theodore M., Schenectady, N. Y., assignor to General Electric Company. Follow-up device. 2,167,484; July 25.
Bessom, Earl A., Meadville, Pa., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping uppers over lasts. 2,166,936; July 25.
Best Foods, Inc., The. (See Haurand, C. H., Neal, and Vahlteich, assignors.)
Best, John, Detroit, Mich. Pipe wrench. 2,167,145; July 25.
Bettis, William I., Los Angeles, assignor to E. B. Kleaver, Burbank, Calif. Drill-pipe buffer. 2,166,937; July 25.
Bevan, John G., assignor to Guggenheim Brothers, New York, N. Y. Treating sewage. 2,167,443; July 25.
Biddle, William C. (See Corbin, Elbert A., Jr., assignor.)
Billing, Wyly M., assignor to Hercules Powder Company, Wilmington, Del. Stiffened fabric for airplane wings. 2,167,414; July 25.
Birchard, Wayne B., Pittsfield, Mass., assignor to General Electric Company. Electroresponsive circuits. 2,167,473; July 25.
Blackmore, William, Cleveland Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car truck. 2,167,231; July 25.
Blair, Charles M., Jr. (See De Groote, M., Keiser, and Blair.)
Blank, Carl, K. G. (See von Antropoff, A., and Friedrichsen, assignors.)
Boehm, Henry H., Council Bluffs, Iowa. Grease container. 2,167,289; July 25.
Boese, Albert B., Jr., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Preparation of acetoacetic esters of aliphatic alcohols. 2,167,168; July 25.
Boldt, Werner F. (See Freeman, W. R., Dick, and Boldt.)
Bolhuis, Frank, Holland, Mich. House model. 2,167,169; July 25.
Booty, Philip C. P. and R. G., assignors, by mesne assignments, to Reichel & Drews, Inc., Chicago, Ill. Filming machine. 2,167,430; July 25.
Booty, Raymond G. (See Booty, Philip C. P. and R. G.)
Boston Stove Foundry Company. (See Field, B., and Walsh, assignors.)
Boston Wire Stitcher Company. (See Cavanagh, John F., assignor.)
Bothum, Jack E., Laramie, Wyo. Combined brush and scraper. 2,167,196; July 25.
Boudin, Louis, Saint-Gobain, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Apparatus for the manufacture of glassware. 2,167,290; July 25.
Bowie, Robert M., Emporium, Pa., assignor to Hygrade Sylvania Corporation, Salem, Mass. Manufacturing cathode ray tubes. 2,167,431; July 25.
Bowman, Walter E., Norfolk, Va. Trap. 2,167,291; July 25.
Bowzer, Augustus M., Lynn, Mass. Golf-scoring device. 2,167,271; July 25.
Boyd, Fisher L., Haverford, assignor to National Foam System, Inc., Philadelphia, Pa. Fire extinguishing foam apparatus. 2,167,232; July 25.
Boyle, John W. (See McCurdy, W. R., and Boyle.)
Brace, Kemper P., and V. W. Kliesrath, South Bend, Ind., assignors to International Engineering Corporation, Chicago, Ill. Liquid fuel burner. 2,167,444; July 25.
Bracke, Robert F., Chicago, Ill. Carburetor. 2,167,497; July 25.
Brede, Hans. (See Türk, J., and Brede.)
Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Double-acting automatic slack adjuster for brakes. 2,167,562; July 25.
Brown, Charles W. (See Rogers, D. A., and Brown.)
Brown, Cicero C., Houston, Tex. Liner removing device. 2,167,445; July 25.
Brand, Samuel, Clayton, Mo. Painting machine. 2,167,063; July 25.
Brandt, Edgar W., Paris, France, assignor to Sageb, Société Anonyme de Gestion et d'Exploitation de Brevets, Fribourg, Switzerland. Fuse for rotative projectiles. 2,167,197; July 25.
Brenn, Carl W., Montclair, N. J., and C. A. Meisel, Boston, Mass. Printing press. 2,167,022; July 25.
Bridgeport Brass Company. (See Abercrombie, Charles W., assignor.)
Briggs Manufacturing Company. (See Tjaarda, John, assignor.)
Britton, Clyde A. (See Hobson, I. H., and Britton.)
Brower, Rodger L. (See Gutenberg, A. C., and Brower.)
Brownstein, Harry, Warren, assignor of one-half to S. M. London, Girard, Ohio. Display stand. 2,167,198; July 25.
Bruining, Hajo. (See Burgers, W. G., Bruining, and Kleynen.)
Brunswick, Jules, Paris, assignor to M. and R. Baudou, Les Eglisottes, Gironde, France, and himself. Cooling multicellular rubber tires. 2,166,927; July 25.
Bryce, James W., Bloomfield, N. J., assignor to International Business Machines Corporation, New York, N. Y. Multiplying machine. 2,166,928; July 25.
Buenger, Edward F., Oak Park, and E. W. Bacon, assignors to Wilson-Jones Company, Chicago, Ill. Apparatus for attaching paper fasteners. 2,166,983; July 25.
Buffalo Electro-Chemical Company. (See Kauffman, H. O., and McEwen, assignors.)
Bugenhagen, George H., Minot, N. Dak. Electric switch. 2,167,543; July 25.
Bumpus, Jesse A., Pleasant Ridge, and C. S. Christiansen, assignors to Collord, Inc., Detroit, Mich. Bumper clip and installation thereof. 2,167,263; July 25.
Burger, Emmett E. (See Hull, A. W., and Burger.)
Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Hub cap. 2,167,101; July 25.
Burger, Frederick W., Niles, assignor to Clark Equipment Company, Buchanan, Mich. Wheel. 2,167,102; July 25.
Burgers, Wilhelm G., H. Bruining, and P. H. J. A. Kleynen, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electric discharge tube having an oxide cathode. 2,166,984; July 25.
Burns, Herbert A., Forest Hills, N. Y., assignor to International Cigar Machinery Company. Tipped cigar and forming the same. 2,167,170; July 25.
Burr, Henry B. (See Ryan, Thomas, assignor.)
Bustamante, Alberto, and B. R. Enriquez, Mexico, D. F., Mexico. Punch. 2,167,103; July 25.
Butler, Joe K. (See Vietti, W. V., and Butler.)
Butler, William H. (See Turkington, V. H., and Butler.)
Byers, Ralph J., assignor to Chicago Mill and Lumber Company, Chicago, Ill. Box. 2,167,329; July 25.
Cady, Arthur B. (See Jackson, P., and Cady.)
Calvert, Sebastian L., Bristow, Okla. Hold-down valve. 2,167,415; July 25.
Cameron, Allan M., Oak Park, assignor to Cameron Can Machinery Co., Chicago, Ill. Drive mechanism for lock seam soldering attachments. 2,167,330; July 25.
Cameron Can Machinery Co. (See Cameron, Allan M., assignor.)
Carbide and Carbon Chemicals Corporation. (See Boese, Albert B., Jr., assignor.)
Carborundum Company, The. (See Benner, R. C., Woddell, and Nelson, assignors.)
Carlson, Adolph G., Chicago, Ill. Feeder for pulverized materials. 2,167,416; July 25.
Carlson, Walter A., Minneapolis, Minn., assignor to General Mills, Inc. Producing crystalline ergosterol. 2,167,272; July 25.
Carlson, Wendell L., Haddonfield, N. J., assignor to Radio Corporation of America. Intermediate frequency amplifier system. 2,167,605; July 25.
Carnie, Alexander, assignor to Truscon Steel Company, Youngstown, Ohio. Contraction joint. 2,167,199; July 25.
Carrier Corporation. (See Shawhan, S. F., and Ashley, assignors.)
Carroll, Burt H., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion. 2,166,988; July 25.
Carstens, Fritz A. (See Nilson, E. H., and Carstens.)
Carter, William L. C. (See Morton, J., and Carter.)
Caruthers, Robert S., Jackson Heights, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave amplifying system. 2,166,929; July 25.
Carver, Richard N. (See Lohr, R., and Carver.)
Castillón, Guillermo L., Monterrey, Mexico. Revolubie sign structure. 2,167,563; July 25.
Catanzaro, Frank J., Cincinnati, Ohio. Safety guard. 2,167,292; July 25.
Cavadino, Conrad G. F., Rochester, assignor to Gyproc Products Limited, London, England. Producing aerated cementitious compositions and articles. 2,167,606; July 25.
Cavanagh, John F., Providence, assignor to Boston Wire Stitcher Company, Warwick, R. I. Method and means for adjusting the parts of fastener-applying implements. 2,167,331; July 25.
Chain Store Root Beer Co. Inc. (See Holderle, Frederick W. and C. L., assignors.)
Chambers, Dudley E., Scotia, N. Y., assignor to General Electric Company. Electric valve circuit. 2,167,498; July 25.
Chappell, Ralph R., Richmond, Va., and R. B. Colt, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind. Recording paper locking device. 2,167,417; July 25.
Chase Brass & Copper Co. (See Recker, Adolph C., assignor.)
Chase Brass & Copper Co. Incorporated. (See Shoemaker, R. W., and Daniels, assignors.)
Chicago Electric Manufacturing Company. (See Renga, Fernando L., assignor.)
Chicago Mill and Lumber Company. (See Byers, Ralph J., assignor.)
Chicago Mill and Lumber Company. (See Schaack, Frank A., assignor.)

Chinoin Gyogyszer És Vegyészeti Termékek Gyara R. T. (Dr. Kereszty and Dr. Wolf). (See Weisz, Rezső, assignor.)
Christiansen, Andrew L., Willowbrook, Calif. Fish cutting and cleaning machine. 2,166,939; July 25.
Christiansen, Clifford S. (See Bumpus, J. A., and Christiansen.)
Chudner, Joseph, Brooklyn, N. Y. Shock absorber. 2,167,474; July 25.
Clark Equipment Company. (See Burger, Frederick W., assignor.)
Clark Equipment Company. (See Dunham, E. J., and Yeakel, assignors.)
Clark Equipment Company. (See Schirmer, Walter E., assignor.)
Clark Equipment Company. (See Williams, Alfred O., assignor.)
Clarke, Charles M. (See Bergmann, Christian N., assignor.)
Claud-Mantle, Arthur, Trumbull, assignor to The Bassick Company, Bridgeport, Conn. Trailer coupling and support. 2,167,520; July 25.
Clausen, Henry C., et al., executors. (See Strauss, Joseph B.)
Cochran, Harry D., and J. L. Smith, New Castle, Pa. Speed control for combustion engines. 2,167,293; July 25.
Coggans, Joseph, Glasgow, Scotland. Hair curler. 2,167,446; July 25.
Cole Electric Products Co. Inc. (See Cole, L. W., and Smith, assignors.)
Cole, Eugene M., Charlotte, N. C. Side dressing apparatus for planters. 2,167,023; July 25.
Cole, Louis W., New York, and C. I. Smith, Sunnyside, Long Island, assignors to Cole Electric Products Co. Inc., Long Island City, N. Y. Electrical connecting device. 2,167,608; July 25.
Collord, Inc. (See Bumpus, J. A., and Christiansen, assignors.)
Colt, Rutger B. (See Chappell, R. R., and Colt.)
Columbus Auto Parts Company, The. (See Flumerfelt, William A., assignor.)
Conmar Products Corporation. (See Wintritz, G., and Ulrich, assignors.)
Conradson, Conrad M., Detroit, Mich. Hydraulic power system. 2,166,940; July 25.
Cook, Elmer W., New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J. Stabilized mineral oil. 2,167,273; July 25.
Cook, James B. (See Milligan, Herschel L., assignor.)
Cooper-Bessemer Corporation. (See Gehres, Hewitt A., assignor.)
Corbin, Elbert A., Jr., assignor to W. C. Biddle, Lansdowne, Pa. Knock-down furniture frame. 2,166,941; July 25.
Cornell-Dubilier Electric Corporation. (See Gray, Donald E., assignor.)
Corr, John W., East Greenwich, R. I. Mixing tank and the like. 2,167,344; July 25.
Cosgrove, Raymond C., Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus and method. 2,167,447; July 25.
Costigan, Peter J., assignor to Pliantor Inc., Waterbury, Conn. Footwear and making same. 2,167,274; July 25.
Cowing, Jay C., Cleveland, Ohio. Fuse socket. 2,166,985; July 25.
Cox, George E., Niagara Falls, N. Y., and W. G. McBurney, Niagara Falls, Canada, assignors to American Cyanamid Company, New York, N. Y. Granulation of nongranular materials. 2,167,432; July 25.
Cox, Warren M., Jr. (See Barton, R. W., and Cox.)
Crandall, George S., Woodbury, R. C. Moran, Wenonah, and H. G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Diesel fuel and improving same. 2,167,345; July 25.
Creed and Company Limited. (See Griffith, Ronald G., assignor.)
Creed and Company Limited. (See Salmon, Reginald D., assignor.)
Creed and Company. (See Sims, Victor, assignor.)
Crompton & Knowles Jacquard & Supply Company. (See Foster, Herbert V., assignor.)
Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
Crumb, Charles F., and S. E. Hillblom, Chicago, Ill., assignors to International Harvester Company. Tractor mower. 2,166,942; July 25.
Cuno, Charles H., and S. L. Wolfson, assignors to The Cuno Engineering Corporation, Meriden, Conn. Filtering apparatus. 2,167,322; July 25.
Cuno Engineering Corporation, The. (See Cuno, C. H., and Wolfson, assignors.)
Curry, William G., Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y. Racket press. 2,167,560; July 25.
Dahlberg, Amund B. C., Appelviken, Stockholm, Sweden. Manufacturing cement concrete. 2,167,200; July 25.
Dällenbach, Walter, Berlin-Charlottenburg, assignor to Julius Pintsch Kommanditgesellschaft, Berlin, Germany. Electron tube. 2,167,201; July 25.
Dally, Roy, assignor to Webster Electric Company, Racine, Wis. Phonograph. 2,166,986; July 25.
Damon, James, Middletown, N. Y. Baking mold. 2,167,038; July 25.
Daniels, Harold C. (See Shoemaker, R. W., and Daniels.)
Davis & Geck, Inc. (See Rogers, Allen, assignor.)
Davison, Robert L., assignor to John B. Pierce Foundation, New York, N. Y. Roof construction. 2,166,943; July 25.
Dayton Rubber Manufacturing Company, The. (See Freedlander, Abraham L., assignor.)
De Buts, Jean H. L., East Orange, N. J., and J. A. Ritz, assignors to Metal Carbides Corporation, Youngstown, Ohio. Making hard metal articles. 2,167,544; July 25.
De Groote, Melvin, University City, and B. Keiser and C. M. Blair, Jr., Webster Groves, Mo., assignors, by mesne assignments, to Petrolite Corporation, Ltd. Breaking petroleum emulsions. 2,167,346; July 25.
De Groote, Melvin, University City, and B. Keiser and C. M. Blair, Jr., Webster Groves, Mo., assignors, by mesne assignments, to Petrolite Corporation, Ltd. Breaking petroleum emulsions. 2,167,347; July 25.
De Groote, Melvin, University City, and B. Keiser and C. M. Blair, Jr., Webster Groves, Mo., assignors, by mesne assignments, to Petrolite Corporation, Ltd. Breaking petroleum emulsions. 2,167,348; July 25.
De Groote, Melvin, University City, and B. Keiser and C. M. Blair, Jr., Webster Groves, Mo., assignors, by mesne assignments, to Petrolite Corporation, Ltd. Breaking petroleum emulsions. 2,167,349; July 25.
De Meester, Maurice, Detroit, Mich. Thorn-removing device. 2,167,337; July 25.
De Pfyffer, Albert, Los Angeles, Calif. Structural unit. 2,167,370; July 25.
De Spain, Thomas H., assignor to Southern Textile Machinery Company, Paducah, Ky. Sewing mechanism. 2,167,104; July 25.
Despret, Georges P., Paris, France, assignor, by mesne assignments, to The American Securit Company. Process and apparatus for the hardening of glass. 2,167,294; July 25.
Detroit Lubricator Company. (See Duffield, George B., assignor.)
Dick, Burns. (See Freeman, W. R., Dick, and Boldt.)
Dickinson, Robert C., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Disconnecting switch. 2,167,499; July 25.
Dickson Gasket Company. (See Dickson, James G., assignor.)
Dickson, James G., Glencoe, assignor to Dickson Gasket Company, Chicago, Ill. Making gaskets. 2,167,475; July 25.
Diefenbach, Bernhard, Rochester, N. Y. Combined bottle closure and liquid dispenser. 2,167,476; July 25.
Dierker, Arthur H. (See Jones, E. A., and Dierker.)
Dietrich, Melvin A., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant. 2,167,064; July 25.
Dixon, Joseph, Crucible Company. (See Sell, Edwin A., assignor.)
Dodge, Adiel Y., Rockford, Ill. Transmission brake. 2,167,171; July 25.
Dodge, Milton L. (See Smith, John F., assignor.)
Doering, Ulrich W., et al. (See Germer, Edmund, assignor.)
Doherty, Philip W. (See Harmon, E. T., and Doherty.)
Dolle, Willam L., assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio. Machine slideway. 2,167,609; July 25.
Döme, Robert, and P. Jaross, Budapest, Hungary. Driving gear of motor cars. 2,167,295; July 25.
Dorcas, Merrill J., Berea, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Irradiating device. 2,167,233; July 25.
Dornfeld, Reinhold, and K. Haage, Esslingen-on-the-Neckar, Germany. Ditch cutting device. 2,167,500; July 25.
Dracco Corporation. (See Gieseler, George A., assignor.)
Drader, Joseph C., and J. D. Rovick, assignors to Michigan Tool Company, Detroit, Mich. Finishing gears. 2,167,146; July 25.
Drew, Donald E., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic material and making same. 2,167,105; July 25.
Dreyfus, Camille, New York, N. Y. Treatment of fabrics and product thereof. 2,167,234; July 25.
Duffield, George B., assignor to Detroit Lubricator Company, Detroit, Mich. Air vent valve. 2,167,433; July 25.
Duner Co. (See Duner, Sven, assignor.)
Duner, Sven, Wheaton, assignor to Duner Co., Chicago, Ill. Water closet. 2,166,944; July 25.
Dunham, Elmer J., and W. C. Yeakel, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Control valve means. 2,167,106; July 25.
Dunz, Carl E., Wallisellen, Switzerland. Refrigerating apparatus. 2,167,264; July 25.
Du Pont, E. I., de Nemours & Company. (See Dietrich, Melvin A., assignor.)
Du Pont, E. I., de Nemours & Company. (See Drew, Donald E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Evans, David F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Graham, Donald P., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gubelmann, I., and Spiegler, assignors.)

Du Pont, E. I., de Nemours & Company. (See Havas, Emeric, assignor.)
Du Pont, E. I., de Nemours & Company. (See Zwilgmeyer, Frithjof, assignor.)
Duram, Arthur E., assignor to Springfield Boiler Company, Springfield, Ill. Steam generator. 2,167,545; July 25.
Duro-Test Corporation. (See Spielholz, Emanuel, assignor.)
Dvornik, Andrija, Zagreb, Jugoslavia. Device for reproducing cinematographic pictures. 2,167,107; July 25.
Dwight & Lloyd Metallurgical Company. (See Lloyd, Thorne E., assignor.)
Eades, John A. (See Spangler, J. I., Eades, and Purdy.)
Eastman Kodak Company. (See Carroll, Burt H., assignor.)
Easy Washing Machine Corporation. (See Nelson, Jabez C., assignor.)
Eaton, Frank, Manchester, England. Wearing apparel. 2,167,350; July 25.
Eberhart, Felix, Arlington, N. J., assignor to American Can Company, New York, N. Y. Can-coating machine. 2,166,945; July 25.
Eberling, Charles M., Cleveland, Ohio. Wrapping machine. 2,166,946; July 25.
Eckert, William F., Ridley Park, Pa. Transmission casing for internal combustion engine locomotives. 2,167,065; July 25.
Egry Register Company, The. (See Wyrick, Clayton E., assignor.)
Elsleb, Otto, Hofheim in Taunus, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Piperidine compounds and preparing them. 2,167,351; July 25.
Ekbom, Hilmer N., Chicago, Ill., assignor to Link-Belt Company. Traction device. 2,167,039; July 25.
Electric Service Supplies Company. (See Graham, H. J., and Mageoch, assignors.)
Electric Service Supplies Company. (See Shaback, Andrew J., assignor.)
Elin A. G. für elektrische Industrie. (See Erber, Günter, assignor.)
Elliott, Daniel W., Long Beach, assignor, by mesne assignments, to Lane-Wells Company, Los Angeles, Calif. Locating water strata in oil wells. 2,167,066; July 25.
Ellis, Kimpton. (See Wood, Leonora, assignor.)
Emery, Albert H., Stamford, Conn., assignor to Baldwin-Southwark Corporation. Rate of load control apparatus for materials testing. 2,167,332; July 25.
Engstrom, Birger, assignor, by mesne assignments, of sixty one-hundredths to The National Supply Company, Pittsburgh, Pa. Pipe-thread protector. 2,167,235; July 25.
Enriquez, Benjamin R. (See Bustamante, A., and Enriquez.)
Eppler, Eugen. (See Lasch, A., and Eppler.)
Erber, Günter, Weiz, Steiermark, assignor to Elin A. G. für elektrische Industrie, Vienna, Austria. Connecting the electrodes in automatic electric arc welding. 2,167,565; July 25.
Estep, Russel, assignor of one-half to L. Layous, Kings City, Calif. Flow meter. 2,167,172; July 25.
Evans, David F., Buffalo, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Skein lacing. 2,167,546; July 25.
Everlasting Valve Company. (See Wilson, Wylie G., assignor.)
F. N. F. Limited. (See Morton, J., and Carter, assignors.)
Fairbanks, Morse and Company. (See Hadley, Harlan A., assignor.)
Falck, Fritz W., Los Angeles, Calif. Table marble game. 2,167,352; July 25.
Farmer, Gordon C., Richlands, Va. Automatic blackboard eraser. 2,167,296; July 25.
Farner, Lewis S., H. L. Beals, and A. A. Haladik, New Kensington, Pa. Bottle breaker. 2,167,040; July 25.
Farnham, Paul O., Booton, N. J., assignor to Radio Corporation of America. Degenerative plate circuit detector network. 2,167,024; July 25.
Farrington, John F., Flushing, N. Y., assignor to Hazeltine Corporation. Variable selectivity radio receiver. 2,167,400; July 25.
Fayerweather, Neuman H., assignor to Frober Faybor Company, Cleveland, Ohio. Sector disk operating mechanism. 2,166,947; July 25.
Feld, Mayer, Valley Stream, N. Y. Liquid dispensing container. 2,167,448; July 25.
Ferenci, Lester, Brooklyn, N. Y., assignor to American Machine & Foundry Company. Bread slicer. 2,167,108; July 25.
Ferree, Clifford. (See Gorman, R. S., and Graham, assignors.)
Field, Bernard, Brookline, and M. F. Walsh, Wakefield, assignors to Boston Stove Foundry Company, Reading, Mass. Stove. 2,167,617; July 25.
Finch, Raymond C., assignor to Art Metal Construction Company, Jamestown, N. Y. Paper file. 2,167,578; July 25.
Findlater, Stevenson, McKeesport, Pa., assignor to National Tube Company. Pipe or tube rolling. 2,167,418; July 25.
Fitch, Benjamin F., Greenwich, Conn., assignor to Motor Terminals, Inc., Cleveland, Ohio. Mechanism for holding demountable bodies on vehicles. 2,166,948; July 25.
Fitts, George M., Washington, D. C. Brake. 2,167,297; July 25.
Fitzgerald Manufacturing Company. (See Fitzgerald, Patrick J., assignor.)
Fitzgerald, Patrick J., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn. Electric fan. 2,166,987; July 25.
Fleming, Harvey, San Diego, Calif. Shotgun barrel. 2,167,173; July 25.
Flett, Lawrence H., Hamburg, assignor to National Aniline and Chemical Company, Incorporated, New York, N. Y. Sulphonated arylides. 2,166,949; July 25.
Flumerfelt, William A., assignor to The Columbus Auto Parts Company, Columbus, Ohio. Joint. 2,167,174; July 25.
Folmer Graflex Corporation, The. (See Hineline, Edson S., assignor.)
Fonda, Alfred S., Elmira, N. Y. Portable traffic signal. 2,167,564; July 25.
Fosdick, Robert E., Dayton, Ohio. Compound reading lens. 2,166,988; July 25.
Foss, Benjamin S., Brookline, assignor to B. F. Sturtevant Company, Boston, Mass. Heat exchanger. 2,167,333; July 25.
Foster, Benjamin N., and E. J. Kingsbury, assignors to Kingsbury Machine Tool Corporation, Keene, N. H. Machine tool with feeding mechanism. 2,167,401; July 25.
Foster, Herbert V., Providence, assignor to Crompton & Knowles Jacquard & Supply Company, Pawtucket, R. I. Jacquard hammer. 2,167,041; July 25.
Fox, Martin, assignor to The Seng Company, Chicago, Ill. Studio couch. 2,167,175; July 25.
Fraim, Freeman W. (See Little, R., and Fraim.)
Frantz, Walter A., Cleveland Heights, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio. Compartmental washing machine. 2,167,147; July 25.
Frediani, Nello, Lake Geneva, Wis. Confection. 2,167,353; July 25.
Freedlander, Abraham L., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Belt. 2,167,384; July 25.
Freeman, Walter R., University City, B. Dick, Ferguson, and W. F. Boldt, Overland, assignors to Wagner Electric Corporation, St. Louis, Mo. Clutch and brake control mechanism. 2,167,501; July 25.
Frentzel, Herman C., Jr., Shorewood, and C. G. Novotny, assignors to The Heil Co., Milwaukee, Wis. Refuse collecting vehicle. 2,167,148; July 25.
Frew, Russell R., Mercer Island, assignor, by mesne assignments, to Golden Glint Company, Inc., Seattle, Wash. Hair rinsing preparation. 2,167,502; July 25.
Friedman, Harry, Twin Falls, Idaho. Sampler for bagged materials. 2,167,566; July 25.
Friedrichsen, Johannes. (See von Antropoff, A., and Friedrichsen.)
Frober Faybor Company. (See Fayerweather, Neuman H., assignor.)
Fuel Development Corporation. (See Kimball, Leo B., assignor.)
Ganser, Montgomery L., Norristown, Pa. Pressure testing device. 2,167,449; July 25.
Gardella, Albert B., Cleveland, assignor of one-half to G. C. Guckes, Lakewood, Ohio. Flagstaff structure. 2,167,579; July 25.
Gardiner, Arthur N., Stratford, N. J. Apparatus for producing musical sounds. 2,167,600; July 25.
Gavin, Gordon P., Kohler, Wis. Flush tank and closet bowl connection. 2,167,354; July 25.
Gay, Frazer W., Metuchen, N. J. Electric generator rotor. 2,167,355; July 25.
Gaylor, Peter J. (See Wiezevich, P. J., and Rosen.)
Gaylord Container Corporation. (See George, Walter C., assignor.)
Geffcken, Heinrich. (See Honnef, H., and Geffcken.)
Gehres, Hewitt A., assignor to Cooper-Bessemer Corporation, Mount Vernon, Ohio. Internal combustion engine. 2,166,930; July 25.
Geir, Joseph H., Milwaukee, Wis. Revolving spray booth and drier. 2,167,567; July 25.
Geiser, Malvina, St. Louis, Mo. Mechanical walking soldier with shooting gun. 2,167,042; July 25.
General Electric Company. (See Auerbach, Rudolf, assignor.)
General Electric Company. (See Bedford, Burnice D., assignor.)
General Electric Company. (See Berry, Theodore M., assignor.)
General Electric Company. (See Birchard, Wayne E., assignor.)
General Electric Company. (See Chambers, Dudley E., assignor.)
General Electric Company. (See Hanna, Max R., assignor.)
General Electric Company. (See Hastings, H. C., and Usher, assignors.)
General Electric Company. (See Hobart, Henry M., assignor.)
General Electric Company. (See Hull, A. W., and Burger, assignors.)
General Electric Company. (See Johnston, Arthur J., assignor.)
General Electric Company. (See Kelley, Floyd C., assignor.)
General Electric Company. (See Miles, Lawrence D., assignor.)

General Electric Company. (See Moss, Sanford A., assignor.)
General Electric Company. (See Schneider, Elbert D., assignor.)
General Electric Company. (See Suits, Chauncey G., assignor.)
General Electric Company. (See Sykes, C., and Needham, assignors.)
General Electric Company. (See Tobis, Carlos, assignor.)
General Electric Company. (See Türk, J., and Brede, assignors.)
General Electric Company. (See Vienneau, Jacob J., assignor.)
General Electric Company. (See Young, William R., assignor.)
General Electric X-ray Corporation. (See Gross, M. J., and Atlee, assignors.)
General Mills, Inc. (See Carlson, Walter A., assignor.)
General Motors Corporation. (See Heath, Delos P., assignor.)
General Motors Corporation. (See Smith, Harry F., assignor.)
General Steel Castings Corporation. (See Pflager, Harry M., assignor.)
George, Walter C., assignor to Gaylord Container Corporation, St. Louis, Mo. Tape smoothing machine. 2,167,356; July 25.
George, Walter C., assignor to Gaylord Container Corporation, St. Louis, Mo. Taping machine. 2,167,357; July 25.
German, Frank O., and E. W. Hartley, Waterbury, Conn. Game appliance and making. 2,166,950; July 25.
Germer, Edmund, assignor of eighty-seven per cent to U. W. Doering and H. J. Spanner, Berlin, Germany. Discharge device. 2,166,951; July 25.
Gieseler, George A., assignor to Dracco Corporation, Cleveland, Ohio. Filtering apparatus. 2,167,236; July 25.
Gill Glass & Fixture Company. (See Regester, Ramsay G., assignor.)
Gilles, Franz F. R. A., Uccle-Brussels, assignor to "Société Générale de Fours à Coke, Systemes Lecocq" Société Anonyme, Brussels, Belgium. Oven for heat treatment of shales, schists, sandstones, and the like. 2,167,503; July 25.
Ginsburg, Michael I., Philadelphia, Pa. Power transmitting unit. 2,167,450; July 25.
Giró, Francisco, Buenos Aires, Argentina. Two-stroke engine. 2,167,402; July 25.
Gleason, Anthony H., Elizabeth, N. J., assignor to Standard Oil Development Company. Recovering condensing agents. 2,167,358; July 25.
Gleason, William W., assignor to Nachman Spring-filled Corporation, Chicago, Ill. Spring anchoring device. 2,166,989; July 25.
Globe Iron Company. (See Jones, E. A., and Dierker, assignors.)
Globe Slicing Machine Company. (See Waage, John J., assignor.)
Glunz, Fritz, Hanover, Germany. Printing and duplicating machine. 2,167,477; July 25.
Goetz, Lawrence R. (See Nulsen, M. E., and Goetz.)
Goldberg, Herman, Chicago, Ill. Nut tapping machine. 2,166,952; July 25.
Goldberg, Max W., assignor to Modern Equipment Company, Port Washington, Wis. Automatic oiler. 2,167,451; July 25.
Golden Glint Company. (See Frew, Russell R., assignor.)
Goldin, Shepard J., Brooklyn, N. Y. Illuminated watch clip and mirror. 2,167,109; July 25.
Goldsmith, Alfred N. (See Van Dyck, A. F., and Goldsmith.)
Good, Frederick C., Philadelphia, Pa. Carrier operating mechanism for flat knitting machines. 2,167,478; July 25.
Gopperton, Ardath A. (See Sherman, J. Q., Metzner, and Gopperton.)
Gorman, Raymond S., Dormont, and R. E. Graham, Crafton, assignors to C. B. Ferree, Pittsburgh, Pa. Cooling of cylindrical bodies. 2,167,504; July 25.
Gould, Stephen P., and E. O. Whittier, Washington, D. C.; dedicated to the free use of the people in the Territory of the United States. Fiber. 2,167,202; July 25.
Gove, Edward L., Cleveland, Ohio. Variable attenuator. 2,167,237; July 25.
Govoni, Enrico, West Hartford, Conn. Musical instruments. 2,167,359; July 25.
Graham, Donald P., South Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vat dyestuff of the anthraquinone series and producing the same. 2,167,434; July 25.
Graham, Herbert J., and H. Y. Mageoch, assignors to Electric Service Supplies Company, Philadelphia, Pa. Vehicle signal arm. 2,167,239; July 25.
Graham, Ralph E. (See Gorman, R. S., and Graham.)
Grassberger, Karl P., West Allis, Wis. Wall fastening. 2,167,176; July 25.
Graves, Edward H. and W. B., Arlington, Tex. Door mounting. 2,167,569; July 25.
Graves, Walter B. (See Graves, Edward H. and W. B.)
Gray, Donald E., Yonkers, N. Y., assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation. Electrolytic condenser and producing same. 2,166,990; July 25.
Green, Isaac H. C. (See Lawson, R. H., and Green.)
Greenawalt, Elmer J. (See Kinne, E. P., and Greenawalt.)
Griffith, Ronald G., Upper Warlingham, assignor to Creed and Company Limited, Croydon, Surrey, England. Translating mechanism. 2,167,505; July 25.
Griffin Wheel Company. (See Vial, Frederick K., assignor.)
Griunsteinas, Nathanas, also known as Nathan Grunstein, Haifa, Palestine. Manufacture of very pure aluminum compounds. 2,167,238; July 25.
Gross, Malvern J., and Z. J. Atlee, Chicago, Ill., assignors to General Electric X-Ray Corporation. High voltage X-ray tube. 2,167,275; July 25.
Grote, Walter F., Mount Washington, Ohio, assignor to The National Colortype Company, Bellevue, Ky. Total reflecting prism sheet. 2,167,149; July 25.
Gruen Watch Mfg. Co. (A.-G.). (See Theibaud, Henri, assignor.)
Grunstein, Nathan. (See Griunsteinas, Nathanas.)
Guanella, Gustave, Zurich, Switzerland, assignor to Radio Patents Corporation. Direction finding system. 2,166,991; July 25.
Guardian Life Insurance Company of America, The. (See Weidenborner, Frank F., assignor.)
Gubelmann, Ivan, Wilmington, Del., and L. Spiegler, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Chemical process. 2,167,067; July 25.
Guckes, George C. (See Gardella, Albert B., assignor.)
Guérard, Georges, assignor to Societe Anonyme dite Etablissements Laffly, Asnieres, France. Spring suspension for motor vehicles and the like. 2,167,403; July 25.
Guerrieri, Salvatore A., Mount Vernon, assignor to The Lummus Company, New York, N. Y. Fractionating column. 2,167,025; July 25.
Gueydan, Arthur, Lausanne, Vaud, Switzerland. Toy apparatus. 2,167,068; July 25.
Guggenheim Brothers. (See Bevan, John G., assignor.)
Hayes, James H., New York, N. Y. Artificial lure. 2,167,335; July 25.
Guhring, Alfred. (See Nädelin, Eugen, assignor.)
Guinot, Henri M. E., Niort, assignor to Usines de Melle, Melle, Deux-Sevres, France. Manufacture of ketones and alcohols from olefins. 2,167,203; July 25.
Gutenberg, Andrew C., and R. L. Brower, Milwaukee, Wis. Automobile throttle control. 2,167,110; July 25.
Gutzeit, Carlos L. (See Talley, S. K., and Gutzeit.)
Gyproc Products Limited. (See Cavadino, C. G. F., assignor.)
Haage, Konrad. (See Dornfeld, R., and Haage.)
Haase, Theodor, Hermsdorf, Thuringia, assignor to C. Lorenz, Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany. Piezoelectric apparatus. 2,167,506; July 25.
Haberfeld, Erwin O., Berlin-Weissensee, Germany. Keyboard for typewriting machines and other commercial machines. 2,167,150; July 25.
Hadley, Harlan A., St. Johnsbury, Vt., assignor to Fairbanks, Morse and Company, Chicago, Ill. Automatic beam stop. 2,167,204; July 25.
Haladik, Adam A. (See Farner, L. S., Beals, and Haladik.)
Halligan, Clair W., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission system. 2,167,069; July 25.
Hamill, William W., Chigwell, England. Shock-absorbing steering wheel for automobiles. 2,166,931; July 25.
Hamilton, Kenneth C., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis. Sputum cup. 2,167,111; July 25.
Hancock Manufacturing Company. (See Marple, Rollo, assignor.)
Haneschka, Hans, Vienna, Austria. Recovering fats, oils, and proteins from animal and vegetable starting materials, and more particularly from waste products. 2,167,043; July 25.
Hanford, John M. (See Willard, Louis E., assignor.)
Hanna, Max R., Erie, Pa., assignor to General Electric Company. Dynamo-electric machine. 2,167,360; July 25.
Hanna, Max R., Erie, Pa., assignor to General Electric Company. Commutator. 2,167,479; July 25.
Hansell, Clarence W., Rocky Point, N. Y., assignor to Radio Corporation of America. Signaling. 2,167,480; July 25.
Hansen, Mahlin S., Indianapolis, Ind. Flat type duplicator. 2,166,992; July 25.
Hanset, Eugene D., Portland, Oreg. Machine for attaching handle hangers. 2,167,452; July 25.
Hardy, John W., Pacific Beach, Calif. Photograph printing frame. 2,167,298; July 25.
Harfst, Walter, Grand Island, Nebr. Electrical tire gauge. 2,167,568; July 25.
Harman, Marion W., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanization accelerator. 2,167,385; July 25.
Harmon, Ernest T., Lewiston, and P. W. Doherty, Portland, Maine. Power transmission apparatus. 2,167,276; July 25.
Harnly, David H., deceased, Chicago, Ill.; W. R. Matheny, administrator. Weatherproofing structure for doors. 2,166,993; July 25.

Harrison, Charles F. R., Selley Oak, Birmingham, and A. E. Wallis, Clydach, England, assignors to The International Nickel Company, Inc., New York, N. Y. Preparation of nickel carbonyl. 2,167,112; July 25.
Hartley, Earl W. (See German, F. O., and Hartley.)
Hartmann, Otto H., and R. Loewenstein, assignors to the firm Schmidt'sche Heissdampf, Gesellschaft m. b. H., Kassel-Wilhelmshohe, Germany. Method and apparatus for preventing excess pressure increase in steam generators with low water content. 2,167,299; July 25.
Haskins, Butler J., Chicago, and H. W. Mitchell, Waukegan, Ill., assignors to The Potter Company. Producing a sweep wave optical picture with a cathode ray tube. 2,167,177; July 25.
Hastings, Hammond C., and F. F. Usher, Rugby, England, assignors to General Electric Company. Electric motor control system. 2,167,481; July 25.
Hatch, Ronald K., Highland Park, Mich., assignor to Gar Wood Industries, Inc. Power swing crane. 2,167,026; July 25.
Haucke, Oswin, Brooklyn, N. Y. Wheel and chassis alignment indicator. 2,167,361; July 25.
Haurand, Carl H., North Plainfield, R. H. Neal, Bayonne, N. J., and H. W. Vahlteich, assignors to The Best Foods, Inc., New York, N. Y. Vegetable oil product. 2,167,113; July 25.
Havas, Emeric, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparing leuco quinizarine. 2,167,070; July 25.
Hayes, James H., New York, N. Y. Artificial bait. 2,167,334; July 25.
Hazard, Charles S., New York, N. Y., assignor to Neptune Meter Company. Automatic signal for dispensing pumps. 2,167,151; July 25.
Hazeltine Corporation. (See Farrington, John F., assignor.)
Hazeltine Corporation. (See Loughren, Arthur V., assignor.)
Hazeltine Corporation. (See Wheeler, Harold A., assignor.)
Heanes, Herbert, Santa Ana, Calif. Electric meter box. 2,167,419; July 25.
Heath, Delos P., Detroit, Mich., assignor, by mesne assignments, to General Motors Corporation. Sheet-metal evaporator. 2,166,953; July 25.
Heckel, Hermann, Chicago, Ill., assignor to Marbon Corporation. Making sheet material. 2,167,570; July 25.
Hegan, Chester P., assignor to American Air Filter Company, Inc., Louisville, Ky. Filtering medium for air filters. 2,167,323; July 25.
Heid, Jacob B., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,167,507; July 25.
Heil Co., The. (See Frentzel, H. C., Jr., and Novotny, assignors.)
Heimke, Paul. (See Steindorff, A., Balle, Heimke, and Horst.)
Hellige, F., & Co. (See Assmus, Friedrich, assignor.)
Hellmann, Jay T., Miami, Fla. Telephone cord take-up. 2,167,571; July 25.
Helmert, Robert, Berlin-Lichterfelde, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Telegraph system. 2,167,509; July 25.
Helsten, Wesley, assignor to American Steel Foundries, Chicago, Ill. Slack adjuster. 2,167,610; July 25.
Hemphill Company. (See Lawson, R. H., and Green, assignors.)
Henderson, Albert E., Albany, Ga., assignor, by mesne assignments, to Henderson, Inc. Peanut harvester. 2,167,044; July 25.
Henderson, Inc. (See Henderson, Albert E., assignor.)
Hendrickson, Ralph E., Fullerton, assignor to Lane-Wells Company, Los Angeles, Calif. Well surveying instrument. 2,167,071; July 25.
Hendrickson, Ralph E., Fullerton, assignor to Lane-Wells Company, Los Angeles, Calif. Well surveying device. 2,167,072; July 25.
Henschler, Ewald, Blue Island, Ill. Lavatory device. 2,167,152; July 25.
Hensel, Franz R., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind. Magnet material. 2,167,240; July 25.
Hercules Powder Company. (See Billing, Wyly M., assignor.)
Hercules Powder Company. (See Humphrey, Irvin W., assignor.)
Herold, Walter F., assignor to The Bassick Company, Bridgeport, Conn. Tilting mechanism, especially for chairs. 2,167,508; July 25.
Herstein, Karl M., Brooklyn, assignor, by mesne assignments, to Skol Company, Inc., New York, N. Y. Alkylene oxide-tannic acid reaction product. 2,167,073; July 25.
Heyer, Frederic K., assignor to The Yale & Towne Manufacturing Co., Stamford, Conn. Combination lock. 2,167,205; July 25.
Hilblom, Samuel E. (See Crumb, C. F., and Hilblom.)
Hilblom, Samuel E. (See Raney, C. R., MacDonald, and Hilblom.)
Hilker, Roy E., Los Angeles, Calif. Game device. 2,167,074; July 25.
Hillman, Albert G., Amersham, England. Optical system for color photography or cinematography. 2,167,453; July 25.
Hillman, Albert G., Amersham, England. Optical system for color photography or cinematography. 2,167,454; July 25.
Hilpert, Meier. G., Bethlehem, Pa. Floor or roof construction. 2,167,208; July 25.
Hindahl, David, assignor to Rodger Ballast Car Company, Chicago, Ill. Car construction. 2,167,362; July 25.
Hineline, Edson S., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Range and view finder and camera mechanism functionally equipped therewith. 2,167,435; July 25.
Hineline, Edson S., assignor to The Folmer Graflex Corporation, Rochester, N. Y. Camera mechanism having correlated range and view finder. 2,167,436; July 25.
Hirsch, Abraham, Brooklyn, N. Y. Electrician's drill. 2,167,153; July 25.
Hirschmann, Winfred B., Chicago, Ill., assignor, by mesne assignments, to American Colloid Co., Lead, S. Dak. Method and means for increasing the strength of bentonitic clay gels. 2,167,455; July 25.
Hobart, Henry M., Niskayuna, N. Y., assignor to General Electric Company. High tension gas insulated cable. 2,167,510; July 25.
Hobson, Ivan H., Oakland, and C. A. Britton, Alameda, Calif. Compounding system and suspension for weighing and testing machines. 2,167,075; July 25.
Hodgins, Theodore S., Royal Oak, assignor to Reichhold Chemicals, Inc., formerly Beck, Koller & Company, Inc., Detroit, Mich. Improving drying properties of oils. 2,167,206; July 25.
Hoenigsberger, Harry L., Chicago, Ill. Sample carrier. 2,167,363; July 25.
Hogle, Stanley L., assignor to Aurora Equipment Company, Aurora, Ill. License plate holder. 2,166,994; July 25.
Hohl, John, and C. P. Whittier, Toledo, Ohio, assignors to Owens-Illinois Glass Company. Dispensing container. 2,167,437; July 25.
Holderle, Frederick W. and C. L., assignors to Chain Store Root Beer Co., Inc., Rochester, N. Y. Beverage dispensing apparatus. 2,167,547; July 25.
Holderle, Carl L. (See Holderle, Frederick W. and C. L.)
Holmes, Deborah P. (See Smith, Earle R., assignor.)
Honnef, Hermann, Berlin, and H. Gefficken, Berlin-Charlottenburg, Germany. Power generator. 2,167,265; July 25.
Hooper, Frederick E., Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Stacking mechanism. 2,167,045; July 25.
Hooper, William J., Elsah, Ill. Pressure signal. 2,167,456; July 25.
Hornung, Heinrich, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. High-frequency transmitter. 2,167,511; July 25.
Horst, Karl. (See Steindorff, A., Balle, Heimke, and Horst.)
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield wiper. 2,167,207; July 25.
Hotstream Heater Company, The. (See Morrow, Clarence H., assignor.)
Houston, William B., Alhambra, Calif. Waterproofing solution for cement and stucco. 2,167,300; July 25.
Howe, Nettie M., Austin, Minn. Shampoo apparatus. 2,167,572; July 25.
Hudson, Edwin B., assignor to The American Rolling Mill Company, Middletown, Ohio. Elongation gauge and method. 2,167,548; July 25.
Hudson, Edwin B., assignor to The American Rolling Mill Company, Middletown, Ohio. Tension apparatus for reversible mills. 2,167,549; July 25.
Huff, George A. (See Lyon, Harry, assignor.)
Huffman, Samuel A., Ben Avon, assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Type bed gib. 2,167,154; July 25.
Hughes, Henry, & Son, Limited. (See Sproule, Donald O., assignor.)
Hull, Albert W., and E. E. Burger, Schenectady, N. Y., assignors to General Electric Company. Glass-to-metal Seal. 2,167,482; July 25.
Hull, Walter E., Warren, Ohio. Bracket. 2,167,046; July 25.
Humphrey, Irvin W., assignor to Hercules Powder Company, Wilmington, Del. Hydrogenated reaction product of a rosin ester and maleic anhydride and its production. 2,167,420; July 25.
Huskey, Lloyd E., Waterbury, Md. Electric board testing apparatus. 2,167,209; July 25.
Huttner, Karl. (See Schmidt, W., and Huttner.)
Hygrade Sylvania Corporation. (See Bowie, Robert M., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Pier, M., Michael, and Jaeckh, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schmidt, W., and Huttner, assignors.)
I. G. Farbeindustrie Aktiengesellschaft. (See Steindorff, A., Balle, Heimke, and Horst, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Wick, Georg, assignor.)
Imperial Chemical Industries, Limited. (See Jones, M., Smith, and Stewart, assignors.)
Imsick, Frank J., Ewing, Nebr. Lister plow. 2,167,210; July 25.

International Business Machines Corporation. (See Bryce, James W., assignor.)
International Cigar Machinery Company. (See Burns, Herbert A., assignor.)
International Engineering Corporation. (See Brace, K. P., and Kliesrath, assignors.)
International Harvester Company. (See Crumb, C. F., and Hilblom, assignors.)
International Harvester Company. (See Raney, C. R., MacDonald, and Hilblom, assignors.)
International Nickel Company, The. (See Harrison, C. F. R., and Wallis, assignors.)
International Nickel Company, The. (See Skelton, Edward W., assignor.)
International Standard Electric Corporation. (See Scaife, Frederick N., assignor.)
International Standard Electric Corporation. (See Strong, C. E., and McLean, assignors.)
Interstate Metal Products Co. (See Skobel, Louis W., assignor.)
Intertype Corporation. (See Willis, Le Roy W., assignor.)
Irwin, Chester M., et al. (See Van Eweyk, William F., assignor.)
Jackson, Paul, and A. B. Cady, assignors to Read Machinery Company, Incorporated, York, Pa. Door for bake ovens. 2,167,047; July 25.
Jacobs, Hans, Berlin-Mariendorf, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electrical oscillatory circuits. 2,167,512; July 25.
Jaeckh, Wolfgang. (See Pier, M., Michael, and Jaeckh.)
Janalene, Inc. (See Present, Mortimer T., assignor.)
Jann, Kurt, Berlin-Charlottenburg, and H. Roland, Berlin-Steglitz, assignors to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Automatic control device for vehicles. 2,167,421; July 25.
Jaross, Paul. (See Dôme, R., and Jaross.)
Jenkins, Edward M., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Joint-closing member and making the same. 2,167,550; July 25.
Jenkins Petroleum Process Company. (See Jenkins, Ulysses S., assignor.)
Jenkins, Ulysses S., St. Louis, Mo., assignor, by mesne assignments to Jenkins Petroleum Process Company, Chicago, Ill. Distilling. 2,167,211; July 25.
Joa, Curt G., Sheboygan Falls, assignor to Curt G. Joa, Inc., Manitowoc, Wis. Propulsion mechanism for conveyers. 2,167,179; July 25.
Joa, Curt G., Inc. (See Joa, Curt G., assignor.)
Johns-Manville Corporation. (See Jenkins, Edward M., assignor.)
Johnson, Albert A., Kew Gardens, N. Y. Railway hopper car. 2,167,364; July 25.
Johnson, Edward J., Chicago, Ill. Cast cutter. 2,167,212; July 25.
Johnston, Arthur J., San Mateo, Calif., assignor to General Electric Company. Automatic totalizing system. 2,167,513; July 25.
Jones, Charles, assignor to Pearson Sanding Machine Company, High Point, N. C. Sanding wheel head. 2,167,573; July 25.
Jones, Edwin A., Jackson, and A. H. Dierker, Columbus, assignors to Globe Iron Company, Jackson, Ohio. Alloy cast iron. 2,167,301; July 25.
Jones, Jesse L., assignor to McCormick & Company, Inc., Baltimore, Md. Top for spice tins. 2,167,574; July 25.
Jones, Maldwyn, and W. F. Smith, Blackley, Manchester, England, and A. Stewart, Grangemouth, Scotland, assignors to Imperial Industries, Limited. Coloring rubber. 2,167,514; July 25.
Jones, Paul S., assignor to Jones & Vining Inc., Brockton, Mass. Shoe last and protector therefor. 2,167,611; July 25.
Jones & Vining, Inc. (See Jones, Paul S., assignor.)
Jones, Weston E., et al. (See Mohler, James V., assignor.)
Joslyn, Stuart S., assignor to H. C. Bates, Chester, Conn. Manicure or sewing kit or the like. 2,167,213; July 25.
Junghans, Helmut, Schramberg-Sulgen, Germany. Barrel safety means for fuses. 2,167,302; July 25.
Kadenacy, Michel, Paris, France. Exhaust device for internal combustion engines. 2,167,303; July 25.
Kaiser, Irvin B., Lyons, N. Y. Automobile tire. 2,167,277; July 25.
Kalio, Inc. (See Lieberknecht, Karl R., assignor.)
Katsch, Annemarie, Berlin-Lichterfelde, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany. Electronic discharge tube. 2,167,515; July 25.
Katz, Sam, Brooklyn, N. Y. Dispensing device for hairpins and the like. 2,167,241; July 25.
Kauffmann, Hans O., and R. L. McEwen, assignors to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y. Bleaching of wood. 2,166,954; July 25.
Kaufman, Gus, Beacon, assignor to The Texas Company, New York, N. Y. Apparatus for manufacture of wax polishing compositions. 2,167,438; July 25.
Kaufman, Gus, Beacon, assignor to The Texas Company, New York, N. Y. Sulphur cutting oil. 2,167,439; July 25.
Kaufman, Gus, Beacon, assignor to The Texas Company, New York, N. Y. Lubricant. 2,167,612; July 25.
Kay, Byron M., Tulsa, Okla. Signaling apparatus. 2,167,076; July 25.
Kelnath, Georg, Berlin-Charlottenburg, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt near Berlin, Germany. Method and system for testing high voltage insulation. 2,166,932; July 25.
Kelser, Bernhard. (See De Groote, M., Keiser, and Blair.)
Kelley, Floyd C., Schenectady, N. Y., assignor to General Electric Company. Sintered hard metal composition. 2,167,516; July 25.
Kelly, Thomas D., Croydon, England. Electric furnace. 2,167,575; July 25.
Kieffer, Jean, Norwich, Conn. X-ray device. 2,167,114; July 25.
Kieffer, Jean, Norwich, Conn. Radiation method and apparatus. 2,167,115; July 25.
Kieffer, Jean, Norwich, Conn. Spherical movement radiation method and apparatus. 2,167,116; July 25.
Kimball, Leo B., New Haven, Conn., assignor to Fuel Development Corporation. Valve for automatic control of supplementary liquids. 2,167,266; July 25.
Kingsbury, Edward J. (See Foster, B. N., and Kingsbury.)
Kingsbury Machine Tool Corporation. (See Foster, B. N., and Kingsbury, assignors.)
Kinnard, Frank M., Sebring, Ohio. Clay working machine. 2,167,386; July 25.
Kinne, Edmund P., and E. J. Greenawalt, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill. Coupler structure. 2,167,613; July 25.
Kirkpatrick, Arnold, Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Vinyl-type resins. 2,166,955; July 25.
Kiser, Fred M., Los Angeles, Calif. Solar heater. 2,167,576; July 25.
Kiss, Joseph. (See Sabo, L., and Kiss.)
Kleaver, Estelle B. (See Bettis, William I., assignor.)
Klemm, Herman G., assignor to The Glenn L. Martin Company, Baltimore, Md. Mounting. 2,167,577; July 25.
Kleynen, Petrus H. J. A. (See Burgers, W. G., Bruining, and Kleynen.)
Kliesrath, Victor W. (See Brace, K. P., and Kliesrath.)
Kloz, Gerhard, Leipzig, Germany. Supervision of the uniformity of galvanic baths. 2,167,304; July 25.
Knettle, Le Roy J., Gloucester, N. J. Bolt rethreader. 2,166,957; July 25.
Koch, Winfield R., Merchantville, N. J., assignor to Radio Corporation of America. Noise reduction system. 2,166,995; July 25.
Koehring Company. (See Lichtenberg, E. H., and Sheck, assignors.)
Kohlstadt, Marie M., Spokane, Wash. Cushion support. 2,167,178; July 25.
Kolisman, Paul, New York, N. Y. Shock absorber. 2,166,956; July 25.
Kols, Jacob A., Columbus, Ohio. Hair curling device and process thereof. 2,167,387; July 25.
Kopp, Walter R., New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company. Switch for hand lamps. 2,167,117; July 25.
Koppers Company. (See Benézech, Louis P. J. M., assignor.)
Körber, Kurt A., Dresden-Oberloschwitz, assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co., Dresden, Germany. Weight recording and registering apparatus. 2,167,517; July 25.
Kosek, Ernest, et al. (See Vondracek, Frank J., assignor.)
Köster, Paul E., Berlin-Siemensstadt, Germany, assignor to Siemens Apparate und Maschinen G. m. b. H. Control apparatus for airplanes. 2,167,077; July 25.
Kraemer, Charles F., High Bridge, N. J. Supporting stand. 2,167,483; July 25.
Kremmling, Otto, Hammersleben, Germany. Biscuit molding machine. 2,167,388; July 25.
Kritchevsky, Wolf, assignor to Rit Products Corporation, Chicago, Ill. Brushless shaving cream. 2,167,180; July 25.
Kropp, Henry A., Reading, Pa. Label. 2,167,305; July 25.
Kubias, Fred, et al. (See Vondracek, Frank J., assignor.)
Kuhn, Frank, Detroit, and L. H. Thomas, Birmingham, assignors to American Electrical Heater Company, Detroit, Mich. Soldering iron. 2,167,389; July 25.
Kundert, Herman, Lima, Ohio. Closure for coal cars. 2,167,306; July 25.
Laddaga, Joseph, assignor of one-third to W. L. Morris, New York, N. Y. Fare protective shift gear lock for taxicabs. 2,167,260; July 25.
La Franca, Salvatore, New York, N. Y. Smoking pipe. 2,167,242; July 25.
Lakatos, Emory, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromechanical system. 2,167,078; July 25.
Lamson & Sessions Company, The. (See Upson, Ralph H., assignor.)
Landon, Vernon D., Haddonfield, N. J., assignor to Radio Corporation of America. Band pass filter. 2,167,079; July 25.
Lane-Wells Company. (See Anderson, Alexander, assignor.)
Lane-Wells Company. (See Elliott, Daniel W., assignor.)

Lane-Wells Company. (See Hendrickson, Ralph E., assignor.)
Lane-Wells Company. (See Wells, Walter T., assignor.)
Langert, A. Howard. (See Benkert, John, assignor.)
Langgässer, Heinrich, Berlin-Grunewald, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany. Apparatus for establishing an artificial horizon. 2,167,422; July 25.
Lanser, Alfred H., Paris, France. Clutch control. 2,167,118; July 25.
Lapointe Machine Tool Company, The. (See Monroe, Kenneth C., assignor.)
Lasch, Albert, Stuttgart Bad Canstatt, and E. Eppler, Stuttgart, Germany, assignor to Baker Perkins Company, Inc., Saginaw, Mich. Apparatus for shredding alkali-cellulose or like fibrous materials. 2,167,214; July 25.
Lawarree, Henri, Brussels, Belgium. Manufacture of caustic soda. 2,167,404; July 25.
Lawrence Duck Company. (See Barrell, William A., assignor.)
Lawson, Frans O., Greensboro, N. C. Antislipping device. 2,166,958; July 25.
Lawson, Robert H., Pawtucket, and I. H. C. Green, assignors to Hemphill Company, Central Falls, R. I. Wrap stripe knitting machine. 2,167,390; July 25.
Lay, Charles H., assignor to The Union Switch & Signal Company, Swissvale, Pa. Interlocking control apparatus. 2,167,027; July 25.
Layous, Laurent. (See Estep, Russel, assignor.)
Leary, James W., Bloomfield, N. J., assignor to American Machine & Foundry Company. Cigarette tipper. 2,167,119; July 25.
Leary, James W., Bloomfield, N. Y., assignor to American Machine & Foundry Company. Sponge rubber roller and making the same. 2,167,215; July 25.
Leatherman, Martin, Hyattsville, Md. Fireproofing composition. 2,167,278; July 25.
Leeds & Northrup Company. (See Stein, Irving M., assignor.)
Legarda, Vicente L., Manila, P. I. Roof. 2,167,048; July 25.
Leismer, Paul W., Evanston, and B. M. Lockard, Oak Park, Ill. Rail cooling. 2,167,485; July 25.
Lemmon, William G., and A. Stowers, New York, N. Y. Toilet seat cover dispenser. 2,166,996; July 25.
Leufvén, Axel, Schweinfurt, Germany, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden. Bearing housing support. 2,167,457; July 25.
Leverett, Henry D. (See Maurath, G. A., and Leverett.)
Levin, Abraham S. (See Norton, John L., assignor.)
Levy, Hyman, et al. (See Mohler, James V., assignor.)
Libbey Glass Company. (See Schutz, Harold R., assignor.)
Lichtenberg, Erich H., and O. Sheck, assignors to Koehring Company, Milwaukee, Wis. Dual drum mixer. 2,167,243; July 25.
Lieberknecht, Karl R., Oberlungwitz, Germany, assignor to Kallo, Inc., New York, N. Y. Knitting machine. 2,166,959; July 25.
Lieberman, Benjamin R., Brooklyn, N. Y. Combination electric lamp. 2,167,458; July 25.
Lingo, William, Pasadena, Calif. Full floating starting device. 2,167,618; July 25.
Link-Belt Company. (See Ekbom, Hilmer N., assignor.)
Lins, Carl G., Tuckahoe, N. Y. Picture making device. 2,167,518; July 25.
Little, Royal, Providence, and F. W. Fraim, Cranston, assignors to Atlantic Rayon Corporation, Providence, R. I. Pretesting and dyeing textile packages. 2,167,365; July 25.
Liuhto, Martti J., Kytaja, Finland. Implement for topping of beets. 2,167,244; July 25.
Lloyd, Thorne E., Netcong, N. J., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y. Calcining finely divided calcium carbonate. 2,167,120; July 25.
Lockard, Bernhard M. (See Leisner, P. W., and Lockard.)
Lodge & Shipley Machine Tool Company, The. (See Dolle, William L., assignor.)
Loewenstein, Rudolf. (See Hartmann, O. H., and Loewenstein.)
Lohr, Raymond, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. String-controlled wheeled toy. 2,167,246; July 25.
Lohr, Raymond, and R. N. Carver, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Wheeled toy steered by remote control. 2,167,245; July 25.
London, Samuel M. (See Brownstein, Harry, assignor.)
Long, John R., assignor of forty-nine-hundredths to J. T. Reinsel, Washington, Ind. Phonograph. 2,167,459; July 25.
Löpp, Edmund H. (See van Overbeek, A. J. W. M., and Löpp.)
Lorenz, C., Aktiengesellschaft. (See Bauer, Erwin, assignor.)
Lorenz, C., Aktiengesellschaft. (See Haase, Theodor, assignor.)
Lorenz, C., Aktiengesellschaft. (See Helmert, Robert, assignor.)
Lorenz, C., Aktiengesellschaft. (See Hornung, Heinrich, assignor.)
Lorenz, C., Aktiengesellschaft. (See Jacobs, Hans, assignor.)
Lorenz, C., Aktiengesellschaft. (See Ketch, Annemarie, assignor.)
Lorenz, C., Aktiengesellschaft. (See Nitz, Herbert, assignor.)
Lösch, Josef, assignor to Aktiengesellschaft für Stickstoffduenger, Knapsack, near Cologne-on-the-Rhine, Germany. Distilling organic acid anhydride. 2,166,997; July 25.
Loughren, Arthur V., Tuckahoe, N. Y., assignor to Hazeltine Corporation. Fidelity control. 2,167,405; July 25.
Lummus Company, The. (See Guerrieri, Salvatore A., assignor.)
Lummus Company, The. (See McGovern, Frank J., assignor.)
Lutherer, Otto. (See Naab, G. F., and Lutherer.)
Lyon, Harry, Abington, assignor, by mesne assignments, to G. A. Huff, Brockton, Mass. Method of and machine for skiving. 2,166,960; July 25.
MacDonald, Raymore D. (See Raney, C. R., MacDonald, and Hilblom.)
Maczko, Frank, Chicago, Ill. Oil or gas heating radiator. 2,167,406; July 25.
Magazine Repeating Razor Company. (See Rodrigues, Octavius V., assignor.)
Mageoch, Harry Y. (See Graham, H. J., and Mageoch.)
Malcom, Robert, Chicago, Ill. Face protector. 2,167,580; July 25.
Mallory, Marion, assignor to The Mallory Research Company, Detroit, Mich. Centrifugal advance mechanism. 2,167,366; July 25.
Mallory, P. R., & Co. (See Hensel, Franz R., assignor.)
Mallory, P. R., & Co. (See Nulsen, M. E., and Goetz, assignors.)
Mallory, P. R., & Co. (See Nulsen, M. E., and Mitchell, assignors.)
Mallory Research Company, The. (See Mallory, Marion, assignor.)
Manny, Fred L., assignor to F. P. Rosback Company, Benton Harbor, Mich. Rotary punching and notch cutting machine. 2,167,279; July 25.
Manthorne, William H., Bayshore, assignor to Western Electric Company, Incorporated, New York, N. Y. Electron discharge device. 2,167,519; July 25.
Marbon Corporation. (See Heckel, Hermann, assignor.)
Marbon Corporation. (See Winkelmann, H. A., and Moffett, assignors.)
Maris, James C., Glenolden, Pa. Four cylinder locomotive. 2,167,216; July 25.
Markey, Frank G., Battle Creek, Mich. Locomotive valve mechanism. 2,167,280; July 25.
Marple, Rollo, assignor to Hancock Manufacturing Company, Jackson, Mich. Lock keeper. 2,167,391; July 25.
Marr, David, Warsaw, N. Y. Magnet for organs. 2,167,407; July 25.
Marsh, John W., Washington, D. C. Torque transmitting device. 2,166,961; July 25.
Martin, Glenn L., Company, The. (See Klemm, Herman G., assignor.)
Marx, Louis, & Company. (See Lohr, Raymond, assignor.)
Marx, Louis, & Company. (See Lohr, R., and Carver, assignors.)
Marx, Louis, & Company. (See McKelge, Edward E., assignor.)
Mason, William H., assignor to Masonite Corporation, Laurel, Miss. Continuous production of ligno-cellulose fiber product. 2,167,440; July 25.
Mason, William S., Washington, D. C. Needle threader. 2,167,080; July 25.
Masonite Corporation. (See Mason, William H., assignor.)
Masteller, Malcolm L., Miami, Fla. Hydraulic brake. 2,166,962; July 25.
Masucci, Peter, Norwood, assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa. Antigenic polysaccharide complex. 2,166,963; July 25.
Matheny, Willard R., administrator. (See Harnley David H.)
Mathes, Richard E., Westfield, N. J., assignor to Radio Corporation of America. Start-stop printer adaptation to synchronous multiplex telegraphy. 2,167,247; July 25.
Mathes, Richard E., Westfield, N. J., assignor to Radio Corporation of America. Facsimile reproducing device. 2,167,460; July 25.
Maurath, George A., Cleveland, and H. D. Leverett, East Cleveland, Ohio; said Leverett assignor to said Maurath. Article feeding apparatus. 2,167,049; July 25.
Mauzin, André E., Fontenay-aux-Roses, France. Device for the continuous determination and recording of the cant of a railway track. 2,167,081; July 25.
McAdams, Harry, assignor to The Nolde and Horst Company, Reading, Pa. Stitch transfer mechanism for knitting machines. 2,167,581; July 25.
McBurney, Walter G. (See Cox, George E., and McBurney)
McCabe, Ira E., Chicago, Ill. Automatic load control. 2,167,155; July 25.
McClain, Milford E., et al. (See Mohler, James V., assignors.)
McCord, Hugh A., Elk City, Kans. Musical instrument. 2,167,582; July 25.
McCormick & Company. (See Jones, Jesse L., assignor.)

McCreary, Harold J., Lombard, and R. G. Richardson, Chicago, Ill. Timing and timing device. 2,167,121; July 25.
McCurdy, Wesley R., St. Catharines, and J. W. Boyle, Merritton, Ontario, Canada. Formation of coursewise integrally knitted heel and instep stocking structures. 2,167,248; July 25.
McDermott, Henry J., Prospect Park, assignor to American Viscose Corporation, Marcus Hook, Pa. Rayon spinning machine funnel bracket. 2,167,583; July 25.
McDonald, Angus, assignor to Baldwin Rubber Company, Pontiac, Mich. Apparatus for forming molded articles. 2,167,392; July 25.
McEwen, Robert L. (See Kauffmann, H. O., and McEwen.)
McGovern, Frank J., Forest Hills, assignor to The Lummus Company, New York, N. Y. Codenser. 2,167,028; July 25.
McKay, John B. (See West, Lloyd L., assignor.)
McKelge, Edward E., Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Sparking toy. 2,167,249; July 25.
McKeown, Henry F., Cedar Grove, assignor of one-half to L. C. Smyth, Glen Ridge, N. J. One pipe steam heating system. 2,167,336; July 25.
McLafferty, Joel E., Omaha, Nebr. Reinforcing member for heterogeneous beams. 2,167,029; July 25.
McLean, Francis C. (See Strong, C. E., and McLean.)
McMillen, Pearl B. (See Smith, J. D., and McMillen.)
Mead Johnson & Company. (See Barton, R. W., and Cox, assignors.)
Meisel, Charles A. (See Brenn, C. W., and Meisel.)
Messer, William E., Cheshire, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Vulcanization of rubber. 2,167,030; July 25.
Metal Carbides Corporation. (See De Bats, J. H. L., and Ritz, assignors.)
Metcalf, Howard H., assignor to Metcalf Manufacturing Co., Battle Creek, Mich. Method and apparatus for heating. 2,167,122; July 25.
Metcalf Manufacturing Co. (See Metcalf, Howard H., assignor.)
Metzner, Albert W. (See Sherman, J. Q., Metzner, and Gopperton.)
Meyer, George L. N., Milwaukee, Wis. Filler valve. 2,167,123; July 25.
Meyers, Stanley T., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave amplifying system. 2,167,367; July 25.
Meyers, Stanley T., East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electric wave amplifying system. 2,167,368; July 25.
Michael, Wilhelm. (See Pier, M., Michael, and Jaeckh.)
Michalk, Otto, Dresden, Germany. Hammering roller with balls. 2,167,181; July 25.
Michigan, The State of, as represented by the Attorney General. (See Wessborg, E. S., and Morrison, assignors.)
Michigan Tool Company. (See Drader, J. C., and Rovick, assignors.)
Midland Steel Products Company, The. (See Smith, William E., assignor.)
Miles, Lawrence D., Ballston Lake, N. Y., assignor to General Electric Company. Liquid cathode device. 2,167,521; July 25.
Miller Printing Machinery Co. (See Huffman, Samuel A., assignor.)
Milligan, Herschel L., assignor of one-half to J. B. Cook, Nashville, Tenn. Ice cream can holder, lifter, and scraper. 2,167,217; July 25.
Milwaukee Lace Paper Company. (See Hamilton, Kenneth C., assignor.)
Minneapolis-Honeywell Regulator Company. (See Wilson, John M., assignor.)
Minton, John P., Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Apparatus for recording seismic waves. 2,167,124; July 25.
Mitchell, Donald H. (See Nulsen, M. E., and Mitchell.)
Mitchell, Henry W. (See Haskins, B. J., and Mitchell.)
Modern Equipment Company. (See Goldberg, Max W., assignor.)
Moertel, Henry, Chicago, Ill. Sounding board for stringed instruments. 2,167,486; July 25.
Moffett, Eugene W. (See Winkelmann, H. A., and Moffett.)
Mohler, James V., assignor of seventeen and five-tenths per cent to H. Levy, Oelwein, and seventeen and five-tenths per cent to M. E. McClain, seven and five-tenths per cent to W. E. Jones, and seven and five-tenths per cent to G. W. Till, Charles City, Iowa. Aircraft propeller. 2,167,050; July 25.
Monney, Louis, Lausanne, assignor to the firm Recomatics S.-A., Geneva, Switzerland. Draft regulator for combustion apparatus. 2,167,307; July 25.
Monroe, Kenneth C., assignor to The Lapointe Machine Tool Company, Hudson, Mass. Pressure-sustaining valve. 2,167,281; July 25.
Monsanto Chemical Company. (See Harman, Marion W., assignor.)
Monsanto Chemical Company. (See Kirkpatrick, Arnold, assignor.)
Monsanto Chemical Company. (See Thomas, Charles A., assignor.)
Moore, Almer F. (See Morrissey, M. A., and Moore.)
Moore, William E., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa. Electric furnace roof ring. 2,166,964; July 25.
Moran, Robert C. (See Crandall, G. S., Moran, and Berger.)
Morgan, John G., Collingdale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Brazing turbine blades. 2,166,998; July 25.
Morris, Anthony W., Spokane, Wash. Tenon cutter. 2,167,082; July 25.
Morris, William L. (See Laddaga, Joseph, assignor.)
Morrison, William J. (See Wessborg, E. S., and Morrison.)
Morrissey, Martin A., and A. F. Moore, Brighton, Mass., assignors of one-fourth to Oliver United Filters Incorporated, San Francisco, Calif. Preparing concrete. 2,167,156; July 25.
Morrow, Clarence H., Shaker Heights, assignor to The Hotstream Heater Company, Cleveland, Ohio. Draft regulator. 2,167,182; July 25.
Morton, James, and W. L. C. Carter, Carlisle, assignors to F. N. F. Limited, Gloucester, England. Knitting machinery. 2,167,408; July 25.
Morue, George C., Maud, Okla. Tubing rack. 2,167,584; July 25.
Moss, Sanford A., Lynn, Mass., assignor to General Electric Company. Dynamo-electric machine. 2,167,487; July 25.
Motor Terminals, Inc. (See Fitch, Benjamin F., assignor.)
Motrinec, Alexander, Maplewood, N. J. Machine to cube steaks. 2,167,051; July 25.
Muehlberg, Karl O., Manitowoc, Wis. Folding stepladder. 2,167,157; July 25.
Muehlberg, Karl O., Manitowoc, Wis. Folding card table. 2,167,158; July 25.
Mulvaney, Anthony J., Jackson, Mich. Hinge. 2,167,585; July 25.
Muncy, David J., Amarillo, Tex. Pneumatic drilling method and means. 2,167,393; July 25.
Murcell, U. C., Inc. (See Murcell, Uriel C., assignor.)
Murcell, Uriel C., assignor to U. C. Murcell, Inc., Los Angeles, Calif. Welding and setting well casing. 2,167,338; July 25.
Murphy, David Z., Portland, Oreg. Grinding wheel and cooling the same. 2,167,282; July 25.
Murphy, Emmett P., et al. (See Van Eweyk, William F., assignor.)
Musselman, Alvin J., Cleveland Heights, Ohio. Brake. 2,167,551; July 25.
Muth, Herbert, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Telegraphy. 2,167,461; July 25.
N. V. Philips' Gloeilampenfabrieken. (See Burgers, W. G., Bruining, and Kleynen, assignors.)
N. V. Philips' Gloeilampenfabrieken. (See Tellegen, Bernardus D. H., assignor.)
N. V. Philips' Gloeilampenfabrieken. (See van Overbeek, A. J. W. M., and Löpp, assignors.)
Naab, George F., Lakewood, and O. Lutherer, Solon, assignors to The North American Manufacturing Company, Cleveland, Ohio. Gas burner. 2,167,183; July 25.
Nachman Springfilled Corporation. (See Gleason, William W., assignor.)
Nädelin, Eugen, Ebingen, assignor to A. Guhring, Ebingen, Wuittemberg, Germany. Machine tool for bar stock. 2,167,308; July 25.
Nash-Kelvinator Corporation. (See Baker, Ralph E., assignor.)
National Aniline and Chemical Company. (See Flett, Lawrence H., assignor.)
National Colortype Company, The. (See Grote, Walter F., assignor.)
National Foam System, Inc. (See Boyd, Fisher L., assignor.)
National Malleable and Steel Castings Company. (See Blackmore, William, assignor.)
National Supply Company, The. (See Engstrom, Birger, assignor.)
National Tube Company. (See Findlater, Stevenson, assignor.)
National Tube Company. (See Novack, Edward J., assignor.)
Neal, Ralph H. (See Haurand, C. H., Neal, and Vahlteich.)
Needham, Howard H., Wauwatosa, and F. K. Zerbe, assignors to A. O. Smith Corporation, Milwaukee, Wis. Quick opening pressure vessel. 2,166,999; July 25.
Needham, William. (See Sykes, C., and Needham.)
Nelson, Charles S. (See Benner, R. C., Wooddell, and Nelson.)
Nelson, Jabez C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Agitator for washing machines. 2,167,218; July 25.
Neptune Meter Company. (See Hazard, Charles S., assignor.)
New Jersey Machine Corporation. (See von Hofe, George W., assignor.)
New York Air Brake Company, The. (See Safford, Lewis A., assignor.)
Nigro, Michel, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey. Pavement joint. 2,167,423; July 25.

Nilson, Eric H., and F. A. Carstens, assignors to A. O. Smith Corporation, Milwaukee, Wis. Supporting bracket for cylindrical vessels. 2,167,000; July 25.

Nitz, Herbert, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electric separating filter. 2,167,522; July 25.

Nolde and Horst Company, The. (See McAdams, Harry, assignor.)

North American Manufacturing Company, The. (See Naab, G. F., and Lutherer, assignors.)

Norton Company. (See Silven, Herbert A., assignor.)

Norton, John L., New York, N. Y., assignor of one-half to A. S. Levin, Philadelphia, Pa. Beverage dispensing apparatus. 2,167,309; July 25.

Novack, Edward J., McKeesport, Pa., assignor to National Tube Company. Pipe or tube making. 2,167,424; July 25.

Novotny, Carl G. (See Frentzel, H. C., Jr., and Novotny.)

Nulsen, Marvin E., and L. R. Goetz, assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electric meter. 2,167,083; July 25.

Nulsen, Marvin E., Indianapolis, Ind., and D. H. Mitchell, Chicago, Ill., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind. Electric potential converter and circuits therefor. 2,167,084; July 25.

Nutting, Arthur, assignor to American Air Filter Company, Inc., Louisville, Ky. Air filter lint screen. 2,167,283; July 25.

Ohlson, Bengt E., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa. Mechanism for automatically determining and indicating unbalance in rotatable bodies. 2,167,488; July 25.

Oliver United Filters Incorporated. (See Morrissey, M. A., and Moore, assignors.)

Oliver United Filters Incorporated. (See Oliver, William H., assignor.)

Oliver, William H., Oakland, assignor to Oliver United Filters Incorporated, San Francisco, Calif. Filter. 2,167,159; July 25.

Olsen, Tinius, Testing Machine Company. (See Ohlson, Bengt E., assignor.)

Oppenheim, David, Detroit, Mich. Casket construction. 2,167,001; July 25.

Orgitano, Nick, Lebanon, Pa. Shoe finishing machine. 2,167,310; July 25.

Owens-Illinois Glass Company. (See Hohl, J., and Whittier, assignors.)

Oxweld Acetylene Company. (See Wagner, Robert L., assignor.)

Pacini, August J., Chicago, Ill., assignor, by mesne assignments, to U. S. Vitamin Corporation, New York, N. Y. Vitamin E composition. 2,167,002; July 25.

Page, Charles E., Los Angeles, Calif. Treating coffee. 2,167,085; July 25.

Page Engieering Company. (See Page, John W., assignor.)

Page, Herbert E., Syracuse, N. Y. Washing apparatus. 2,167,086; July 25.

Page, John W., assignor to Page Engineering Company, Chicago, Ill. Tooth-point construction. 2,167,425; July 25.

Paine, Frank C., Wayland, Mass. Ship construction. 2,167,552; July 25.

Palmer, Albert, Alburg, Vt. Automatic mop wringer. 2,166,965; July 25.

Patent License Corporation. (See Arenberg, Albert L., assignor.)

Paullin, Edward M., Jr., Buffalo, assignor to Worthington Pump and Machinery Corporation, New York, N. Y. Variable capacity compressor. 2,167,369; July 25.

Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Dobby knife guide. 2,167,052; July 25.

Pearson Sanding Machine Company. (See Jones, Charles, assignor.)

Pensbee, Otis E., St. Paul, Minn. Automatic power control means for variable speed pulleys. 2,167,003; July 25.

People in the Territory of the United States, Dedicated to the free use of the. (See Gould, S. P., and Whittier.)

Petrolite Corporation, Ltd. (See De Groote, M., Keiser, and Blair, assignors.)

Pfirrmann, Theodor W., Castrop-Rauxel, assignor to Friedrich Uhde, Dortmund, Germany. Making a solid bituminous hydrocarbon product. 2,167,250; July 25.

Pflager, Harry M., St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill. Railway truck structure. 2,167,125; July 25.

Phillips, Paul D., Elmhurst, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Lighting unit. 2,167,184; July 25.

Phillips Petroleum Company. (See Schulze, Walter A., assignor.)

Pier, Mathias, Heidelberg, W. Michael, Ludwigshafen-on-the-Rhine, and W. Jaeckh, Heidelberg, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of hydrocarbons. 2,167,004; July 25.

Pierce, John B., Foundation. (See Davison, Robert L., assignor.)

Pintsch, Julius, Kommanditgesellschaft. (See Düllenbach, Walter, assignor.)

Pitney-Bowes Postage Meter Co. (See Rouan, F. J., and Sova, assignors.)

Pitney-Bowes Postage Meter Co. (See Wheeler, Walter H., Jr., assignor.)

Pitt, William, Brooklyn, N. Y. Circuit closer for use in a signaling device for motor vehicles. 2,167,031; July 25.

Pittsburgh Research Corporation. (See Moore, William E., assignor.)

Pliantor Inc. (See Costigan, Peter J., assignor.)

Poege, Max, Uster, near Zurich, Switzerland. Device for holding cigarettes and cigars. 2,167,586; July 25.

Postma, Frank, Ridgewood, N. J. Abrading crankshafts. 2,167,311; July 25.

Postma, Frank, Ridgewood, N. J. Abrading element. 2,167,312; July 25.

Potter Company, The. (See Haskins, B. J., and Mitchell, assignors.)

Present, Mortimer T., assignor to Janalene, Inc., Indianapolis, Ind. Seam for fabrics. 2,167,371; July 25.

Preston, Frank W., Butler, Pa. Bottle testing apparatus. 2,167,185; July 25.

Priebe, Ernest B., Woodhaven, N. Y. Stoker furnace. 2,166,966; July 25.

Purdy, Eugene H. (See Spangler, J. I., Eades, and Purdy.)

Purvin, Benjamin R., assignor to Barber-Colman Company, Rockford, Ill. Hobbing machine. 2,167,267; July 25.

Quick, Roy T., assignor to G. H. Werfelman, Los Angeles, Calif. Pipe cleaning apparatus. 2,167,087; July 25.

Radio Corporation of America. (See Belar, Herbert, assignor.)

Radio Corporation of America. (See Carlson, Wendell L., assignor.)

Radio Corporation of America. (See Farnham, Paul O., assignor.)

Radio Corporation of America. (See Hansell, Clarence W., assignor.)

Radio Corporation of America. (See Koch, Winfield R., assignor.)

Radio Corporation of America. (See Landon, Vernon D., assignor.)

Radio Corporation of America. (See Mathes, Richard E., assignor.)

Radio Corporation of America. (See Tolson, William A., assignor.)

Radio Corporation of America. (See Van Dyck, A. F., and Goldsmith, assignors.)

Radio Patents Corporation. (See Guanella, Gustave, assignor.)

Raney, Clemma R., Riverside, R. D. MacDonald, Western Springs, and S. E. Hiblom, Chicago, Ill., assignors to International Harvester Company. Tractor mower. 2,166,967; July 25.

Raymond, Gwynne, Oklahoma City, Okla. Apparatus for treating liquids. 2,167,160; July 25.

Read Machinery Company. (See Jackson P., and Cady.)

Read Machinery Company. (See Spangler, J. I., Eades, and Purdy, assignors.)

Rechnitzer, Rudolf, Budapest, Hungary, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Variable electric filter. 2,167,462; July 25.

Recker, Adolph C., Watertown, assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn. Drain fitting and production thereof. 2,167,372; July 25.

Recomatic S.-A. (See Monney, Louis, assignor.)

Refrigerated Air Conditioning Corporation. (See Whitlock, Kenneth E., assignor.)

Regester, Ramsay G., assignor to Gill Glass & Fixture Company, Philadelphia, Pa. Illuminated clock. 2,167,463; July 25.

Reichel & Drews, Inc. (See Booty, Philip C. P. and R. G., assignors.)

Reichenbach, Karl, Karlsruhe, Germany. Fountain brush. 2,167,523; July 25.

Reichhold Chemicals, Inc. (See Hodgins, Theodore S., assignor.)

Reinsel, John T. (See Long, John R., assignor.)

Renga, Fernando L., assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Electrical appliance hinge. 2,167,489; July 25.

Renik, Andrew, New York, N. Y. Window-cleaning device. 2,167,524; July 25.

Richardson, Rodney G. (See McCreary, H. J., and Richardson.)

Richmond Foundry & Mfg. Co. Inc., The. (See Shelor, Frederick L., assignor.)

Riehl, John J., Cleveland, Ohio. Automobile bumper guard. 2,167,186; July 25.

Riszdorfer, Ödön, Budapest, Hungary. Photographic camera built integral with an electric exposure meter. 2,167,053; July 25.

Rit Products Corporation. (See Kritchevsky, Wolf, assignor.)

Ritz, John A. (See De Bats, J. H. L., and Ritz.)

Rivington, Arthur A., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Sole-fitting machine. 2,167,054; July 25.

Roberts, Charlie W. (See Roberts, Louie A., assignor.)

Roberts, Louie A., assignor of one-third to C. W. Roberts, Jackson, Miss. Latch mechanism. 2,167,324; July 25.

Roberts, William T. B., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 2,167,056; July 25.

Robinson, Frank W. (See Spicher, C. E., and Robinson.)

Rocke, William, South Bend, Ind. Clutch mechanism. 2,167,373; July 25.

Rodanet, Charles H. H., Neuilly-sur-Seine, assignor to Société Anonyme: Etablissements Ed. Jaeger, Levallois-Perret (Seine), France. Switch unit. 2,167,374; July 25.

Rodger Ballast Car Company. (See Hindahl, David, assignor.)

Rodriques, Octavius V., Fairfield, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y. Razor. 2,167,032; July 25.

Rogers, Allen, assignor to Davis & Geck, Inc., Brooklyn, N. Y. Surgical tape of submucosa tissue. 2,167,251; July 25.

Rogers, Donald A., Petersburg, Va., and C. W. Brown, Yonkers, assignors to The Solvay Process Company, New York, N. Y. Manufacture of ammonium nitrate. 2,167,464; July 25.

Rohlin, Karl W., Moorestown, N. J. Apparatus for controlling the operation of internal combustion engines of the multicylinder type. 2,166,968; July 25.

Röhrs, Wilhelm, Hessenwinkel, near Berlin, Germany, assignor to Bakelite Corporation, New York, N. Y. Moldable composition and product. 2,167,313; July 25.

Roland, Heinrich. (See Jann, K., and Roland.)

Roman, Benjamin, New York, N. Y. Building brick and wall. 2,167,187; July 25.

Rooch, Allen T., Cincinnati, Ohio. Diffuser of vaporous liquids. 2,166,969; July 25.

Rosback, F. P., Company. (See Manny, Fred L., assignor.)

Rose, William K., New York, N. Y. Airfoil. 2,167,601; July 25.

Rosen, Raphael. (See Wiezevich, P. J., and Rosen.)

Rosendale, Robert W., Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Cabinet. 2,167,525; July 25.

Rothe, Horst, and R. Urtel, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Demodulating device. 2,167,033; July 25.

Rouan, Francis J., and F. C. Sova, assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn. Moistening device. 2,167,252; July 25.

Rovick, John D. (See Drader, J. C., and Rovick.)

Rowe, Abner T., Jr., et al. (See Rowe, Maude H., assignor.)

Rowe, Maude H., assignor of one-fourth to R. L. Stevens, and one-fourth to A. T. Rowe, Jr., Washington, D. C. Cover for toilet seat cover. 2,167,587; July 25.

Rozumek, Ernst, Berlin-Zehlendorf, Germany, assignor to Sun-Vic Controls Limited, London, England. Electromagnetically operated switch. 2,167,588; July 25.

Rubenstein, Harry J., Kansas City, Mo. Display fixture. 2,167,375; July 25.

Ruppelt, Alban. (See Schaarwächter, C., and Ruppelt.)

Ryan, Thomas, assignor of two-fifths to H. B. Burr, Milwaukee, Wis. Apparatus for locating concealed conductive bodies. 2,167,490; July 25.

Sabo, Louis, Bronx, and J. Kiss, New York, N. Y. Shoe heel reinforcement. 2,167,526; July 25.

Sadtler, Helena S., Erdenheim, Pa. Crunch pad for the protection and cleansing of ashtrays. 2,167,261; July 25.

Safford, Lewis A., Watertown, N. Y., assignor to The New York Air Brake Company. Air brake. 2,167,057; July 25.

Sageb, Société Anonyme de Gestion et d'Exploitation de Brevets. (See Brandt, Edgar W., assignor.)

Salmon, Reginald D., assignor to Creed and Company Limited, Croydon, England. Telegraph apparatus. 2,167,527; July 25.

Salmon, Reginald D., Croydon, assignor to Creed and Company Limited, Croydon, Surrey, England. Telegraph transmitter. 2,167,528; July 25.

Sanger, George J., Park Ridge, Ill. Rotary sewer cleaning machine. 2,167,268; July 25.

Sankey, Elmer, Belle Fourche, S. Dak. Foldable tent. 2,167,219; July 25.

Sarkar, Chandra S., Calcutta, India. Converting reciprocating into rotary motion. 2,167,314; July 25.

Sander, Howard R., Wheeling, W. Va. Shield for nursing nipples. 2,167,284; July 25.

Sauerman, Ernst C., Chicago, Ill. Preaddressed envelope. 2,167,005; July 25.

Sayen, John, Detroit, Mich. Combination drag and harrow. 2,167,262; July 25.

Schaack, Frank A., assignor to Chicago Mill and Lumber Company, Chicago, Ill. Wire bound box. 2,167,126; July 25.

Scaife, Frederick N., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Apparatus for timing X-ray exposures. 2,167,529; July 25.

Schaarwächter, Carl, and A. Ruppelt, Altena, assignors to Vereinigte Deutsche Metallwerke Aktiengesellschaft, Frankfort-on-the-Main-Heddernheim, Prussia, Germany. Sound recording and reproducing element, and more particularly a permanent magnet therefor. 2,167,188; July 25.

Schat, Ane P., Utrecht, Netherlands. Ship. 2,167,315; July 25.

Schemel, John H., Archibald, Pa. Dust collector for drills. 2,167,220; July 25.

Schirmer, Walter E., Chicago, Ill., assignor to Clark Equipment Company, Buchanan, Mich. Axle housing and making same. 2,167,088; July 25.

Schmidt, Alfred, Weehawken, N. J. Soldering machine. 2,167,006; July 25.

Schmidt, Walter, Menden, Kreis Iserlohn, Germany. Automatic door check with tension contrivance and mechanical brake. 2,167,409; July 25.

Schmidt, Willi, and K. Huttner, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of amines. 2,166,971; July 25.

Schmidt'sche Heissdampf, Gesellschaft m. b. H. (See Hartmann, O. H., and Loewenstein, assignors.)

Schneider, Elbert D., Scotia, N. Y., assignor to General Electric Company. System of dynamic braking. 2,167,530; July 25.

Schoeninger, John J., Forest Hills, Long Island, N. Y. Link. 2,167,491; July 25.

Schloz, Herman A., Oak Park, assignor to United States Gypsum Company, Chicago, Ill. Casein paint. 2,167,221; July 25.

Schonitzer, Rudolph I., Shaker Heights, Ohio. Combined door-checking and door-holding device. 2,166,970; July 25.

Schott, Lionel, East Orange, and S. B. Wright, South Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission circuit. 2,167,007; July 25.

Schulz, Reinhold E. C., Berlin-Spandau, assignor to Auto Union Aktiengesellschaft, Chemnitz, Germany. Vehicle body. 2,167,376; July 25.

Schulze, Walter A., Bartlesville, Okla., assignor to Phillips Petroleum Company. Treatment of hydrocarbon oils. 2,167,602; July 25.

Schutz, Harold R., Ottawa Hills, assignor to Libbey Glass Company, Toledo, Ohio. Banding articles. 2,167,589; July 25.

Schwencke, Edmund H., New York, N. Y. Acoustical device. 2,167,377; July 25.

Sciaky, David, Paris, France. Apparatus for measuring electric energy. 2,167,553; July 25.

Sciaky, David, Paris, France. Electric welding of tubes. 2,167,554; July 25.

Seebach, Fritz, Erkner, near Berlin, Germany, assignor to Bakelite Corporation, New York, N. Y. Lacquer and its preparation. 2,167,127; July 25.

Seguy, Jean D., assignor, by mesne assignments, to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 2,167,531; July 25.

Sell, Edwin A., Belleville, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Pencil. 2,167,465; July 25.

Seng Company, The. (See Fox, Martin, assignor.)

Seward, William V., Crescent City, Calif. Hairspring remover for watches and the like. 2,167,089; July 25.

Shaback, Andrew J., assignor to Electric Service Supplies Company, Philadelphia, Pa. Pull switch. 2,167,253; July 25.

Shane, William, Paterson, N. J., assignor to The Superheater Company, New York, N. Y. Locomotive superheater. 2,167,090; July 25.

Sharp & Dohme, Incorporated. (See Masucci, Peter, assignor.)

Shawhan, Samuel F., Maplewood, and C. M. Ashley, Summit, assignors, by mesne assignments, to Carrier Corporation, Newark, N. J. Fluid circulating system. 2,167,466; July 25.

Sheck, Oscar. (See Lichtenberg, E. H., and Sheck.)

Sheldon, Louis, Chicago, Ill. Cap remover. 2,166,972; July 25.

Shell Development Company. (See Talley, S. K., and Gutzeit, assignors.)

Shelor, Frederick L., Sandston, assignor to The Richmond Foundry & Mfg. Co. Inc., Richmond, Va. Lawn mower. 2,167,222; July 25.

Shepse, Max, Pittsburgh, Pa. Key duplicating machine. 2,167,008; July 25.

Sherman, Elroy P., assignor to The Ashtabula Corrugated Box Company, Ashtabula, Ohio. Packing spacer. 2,167,555; July 25.

Sherman, John Q., A. W. Metzner, and A. A. Gopperton, Dayton, Ohio; said Metzner and said Gopperton assignors to said Sherman. Motorized carbon shifter. 2,166,973; July 25.

Shields, Hardin O., Abilene, Tex., assignor to The Texas Company, New York, N. Y. Apparatus for treating cottonseed. 2,166,974; July 25.

Shoemaker, Richard W., and H. C. Daniels, Woodbury, assignors to Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Ventilated bus bar. 2,167,378; July 25.

Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Baesecke, Martin, assignor.)

Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Jann, K., and Roland, assignors.)

Siemens Apparate und Maschinen G. m. b. H. (See Köster, Paul E., assignor.)

Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung. (See Langgässer, Heinrich, assignor.)

Siemens & Halske, Aktiengesellschaft. (See Keinath, Georg, assignor.)
Sievert, Otto G. R. (See Alexandersson, H. V., and Siewert.)
Silex Company, The. (See Warner, Maurice L., assignor.)
Silven, Herbert A., assignor to Norton Company, Worcester, Mass. Cam grinding apparatus. 2,167,614; July 25.
Silven, Herbert A., assignor to Norton Company, Worcester, Mass. Grinding machine steady rest. 2,167,615; July 25.
Simpson, Robert, Casper, Wyo. Burial vault. 2,167,091; July 25.
Sims, Anna M., administratrix. (See Sims, Victor.)
Sims, Victor, deceased, Hendon; A. M. Sims, administratrix, assignor to Creed and Company, Limited, Croydon, Surrey, England. Telegraph, signaling, and like selective system and apparatus. 2,167,532; July 25.
Sisson, James L., Earle, Ark. Means and method for treating periodontal diseases. 2,167,467; July 25.
Skeen, John R., Philadelphia, Pa., assignor to The United Gas Improvement Company. Treatment of gas distribution systems. 2,167,139; July 25.
Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Piezoelectric vibrator oscillator. 2,167,254; July 25.
Skelton, Edward W., Erdington, Birmingham, England, assignor to The International Nickel Company, Inc., New York, N. Y. Producing superficial carbonization of metals and alloys. 2,167,128; July 25.
Skobel, Louis W., assignor to Interstate Metal Products Co., Inc., Chicago, Ill. Lock. 2,167,009; July 25.
Skol Company. (See Herstein, Karl M., assignor.)
Slaugenhop, George E., Vernon, Tex. Automobile speed control. 2,167,590; July 25.
Slaugenhop, George E., Vernon, Tex. Pump rod guide and check. 2,167,591; July 25.
Sleeper, Wesley A., Los Angeles, Calif. Brush. 2,167,129; July 25.
Smalley, Harvey S., Jr., Winthrop Harbor, Ill. Roof construction. 2,167,592; July 25.
Smith, A. O., Corporation. (See Needham, H. H., and Zerbe, assignors.)
Smith, A. O., Corporation. (See Nilson, E. H., and Carstens, assignors.)
Smith, A. O., Corporation. (See Yost, Lloyd, assignor.)
Smith, Christopher I. (See Cole, L. W., and Smith.)
Smith, Earle R., assignor to D. P. Holmes, Alhambra, Calif. Carpet sweeper. 2,166,977; July 25.
Smith, Harry F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,167,394; July 25.
Smith, John D., and P. B. McMillen, Kansas City, Mo. Dress display form. 2,167,161; July 25.
Smith, John F., Quincy, assignor to M. L. Dodge, Newburyport, Mass. Shoe upper pressing and smoothing machine. 2,167,410; July 25.
Smith, John L. (See Cochran, H. D., and Smith.)
Smith, Walter F. (See Jones, M., Smith, and Stewart.)
Smith, William E., Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio. Grommet. 2,167,285; July 25.
Smull, Judson G., Bethlehem, Pa., assignor, by mesne assignments, to Stacom Process Corporation, Long Island City, N. Y. Recovery of lignin from natural cellulose compounds. 2,167,556; July 25.
Smyth, Leonard C. (See McKeown, Henry F., assignor.)
Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Boudin, Louis, assignor.)
Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey. (See Verlay, Achille, assignor.)
Societe Anonyme dite Etablissements Laffly. (See Guérard, Georges, assignor.)
Societe Anonyme Etablissements Ed. Jaeger. (See Rodanet, Charles H. H., assignor.)
"Société Générale de Fours à Coke, Systèmes Lecocq" Société Anonyme. (See Gilles, Franz F. R. A., assignor.)
Socony-Vacuum Oil Company. (See Crandall, G. S., Moran, and Berger, assignors.)
Socony-Vacuum Oil Company. (See Minton, John P., assignor.)
Sologaiston, Manuel H. P., San Pedro Sula, Honduras. Mechanical movement. 2,166,975; July 25.
Sologaiston, Manuel H. P., San Pedro Sula, Honduras. Drive mechanism for locomotives or other vehicles, engines, or machinery. 2,166,976; July 25.
Solomon, Guillermo, Santiago, Dominican Republic. Torque compensator for airplanes. 2,167,533; July 25.
Solvay Process Company, The. (See Rogers, D. A., and Brown, assignors.)
Southern Textile Machinery Company. (See De Spain, Thomas H., assignor.)
Sova, Frank C. (See Rouan, F. J., and Sova.)
Spalding A. G., & Bros. (See Curry, William G., assignor.)
Spangler, John I., and J. A. Eades, York, Pa., and E. H. Purdy, Washington, D. C., assignors to Read Machinery Company, Incorporated, York, Pa. Rotary mixer. 2,167,316; July 25.
Spanner, Hans J., et al. (See Germer, Edmund, assignor.)
Sparks, John, et al., executors. (See Strauss, Joseph B.)
Spellholz, Emanuel, North Bergen, N. J., assignor to Duro-Test Corporation. Incandescent tubular lamp. 2,167,426; July 25.
Spicher, Charles E., Millersburg, and F. W. Robinson, Reading, Pa. Loop-cutting attachment for rib-knitting machines. 2,167,534; July 25.
Spiegler, Louis. (See Gubelmann, I., and Spiegler.)
Springfield Boiler Company. (See Duram, Arthur E., assignor.)
Sproule, Donald O., assignor of one-half to Henry Hughes & Son, Limited, London, England. Echo sounding and means therefor. 2,167,492; July 25.
Stack, William, Susquehanna, Pa. Dual control attachment for automobiles. 2,166,978; July 25.
Stacom Process Corporation. (See Smull, Judson G., assignor.)
Standard I. G. Co. (See Sweeney, William J., assignor.)
Standard Oil Company. (See Sullivan, Frederick W., Jr., assignor.)
Standard Oil Company. (See Thiele, Ernest W., assignor.)
Standard Oil Development Company. (See Gleason, Anthony H., assignor.)
Standard Oil Development Company. (See Tuttle, John B., assignor.)
Standard Oil Development Company. (See Wiezevich, P. J., and Rosen, assignors.)
Standard Railway Equipment Manufacturing Company. (See Thompson, William D., assignor.)
Standard Roofing Company. (See Weber, William C., assignor.)
Steger Furniture Mfg. Co. (See Trabucco, Vincent R., assignor.)
Stein, Irving M., assignor to Leeds & Northrup Company, Philadelphia, Pa. Mechanical relay apparatus. 2,167,010; July 25.
Steindorff, Adolf, G. Balle, and P. Heimke, Frankfort-on-the-Main, and K. Horst, Hofheim-in-Taunus, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Agents of capillary activity. 2,167,325; July 25.
Steindorff, Adolf, G. Balle, and P. Heimke, Frankfort-on-the-Main, and K. Horst, Hofheim-in-Taunus, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Agents of capillary activity. 2,167,326; July 25.
Stenson, Adolph, Elbow Lake, Minn. Protective coating. 2,167,317; July 25.
Stevens, Ralph L., et al. (See Rowe, Maude H., assignor.)
Stewart, Alexander. (See Jones, M., Smith, and Stewart.)
Stout Engineering Laboratories, Inc. (See Stout, William B., assignor.)
Stout, William B., Detroit, assignor, by mesne assignments, to Stout Engineering Laboratories, Inc., Dearborn, Mich. Folding wall construction for trailers. 2,167,557; July 25.
Stover, Joseph M., Jr., Palouse, Wash. Vehicle. 2,167,593; July 25.
Stowers, Allen. (See Lemmon, W. G., and Stowers.)
Stratman, Hugo J., Terraville, S. Dak. Door latch. 2,167,594; July 25.
Strauss, Annette, et al., executors. (See Strauss, Joseph B.)
Strauss, Joseph B., San Francisco, Calif, deceased; A. Strauss, J. Sparks, and H. C. Clausen, executors. Rapid transit system. 2,167,034; July 25.
Strong, Charles E., and F. C. McLean, London, England, assignors to International Standard Electric Corporation, New York, N. Y. Carrier wave signaling system. 2,167,535; July 25.
Sturtevant, B. F., Company. (See Foss, Benjamin S., assignor.)
Sults, Chauncey G., Schenectady, N. Y., assignor to General Electric Company. Submarine signaling. 2,167,536; July 25.
Sullivan, Frederick W., Jr., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Converting hydrocarbon oils. 2,166,933; July 25.
Sun-Vic Controls Limited. (See Rozumek, Ernst, assignor.)
Superheater Company, The. (See Shane, William, assignor.)
Sutcliff, John F., New York, N. Y. Water pump device. 2,167,493; July 25.
Svenska Aktiebolaget Bromsregulator. (See Browall, Bert H., assignor.)
Svistounoff, Boris, Issy-les-Moulineaux, France. Ignition device for engines. 2,167,269; July 25.
Sweeney, William J., Westfield, N. J., assignor to Standard I. G. Co. Hydrogenation of cyclic hydrocarbons. 2,167,339; July 25.
Sykes, Charles, Timperley, and W. Needham, Sale, England, assignors to General Electric Company. Electric heater. 2,167,494; July 25.
Talley, Samuel K., and C. L. Gutzeit, Houston, Tex., assignors to Shell Development Company, San Francisco, Calif. Breaking petroleum suspension. 2,167,327; July 25.
Talmage, John H. (See Unger, P. O., and Talmage.)
Tatum, John J., Baltimore, Md. Open top car. 2,167,427; July 25.
Telefonaktiebolaget L. M. Ericsson. (See Alexandersson, H. V., and Siewert, assignors.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Muth, Herbert, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H. (See Rechnitzer, Rudolf, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Rothe, H., and Urtel, assignors.)
Tellegen, Bernardus D. H., assignor to N. V. Philips Gloeilampenfabrieken, Eindhoven, Netherlands. Receiving circuit. 2,167,011; July 25.
Terman, Frederick E., Stanford University, Calif. Multirange meter. 2,167,162; July 25.
Tetzlaff, Benjamin A., Riverside, Ill. Front sight for firearms. 2,167,012; July 25.
Texas Company, The. (See Kaufman, Gus, assignor.)
Texas Company, The. (See Shields, Hardin O., assignor.)
Texas Company, The. (See Vietti, William V., assignor.)
Texas Company, The. (See Vietti, W. V., and Butler, assignors.)
Theobald, Thomas O., Royal Oak, Mich. Aerial. 2,167,286; July 25.
Thiebaud, Henri, assignor to firm Gruen Watch Mfg. Co. (A.-G.), Bienne, Switzerland. Watch movement. 2,167,604; July 25.
Thiele, Ernest W., assignor to Standard Oil Company, Chicago, Ill. Continuous propane dewaxing. 2,167,340; July 25.
Thomas, Charles A., Dayton, Ohio, assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo. Fractionating apparatus. 2,167,395; July 25.
Thomas, George H., Wayne, Mich. Maximum speed indicator. 2,167,092; July 25.
Thomas, Laurence H. (See Kuhn, F., and Thomas.)
Thompson, Richard J., Bakersfield, Calif. Aircraft. 2,167,143; July 25.
Thompson, William D., Birmingham, Mich., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Car roof. 2,167,396; July 25.
Tideman, Carl E., assignor of one-half to V. G. Anderson, Worcester, Mass. Water-cooled wire block. 2,167,397; July 25.
Tide Water Associated Oil Company. (See Cook, Elmer W., assignor.)
Till, Glenn W., et al. (See Mohler, James V., assignor.)
Timken-Detroit Axle Company, The. (See Alden, Herbert W., assignor.)
Tipcke, John J., Lake City, Minn. Ground pulverizer. 2,167,595; July 25.
Tjaarda, John, Birmingham, assignor to Briggs Manufacturing Company, Detroit, Mich. Cylinder head and making the same. 2,167,093; July 25.
Tobis, Carlos, Berlin-Oberschoneweide, Germany, assignor to General Electric Company. Liquid coating composition. 2,167,537; July 25.
Toepper, Henry C., Des Plaines, Ill. Artificial fish bait. 2,167,163; July 25.
Tolson, William A., Westmont, N. J., assignor to Radio Corporation of America. Cathode ray tube deflecting device. 2,167,379; July 25.
Tornblom, Nils A., Chicago, Ill., assignor to Appleton Electric Company. Separable connector. 2,167,223; July 25.
Trabucco, Vincent R., asisgnor to Steger Furniture Mfg. Co., Steger, Ill. Machine for bending wood sheets. 2,167,428; July 25.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trowbridge, Edwin G., Phoenix, N. Y. Fountain. 2,167,055; July 25.
Truscon Steel Company. (See Carnie, Alexander, assignor.)
Tubbs, Ira I., Coral Gables, Fla. Pneumatic tire. 2,167,398; July 25.
Türk, Johannes, Berlin-Kopenick, and H. Brede, Berlin-Niederschoneweide, Germany, assignors to General Electric Company. High-frequency cable. 2,167,538; July 25.
Turkington, Victor H., Caldwell, and W. H. Butler, Palisades Park, N. J., assignors to Bakelite Corporation, New York, N. Y. Oil-soluble resin. 2,167,094; July 25.
Tuttle, John B., Elizabeth, N. J., assignor to Standard Oil Development Company. Phthalic acid esters. 2,166,934; July 25.
Uhde, Friedrich. (See Pfirrmann, Theodor W., assignor.)
Ulinski, Bronislaus, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Power steering mechanism. 2,167,224; July 25.
Ulrich, Frederick. (See Wintritz, G., and Ulrich.)
Unger, Paul O., Glen Ellyn, and J. H. Talmage, assignors to Wilson-Jones Company, Chicago, Ill. Cabinet. 2,167,013; July 25.
Union Carbide and Carbon Corporation. (See Dorcas, Merrill J., assignor.)
Union Switch & Signal Company, The. (See Lay, Charles H., assignor.)
United-Carr Fastener Corporation. (See Woodward, Clement A., assignor.)
United Gas Improvement Company, The. (See Skeen, John R., assignor.)
United Gas Improvement Company, The. (See Williams, Duncan B., assignor.)
United Shoe Machinery Corporation. (See Bessom, Earl A., assignor.)
United Shoe Machinery Corporation. (See Hooper, Frederick E., assignor.)
United Shoe Machinery Corporation. (See Rivington, Arthur A., assignor.)
United Shoe Machinery Corporation. (See Roberts, William T. B., assignor.)
United States Gypsum Company. (See Scholz, Herman A., assignor.)
United States Rubber Company. (See Messer, William E., assignor.)
United States Rubber Company. (See Wikle, George F., assignor.)
U. S. Slicing Machine Company. (See van Berkel, Wilhelmus A., assignor.)
U. S. Vitamin Corporation. (See Pacini, August J., assignor.)
Universal Oil Products Company. (See Heid, Jacob B., assignor.)
Universal Oil Products Company. (See Seguy, Jean D., assignor.)
"Universelle" Cigarettenmaschinen-Fabrik J. C. Muller & Co. (See Körber, Kurt A., assignor.)
Upson, Ralph H., Ann Arbor, Mich., assignor to The Lamson & Sessions Company, Cleveland, Ohio. Self-tapping bolt. 2,167,558; July 25.
Upson, Ralph H., Ann Arbor, Mich., assignor to The Lamson & Sessions Company, Cleveland, Ohio. Self-tapping screw. 2,167,559; July 25.
Urtel, Rudolf. (See Rothe, H., and Urtel.)
Usher, Frederick F. (See Hastings, H. C., and Usher.)
Usines de Melle. (See Guinot, Henri M. E., assignor.)
Vahlteich, Hans W. (See Haurand, C. H., Neal, and Vahlteich.)
Van Berkel, Wilhelmus A., Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 2,167,095; July 25.
Van Brunt, Robert, Newark, N. J. Ski binding. 2,166,979; July 25.
Van den Stock, Paul A. C. F., Woluwe-Saint-Lambert, Brussels, Belgium. Three-wheel motor car. 2,167,096; July 25.
Van Dyck, Arthur F., Yonkers, and A. N. Goldsmith, New York, N. Y., assignors to Radio Corporation of America. Automatic volume control. 2,167,058; July 25.
Van Eweyk, George W., et al. (See Van Eweyk, William F., assignor.)
Van Eweyk, William F., assignor of one-fourth to G. W. Van Eweyk, one-fourth to C. M. Irwin, and one-fourth to E. P. Murphy, Milwaukee, Wis. Water-purifying apparatus. 2,167,225; July 25.
Van Overbeek, Adrianus J. W. M., and E. H. Löpp, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Secondary electron discharge device. 2,167,097; July 25.
Verderber, Joseph, Cleveland, Ohio. Socket-shank structure. 2,167,014; July 25.
Verderber, Joseph, Cleveland, Ohio. Machine tool. 2,167,189; July 25.
Vereinigte Deutsche Metallwerke Aktiengesellschaft. (See Schaarwächter, C., and Ruppelt, assignors.)
Verlay, Achille, Longueil-Annel, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France. Method and means for shaping glass. 2,167,318; July 25.
Vial, Frederick K., assignor to Griffin Wheel Company, Chicago, Ill. Process and apparatus for operating a primary furnace. 2,167,596; July 25.
Victor, Joseph B., Oak Park, assignor to Victor Manufacturing & Gasket Company, Chicago, Ill. Grease retainer with unitary diaphragms and supports. 2,167,603; July 25.
Victor Manufacturing & Gasket Company. (See Victor, Joseph B., assignor.)
Vienneau, Jacob J., Pittsfield, Mass., assignor to General Electric Company. Making flanged cylinders. 2,167,539; July 25.
Vietti, William V., Houston, Tex., assignor to The Texas Company, New York, N. Y. Screening wells. 2,167,190; July 25.
Vietti, William V., and J. K. Butler, Houston, Tex., assignors to The Texas Company, New York, N. Y. Method and apparatus for screening wells. 2,167,191; July 25.
Voigtlander & Sohn Aktiengesellschaft. (See Armbruster, Eugen, assignor.)
Von Antropoff, Andreas, and J. Friedrichsen, assignors to the firm of Carl Blank, K. G., Bonn-on-the-Rhine, Germany. Manufacture of polysulphides of organic bases and of their solutions. 2,167,319; July 25.
Vondracek, Frank J., assignor of one-tenth to F. Kubias and one-tenth to E. Kosek, Cedar Rapids, Iowa. Mower. 2,167,130; July 25.
Von Hofe, George W., Bound Brook, assignor to New Jersey Machine Corporation, Hoboken, N. J. Labeling machine. 2,167,468; July 25.
Waage, John J., assignor to Globe Slicing Machine Company, New York, N. Y. Slicing machine. 2,167,015; July 25.
Weaver, Myron A., Rye, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cross-talk reduction. 2,167,016; July 25.
Wagner Electric Corporation. (See Freeman, W. R., Dick, and Boldt, assignors.)

Wagner, Robert L., Niagara Falls, N. Y., assignor to Oxweld Acetylene Company. Apparatus for increasing efficiency of gas cutting operations. 2,167,399; July 25.

Waite, Carlton K. (See Wells, W. O., and Waite.)

Wallin, Carl G., Stockholm, Sweden. Steam plant. 2,167,469; July 25.

Wallis, Albert E. (See Harrison, C. F. R., and Wallis.)

Walsh, Maurice F. (See Field, B., and Walsh.)

Warner, Laurice L., Leeds, Ala., assignor to The Silex Company. Automatic controller for coffee makers. 2,167,255; July 25.

Webb, Benjamin F., Weston, W. Va. Clean-out closure for toilet bowls. 2,167,597; July 25.

Weber, Theodore R., Latrobe, Pa., assignor to American Locomotive Company, New York, N. Y. Leaf spring. 2,167,598; July 25.

Weber, William C., assignor of one-half to Standard Roofing Company, Birmingham, Ala. Shingle. 2,167,192; July 25.

Webster Electric Company. (See Dally, Roy, assignor.)

Weidenborner, Frank F., Scarsdale, assignor to The Guardian Life Insurance Company of America, New York, N. Y. Mask device. 2,167,131; July 25.

Weiss, Max M., and I. Benjamins, Brooklyn, N. Y. Automatic nose-dive rectifying device for airplanes. 2,167,256; July 25.

Weisz, Rezsö, Budapest, assignor to the firm Chinoin Gyogyszer Es Vegyészeti Termékek Gyara R. T. (Dr. Kereszty & Dr. Wolf), Ujpest, Hungary. Preparation of derivatives of estradiol. 2,167,132; July 25.

Wells Lamont Smith Corp. (See Wells, W. O., and Waite, assignors.)

Wells, Walter T., Glendale, assignor, by mesne assignments, to Lane-Wells Company, Los Angeles, Calif. Strand-carried multiple conductor wire rope. 2,167,098; July 25.

Wells, William O., Evanston, Ill., and C. K. Waite, Louisiana, Mo., assignors to Wells Lamont Smith Corp., Chicago, Ill. Fabric dress glove. 2,167,226; July 25.

Welsh, Robert D., Los Angeles, Calif. Filtering funnel. 2,166,980; July 25.

Welsh, Ulysses S. G., New York, N. Y. Dishwashing machine. 2,167,540; July 25.

Werfelman, George H. (See Quick, Roy T., assignor.)

Wessborg, Eric S., and W. J. Morrison, Saginaw, Mich., assignors to The State of Michigan as represented by the Attorney General. Loom. 2,167,193; July 25.

West, Lloyd L., assignor of forty-nine per cent to J. B. McKay, Wichita, Kans. Automatic collator. 2,167,470; July 25.

Western Cartridge Company. (See Kopp, Walter R., assignor.)

Western Electric Company. (See Manthorne, William H., assignor.)

Western Electric Company. (See Rosendale, Robert W., assignor.)

Westheimer, Max A., New York, N. Y. Rubber sole for sandals. 2,167,035; July 25.

Westinghouse Electric & Manufacturing Company. (See Alsing, Carl F., assignor.)

Westinghouse Electric & Manufacturing Company. (See Cosgrove, Raymond C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Dickinson, Robert C., assignor.)

Westinghouse Electric & Manufacturing Company. (See Morgan, John G., assignor.)

Westinghouse Electric & Manufacturing Company. (See Wolfert, Edward R., assignor.)

Wetzig, Ernest L., Clint, Tex. Fruit picker. 2,167,133; July 25.

Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Two-terminal low-pass coupling system. 2,167,136; July 25.

Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Two-terminal band-pass coupling system. 2,167,137; July 25.

Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Wide band coupling system. 2,167,134; July 25.

Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Wide band coupling system. 2,167,135; July 25.

Wheeler, Walter H., Jr., assignor to Pitney-Bowes Postage Meter Co., Stamford, Conn. Moistening device. 2,167,257; July 25.

White, John F., Bloomington, Ill. Buffing wheel. 2,167,059; July 25.

Whitlock, Kenneth E., Detroit, Mich., assignor, by mesne assignments, to Refrigerated Air Conditioning Corporation. Air cooling apparatus. 2,167,380; July 25.

Whittier, Charlton P. (See Hohl, J., and Whittier.)

Whittier, Earle O. (See Gould, S. P., and Whittier.)

Wick, Georg, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Shaping polyvinylchloride. 2,167,441; July 25.

Wiczevich, Peter J., New York, N. Y., and R. Rosen, Elizabeth, N. J.; said Wiczevich by judicial change of name to P. J. Gaylor; assignors to Standard Oil Development Company. Esterifying polymerized olefines. 2,166,981; July 25.

Wikle, George F., Detroit, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Apparatus for slitting tire treads. 2,167,017; July 25.

Willard, Louis E., assignor of fifty-one per cent to J. M. Hanford, Dallas, Tex. Testing machine for shock absorbers and the like. 2,167,429; July 25.

Williams, Alfred O., assignor to Clark Equipment Company, Battle Creek, Mich. Motor mounting means. 2,167,164; July 25.

Williams, Duncan B., Glen Ridge, N. J., assignor to The United Gas Improvement Company. Treatment of gas distribution systems. 2,167,138; July 25.

Williams, Duncan B., Glen Ridge, N. J., assignor to The United Gas Improvement Company. Treatment of gas distribution systems. 2,167,140; July 25.

Williams, Duncan B., Glen Ridge, N. J., assignor to The United Gas Improvement Company. Treatment of gas distribution systems. 2,167,141; July 25.

Willis, Le Roy W., Stamford, Conn., assignor to Intertype Corporation, Brooklyn, N. Y. Metal pot for slug casting machines. 2,167,616; July 25.

Willock, David B., Kansas City, Mo. Key duplicator. 2,167,341; July 25.

Wilson, George E., Salt Lake City, Utah. Sanitary fountain. 2,166,982; July 25.

Wilson, John M., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Relay circuit. 2,167,227; July 25.

Wilson-Jones Company. (See Buenger, E. F., and Bacon, assignors.)

Wilson-Jones Company. (See Unger, P. O., and Talmage.)

Wilson, Wylie G., Elizabeth, assignor to Everlasting Valve Company, Jersey City, N. J. Coupling. 2,167,258; July 25.

Wimmersperg, Heinrich, Vienna, Austria. Firearm. 2,167,495; July 25.

Winkelmann, Herbert A., and E. W. Moffett, Chicago, Ill., assignors to Marbon Corporation. Rubber hydrohalide-salicylic acid ester compositions. 2,167,381; July 25.

Winthrop Chemical Company. (See Eisleb, Otto, assignor.)

Wintritz, George, Staten Island, N. Y., and F. Ulrich, assignors to Conmar Products Corporation, Bayonne, N. J. Counter. 2,167,259; July 25.

Witter, Leon A., Parma, Ohio. Piston skirt expander. 2,167,287; July 25.

Wolfert, Edward R., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,167,018; July 25.

Wolfson, Sidney L. (See Cuno, C. H., and Wolfson.)

Wood, Gar, Industries, Inc. (See Hatch, Ronald K., assignor.)

Wood, Leonora, assignor of one-tenth to K. Ellis, Los Angeles, Calif. Scarf and headwear. 2,167,228; July 25.

Wooddell, Charles E. (See Benner, R. C., Wooddell, and Nelson.)

Woodward, Clement A., Roslindale, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Lamp socket device. 2,167,270; July 25.

Worthington Pump and Machinery Corporation. (See Paullin, Edward M., Jr.)

Wright, Sumner B. (See Schott, L., and Wright.)

Wyrick, Clayton E., Wyandotte, Mich., assignor to The Egry Register Company, Dayton, Ohio. Autographic register. 2,167,165; July 25.

Yabe, Shigeru, Nishiyodogawaku, Osaka, Japan. Air hammer. 2,167,320; July 25.

Yale & Towne Mfg. Co., The. (See Heyer, Frederic K., assignor.)

Yale & Towne Manufacturing Company, The. (See Ulinski, Bronislaus, assignor.)

Yanits, Rudolph R., Youngstown, Pa. Car coupling tool. 2,167,599; July 25.

Yeakel, Walter C. (See Dunham, E. J., and Yeakel.)

York, William H., Newark, N. J. Folding table. 2,167,342; July 25.

Yost, Lloyd, Wilmette, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis. Automatic clutch for drilling apparatus. 2,167,019; July 25.

Young, William R., Fairfield, Conn., assignor to General Electric Company. Cord reel for electric plug caps. 2,167,541; July 25.

Zerbe, Frederick K. (See Needham, H. H., and Zerbe.)

Zwilgmeyer, Frithjof, Arden, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes. 2,167,142; July 25.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Acoustic device. R. J. Emmert. Re. 21,159; July 25.

Antenna system. J. W. Alexander and H. Rinia. Re. 21,157; July 25.

Apparatus for lining pipes with cementitious material. W. T. Tate. Re. 21,164; July 25.

Carton, Collapsible. W. P. Frankenstein. Re. 21,158; July 25.

Combine. A. Korsmo and M. Ronning. Re. 21,161; July 25.

Golf club shafts, Rebound check for. A. E. Lard. Re. 21,162; July 25.

Lubricating feeder system, Reversible. D. R. Hillis. Re. 21,160; July 25.

Stem for electron discharge devices. G. M. Rose, Jr. Re. 21,163; July 25.

Wheel, Abrasive. E. H. Van der Pyl. Re. 21,165; July 25.

LIST OF DESIGN INVENTIONS

Airplane. F. E. Loudy. 115,854; July 25.

Brassière or similar article. G. A. Kaufmann. 115,896; July 25.

Brooch or similar article. A. Katz. 115,852; July 25.

Brush back or similar article. N. S. Whiting. 115,864; July 25.

Burner for a gas range, Oven. J. F. Hennessy. 115,880; July 25.

Carbonator. E. A. Arnold. 115,827; July 25.

Case, Carrying. G. Wenger. 115,862; July 25.

Casing, Double paper plate. J. G. Deynzer. 115,876; July 25.

Chain. E. Augenstein. 115,843; July 25.

Chair. W. Prokosch. 115,838; July 25.

Coat. D. Kaplan. 115,894–5; July 25.

Coat. H. Zuckerman. 115,900; July 25.

Container for toilet articles or the like. W. B. Petzold. 115,837; July 25.

Container, Measuring. H. B. Kaempf. 115,831; July 25.

Desk and bookcase, Combined. I. Greenfield. 115,850; July 25.

Dress. H. Bayor. 115,887; July 25.

Dress. A. Engel. 115,889–90; July 25.

Dress. R. Feintuck. 115,891; July 25.

Dress. M. Z. Russell. 115,898; July 25.

Dress ensemble. A. Engle. 115,888; July 25.

Dress, Uniform. D. Jacobs. 115,892–3; July 25.

Envelope-moistener or the like. A. P. Krueger. 115,869; July 25.

Extractor or the like, Fruit juice. R. Zurawin. 115,885; July 25.

Game board. J. J. Majl. 115,836; July 25.

Game device, Baseball. H. K. Surbeck. 115,860; July 25.

Garment, Foundation. J. Abeles. 115,886; July 25.

Glove. S. Starr. 115,899; July 25.

Goggle. S. E. Bouchard. 115,877; July 25.

Hat. A. C. Moran. 115,897; July 25.

Holder and cover, Combined perfume. F. N. Lewis. 115,881; July 25.

Jug. B. D. Fuerst. 116,848; July 25.

Lamp, Fender direction signal. W. F. Terry. 115,861; July 25.

Lamp for motor vehicles, Combination clearance and side marker. G. F. Burgess. 115,844; July 25.

Mantelpiece-ornament or similar article. I. Defren. 115,846–7; July 25.

Mirror. S. Silverman. 115,839; July 25.

Mirror back or similar article. R. Conant. 115,845; July 25.

Mirror back or similar article. N. S. Whiting. 115,863; July 25.

Nail, Decorative. J. Keller. 115,853; July 25.

Pen point. S. E. Longmaid. 115,868; July 25.

Pitcher and cover therefor, Combined. R. E. Kruck. 115,833; July 25.

Pitcher or article of similar nature, Glass cream. F. S. Barbiers. 115,828; July 25.

Placard, Changeable order. M. A. Blitzer. 115,829; July 25.

Plate or similar article. A. M. Walker. 115,840; July 25.

Rack, Hat. F. Jacobius. 115,870; July 25.

Rack or similar article, Detachable towel. R. S. Sanford. 115,856; July 25.

Recorder chart hub. N. J. Smith. 115,859; July 25.

Reel, Fishing. J. R. and H. Young. 115,841; July 25.

Sadiron, Steam generating electric. B. Altman and P. Stiller. 115,842; July 25.

Shelf, Window. R. M. Koch. 115,832; July 25.

Shoe. J. R. Sutton. 115,866–7; July 25.

Shoe or similar article. N. Elkin. 115,874–5; July 25.

Shoe or similar article. S. A. Wood. 115,865; July 25.

Slipper. I. Berman. 115,878; July 25.

Slipper. L. J. Epstein. 115,872–3; July 25.

Slipper. R. E. Frederick. 115,871; July 25.

Spray gun or similar article. E. Worthington. 115,883–4; July 25.

Switch, Push button. T. J. Scofield. 115,857; July 25.

Tire. L. J. Lambourn. 115,834; July 25.

Tire, Automobile. H. C. Hower. 115,851; July 25.

Tire, Pneumatic. R. S. Lombard. 115,835; July 25.

Typographical trimming machine. G. F. Morrison and H. J. Tapper. 115,882; July 25.

Vending machine, Bottle. J. E. Hagstrom. 115,830; July 25.

Washing machine. M. P. Gaultier and M. L. Alexander. 115,879; July 25.

Welding tip, Multiple flame. M. R. Scott. 115,858; July 25.

Wreath, Metallized funeral. W. L. Mallett. 115,855; July 25.

Wringer head. A. H. Gerhardt. 115,849; July 25.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 25TH DAY OF JULY, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading element. F. Postma. 2,167,312; July 25.
Abrasive supporting pad. R. C. Benner, C. E. Wooddell, and C. S. Nelson. 2,167,037; July 25.
Acid ester compositions, Rubber hydrohalide-salicylic. H. A. Winkelmann and E. W. Moffett. 2,167,381; July 25.
Acoustical device. E. H. Schwencke. 2,167,377; July 25.
Aerial. T. O. Theobald. 2,167,286; July 25.
Agents of capillary activity. A. Steindorff, G. Balle, P. Heimke, and K. Horst. 2,167,325–6; July 25.
Agitator for washing machines. J. C. Nelson. 2,167,218; July 25.
Air brake. L. A. Safford. 2,167,057; July 25.
Air cooling apparatus. K. E. Whitlock. 2,167,380; July 25.
Air filter lint screen. A. Nutting. 2,167,283; July 25.
Air vent valve. G. B. Duffield. 2,167,433; July 25.
Aircraft. R. J. Thompson. 2,167,143; July 25.
Aircraft, Measuring the altitude of. M. Baesecke. 2,167,412; July 25.
Aircraft turret. F. Amiot. 2,167,561; July 25.
Airfoil. W. K. Rose. 2,167,601; July 25.
Alkylene oxide-tannic acid reaction product. K. M. Herstein. 2,167,073; July 25.
Alloy cast iron. E. A. Jones and A. H. Dierker. 2,167,301; July 25.
Aluminum compounds, Manufacture of very pure. N. Griunsteinas. 2,167,238; July 25.
Amines, Production of. W. Schmidt and K. Huttner. 2,166,971; July 25.
Ammonium nitrate, Manufacture of. D. A. Rogers and C. W. Brown. 2,167,464; July 25.
Amplifier system, Intermediate frequency. W. L. Carlson. 2,167,605; July 25.
Anhydride, Distilling organic acid. J. Lösch. 2,166,997; July 25.
Antigenic polysaccharide complex. P. Masucci. 2,166,963; July 25.
Antislipping device. F. O. Lawson. 2,166,958; July 25.
Apparatus for controlling the operation of internal combustion engines of the multicylinder type. K. W. Rohlin. 2,166,968; July 25.
Apparatus for establishing an artificial horizon. H. Langgässer. 2,167,422; July 25.
Apparatus for increasing efficiency of gas cutting operations. R. L. Wagner. 2,167,399; July 25.
Apparatus for materials testing, Rate of load control. A. H. Emery. 2,167,332; July 25.
Apparatus for locating concealed conductive bodies. T. Ryan. 2,167,490; July 25.
Apparatus for producing musical sounds. A. N. Gardiner. 2,167,600; July 25.
Apparel, Wearing. F. Eaton. 2,167,350; July 25.
Article feeding apparatus. G. A. Maurath and H. D. Leverett. 2,167,049; July 25.
Articles, Apparatus for forming molded. A. McDonald. 2,167,392; July 25.
Articles, Banding. H. R. Schutz. 2,167,589; July 25.
Artificial lure. J. H. Hayes. 2,167,335; July 25.
Arylides, Sulphonated. L. H. Flett. 2,166,949; July 25.
Attachment for rib-knitting machines, Loop-cutting. C. E. Spicher and F. W. Robinson. 2,167,534; July 25.
Attenuator, Variable. E. L. Gove. 2,167,237; July 25.
Axle housing and making same. W. E. Schirmer. 2,167,088; July 25.
Bait, Artificial. J. H. Hayes. 2,167,334; July 25.
Bait, Artificial fish. H. C. Toepper. 2,167,163; July 25.
Baking mold. J. Damon. 2,167,038; July 25.
Band pass filter. V. D. Landon. 2,167,079; July 25.
Bar: *See*—
  Bus bar.
Baths, Supervision of the uniformity of galvanic. G. Kloz. 2,167,304; July 25.
Beam stop, Automatic. H. A. Hadley. 2,167,204; July 25.
Bearing housing support. A. Leufén. 2,167,457; July 25.
Belt. A. L. Freedlander. 2,167,384; July 25.
Beverage dispensing apparatus. F. W. and C. L. Holderle. 2,167,547; July 25.
Beverage dispensing apparatus. J. L. Norton. 2,167,309; July 25.
Binding, Ski. R. Van Brunt. 2,166,979; July 25.
Biscuit molding machine. O. Kremmling. 2,167,388; July 25.
Block: *See*—
  Wire block.
Bodies on vehicles, Mechanism for holding demountable. B. F. Fitch. 2,166,948; July 25.
Bolt rethreader. L. J. Knettle. 2,166,957; July 25.
Bolt, Self-tapping. R. H. Upson. 2,167,538; July 25.

Booth and drier, Revolving spray. J. H. Beier. 2,167,567; July 25.
Bottle breaker. L. S. Farner, H. L. Beals, and A. A. Haladik. 2,167,040; July 25.
Bottle closure and liquid dispenser, Combined. B. Diefenbach. 2,167,476; July 25.
Bottle testing apparatus. F. W. Preston. 2,167,185; July 25.
Box: *See*—
  Electric meter box. Wire bound box.
Box. R. J. Byers. 2,167,329; July 25.
Bracket: *See*—
  Rayon spinning machine funnel bracket.
Bracket. W. E. Hull. 2,167,046; July 25.
Bracket for cylindrical vessels, Supporting. E. H. Nilson and F. A. Carstens. 2,167,000; July 25.
Brake: *See*—
  Air brake. Transmission brake.
  Hydraulic brake.
Brake. G. M. Fitts. 2,167,297; July 25.
Brake. A. J. Musselman. 2,167,551; July 25.
Brake mechanism. H. W. Alden. 2,167,607; July 25.
Braking, System of dynamic. E. D. Schneider. 2,167,330; July 25.
Brick and wall, Building. B. Roman. 2,167,187; July 25.
Brush. W. A. Sleeper. 2,167,129; July 25.
Brush and scraper, Combined. J. E. Bothum. 2,167,196; July 25.
Brush, Fountain. K. Reichenbach. 2,167,523; July 25.
Buffer, Drill-pipe. W. I. Bettis. 2,166,937; July 25.
Buffing wheel. J. F. White. 2,167,059; July 25.
Bulldozer. G. S. Allin. 2,167,166; July 25.
Burner: *See*—
  Gas burner. Liquid fuel burner.
Bus bar, Ventilated. R. W. Shoemaker and H. C. Daniels. 2,167,378; July 25.
Cabinet. R. W. Rosendale. 2,167,525; July 25.
Cabinet. P. O. Unger and J. H. Talmage. 2,167,013; July 25.
Cable: *See*—
  Gas insulated cable. High-frequency cable.
Calcium carbonate, Calcining finely divided. T. E. Lloyd. 2,167,120; July 25.
Camera built integral with an electric exposure meter, Photographic. O. Riszdorfer. 2,167,053; July 25.
Camera mechanism having correlated range and view finder. E. S. Hineline. 2,167,436; July 25.
Can-coating machine. F. Eberhart. 2,166,945; July 25.
Cap: *See*—
  Hub cap.
Cap remover. L. Sheldon. 2,166,972; July 25.
Car: *See*—
  Motor car. Railway hopper car.
  Open top car.
Car construction. D. Hindahl. 2,167,362; July 25.
Car coupling tool. R. R. Yanits. 2,167,599; July 25.
Carbon shifter, Motorized. J. Q. Sherman, A. W. Metzner, and A. A. Gopperton. 2,166,973; July 25.
Carburetor. R. F. Bracke. 2,167,497; July 25.
Carrier: *See*—
  Sample carrier.
Carrier operating mechanism for flat knitting machines. F. C. Good. 2,167,478; July 25.
Casing for internal combustion engine locomotives, Transmission. W. F. Eckert. 2,167,065; July 25.
Casket construction. D. Oppenheim. 2,167,001; July 25.
Cast cutter. E. J. Johnson. 2,167,212; July 25.
Cathode device, Liquid. L. D. Miles. 2,167,521; July 25.
Cathode ray tube deflecting device. W. A. Tolson. 2,167,379; July 25.
Cellulosic material and making same. D. E. Drew. 2,167,105; July 25.
Cement concrete, Manufacturing. A. B. C. Dahlberg. 2,167,200; July 25.
Cementitious compositions and articles, Process for producing aerated. C. G. F. Cavadino. 2,167,606; July 25.
Centrifugal advance mechanism. M. Mallory. 2,167,366; July 25.
Chemical process. I. Gubelmann. 2,167,067; July 25.
Cigar and forming the same, Tipped. H. A. Burns. 2,167,170; July 25.
Cigarette tipper. J. W. Leary. 2,167,119; July 25.
Circuit: *See*—
  Control circuit. Relay circuit.
  Receiving circuit. Transmission circuit.
Circuit closer for use in a signaling device for motor vehicles. W. Pitt. 2,167,031; July 25.

Circuit detector network, Degenerative plate. P. O. Farnham. 2,167,024; July 25.
Circuits, Electrical oscillatory. H. Jacobs. 2,167,512; July 25.
Circuits, Electroresponsive. W. E. Birchard. 2,167,473; July 25.
Clay gels, Increasing the strength of lentonitic. W. B. Hirschmann. 2,167,455; July 25.
Clay working machine. F. M. Kinnard. 2,167,386; July 25.
Clip: *See*—
  Supporter clip.
Clip and installation thereof, Bumper. J. A. Bumpus and C. S. Christiansen. 2,167,263; July 25.
Clip and mirror, Illuminated watch. S. J. Goldin. 2,167,109; July 25.
Clock, Illuminated. R. G. Regester. 2,167,463; July 25.
Closure for coal cars. H. Kundert. 2,167,306; July 25.
Closure for toilet bowls, Clean-out. B. F. Webb. 2,167,597; July 25.
Clutch and brake control mechanism. W. R. Freeman, B. Dick, and W. F. Boldt. 2,167,501; July 25.
Clutch control. A. H. Lanser. 2,167,118; July 25.
Clutch for drilling apparatus, Automatic. L. Yost. 2,167,019; July 25.
Clutch mechanism. W. Rocke. 2,167,373; July 25.
Coal with subsequent coking thereof, Preliminary oxidation of caking. L. P. J. M. Bénézech. 2,167,100; July 25.
Coating, Protective. A. Stenson. 2,167,317; July 25.
Coffee, Treating. C. E. Page. 2,167,085; July 25.
Collector, Automatic. L. L. West. 2,167,470; July 25.
Colorimeter. F. Assmus. 2,167,060; July 25.
Column, Fractionating. S. A. Guerrieri. 2,167,025; July 25.
Combiantion lock. F. K. Heyer. 2,167,205; July 25.
Commutator. M. R. Hanna. 2,167,479; July 25.
Composition and product, Moldable. W. Röhrs. 2,167,313; July 25.
Composition of matter. R. W. Barton and W. M. Cox, Jr. 2,167,144; July 25.
Compounding system and suspension for weighing and testing machines. I. H. Hobson and C. A. Britton. 2,167,075; July 25.
Compressor, Variable capacity. E. M. Paullin, Jr. 2,167,369; July 25.
Concrete, Preparing. M. A. Morrissey and A. F. Moore. 2,167,156; July 25.
Condenser. F. J. McGovern. 2,167,028; July 25.
Condenser and producing same, Electrolytic. D. E. Gray. 2,166,990; July 25.
Condensing agents, Recovering. A. H. Gleason. 2,167,358; July 25.
Confection. N. Frediani. 2,167,353; July 25.
Connecting device, Electrical. L. W. Cole and C. I. Smith. 2,167,608; July 25.
Connector: *See*—
  Separable connector.
Container: *See*—
  Dispensing container. Liquid dispensing container.
  Grease container.
Control device for vehicles, Automatic. K. Jann and H. Roland. 2,167,421; July 25.
Contraction joint. A. Carnie. 2,167,199; July 25.
Control apparatus for airplanes. P. E. Koster. 2,167,077; July 25.
Control attachment for automobiles, Dual. W. Stack. 2,166,978; July 25.
Control circuit, Electrical. H. Belar. 2,167,062; July 25.
Control mechanism. R. Avigdor. 2,167,230; July 25.
Controller for coffee makers, Automatic. L. L. Warner. 2,167,255; July 25.
Conveyer and distributor, Container. C. N. Bergmann. 2,167,343; July 25.
Conveyers, Propulsion mechanism for. C. G. Joa. 2,167,179; July 25.
Cooling of cylindrical bodies. R. S. Gorman and R. E. Graham. 2,167,504; July 25.
Cord reel for electric plug caps. W. R. Young. 2,167,541; July 25.
Cord take-up, Telephone. J. T. Hellman. 2,167,571; July 25.
Core ring coupling, Interrupted. N. L. Alison. 2,167,382; July 25.
Cottonseed, Apparatus for treating. H. O. Shields. 2,166,974; July 25.
Couch, Studio. M. Fox. 2,167,175; July 25.
Counter. G. Wintritz and F. Ulrich. 2,167,259; July 25.
Coupler structure. E. P. Kinne and E. J. Greenawalt. 2,167,613; July 25.
Coupling: *See*—
  Core ring coupling.
Coupling. W. G. Wilson. 2,167,258; July 25.
Coupling and support, Trailer. A. Claud-Mantle. 2,167,520; July 25.
Coupling system, Two-terminal band-pass. H. A. Wheeler. 2,167,137; July 25.
Coupling system, Wide band. H. A. Wheeler. 2,167,134–5; July 25.
Cover dispenser, Toilet seat. W. G. Lemmon and A. Stowers. 2,166,996; July 25.
Cover for toilet seat covers. M. H. Rowe. 2,167,587; July 25.
Crane, Power swing. R. K. Hatch. 2,167,026; July 25.
Crankshafts, Abrading. F. Postma. 2,167,311; July 25.
Cross-talk reduction. M. A. Weaver. 2,167,016; July 25.
Cup, Sputum. K. C. Hamilton. 2,167,111; July 25.
Curler, Hair. J. Coggans. 2,167,446; July 25.
Cushion support. M. M. Kohlstadt. 2,167,178; July 25.
Cutter: *See*—
  Cast cutter. Tenon cutter.
Cylinder head and making the same. J. Tjaarda. 2,167,093; July 25.
Cylinders, Making flanged. J. J. Vienneau. 2,167,539; July 25.
Demodulating device. H. Rothe and R. Urtel. 2,167,033; July 25.
Device for holding cigarettes and cigars. M. Poege. 2,167,586; July 25.
Device for the continuous determination and recording of the cant of a railway track. A. E. Mauzin. 2,167,081; July 25.
Diffuser of vaporous liquids. A. T. Rooch. 2,166,969; July 25.
Direction finding system. G. Guanella. 2,166,991; July 25.
Discharge device. E. Germer. 2,166,951; July 25.
Diseases, Treating periodontal. J. L. Sisson. 2,167,467; July 25.
Disk operating mechanism, Sector. N. H. Fayerweather. 2,166,947; July 25.
Dispenser: *See*—
  Cover dispenser.
Dispensing container. J. Hohl and C. P. Whittier. 2,167,437; July 25.
Dispensing device for hairpins and the like. S. Katz. 2,167,241; July 25.
Disconnecting switch. R. C. Dickinson. 2,167,499; July 25.
Dishwashing machine. U. S. G. Welsh. 2,167,540; July 25.
Display stand. H. Brownstein. 2,167,198; July 25.
Distilling. U. S. Jenkins. 2,167,211; July 25.
Ditch cutting device. R. Dornfeld and K. Haage. 2,167,500; July 25.
Door check with tension contrivance and mechanical brake, Automatic. W. Schmidt. 2,167,409; July 25.
Door-checking and door-holding device, Combined. R. I. Schonitzer. 2,166,970; July 25.
Door for bake ovens. P. Jackson and A. B. Cady. 2,167,047; July 25.
Door latch. H. J. Stratman. 2,167,594; July 25.
Door mounting. E. H. and W. B. Graves. 2,167,569; July 25.
Doors, Weatherproofing structure for. D. H. Harnly. 2,166,993; July 25.
Draft regulator. C. H. Morrow. 2,167,182; July 25.
Draft regulator for combustion apparatus. L. Monney. 2,167,307; July 25.
Drag and harrow, Combination. J. Sayen. 2,167,262; July 25.
Drain fitting and production thereof. A. C. Recker. 2,167,372; July 25.
Drier felt for paper machines. W. A. Barrell. 2,167,542; July 25.
Drill: *See*—
  Electrician's drill.
Drill holes, Apparatus for deflecting. A. Anderson. 2,167,194; July 25.
Drilling method and means, Pneumatic. D. J. Muncy. 2,167,393; July 25.
Drive mechanism for lock seam soldering attachments. A. M. Cameron. 2,167,330; July 25.
Drive mechanism for locomotives or other vehicles, engines, or machinery. M. H. P. Sologaistra. 2,166,976; July 25.
Dual drum mixer. E. H. Lichtenberg and O. Sheck. 2,167,243; July 25.
Duplicator, Flat type. M. S. Hansen. 2,166,992; July 25.
Dust collector for drills. J. H. Schemel. 2,167,220; July 25.
Dyes, Azo. F. Zwilgmeyer. 2,167,142; July 25.
Dyestuff of the anthraquinone series and producing the same, Vat. D. P. Graham. 2,167,434; July 25.
Dynamo-electric machine. M. R. Hanna. 2,167,360; July 25.
Dynamo-electric machine. S. A. Moss. 2,167,487; July 25.
Electric furnace. T. D. Kelly. 2,167,575; July 25.
Electric heater. C. Sykes and W. Needham. 2,167,494; July 25.
Electric lamp, Combination. B. R. Lieberman. 2,167,458; July 25.
Electric meter. M. E. Nulsen and L. R. Goetz. 2,167,083; July 25.
Electric meter box. H. Heanes. 2,167,419; July 25.
Electric potential converter and circuits therefor. M. E. Nulsen and D. H. Mitchell. 2,167,084; July 25.
Electric separating filter. H. Nitz. 2,167,522; July 25.
Electric switch. G. H. Bugenhagen. 2,167,543; July 25.
Electrician's drill. A. Hirsch. 2,167,153; July 25.
Electrodes in automatic electric arc welding, Connecting the. G. Erber. 2,167,565; July 25.

Electromagnetically operated switch. E. Rozumek. 2,167,588; July 25.
Electromechanical system. E. Lakatos. 2,167,078; July 25.
Electron discharge device. W. H. Manthorne. 2,167,519; July 25.
Electron discharge device, Secondary. A. J. W. M. van Overbeek and E. H. Lopp. 2,167,097; July 25.
Electron tube. W. Dällenbach. 2,167,201; July 25.
Electronic discharge tube. A. Katsch. 2,167,515; July 25.
Elongation gauge and method. E. B. Hudson. 2,167,548; July 25.
Engine: *See*—
Internal combustion engine. Two-stroke engine.
Envelope, Preaddressed. E. C. Sauerman. 2,167,005; July 25.
Eraser, Automatic blackboard. G. C. Farmer. 2,167,296; July 25.
Ergosterol, Producing crystalline. W. A. Carlson. 2,167,272; July 25.
Esters of aliphatic alcohols, Preparation of acetoacetic. A. B. Boese, Jr. 2,167,168; July 25.
Esters, Phthalic acid. J. B. Tuttle. 2,166,934; July 25.
Evaporator, Sheet-metal. D. P. Heath. 2,166,953; July 25.
Exhaust device for internal combustion engines. M. Kadenacy. 2,167,303; July 25.
Fabric for airplane wings, Stiffened. W. M. Billing. 2,167,414; July 25.
Fabrics and product thereof, Treatment of. C. Dreyfus. 2,167,234; July 25.
Face protector. R. Malcom. 2,167,580; July 25.
Facsimile reproducing device. R. E. Mathes. 2,167,460; July 25.
Fan, Electric. P. J. Fitzgerald. 2,166,987; July 25.
Fastener-applying implements, Method and means for adjusting the parts of. J. F. Cavanagh. 2,167,331; July 25.
Fasteners, Apparatus for attaching paper. E. F. Buenger and E. W. Bacon. 2,166,983; July 25.
Fats, oils, and proteins from animal and vegetable starting materials, and more particularly from waste products, Recovering. H. Haneschka. 2,167,043; July 25.
Feeder for pulverized materials. A. G. Carlson. 2,167,416; July 25.
Fiber. S. P. Gould and E. O. Whittier. 2,167,202; July 25.
Fiber product, Continuous production of ligno-cellulose. W. H. Mason. 2,167,440; July 25.
Fibrous materials, Apparatus for shredding alkali cellulose or like. A. Lasch and E. Eppler. 2,167,214; July 25.
Fidelity control. A. V. Loughren. 2,167,405; July 25.
File, Paper. R. C. Finch. 2,167,578; July 25.
Filler valve. G. L. N. Meyer. 2,167,123; July 25.
Filming machine. P. C. P. and R. G. Booty. 2,167,430; July 25.
Filter: *See*—
Band pass filter. Variable electric filter.
Electric separating filter.
Filter. W. H. Oliver. 2,167,159; July 25.
Filtering apparatus. C. H. Cuno and S. L. Wolfson. 2,167,322; July 25.
Filtering apparatus. G. A. Giesecler. 2,167,236; July 25.
Filtering medium for air filters. C. P. Hegan. 2,167,323; July 25.
Fire extinguishing foam apparatus. F. L. Boyd. 2,167,232; July 25.
Firearm. H. Wimmersperg. 2,167,495; July 25.
Fireproofing composition. M. Leatherman. 2,167,278; July 25.
Fish cutting and cleaning machine. A. L. Christiansen. 2,166,939; July 25.
Fixture, Display. H. J. Rubenstein. 2,167,375; July 25.
Flagstaff structure. A. B. Gardella. 2,167,579; July 25.
Floor or roof construction. M. G. Hilpert. 2,167,208; July 25.
Flow meter. R. Estep. 2,167,172; July 25.
Fluid circulating system. S. F. Shawhan and C. M. Ashley. 2,167,466; July 25.
Folding card table. K. O. Muehlberg. 2,167,158; July 25.
Folding table. W. H. York. 2,167,342; July 25.
Follow-up device. T. M. Berry. 2,167,484; July 25.
Footwear and making same. P. J. Costigan. 2,167,274; July 25.
Fork, Butter. N. Andros. 2,167,411; July 25.
Form, Dress display. J. D. Smith and P. B. McMillen. 2,167,161; July 25.
Fountain. E. G. Trowbridge. 2,167,055; July 25.
Fountain, Sanitary. G. E. Wilson. 2,166,982; July 25.
Fractionating apparatus. C. A. Thomas. 2,167,395; July 25.
Frame: *See*—
Furniture frame.
Photograph printing frame.
Fuel and improving same, Diesel. G. S. Crandall, R. C. Moran, and H. G. Berger. 2,167,345; July 25.
Fuel, Apparatus for producing a smokeless solid. L. P. J. M. Bénézech. 2,167,099; July 25.
Funnel, Filtering. R. D. Welsh. 2,166,980; July 25.
Furnace: *See*—
Electric furnace. Stoker furnace.
Furnace, Process and apparatus for operating a primary. F. K. Vial. 2,167,596; July 25.
Furnace roof ring, Electric. W. E. Moore. 2,166,964; July 25.
Furniture frame, Knock-down. E. A. Corbin, Jr. 2,166,941; July 25.
Fuse for rotative projectiles. E. W. Brandt. 2,167,197; July 25.
Game appliance and making. F. O. German and E. W. Hartley. 2,166,950; July 25.
Game device. R. E. Hilker. 2,167,074; July 25.
Game, Table marble. F. W. Falck. 2,167,352; July 25.
Gas burner. G. F. Naab and O. Lutherer. 2,167,183; July 25.
Gas distribution systems, Treatment of. D. B. Williams. 2,167,140–1; July 25.
Gas distribution systems, Treatment of. J. R. Skeen. 2,167,139; July 25.
Gas distribution systems, Treatment of. D. B. Williams. 2,167,138; July 25.
Gas insulated cable, High tension. H. M. Hobart. 2,167,510; July 25.
Gas reaction method. R. Auerbach. 2,167,471; July 25.
Gaskets, Making. J. G. Dickson. 2,167,475; July 25.
Gauge: *See*—
Tire gauge.
Gear of motor cars, Driving. R. Döme and P. Jaross. 2,167,295; July 25.
Gears, Finishing. J. C. Drader and J. D. Rovick. 2,167,146; July 25.
Generator: *See*—
Power generator. Steam generator.
Generators with low water content, Method and apparatus for preventing excess pressure increase in steam. O. H. Hartmann, and R. Loewenstein. 2,167,299; July 25.
Glass, Process and apparatus for the hardening of. G. P. Despret. 2,167,294; July 25.
Glass, Shaping. A. Verlay. 2,167,318; July 25.
Glassware, Apparatus for the manufacture of. L. Boudin. 2,167,290; July 25.
Glove, Fabric dress. W. O. Wells and C. K. Waite. 2,167,226; July 25.
Golf-scoring device. A. M. Bowzer. 2,167,271; July 25.
Granulation of nongranular materials. G. E. Cox and W. G. McBurney. 2,167,432; July 25.
Grease container. H. H. Roehm. 2,167,289; July 25.
Grease retainer with unitary diaphragms and supports. J. B. Victor. 2,167,603; July 25.
Grinding apparatus, Cam. H. A. Silven. 2,167,614; July 25.
Grinding machine steady rest. H. A. Silven. 2,167,615; July 25.
Grommet. W. E. Smith. 2,167,285; July 25.
Guard, Automobile bumper. J. J. Riehl. 2,167,186; July 25.
Guard, Safety. F. J. Catanzaro. 2,167,292; July 25.
Guide and check, Pump rod. G. E. Slaugenhop. 2,167,591; July 25.
Hair-curling device and process thereof. J. A. Kols. 2,167,387; July 25.
Hair rinsing preparation. R. R. Frew. 2,167,502; July 25.
Hairspring remover for watches and the like. W. V. Seward. 2,167,089; July 25.
Hammer, Air. S. Yabe. 2,167,320; July 25.
Hammer, Jacquard. H. V. Foster. 2,167,041; July 25.
Harvester, Peanut. A. E. Henderson. 2,167,044; July 25.
Heat exchanger. B. S. Foss. 2,167,333; July 25.
Heater: *See*—
Electric heater. Solar heater.
Heating, Method and apparatus for. H. H. Metcalf. 2,167,122; July 25.
Heating system, One pipe steam. H. F. McKeown. 2,167,336; July 25.
High-frequency cable. J. Türk. 2,167,538; July 25.
High-frequency transmitter. H. Hornung. 2,167,511; July 25.
High voltage X-ray tube. M. J. Gross and Z. J. Atlee. 2,167,275; July 25.
Hinge. A. J. Mulvaney. 2,167,585; July 25.
Hinge, Electrical appliance. F. L. Renga. 2,167,489; July 25.
Hobbing machine. B. R. Purvin. 2,167,267; July 25.
Holder: *See*—
License plate holder.
Holder, lifter, and scraper, Ice cream can. H. L. Milligan. 2,167,217; July 25.
Hold-down valve. S. L. Calvert. 2,167,415; July 25.
Hub cap. F. W. Burger. 2,167,101; July 25.
Hydraulic brake. M. L. Masteller. 2,166,962; July 25.
Hydrocarbon product, Making a solid bituminous. T. W. Pfirrmann. 2,167,250; July 25.
Hydrocarbons, Hydrogenation of cyclic. W. J. Sweeney. 2,167,339; July 25.
Hydrocarbons, Production of. M. Pier, W. Michael, and W. Jaeckh. 2,167,004; July 25.
Ignition device for engines. B. Svistounoff. 2,167,269; July 25.
Implement for topping of beets. M. J. Liuhto. 2,167,244; July 25.

Incandescent tubular lamp. E. Speilholz. 2,167,426; July 25.
Indicator: *See*—
Speed indicator.
Wheel and chassis alignment indicator.
Insulation, Method and system for testing high voltage. G. Keinath. 2,166,932; July 25.
Interlocking control apparatus. C. H. Lay. 2,167,027; July 25.
Internal combustion engine. H. A. Gehres. 2,166,930; July 25.
Iron: *See*—
Alloy cast iron. Soldering iron.
Irradiating device. M. J. Dorcas. 2,167,233; July 25.
Joint: *See*—
Contraction joint. Pavement joint.
Joint. W. A. Flumerfelt. 2,167,174; July 25.
Joint-closing member and making the same. E. M. Jenkins. 2,167,550; July 25.
Ketones and alcohols from olefins, Manufacture of. H. M. E. Guinot. 2,167,203; July 25.
Key duplicating machine. M. Shepse. 2,167,008; July 25.
Key duplicator. D. B. Willock. 2,167,341; July 25.
Keyboard for typewriting machines and other commercial machines. E. O. Haberfeld. 2,167,150; July 25.
Kit or the like, Manicure or sewing. S. S. Joslyn. 2,167,213; July 25.
Knife guide, Dobby. O. V. Payne. 2,167,052; July 25.
Knitting machine. K. R. Lieberknecht. 2,166,959; July 25.
Knitting machine, Warp stripe. R. H. Lawson and I. H. C. Green. 2,167,390; July 25.
Knitting machinery. J. Morton and W. L. C. Carter. 2,167,408; July 25.
Label. H. A. Kropp. 2,167,305; July 25.
Labeling machine. G. W. von Hofe. 2,167,468; July 25.
Lacquer and its preparation. F. Seebach. 2,167,127; July 25.
Lamp: *See*—
Electric lamp.
Incandescent tubular lamp.
Latch: *See*—
Door latch.
Latch mechanism. L. A. Roberts. 2,167,324; July 25.
Lavatory device. E. Henschler. 2,167,152; July 25.
Leaf spring. T. R. Weber. 2,167,598; July 25.
Lens, Compound reading. R. E. Fosdick. 2,166,988; July 25.
Leuco quinizarine, Preparing. E. Havas. 2,167,070; July 25.
License plate holder. S. L. Hogle. 2,166,994; July 25.
Lighting fixture. A. L. Arenberg. 2,167,383; July 25.
Lighting unit. P. D. Phillips. 2,167,184; July 25.
Lignin from natural cellulose compounds, Recovery of. J. G. Smull. 2,167,556; July 25.
Liner removing device. C. C. Brown. 2,167,445; July 25.
Link. J. J. Schoeninger. 2,167,491; July 25.
Liquid coating composition. C. Tobis. 2,167,537; July 25.
Liquid dispensing container. M. Feld. 2,167,448; July 25.
Liquid fuel burner. K. P. Brace and V. W. Kliesrath. 2,167,444; July 25.
Liquids, Apparatus for treating. G. Raymond. 2,167,160; July 25.
Load control, Automatic. I. E. McCabe. 2,167,155; July 25.
Load maintainer for materials testing apparatus. G. E. Beggs. 2,167,328; July 25.
Lock: *See*—
Combination lock.
Lock. L. W. Skobel. 2,167,009; July 25.
Lock for taxi-cabs, Fare protective shift gear. J. Laddaga. 2,167,260; July 25.
Lock keeper. R. Marple. 2,167,391; July 25.
Locomotive, Four cylinder. J. C. Maris. 2,167,216; July 25.
Loom. E. S. Wessborg and W. J. Morrison. 2,167,193; July 25.
Lubricant. M. A. Dietrich. 2,167,064; July 25.
Lubricant. G. Kaufman. 2,167,612; July 25.
Machine for attaching handle hangers. E. D. Hanset. 2,167,452; July 25.
Machine for bending wood sheets. V. R. Trabucco. 2,167,428; July 25.
Machine for shaping uppers over lasts. E. A. Bessom. 2,166,936; July 25.
Machine slideway. W. L. Dolle. 2,167,609; July 25.
Machine to cube steaks. A. Motrinec. 2,167,051; July 25.
Machine tool. J. Verderber. 2,167,189; July 25.
Magnet for organs. D. Marr. 2,167,407; July 25.
Magnet material. F. R. Hensel. 2,167,240; July 25.
Mask device. F. F. Weidenborner. 2,167,131; July 25.
Material, Making sheet. H. Heckel. 2,167,570; July 25.
Material, Granulation of nongranular. G. E. Cox and W. G. McBurney. 2,167,432; July 25.
Measuring electric energy, Apparatus for. D. Sciaky. 2,167,553; July 25.
Mechanical movement. M. H. P. Sologaiston. 2,166,975; July 25.
Mechanical relay apparatus. I. M. Stein. 2,167,010; July 25.
Metal articles, Making hard. J. H. L. De Bats and J. A. Ritz. 2,167,544; July 25.
Metal composition, Sintered hard. F. C. Kelley. 2,167,516; July 25.
Metals and alloys, Producing superficial carbonization of. E. W. Skelton. 2,167,128; July 25.
Meter: *See*—
Electric meter. Multirange meter.
Flow meter.
Mixer: *See*—
Dual drum mixer. Rotary mixer.
Model, House. F. Bolhuis. 2,167,169; July 25.
Moistening device. F. J. Rouan and F. C. Sova. 2,167,252; July 25.
Moistening device. W. H. Wheeler, Jr. 2,167,257; July 25.
Mold: *See*—
Baking mold.
Motion, Converting reciprocating into rotary. C. S. Sarkar. 2,167,314; July 25.
Motor car, Three-wheel. P. A. C. F. Van den Stock. 2,167,096; July 25.
Motor control system, Electric. H. C. Hastings and F. F. Usher. 2,167,481; July 25.
Motor mounting means. A. O. Williams. 2,167,164; July 25.
Mounting. H. G. Klemm. 2,167,577; July 25.
Mower. F. J. Vondracek. 2,167,130; July 25.
Mower, Lawn. F. L. Shelor. 2,167,222; July 25.
Mower, Tractor. C. F. Crumb and S. E. Hillblom. 2,166,942; July 25.
Mower, Tractor. C. R. Raney, R. D. MacDonald, and S. E. Hillblom. 2,166,967; July 25.
Multiplying machine. J. W. Bryce. 2,166,928; July 25.
Multirange meter. F. E. Terman. 2,167,162; July 25.
Musical instrument. E. Govoni. 2,167,359; July 25.
Musical instrument. H. A. McCord. 2,167,582; July 25.
Needle threader. W. S. Mason. 2,167,080; July 25.
Nickel carbonyl, Preparation of. C. F. R. Harrison and A. E. Wallis. 2,167,112; July 25.
Noise reduction system. W. R. Koch. 2,166,995; July 25.
Nose-dive rectifying device for airplanes, Automatic. M. M. Weiss and I. Benjamins. 2,167,256; July 25.
Nut tapping machine. H. Goldberg. 2,166,952; July 25.
Oil product, Vegetable. C. H. Haurand, R. H. Neal, and H. W. Vahlteich. 2,167,113; July 25.
Oil, Stabilized mineral. E. W. Cook. 2,167,273; July 25.
Oil, Sulphur cutting. G. Kaufman. 2,167,439; July 25.
Oils, Conversion of hydrocarbon. J. B. Held. 2,167,507; July 25.
Oils, Converting hydrocarbon. F. W. Sullivan, Jr. 2,166,933; July 25.
Oils, Improving drying properties of. T. S. Hodgins. 2,167,206; July 25.
Oils, Treatment of hydrocarbon. W. A. Schulze. 2,167,602; July 25.
Oils, Treatment of hydrocarbon. J. D. Seguy. 2,167,531; July 25.
Oiler, Automatic. M. W. Goldberg. 2,167,451; July 25.
Olefines, Esterifying polymerized. P. J. Wiezevich and R. Rosen. 2,166,981; July 25.
Open top car. J. J. Tatum. 2,167,427; July 25.
Optical system for color photography or cinematography. A. G. Hillman. 2,167,453–4; July 25.
Oscillator, Glow discharge. E. Bauer. 2,167,496; July 25.
Oven for heat treatment of shales, schists, sandstones, and the like. F. F. R. A. Gilles. 2,167,503; July 25.
Packing spacer. E. P. Sherman. 2,167,555; July 25.
Pad: *See*—
Abrasive supporting pad. Protective pad.
Pad for the protection and cleaning of ashtrays, Crunch. H. S. Sadtler. 2,167,261; July 25.
Paint, Casein. H. A. Scholz. 2,167,221; July 25.
Painting machine. S. Brand. 2,167,063; July 25.
Paper locking device, Recording. R. R. Chappell and R. B. Colt. 2,167,417; July 25.
Pavement joint. M. Nigro. 2,167,423; July 25.
Pencil. E. A. Sell. 2,167,465; July 25.
Petroleum emulsions, Breaking. M. De Groote, B. Keiser, and C. M. Blair, Jr. 2,167,346–9; July 25.
Petroleum suspensions, Breaking. S. K. Talley and C. L. Gutzeit. 2,167,327; July 25.
Phonograph. R. Dally. 2,166,986; July 25.
Phonograph. J. R. Long. 2,167,459; July 25.
Photograph printing frame. J. W. Hardy. 2,167,298; July 25.
Photographic emulsion. B. H. Carroll. 2,166,938; July 25.
Picker, Fruit. E. L. Wetzig. 2,167,133; July 25.
Picture making device. C. G. Lins. 2,167,518; July 25.
Picture with a cathode ray tube, Producing a sweep wave optical. B. J. Haskins and H. W. Mitchell. 2,167,177; July 25.
Pictures, Device for reproducing cinematographic. A. Dvornik. 2,167,107; July 25.
Piezoelectric apparatus. T. Haase. 2,167,506; July 25.
Pipe: *See*—
Smoking pipe.
Pipe cleaning apparatus. R. T. Quick. 2,167,087; July 25.

Pipe or tube making. E. J. Novack. 2,167,424; July 25.
Pipe or tube rolling. S. Findlater. 2,167,418; July 25.
Pipe-thread protector. B. Engstrom. 2,167,235; July 25.
Pipe wrench. J. Best. 2,167,145; July 25.
Piperidine compounds and preparing them. O. Eisleb. 2,167,351; July 25.
Piston skirt expander. L. A. Witter. 2,167,287; July 25.
Planters, Side dressing apparatus for. E. M. Cole. 2,167,023; July 25.
Plow, Lister. F. J. Imsick. 2,167,210; July 25.
Polishing compositions, Apparatus for manufacture of wax. G. Kaufman. 2,167,438; July 25.
Polysulphides of organic bases and of their solutions, Manufacture of. A. von Antropoff and J. Friedrichsen. 2,167,319; July 25.
Polyvinylchloride, Shaping. G. Wick. 2,167,441; July 25.
Pot for slug casting machines, Metal. L. W. Willis. 2,167,616; July 25.
Power control means for variable speed pulleys, Automatic. O. E. Pensbee. 2,167,003; July 25.
Power generator. H. Honnef and H. Geffeken. 2,167,265; July 25.
Power steering mechanism. B. Ulinski. 2,167,224; July 25.
Power system, Hydraulic. C. M. Conradson. 2,166,940; July 25.
Power transmission apparatus. E. T. Harmon and P. W. Doherty. 2,167,276; July 25.
Power transmitting unit. M. I. Ginsburg. 2,167,450; July 25.
Preparation of derivatives of estradiol. R. Weisz. 2,167,132; July 25.
Press: *See*—
Printing press. Racket press.
Pressure signal. W. J. Hooper. 2,167,456; July 25.
Pressure-sustaining valve. K. C. Monroe. 2,167,281; July 25.
Pressure testing device. M. L. Ganser. 2,167,449; July 25.
Printer adaptation to synchronous multiplex telegraphy, Start-stop. R. E. Mathes. 2,167,247; July 25.
Printing and duplicating machine. F. Glunz. 2,167,477; July 25.
Printing press. C. W. Brenn and C. A. Meisel. 2,167,022; July 25.
Prism sheet, Total reflecting. W. F. Grote. 2,167,149; July 25.
Propane dewaxing, Continuous. E. W. Thiele. 2,167,340; July 25.
Propeller, Aircraft. J. V. Mohler. 2,167,050; July 25.
Protective pad. S. Ash. 2,167,195; July 25.
Protector: *See*—
Pipe-thread protector.
Pull switch. A. J. Shaback. 2,167,253; July 25.
Pulverizer, Ground. J. J. Tipeke. 2,167,595; July 25.
Pump device, Water. J. F. Sutcliffe. 2,167,493; July 25.
Punch. A. Bustamante and B. R. Enriquez. 2,167,103; July 25.
Punching and notch cutting machine, Rotary. F. L. Manny. 2,167,279; July 25.
Rack: *See*—
Tubing rack.
Racket press. W. G. Curry. 2,167,560; July 25.
Radiation method and apparatus. J. Kieffer. 2,167,115; July 25.
Radiation method and apparatus, Spherical movement. J. Kieffer. 2,167,116; July 25.
Radiator, Oil or gas heating. F. Maczko. 2,167,406; July 25.
Radio receiver, Variable selectivity. J. F. Farrington. 2,167,400; July 25.
Rail cooling. P. W. Leisner and B. M. Lockard. 2,167,485; July 25.
Railway hopper car. A. A. Johnson. 2,167,364; July 25.
Range and view finder and camera mechanism functionally equipped therewith. E. S. Hineline. 2,167,435; July 25.
Range finder. E. Armbruster. 2,167,229; July 25.
Rayon spinning machine funnel bracket. H. J. McDermott. 2,167,583; July 25.
Razor. O. V. Rodrigues. 2,167,032; July 25.
Reaction product of a rosin ester and maleic anhydride and its preparation, Hydrogenated. I. W. Humphrey. 2,167,420; July 25.
Receiving circuit. B. D. H. Tellegen. 2,167,011; July 25.
Refrigeration apparatus. C. F. Alsing. 2,167,442; July 25.
Refrigerating apparatus. R. E. Baker. 2,167,036; July 25.
Refrigerating apparatus. C. E. Dunz. 2,167,264; July 25.
Refrigerating apparatus. H. F. Smith. 2,167,394; July 25.
Refrigerating apparatus. E. R. Wolfert. 2,167,018; July 25.
Refrigeration apparatus and method. R. C. Cosgrove. 2,167,447; July 25.
Refuse collecting vehicle. H. C. Frentzel, Jr., and C. G. Novotny. 2,167,148; July 25.
Register, Autographic. C. E. Wyrick. 2,167,165; July 25.
Regulator: *See*—
Draft regulator.
Reinforcing member for heterogeneous beams. J. E. McLafferty. 2,167,029; July 25.
Relay circuit. J. M. Wilson. 2,167,227; July 25.
Remote control device. L. J. Andres. 2,167,061; July 25.
Resin, Oil-soluble. V. H. Turkington and W. H. Butler. 2,167,094; July 25.
Resins, Vinyl-type. A. Kirkpatrick. 2,166,955; July 25.
Ring: *See*—
Furnace roof ring.
Roller and making the same, Sponge rubber. J. W. Leary. 2,167,215; July 25.
Roller with balls, Hammering. O. Michalk. 2,167,181; July 25.
Roof. V. L. Lagarda. 2,167,048; July 25.
Roof, Car. W. D. Thompson. 2,167,396; July 25.
Roof construction. R. L. Davison. 2,166,943; July 25.
Roof construction. H. S. Smalley, Jr. 2,167,592; July 25.
Rope, Strand-carried multiple conductor wire. W. T. Wells. 2,167,098; July 25.
Rotary mixer. J. I. Spangler, J. A. Eades, and E. H. Purdy. 2,167,316; July 25.
Rotor, Electric generator. F. W. Gay. 2,167,355; July 25.
Rubber, Coloring. M. Jones, W. F. Smith, and A. Stewart. 2,167,514; July 25.
Rubber, Vulcanization of. W. E. Messer. 2,167,030; July 25.
Safety means for fuses, Barrel. H. Jungbans. 2,167,302; July 25.
Sample carrier. H. L. Hoenigsberger. 2,167,363; July 25.
Sampler for bagged materials. H. Friedman. 2,167,566; July 25.
Scarf and headwear. L. Wood. 2,167,228; July 25.
Screen: *See*—
Air filter lint screen.
Screw, Self-tapping. R. H. Upson. 2,167,559; July 25.
Seal, Glass-to-metal. A. W. Hull and E. E. Burger. 2,167,482; July 25.
Seam for fabrics. M. T. Present. 2,167,371; July 25.
Seismic waves, Apparatus for recording. J. P. Minton. 2,167,124; July 25.
Separable connector. N. A. Tornblom. 2,167,223; July 25.
Sewage, Treating. J. G. Bevan. 2,167,443; July 25.
Sewer cleaning machine, Rotary. G. J. Sanger. 2,167,268; July 25.
Sewing mechanism. T. H. De Spain. 2,167,104; July 25.
Shampoo apparatus. N. M. Howe. 2,167,572; July 25.
Shaving cream, Brushless. W. Kritchevsky. 2,167,180; July 25.
Shield for nursing nipples. H. R. Sauder. 2,167,284; July 25.
Shingle. W. C. Weber. 2,167,192; July 25.
Ship. A. P. Schat. 2,167,315; July 25.
Ship construction. F. C. Paine. 2,167,552; July 25.
Shock absorber. J. Chudner. 2,167,474; July 25.
Shock absorber. P. Kollsman. 2,166,956; July 25.
Shoe finishing machine. N. Orgitano. 2,167,310; July 25.
Shoe heel reinforcement. L. Sabo and J. Kiss. 2,167,526; July 25.
Shoe last and protector therefor. P. S. Jones. 2,167,611; July 25.
Shoe machine. W. T. B. Roberts. 2,167,056; July 25.
Shoe upper pressing and smoothing machine. J. F. Smith. 2,167,410; July 25.
Shotgun barrel. H. Fleming. 2,167,173; July 25.
Sight for firearms, Front. B. A. Tetzlaff. 2,167,012; July 25.
Sign structure, Revoluble. G. L. Castillon. 2,167,563; July 25.
Signal: *See*—
Pressure signal. Traffic signal.
Signal arm, Vehicle. H. J. Graham and H. Y. Mageoch. 2,167,239; July 25.
Signal for dispensing pumps, Automatic. C. S. Hazard. 2,167,151; July 25.
Signalling. C. W. Hansell. 2,167,480; July 25.
Signaling apparatus. B. M. Kay. 2,167,076; July 25.
Signaling, Submarine. C. G. Suits. 2,167,536; July 25.
Signaling system, Carrier wave. C. E. Strong and F. C. McLean. 2,167,535; July 25.
Skiving, Method of and machine for. H. Lyon. 2,166,960; July 25.
Skein lacing. D. F. Evans. 2,167,546; July 25.
Slack adjuster. W. Helsten. 2,167,610; July 25.
Slack adjuster for brakes, Double-acting automatic. B. H. Browall. 2,167,562; July 25.
Slicer, Bread. L. Ferenci. 2,167,108; July 25.
Slicing machine. W. A. van Berkel. 2,167,095; July 25.
Slicing machine. J. J. Waage. 2,167,015; July 25.
Smoking pipe. S. La Franca. 2,167,242; July 25.
Socket device, Lamp. C. A. Woodward. 2,167,270; July 25.
Socket, Fuse. J. C. Cowing. 2,166,983; July 25.
Socket-shank structure. J. Verderber. 2,167,014; July 25.
Soda, Manufacture of caustic. H. Lawarree. 2,167,404; July 25.
Solar heater. F. M. Kiser. 2,167,576; July 25.
Soldering iron. F. Kuhn and L. H. Thomas. 2,167,389; July 25.
Soldering machine. A. Schmidt. 2,167,006; July 25.

Soldier with shooting gun, Mechanical walking. M. Geiser. 2,167,042; July 25.
Sole for sandals, Rubber. M. A. Westheimer. 2,167,035; July 25.
Sole-fitting machine. A. A. Rivington. 2,167,054; July 25.
Sound recording and reproducing element and more particularly a permanent magnet therefor. C. Schaarwächter and A. Ruppelt. 2,167,188; July 25.
Sounding and means therefor, Echo. D. O. Sproule. 2,167,492; July 25.
Sounding board for stringed instruments. H. Moertel. 2,167,486; July 25.
Speed control, Automobile. G. E. Slaugenhop. 2,167,590; July 25.
Speed control for combustion engines. H. D. Cochran and J. L. Smith. 2,167,293; July 25.
Speed indicator, Maximum. G. H. Thomas. 2,167,092; July 25.
Spring: *See*—
Leaf spring.
Spring anchoring device. W. W. Gleason. 2,166,989; July 25.
Spring suspension for motor vehicles and the like. G. Guérard. 2,167,403; July 25.
Stacking machine. F. E. Hooper. 2,167,045; July 25.
Stand: *See*—
Display stand. Supporting stand.
Starting device, Full floating. W. Lingo. 2,167,618; July 25.
Steam generator. A. E. Duram. 2,167,545; July 25.
Steam plant. C. G. Wallin. 2,167,469; July 25.
Stepladder, Folding. K. O. Muehlberg. 2,167,157; July 25.
Stocking structures, Formation of coursewise integrally knitted heel and instep. W. R. McCurdy and J. W. Boyle. 2,167,248; July 25.
Stoker furnace. E. B. Priebe. 2,166,966; July 25.
Stove. B. Field and M. F. Walsh. 2,167,617; July 25.
Structural unit. A. de Pfyffer. 2,167,370; July 25.
Superheater, Locomotive. W. Shane. 2,167,090; July 25.
Support: *See*—
Bearing housing support. Cushion support.
Support such as centering, shuttering, scaffolding, and the like. R. F. Bartlett. 2,167,413; July 25.
Supporter clip. J. Benkert. 2,167,167; July 25.
Supporting stand. C. F. Kraemer. 2,167,483; July 25.
Surgical tape or submucosa tissue. A. Rogers. 2,167,251; July 25.
Sweeper, Carpet. E. R. Smith. 2,166,977; July 25.
Switch: *See*—
Disconnecting switch. Pull switch.
Electric switch.
Electromagnetically operated switch.
Switch for hand lamps. W. R. Kopp. 2,167,117; July 25.
Switch unit. C. H. H. Rodanet. 2,167,374; July 25.
Table: *See*—
Folding card table. Folding table.
Tank and closet bowl connection, Flush. G. P. Gavin. 2,167,354; July 25.
Tank and the like, Mixing. J. W. Corr. 2,167,344; July 25.
Tape smoothing machine. W. C. George. 2,167,356; July 25.
Taping machine. W. C. George. 2,167,357; July 25.
Telegraph apparatus. R. D. Salmon. 2,167,527; July 25.
Telegraph signaling, and like selective system and apparatus. V. Sims. 2,167,532; July 25.
Telegraph system. R. Helmert. 2,167,509; July 25.
Telegraph transmitter. R. D. Salmon. 2,167,528; July 25.
Telegraphy. H. Muth. 2,167,461; July 25.
Telephone system having two-party lines. H. V. Alexandersson and O. G. R. Siewert. 2,167,288; July 25.
Temperature change compensation apparatus. H. R. Adams. 2,166,935; July 25.
Tenon cutter. A. W. Morris. 2,167,082; July 25.
Tension apparatus for reversible mills. E. B. Hudson. 2,167,549; July 25.
Tent, Foldable. E. Sankey. 2,167,219; July 25.
Testing apparatus, Electric board. L. E. Huskey. 2,167,209; July 25.
Testing machine for shock absorbers and the like. L. E. Willard. 2,167,420; July 25.
Textile packages, Pretesting and dyeing. R. Little and F. W. Fraim. 2,167,365; July 25.
Thermostatic control of electron discharge apparatus. B. D. Bedford. 2,167,472; July 25.
Thorn-removing device. M. De Meester. 2,167,337; July 25.
Throttle control, Automobile. A. C. Gutenberg and R. L. Brower. 2,167,110; July 25.
Tilting mechanism, especially for chairs. W. F. Herold. 2,167,508; July 25.
Timing and timing device. H. J. McCreary and R. G. Richardson. 2,167,121; July 25.
Tire, Automobile. I. B. Kaiser. 2,167,277; July 25.
Tire gauge, Electrical. W. Harfst. 2,167,568; July 25.
Tire, Pneumatic. I. I. Tubbs. 2,167,398; July 25.
Tire treads, Apparatus for slitting. G. F. Wikle. 2,167,017; July 25.
Tires, Cooling multicellular rubber. J. Brunswick. 2,166,927; July 25.
Tool: *See*—
Car coupling tool. Machine tool.
Tool for bar stock, Machine. E. Nüdelin. 2,167,308; July 25.
Tool with feeding mechanism, Machine. B. N. Foster and E. J. Kingsbury. 2,167,401; July 25.
Tooth-point construction. J. W. Page. 2,167,425; July 25.
Top for spice tins. J. L. Jones. 2,167,574; July 25.
Torque compensator for airplanes. G. Solomon. 2,167,533; July 25.
Torque transmitting device. J. W. Marsh. 2,166,961; July 25.
Totalizing system, Automatic. A. J. Johnston. 2,167,513; July 25.
Toy apparatus. A. Gueydan. 2,167,068; July 25.
Toy, Sparking. E. E. McKeige. 2,167,249; July 25.
Toy steered by remote control, Wheeled. R. Lohr and R. N. Carver. 2,167,245; July 25.
Toy, String-controlled wheeled. R. Lohr. 2,167,246; July 25.
Traction device. H. N. Ekbom. 2,167,039; July 25.
Traffic signal, Portable. A. S. Fonda. 2,167,564; July 25.
Transfer mechanism for knitting machines, Stitch. H. McAdams. 2,167,581; July 25.
Transit system, Rapid. J. B. Strauss. 2,167,034; July 25.
Translating mechanism. R. G. Griffith. 2,167,505; July 25.
Transmission brake. A. Y. Dodge. 2,167,171; July 25.
Transmission circuit. L. Schott and S. B. Wright. 2,167,007; July 25.
Transmission system. C. W. Halligan. 2,167,069; July 25.
Trap. W. E. Bowman. 2,167,291; July 25.
Truck, Car. W. Blackmore. 2,167,231; July 25.
Truck structure, Railway. H. M. Pflager. 2,167,125; July 25.
Tube: *See*—
Electron tube. High voltage X-ray tube.
Electronic discharge tube.
Tube having an oxide cathode, Electric discharge. W. G. Burgers, H. Bruining, and P. H. J. A. Kleynen. 2,166,984; July 25.
Tubes, Electric welding of. D. Sciaky. 2,167,554; July 25.
Tubes, Manufacturing cathode ray. R. M. Bowie. 2,167,431; July 25.
Tubing rack. G. C. Morue. 2,167,584; July 25.
Turbine blades, Brazing. J. G. Morgan. 2,166,998; July 25.
Two-stroke engine. F. Giró. 2,167,402; July 25.
Two-terminal low-pass coupling system. H. A. Wheeler. 2,167,136; July 25.
Type bed gib. S. A. Huffman. 2,167,154; July 25.
Unbalance in rotatable bodies, Mechanism for automatically determining and indicating. B. E. Ohlson. 2,167,488; July 25.
Valve: *See*—
Air vent valve. Hold-down valve.
Filler valve. Pressure-sustaining valve.
Valve circuit, Electric. D. E. Chambers. 2,167,498; July 25.
Valve for automatic control of supplementary liquids. L. B. Kimball. 2,167,266; July 25.
Valve means, Control. E. J. Dunham and W. C. Yeakel. 2,167,106; July 25.
Valve mechanism, Locomotive. F. G. Markey. 2,167,280; July 25.
Variable electric filter. R. Rechnitzer. 2,167,462; July 25.
Vault, Burial. R. Simpson. 2,167,091; July 25.
Vehicle: *See*—
Refuse collecting vehicle.
Vehicle. J. M. Stover, Jr. 2,167,593; July 25.
Vehicle body. R. E. C. Schulz. 2,167,376; July 25.
Velocipede. B. J. Anderson. 2,167,021; July 25.
Velocipede fork. B. J. Anderson. 2,167,020; July 25.
Venting control for air valves, Adjustable. C. W. Abercrombie. 2,167,321; July 25.
Vessel, Quick opening pressure. H. H. Needham and F. K. Zerbe. 2,166,999; July 25.
Vibrator oscillator, Piezoelectric. A. M. Skellett. 2,167,254; July 25.
Vitamin E composition. A. J. Pacini. 2,167,002; July 25.
Volume control, Automatic. A. F. Van Dyck and A. N. Goldsmith. 2,167,058; July 25.
Vulcanization accelerator. M. W. Harman. 2,167,385; July 25.
Wall construction for trailers, Folding. W. B. Stout. 2,167,557; July 25.
Wall fastening. K. P. Grassberger. 2,167,176; July 25.
Washing apparatus. H. E. Page. 2,167,086; July 25.
Washing machine, Compartmental. W. A. Frantz. 2,167,147; July 25.
Watch movement. H. Thiebaud. 2,167,604; July 25.
Water closet. S. Duner. 2,166,944; July 25.
Waterproofing solution for cement and stucco. W. B. Houston. 2,167,300; July 25.
Water-purifying apparatus. W. F. Van Eweyk. 2,167,225; July 25.

Water strata in oil wells, Locating. D. W. Elliott. 2,167,066; July 25.
Wave amplifying system, Electric. R. S. Caruthers. 2,166,929; July 25.
Wave amplifying system, Electric. S. T. Meyers. 2,167,367–8; July 25.
Weight recording and registering apparatus. K. A. Körber. 2,167,517; July 25.
Well casing, Welding and setting. U. C. Murcell. 2,167,338; July 25.
Well surveying device. R. E. Hendrickson. 2,167,072; July 25.
Well surveying instrument. R. E. Hendrickson. 2,167,071; July 25.
Wells, Method and apparatus for screening. W. V. Vietti and J. K. Butler. 2,167,191; July 25.
Wells, Screening. W. V. Vietti. 2,167,190; July 25.
Wheel; *See*—
Buffing wheel.
Wheel. F. W. Burger. 2,167,102; July 25.
Wheel and chassis alignment indicator. O. Haucke. 2,167,361; July 25.
Wheel and cooling the same, Grinding. D. Z. Murphy. 2,167,282; July 25.
Wheel for automobiles, Shock-absorbing steering. W. W. Hamill. 2,166,931; July 25.
Wheel head, Sanding. C. Jones. 2,167,573; July 25.
Window-cleaning device. A. Renik. 2,167,524; July 25.
Wiper, Windshield. E. C. Horton. 2,167,207; July 25.
Wire block, Water-cooled. C. E. Tideman. 2,167,397; July 25.
Wire bound box. F. A. Schaack. 2,167,126; July 25.
Wood, Bleaching of. H. O. Kauffmann and R. L. McEwen. 2,166,954; July 25.
Wrapping machine. C. M. Eberling. 2,166,946; July 25.
Wrench; *See*—
Pipe wrench.
Wringer, Automatic mop. A. Palmer. 2,166,965; July 25.
X-ray device. J. Kieffer. 2,167,114; July 25.
X-ray exposures, Apparatus for timing. F. N. Scalfe. 2,167,529; July 25.

CLASSIFICATION OF PATENTS

ISSUED JULY 25, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

1— 3: 2,167,331
4: 2,166,983
2— 8: 2,167,580
159: 2,167,226
198: 2,167,228
4— 12: 2,167,354
76: 2,166,944
159: 2,167,572
185: 2,167,178
213: 2,167,152
242: 2,167,587
257: 2,167,597
271: 2,167,111
5— 21: 2,167,175
8— 111: 2,166,954
155: 2,167,365
10— 105: 2,166,952
2,166,957
130: 2,167,401
12— 7: 2,166,936
14: 2,167,056
27: 2,167,054
51: 2,167,181
2,167,410
67: 2,166,960
139: 2,167,611
142: 2,167,274
13— 9: 2,167,575
15— 41: 2,166,977
98: 2,167,296
138: 2,167,523
195: 2,167,129
236: 2,167,196
245: 2,167,207
261: 2,166,965
16— 49: 2,167,409
86: 2,166,970
2,167,263
130: 2,167,569
179: 2,167,489
2,167,585
17— 3: 2,166,939
26: 2,167,051
18— 17: 2,167,392
48: 2,167,550
54: 2,167,202
55: 2,167,441
56: 2,167,539
57: 2,167,570
19— 66: 2,166,974
20— 69: 2,166,993
22— 71: 2,167,616
23— 103: 2,167,464
123: 2,167,238
184: 2,167,404
203: 2,167,112
205: 2,167,358
230: 2,167,304
239: 2,167,432
24— 250: 2,167,167
25— 22: 2,167,386
38: Re.21,164
154: 2,167,200
27— 32: 2,167,001
28— 21: 2,167,546
29— 62: 2,167,308
76: 2,167,341
96: 2,167,146
148: 2,167,475
153.1: 2,167,088
156.8: 2,166,998
157: 2,167,372
30— 40: 2,167,032
129: 2,167,411
165: 2,167,212
33— 47: 2,167,012
145: 2,167,081
203: 2,167,361
204: 2,167,422
205.5: 2,167,071
2,167,072
34— 19: 2,167,567
35— 16: 2,167,169
24: 2,167,131
36— 11.5: 2,167,035
62: 2,166,958
76: 2,167,526
37— 142: 2,167,425
144: 2,167,166
40— 4: 2,167,305
77: 2,167,563
86: 2,167,518
125: 2,166,994
2,167,564
41— 22: 2,167,149
42— 79: 2,167,173
43— 39: 2,167,163
42: 2,167,334
47: 2,167,335
61: 2,167,291
44— 9: 2,167,345
45— 68.4: 2,167,195
85: 2,167,013
46— 10: 2,167,249
120: 2,167,042
201: 2,167,068
210: 2,167,245
2,167,246
47— 57: 2,167,337
48— 190: 2,167,138
2,167,139
2,167,140
2,167,141
49— 7: 2,167,318
45: 2,167,294
56: 2,167,290
81: 2,167,482
50— 35: 2,167,328
51— 101: 2,167,614
166: 2,167,310
193: 2,167,059
194: 2,167,573
197: 2,167,037
204: 2,167,312
238: 2,167,615
267: 2,167,282
278: 2,167,311
280: Re.21,165
53— 6: 2,167,038
55— 21: 2,167,595
23: 2,167,262
134: 2,167,044
56— 25: 2,166,942
2,166,967
2,167,222
294: 2,167,130
327: 2,167,244
339: 2,167,133
57— 76: 2,167,583
58— 59: 2,167,604
59— 79: 2,167,491
60— 32: 2,167,303
52: 2,166,940
54: 2,167,382
54.5: 2,166,962
62— 4: 2,167,018
2,167,036
114: 2,167,340
116: 2,167,394
2,167,442
118: 2,167,264
126: 2,166,953
129: 2,167,380
170: 2,167,447
64— 2: 2,167,268
15: 2,167,295
66— 82: 2,166,959
86: 2,167,408
89: 2,167,248
95: 2,167,581
127: 2,167,478
135: 2,167,390
66— 147: 2,167,534
68— 23: 2,167,086
27: 2,167,147
134: 2,167,218
149: 2,167,009
153: 2,167,594
315: 2,167,205
72— 7: 2,167,091
45: 2,167,187
61: 2,167,029
71: 2,167,208
118: 2,167,176
73— 4: 2,167,412
31: 2,167,449
51: 2,167,185
2,167,429
2,167,488
231: 2,167,172
74— 1: 2,167,010
7: 2,167,618
36: 2,167,314
52: 2,166,975
64: 2,167,276
237: 2,167,384
302: 2,167,003
469: 2,167,421
480: 2,166,978
522: 2,167,230
552: 2,166,931
606: 2,167,065
75— 22: 2,167,240
126: 2,167,301
136: 2,167,516
137: 2,167,544
77— 4: 2,167,189
78— 42: 2,167,320
80— 13: 2,167,418
2,167,424
32: 2,167,548
2,167,549
81— 3.1: 2,166,972
6: 2,167,089
100: 2,167,145
82— 32: 2,167,609
83— 7: 2,167,214
15: 2,167,566
93: 2,167,040
84— 1.04: 2,167,600
267: 2,167,486
330: 2,167,582
339: 2,167,407
355: 2,167,359
85— 46: 2,167,558
2,167,559
87— 9: 2,167,064
2,167,273
2,167,439
2,167,612
13: 2,167,043
88— 1: 2,167,453
2,167,454
2.7: 2,167,229
14: 2,167,060
16.6: 2,167,107
24: 2,167,298
39: 2,166,988
61: 2,166,947
89— 2: 2,167,495
37.5: 2,167,561
90— 4: 2,167,267
13.05: 2,167,008
91— 18: 2,166,945
43: 2,167,252
2,167,257
50: 2,167,063
2,167,430
68: 2,167,105
2,167,317
2,167,414
70: 2,167,234
2,167,589
92— 39: 2,167,440
93— 2: 2,166,946
56: 2,167,356
2,167,357
94— 1.5: 2,167,292
18: 2,167,199
2,167,423
95— 7: 2,166,938
44: 2,167,435
2,167,436
64: 2,167,053
97— 47: 2,167,210
99— 11: 2,167,144
88: 2,167,353
122: 2,167,113
152: 2,167,085
101— 125: 2,166,992
268: 2,167,022
102— 39: 2,167,197
2,167,302
103— 55: 2,167,493
181: 2,167,415
105— 82: 2,167,216
96: 2,166,976
157: 2,167,231
176: 2,167,034
197: 2,167,125
247: 2,167,364
251: 2,167,362
355: 2,167,427
366: 2,166,948
377: 2,167,306
106— 24: 2,167,606
107— 8: 2,167,388
65: 2,167,047
108— 1: 2,166,943
2,167,048
2,167,592
5.4: 2,167,396
13: 2,167,370
17: 2,167,192
111— 52: 2,167,023
112— 25: 2,167,104
262: 2,167,371
113— 59: 2,167,006
61: 2,167,330
114— 65: 2,167,315
162: 2,167,552
116— 34: 2,167,456
173: 2,167,579
119— 77: 2,166,982
120— 84: 2,167,465
121— 46.5: 2,167,106
146: 2,167,280
122— 6: 2,166,964
35: 2,167,299
235: 2,166,966
240: 2,167,545
462: 2,167,090
123— 52: 2,166,968
59: 2,167,402
74: 2,166,930
102: 2,167,293
146: 2,167,269
173: 2,167,093
126— 39: 2,167,617
93: 2,167,406
271: 2,167,576
128— 252: 2,167,284
335.5: 2,167,251
402: 2,167,467
129— 1: 2,167,363
16: 2,167,578
131— 39: 2,167,119
52: 2,167,170
218: 2,167,242
231: 2,167,261
240: 2,167,586
132— 31: 2,167,387
33: 2,167,446
134— 50: 2,167,221
134— 78.5: 2,167,300
78.6: 2,167,278
135— 1: 2,167,219
137— 153: 2,167,266
138— 96: 2,167,235
139— 33: 2,167,193
67: 2,167,052
329: 2,167,041
385.5: 2,167,350
410: 2,167,542
140— 93: 2,167,452
141— 9: 2,167,540
144— 105: 2,167,153
266: 2,167,428
145— 129: 2,167,082
146— 102: 2,167,015
2,167,095
153: 2,167,108
148— 8: 2,166,990
152— 153: 2,166,927
176: 2,167,277
418: 2,167,398
155— 179: 2,166,989
158— 4: 2,167,444
27.4: 2,167,399
110: 2,167,183
164— 0.8: 2,167,445
17: 2,167,215
61: 2,167,017
87: 2,167,279
124: 2,167,103
166— 4: 2,167,338
5: 2,167,191
21: 2,167,190
167— 65: 2,167,319
78: 2,166,963
81: 2,167,002
85: 2,167,180
88: 2,167,502
169— 27: 2,167,232
170— 163: 2,167,050
171— 95: 2,166,935
2,167,083
2,167,162
2,167,177
2,167,553
97: 2,167,084
252: 2,167,355
2,167,360
2,167,487
321: 2,167,479
327: 2,167,506
172— 179: 2,167,481
2,167,530
239: 2,167,484
173— 339: 2,167,223
2,167,270
361: 2,167,541
174— 24: 2,167,378
27: 2,167,510
28: 2,167,538
103: 2,167,098
175— 183: 2,167,066
2,167,209
2,167,490
220: 2,167,419
320: 2,167,227
2,167,473
176— 26: 2,167,426
122: 2,166,951
177— 311: 2,167,007
329: 2,167,239
386: 2,167,492
2,167,536
178— 2: 2,167,509
2,167,527
7.4: 2,167,460
17: 2,167,532
34: 2,167,505
44: 2,167,078
2,167,079
178— 44: 2,167,134
2,167,135
2,167,136
2,167,137
2,167,522
52: 2,167,247
66: 2,167,461
79: 2,167,528
179— 1: 2,167,011
2,167,062
2,167,462
6.3: 2,167,061
32: 2,167,288
77: 2,167,069
78: 2,167,016
100.3: 2,167,459
107: 2,167,377
115.5: Re.21,159
171: 2,169,929
2,167,367
2,167,368
2,167,400
2,167,535
180— 79.1: 2,167,224
82: 2,167,260
181— 0.5: 2,167,124
183— 2.7: 2,167,160
45: 2,167,323
58: 2,167,236
62: 2,167,283
184— 6: 2,167,451
7: Re.21,160
188— 77: 2,167,171
78: 2,167,297
2,167,607
102: 2,167,474
197: 2,167,610
202: 2,167,562
250: 2,167,551
189— 36: 2,167,285
37: 2,167,413
192— 3: 2,167,110
13: 2,167,501
53: 2,167,373
57: 2,166,961
66: 2,167,450
91: 2,167,118
196— 4: 2,167,327
2,167,346
2,167,347
2,167,348
2,167,349
48: 2,167,507
2,167,531
50: 2,166,933
52: 2,167,602
53: 2,167,250
2,167,339
55: 2,167,211
139: 2,167,025
197— 100: 2,167,150
126: 2,166,973
198— 43: 2,167,049
81: 2,167,343
104: Re.21,161
200— 5: 2,167,374
11: 2,167,237
31: 2,167,366
33: 2,167,259
56: 2,167,092
59: 2,167,031
2,167,076
60: 2,167,117
67: 2,167,543
111: 2,167,588
114: 2,167,499
133: 2,166,985
134: 2,167,608
138: 2,167,255
161: 2,167,253
201— 48: 2,167,568

201—	67:	2,167,494	221—	79:	2,167,289	244—	42:	2,167,601	250—	143:	2,167,275
202—	25:	2,167,100		95:	2,167,151		76:	2,167,077		150:	2,167,097
	46:	2,166,997		124:	2,167,416			2,167,256		157:	2,167,379
	113:	2,167,099		148:	2,167,476			2,167,533	251—	8:	2,167,321
	158:	2,167,395	223—	68:	2,167,161	246—	134:	2,167,027		76:	2,167,281
	221:	2,167,503		99:	2,167,080	248—	5:	2,167,577	252—	6:	2,167,455
205—	20:	2,167,397	225—	21:	2,167,547		26:	2,167,164	255—	1:	2,167,194
206—	1:	2,167,213		40:	2,167,309		206:	2,167,046		4:	2,167,019
210—	2:	2,167,443	226—	70:	2,167,438	250—	8:	2,167,480		24:	2,167,393
	103:	2,167,225		109:	2,167,123		11:	2,166,991		28:	2,167,937
	160:	2,166,980	228—	29:	2,167,157		17:	2,167,511			2,167,591
	201:	2,167,322	229—	14:	2,167,555		20:	Re.21,157		50:	2,167,220
	202:	2,167,159		34:	Re.21,158			2,166,995	257—	34:	2,167,028
211—	28:	2,167,198		71:	2,167,005			2,167,058		212:	2,167,344
	50:	2,167,375	230—	21:	2,167,369			2,167,405		230:	2,167,333
	60:	2,167,584		256:	2,166,987			2,167,605	259—	109:	2,167,316
	149:	2,167,483	234—	5.5:	2,166,932		27:	2,167,024		149:	2,167,156
212—	68:	2,167,026		77:	2,167,417			2,167,033		165:	2,167,243
213—	127:	2,167,613	235—	61.6:	2,166,928			2,167,498	260—	19:	2,167,127
214—	6:	2,167,045		92:	2,167,513		27.5:	Re.21,163		32:	2,167,537
	67:	2,167,148		103.5:	2,167,332			2,166,984		38:	2,167,313
216—	55:	2,167,468		114:	2,167,271			2,167,128		47:	2,167,073
217—	12:	2,167,126	236—	49:	2,167,472			2,167,201		57:	2,167,094
	17:	2,167,329		63:	2,167,433			2,167,431		73:	2,166,955
219—	8:	2,167,565		93:	2,167,307			2,167,515		100:	2,167,420
	10:	2,167,554		95:	2,167,182			2,167,519		124:	2,167,556
	19:	2,167,121	237—	67:	2,167,336			2,167,521		204:	2,167,142
	26:	2,167,389	238—	125:	2,167,485		33:	2,167,286		294:	2,167,351
	38:	2,167,155	240—	2.1:	2,167,463		36:	2,167,254		316:	2,167,434
	39:	2,167,122		6.43:	2,167,109			2,167,496		383:	2,167,070
220—	24:	2,166,999		7.35:	2,167,383		40:	2,167,512		397:	2,167,132
	69:	2,167,000		11.2:	2,167,184		48:	2,167,233			2,167,272
	90:	2,167,217		81:	2,167,458		58:	2,167,114		401:	2,166,949
221—	23:	2,167,437	242—	54:	2,167,087		65:	2,167,115		406:	2,167,206
	64:	2,167,574		107:	2,167,571			2,167,116		449:	2,167,004
	67:	2,167,448	244—	13:	2,167,143		95:	2,167,529		457:	2,167,326

260—	460:	2,166,981	280—	11.35:	2,166,979						
	475:	2,166,934		33.15:	2,167,320						
	483:	2,167,168		106.5:	2,167,096						
	514:	2,167,325		248:	2,167,593						
	583:	2,166,971		279:	2,167,020						
	597:	2,167,203		282:	2,167,021						
	677:	2,167,067	282—	12:	2,167,165						
	679:	2,167,471	285—	86:	2,167,258						
	735:	2,167,381	287—	85:	2,167,508						
	743:	2,167,514		90:	2,167,174						
	788:	2,167,385	288—	3:	2,167,603						
	790:	2,167,030	290—	2:	2,167,469						
261—	24:	2,167,497		44:	2,167,265						
	36:	2,167,466	292—	254:	2,167,324						
262—	1:	2,167,500		340:	2,167,391						
263—	53:	2,167,120	293—	55:	2,167,186						
264—	16:	2,167,590	294—	18:	2,167,599						
265—	5:	2,167,517	296—	23:	2,167,557						
	49:	2,167,204		31:	2,167,376						
	71:	2,167,075	299—	23:	2,166,969						
266—	6:	2,167,504		67:	2,167,055						
	14:	2,167,596	301—	12:	2,167,102						
267—	8:	2,166,956		108:	2,167,101						
	19:	2,167,403	303—	56:	2,167,057						
	64:	2,167,598	305—	9:	2,167,039						
270—	58:	2,167,470	306—	28:	2,167,524						
271—	2.1:	2,167,179	308—	6:	2,167,154						
	62:	2,167,477		207:	2,167,457						
273—	74:	2,167,560	309—	12:	2,167,257						
	80:	Re.21,162	311—	1:	2,166,941						
	82:	2,166,950		82:	2,167,158						
	121:	2,167,352		90:	2,167,342						
	146:	2,167,074	312—	50:	2,166,996						
274—	2:	2,166,986		67:	2,167,241						
	41.4:	2,167,188		141:	2,167,525						
279—	83:	2,167,014									

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,166,930:	123—	74	2,167,094:	260—	57	2,167,154:	308—	6	2,167,269:	123—	146
2,166,949:	260—	401	2,167,097:	250—	150	2,167,157:	228—	29	2,167,271:	235—	114
2,167,000:	220—	69	2,167,102:	301—	12	2,167,191:	166—	5	2,167,274:	12—	142
2,167,001:	27—	32	2,167,103:	164—	124	2,167,212:	30—	165	2,167,275:	250—	143
2,167,025:	196—	139	2,167,115:	250—	65	2,167,233:	250—	48	2,167,292:	94—	1.5
2,167,038:	260—	790	2,167,116:	250—	65	2,167,234:	91—	70	2,167,296:	15—	98
2,167,036:	62—	4	2,167,127:	260—	19	2,167,261:	131—	231	2,167,322:	210—	201
2,167,056:	12—	14	2,167,129:	15—	195	2,167,268:	64—	2	2,167,353:	99—	88
2,167,067:	260—	677	2,167,149:	41—	22						

2,167,354:	4—	12	2,167,442:	62—	116
2,167,370:	108—	13	2,167,444:	158—	4
2,167,378:	174—	24	2,167,447:	62—	170
2,167,381:	260—	735	2,167,497:	261—	24
2,167,385:	260—	788	2,167,514:	260—	743
2,167,387:	132—	31	2,167,523:	15—	138
2,167,417:	234—	77	2,167,613:	213—	127
2,167,438:	226—	70	2,167,617:	126—	39

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THE

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CONTENTS

	Page
Issue of July 4, 1939	1
Interference Notice	1
Notice of Cancellation	1
Adjudicated Patents	1
Applications Under Examination	2
Decisions of the U. S. Courts—	
The Maytag Company v. Hurley Machine Co. and Electric Household Utilities Corporation. The Maytag Company v. Easy Washing Machine Corporation. General Electric Supply Corporation v. The Maytag Company	3
The Electric Storage Battery Company v. Genzo Shimadzu and Northeastern Engineering Corporation	4
Patent Suits	9
Adverse Decisions in Interference	10
Disclaimers	10
Trade-Marks Published (205 Applications)	11
Trade-Mark Registrations Granted	37
Trade-Mark Registrations Renewed	43
Labels	44
Prints	45
Reissues	47
Plant Patents	48
Patents Granted	49
Designs	256

July 4, 1939

Trade-Marks	145—	No. 368,816 to No.	368,960,	inclusive.
T. M. Renewals	12			
Labels	28—	No. 53,208 to No.	53,235,	inclusive.
Prints	17—	No. 17,469 to No.	17,485,	inclusive.
Reissues	6—	No. 21,135 to No.	21,140,	inclusive.
Plant Patent	1—	No. 334		
Patents	894—	No. 2,164,302 to No.	2,165,195,	inclusive.
Designs	115—	No. 115,487 to No.	115,601,	inclusive.
Total	1,218			

Interference Notice

U. S. Patent Office, *Washington, D. C., June 6, 1939.*

Emmerich Pillows, Inc., its assigns or legal representatives take notice:

An interference has been declared by this Office between the application of The Land-O-Nod Co., Broadway at Central, Minneapolis, Minn., for registration of a trade-mark, and trade-mark registered September 18, 1928, No. 247,065, to Chas. Emmerich and Co., 501 West Huron St., Chicago, Ill. The records of this Office show that Emmerich Pillows, Inc., Chicago, Ill., is the assignee of said registrant. A notice of such proceeding sent by registered mail to said Emmerich Pillows, Inc., at the said address, having been returned by the post office as undeliverable, notice is hereby given that unless said Emmerich Pillows, Inc., its assigns or legal representatives shall enter an appearance therein within thirty days from the first publication of this order, the interference will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

Justin W. Macklin,
First Assistant Commissioner.

Notice of Cancellation

U. S. Patent Office, *Washington, D. C., June 19, 1939.*

Central Candy Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Penick & Ford, Ltd., Incorporated, 420 Lexington Avenue, New York, N. Y., to effect the cancellation of trade-mark registration No. 215,823, issued July 27, 1926, to Central Candy Co., Waco, Tex., and a notice of such proceeding sent by registered mail to said Central Candy Co. at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Central Candy Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

Justin W. Macklin,
First Assistant Commissioner.

Adjudicated Patents

(D. C. Ill.) Kiefer patent, No. 1,572,150, for filling machine, *Held* infringed. *Karl Kiefer Mach. Co.* v. *U. S. Bottlers Machinery Co.*, 27 F. Supp. 300.

(C. C. A. Calif.) Smith patent, No. 1,662,035, for retread mold for tires, claims 1 and 13 *Held* valid and infringed, and claim 12 *Held* invalid. *Goodman* v. *Super Mold Corporation of California*, 103 F.(2d) 474.

(C. C. A. Calif.) Smith patent, No. 1,710,804, for tire-retreading mold, claim 4 *Held* invalid. *Id.*

(C. C. A. Calif.) Glynn patent, No. 1,760,944, for tire-retreading mold, claims 1 and 2 *Held* invalid. *Id.*

(D. C. Mich.) North and Lindstrom patent, No. 1,937,778, for latch, claims 1 to 3 and 6 to 8 *Held* invalid. *National Lock Co.* v. *Winters & Crampton Corporation*, 27 F. Supp. 261.

(C. C. A. Ohio.) Raible patent, No. 1,945,358, for method of forming chaplets and the like, claims 1 to 4, 5, and 6 *Held* invalid. *Fanner Mfg. Co.* v. *Angell Nail & Chaplet Co.*, 103 F.(2d) 518.

(D. C. Pa.) Grant patent, No. 1,970,848, for display window bag, *Held* invalid. *Jaite-Grant Display Bag Co.* v. *Thomas M. Royal & Co.*, 27 F. Supp. 251.

(C. C. A. Utah.) Johnson patent, No. 2,007,607, for pressing machine and control mechanism therefor, claims 2, 3, 5, 6, and 8 *Held* invalid. *American Laundry Mach. Co.* v. *Strike*, 103 F.(2d) 453.

(D. C. Mich.) Winters and De Voe patent, No. 2,010,907, for refrigerator latch, claim 1 *Held* not infringed. *National Lock Co.* v. *Winters & Crampton Corporation*, 27 F. Supp. 261.

Condition of Applications Under Examination at Close of Business June 17, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 43,230; Trade-Mark Division, 1,423. Oldest new case, Nov. 7, 1938; oldest amended, Nov. 2, 1938.)
(The dates given are 1939 except where † indicates 1938)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
		New	Amended	
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Jan. 13	Jan. 21	721
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Jan. 24	Jan. 26	676
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 8	Apr. 11	372
7083	4. DONNELLY, A. E., Conveyors: Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Mar. 22	Mar. 13	421
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Mar. 25	Mar. 22	489
4898 C	6. LEWERS, A. M., Carbon Chemistry (part)	†Dec. 13	†Dec. 15	1,003
5725	7. JARBOE, C. G., Optics; Photography	Mar. 7	Feb. 20	926
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	†Dec. 21	Jan. 16	1,059
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Feb. 1	Feb. 3	710
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Mar. 6	Mar. 10	600
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 7	Feb. 25	453
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	†Dec. 27	†Dec. 20	560
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Jan. 7	Jan. 9	658
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Apr. 4	Apr. 4	448
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Jan. 31	Jan. 30	1,205
5716	16. SPENCER, C. J., Telegraphy; Telephony	Jan. 21	Jan. 7	816
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 15	Feb. 16	489
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	†Dec. 17	†Dec. 22	550
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Jan. 9	Mar. 3	424
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Mar. 25	Mar. 28	366
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 21	Feb. 23	493
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Jan. 23	Jan. 23	891
7624	23. BUTTNER, W. J., Registers (part)	†Nov. 18	†Dec. 20	266
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Dec. 19	†Dec. 16	1,142
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 13	Mar. 14	502
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Jan. 26	Jan. 26	621
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Nov. 24	†Nov. 22	1,200
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Feb. 23	Feb. 9	479
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Jan. 10	740
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Jan. 13	Jan. 11	862
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Mar. 18	Mar. 16	664
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Mar. 23	Mar. 21	390
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Mar. 20	Mar. 23	681
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Mar. 8	Mar. 18	363
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 17	Feb. 24	571
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Jan. 17	Jan. 25	534
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Jan. 18	Jan. 5	660
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	†Nov. 21	†Nov. 21	708
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 3	Mar. 8	592
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Jan. 21	Jan. 21	1,442
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Jan. 9	†Dec. 28	335
5882	42. CUTTING, H. O., Electric Signaling	†Dec. 2	†Dec. 6	624
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Mar. 8	Mar. 8	489
4087 B	44. HARVEY, L. P., Refrigeration	†Dec. 29	Jan. 9	664
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Mar. 6	Mar. 4	576
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Jan. 20	Jan. 20	701
6082	47. LOWE, E. R., Clutches; Brakes	Feb. 25	Feb. 24	426
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 22	Mar. 20	398
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	†Dec. 5	†Dec. 3	1,078
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	†Dec. 17	†Dec. 17	1,215
5628	51. BACKUS, C. D., Radiant Energy (part)	Mar. 22	Mar. 22	646
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Jan. 25	Feb. 4	817
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Mar. 2	Mar. 9	548
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 16	Mar. 14	344
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Nov. 7	†Nov. 2	738
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Jan. 5	Jan. 7	1,187
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Feb. 20	Mar. 20	461
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Mar. 4	Feb. 27	397
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Mar. 7	Mar. 9	589
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Feb. 9	Feb. 9	429
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	†Dec. 24	Jan. 20	536
5621	62. PUGH, E. C., Games; Geometrical Instruments	Apr. 7	Apr. 1	441
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	†Dec. 29	Jan. 11	599
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Feb. 23	Feb. 24	857
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Jan. 26	Jan. 23	609
2099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND — Trade-Marks	May 11	May 27	1,310
	Labels and Prints	June 3	June 3	113
2605	Designs: H. H. KALUPY	May 5	May 19	779

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

THE MAYTAG COMPANY *v.* HURLEY MACHINE CO. AND ELECTRIC HOUSEHOLD UTILITIES CORPORATION

THE MAYTAG COMPANY *v.* EASY WASHING MACHINE CORPORATION

GENERAL ELECTRIC SUPPLY CORPORATION *v.* THE MAYTAG COMPANY

Nos. 76, 77, and 661. Decided May 22, 1939

PATENTS—VALIDITY—FAILURE TO FILE DISCLAIMER SEASONABLY.

Snyder Patent No. 1,866,779 *Held* void because of failure of owner seasonably to disclaim or sue upon claim 39, held to be for the same method as claim 38 which had previously been held invalid and had been disclaimed.

NOS. 76 AND 77 ON WRITS of certiorari to the United States Circuit Court of Appeals for the Second Circuit. Affirmed.

No. 661 ON WRIT of certiorari to the United States Circuit Court of Appeals for the Eighth Circuit. Reversed.

Mr. Wallace R. Lane (*Mr. Thomas G. Haight*, *Mr. Nelson E. Johnson*, and *Mr. Oscar W. Jeffery* with him on the brief) for The Maytag Company.

Mr. William H. Davis (*Mr. Dean S. Edmonds*, *Mr. Charles W. Riley*, *Mr. George E. Faithfull*, and *Mr. W. Peters Blanc* with him on the brief) for Hurley Machine Co. and Electric Household Utilities Corporation.

Mr. Justice ROBERTS delivered the opinion of the Court.

These are patent infringement suits in which certiorari was granted because of a conflict of decision.[1] Apparatus claims 23, 26, and 29 of the Snyder patent, No. 1,866,779, which are here involved, have been held invalid in the second circuit by reason of anticipation; and have been adjudged valid in the eighth circuit. We need not resolve the conflict, since we are of opinion the patent is void for failure to disclaim claim 39.

The patent, issued July 12, 1932, to the Maytag Company as assignee, contains 39 claims, 36 of which are for a washing machine and three (Nos. 1, 38, and 39) for a method of washing fabrics. In 1935 the company obtained a decree in a suit against the Brooklyn Edison Company for infringement of apparatus claims 23 and 26 and method claim 38.[2] The Circuit Court of Appeals for the second circuit reversed as to all three claims, holding they did not disclose novelty.[3] This Court refused certiorari and the company promptly disclaimed two of the method claims, 1 and 38, but did not disclaim 39. In the instant cases infringement of apparatus claims 23, 26, and 29, is charged, but claim 39 is not in suit, nor has it been made the basis of any other suit.

There has been unreasonable neglect or delay in entering a disclaimer of claim 39 within the meaning of R. S. 4917, and R. S. 4922,[4] unless that claim is "definitely distinguishable from the parts claimed without right",—that is, the disclaimed method claims 1 and 38. This must be so, for the company, by disclaiming those claims, has confessed that the patentee therein claimed "more than that of which he was the original or first inventor or discoverer" and that the company, as assignee of the patent, therefore, "did not choose to claim or to hold" the method therein disclosed "by virtue of the patent or assignment".

Thus the company elected the course it would pursue with knowledge of the options open to it. Claim 38, which had been adjudged invalid, need not have been disclaimed, but, alone or with other claims, might have been made the basis of another suit against a different party—the petitioner in No. 661, for example.[5] If the claims were held invalid in such later suit the court might find the patent wholly void, for failure seasonably to disclaim.[6] To avoid the risk of such a possible outcome, the company chose the other alternative of disclaiming 38, and relying on other claims.[7] In the Brooklyn Edison case the district court said concerning claim 1,

"The quoted verbiage is different from that of claim 38, but the same method or process is thought to be equally embodied in both."[8]

This expression presumably caused the company also to disclaim claim 1 as not "definitely distinguishable" from claim 38.

If claim 39 describes the same method as claim 38, it follows that failure either to sue on 39 or to disclaim it along with 38 invalidates the patent.

The two are copied in the margin.[9] We think

[1] *Maytag Co.* v. *Brooklyn Edison Co.*, 86 F.(2d) 625; *Maytag Co.* v. *Easy Washing Mach. Corp.*, 96 F.(2d) 87; *General Electric Supply Corp.* v. *Maytag Co.*, 100 F.(2d) 218.

[2] 11 F. Supp. 743.

[3] *Maytag Co.* v. *Brooklyn Edison Co.*, *supra*.

[4] 35 U. S. C. §§ 65 and 71.

[5] *Triplett* v. *Lowell*, 297 U. S. 638, 642.

[6] Ibid 645.

[7] Compare *Ensten* v. *Simon, Ascher & Co.*, 282 U. S. 445.

[8] 11 F. Supp. 758.

[9] The difference in verbiage relied on to distinguish the claims is italicized.

38. The method of washing fabrics by forcing cleansing liquid through and around them while substantially suspended by the action of the fluid, as distinguished from pulling fabrics through the fluid against scrubbing corrugations, or otherwise scrubbing them by mechanical means, comprising immersing the fabrics in a washing fluid in a container, then vigorously and rapidly impelling the washing fluid in one and then in an opposite outward circulatory direction away from the plane of the source of impulsion and through the fabrics and circumferentially along the interior of the container in rapid succession, and causing these violently opposed currents of fluid to meet and flow inwardly and toward *the central portion of the container*, and toward the source of *impulsion thereby substantially suspending the fabrics in the fluid and cleansing them while thus suspended.*

39. The method of washing fabrics by forcing cleansing fluid through them while substantially suspended by the action of the fluid, as distinguished from pulling fabrics through the fluid against scrubbing corrugations, or otherwise scrubbing them by mechanical means, comprising immersing the fabrics in a washing fluid in a container, then vigorously agitating the washing fluid and rapidly forcing it toward the fabrics and away from the plane of the source of agitation vertically along the interior surface of the container first in one and then in an opposite circumferential direction, back and forth through and around the fabrics, and causing the violently moving opposed currents of liquid to meet and flow *inwardly and vertically toward the source of agitation* whereby *the fabrics are caused to be freely moved about by the action of the fluid and cleansed while thus moved.*

they describe but a single method. The company insists that the crucial difference lies in the fact that in 38 the moving fluid in the tub is said substantially to suspend the fabrics, whereas in 39 the same agency is said to cause the fabrics to be freely moved about. But the difference in verbiage describes no difference in operation or result. We conclude that, when read in their entirety, they describe the same method.

The decrees in Nos. 76 and 77 are affirmed; that in No. 661 is reversed.

Supreme Court of the United States

THE ELECTRIC STORAGE BATTERY COMPANY

v.

GENZO SHIMADZU AND NORTHEASTERN ENGINEERING CORPORATION

No. 441. Decided April 17, 1939

1. PATENTS—SECTION 4886 R. S.

Section 4886 R. S. "makes the criterion of novelty the same whether the invention was conceived abroad or in this country. The test is whether the invention was 'known or used by others in this country, before his invention or discovery thereof' • • • The elements which preclude patentability are a patent, or a description in a printed publication in this or any foreign country, which antedates the invention or discovery of the applicant.

"None of the statutes has ever embodied as an element the place of invention or discovery, but the change effected by the act of 1836, and carried forward in all succeeding statutes, is the fixation of the actual date of the inventive act as the date prior to which the invention must have been known or used to justify denial of a patent for want of novelty. The omission of any limitation as to the place of invention or discovery precludes a ruling imposing such a limitation, especially so since the act of 1870 expressly limited the area of prior knowledge or use to this country."

2. SAME—SECTION 4887 R. S.

The last sentence of the second paragraph of section 4887 R. S. "expressly preserves the bars of more than two years' prior patenting, description in a printed publication before the filing of application in this country, and public use, more than two years before such filing. But the section does not contain any provision which precludes proof of facts respecting the actual date of invention in a foreign country to overcome the prior knowledge or use bar of section 4886."

3. SAME—SECTION 4923 R. S.

The effect of section 4923 R. S. "is that in an interference between two applicants for United States patent, or in an infringement suit where the alleged infringer relies upon a United States patent, the application and patent for the domestic invention shall have priority despite earlier foreign knowledge and use not evidenced by a prior patent or a description in a printed publication.

"The section, on its face, is without application where the litigation is between the patentee of a foreign invention, or his assignee, and an alleged infringer who defends only in virtue of prior knowledge or use not covered by a patent."

4. SAME—VALIDITY AND INFRINGEMENT—ACTUAL DATE OF INVENTION MADE ABROAD MAY BE SHOWN.

Where an inventor conceived and reduced to practice certain inventions in Japan in 1919 and the inventions were not published or patented or disclosed to anyone in this country before the filing of applications here in January, 1922, July, 1923, and April, 1926, *Held* that in a suit for infringement of the patents granted thereon where the defendant pleaded public use of the inventions in this country in June, 1921, the patentee's date of invention is not limited to the dates of his applications, but he is entitled to show his earlier date of actual invention in Japan.

5. SAME—SAME—ABANDONMENT OF INVENTION.

"A patent is not validly issued if the invention 'is proved to have been abandoned'. Abandonment may be evidenced by the express and voluntary declaration of the inventor; it may be inferred from negligence or unexplained delay in making application for patent; it may be declared as a consequence of the inventor's concealing his invention and delaying application for patent in an endeavor to extend the term of the patent protection beyond the period fixed by the statute. In any case the question whether the invention has been abandoned is one of fact."

6. SAME—SAME—ABANDONMENT OF INVENTION NOT CONSIDERED WHERE NOT PLEADED BY DEFENDANT.

Where a defendant in an infringement suit did not plead the defense of abandonment of invention, *Held* the delay of the inventor in filing application for patent after he had conceived and reduced the invention to practice does not justify a holding of abandonment.

7. SAME—SAME—PUBLIC USE.

"A mere experimental use is not the public use defined by the act, but a single use for profit, not purposely hidden, is such. The ordinary use of a machine or the practise of a process in a factory in the usual course of producing articles for commercial purposes is a public use."

8. SAME—SAME—SHIMADZU PATENTS NOS. 1,584,150 AND 1,896,020.

Shimadzu patents, Nos. 1,584,150 and 1,896,020, *Held* invalid on the ground inventions claimed therein had been in public use in this country for more than two years before the applications for patent were filed.

9. SAME—SAME—SHIMADZU PATENT NO. 1,584,149.

Where the patentee showed conception and reduction to practice of the invention in Japan in 1919 and the invention was not published or patented or communicated to anyone in this country before January 30, 1922, when the application for patent was filed, *Held* that the defense of prior public use is not made out by a public use of the invention in this country in June, 1921.

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Third Circuit. Reversed and remanded.

Mr. Hugh M. Morris (*Mr. Augustus B. Stoughton, Mr. A. F. Kwis, Mr. E. S. Farnum, Jr.*, and *Mr. Alexander L. Nichols* with him on the brief) for The Electric Storage Battery Company.

Mr. Edmund B. Whitcomb and *Mr. George Whitefield Betts, Jr.*, for Genzo Shimadzu and Northeastern Engineering Corporation.

Mr. Justice ROBERTS delivered the opinion of the Court.

The courts below have held valid and infringed certain claims of three patents[1] granted to Genzo Shimadzu, a citizen and resident of Japan. The earliest is for a method of forming a finely divided and, consequently, more chemically reactive, lead powder. The second is for a method or process of manufacturing a fine powder composed of lead suboxide and metallic lead and for the product of the process. The third is for an apparatus for the continuous production of lead oxides in the form

[1] 1,584,149, May 11, 1926, claims 1 and 2; 1,584,150, May 11, 1926, claims 1 to 4, 6, and 8 to 13; and 1,896,020, Jan. 31, 1933, claims 10 and 11.

of a dry fine powder. Such powder is useful in the manufacture of plates for storage batteries.

The bill was filed by the respondents as patentee and exclusive licensee. The answer denied that Shimadzu was the first inventor; asserted knowledge and use of the invention by the petitioner in the United States more than two years prior to the dates of the applications; and pleaded that earlier patents procured by Shimadzu in Japan avoided the United States patents as the former were for the same inventions and each was granted more than a year prior to the filing of the corresponding application in this country. The case was tried, the district court found the facts, stated its conclusions, and entered a decree for the respondents,[2] which the circuit court of appeals affirmed.[3] The petitioner sought certiorari alleging that the case presents three questions, one which should be settled by this Court and two which were decided below contrary to our adjudications.

The questions are: In an infringement suit by the owner of a patent for an invention, made but not patented or published abroad, to restrain an innocent use, the inception of which antedates the application for patent, may the plaintiff prove that his actual date of invention was earlier than the commencement of the asserted infringing use? Is the delay of the patentee in this case in applying for patent a bar to relief for alleged infringement? Does commercial use of the patented process and apparatus in the alleged infringer's plant for more than two years prior to the application for patent preclude redress?

No controversy of fact is involved as the petitioner concedes it must accept the concurrent findings of the courts below.[4] The relevant facts lie within a narrow compass.

The inventions which are the basis of the patents were conceived by Shimadzu and reduced to practise in Japan not later than August, 1919. He did not disclose the inventions to anyone in the United States before he applied for United States patents. Application was presented for No. 1,584,149 on January 30, 1922; for No. 1,584,150 on July 14, 1923; and for No. 1,896,020 on April 27, 1926. The inventions were not patented or described in a printed publication in this or any foreign country prior to the filing of the applications. The petitioner, without knowledge of Shimadzu's inventions, began the use of a machine, which involved both the method and the apparatus of the patents, at Philadelphia, Pennsylvania, early in 1921 and attained commercial production in June, 1921. Over the objection of the petitioner the respondents were permitted by testimony, and by the introduction of contemporaneous drawings and notebooks, to carry the date of invention back to August, 1919, and the courts below fixed that as the date of invention and reduction to practise in Japan.

First. The petitioner asserts that R. S. 4886, 4887, and 4923,[5] considered together, require one who has made an invention abroad to take as his date of invention the date of his application in the United States unless, prior thereto, the invention has been communicated and described to someone in this country, or has been patented abroad. The respondents insist that the sections have no such force. They say that where the alleged infringer is not acting under the supposed protection of a prior patent, but is using an unpatented process or device, the holder of a patent for a foreign invention, like the holder of one for an invention made here, may show novelty by proving that his invention antedated his application and the infringing use.

[1] The solution of the issue requires examination of two of the sections in the light of their development from earlier patent statutes.

R. S. 4886, as it stood when the patents were granted,[6] was:

"Any person who has invented or discovered any new and useful art, machine, manufacture, or composition of matter, or any new and useful improvements thereof, not known or used by others [in this country], [before his invention or discovery thereof], and not patented or described in any printed publication in this or any foreign country, before his invention or discovery thereof, [or more than two years prior to his application], and not in public use or on sale [in this country] for more than two years prior to his application, unless the same is proved to have been abandoned, may, upon payment of the fees required by law, and other due proceeding had, obtain a patent therefor."

The legislative history of the section may be briefly outlined. The Patent Act of 1790[7] authorized the grant of a patent to "any person or persons" who made an invention "not before known or used". The succeeding act of 1793[8] confined the privilege to "a citizen or citizens of the United States", but the act of 1800[9] conferred it on any alien who, at the time of his application, had resided for two years within the United States. By the act of 1836[10] it was provided that a patent might be obtained by "any person or persons". The act of 1870,[11] which was carried into the Revised Statutes, added the words "in this country" as they appear in the first bracket in the foregoing quotation. The act of 1897[12] added the three other bracketed clauses.

The requirement of the act of 1790 was that the discovery be "not before known or used". The act of 1793 amended this to read "not known or used before the application". The act of 1800 altered the provision so that the petitioner had to swear that his invention had not "been known or used either in this or any foreign country". The act of 1836 changed the knowledge and use clause to read "not known or used by others before his or their discovery or invention thereof".

[2] 17 F. Supp. 42.
[3] 98 F.(2d) 831.
[4] At the trial the respondents relied, to some extent, upon an adjudication in an interference proceeding between Shimadzu and Hall, an employe of the petitioner who in 1924 applied for a patent for a process of producing finely powdered mixed lead and lead oxide. See *Hall v. Shimadzu*, 59 F.(2d) 225. The courts below have held that this interference has no bearing upon the present controversy and their holding in this respect involves questions of fact. As the respondents did not cross-petition they may not, in this Court, attack the findings in question.

[5] U. S. C. Tit. 35, §§ 31, 32, 72.
[6] The section was amended by the act of May 23, 1930, c. 312, § 1, 46 Stat. 376, to authorize the patenting of inventions of certain plants.
[7] Act of Apr. 10, 1790, § 1, 1 Stat. 109.
[8] Act of Feb. 21, 1793, § 1, 1 Stat. 318.
[9] Act of Apr. 17, 1800, § 1, 2 Stat. 37.
[10] Act of July 4, 1836, § 6, 5 Stat. 117, 119.
[11] Act of July 8, 1870, c. 230, § 24, 16 Stat. 198, 201.
[12] Act of Mar. 3, 1897, c. 391, § 1, 29 Stat. 692.

These successive alterations throw into relief the fact that the section makes the criterion of novelty the same whether the invention was conceived abroad or in this country. The test is whether the invention was "known or used by others in this country, before his invention or discovery thereof" . . . The elements which preclude patentability are a patent, or a description in a printed publication in this or any foreign country, which antedates the invention or discovery of the applicant.

None of the statutes has ever embodied as an element the place of invention or discovery, but the change effected by the act of 1836, and carried forward in all succeeding statutes, is the fixation of the actual date of the inventive act as the date prior to which the invention must have been known or used to justify denial of a patent for want of novelty. The omission of any limitation as to the place of invention or discovery precludes a ruling imposing such a limitation, especially so since the act of 1870 expressly limited the area of prior knowledge or use to this country.

The provisions of R. S. 4886 which affect the question are not modified by R. S. 4887, the purpose of which is to permit the filing of applications for the same invention in foreign countries and in the United States. It derives from section 25 of the act of 1870.[13]

[2] The second paragraph of the section, which was added by the act of 1903 [14] to comply with reciprocal agreements with foreign countries, gives the same force and effect to the filing of an application in a foreign country as it would have if filed here on the date on which the application for patent was first filed in the foreign country, provided that the domestic application is filed within twelve months of the foreign filing date. The last sentence of the paragraph expressly preserves the bars of more than two years' prior patenting, description in a printed publication before the filing of application in this country, and public use, more than two years before such filing. But the section does not contain any provision which precludes proof of facts respecting the actual date of invention in a foreign country to overcome the prior knowledge or use bar of § 4886.

[3] The petitioner also relies upon R. S. 4923, which provides that if the patentee, at the time of his application, believed himself the original or first inventor, his patent shall not be refused or held void by reason of the invention having been known or used in a foreign country, before his invention or discovery, if it had not been patented or described in a printed publication. The effect of this section is that in an interference between two applicants for United States patent, or in an infringement suit where the alleged infringer relies upon a United States patent, the application and patent for the domestic invention shall have priority despite earlier foreign knowledge and use not evidenced by a prior patent or a description in a printed publication.

[13] § 25, 16 Stat. 201.
[14] Act of Mar. 3, 1903, § 1, c. 1019, 32 Stat. 1226.

The section, on its face, is without application where the litigation is between the patentee of a foreign invention, or his assignee, and an alleged infringer who defends only in virtue of prior knowledge or use not covered by a patent.

[4] While this Court has never been called upon to decide the precise question presented, the lower Federal courts have refused to extend § 4923 to such a case. They have held that § 4886 does not limit the plaintiff to the date of application in this country but that he may prove the invention was in fact made at an earlier date, as could the owner of an invention made in the United States.[15]

There is force in the petitioner's argument that the distinction seems illogical. Thus, if a diligent domestic inventor applies, in good faith believing himself to be the first inventor, section 4923 assures him a patent and gives it priority, despite prior foreign use, even though that use is evidenced by a patent applied for after the invention made in this country. The foreign applicant or patentee cannot carry the date of his invention back of the date of application in this country, as the holder of a later patent for an invention made here would be permitted to do in order to establish priority. On the other hand, a domestic inventor who is willing to dedicate his invention to the public may be held as an infringer by reason of the later patenting of an invention abroad which antedates the invention and use in this country; and so is put in a worse position vis à vis a foreign inventor who subsequently secures a patent, and succeeds in establishing an earlier date of invention, than he would occupy if he had promoted his own interest by procuring a patent.

We have no way of knowing whether the discrimination results from inadvertence or from some undisclosed legislative policy, but, in order to redress the disadvantage under which one in the petitioner's situation suffers, we should have to read into the law words which plainly are missing.[16] We cannot thus rewrite the statute.[17] Moreover, sections 4886 and 4887 have repeatedly been amended and other portions of the Patent Act have been revised and amended from time to time since the decisions pointing out that section 4886 did not prevent the foreign inventor from carrying back his date of invention beyond the date of his application. Congress has not seen fit to amend the statute in this respect and we must assume that it has been satisfied with, and adopted, the construction given to its enactment by the courts.[18]

[15] *Hanifen* v. *E. H. Godshalk Co.*, 78 Fed. 811; *Welsbach Light Co.* v. *Incandescent Lamp Co.*, 98 Fed. 613; *Badische Anilin & Soda Fabrik* v. *Klipstein & Co.*, 125 Fed. 543; *Claude Neon Lights, Inc.*, v. *Rainbow Light, Inc.*, 47 F.(2d) 345.
[16] The petitioner would have us insert in § 4886, for the third time, the words "in this country" which Congress has twice inserted in the section by amendment. The petitioner's argument requires us to read the section as if the phrase "in this country" appeared between the words "discovery thereof" and the words "and not patented".
[17] *Dewey* v. *United States*, 178 U. S. 510.
[18] *Sessions* v. *Romadka*, 145 U. S. 29, 41–42; *Manhattan Properties, Inc.*, v. *Irving Trust Co.*, 291 U. S. 320, 336; *United States* v. *Elgin J. & E. R. Co.*, 298 U. S. 492, 500; *Missouri* v. *Ross*, 299 U. S. 72, 75.

We are of opinion that the courts below were right in not limiting Shimadzu's date of invention to the date of his application but allowing him to show an earlier actual date.

[5] Second. A patent is not validly issued if the invention "is proved to have been abandoned".[19] Abandonment may be evidenced by the express and voluntary declaration of the inventor;[20] it may be inferred from negligence or unexplained delay in making application for patent;[21] it may be declared as a consequence of the inventor's concealing his invention and delaying application for patent in an endeavor to extend the term of the patent protection beyond the period fixed by the statute.[22] In any case, the question whether the invention has been abandoned is one of fact.[23]

Referring to a Japanese patent applied for November 27, 1920, and issued May 10, 1922, the district court found:

"We are not concerned with the motives which prompted him . . . to confine it [the Japanese patent] to the single step of mechanical removal of the dust from the drum, and to withhold the really essential steps of the invention for later patenting. It is sufficient to say that he had the right to do this if he chose."

Taken in connection with the court's finding that Shimadzu's inventions were conceived and reduced to practise in August, 1919, this finding is said to convict him of intentional and inexcusable concealment. In the light of the record we are unable so to hold.

[6] R. S. 4920 [24] makes abandonment an affirmative defense which must be pleaded and proved.[25] Admittedly the defense was not pleaded and the respondents assert, without contradiction, that it was not relied upon in brief or argument in the courts below. The petitioner explains its failure so to plead by saying that, when it filed its answer, it believed that certain of the Japanese patents issued to Shimadzu covered the identical inventions described in the patents in suit and invalidated the latter because application was not made in this country within one year of the grant of the foreign patents as required by R. S. 4887. The claim is that the refusal to sustain this defense and the assignment of August, 1919, as the date of invention, took petitioner by surprise; and that the question of Shimadzu's concealment of his invention from 1919 until he made his applications in the United States did not emerge until the district court's decision was rendered.

We think this is not a sufficient excuse for not pleading the defense. Alternative and inconsistent defenses may be pleaded.[26] Certainly if the petitioner was surprised it could at least have requested an opportunity to amend its answer. If the defense had been pleaded originally or by amendment the respondents would have had an opportunity to meet it by proof and this they appear not to have been afforded. We have a finding which seems not to have been addressed to this issue; and no findings as to the circumstances which led to the delay in filing applications. In the circumstances we think we are not justified in assigning to the findings below the force of a finding that Shimadzu, with intent, concealed his invention and delayed making applications for the purpose of unduly extending the life of his patents—a defense not pleaded.

Third. If a valid patent is to issue, the invention must not have been in public use in this country for more than two years prior to the filing of the application.[27] Such public use is an affirmative defense to be pleaded and proved.[28] The respondents insist that it was not pleaded in this case and that the findings respecting the defense, on which the petitioner relies, are unsupported by the evidence. We cannot agree with either position.

Although not required so to do, the respondents in their bill pleaded with respect to each of the patents that the invention had not been in public use for more than two years before application filed. The petitioner denied the allegation as to each patent and, in addition, alleged that it was successfully making and selling the product of the invention in its plant long before it ever learned of Shimadzu's existence or his inventions, and further asserted that—

"the claims of said Letters Patent are invalid and void because the subject matter thereof was, prior to the alleged invention thereof by Shimadzu, and for more than two years prior to his application dates, known to and used by the defendant at Philadelphia, Pennsylvania, . . ."

Upon the trial, employes of the petitioner described an early apparatus and process used in 1918 and 1919 and abandoned in the latter year when experiments began towards employment of the apparatus and process the petitioner now uses. They testified to the increasing perfection of the apparatus and process during the early months of 1921, and that commercial production was accomplished sometime between April and June of that year. Former employes of the petitioner were called by the respondents and described this apparatus and process as used and practised in the petitioner's plant in Philadelphia subsequent to the date of Shimadzu's applications, but the evidence indicates that, after its perfection in 1921, the same apparatus has been used, and the same process practised, from that date to the present. This is the apparatus and process which the courts below have held to infringe. The district court found—

"commercial production by the Hardinge mill with its forced air draft undoubtedly involved the use of the plaintiff's patent, and June, 1921, may be fixed as the date when that began."

The respondents insist that this does not amount to a finding of prior public use, distinguishing be-

[19] R. S. 4886, supra.
[20] *Kendall* v. *Winsor*, 21 How. 322, 329; *U. S. Rifle & Cartridge Co.* v. *Whitney Arms Co.*, 118 U. S. 22, 25.
[21] *Consolidated Fruit-Jar Co.* v. *Wright*, 94 U. S. 92, 96; *U. S. Rifle & Cartridge Co.* v. *Whitney Arms. Co.*, supra, p. 25.
[22] *Kendall* v. *Winsor*, supra, p. 328; *Macbeth-Evans Glass Co.* v. *General Electric Co.*, 246 Fed. 695; *Bliss Co.* v. *Southern Can Co.*, 251 Fed. 903; *Victor Talking Machine Co.* v. *Starr Piano Co.*, 281 Fed. 60.
[23] *Pennock* v. *Dialogue*, 2 Pet. 1, 16.
[24] U. S. C. Tit. 35, sec. 69.
[25] *Crown Cork Co.* v. *Gutmann Co.*, 304 U. S. 159, 165. Compare *Mumm* v. *Decker & Sons*, 301 U. S. 168, 171.
[26] *Jones* v. *Sewall*, 13 Fed. Cas. 1017, 1028; *Specialty Brass Co.* v. *Sette*, 22 F.(2d) 964, 966; *Walsh* v. *Wahle Co.*, 25 F.(2d) 350, 351.
[27] R. S. 4886, supra.
[28] R. S. 4920, supra; *Klein* v. *Seattle*, 63 Fed 702; *Hookless Fastener Co.* v. *Rogers Co.*, 26 F.(2d) 264.

tween the court's phrase "commercial production" and the designation "public use" found in the statute. We think the position is untenable.

The finding of the district court appears under a heading in its opinion entitled "Alleged prior public use". As originally promulgated the finding fixed January, 1921, as the date of commercial production. The respondents sought a rehearing and asked that the finding as to commercial production in January, 1921, be revised. A rehearing was granted and the district judge filed a memorandum amending his opinion. In this he said:

"As to the second statement of fact, it may be said at once that it was never intended by the court to make a finding of a prior public use (in the statutory sense of that term) by the defendant in January, 1921."

After discussing the use of the apparatus in the early months of 1921, the court said:

"It is therefore plain that there is no evidence of anything beyond an experimental use by the defendant earlier than about the middle of the year 1921. It is entirely possible that the word 'January' in the second statement of fact referred to above is a mere typographical error and that what the court had in mind was, 'June'. However that may be and in order to avoid any possible misunderstanding as to the scope of the finding, I will amend it to read 'Commercial production by the Hardinge mill with its forced air draft undoubtedly involved the use of the plaintiff's patent, and June, 1921, may be fixed as the date when that began.'"

Both parties appealed to the circuit court of appeals. That the respondents understood the force and effect of the finding as to prior use is evident from their assignments, one of which is that the district court erred—

"in finding and adjudging that commercial production by the Hardinge mill with its forced draft involving the use of plaintiff's patent began in June, 1921."

It remains to determine whether the commercial use found is, in contemplation of law, a public use within the meaning of R. S. 4886. We hold that it is.

The earlier acts provided that the bar should consist in public use or sale "with the applicant's consent or allowance prior to the application".[29] The act of 1839[30] altered the clause to read "no patent shall be held to be invalid" except upon proof that "such . . . prior use has been for more than two years prior to such application for a patent." This Court construed the later act, which has been carried forward into the revised statutes, as rendering prior public use a bar whether the use was with or without the consent of the patentee.[31]

Decisions turning on prior public use have been numerous both in this Court and in other Federal courts; and the definition of such use, formulated when the statute made only use by consent a bar, has been adopted in instances where the use was without consent or knowledge of the applicant for patent.[32]

[7] A mere experimental use is not the public use defined by the act,[33] but a single use for profit, not purposely hidden, is such.[34] The ordinary use of a machine or the practise of a process in a factory in the usual course of producing articles for commercial purposes is a public use.[35]

[8] In the present case the evidence is that the petitioner, since June, 1921, has continuously employed the alleged infringing machine and process for the production of lead oxide powder used in the manufacture of plates for storage batteries which have been sold in quantity. There is no finding, and we think none would have been justified, to the effect that the machine, process, and product were not well known to the employes in the plant, or that efforts were made to conceal them from anyone who had a legitimate interest in understanding them.[36] This use, begun more than two years before Shimadzu applied for Patents 1,584,150 and 1,896,020, invalidated them.

[9] Fourth. The defense of prior public use is not made out against Patent 1,584,149, for which application was filed January 30, 1922. The defendant's commercial production commenced about six months earlier. The district court held the patent valid and infringed. Its claims cover merely a process for the production of a finely divided chemically reactive lead powder by introducing relatively large masses of lead into a rotatable vessel, rotating the vessel at a relatively low speed, forming the powder by attrition resulting from the rubbing of the masses against each other, and blowing the powder from the vessel by a current of air. The process and apparatus covered by the other two patents in issue involve use and control of an air current and use and control of temperature within the receptacle for the oxidation of the lead. With respect to 1,584,149 the trial court said:

"Whether or not '149 is for the same process as U. S. Patent '150 is immaterial, so far as the question of validity of either is concerned. There is no double patenting involved. The two patents issued on the same day. They both expired on the same day. There can be no extension of the monopoly and one is not prior art against the other.

"The fact that '149 does not disclose the oxidizing function of the air or refer to the highly important element of the process having to do with the temperature control necessary to its successful operation might throw doubt upon its validity in view of the prior art. This is, of course, upon the assumption that it is not for the same invention as '150. The whole matter however is rather academic since '149 is coincident in duration with '150, and the defendant's process infringes the somewhat more precise, if not narrower, claims of '150.

"This patent is therefore held valid and infringed."

The holding was assigned as error in the circuit court of appeals and is specified as error in the petition for certiorari.

In view of our decision that 1,584,150 is invalid and of the basis of the decision below respecting 1,584,149, we think the petitioner is entitled to a reexamination of the questions of the validity and infringement of the latter.

The decree of the circuit court of appeals must be reversed and the cause remanded to the district court with directions to dismiss the bill as to Nos. 1,584,150 and 1,896,020, and to proceed, in the light of the invalidity of those patents, to determine whether 1,584,149 is valid and infringed.

It is so ordered.

[29] Act of July 4, 1836, sec. 7, 5 Stat. 117, 119.
[30] Act of Mar. 3, 1839, sec. 7, 5 Stat. 353, 354.
[31] *Andrews* v. *Hovey*, 123 U. S. 267; on rehearing, 124 U. S. 694.
[32] *Detroit Lubricator Co.* v. *Lunkenheimer*, 30 Fed. 190; *United States Electric Lighting Co.* v. *Edison Lamp Co.*, 51 Fed. 24, 28; *Front Rank Steel Furnace Co.* v. *Wrought Iron Range Co.*, 63 Fed. 995, 998; *A. Schrader's Sons, Inc.*, v. *Wein Sales Corp.*, 9 F.(2d) 306, 308; *Twyman* v. *Radiant Glass Co.*, 56 F.(2d) 119; *In re Martin*, 74 F.(2d) 951; *Paraffine Co.* v. *Everlast*, 84 F.(2d) 335; *Becker* v. *Electric Service Supplies Co.*, 98 F.(2d) 366.
[33] *Elizabeth* v. *Pavement Co.*, 97 U. S. 126, 134.
[34] *Consolidated Fruit-Jar Co.* v. *Wright*, supra, 94; *Egbert* v. *Lippmann*, 104 U. S. 333, 336.
[35] *Manning* v. *Cape Ann Isinglass Co.*, 108 U. S. 462, 465; *Twyman* v. *Radiant Glass Co.*, supra; *Paraffine Co.* v. *Everlast*, supra, pp. 338, 339.
[36] Compare *Hall* v. *Macneale*, 107 U. S. 90, 96–97.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,482,197, W. D. Kimball, Carton-closing machine with automatic stop mechanism; 1,503,126, Kimball & Rideout, Sealing machine for filled cartons; 1,815,571, same, Carton sealing machine, D. C., S. D. Calif., N. Div., Doc. E 20, *Standard-Knapp Corp.* v. *Elliott Mfg. Co.* Judgment dismissing without prejudice Mar. 21, 1939.

1,503,126. (See 1,482,197.)

1,511,816, Marston & Lawrence, Transfer and transfer ink; 1,899,420, W. S. Lawrence, Transfer and transfer composition; 1,939,821, same, Transfer and method of making same, C. C. A., 2d Cir., Doc. —, *Kaumograph Co.* v. *General Trade Mark Corp. et al.* Decree affirmed (notice Mar. 27, 1939).

1,543,140, J. T. Whitehouse, Jail door locking mechanism; 1,908,234, H. D. Garber, Opposed door jail construction, D. C., N. D. Ill., E. Div., Doc. 15515, *Van Dorn Iron Works Co.* v. *Great Lakes Construction Co. et al.* By stipulation, bill dismissed without prejudice Feb. 6, 1939.

1,574,546, J. E. Bell, Oil heating furnace; 1,574,547, same, Operation of oil stills; 1,623,773, same, Oil still, C. C. A., 3d Cir., Doc. 6578, *Globe Oil & Refining Co.* v. *Sinclair Refining Co.* Decree reversed Mar. 23, 1939.

1,574,547. (See 1,574,546.)

1,580,044, E. F. Horn, Turner or reverser, D. C., S. D. N. Y., Doc. E 86/295, *E. F. Horn* v. *B. B. Chester.* Consent order of discontinuance (notice Mar. 21, 1939).

1,623,773. (See 1,574,546.)

1,655,481, D. L. Van Leuven, Running gear; 1,926,727, G. L. Knox, Six wheel attachment for motor vehicles, D. C., S. D. Calif. C. Div., Doc. 262–H, *Six Wheel Corp. et al.* v. *C. E. Cook, et al.* Dismissed by plaintiffs Mar. 21, 1939.

1,694,638, R. W. Borrowdale, Attachment for printing presses; 1,863,465, same, Automatic jogger, filed Mar. 6, 1939, D. C., N. D. Ill., E. Div., Doc. 400, *Jogger Mfg. Corp.* v. *W. H. Roguemore (Multigraph Sales Agency).*

1,746,991, H. E. Bucklen, Electric windmill; 1,755,422, same, Wind mill drive; 1,792,212, Bucklen & Putt, Impeller; 1,802,094, H. R. Stuart, Turbine, D. C., N. D. Ill., E. Div., Doc. 15213, *Universal Battery Co. et al.* v. *Zenith Radio Corp. et al.* Claims 5, 11 and 13 of 1,802,094 held valid and infringed; claims 1 to 4 held invalid; claims 6, 9, 11, 12 and 13 of 1,746,991 held invalid; Patents 1,755,422 and 1,792,212 held not infringed. Bill dismissed as to 1,746,991, 1,792,212, and 1,755,422 June 14, 1938. Bill dismissed by mandate of C. C. A. Dec. 21, 1938. Decree of lower court modified Dec. 22, 1938.

1,755,422. (See 1,746,991.)

1,789,949, A. Georgiev, Electrolytic cell; 1,815,768, same, Electrolyte, D. C., S. D. N. Y., Doc. E 80/338, *Aerovox Corp.* v. *Condenser Corp. of America.* Dismissed without prejudice (notice Mar. 22, 1939).

1,791,527, P. L. Hoffman, Supporting device for overhead tracks, filed Mar. 10, 1939, D. C., N. D. Ill., E. Div., Doc. 412, *Richards-Wilcox Mfg. Co.* v. *Lawrence Bros. et al.*

1,792,212. (See 1,746,991.)

1,793,613, J. W. Hoefling, Accumulator bin for grain cleaning machines, D. C., N. D. Calif. (Sacramento), Doc. 1285–S, *Hoefling Bros., Inc.*, v. *M. L. Marler et al.* Patent held valid and defendants restrained Mar. 22, 1939.

1,802,094. (See 1,746,991.)

1,809,707, Jones, Jr. & McCallen, Mine car, filed Mar. 23, 1939, D. C. Va. (Richmond), Doc. 4461, *Sanford Investment Co., Inc., et al.* v. *Crab Orchard Improvement Co.*

1,815,571. (See 1,482,197.) 1,815,768. (See 1,789,949.)

1,815,768, A. Georgiev, Electrolyte, D. C., N. D. Ill., E. Div., Doc. 15639, *Aerovox Corp.* v. *S. P. Levenberg et al.* (*Condenser Products Co.*). On motion of plaintiff, bill dismissed without prejudice Mar. 10, 1939.

1,838,406, O. H. Jung, Fuse clamp, D. C., N. D. Ill., E. Div., Doc. 15367, *Trico Fuse Mfg. Co.* v. *J. W. Becker et al.* (*Ideal Commutator*). Consent decree, holding patent valid and infringed; injunction Jan. 4, 1939.

1,855,916, C. H. Keeney, Tufting attachment for sewing machine, filed Mar. 27, 1939, D. C., N. D. Ga. (Rome), Doc. 291, *Deltox Rug Co.* v. *Blue Ridge Spread Co., Inc.*

1,863,465. (See 1,694,638.)

1,893,608, F. C. Atwood, Casein solution and method of making same, D. C. Mass., Doc. 2, *Atlantic Research Associates, Inc.*, v. *The W. V. Williams Co., Inc.* Consent decree for plaintiff for injunction Feb. 2, 1939.

1,899,420. (See 1,511,816.) 1,908,234. (See 1,543,140.)

1,911,726, Tanner & Lodeesen, Production of phosphate coatings on metals, filed Feb. 21, 1939, D. C., N. D. Ill., E. Div., Doc. 378, *Parker Rust-Proof Co.* v. *Borg-Warner Corp.*

1,926,727. (See 1,655,481.) 1,939,821. (See 1,511,816.)

1,953,566, L. D. Pelk, Blasting machine, C. C. A., 3d Cir., Doc. 6684, *Pittsburgh Forgings Co. et al.* v. *American Foundry Equipment Co.* Patent held valid and infringed Mar. 23, 1939.

1,955,528, A. A. Berndt, Connector, D. C., N. D. Ill., E. Div., Doc. 15255, *Electroline Co.* v. *Reliable Electric Co.* Patent held invalid, bill dismissed Mar. 9, 1938. Mandate affirming decree of lower court Feb. 23, 1939.

1,970,848, R. S. Grant, Display window bag, C. C. A., 3d Cir., Doc. 6881, *Jaite-Grant Display Co.* v. *T. M. Royal & Co.* Decree affirmed Mar. 20, 1939.

1,974,535, A. M. Graffis, Motor vehicle, D. C., N. D. Ill., E. Div., Doc. 15403, *A. M. Graffis et al.* v. *Cadillac Motor Car Co. et al.* Dismissed with prejudice Feb. 9, 1939.

2,019,796, W. C. Phillips, Portable car cooler; 2,027,834, same, Car cooling device, D. C., N. D. Calif. (Sacramento), Doc. 1277, *Phillips Refrigeration Products, Inc.*, v. *A. R. Gilbreth et al.* Patent held valid, defendants restrained Mar. 8, 1939.

2,026,779, Faith & Klasstormer, Automobile accessory, D. C., N. D. Ill., E. Div., Doc. 15180, *Faith Mfg. Co.* v. *Franklin Die Casting Co.* Dismissed for want of prosecution Nov. 9, 1938.

2,027,834. (See 2,019,796.)

2,033,699, T. W. Frech, Electric projection lamp, C. C. A., 3d Cir., Doc. 6866, *General Electric Co.* v. *M. Yablonsky et al.* (*Dura Electric Co.*). Decree affirmed Mar. 20, 1939.

2,041,134, L. Kassler, Speed measuring apparatus, D. C., N. D. Ill., E. Div., Doc. 15486, *Elkay Mfg. Corp.* v. *Stewart-Warner Corp. et al.* Consent decree finding patent valid, and infringed by Stewart-Warner Corp., injunction; bill dismissed as to other defendants Mar. 1, 1939.

2,052,014, C. W. Chamberlain, Heat transfer method and apparatus, D. C., N. D. Ill., E. Div., Doc. 15368, *Kold-Hold Mfg. Co.* v. *Dole Refrigerating Co.* Dismissed without prejudice Jan. 7, 1939.

2,054,572, F. L. McKenna, Toggle clamp, filed Mar. 22, 1939, D. C., E. D. Mich., S. Div., Doc. 879, *Detroit Stamping Co.* v. *F. L. McKenna, Inc.*

2,086,365, F. C. Rehor, Necktie, D. C., E. D. N. Y., Doc. E 8522, *F. C. Rehor* v. *Frederick, Loeser & Co., Inc.* Dismissed Mar. 20, 1939.

2,090,672, M. H. Goldberg, Sign projection apparatus; Des. 105,948, same, Projector, filed Mar. 14, 1939, D. C., N. D. Ill., E. Div., Doc. 427, *I. J. London et al.* v. *Trav-L-Sign, Inc.*

2,108,100, M. Buono, Sewing machine, filed Mar. 23, 1939, D. C., E. D. N. Y., Doc. 281, *U. S. Blind Stitch Machine Corp.* v. *S. Abrahams.*

2,111,483, C. E. Trube, Electric coupling system, filed Mar. 21, 1939, D. C., N. D. Ill., E. Div., Doc. 442 *Hazeltine Corp.* v. *Sonora Radio & Television Corp.* Doc. 443, *Hazeltine Corp.* v. *Allied Radio Corp.*

2,147,178, Shreffler & Lesage, Front brake plate and radius arm tension spring, filed Mar. 21, 1939, D. C., N. D. Ill., E. Div., Doc. 441, *Automotive Improvement Co. et al.* v. *L. Reigle (Reigle Coil Brake Spring Co.).*

Re. 18,678, J. Ostermeier, Flash lamp, appeal filed Mar. 15, 1939, C. C. A., 1st Cir., Doc. 3441, *Munder Electrical Co. et al.* v. *General Electric Co.*

Re. 18,841, J. Mayer, Hair waving method, D. C., S. D. Calif., C. Div., Doc. E 1180–H, *The Philad Co.* v. *J. W. Perlow (Wave Products Co.).* Consent decree finding claims 2, 3, 4, and 5 of Re. 18,841 valid and infringed, claims 2, 8, 9, and 10 of Re. 17,393 held infringed, injunction Mar. 20, 1939.

Re 19,030, L. Sugerman, Twin-section egg carton, D. C., N. D. Ill., E. Div., Doc. 15473, *L. Benoit* v. *Spring Cushion Egg Carton Corp.* Dismissed on motion of plaintiff Feb. 24, 1939.

Des. 91,192, V. C. Grote, Container, filed Mar. 17, 1939, D. C., S. D. Iowa, C. Div., Doc. 21, *Camille, Inc.*, v. *F. W. Fitch Co.*

Des. 98,454, E. Conradsen, Manicurist kit, D. C., N. D. Calif. (San Francisco), Doc. E 4244–S, *E. Conradsen* v. *L. Newman.* Patent held valid but not infringed, dismissed Mar. 17, 1939.

Des. 99,286, J. D. Kennelly, Headlight, D. C., N. D. Ill., E. Div., Doc. 15235, *J. D. Kennelly* v. *S. G. Langher et al.* Consent decree finding patent valid and infringed, injunction Jan. 28, 1939.

Des. 105,948. (See 2,090,672.)

Des. 106,247, I. Salomon, Chair; Des. 109,790, same, Table; Des. 110,401, same, Manicure table; T. M. 353,100, Royal Metal Mfg. Co., Metal furniture, filed Feb. 17, 1939, D. C., N. D. Ill., E. Div., Doc. 369, *Royal Metal Mfg. Co. et al.* v. *Gibbs & Co. et al.*

Des. 109,790. (See Des. 106,217.)

Des. 110,401. (See Des. 106,217.)

Des. 111,774, A. A. Nudell, Decorative wall plaque, D. C., N. D. Ill., E. Div., Doc. 161, *Nu-Dell Mfg. Co.* v. *R. A. Grossman et al.* Dismissed for want of equity Dec. 13, 1938.

Des. 113,444, G. Trippe, Auxiliary lamp for vehicles, filed Mar. 17, 1939, D. C., N. D. Ill., E. Div., Doc. 435, *Trippe Mfg. Co. et al.* v. *Sears, Roebuck & Co.*

T. M. 223,538, E. T. Colburn, Pie crust and pie dough, D. C., N. D. Ill, E. Div., Doc. 2, *E. T. Colburn* v. *Puritan Mills, Inc.* Dismissed for want of equity Jan. 24, 1939.

T. M. 294,029, T. M. 330,084, The Chattanooga Medicine Co., Liver cathartic and laxative medicine, D. C., N. D. Ill., E. Div., Doc. 15586, *The Chattanooga Medicine Co.* v. *Prairie Drug Co. et al.* Decree finding infringement of plaintiff's trade-marks, injunction Jan. 12, 1939.

T. M. 330,084. (See T. M. 294,029.)

T. M. 353,100. (See Des. 106,217.)

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,006,005, Max Zaiger, Windshield heater, decided June 3, 1939, claim 5.

Pat. 2,084,159, A. H. Mittag, Electric valve system, decided June 10, 1939, claim 1.

Pat. 2,092,506, Jules Haltenberger, Wheel cover, decided May 23, 1939, claims 7 and 8.

Pat. 2,098,801, H. V. Erben, High voltage electric circuit interrupter, decided June 9, 1939, claims 1, 5, 6, 7, and 8.

Pat. 2,109,353, C. S. Hazard, Automatic zeroizing device for dispensing pumps, decided June 14, 1939, claim 22.

Disclaimers

Re. 20,316.—*Arthur H. Nellen,* Merion, Pa. VEHICLE TIRE. Patent dated March 30, 1937. Disclaimer filed June 8, 1939, by the assignee, *Lee Rubber & Tire Corporation.*

Hereby disclaims from the scope of claims 1 to 7, inclusive, and claims 11 to 13, inclusive, and each of them, all tire constructions other than those which conform to the language of any one or more of said claims and have cotton cords as the cords specified therein.

2,094,784.—*Edmund W. Bremer,* Weehawken Township, Hudson County, N. J. RESISTANCE WELDING ELECTRODE. Patent dated October 5, 1937. Disclaimer filed June 7, 1939, by the assignee, *Electroloy Company, Inc.*

Hereby enters this disclaimer to claims 1, 2, and 5 of said specification.

2,105,396.—*Hans A. Bakke,* Swampscott, Mass. ELECTRIC METER MOUNTING. Patent dated January 11, 1938. Disclaimer filed June 9, 1939, by the assignee, *General Electric Company.*

Hereby disclaims the improvement described in claim 5 except where the "circuit-closing jumper" is supported solely by the "terminal contact" to which it is attached and the "circuit-closing jumper" is adapted to be depressed toward the base of the receptacle, and your petitioner, hereby disclaims the improvement described in claim 11 except where the "circuit-closing jumper" is supported solely by the "terminal clip" to which it is attached and the "circuit-closing jumper" is adapted to be depressed toward the base of the receptacle.

2,111,769. *George De Witt Graves,* Wilmington, Del. LUBRICATING COMPOSITIONS. Patent dated March 22, 1938. Disclaimer filed June 14, 1939, by the assignee, *E. I. du Pont de Nemours and Company.*

Hereby enters this disclaimer as to claim 1 of said patent.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 4, 1939

[VOL. 504. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 402,846. JOHN A. COLBERT, doing business as Convenience Products Company, Watertown, Mass. Filed Feb. 9, 1938.

SHOVELESS



No claim is made to the word "Shoveless" used alone.
For Coal and Sand.
Claims use since November, 1936.

Ser. No. 406,966. B. D. EISENDRATH TANNING CO., Chicago, Ill. Filed June 1, 1938.

NAVAJO

For Leather.
Claims use since Apr. 21, 1938.

Ser. No. 418,574. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed Apr. 22, 1939.

PLIOWAX

For Resinous Material for Use in Lacquers, Paints, and Other Coating Compositions.
Claims use since Sept. 24, 1937.

Ser. No. 419,273. THE RESINOUS PRODUCTS & CHEMICAL COMPANY, Philadelphia, Pa. Filed May 10, 1939.

THERMOPLEX

For Synthetic Resinous Compounds.
Claims use since Apr. 24, 1939.

Ser. No. 419,372. FISHMAN & EBERHARD, New York, N. Y. Filed May 13, 1939.



For Dyed Fur Pelts.
Claims use since Apr. 1, 1939.

CLASS 2

Receptacles

Ser. No. 415,036. GENERAL MILLS, INC., Minneapolis, Minn. Filed Jan. 20, 1939.

KRISP-A-SURED

The word "Krisp" is disclaimed apart from the mark.
For Cartons or Receptacles of Paper or Cardboard for Cereals, Said Cartons or Receptacles Being Sold Empty in Trade.
Claims use since Jan. 14, 1939.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 418,207. JACOB NEUMANN, doing business as Crown Luggage Co., Baltimore, Md. Filed Apr. 13, 1939.

by CROWN

For Luggage—Namely, Traveling Bags and Cases and Trunks.
Claims use since 1914.

Ser. No. 419,416. COBLENTZ BAG CO., INC., New York, N. Y. Filed May 15, 1939.

HONEY

For Ladies' Handbags.
Claims use since Apr. 8, 1939.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 415,451. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Jan. 31, 1939.

GENERAL ELECTRIC

For Washing Compounds and Cleaning and Polishing Compounds for Painted or Enameled Surfaces or the Like.
Claims use since 1932.

Ser. No. 415,453. GENERAL ELECTRIC COMPANY, Schenectady, N. Y. Filed Jan. 31, 1939.



For Washing Compounds and for Cleaning and Polishing Compounds for Painted or Enameled Surfaces or the Like.
Claims use since 1932 on cleaning and polishing compounds; since May, 1938, on washing compounds.

Ser. No. 416,013. JOSEPH C. MCNALLY, Portland, Oreg. Filed Feb. 14, 1939.

TRISOPHÖN"

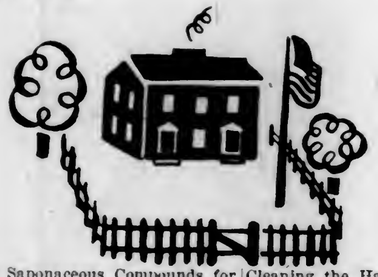
For Cleaners and Detergents Having Incidental Water Softening Properties, Used for Cleaning Fabrics, Painted Surfaces, Kitchen Utensils, and the Like.
Claims use since June 10, 1938.

Ser. No. 418,535. SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



For Saponaceous Compounds for Cleaning the Hands, Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing and Cleaning Purposes; Laundry Soaps; Soap Flakes; Hand Soaps; Toilet Soaps; Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since July 1, 1938.

Ser. No. 418,536. SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



For Saponaceous Compounds for Cleaning the Hands, Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing and Cleaning Purposes; Laundry Soaps; Soap Flakes; Hand Soaps; Toilet Soaps; Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since Aug. 1, 1938.

Ser. No. 418,537. SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



For Saponaceous Compounds for Cleaning the Hands;

Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since Aug. 1, 1938.

Ser. No. 418,538. SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



The figures are fanciful.
For Saponaceous Compounds for Cleaning the Hands; Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since Aug. 1, 1938.

Ser. No 418,539 SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



For Saponaceous Compounds for Cleaning the Hands; Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since Aug. 1, 1938.

Ser. No. 418,540. SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



The figure is fanciful.
For Saponaceous Compounds for Cleaning the Hands; Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since Aug. 1, 1938.

Ser. No. 418,541. SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



The figure is fanciful.
For Saponaceous Compounds for Cleaning the Hands; Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since Nov. 1, 1938.

Ser. No. 418,542. SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



For Saponaceous Compounds for Cleaning the Hands;

Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since July 1, 1938.

Ser. No. 418,544. SHULTON, INC., New York, N. Y. Filed Apr. 21, 1939.



The figures are fanciful.
For Saponaceous Compounds for Cleaning the Hands; Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since Jan. 3, 1939.

Ser. No. 419,096. SHULTON, INC., New York, N. Y. Filed May 5, 1939.



The figures are fanciful.
For Saponaceous Compounds for Cleaning the Hands; Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since July 1, 1938.

Ser. No. 419,097. SHULTON, INC., New York, N. Y. Filed May 5, 1939.



For Saponaceous Compounds for Cleaning the Hands; Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since Aug. 1, 1938.

Ser. No. 419,098. SHULTON, INC., New York, N. Y. Filed May 5, 1939.

A Stitch in Time Saveth Nine

For Saponaceous Compounds for Cleaning the Hands; Shaving Cream, Shaving Sticks, Shaving Powder, Outfit Packages Containing Soap and Towel; Soap Powder for Bathing, Washing, and Cleaning Purposes; Laundry Soaps, Soap Flakes, Hand Soaps, Toilet Soaps, Soap Pastes, Washing Tablets, Bath Tablets, and Shampoo Soaps.
Claims use since July 1, 1938.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 335,797. NICK A. GEORGE, Casper, Wyo. Filed Mar. 18, 1933.



The trade-mark is a portrait and the signature of the applicant.
For Medicinal Preparation to be Taken Internally for the Treatment of Rheumatic and Muscular Pains.
Claims use since May 13, 1932.

Ser. No. 406,802. FANNY GUERRIER NÉE POULAIN, Paris, France. Filed May 27, 1938.



The portrait is that of Monsieur L'Abbe Louis Marie Hamon. No claim is made to the representations of the containers and labels per se, or to any wording except "L'Abbe Hamon" and "Flatlux" apart from the association shown.
For Preparations Used in the Treatment of Diabetes, Albuminuria and Like Ailments, Rheumatism, Gout, Sciatica, Anemia, Puberty, Pallor, Turn of Life, Tape and Intestinal Worms, Nervous Complaints, Epilepsy, Whooping Cough, Children's Respiratory Ailments, Female Ailments, Diarrhoea, Enteritis, Obesity, Paralysis, Goitre, Skin Diseases, Impure Blood, Stomach Ailments, Circulatory Ailments, Varicose Veins, Congestion, Phlebitis, Piles, Tuberculosis, Coughs, Bronchitis, Diseases of the Heart, Kidneys, Liver, Urinary System, Constipation, Ulcers of the Stomach, Varicose Ulcers, Psoriasis, Sycosis, Various Fevers, Such as Marsh Fever, Etc.
Claims use since July, 1914.

Ser. No. 406,955. MCCLELLAND BARCLAY, New York, N. Y. Filed June 1, 1938.

TORSO

For Perfumes and Sets Containing Powder and Perfume.
Claims use since Feb. 1, 1938.

Ser. No. 410,271. PHILIP W. SIMONS, doing business as Raymor Food Products Co., Chicago, Ill. Filed Sept. 3, 1938.

RAYMOR
VEJ-O-LAX

For Therapeutic, Dehydrated, Concentrated Vegetable Supplemental Foods in Capsule and Tablet Form.
Claims use since August, 1936.

Ser. No. 410,648. FIRMENICH & CO., INC., New York, N. Y. Filed Sept. 16, 1938.

JASMANTHIA

For Natural and Synthetic Essential Oils Suitable for Perfuming Purposes, Astringents, Astringent Cerates, Bleach Creams, Beauty Creams, Cold Creams, Cleansing Creams, Obesity Creams, Refreshing Creams, Obesity Astringents, Dry Rouges, Liquid Rouges, Face Bleaches, Face Packs, Skin Whitener in Liquid, Cream, and Solid Form, Eyebrow and Eyelash Grower, Eye Drops, Eyebrow Pencils, Chemical Preparations Suitable for the Darkening of Eyebrows and Eyelashes, Hand Lotions, Skin Lotions, After Shaving Lotions, Pomades, Face Powders, Talcum Powders, Body Powders, Sachet, Hair Salves, Hair Elixirs, Dandruff Preparations, Hair Tonics, Hair Oil, Shampoos, Hair Dyes, Bath Salts, Smelling Salts, Lipsticks, Incense, Tooth Powders, Mouth Washes, Dentifrices, Depilatories, Tooth Pastes, Nail Creams, Nail Bleaches, Nail Powders, Witch Hazel, Peroxide, Petroleum Jellies, Witch Hazel Salves, Camphor Creams, Foot Powders, Corn Salves, Deodorants, Disinfectants, Bay Rum, Perfumes, Toilet Waters, Analgesic Balm, Headache and Neuralgia Preparations, Antiseptic Poultices, Antiseptic Liquid, Catarrhal Snuff, Ant-Paste, Aromatic Cascara, Arnica Salve, Infant Cough Preparations; Beef, Iron, and Wine; Saline Preparations for Bladder and Kidney Troubles, Alkaline Antiseptic Solutions for the Relief of Nasal Catarrh and Sore Throat, Tablets for the Breath, Bug-Killer, Camphor-Menthol for Relieving Inflammatory Congestion, Camphor-Ice Preparations, Menthol Camphor Liniments, Cream of Camphor Liniments, Carbolic Salve, Celery and Viburnum, Charcoal Tablets, Malarial Tonics, Chlorate-of-Potash Tablets, Cod-Liver Oil and Emulsions for Strengthening Purposes, Cold and Grippe Tablets, Colic and Diarrhea Preparations, Corn-Patches and Preparations for Corns, Coughs and Croup Preparations, Dyspepsia-Tablets, Neutralizers for the Odors of Perspiration, Digestive Tablets, Effervescent Bromo, Effervescent Magnesium Citrate, Effervescent Soda Phosphate, Antiseptic Preparations for Eczema, Fig-Syrup and Cascara, Fig-Syrup and Senna, Foot Tablets for Relief of Feet, Preparations for Constipation, Glycerin Suppositories, Headache Powders and Headache Wafers, Hepatic Salts, Effervescent and Bromo Salts, Herb Tea for Laxative Purposes, Hypophosphites, Compound Syrup, Insect-Powders, Iron Tonic Bitters, Castor Oil, Kidney Preparations, Laxative Chocolate Confection, Shampoo Preparations, Liquid Courtplaster, Larkspur Compound, Liver-Pills, Lithia Tablets, Milk Magnesia, Menthol-Inhalers, Menthol-Pencils, Tonic and Anodyne for the Relief of Menstruation, Pepsin and Pepsin Tablets, Pile Preparations, Poison Fly-Paper and Poison Lotions, Straw Hat Dyes, Rat-Poison, Rat and Roach Pastes, Rheumatic Preparations, Russian Mineral Oil, Sarsaparilla Compound, Mosquito-Lotion, Soda Mint and Pepsin Tablets, Soothing Syrup, Sulfur and Cream-of-Tartar Lozenges, Soda Mint and Charcoal Tablets, Throat Lozenges, Toothache Preparations, Whitepine Expectorants with Tar and Menthol-ates, and Worm Preparations.
Claims use since Sept. 6, 1938.

Ser. No. 415,379. SOL A. COHEN, doing business as Klihen Co., New York, N. Y. Filed Jan. 30, 1939.

KLIHEN

For Liquid Insecticide.
Claims use since Jan. 1, 1939.

Ser. No. 417,162. BLACK HILLS MANUFACTURING CORP., Spearfish, S. Dak. Filed Mar. 17, 1939.

Super-Fix

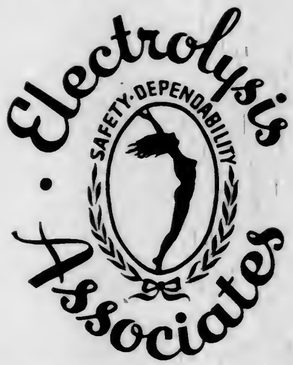
For Motor Block Cement and Radiator Cement.
Claims use since Aug. 20, 1937.

Ser. No. 417,387. PUREX PRODUCTS, INCORPORATED, Baltimore, Md. Filed Mar. 22, 1939.



For Medicinal Mineral Oil, Cod Liver Oil, Rubbing Alcohol, Rubbing Alcohol Compound, Bay Rum, Quinine Hair Tonic, Mouth Wash, Witch Hazel, Castor Oil, Petroleum Jelly, Aspirin, Beef Wine and Iron, Body Rub Liniment, Milk of Magnesia, Peroxide of Hydrogen, Saccharin, Soda Mint, Sodium Phosphate, Boric Acid, Sun Tan Oil, Sodium Perborate, Sodium Bicarbonate, Epsom Salts, Spirits of Ammonia, Healing Ointment, Tincture of Iodine, Preparation for Dressing the Hair, Brilliantine, Glycerine and Rosewater, Glycerine, Talcum Powder, Citrate of Magnesia.
Claims use since Oct. 14, 1936.

Ser. No. 417,402. ELECTROLYSIS ASSOCIATES INC., New York, N. Y. Filed Mar. 23, 1939.



The words "Safety" and "Dependability" are disclaimed.
For After Treatment Lotion, Which Lotion is Used as an Astringent After Electrolysis Treatment—i. e., After the Removal of Superfluous Hair by Means of Electrolysis.
Claims use since Apr. 24, 1933.

Ser. No. 417,624. GUSTAVE PELLEGRINO, doing business as Rumo-Digest Mfg. Co., New York, N. Y. Filed Mar. 29, 1939.



The term "Medicine" is disclaimed apart from the mark.
For Acid Neutralizer Preparation for the Treatment of Gas Caused by Acid Indigestion, Sour Stomach, Excess Acid, Heartburn Due to Indiscretion in Diet, Too Much Food and Drink, Belching Bloating Discomforts, Mild Rheumatic Type Aches and Pains from Cold or Exposure.
Claims use since Mar. 1, 1935.

Ser. No. 417,860. GRACE A. BELL, doing business as Gabel Company (not inc.), Chicago, Ill. Filed Apr. 5, 1939.



The portrait is fanciful.
For Oil Containing Preparation for the Skin, Used to Reduce Saggy Jowls and Crepy Neck.
Claims use since Apr. 1, 1939.

Ser. No. 418,092. CARTER PRODUCTS, INC., New York, N. Y. Filed Apr. 11, 1939.

STET

For Lipstick and Deodorant.
Claims use since Apr. 1, 1939.

Ser. No. 418,112. MICHEL EXPORT CO., INC., New York, N. Y. Filed Apr. 11, 1939.

ALFRAMINE

For Textile Softeners and Finishing Agents.
Claims use since Oct. 1, 1937.

Ser. No. 418,142. THE DOHO CHEMICAL CORPORATION, New York, N. Y. Filed Apr. 12, 1939.

BENZOPYRINE

For Granular Powder Having Antipyretic and Anesthetic Action.
Claims use since Jan. 11, 1938.

Ser. No. 418,151. HORACE HOWSON, doing business as Sasolax Company, Wichita, Kans. Filed Apr. 12, 1939.

SAS-O-LAX

For Tonic and Eliminant.
Claims use since Mar. 29, 1939.

Ser. No. 418,175. JOHN J. TRACEY COMPANY, Chicago, Ill. Filed Apr. 12, 1939.

flaroma

For Eau de Cologne, Bath Oils, Bath Salts, Bath Powder, Toilet Water, Perfumes, Skin Lotions, Facial Creams, Face Powder, Lip Stick, and Rouge.
Claims use since Sept. 13, 1937.

Ser. No. 418,195. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Apr. 13, 1939.

E-D-E

For Insecticides.
Claims use since Sept. 14, 1938.

Ser. No. 418,261. THE NORWICH PHARMACAL COMPANY, Norwich, N. Y. Filed Apr. 14, 1939.

Podaphen

For Laxative.
Claims use since 1911.

Ser. No. 418,268. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Apr. 14, 1939.

HAYPOGEN

For Products Used In Diagnosis and/or Treatment of Various Types of Protein Sensitivity Including Those Caused by Pollens, Foods, Epidermals, Miscellaneous Allergenic Preparations, Bacterial Suspensions, Plants, Drugs, Etc.
Claims use since Apr. 12, 1939.

Ser. No. 418,269. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Apr. 14, 1939.

PRODESAC

For Sedative, Expectorant, and Bronchial Medicament.
Claims use since Apr. 12, 1939.

Ser. No. 418,292. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed Apr. 15, 1939.

PYRAY

For Tetra Sodium Pyrophosphate.
Claims use since Mar. 23, 1939.

Ser. No. 418,349. LEDERLE LABORATORIES, INC., New York, N. Y. Filed Apr. 17, 1939.



For Pharmaceutical Preparations Containing Vitamins A and D.
Claims use since Feb. 18, 1937.

Ser. No. 418,914. THE BIO-TEX DISTRIBUTING CORPORATION, Youngstown, Ohio. Filed May 1, 1939.

BIO-TEX

For Shampoo, Hair Tonic, and Hair Dressing Preparation.
Claims use since Nov. 1, 1938.

Ser. No. 419,161. THE SHERWIN-WILLIAMS CO., Cleveland, Ohio. Filed May 6, 1939.

DEHYDROL

For Oils Used in the Manufacture of Paints, Varnish, Lacquers, Printing Inks, Linoleum, and Synthetic Resins, and Having Their Industrial Uses.
Claims use since Feb. 8, 1939.

Ser. No. 419,182. CHAPPEL BROS. INC., Rockford, Ill. Filed May 8, 1939.

VITA-FIVE

For Concentrate of Vitamins.
Claims use since October, 1938.

Ser. No. 419,348. THE SHEFFIELD COMPANY, New London, Conn. Filed May 12, 1939.

Eltee

For Tooth Paste.
Claims use since Mar. 18, 1936.

Ser. No. 419,371. FILTERAY CORPORATION, New York, N. Y. Filed May 13, 1939.

FILTERAY

For Sunburn Cream.
Claims use since May 12, 1939.

Ser. No. 419,380. JEAN JORDEAU, INC., South Orange, N. J. Filed May 13, 1939.

DE-SPIRANT

For Deodorants.
Claims use since July 22, 1938.

Ser. No. 419,500. DAVIES, ROSE & COMPANY, LIMITED, Boston, Mass. Filed May 17, 1939.

EXOPHEL

For Medicinal Tablets Possessing Laxative and Choleretic Properties, and Medicinal Powders Possessing Bacteriostatic Action, Sold in Combination with the Tablets.
Claims use since Mar. 9, 1939.

Ser. No. 419,505. THE EOPA COMPANY, San Francisco, Calif. Filed May 17, 1939.

B&S

For Cough and Croup Syrup for Relief of Spasmodic Croup, Coughs Due to Colds, and Common Colds.
Claims use since June 15, 1882.

Ser. No. 419,553. GENERAL DYESTUFF CORPORATION, New York, N. Y. Filed May 18, 1939.

AZOSOL

For Dyes and Dyestuffs.
Claims use since May 5, 1939.

Ser. No. 419,570. ARMOUR AND COMPANY, Chicago, Ill. Filed May 19, 1939.

MEO-181

For Chemical Weed Eradicant.
Claims use since June 29, 1938.

Ser. No. 419,737. SOCIETE ANONYME LES PARFUMERIES DE GABILLA, Paris, France. Filed May 23, 1939.

XYZ

For Perfumes, Toilet Water, Eau de Cologne, Face Powder, Talcum Powder, Face Rouge, and Lipsticks.
Claims use since April, 1932.

CLASS 7

Cordage

Ser. No. 413,534. BOWDEN (ENGINEERS) LIMITED, London, England. Filed Dec. 7, 1938.

BOWDENIN

For Flexible Wire Cables (Not Being Ships Cables or Cables for Electrical Purposes).
Claims use since Apr. 20, 1938.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 417,099. ROGERS IMPORTS, INC., New York, N. Y. Filed Mar. 15, 1939.

Sannico

The representation of the goods is disclaimed apart from the mark.
For Pipes and Cigar and Cigarette Holders.
Claims use since Feb. 15, 1939.

CLASS 11

Inks and Inking Materials

Ser. No. 418,845. MITTAG & VOLGER, INCORPORATED, Park Ridge, N. J. Filed Apr. 28, 1939.

THOUSAND AND FIVE PRODUCTS EXCEL 1005 M V

No claim is made to the clause "Thousand and Five Products Excel" apart from the mark.
For Carbon Paper, Inked Ribbons, and Inks Such as Numbering Machine Ink, Stencil Duplicating Ink, Hectograph Pen and Printing Ink.
Claims use since Nov. 17, 1937, on inked ribbon; since Jan. 3, 1938, on other goods.

CLASS 12

Construction Materials

Ser. No. 403,695. KEASBEY & MATTISON COMPANY, Ambler, Pa. Filed Mar. 4, 1938.

"Century"

For Asbestos-Composition Shingles, Slates, Tiles, Sheets, Sheathings, Slabs, and Roofing Materials.
Claims use since Mar. 1, 1904.

Ser. No. 416,466. LIGNOCRETE LIMITED, Georgetown, British Guiana. Filed Feb. 27, 1939.

LIGNOCRETE

For Reinforced Concrete and Products Made Therefrom in the Nature of Beams, Piles, Columns, Slabs, and the Like to be Used as Building Material.
Claims use since 1938.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 400,048. HARRY CADWALLADER, JR., Philadelphia, Pa. Filed Nov. 23, 1937.

75 CAD

The hexagonal outline is disclaimed except in the association shown.
For Bolts and Nuts.
Claims use since May 27, 1937.

Ser. No. 412,750. AMERICAN ZINC COMPANY OF TENNESSEE, Mascot, Tenn. Filed Nov. 15, 1938.

SAFLEX

For Wedge Anchored Wall Standing Eyes for Tackle.
Claims use since Mar. 20, 1937.

Ser. No. 417,683. DIAMOND MANUFACTURING CO., Wyoming, Pa. Filed Mar. 31, 1939.

TILE CANE

For Stamp Perforated Sheet Metal for General Purposes.
Claims use since January, 1939.

Ser. No. 418,647. THE MURDOCK MFG. & SUPPLY CO., Cincinnati, Ohio. Filed Apr. 24, 1939.

E P

For Fluid Control Valves—Viz., Check Valves, and Parts Thereof.
Claims use since Apr. 4, 1939.

Ser. No. 419,252. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed May 10, 1939.

FLEXO

For Workboards for Bars and Soda Fountains.
Claims use since Apr. 28, 1939.

Ser. No. 419,350. STANDARD PRESSED STEEL CO., Jenkintown, Pa. Filed May 12, 1939.

"STANDCO"

For Set Screws.
Claims use since 1910.

Ser. No. 419,358. HENRY WEIS MANUFACTURING COMPANY, INC., Elkhart, Ind. Filed May 12, 1939.

COTTAGER

For Shower Bath Cabinets.
Claims use since April, 1933.

CLASS 15

Oils and Greases

Ser. No. 389,748. THE PURE OIL COMPANY, Chicago, Ill. Filed Mar. 6, 1937.



For Gasoline and Motor Fuel Oil.
Claims use since July 30, 1936.

CLASS 16

Paints and Painters' Materials

Ser. No. 413,366. STANDARD OIL COMPANY OF NEW JERSEY, Wilmington, Del. Filed Dec. 1, 1938.

ESSO

For Liquid Gloss and Floor Dressing, Ready Mixed, Paste, and Metallic Paints, Paint Enamels, and Primers.
Claims use since Dec. 21, 1928, on liquid gloss and floor dressing; since Oct. 28, 1938, on other goods.

Ser. No. 416,467. LIGNOCRETE LIMITED, Georgetown, British Guiana. Filed Feb. 27, 1939.

LIGNOCRETE

For Cementitious Paints.
Claims use since 1938.

CLASS 17

Tobacco Products

Ser. No. 418,486. P. LORILLARD COMPANY, New York, N. Y. Filed Apr. 20, 1939.

Briggs

Trade-mark is a facsimile of the signature of the late Clare A. Briggs, cartoonist.
For Cigarettes and Smoking Tobacco.
Claims use since September, 1930.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 418,799. BASCOM B. WESTMORELAND, doing business as Westmoreland Manufacturing Company, Houston, Tex. Filed Apr. 27, 1939.

EZION

For Vehicle Tops.
Claims use since Apr. 1, 1936.

Ser. No. 419,069. FRANK BERTUCCI, Malverne, Long Island, N. Y. Filed May 4, 1939.



No claim is made to the representation of the automobile apart from the mark.
For Automobiles.
Claims use since Apr. 17, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 417,979. SCIENCE LABORATORIES, INC., Cincinnati, Ohio. Filed Apr. 7, 1939.

Healthaire

For Lighting Fixtures Primarily for Industrial and Commercial Lighting and also Having Therapeutic Properties.
Claims use since February, 1939.

Ser. No. 417,980. SCIENCE LABORATORIES, INC., Cincinnati, Ohio. Filed Apr. 7, 1939.



All words except "Sperti" as well as the representation of the electric bulb are disclaimed apart from the mark.
For Electric Light Ray Apparatus Used for Sterilization of Food Products, Utensils, Instruments, and Related Items.
Claims use since January, 1939.

Ser. No. 418,094. CONTINENTAL CARBON INC., Cleveland, Ohio. Filed Apr. 11, 1939.

CONTINENTAL

For Electrical Resistors, Capacitors, and Reactors, or Combination of Same.
Claims use on resistors in applicant's business and its predecessor since about January, 1928; on capacitors since about August, 1933; and on reactors since about November, 1935.

Ser. No. 419,153. THE OHIO BRASS COMPANY, Mansfield, Ohio. Filed May 6, 1939.

OBONITE

For Inserts for Current Collectors.
Claims use since Feb. 10, 1939.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 405,247. HARRY S. GOODMAN, New York, N. Y. Filed Apr. 14, 1938.

"CROSS-WORD PUZZLES OF THE AIR"

The words "Cross Word Puzzles" are disclaimed apart from the mark.
For Cross Word Games Played with Forms and Definitions or Instructions.
Claims use since Jan. 2, 1938.

Ser. No. 416,473. NATIONAL MERCHANDISE CORPORATION, Los Angeles, Calif. Filed Feb. 27, 1939.



No claim is made to the word "Brand" apart from the mark.
For Fishing Hooks, Lines, Leaders, Rods, and Reels.
Claims use since April, 1938.

Ser. No. 416,814. PETER SCHOU ØSTBYE, Oslo, Norway. Filed Mar. 8, 1939.

SPLITKEIN

Applicant disclaims the representation of the goods apart from the mark.
For Skis.
Claims use since September, 1938.

Ser. No. 417,536. ROBERT R. GREENBLATT, Omaha, Nebr. Filed Mar. 27, 1939.

KWIZZ TIME

For Game of Questions and Answers.
Claims use since Jan. 30, 1939.

Ser. No. 417,722. TUDOR METAL PRODUCTS CORP., New York, N. Y. Filed Mar. 31, 1939.

Wirecraft
THE STREAMLINED HOBBY

No claim is made to the word "Wirecraft" apart from the mark.
For Educational Toy for Shaping Forms of Wire, Played with Various Wires, Tools, Guide Sheets and Diagrams, and Paint.
Claims use since Mar. 10, 1939.

Ser. No. 419,026. DOROTHY LAMONTE, New York, N. Y. Filed May 3, 1939.

Doodlegram

For Character Analysis Games Played with Writing Paper, Cards, Charts, Diagrams, Key to Symbols and a Set of Instructions.
Claims use since Apr. 27, 1939.

Ser. No. 419,758. HORACE W. HALL, Newton Highlands, Mass. Filed May 24, 1939.

Service Ace

For Tennis, Squash, and Badminton Playing Rackets.
Claims use since Sept. 15, 1936.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 415,732. MEUTSCH, VOIGTLANDER & CO. VORMALS GEWERKSCHAFT WALLRAM, Essen-Ruhr, Germany. Filed Feb. 7, 1939.



For Drawing and Pressing Dies, Draw Plates, Mandrils, Draw Nozzles, Pressure Nozzles, Pressing Snouts for Pressures of Bricks and Briquettes, Valves for Metal-Pressure-Casting, Cranked Rough Turning Tools, Straight Rough Turning Tools, Parting Tools, Grooving Tools, Recessing Tools, Finish Turning Tools and Knife Tools, and Other Accessory Tools for Use in the Operation of Metal Turning Lathes, Boring Tools, Milling Cutters, Drills, Stone Planing Tools, Coal and Stone Holing Pikes, Cutter Heads for Coal and Stone Boring Hammers, Coal and Stone Cutting Machines, Coal and Stone Drilling Machines, Insets or Covers for Machine Parts Exposed to Strong Wear such as Cams, Pawls, Slide Ways, Wings of Mud Pumps, Scythes, Sickles, Arms for Cut and Thrust; Machine Tools such as Lathes, Milling Machines, Planers, Shaping Machines, Drilling and Boring Machines, Polishing Machines, Grinding Machines, Wire Drawing Machines, Sand Blasting Machines and Parts Thereof.
Claims use since Dec. 31, 1925.

Ser. No. 417,368. EMSCO DERRICK & EQUIPMENT COMPANY, Los Angeles, Calif. Filed Mar. 22, 1939.

EMSCO

For Crown Blocks, Steam Pumps, Traveling Blocks, Slush Pumps, Swivels, Rotary Chains, Rotary Machines, Well Pulling Machines, Drill Stems, Production Hoists, Drill Collars, Pumping Units, Drill Stem Bushings, Tubing Blocks, Drill Pipe Slips, Floor Blocks, Draw Works, Reverse Gears, Multiple Prime Movers, Reduction Gears, Rotary Drilling Rigs, Derricks, All of the Above Mentioned Machines Being Used in the Drilling and Operation of Oil Wells, and Tractor Equipment Used for Earth Moving Purposes, and Parts Thereof, Namely, Bulldozers, Trail-builders, Scrapers and Rippers, and Power Control Units, Such Units Being Controls Used for Lifting, Lowering and Changing the Angle of Such Earth Moving Machinery.
Claims use since Nov. 30, 1925.

Ser. No. 418,395. ALFRED W. ABRAHAMSEN, doing business as The Hook Scraper Company, Queens Village, N. Y. Filed Apr. 17, 1939.

BIG HAND



For Cutter Blades and Scrapers Such as Wood, Metal, and Ship Scraping Tools.
Claims use since Feb. 23, 1939.

Ser. No. 419,064. THE AJAX MANUFACTURING COMPANY, Euclid, Ohio. Filed May 4, 1939.

RODROP

For Drop Hammers.
Claims use since March, 1939.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 416,862. THE MERCOID CORPORATION, Chicago, Ill. Filed Mar. 9, 1939.

DUCTATHERM

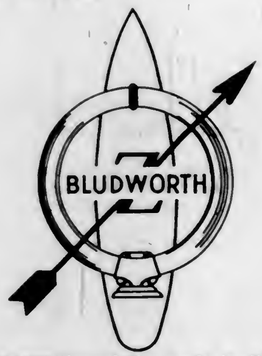
For Temperature Operated Electric Switches.
Claims use since Feb. 15, 1938.

Ser. No. 418,478. FADE-O-SCOPE, INC., Brooklyn, N. Y. Filed Apr. 20, 1939.

FADE-O-SCOPE

For Dissolving Apparatus Adapted to be Used in Association with the Lens of a Motion Picture Camera.
Claims use since March 16, 1939.

Ser. No. 418,512. BLUDWORTH, INC., New York, N. Y. Filed Apr. 21, 1939.



The representation of the goods is disclaimed apart from the mark.
For Radio Direction Finders and Accessories Therefor.
Claims use since Mar. 1, 1939.

Ser. No. 419,214. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed May 8, 1939.

APEX

For Cameras.
Claims use since Mar. 27, 1939.

Ser. No. 419,220. CHAFFIN OPTICAL COMPANY, INC., Boston, Mass. Filed May 9, 1939.

Vita-Ray Glasses

Applicant disclaims anything shown in the drawing except for the word "Vita-Ray" as printed out.
For Optical Frames, Mountings, Lenses, and Parts Thereof.
Claims use since Mar. 27, 1939.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 418,864. BADEN & FOSS, INC., New York, N. Y. Filed Apr. 29, 1939.

True Friendship

For Jewelry Containing Precious and Semi-Precious Stones for Personal Wear and Adornment, Not Including Watches.
Claims use since Mar. 16, 1939.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 418,955. VIOLETTE, INC., Virginia, Minn. Filed May 1, 1939.

DENTA-KIT

The word "Kit" is disclaimed apart from the mark.
For Tooth Brushes.
Claims use since Mar. 15, 1939.

Ser. No. 419,269. LUTHER ALTON NEIL, doing business as Kiln-Aid Laboratories, El Paso, Tex. Filed May 10, 1939.

KLN-AID

For Toothbrushes.
Claims use since Feb. 10, 1939.

CLASS 31

Filters and Refrigerators

Ser. No. 419,745. AUGUST J. BRANDECKER, doing business as Industrial Mfg. & Engineering Co., Chicago, Ill. Filed May 24, 1939.

COLDJET

For Refrigerators and Parts Thereof.
Claims use since Feb. 8, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 419,001. SERTA ASSOCIATES, INC., Chicago, Ill. Filed May 1, 1939.

SERTA-FLEX

For Ribbon Wire Spring Units Used Within Box Springs, Mattresses, Bed Springs, Couches, and Pillows.
Claims use since Mar. 7, 1939.

Ser. No. 419,052. WOOD REPRODUCERS CORPORATION, Detroit, Mich. Filed May 3, 1939.



The word "Burnproof" is disclaimed apart from the mark.

For Laminated Panels for Card Table Constructions and Furniture Constructions.

Claims use since Apr. 4, 1939.

Ser. No. 419,053. WOOD REPRODUCERS CORPORATION, Detroit, Mich. Filed May 3, 1939.



For Laminated Panels for Card Table Constructions and Furniture Constructions.

Claims use since Apr. 4, 1939.

Ser. No. 419,670. KOMFO PRODUCTS CORPORATION, Allentown, Pa. Filed May 22, 1939.

Komfo

For Mattresses, Springs, Studio Couches, Innerspring Mattresses, and Spring Cushions.

Claims use since Oct. 1, 1917.

CLASS 33

Glassware

Ser. No. 403,440. THE BRITISH HEAT RESISTING GLASS COMPANY LTD., Birmingham, England. Filed Feb. 26, 1938.



For Glass Ovenware and Fireproof Cooking Ware.

Claims use since Mar. 13, 1935.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 415,830. BUTANE GAS SYSTEM COMPANY, Dallas, Tex. Filed Feb. 9, 1939.

Yurown

For Independent Gas Distribution Units for Domestic and Commercial Use—Namely, Tanks and Control Valves, Regulators and Gauges for Said Tanks, Sold Together as Such Units.

Claims use since Feb. 1, 1935.

Ser. No. 416,983. THE MANTLE LAMP COMPANY OF AMERICA, Chicago, Ill. Filed Mar. 13, 1939.

Alacite

For Pressed, Blown, and Pressed and Blown Articles of Glass—Namely, Lamp Standards, Lamp Bowls, Lamp Shades, Lamp Reflectors, Lamp Brackets, and Glass Parts for Chandeliers, Lamps, and Lamp Fixtures.

Claims use since Jan. 12, 1939.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 417,883. LION AUTO PARTS AND MANUFACTURING COMPANY, INC., Chicago, Ill. Filed Apr. 5, 1939.



For Piston Rings.

Claims use since Dec. 10, 1937.

Ser. No. 419,689. THE SKINNER CHUCK COMPANY, New Britain, Conn. Filed May 22, 1939.



For Piston Rings.

Claims use since Dec. 12, 1933.

CLASS 36

Musical Instruments and Supplies

Ser. No. 405,232. THE CHAS. E. WELLS MUSIC COMPANY, Denver, Colo. Filed Apr. 13, 1938.

CENTENNIAL

For Slide Trombone, Clarinet, Trumpet, and French Horn.

Claims use since May, 1936.

Ser. No. 417,907. THOMAS A. EDISON, INCORPORATED, West Orange, N. J. Filed Apr. 6, 1939.

Ediphone
EDISON VOICEWRITER

For Phonographic Apparatus for Recording and Reproducing Dictation and the Like.

Claims use since May 6, 1938.

Ser. No. 419,244. C. G. CONN LTD., Elkhart, Ind. Filed May 10, 1939.

CONNIVAR

For Tuning Bars.

Claims use since Mar. 14, 1939.

CLASS 37

Paper and Stationery

Ser. No. 419,249. AMERICAN LEAD PENCIL COMPANY, Hoboken, N. J. Filed May 10, 1939.

VENUS

For Pencils, Mechanical Pencils, Fountain Pens, Penholders, Erasers; Companion Boxes, i. e., Boxes and Pouches Containing Assortments of Pencils, Penholders, Pens, Crayons, Mechanical Pencils, Refill Leads; Crayons (Colored Pencils), Rubber Bands, Compasses, Pencil Leads, Copying Pencils, Pencil and Fountain Pen Clips; Pencil Sharpeners.

Claims use on pencils since Jan. 10, 1903; on mechanical pencils since 1921; on fountain pens since 1939; on penholders since 1924; on erasers since Mar. 1, 1915; on companion boxes, i. e., boxes and pouches containing assortments of pencils, penholders, pens, crayons, mechanical pencils, refill leads since Sept. 27, 1928; on crayons (colored pencils) since 1923; on rubber bands since 1915; on compasses since Mar. 3, 1933; on pencil leads since Aug. 22, 1927; on copying pencils since 1907; on pencil clips since June 9, 1923; on fountain pen clips since 1939; on pencil sharpeners since Jan. 2, 1920.

Ser. No. 419,259. GRAHAM PAPER COMPANY, St. Louis, Mo. Filed May 10, 1939.

COMODO
Bathroom Tissue

The words "Bathroom Tissues" are disclaimed apart from the mark.

For Bathroom Tissues.

Claims use since Apr. 3, 1939.

Ser. No. 419,302. THE E. H. HOTCHKISS COMPANY, Norwalk, Conn. Filed May 11, 1939.

Zephyr

For Stapling Machines, Wire Machine Staples, and Staple Strips.

Claims use since Apr. 27, 1939.

Ser. No. 419,335. ETERNA PEN & PENCIL COMPANY INC., New York, N. Y. Filed May 12, 1939.

IMPERVO

For Fountain Pens and Mechanical Pencils.

Claims use since Apr. 1, 1939.

Ser. No. 419,336. ETERNA PEN & PENCIL COMPANY INC., New York, N. Y. Filed May 12, 1939.

SERVALL

For Fountain Pens and Mechanical Pencils.

Claims use since Apr. 1, 1939.

CLASS 38

Prints and Publications

Ser. No. 393,622. THE STUDIO PUBLICATIONS, INC., New York, N. Y. Filed June 3, 1937.

ART AND INDUSTRY

For Magazines Issued Monthly and Also for a Periodical Publication Relating to Art Subjects and Reproductions of Paintings, Drawings and Engravings.

Claims use since July 1, 1936.

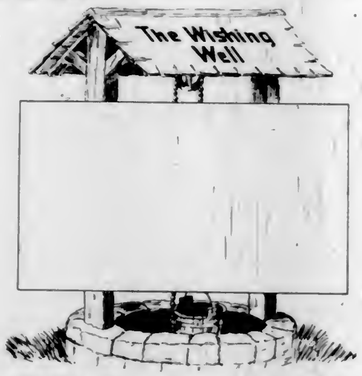
Ser. No. 416,254. VICTOR S. FOX, New York, N. Y. Filed Feb. 20, 1939.

WONDER COMICS

For Periodical Publication.

Claims use since Feb. 16, 1939.

Ser. No. 417,407. WILLIAM J. MILLER, doing business as Miller Newspaper Syndicate, Milwaukee, Wis. Filed Mar. 23, 1939.



For News Feature.
Claims use since Oct. 4, 1937.

Ser. No. 417,870. HANNAH J. CRAMER, Hammond, Ind. Filed Apr. 5, 1939.



For Instruction and Game Books Published from Time to Time at Irregular Intervals.
Claims use since Dec. 2, 1938.

Ser. No. 418,431. CONCRETE INDUSTRIES EXPOSITION, INC., Chicago, Ill. Filed Apr. 19, 1939.

ORIGINAL
Concrete Industries
CONVENTION PROGRAM

For Annual Publication.
Claims use since Jan. 31, 1939.

Ser. No. 418,638. HARVEY & HOWE, INC., Chicago, Ill. Filed Apr. 24, 1939.

ARE YOU
FLOSSIE OR FLUZZIE

For News Column Appearing in a Monthly Publication.
Claims use since Aug. 31, 1938.

Ser. No. 419,014. FINK-ROSELIEVE CO., INC., New York, N. Y. Filed May 3, 1939.

The **FOTO REVIEW**

For Periodical Published Monthly.
Claims use since April, 1939.

Ser. No. 419,120. NEA SERVICE, INC., Cleveland, Ohio. Filed May 5, 1939.

BABE 'N' HORACE

The names "Babe 'n' Horace" are the name of fanciful or fictitious characters appearing from day to day in applicant's comic strip.
For Comic Drawings Published in a Series in Daily and Sunday Newspapers.
Claims use since Mar. 19, 1939.

Ser. No. 419,121. NEA SERVICE, INC., Cleveland, Ohio. Filed May 5, 1939.

HOLD EVERYTHING

For Comic Drawings Published in a Series in Daily and Sunday Newspapers.
Claims use since Sept. 27, 1937.

Ser. No. 419,257. HENRY FIELD SEED COMPANY, doing business as Henry Field Seed & Nursery Company, Shenandoah, Iowa. Filed May 10, 1939.

SEED SENSE

For Publication Issued Tri-Annually or at More Frequent Intervals.
Claims use since Jan. 1, 1913.

Ser. No. 419,268. NEA SERVICE, INC., Cleveland, Ohio. Filed May 10, 1939.

CARNIVAL

For Comic Drawings Published in a Series in Daily and Sunday Newspapers.
Claims use since Nov. 28, 1937.

Ser. No. 419,431. MOTOR CITY PUBLISHING COMPANY, Detroit, Mich. Filed May 15, 1939.

FRIENDS

For Monthly Publication.
Claims use since Apr. 29, 1939.

CLASS 39

Clothing

Ser. No. 397,132. WM. T. KNOTT COMPANY, INC., New York, N. Y. Filed Sept. 4, 1937.

Rosalyn

For Women's and Children's Coats, Scarfs, Suits, Sweaters, Blouses, Hats, and Gloves and Shoes of Leather, Rubber, or Fabric, or Combinations of Such Materials.
Claims use since Oct. 2, 1925.

Ser. No. 398,015. NATIONAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Filed Oct. 1, 1937.

Numeral Crepe

The word "Crepe" is disclaimed except in combination with the term "Numeral". The term "Numeral" is claimed only as a word.
For Genuine Crepe Hosiery.
Claims use since Aug. 27, 1937.

Ser. No. 398,278. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo. Filed Oct. 8, 1937.

Youthfully Yours

For Ladies', Misses', and Children's Dresses of all Kinds and all Materials.
Claims use since Sept. 1, 1937.

Ser. No. 406,093. DAINTY MFG. CO. INC., New York, N. Y. Filed May 7, 1938.

GENUINE
Air Cool
NUBSACKING

The words "Genuine Nubsacking" and "Air Cool" are disclaimed apart from the mark.
For Ladies' Beach Wear and Girls' Beach Wear—Namely, Beach Pajamas, Slacks, Jackets, Shirts, Shorts, and Coats, Ladies' and Girls' Coats, Suits, and Sport Jackets.
Claims use since Jan. 1, 1938.

Ser. No. 408,491. BELLE KNITTING CORP., New York, N. Y. Filed July 14, 1938.

Accordion Puffs

The words "Accordion Puffs" are disclaimed apart from the mark.
For Ladies' and Children's Underwear—Namely, Panties, Bloomers, Stepins, Chemises, and Slips.
Claims use since May 25, 1938.

Ser. No. 408,701. GENERAL SHOE CORPORATION, Nashville, Tenn. Filed July 20, 1938.

Red Seal

For Boots, Shoes, and Slippers of Leather, Fabric, or Combinations Thereof.
Claims use since Jan. 1, 1895.

Ser. No. 408,703. GENERAL SHOE CORPORATION, Nashville, Tenn. Filed July 20, 1938.

Real Boy

For Boots, Shoes, and Slippers of Leather, Fabric, or Combinations Thereof.
Claims use since Jan. 1, 1914.

Ser. No. 409,379. THE ALLEN-A COMPANY, Bennington, Vt. Filed Aug. 9, 1938.

Allen A
LIFE GUARD

Sweaters, Swim Trunks, and Swim Suits, and Men's and Boys' Underwear.
Claims use since Feb. 9, 1937, as to swim trunks and swim suits; Dec. 9, 1937, as to men's and boys' underwear; June, 1938, as to sweaters.

Ser. No. 413,691. TOURAINE COMPANY, INC., New York, N. Y. Filed Dec. 10, 1938.

Teen Guild

For Girls' Sportswear—Namely, Skirts, Jackets, Sweaters, Suits, Coats, Dresses, Shorts, Slacks, Play Suits, Knitted and Woven Shorts and Blouses, Culottes, Beach Coats, and Beach Capes, Bathing Suits, Scarf and Hat Sets; Woven and Knitted Skating Jackets, Skirts and Hats; Jodhpurs, Riding Jackets; Ski Pants, Jackets, and Hats.
Claims use since Oct. 10, 1938.

Ser. No. 414,902. SPEARE GLOVE COMPANY, Gloversville, N. Y. Filed Jan. 16, 1939.

Osa Johnson's
CONGO

The name "Osa Johnson's" is a facsimile signature of Osa Johnson. The word "Congo" is disclaimed apart from the mark.
For Leather Gloves.
Claims use since December, 1938.

Ser. No. 414,962. NATURAL TRED SHOES, INC., Mount Vernon, N. Y. Filed Jan. 18, 1939.

HEALTH
STRYDE

Applicant disclaims the word "Health" except as shown.
For Shoes, Boots, and Slippers Made of Leather, Leather and Fabric, Rubber, or Combinations of the Said Materials.
Claims use since Jan. 25, 1938.

Ser. No. 415,111. EAGLE KNITTING MILLS, INC., Milwaukee, Wis. Filed Jan. 23, 1939.

"FLAGSHIP"

For Caps, Bonnets, and Hoods for Men, Women, and Children.
Claims use since Jan. 16, 1939.

Ser. No. 415,646. GOODMAN, COHEN & COMPANY, New York, N. Y. Filed Feb. 6, 1939.

I the tested shirt

The words "The Tested Shirt" are disclaimed apart from the mark.
For Men's and Boys' Outer Shirts—Namely, Work Shirts, Sport Shirts, and Dress Shirts.
Claims use since Dec. 1, 1938.

Ser. No. 415,769. HARRY K. FOSTER, Dallas, Tex. Filed Feb. 8, 1939.

HARRY'S

The portrait is that of applicant.
For Leather Shoes, Shoes of Rubber and Fabric Combinations, Shoe Insoles, Shoe Outer Soles, Shoe Heels, Shoe Tongues, Cut Out Shoe Linings, and Shoe Welting.
Claims use since Feb. 1, 1934.

Ser. No. 416,061. FENWAY COATS, INC., New York, N. Y. Filed Feb. 15, 1939.

FC Kinkurl

The word "Kinkurl" is disclaimed apart from the mark.
For Women's and Misses' Coats.
Claims use since July 1, 1938.

Ser. No. 416,448. GARAY & CO. INC., New York, N. Y. Filed Feb. 28, 1939.

Glamour

For Ladies' Apparel Belts.
Claims use since Feb. 11, 1939.

Ser. No. 416,895. JOS. S. COHEN & SONS CO., INC., New York, N. Y. Filed Mar. 10, 1939.

"Neatway"

For Ladies' and Misses' Dresses and Frocks.
Claims use since Jan. 11, 1938.

Ser. No. 417,293. MILLER & COMPANY, Denver, Colo. Filed Mar. 20, 1939.

Ride 'Em Cowboy

For Outer Shirts, Hats, Necktles, Neckerchiefs, Mufflers, Leather Boots, Leather Shoes, Pants, and Chaps for the Use of Men, Women, and Children.
Claims use since July 1, 1934.

Ser. No. 417,589. W. J. SCOTT COMPANY, INC., New York, N. Y. Filed Mar. 28, 1939.

PUDGIE

For Children's Dresses and Suits.
Claims use since April, 1938.

Ser. No. 417,759. GUIBERT FRÈRES GLOVES, INC., New York, N. Y. Filed Apr. 1, 1939.

Andrine

For Ladies' Leather Gloves.
Claims use since Jan. 1, 1939.

Ser. No. 418,136. DALY BROS. SHOE CO., INC., Boston, Mass. Filed Apr. 12, 1939.

DALY DOUBLES

The word "Daly" is disclaimed apart from the mark.
For Men's and Boys' Shoes of Leather, Rubber, and Fabric, and/or Combinations Thereof.
Claims use since July 15, 1938.

Ser. No. 418,137. DALY BROS. SHOE CO., INC., Boston, Mass. Filed Apr. 12, 1939.

DALY DOUBLES
From Factory to Wearer
A SURE COMBINATION

The phrases "From Factory to Wearer" and "A Sure Combination" are disclaimed apart from the mark.
For Men's and Boys' Shoes of Leather, Rubber, and Fabric, and/or Combinations Thereof.
Claims use since Mar. 2, 1939.

Ser. No. 418,196. JULIUS KAYSER & Co., New York, N. Y. Filed Apr. 13, 1939.

Gloves
BY
NATASCHA

No claim is made to the words "Gloves by" apart from the mark.
For Fabric Gloves.
Claims use since Apr. 6, 1939.

Ser. No. 418,350. MAYFAIR MANUFACTURING COMPANY, Kansas City, Mo. Filed Apr. 17, 1939.

Breezy Nightie

The word "Nightie" is disclaimed apart from the mark.
For Pajamas and Night Gowns.
Claims use since March, 1935.

Ser. No. 418,413. GEO. E. KEITH COMPANY, Brockton, Mass. Filed Apr. 18, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

Glenwyn

For Shoes Principally of Leather, Shoes Principally of Fabric, and Shoes of a Combination of Leather and Fabric.
Claims use since Feb. 15, 1939.

Ser. No. 418,572. WILLIAM R. FRIEDMAN COMPANY, New York, N. Y. Filed Apr. 22, 1939.

Hi-Li

For Men's, Women's, and Children's Underwear.
Claims use since Feb. 14, 1939.

Ser. No. 418,651. RICHARDS, BOGGS AND KING, INC., Chicago, Ill. Filed Apr. 24, 1939.

Dura-Film

The word "Film" is disclaimed apart from the mark.
For Hosiery.
Claims use since Jan. 15, 1939.

Ser. No. 418,684. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed Apr. 25, 1939.

University Series
STADIUM

For Hosiery.
Claims use since Apr. 3, 1939.

Ser. No. 418,716. JOSEPH LOVE INC., New York, N. Y. Filed Apr. 26, 1939.

hard candy prints

No claim is made to the word "Prints" apart from the mark.
For Children's Dresses, Skirts, Blouses, and Coats.
Claims use since Mar. 27, 1939.

Ser. No. 418,825. THE ENRO SHIRT COMPANY, Louisville, Ky. Filed Apr. 28, 1939.

Willo Rose

For Men's Dress Shirts, Pajamas, and Sport Shirts.
Claims use since Apr. 21, 1939.

Ser. No. 418,842. MAIDEN FORM BRASSIERE COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.

allegro

For Brassières, Bandeaux, Corsets, Corselets, Panties, Pantie-Girdles, Girdles, and Garter-Belts.
Claims use since Apr. 27, 1939.

Ser. No. 418,856. SUSSBERG & FEINBERG, INC., New York, N. Y. Filed Apr. 28, 1939.

MAYTIME

For Women's and Misses' Lingerie—Namely, Slips, Brassières, Panties, Pajamas, and Nightgowns.
Claims use since Apr. 20, 1939.

Ser. No. 418,887. PRIM-ERA HOSIERY MILLS, INC., Chester, Pa. Filed Apr. 29, 1939.

Prim
ERA

For Hosiery.
Claims use since Mar. 24, 1939.

Ser. No. 418,899. STYLEPARK HATS, INC., Camden, N. J. Filed Apr. 29, 1939.

Dulcedo

For Men's, Boys', and Women's Hats.
Claims use since 1933.

Ser. No. 418,924. HANSEN GLOVE CORPORATION, Milwaukee, Wis. Filed May 1, 1939.

Hanosette

For Fabric Gloves.
Claims use since Apr. 21, 1939.

Ser. No. 418,925. HART, SCHAFFNER & MARX, Chicago, Ill. Filed May 1, 1939.

"Controlled Break"

For Men's and Boys' Suits, Coats, Overcoats, Topcoats, Vests, Trousers, Knickerbockers, and Breeches.
Claims use since Apr. 15, 1939.

Ser. No. 418,996. WEINBERG CORPORATION, Chicago, Ill. Filed May 2, 1939.

KHYBER

For Men's Suits, Overcoats, and Topcoats.
Claims use since Apr. 27, 1939.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 414,549. ATREO MANUFACTURING COMPANY, New York, N. Y. Filed Jan. 6, 1939.

ATREO

For Dress Shields.
Claims use since Dec. 19, 1936.

Ser. No. 418,304. SEBASTIAN S. KRESGE, doing business as Kresge Department Store, Newark, Newark, N. J. Filed Apr. 15, 1939.

KREST

For Bias Binding Tape, Braids, Buckles and Buttons not Made of Precious Metal, Combs, Hair Pins, Bobby Pins, Shoe Laces, and Textile Fabrics Stamped for Embroidery.
Claims use since June 20, 1929.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 404,996. F. LONGDON & COMPANY LIMITED, Derby, England. Filed Apr. 7, 1938.

GRAPNEL

For Elastic Piece Goods.
Claims use since Mar. 18, 1937.

Ser. No. 415,870. SAMUEL H. AIBEL, New York, N. Y. Filed Feb. 10, 1939.

CREATORS OF 700 VEILING
QUAL. .....
WIDTH ..... IN.
YDS .....

All notations except the numeral 700 are disclaimed apart from the mark.
For Veilings.
Claims use since August, 1938.

Ser. No. 416,573. MOHAWK CARPET MILLS, INC., Amsterdam, N. Y. Filed Mar. 1, 1939.

DECORATIVE
Arts Fines
CARPETS
for the
STUDIO OF
FROM THE
LOOMS of MOHAWK
MADE IN AMSTERDAM N.Y. U.S.A.
ALL WOOL FACE

The representation of the label and the words "Decorative", "Carpets", "For the Studio of", "From the Looms of Mohawk", "Made in Amsterdam, N. Y., U. S. A.", and "All Wool Face" are disclaimed apart from the mark.
For Rugs and Carpets.
Claims use since Jan. 1, 1938.

Ser. No. 416,576. MOHAWK CARPET MILLS, INC., Amsterdam, N. Y. Filed Mar. 1, 1939.

SIGNATURE

For Rugs and Carpets.
Claims use since Jan. 1, 1938.

Ser. No. 416,577. MOHAWK CARPET MILLS, INC., Amsterdam, N. Y. Filed Mar. 1, 1939.

TRADITION

For Rugs and Carpets.
Claims use since Jan. 1, 1938.

Ser. No. 417,607. EREX NON-ALLERGIC PRODUCTS CO., St. Louis, Mo. Filed Mar. 29, 1939.

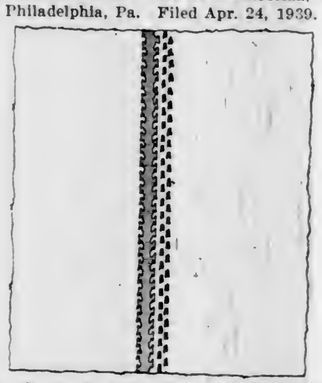
EREX

For Cotton, Linen, Woolen, and Like Materials That Have Been Treated to be Air Proof and Water Proof and Made into Pillow Cases, Mattress Covers, Box Spring Covers, Crib Mattress Covers and Sheetings, and Aprons and Blanket Covers.
Claims use since Jan. 3, 1938.

CLASS 44

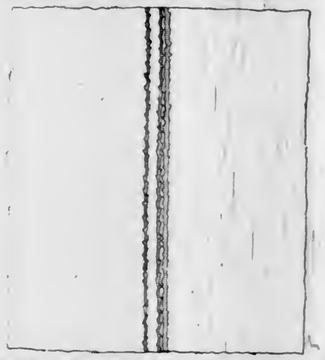
Dental, Medical, and Surgical Appliances

Ser. No. 418,665. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa. Filed Apr. 24, 1939.



Trade-mark consists of three spaced parallel blue stripes extending longitudinally of the goods, one being relatively wide and continuous, the other two being relatively narrow and broken. No claim is made to the representation of the goods per se.
For Impregnated Fabric in Form for the Application of Medicaments.
Claims use since Mar. 22, 1939.

Ser. No. 418,666. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa. Filed Apr. 24, 1939.



Trade-mark consists of three irregular parallel blue stripes extending longitudinally of the goods, two being narrow and spaced apart and one being relatively wide and placed closely adjacent one of the narrow stripes. No claim is made to the representation of the goods per se.
For Impregnated Fabric in Form for the Application of Medicaments.
Claims use since Mar. 22, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 414,744. INTERNATIONAL UNION OF UNITED BREWERY AND SOFT DRINK WORKERS OF AMERICA, Cincinnati, Ohio. Filed Jan. 12, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.



For Soft Drinks Including Cider Having Less Than 7 Percent Alcohol by Volume, Maltless and Nonalcoholic, Cereal Beverages, and Natural Spring Mineral Waters.
Claims use since December, 1912.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 380,713. POWERS MERCANTILE COMPANY, Minneapolis, Minn., now by merger Powers Dry Goods Co., Incorporated, a corporation of Virginia. Filed July 7, 1936.

Powers Security

Applicant disclaims the word "Powers" apart from the mark.
For Pure Olive Oil, Vanilla Extract for Food Flavoring Purposes.
Claims use since 1910.

Ser. No. 409,032. GLORIA PICKLE COMPANY, doing business as Tatz-Stark Pickle Co., Chicago, Ill. Filed July 29, 1938.



The portrait is that of Gloria Tatz, daughter of Harry Tatz, vice president of applicant corporation.
For Pickles, Piccalilli, Chow Chow, Sweet Mixed Pickles, Dill Pickles, and Sweet Pickles.
Claims use since Dec. 10, 1937.

Ser. No. 413,386. ARTHUR W. BASHAM, Indianola, Iowa. Filed Dec. 2, 1938.

DUNKA-DONUT

The word "Donut" is disclaimed as apart from the mark.
For Handled Doughnuts.
Claims use since October, 1938.

Ser. No. 413,637. MCMILLEN FEED MILLS, INC., Fort Wayne, Ind. Filed Dec. 9, 1938.



No claim is made for the words "Egg Mash" apart from the mark.
For Poultry Food.
Claims use since July 1, 1938.

Ser. No. 413,688. SEALTEST, INC., Baltimore, Md., and New York, N. Y. Filed Dec. 10, 1938. Under act of Feb. 20, 1905, as amended June 10, 1938.



For Milk, Buttermilk, and Other Cultured Milks, Cream, Sour Cream, Chocolate Milk, Cheese, Ice Cream, Ice Cream Novelties, Ices and Sherbets, and Eggs.
Claims use since Apr. 1, 1935.

Ser. No. 413,975. M. C. BRITT PRODUCE COMPANY, Winter Garden, Fla. Filed Dec. 19, 1938.

Gallant

For Fresh Citrus Fruits.
Claims use since Oct. 13, 1938.

Ser. No. 415,604. METROPOLITAN ICE CREAM CO., St. Louis, Mo. Filed Feb. 4, 1939.

MELLOW SEAL

For Ice Cream, Ices, and Similar Frozen Confections.
Claims use since Jan. 25, 1939.

Ser. No. 415,671. ARTHUR SERRA AND CO., Chicago, Ill. Filed Feb. 6, 1939.

CUBAN QUEEN

The word "Cuban" is disclaimed apart from the mark.
For Canned Pineapple.
Claims use since June 24, 1938.

Ser. No. 415,763. CENTRAL IGUALDAD, INC., Mayaguez, P. R. Filed Feb. 8, 1939.



No claim is made to the words "Crystals", "Fine Granulated Pure Cane Sugar" apart from the mark.
For Sugar.
Claims use since Jan. 20, 1939.

Ser. No. 415,885. ALBERT EHLERS, INC., Brooklyn, N. Y. Filed Feb. 10, 1939.



No claim is made to the words "Best Coffee" apart from the mark.
For Coffee.
Claims use since Oct. 23, 1936.

Ser. No. 416,289. ISRIN-OLIVER CORPORATION, New York, N. Y. Filed Feb. 21, 1939.



No claim is made to the words "Sparkling", "Fortissimo", and "Coffee" apart from the mark.
For Coffee.
Claims use since Nov. 19, 1938.

Ser. No. 416,871. THE RATH PACKING COMPANY, Waterloo, Iowa. Filed Mar. 9, 1939.

FAMILY LOAF

The word "Loaf" is disclaimed apart from the mark.
For Meat Loaf.
Claims use since Feb. 23, 1939.

Ser. No. 417,581. LOS ANGELES NUT HOUSE, Los Angeles, Calif. Filed Mar. 28, 1939.

BITE-A-NUT

No claim is made to the word "Nut" apart from the mark.
For Peanut Butter.
Claims use since Dec. 15, 1938.

Ser. No. 417,795. BOZEMAN CANNING COMPANY, Mount Vernon, Wash. Filed Apr. 3, 1939.

Rolling Green

The word "Green" is disclaimed apart from the mark.
For Canned Peas.
Claims use since Dec. 6, 1938.

Ser. No. 417,964. GRIGGS, COOPER & Co., St. Paul, Minn. Filed Apr. 7, 1939.

ULIKEM

For Canned Fruits, Canned Vegetables, Canned Pork and Beans, and Canned Fish.
Claims use since 1910.

Ser. No. 418,071. SPECIAL FOODS, INC., Worthington, Ohio. Filed Apr. 17, 1939.

Bita BROTH

No claim is made to the word "Broth" apart from the mark.
For Canned Broth.
Claims use since Apr. 5, 1939.

Ser. No. 418,891. JOHN SEXTON & Co., Chicago, Ill. Filed Apr. 29, 1939.

COOK'S FRIEND

For Cake and Pastry Flour.
Claims use since July 26, 1923.

Ser. No. 419,020. JOHN E. KEENAN, doing business as J. E. Keenan Candy Co., Kearney, Nebr. Filed May 3, 1939.

Golden Spike

For Candy.
Claims use since Apr. 10, 1939.

CLASS 47

Wines

Ser. No. 404,447. NELSON WINE & DISTILLING COMPANY, INC., Springdale, Ark. Filed Mar. 24, 1938.

ARKANSAS

Razorback

No claim is made to the word "Arkansas" apart from the mark.
For Wines.
Claims use since Dec. 20, 1937.

CLASS 48

Malt Beverages and Liquors

Ser. No. 414,743. INTERNATIONAL UNION OF UNITED BREWERY AND SOFT DRINK WORKERS OF AMERICA, Cincinnati, Ohio. Filed Jan. 12, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.



For Beer, Ale, Stout, and Porter.
Claims use since October, 1896.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 412,036. MACDONALD & MUIR, LIMITED, Leith, Scotland. Filed Oct. 25, 1938.



No claim is made to the words "Blended Scotch Whisky", "Produce of Scotland", "Blended by", "Distillers", "Leith Scotland", or to the representation of the label per se apart from the mark.
For Scotch Whisky.
Claims use since November, 1937.

Ser. No. 417,028. C. P. MOORE, Arvada, Colo. Filed Mar. 13, 1939.



The portrait is that of the applicant.
For Straight Bourbon Whisky.
Claims use since Feb. 1, 1939.

Ser. No. 419,032. PHILIP R. MYERS, New York, N. Y. Filed May 3, 1939.

Highland Dew

For Whiskey, Gin, Brandy, Rum, and Alcoholic Cordials.
Claims use since Aug. 16, 1938.

Ser. No. 419,033. PHILIP R. MYERS, New York, N. Y. Filed May 3, 1939.

Highland Ghillie

For Whiskey, Gin, Rum, Brandy, and Alcoholic Cordials.
Claims use since Aug. 16, 1938.

Ser. No. 419,034. PHILIP R. MYERS, New York, N. Y. Filed May 3, 1939.

Highland Supreme

For Whiskey, Gin, Brandy, Rum, and Alcoholic Cordials.
Claims use since Aug. 16, 1938.

Ser. No. 419,035. PHILIP R. MYERS, New York, N. Y. Filed May 3, 1939.

Three Captains

For Whiskey, Gin, Rum, Brandy, and Alcoholic Cordials.
Claims use since Aug. 16, 1938.

Ser. No. 419,767. THE RARITAN CORPORATION, Perth Amboy, N. J. Filed May 24, 1939.

Cara Mia

For Rum.
Claims use since Feb. 1, 1939.

Ser. No. 419,819. SACCONE, SPEED & JENNEY, INC., New York, N. Y. Filed May 25, 1939.

A.H.C.

For Scotch Whisky.
Claims use since May, 1934.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 419,251. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed May 10, 1939.

DE-LUXE

For Billiard Table Covers, Composed of Rubberized Cloth, to Protect the Table from Dust, Etc.
Claims use since Feb. 15, 1939.

Ser. No. 419,258. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio. Filed May 10, 1939.

SPECTRAFILM

For Transparent, Colored, or Uncolored Slightly Extensible Film, Sheet or Strip, Composed Entirely or Largely of a Rubber Derivative for Wrapping, Packaging, and Covering.
Claims use since Mar. 29, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 4, 1939

368,816. DAIRY PRODUCTS—NAMELY, MILK AND CREAM, AND ICE CREAM. ARDEN FARMS, INC., Los Angeles, Calif.
Filed April 21, 1937. Serial No. 391,604. PUBLISHED FEBRUARY 1, 1938. Class 46.

368,817. AXES, HATCHETS, DRAW KNIVES, CHISELS, SNIPS, AND BITS. THE PECK, STOW & WILCOX COMPANY, Southington, Conn.
Filed August 4, 1937. Serial No. 396,004. PUBLISHED APRIL 25, 1939. Class 23.

368,818. FOODS AND INGREDIENTS OF FOODS—NAMELY, SEASONINGS FOR IMPROVING SOUPS, SAUCES, GRAVIES, MEAT, AND VEGETABLE DISHES; SOUPS, CONSOMMES, BOUILLONS, ETC. MAGGI CO., INC., New York, N. Y.
Filed August 7, 1937. Serial No. 396,141. PUBLISHED FEBRUARY 7, 1939. Class 46.

368,819. FOODS AND INGREDIENTS OF FOODS—NAMELY, SEASONINGS FOR IMPROVING SOUPS, SAUCES, GRAVIES, MEAT AND VEGETABLE DISHES; SOUPS, CONSOMMES, ETC. MAGGI CO., INC., New York, N. Y.
Filed August 7, 1937. Serial No. 396,144. PUBLISHED FEBRUARY 14, 1939. Class 46.

368,820. WOOD PULP. GOTTESMAN AND COMPANY, INCORPORATED, New York, N. Y.
Filed November 20, 1937. Serial No. 399,962. PUBLISHED APRIL 25, 1939. Class 1.

368,821. PIANOS AND ORGANS. WINTER & Co., New York, N. Y.
Filed December 20, 1937. Serial No. 401,083. PUBLISHED APRIL 25, 1939. Class 36.

368,822. SILICON CARBIDE, EMERY CLOTH, EMERY PAPER, GLASS PAPER OR CLOTH FOR USE IN WORKING IRON, METAL AND WOOD. NORDDEUTSCHE SCHLEIFMITTEL-INDUSTRIE CHRISTIANSEN & Co., Altona-Lurup, Hamburg, Germany.
Filed January 11, 1938. Serial No. 401,785. PUBLISHED FEBRUARY 21, 1939. Class 4.

368,823. PHOTOGRAPHIC APPARATUS AND SUPPLIES—NAMELY, CAMERAS, PROJECTORS, CARRYING CASES FOR CAMERAS, ETC. PHIL H. LASHER, doing business as Western Movie Supply Co., San Francisco, Calif.
Filed January 11, 1938. Serial No. 401,800. PUBLISHED APRIL 25, 1939. Class 26.

368,824. TREBLE SUPERPHOSPHATE AND PHOSPHATE USED EITHER SEPARATELY AS A COMPLETE FERTILIZER OR IN COMBINATION WITH OTHER MATERIALS IN THE MANUFACTURE OF FERTILIZING PRODUCTS. ANACONDA COPPER MINING COMPANY, Anaconda, Mont., and New York, N. Y.
Filed February 5, 1938. Serial No. 402,705. PUBLISHED APRIL 25, 1939. Class 10.

368,825. ELECTRIC SIGNALLING APPARATUS, COMPRISING BELLS, RELAYS, HORNS, CIRCUIT CONTROLLING DEVICES, FIRE ALARM APPARATUS, AND TELEPHONE SIGNAL CALL CODE SETTING DEVICES AND SIGNAL CODE TRANSMITTING DEVICES. SIGNAL ENGINEERING & MFG. Co., New York, N. Y.
Filed March 1, 1938. Serial No. 403,564. PUBLISHED APRIL 25, 1939. Class 21.

368,826. ISOLATED VEGETABLE PROTEIN SOLD FOR USE IN MAKING ADHESIVES, PLASTICS, PAINTS, INSECTICIDES, ETC. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed April 20, 1938. Serial No. 405,497. PUBLISHED APRIL 25, 1939. Class 1.

368,827. FOODS AND INGREDIENTS OF FOODS—NAMELY, SEASONINGS FOR IMPROVING SOUPS, SAUCES, GRAVIES, MEAT AND VEGETABLE DISHES; SOUPS, CONSOMMES, BOUILLONS, GRAVIES, MEAT EXTRACTS, MEAT JELLIES, SPICES; SAUCES FOR MEATS, FISH, AND FOWL; VEGETABLE SAUCES, FRUIT SAUCES; WHEAT, RICE, BARLEY, OAT, RYE, MAIZE, BEAN, AND POTATO FLOUR; SALT, VINEGAR. MAGGI CO., INC., New York, N. Y.
Filed June 25, 1938. Serial No. 407,909. PUBLISHED FEBRUARY 28, 1939. Class 46.

368,828. GUMMED PAPER AND GUMMED PAPER TAPE. MCLAURIN-JONES CO., Brookfield, Mass.
Filed July 8, 1938. Serial No. 408,322. PUBLISHED APRIL 25, 1939. Class 37.

368,829. DEXTRINIZED CEREAL GRAINS USED AS CEREAL BREAKFAST FOODS OR AS INGREDIENTS OF FOOD PRODUCTS SUCH AS BREAD, MUFFINS, PANCAKES, MUSH, ETC. DEXTRO PRODUCTS, INC., Terre Haute, Ind.
Filed July 27, 1938. Serial No. 408,943. PUBLISHED APRIL 25, 1939. Class 46.

368,830. TEXTILE FABRIC—NAMELY, CORDUROY. S. T. PALAY TEXTILE CORPORATION, New York, N. Y.
Filed September 10, 1938. Serial No. 410,437. PUBLISHED APRIL 25, 1939. Class 42.

368,831. LIFE FLOATS, RING BUOYS, SEA ANCHORS, SEA ANCHOR DRAGS, BOAT FENDERS, MOORING BUOYS, LIFE LINE FLOATS, PICK UP BUOYS, SPRAY HOODS AND APRONS, ALL FOR USE ON OR IN CONNECTION WITH WATER VEHICLES. ATLANTIC-PACIFIC MFG. CORP., Brooklyn, N. Y.
Filed September 12, 1938. Serial No. 410,447. PUBLISHED APRIL 25, 1939. Class 19.

368,832. FRIED PIES. HENRY C. MARSHALL, doing business as Bama Pie Company, Dallas, Tex.
Filed September 16, 1938. Serial No. 410,655. PUBLISHED APRIL 25, 1939. Class 46.

368,833. AIR STERILIZING APPARATUS FOR USE AS ACCESSORY TO BEER TAPPING SYSTEMS. LOUIS ADLER, Hillcrest, Spring Valley, N. Y.
Filed October 17, 1938. Serial No. 411,670. PUBLISHED APRIL 25, 1939. Class 23.

368,834. ELECTRIC CURLING IRONS, ELECTRIC FOOD MIXERS, ELECTRIC CORN POPPERS, ELECTRIC STOVES, ELECTRIC HEATERS, ELECTRIC SAD IRONS, ELECTRIC TOASTERS, ELECTRIC SANDWICH TOASTERS, ELECTRIC PERCOLATORS, ELECTRIC WAFFLE IRONS, AND ELECTRIC FANS. KNAPP-MONARCH COMPANY, St. Louis, Mo.
Filed October 17, 1938. Serial No. 411,697. PUBLISHED APRIL 25, 1939. Class 21.

368,835. HONEY. THEODORE W. HEINZERLING, doing business as Ruth Elizabeth Apiaries, Queens Village, N. Y.
Filed October 18, 1938. Serial No. 411,741. PUBLISHED APRIL 18, 1939. Class 46.

368,836. EGGS AND DRESSED POULTRY. KARSTEN & SONS, Chicago, Ill.
Filed October 24, 1938. Serial No. 411,997. PUBLISHED APRIL 25, 1939. Class 46.

368,837. SOAPS—NAMELY, SOLUBLE WAX SOAP, SULFONATED CASTOR OIL SOAP, AND SOLUBLE PINE OILS FOR USE AS DETERGENTS OR CLEANSING MATERIALS. HERCULES POWDER COMPANY, Wilmington, Del.
Filed October 28, 1938. Serial No. 412,141. PUBLISHED APRIL 25, 1939. Class 4.

368,838. PAINTS IN DRY, PASTE, AND READY-MIXED FORM; PAINT ENAMELS, PREPARED SHELLAC, VARNISH, LACQUERS, STAINS, ETC. INDIA PAINT & LACQUER CO., also doing business as India Lacquer Co., Los Angeles, Calif.
Filed October 28, 1938. Serial No. 412,143. PUBLISHED APRIL 25, 1939. Class 16.

368,839. EQUIPMENT FOR USE WITH ANTHRACITE COAL—NAMELY, BOILERS, MECHANICAL STOKERS, FURNACES, HOT-WATER HEATING FLOW-CONTROL UNITS, ETC. ANTHRACITE INDUSTRIES, INC., New York, N. Y.
Filed November 1, 1938. Serial No. 412,246. PUBLISHED APRIL 25, 1939. Class 34.

368,840. TIMING MACHINES, SPEEDOMETERS, TACHOMETERS, ODOMETERS, MULTOMETERS, ELECTRIC TACHOMETERS, ETC. HAMILTON WATCH COMPANY, Lancaster, Pa.
Filed November 1, 1938. Serial No. 412,255. PUBLISHED APRIL 25, 1939. Class 26.

368,841. GAME PLAYED WITH MOVABLE BALLS SIMILAR TO BILLIARD BALLS. JOHN J. FENNESSY, Scarsdale, N. Y.
Filed November 5, 1938. Serial No. 412,411. PUBLISHED APRIL 25, 1939. Class 22.

368,842. VARNISH STAINS AND PAINT ENAMELS. CON-FERRO PAINT & VARNISH COMPANY, doing business as Evn-Cote Paint Co., St. Louis, Mo.
Filed November 8, 1938. Serial No. 412,498. PUBLISHED APRIL 25, 1939. Class 16.

368,843. STORAGE BATTERIES. THE UNIVERSAL MOTOR OILS COMPANY, Wichita, Kans.
Filed November 9, 1938. Serial No. 412,568. PUBLISHED APRIL 25, 1939. Class 21.

368,844. BASE METAL COFFEE PERCOLATORS. ALUMINUM GOODS MFG. CO., Manitowoc, Wis.
Filed November 14, 1938. Serial No. 412,689. PUBLISHED APRIL 18, 1939. Class 13.

368,845. WHISK BROOMS, RUBBER BRUSHES, AND CLOTHES BRUSHES. JOE WEIL, New York, N. Y.
Filed November 15, 1938. Serial No. 412,784. PUBLISHED APRIL 25, 1939. Class 29.

368,846. MEN'S, WOMEN'S, AND CHILDREN'S COATS. S. WEITZ & COMPANY, INC., Cleveland, Ohio.
Filed November 16, 1938. Serial No. 412,837. PUBLISHED APRIL 18, 1939. Class 39.

368,847. LIQUID HEAT EXCHANGERS OF THE TYPE COMPRISING A PLURALITY OF HEAT TRANSFER ELEMENTS MOVABLY MOUNTED IN JUXTAPOSED RELATION IN A SUPPORTING FRAME. CHERRY-BURRELL CORPORATION, Chicago, Ill.
Filed November 19, 1938. Serial No. 412,943. PUBLISHED APRIL 25, 1939. Class 23.

368,848. VAPOR CURE VULCANIZING STEAM CHAMBER AND TIRE BUILDING MACHINE, A UNITARY ARTICLE. JACOB MILHANDER, Los Angeles, Calif.
Filed November 19, 1938. Serial No. 412,980. PUBLISHED APRIL 25, 1939. Class 23.

368,849. ARTICLE OF BEDDING IN THE NATURE OF A COMBINED SPREAD AND COMFORT OR BLANKET. CLIFFORD W. MAISH, doing business as Comfo-Nille Co., Cincinnati, Ohio.
Filed November 21, 1938. Serial No. 413,022. PUBLISHED APRIL 25, 1939. Class 42.

368,850. ELECTRIC SWITCHES FOR SYNCHRONIZING THE OPERATION OF LIGHTS WITH THE OPERATION OF CAMERA SHUTTERS. LOUIS F. SCHWARZ, doing business as South Jersey Photo Laboratories, Oaklyn, N. J.
Filed November 25, 1938. Serial No. 413,147. PUBLISHED APRIL 25, 1939. Class 21.

368,851. COTTON AND CRETONNE PIECE GOODS. S. M. SCHWAB JR. & CO., New York, N. Y.
Filed December 9, 1938. Serial No. 413,647. PUBLISHED APRIL 25, 1939. Class 42.

368,852. APPARATUS FOR USE IN CLEANING OR OTHERWISE TREATING INTERIOR OR EXTERIOR SURFACES OR BOTH OF CONTAINERS, DRUMS, BARRELS, AND THE LIKE, WITH FLUIDS UNDER PRESSURE OR UNDER HEAT AND PRESSURE, TO PREPARE SUCH CONTAINERS FOR USE OR RE-USE. THE PORTLAND COMPANY, Portland, Maine.
Filed December 10, 1938. Serial No. 413,683. PUBLISHED APRIL 25, 1939. Class 23.

368,853. METAL BORING MACHINE TOOLS. ECLIPSE COUNTERBORE COMPANY, Detroit, Mich.
Filed December 12, 1938. Serial No. 413,704. PUBLISHED APRIL 25, 1939. Class 23.

368,854. PRESERVED FISH. JOÃO DA CRUZ GARGALO, doing business as João C. Gargalo, Setubal, Portugal.
Filed December 15, 1938. Serial No. 413,857. PUBLISHED APRIL 25, 1939. Class 46.

368,855. WIRE CLOTH. PEQUOT WIRE CLOTH CO. INC., South Norwalk, Conn.
Filed December 17, 1938. Serial No. 413,957. PUBLISHED APRIL 25, 1939. Class 13.

368,856. WHOLE-WHEAT CEREAL. JOE GREAVES, Townsend, Mont.
Filed December 20, 1938. Serial No. 414,029. PUBLISHED APRIL 25, 1939. Class 46.

368,857. WELL DRILLING MACHINERY—NAMELY, PORTABLE ROTARY, DRILLING MACHINES AND THEIR PARTS; DUPLEX HORIZONTAL, TRIPLEX VERTICAL PLUNGER MUD PUMPS AND THEIR PARTS; ROTARY DRILLING TABLES AND THEIR PARTS; OIL WELL DRILLING EQUIPMENT—NAMELY, SWIVELS AND THEIR PARTS, FRICTION CLUTCHES AND THEIR PARTS, HOISTING DRUMS AND THEIR PARTS, CORE BARRELS AND THEIR PARTS. JAMES H. OKELL, doing business as Okell Rotary Rig Company, Los Angeles, Calif.
Filed December 21, 1938. Serial No. 414,079. PUBLISHED APRIL 25, 1939. Class 23.

368,858. OUTDOOR AND INDOOR GLIDING FURNITURE (THE PRODUCT BEING MORE COMMONLY KNOWN IN THE INDUSTRY AS "GLIDERS"). THE SHOTT MANUFACTURING COMPANY, Cincinnati, Ohio.
Filed December 21, 1938. Serial No. 414,085. PUBLISHED APRIL 25, 1939. Class 32.

368,859. RADIATOR AIR VALVES, FAUCETS, SHOWER FIXTURES, WASH BASINS OF BASE METAL, SHOE CLEATS, GLOBE VALVES, NAILS, ADJUSTABLE WINDOW SCREENS OF WIRE CLOTH, BAKING PANS OF BASE METAL, AND METAL FENCE POSTS. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill.
Filed December 22, 1938. Serial No. 414,125. PUBLISHED APRIL 25, 1939. Class 13.

368,860. WOOLEN PIECE GOODS. FORSTMANN WOOLEN CO., Passaic, N. J.
Filed December 23, 1938. Serial No. 414,146. PUBLISHED APRIL 25, 1939. Class 42.

368,861. HYDRAULIC HYDRO-MECHANICAL AND HYDRO-ELECTRICAL TRANSMISSIONS AND MECHANICAL MACHINE VALVES FOR FLUID CONTROL. THE ACROTORQUE DRIVE AND POWER COMPANY, New Haven, Conn., assignor to The Acrotorque Company, New Haven, Conn., a corporation of Connecticut.
Filed December 28, 1938. Serial No. 414,253. PUBLISHED APRIL 25, 1939. Class 23.

368,862. SURGICAL SUTURES. JOSEPH EDWARD BELLAS, doing business as The Collins Clinic, Peoria, Ill.
Filed December 30, 1938. Serial No. 414,334. PUBLISHED APRIL 25, 1939. Class 44.

368,863. TURNTABLES. HERBERT H. MACK, doing business as The Mosby-Mack Equipment Company, Topeka, Kans.
Filed January 3, 1939. Serial No. 414,457. PUBLISHED APRIL 25, 1939. Class 23.

368,864. PARASOLS, BEACH UMBRELLAS, AND BEACH SUN SHADES. SUN DODGER COMPANY, Los Angeles, Calif.
Filed January 3, 1939. Serial No. 414,473. PUBLISHED APRIL 11, 1939. Class 41.

368,865. LIQUID COATING FOR PROTECTING ELECTRICAL IGNITION WIRES, SPARK-PLUGS, DISTRIBUTOR CAPS, AND THE LIKE. O. B. HUSKEY, doing business as Ignition-Ite Products Co., Los Angeles, Calif.
Filed January 4, 1939. Serial No. 414,496. PUBLISHED APRIL 25, 1939. Class 21.

368,866. BOOKS OF BLANKFORMS TO BE FILLED IN AND USED FOR SALES PROMOTIONAL PURPOSES. SALES RESEARCH, INCORPORATED, Cleveland, Ohio.
Filed January 5, 1939. Serial No. 414,535. PUBLISHED APRIL 25, 1939. Class 37.

368,867. CHLORINE AND/OR AMMONIA METERING, FEEDING, AND ABSORBING APPARATUS USED WHERE WATER OR SEWAGE IS TO BE TREATED WITH CHLORINE OR AMMONIA GAS. EVERSON MANUFACTURING COMPANY, Chicago, Ill.
Filed January 9, 1939. Serial No. 414,627. PUBLISHED APRIL 25, 1939. Class 23.

368,868. COTTONSEED SALAD OIL, COOKING OIL, AND SHORTENING. COTTON PRODUCTS COMPANY, INC., doing business as Opelousas Oil Refinery and also as Opelousas Oil Mill, Opelousas, La.
Filed January 16, 1939. Serial No. 414,862. PUBLISHED APRIL 25, 1939. Class 46.

368,869. FRESH GRAPES. A. GIOLITTI, Sanger, Calif.
Filed January 16, 1939. Serial No. 414,874. PUBLISHED APRIL 25, 1939. Class 46.

368,870. FROZEN CONFECTIONS AND MALT POWDER FOR USE IN FLAVORING FROZEN CONFECTIONS, ICE CREAM, ICE MILK, FROZEN CUSTARD AND THE LIKE, CANDY, AND OTHER FOOD PRODUCTS. JOE LOWE CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,957. PUBLISHED APRIL 25, 1939. Class 46.

368,871. FROZEN CONFECTIONS AND MALT POWDER FOR USE IN FLAVORING FROZEN CONFECTIONS, ICE CREAM, ICE MILK, FROZEN CUSTARD AND THE LIKE, CANDY, AND OTHER FOOD PRODUCTS. JOE LOWE CORPORATION, New York, N. Y.
Filed January 18, 1939. Serial No. 414,958. PUBLISHED APRIL 25, 1939. Class 46.

368,872. WHEAT FLOUR AND COFFEE. BIRDSEY FLOUR MILLS, Macon, Ga.
Filed January 19, 1939. Serial No. 414,981. PUBLISHED APRIL 25, 1939. Class 46.

368,873. MAPLE SUGAR CANDIES. MAPLE GROVE, INC., St. Johnsbury, Vt.
Filed January 19, 1939. Serial No. 415,006. PUBLISHED APRIL 25, 1939. Class 46.

368,874. RUM. DESTILERIA SERRALLES, INC., Ponce, P. R.
Filed January 27, 1939. Serial No. 415,286. PUBLISHED MARCH 28, 1939. Class 49.

368,875. GLASS CLEANER. SALEM CHEMICAL & SUPPLY CO., Salem, Mass.
Filed January 28, 1939. Serial No. 415,353. PUBLISHED APRIL 25, 1939. Class 4.

368,876. WHISKEY. BARDSTOWN DISTILLERY, INC., Bardstown, Ky.
Filed January 31, 1939. Serial No. 415,439. PUBLISHED APRIL 25, 1939. Class 49.

368,877. MACHINERY—NAMELY, AUTOMATIC PUNCHING AND RIVETING MACHINES, SHEET METAL FORMING MACHINES, SHEET METAL SHRINKING MACHINES, SHEET METAL STRETCHING PRESSES, AND PROPELLER PROFILING MACHINES, AND PARTS FOR SUCH MACHINES, AND AIRCRAFT ENGINES AND PARTS THEREOF: ENGINEERING AND RESEARCH CORPORATION, Riverdale, Md.
Filed January 31, 1939. Serial No. 415,445. PUBLISHED APRIL 25, 1939. Class 23.

368,878. DIAMOND DRESSING TOOLS COMPRISING A METAL HOLDER AND A CUTTING OR ABRASIVE ELEMENT SUCH AS A COMMERCIAL DIAMOND. J. K. SMIT & SONS, INC., New York, N. Y.
Filed February 1, 1939. Serial No. 415,487. PUBLISHED APRIL 25, 1939. Class 23.

368,879. SHOE CREAMS, SHOE DRESSING, AND SHOE POLISHES. LE CLIFF DISTRIBUTING CO., Cedar Lake, Ind.
Filed February 2, 1939. Serial No. 415,517. PUBLISHED APRIL 25, 1939. Class 4.

368,880. SANITARY BELTS. BELTX CORPORATION, St. Louis, Mo.
Filed February 2, 1939. Serial No. 415,533. PUBLISHED APRIL 25, 1939. Class 44.

368,881. NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE, SOLD AS A SOFT DRINK AND SIRUP AND EXTRACT FOR MAKING THE SAME. FOOTE & JENKS, INC., Jackson, Mich.
Filed February 3, 1939. Serial No. 415,544. PUBLISHED APRIL 25, 1939. Class 45.

368,882. NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE, SOLD AS A SOFT DRINK AND SIRUP AND EXTRACT FOR MAKING THE SAME. FOOTE & JENKS, INC., Jackson, Mich.
Filed February 3, 1939. Serial No. 415,547. PUBLISHED APRIL 25, 1939. Class 45.

368,883. NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE, SOLD AS A SOFT DRINK AND SIRUP AND EXTRACT FOR MAKING THE SAME. FOOTE & JENKS, INC., Jackson, Mich.
Filed February 3, 1939. Serial No. 415,548. PUBLISHED APRIL 25, 1939. Class 45.

368,884. CHEWING GUM. GUM INCORPORATED, Philadelphia, Pa.
Filed February 3, 1939. Serial No. 415,551. PUBLISHED APRIL 25, 1939. Class 46.

368,885. CLEANER FOR DENTAL PLATES. DENT-A-FIRM LABORATORIES, INC., Chicago, Ill.
Filed February 4, 1939. Serial No. 415,583. PUBLISHED APRIL 25, 1939. Class 4.

368,886. FROZEN CONFECTIONS AND SYRUPS OR CONCENTRATES FOR MAKING THE SAME. JOE LOWE CORPORATION, New York, N. Y.
Filed February 7, 1939. Serial No. 415,722. PUBLISHED APRIL 25, 1939. Class 46.

368,887. CHOCOLATE AND BUTTER-SCOTCH COATINGS, FROZEN CONFECTIONS AND FLAVORED SYRUPS OR CONCENTRATES FOR MAKING THE SAME. JOE LOWE CORPORATION, New York, N. Y.
Filed February 7, 1939. Serial No. 415,724. PUBLISHED APRIL 25, 1939. Class 46.

368,888. PROTECTIVE RUBBER COVERS FOR SANITARY NAPKINS. HATTIE S. MAYER, New York, N. Y.
Filed February 8, 1939. Serial No. 415,788. PUBLISHED APRIL 25, 1939. Class 44.

368,889. TEA. ALBERT EHLERS, INC., Brooklyn, N. Y.
Filed February 10, 1939. Serial No. 415,883. PUBLISHED APRIL 25, 1939. Class 46.

368,890. PENS. HARRY J. DEERWESTER, Sr., doing business as No-Mek Pen Co., Chicago, Ill.
Filed February 15, 1939. Serial No. 416,048. PUBLISHED APRIL 25, 1939. Class 37.

368,891. TYPEWRITER PAPER. EATON PAPER CORPORATION, Pittsfield, Mass.
Filed February 15, 1939. Serial No. 416,051. PUBLISHED APRIL 25, 1939. Class 37.

368,892. TYPEWRITER PAPER. EATON PAPER CORPORATION, Pittsfield, Mass.
Filed February 15, 1939. Serial No. 416,052. PUBLISHED APRIL 25, 1939. Class 37.

368,893. TYPEWRITER PAPER. EATON PAPER CORPORATION, Pittsfield, Mass.
Filed February 15, 1939. Serial No. 416,053. PUBLISHED APRIL 25, 1939. Class 37.

368,894. CANNED FISH. KELLEY-CLARKE CO., Seattle, Wash.
Filed February 15, 1939. Serial No. 416,068. PUBLISHED APRIL 25, 1939. Class 46.

368,895. COFFEE. ALBERT EHLERS, INC., Brooklyn, N. Y.
Filed February 16, 1939. Serial No. 416,094. PUBLISHED APRIL 25, 1939. Class 46.

368,896. RECORD SHEETS FOR RECORDING DATA IN CONNECTION WITH DELIVERIES OF FUEL SUCH AS COAL, OIL, ETC. BYRON H. O'BRIEN, doing business as Load Log Company, West Springfield, Mass.
Filed February 16, 1939. Serial No. 416,110. PUBLISHED APRIL 25, 1939. Class 37.

368,897. SUN GLASSES. COLUMBIA PROTEKTOSITE CO., INC., Carlstadt, N. J.
Filed February 17, 1939. Serial No. 416,135. PUBLISHED APRIL 25, 1939. Class 26.

368,898. CANNED FRUITS. BEAR CREEK ORCHARDS, also doing business as Rosenberg Bros., Medford, Oreg.
Filed February 18, 1939. Serial No. 416,176. PUBLISHED APRIL 25, 1939. Class 46.

368,899. TRANSPARENT SHEET MATERIAL CONSISTING OF A RUBBER COMPOSITION FOR MAKING PACKAGES. IVERS-LEE COMPANY, Newark, N. J.
Filed February 18, 1939. Serial No. 416,190. PUBLISHED APRIL 25, 1939. Class 50.

368,900. LAPEL BUTTONS, BADGES, MEDALLIONS, BUTTONS WITH PINS, AND METAL IDENTIFICATION TAGS. IRWIN OLENIK, New York, N. Y.
Filed February 18, 1939. Serial No. 416,203. PUBLISHED APRIL 25, 1939. Class 50.

368,901. FRESH ORANGES AND FRESH GRAPEFRUIT. THE PALMER CORPORATION, Chicago, Ill.
Filed February 18, 1939. Serial No. 416,204. PUBLISHED APRIL 25, 1939. Class 46.

368,902. BRUSHES—NAMELY, HAIR, HAT, CLOTH, NAIL, TOOTH, HAND, AND BABY BRUSHES. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 18, 1939. Serial No. 416,231. PUBLISHED APRIL 25, 1939. Class 29.

368,903. CLOCKS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 18, 1939. Serial No. 416,232. PUBLISHED APRIL 25, 1939. Class 27.

368,904. SALTED NUTS, CANDY, AND CHOCOLATE COATED NUTS. AWFUL FRESH MACFARLANE, Berkeley, Calif.
Filed February 20, 1939. Serial No. 416,241. PUBLISHED APRIL 25, 1939. Class 46.

368,905. DOMESTIC GAS RANGES, HEAVY DUTY OR RESTAURANT GAS RANGES, GAS HEATED BROILERS, BAKE OVENS, ETC. AMERICAN STOVE COMPANY, St. Louis, Mo.
Filed February 21, 1939. Serial No. 416,279. PUBLISHED APRIL 25, 1939. Class 34.

368,906. CERAMIC DINNERWARE. THE EDWIN M. KNOWLES CHINA COMPANY, East Liverpool, Ohio, and Newell, W. Va.
Filed February 21, 1939. Serial No. 416,293. PUBLISHED APRIL 25, 1939. Class 30.

368,907. YELLOW POPCORN IN ITS NATURAL STATE. RONALD MEYER, doing business as Ronald Meyer Popcorn Company, Carnarvon, Iowa.
Filed February 21, 1939. Serial No. 416,294. PUBLISHED APRIL 25, 1939. Class 46.

368,908. MANIFOLD PAPER. DETROIT SULPHITE PULP & PAPER CO., Detroit, Mich.
Filed February 23, 1939. Serial No. 416,318. PUBLISHED APRIL 25, 1939. Class 37.

368,909. OPERA GLASSES. SELSI COMPANY, INC., New York, N. Y.
Filed February 23, 1939. Serial No. 416,342. PUBLISHED APRIL 25, 1939. Class 26.

368,910. WOOLEN GOODS IN THE PIECE AND IN CUT LENGTHS. S. STEIN & CO., New York, N. Y.
Filed February 23, 1939. Serial No. 416,346. PUBLISHED APRIL 25, 1939. Class 42.

368,911. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SIRUPS, EXTRACTS, AND FLAVORS USED FOR MAKING THE SAME. BARQ'S ROOT BEER COMPANY, Biloxi, Miss.
Filed February 24, 1939. Serial No. 416,363. PUBLISHED APRIL 25, 1939. Class 45.

368,912. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SIRUPS, EXTRACTS, AND FLAVORS USED FOR MAKING THE SAME. BARQ'S ROOT BEER COMPANY, Biloxi, Miss.
Filed February 24, 1939. Serial No. 416,364. PUBLISHED APRIL 25, 1939. Class 45.

368,913. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed February 24, 1939. Serial No. 416,368. PUBLISHED APRIL 25, 1939. Class 42.

368,914. PIECE GOODS MADE WHOLLY OR PARTIALLY OF CELLULOSE DERIVATIVES. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed February 24, 1939. Serial No. 416,369. PUBLISHED APRIL 25, 1939. Class 42.

368,915. BICYCLE SPEEDOMETERS. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed February 24, 1939. Serial No. 416,373. PUBLISHED APRIL 25, 1939. Class 26.

368,916. OPHTHALMIC BLANKS AND LENSES TINTED TO REDUCE GLARE. CONTINENTAL OPTICAL COMPANY, INC., Indianapolis, Ind.
Filed February 25, 1939. Serial No. 416,403. PUBLISHED APRIL 25, 1939. Class 26.

368,917. WOVEN FABRICS COMPOSED MAINLY OR WHOLLY OF PAPER THREADS. HODGES CARPET COMPANY, Indian Orchard, Mass.
Filed February 25, 1939. Serial No. 416,419. PUBLISHED APRIL 25, 1939. Class 42.

368,918. PIPES, CIGAR HOLDERS, AND CIGARETTE HOLDERS. GENE KAPP, New York, N. Y.
Filed February 25, 1939. Serial No. 416,425. PUBLISHED APRIL 25, 1939. Class 8.

368,919. PIPES, CIGAR HOLDERS, AND CIGARETTE HOLDERS. GENE KAPP, New York, N. Y.
Filed February 25, 1939. Serial No. 416,426. PUBLISHED APRIL 25, 1939. Class 8.

368,920. PIECE GOODS CONSISTING IN WHOLE OR IN PART OF PURE OR WEIGHTED SILK, RAYON, SPUN RAYON, COTTON, LINEN, AND WOOL. MARY MUFFET, INC., St. Louis, Mo.
Filed February 25, 1939. Serial No. 416,434. PUBLISHED APRIL 25, 1939. Class 42.

368,921. POTATOES. COLORADO POTATO GROWERS EXCHANGE, Denver, Colo.
Filed February 27, 1939. Serial No. 416,455. PUBLISHED APRIL 25, 1939. Class 46.

368,922. INKSTANDS AND WRITING DESK SETS. CAREY GARFIELD GREGORY, doing business as Gregory Fount-O-Ink Company, Los Angeles, Calif.
Filed February 27, 1939. Serial No. 416,462. PUBLISHED APRIL 25, 1939. Class 37.

368,923. PRESERVED CUCUMBERS. JANE W. HAMILTON, Chicago, Ill.
Filed February 27, 1939. Serial No. 416,463. PUBLISHED APRIL 25, 1939. Class 46.

368,924. CLEANSER IN POWDERED FORM HAVING INCIDENTAL WATER-SOFTENING PROPERTIES, FOR CLEANING RECEPTACLES AND CONTAINERS. THE DIVERSEY CORPORATION, Chicago, Ill.
Filed March 1, 1939. Serial No. 416,550. PUBLISHED APRIL 25, 1939. Class 4.

368,925. CLEANSER IN POWDERED FORM HAVING INCIDENTAL WATER-SOFTENING PROPERTIES, FOR CLEANING RECEPTACLES AND CONTAINERS. THE DIVERSEY CORPORATION, Chicago, Ill.
Filed March 1, 1939. Serial No. 416,551. PUBLISHED APRIL 25, 1939. Class 4.

368,926. WINDOW CURTAINS. BARTMANN & BIXER INC., New York, N. Y.
Filed March 2, 1939. Serial No. 416,597. PUBLISHED APRIL 25, 1939. Class 42.

368,927. NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. OTIS VERNON CLARK, Bowling Green, Ky.
Filed March 2, 1939. Serial No. 416,601. PUBLISHED APRIL 25, 1939. Class 45.

368,928. MINERAL WATER AND FOR NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. ISADORE BENJAMIN KRAUT, doing business as Mt. Clemens Products Co., New York, N. Y.
Filed March 2, 1939. Serial No. 416,610. PUBLISHED APRIL 25, 1939. Class 45.

368,929. NONALCOHOLIC, NON-CEREAL, MALTLESS BEVERAGE, SOLD AS A SOFT DRINK AND SYRUP AND EXTRACT FOR MAKING THE SAME. MATTHIAS ROTHSTEIN, doing business as Drink-Mor Beverage Company, Wilkes-Barre, Pa.
Filed March 2, 1939. Serial No. 416,617. PUBLISHED APRIL 25, 1939. Class 45.

368,930. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND FOR THE CONCENTRATES THEREOF. GRANDPA BRANDS COMPANY, Cincinnati, Ohio.
Filed March 1, 1939. Serial No. 416,632. PUBLISHED APRIL 25, 1939. Class 45.

368,931. WOOLEN PIECE GOODS. FORSTMANN WOOLEN CO., Passaic, N. J.
Filed March 4, 1939. Serial No. 416,687. PUBLISHED APRIL 25, 1939. Class 42.

368,932. VENETIAN BLINDS. PERCY POLITZ, doing business as Pennsylvania Manufacturing Company, Washington, D. C.
Filed March 4, 1939. Serial No. 416,700. PUBLISHED APRIL 25, 1939. Class 32.

368,933. TAILS FOR ARTIFICIAL FLIES. JAY JOHNSON, Evanston, Ill.
Filed March 1, 1939. Serial No. 416,784. PUBLISHED APRIL 25, 1939. Class 22.

368,934. MOUNTED SHADES, WINDOW SHADES, AND SHADE ROLLERS. THE COLUMBIA MILLS, INC., New York, N. Y.
Filed March 13, 1939. Serial No. 416,999. PUBLISHED APRIL 25, 1939. Class 32.

368,935. DRY ICE REFRIGERATORS. CHARLES W. BALL, Seattle, Wash.
Filed March 17, 1939. Serial No. 417,160. PUBLISHED APRIL 25, 1939. Class 31.

368,936. FILTER MATERIAL FOR THE FILTRATION AND CLARIFICATION OF BEER OR OTHER LIQUIDS. FILTERMASS MANUFACTURING CO., INC., Long Island City, N. Y.
Filed March 17, 1939. Serial No. 417,167. PUBLISHED APRIL 25, 1939. Class 31.

368,937. FISHING LURES. WILLIS E. HASELWOOD, doing business as The Edwood Company, Elkhart, Ind.
Filed March 20, 1939. Serial No. 417,280. PUBLISHED APRIL 25, 1939. Class 22.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

368,938. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed July 16, 1937. Serial No. 395,310.

CROYDON SIDES

For Leather.
Claims use since June 10, 1936.

368,939. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) AMALGAMATED LEATHER COMPANIES INC., Wilmington, Del. Filed Mar. 22, 1938. Serial No. 404,344.

SNOWITE

For Leather.
Claims use since Mar. 11, 1938.

368,940. (CLASS 31. FILTERS AND REFRIGERATORS.) WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Apr. 6, 1938. Serial No. 404,971.

MEAT-KEEPER

For Storage Bins in Refrigerators.
Claims use since Nov. 1, 1937.

368,941. (CLASS 39. CLOTHING.) RICHARD LAPEIRA & CO., INC., New York, N. Y. Filed Apr. 19, 1938. Serial No. 405,444.

Sheer-Maid

For Hosiery.
Claims use since Dec. 10, 1937.

368,942. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HERSHBERG'S, Rochester, N. Y., assignor to Hershberg's, Inc., Rochester, N. Y., a corporation of New York. Filed May 13, 1938. Serial No. 406,290.

GOLD-MEDAL SPECIAL

For Men's Pocket Watches, Men's Wrist Watches and Ladies' Wrist Watches.
Claims use since Apr. 4, 1938.

368,943. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) B. H. MCEACHEN, doing business as Nola Products Company, Los Angeles, Calif. Filed May 23, 1938. Serial No. 406,649.

NOLA

For Pickles, Ground Sweet Pickle Relish, Chili Peppers, Mexican Hot Relish, Imitation Maple Syrup, Pickled Onions, Honey, Vinegar, Mustard, Flavoring Extracts for Foods, Peanut Butter, Chili Sauce.
Claims use since May 16, 1938.

368,944. (CLASS 42. KNITTED NETTED, AND TEXTILE FABRICS.) MERRIMACK MANUFACTURING COMPANY, Lowell, Mass. Filed June 4, 1938. Serial No. 407,104.

SHEERCORD

For Pile Fabrics of Cotton.
Claims use since Apr. 8, 1938.

368,945. (CLASS 27. HOROLOGICAL INSTRUMENTS.) HERSHBERG'S, Rochester, N. Y., assignor to Hershberg's, Inc., Rochester, N. Y., a corporation of New York. Filed June 22, 1938. Serial No. 407,753.

GOLD-MEDAL

For Men's Pocket Watches, Men's Wrist Watches and Ladies' Wrist Watches.
Claims use since Apr. 4, 1938.

368,946. (CLASS 44. DENTAL, MEDICAL AND SURGICAL APPLIANCES.) THE KILLIAN MANUFACTURING COMPANY, Akron, Ohio. Filed June 23, 1938. Serial No. 407,817.

KILLIAN

For Prophylactic Rubber Articles for the Prevention of Disease.
Claims use since June 2, 1932.

368,947. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) BLAIR DISTILLING COMPANY, St. Francis, Ky. Filed July 9, 1938. Serial No. 408,338.

Old Blair

For Whiskey.
Claims use since Mar. 10, 1938.

368,948. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) C. G. CONN LTD., Elkhart, Ind. Filed July 18, 1938. Serial No. 408,678.

Roma

For Accordions.
Claims use since May 6, 1938.

368,949. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) H. SPENCER SCHWARZ, doing business as Wir-Drir, Chicago, Ill. Filed Sept. 19, 1938. Serial No. 410,752.

Wir-Drir

For Hosiery Drying Forms.
Claims use since May 10, 1938.

368,950. (CLASS 37. PAPER AND STATIONERY.) MAIL-WELL ENVELOPE COMPANY, Portland, Oreg. Filed Oct. 1, 1938. Ser. No. 411,174.

MAIL-WELL

For Envelopes.
Claims use since Jan. 2, 1934.

368,951. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE NORWALK TIRE & RUBBER COMPANY, Norwalk, Conn. Filed Nov. 9, 1938. Serial No. 412,558.

CUSTOM CRAFT
HEAVY DUTY TUBE

The words "Heavy Duty Tube" are disclaimed apart from the mark.
For Innertubes Composed Principally of Rubber.
Claims use since May 15, 1938.

368,952. (CLASS 14. METALS AND METAL CASTINGS AND FORGINGS.) VANADIUM-ALLOYS STEEL COMPANY, Latrobe, Pa. Filed Nov. 12, 1938. Serial No. 412,682.

AIR HARD

For Steel for Blanking Dies, Forming Dies, Trimming Dies, Drawing Dies, Gauges, Punches, Punch Plates, and Gear Blades.
Claims use since Mar. 30, 1938.

368,953. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) LAWNER MARTIN CORP., New York, N. Y. Filed Dec. 2, 1938. Ser. No. 413,412.

ROLL CHECKERS

For Games and Toys—Namely, Checkerboard Game for Play With Marbles.
Claims use since January, 1938.

368,954. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Dec. 3, 1938. Serial No. 413,441.

TANK SAVER

For Hot Water Coils for Boilers.
Claims use since Mar. 1, 1933.

368,955. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) MOHAWK CARPET MILLS, INC., Amsterdam, N. Y. Filed Mar. 1, 1939. Ser. No. 416,575.

SHUTTLE-POINT

For Rugs and Carpets.
Claims use since January, 1938.

368,956. (CLASS 47. WINES.) CALLIS AND HAMMOND, INC., Baltimore, Md. Filed Apr. 13, 1939. Ser. No. 418,185.

RIO DOURO

For Wine.
Claims use since Oct. 4, 1937.

368,957. (CLASS 9. EXPLOSIVES, FIREARMS, EQUIPMENTS, AND PROJECTILES.) MILLER MANUFACTURING COMPANY, El Paso, Tex. Filed Apr. 24, 1939. Ser. No. 418,646.

THE MILLER WATER PROOF MINING CAP PROTECTOR

For Blasting Cap Protectors.
Claims use since Jan. 1, 1900.

368,958. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) LEOPOLD ASCHER CO., INC., New York, N. Y. Filed Apr. 26, 1939. Ser. No. 418,700.

Strong Set

For Brushes Used for Shaving.
Claims use since Apr. 1, 1924.

368,959. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) HENRY KAYSER & FILS, INC., New York, N. Y. Filed Apr. 28, 1939. Ser. No. 418,836.

Kayser

For Hair Brushes, Nail Brushes, Nail Scrubs, Makeup Brushes, Eyebrow Brushes, Eyelash Brushes, and Nail Buffers.
Claims use since January, 1937.

368,960. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) THE FOLMER GRAFLEX CORPORATION, Rochester, N. Y. Filed May 2, 1939. Ser. No. 418,972.

Prize-Winning Cameras

For Cameras.
Claims use since Apr. 20, 1938.

TRADE-MARK REGISTRATIONS RENEWED

122,339. **OZOL.** LUBRICATING-OIL AND RUST-PREVENTIVE. Registered July 23, 1918. PETROLEUM PRODUCTS Co., San Francisco, Calif. Renewed July 23, 1938, to Monarch Oil Company, Oakland, Calif., a firm, successor.

125,382. **ARBEKA.** CERTAIN NAMED FANCY GOODS, FURNISHINGS, AND NOTIONS. Registered May 20, 1919. ARBEKA WEBBING COMPANY, Boston, Mass. Renewed May 20, 1939, to Arbeka Webbing Company, Pawtucket, R. I., a corporation of Rhode Island, assignee.

125,567. **EQUITY.** CERTAIN NAMED FOODS. Registered May 27, 1919. FARGO FOOD PRODUCTS Co. Renewed May 27, 1939, to Fargo Food & Equipment Co., Fargo, N. Dak., a corporation of North Dakota, by change of name.

125,608. **AUTOVENT.** ELECTRICALLY-OPERATED FANS, MOTORS, AND BLOWERS FOR VENTILATING PURPOSES. Registered June 3, 1919. BATTERMAN TRUITT COMPANY. Renewed June 3, 1939, to Autovent Fan & Blower Co., Chicago, Ill., a corporation of Illinois, by change of name.

126,164. **HABIRLITE.** ELECTRICALLY-INSULATED LOCOMOTIVE-HEADLIGHT WIRE. Registered July 29, 1919. HABIRSHAW ELECTRIC CABLE COMPANY, INC. Renewed July 29, 1939, to Phelps Dodge Copper Products Corporation, New York, N. Y., a corporation of Delaware, assignee.

126,831. **COUNTRY CLUB.** BIRCH-BEER, ROOT-BEER, LEMON-SODA, CREAM-SODA, AND ORANGE-SODA, ARTIFICIALLY FLAVORED, AND GINGER-ALE. Registered October 7, 1919. COUNTRY CLUB SODA COMPANY, INCORPORATED, Springfield, Mass., a corporation of Massachusetts. Renewed October 7, 1939.

127,058. **H. & B. LIGHT LOAF.** WHEAT-FLOUR. Registered October 21, 1919. HOLMES & BARNES, LTD., Baton Rouge, La., a corporation of Louisiana. Renewed October 21, 1939.

127,174. **ECH-KRAFT.** SHEET METAL ORNAMENTED WITH A DECORATIVE COATING. Registered October 21, 1919. AMERICAN CAN COMPANY, New York, N. Y., a corporation of New Jersey. Renewed October 21, 1939.

127,269. **HYRIZER.** WHEAT-FLOUR. Registered November 4, 1919. COMMANDER MILL CO. Renewed November 4, 1939, to Commander-Larabee Milling Company, Minneapolis, Minn., a corporation of Delaware, assignee by mesne assignments.

127,426. **FOOTOGS.** BOOTS, SHOES, AND SANDALS OF KID, LEATHER, AND CANVAS. Registered November 11, 1919. THE JUVENILE SHOE CORPORATION OF AMERICA, St. Louis, Mo. Renewed November 11, 1939, to The Juvenile Shoe Corporation of America, Aurora and St. Louis, Mo., a corporation of Missouri.

127,565. **JIFFY.** BABY-PANTS. Registered November 11, 1919. I. B. KLEINERT RUBBER COMPANY, New York, N. Y., a corporation of New York. Renewed November 11, 1939.

127,639. **OLD JUDGE.** TEAS, MUSTARD, COFFEE, GROUND BLACK PEPPER, AND FLAVORING EXTRACTS FOR FOODS. Registered November 18, 1919. MEYER BROS. COFFEE AND SPICE CO. Renewed November 18, 1939, to David G. Evans Coffee Company, St. Louis, Mo., a corporation of Missouri, assignee.

LABELS

REGISTERED JULY 4, 1939

53,208.—*Title:* BEECH-NUT ASSORTED COOKIES. For Assorted Cookies. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 24, 1939.

53,209.—*Title:* BEECH-NUT SOYA COCKTAILETTES. For Biscuits. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 29, 1939.

53,210.—*Title:* C AND H SUGAR PURE CANE XXXXXX CONFECTIONERS POWDERED. For Sugar. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, LIMITED, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. Published June 2, 1939.

53,211.—*Title:* FINE FOOTWEAR. For Footwear. A. C. CLAYTON PRINTING COMPANY, St. Louis, Mo. Published June 2, 1939.

53,212.—*Title:* GREEN TINTED ZEE TISSUE FAMILY-PAK. For Toilet Tissue. COMFORT PAPER CORPORATION, San Francisco, Calif. Published May 4, 1939.

53,213.—*Title:* ORCHID TINTED ZEE TISSUE FAMILY-PAK. For Toilet Tissue. COMFORT PAPER CORPORATION, San Francisco, Calif. Published May 4, 1939.

53,214.—*Title:* SALVUS SUTURES. For Sutures. DAVIS & PITANN LTD., Chicago, Ill. Published March 16, 1939.

53,215.—*Title:* NUTMEG STATE. For Ale. EASTERN BREWING CORPORATION, Waterbury, Conn. Published May 16, 1939.

53,216.—*Title:* NUTMEG STATE. For Beer. EASTERN BREWING CORPORATION, Waterbury, Conn. Published May 16, 1939.

53,217.—*Title:* FLASH. For a Firefighting Device. ANDREW WARWICK GILLESPIE, Green Bay, Wis. Published May 15, 1939.

53,218.—*Title:* SKIPPY. For Chewing Gum. GUMAKERS OF AMERICA, INC., Clifton Heights, Pa. Published June 7, 1939.

53,219.—*Title:* COLONEL CRUNCH. For Popped Popcorn. CHAS. HEFLEY, doing business as Chas. Hefley Popcorn Products, Los Angeles, Calif. Published June 5, 1939.

53,220.—*Title:* SLIP-O-NET. For Hair Nets. IMPROVED HAIR NET CO., New York, N. Y. Published June 1, 1939.

53,221.—*Title:* GERM-O-WEAT. For Bread. INTERSTATE BAKERIES CORPORATION, Los Angeles, Calif. Published March 30, 1939.

53,222.—*Title:* MEAD'S OLEUM PERCOMORPHUM 50%. For a Blend of the Liver Oils of Percomorph Fishes, Admixed With Not More Than 50% Cod Liver Oil, Containing Not Less Than 60,000 Vitamin A Units, U. S. P., and Not Less Than 8,500 Vitamin D Units, U. S. P. per Gram. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 31, 1939.

53,223.—*Title:* MEAD'S STANDARDIZED COD LIVER OIL. For Cod Liver Oil Containing Not Less Than 1,800 Vitamin A Units, U. S. P., and Not Less Than 175 Vitamin D Units, U. S. P., per Gram. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 29, 1939.

53,224.—*Title:* MEAD'S POWDERED PROTEIN MILK. For Homogenized, Spray-Dried Mixture of Whole Milk Curd and Skim Milk Acidified with Lactic Acid. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 19, 1939.

53,225.—*Title:* MEAD'S POWDERED LACTIC ACID MILK NO. 2. For Whole Milk Acidified with Lactic Acid, Homogenized and Spray-Dried. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 29, 1939.

53,226.—*Title:* MEAD'S POWDERED WHOLE MILK. For Powdered Whole Milk. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 9, 1939.

53,227.—*Title:* MEAD'S POWDERED WHOLE MILK WITH DEXTRI-MALTOSE. For a Homogenized, Spray-Dried Mixture of Whole Milk, Maltose, and Dextrins. MEAD JOHNSON & COMPANY, Evansville, Ind. Published May 19, 1939.

53,228.—*Title:* KEMP'S OLD FASHIONED MOLASSES POP CORN. For Molasses Pop Corn. E. F. KEMP, INC., Somerville, Mass. Published May 29, 1939.

53,229.—*Title:* DUTCH BOY. For Fresh Vegetables. T. M. PARKS, Lompoc, Calif. Published May 1, 1939.

53,230.—*Title:* PICKLE PATCH. For Dill Pickles. W. B. RODDENBERRY CO., Cairo, Ga. Published April 6, 1939.

53,231.—*Title:* SAFE-BAKED. For Bread. STROEHMANN BROTHERS COMPANY, Harrisburg, Pa., assignor to Marbridge Printing Company, Inc., New York, N. Y. Published May 6, 1939.

53,232.—*Title:* K. TAYLOR. For Kentucky Straight Bourbon Whiskey. THE K. TAYLOR DISTILLING CO., INC., Frankfort, Ky. Published March 1, 1939.

53,233.—*Title:* TENNESSEE ELBERTA PEACHES INDIVIDUAL SLICES QUICK FROZEN. For Quick Frozen Individual Slices of Elberta Peaches. UNIVERSITY OF TENNESSEE ENGINEERING EXPERIMENT STATION, Knoxville, Tenn. Published September 29, 1938.

53,234.—*Title:* VI-TI-MI BRAND. For Dog and Cat Food. VI-TI-MI PRODUCTS, Greenwich, Conn. Published February 1, 1939.

53,235.—*Title:* ROSE-GLO. For a Scientific Toilet Bowl Deodorizer and Cleaner. WONDER PRODUCTS COMPANY, Canton, Ohio. Published April 11, 1939.

PRINTS

REGISTERED JULY 4, 1939

17,469.—*Title:* IT'S EASY TO BAKE AND EASY TO TAKE! For Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published June 1, 1939.

17,470.—*Title:* COFFEE SHOULD BE SERVED WITH PRIDE. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published May 3, 1939.

17,471.—*Title:* TASTES BECOME KEEN WHEN COFFEE APPEARS. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published April 19, 1939.

17,472.—*Title:* DOES THE COFFEE YOU SERVE REPRESENT YOU? For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published March 15, 1939.

17,473.—*Title:* TASTES ARE 'FOCUSED' ON COFFEE. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published May 24, 1939.

17,474.—*Title:* COFFEE IS VULNERABLE TO EVERY TASTE. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published March 29, 1939.

17,475.—*Title:* COFFEE SHOULD BE THE MEAL'S BRIGHT SPOT. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published March 1, 1939.

17,476.—*Title:* WILL YOUR COFFEE STAND A FRANK OPINION? For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published May 10, 1939.

17,477.—*Title:* EVERY MEAL IS AN 'EXPOSITION' FOR COFFEE. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published March 8, 1939.

17,478.—*Title:* A MEAL IS JUDGED BY ITS COFFEE. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published April 26, 1939.

17,479.—*Title:* IS YOUR COFFEE ALWAYS AT ITS BEST? For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published February 22, 1939.

17,480.—*Title:* COFFEE MUST ALWAYS BE "JUST RIGHT" TOO. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published February 15, 1939.

17,481.—*Title:* FLAVOR IS THE "VOICE" OF COFFEE. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published March 22, 1939.

17,482.—*Title:* DO YOUR GUESTS LIKE THE COFFEE YOU SERVE? For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published May 17, 1939.

17,483.—*Title:* LOOK INTO THE WISHING WELL TO SEE THE GIFT-PEN THAT GRADUATES HAVE SET THEIR HEARTS ON! For Fountain Pens, Mechanical Pencils, and Ink. THE PARKER PEN COMPANY, Janesville, Wis. Published May 27, 1939.

17,484.—*Title:* CAMISOLE CULOTTE SLIP. For a Trouser Slip. RAHEB-DIAT, INC., New York, N. Y. Published May 17, 1939.

17,485.—*Title:* SENSATION OF THE YEAR! For Ice Cream Sodas. WELCH FRUIT PRODUCTS CO., Chicago, Ill. Published March 30, 1939.

REISSUES

JULY 4, 1939

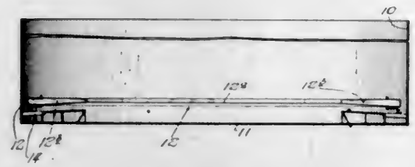
21,135

LIQUID STORAGE TANK WITH FLOATING ROOF

Otterbein A. Bailey, Chicago, Ill., assignor to Chicago Bridge & Iron Company, Chicago, Ill., a corporation of Illinois

Original No. 1,932,392, dated October 31, 1933, Serial No. 628,753, August 13, 1932. Application for reissue February 15, 1939, Serial No. 256,611

7 Claims. (Cl. 220—26)



1. A liquid storage tank, comprising a bottom and side wall, a floating roof adapted to normally rest upon liquid in the tank, a set of hinged supports between the roof and the bottom of the tank swingable from operative position where they will support the roof spaced a predetermined distance above the bottom of the tank to inoperative position where they will permit the roof to descend closer to the bottom of the tank, and vice versa, and means for controlling said supports from above the roof.

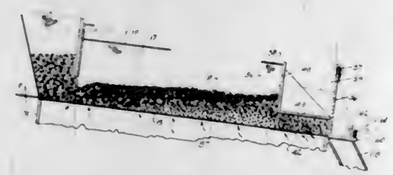
21,136

PROCESS AND MECHANISM FOR DIVIDING INTERMIXED MATERIALS

Kenneth Davis, Punxsutawney, Pa., assignor, by mesne assignments, to Richard Peale, Morton F. Locke, and William B. Oakes, trustees

Original No. 1,786,738, dated December 30, 1930, Serial No. 553,250, April 15, 1922. Application for reissue August 10, 1938, Serial No. 224,228

24 Claims. (Cl. 209—467)



21. The method of discharging a settled heavier material from a forwardly and downwardly inclined, stratified bed of materials of different specific gravities which comprises vibrating the bed to intermittently advance the settled heavier material longitudinally of and to the forward end of the bed, and regulating the discharge thereof from the forward end of the bed by air and regulable mechanical pressure, the mechanical pressure opposing said discharge and being intermittently exceeded by pressure resulting from the accumulation of the heavier material to be discharged.

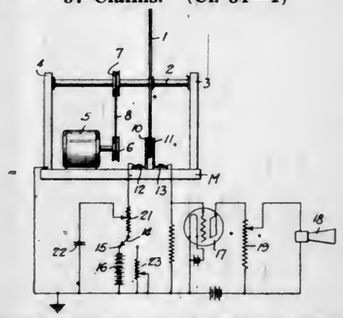
21,137

ORGAN

Floyd A. Firestone, Ann Arbor, Mich., assignor to Central Commercial Company, Chicago, Ill., a corporation of Illinois

Original No. 1,953,753, dated April 3, 1934, Serial No. 372,200, June 19, 1929. Application for reissue March 9, 1936, Serial No. 67,991

57 Claims. (Cl. 84—1)



1. In combination, means of generating alternating currents of a multiplicity of frequencies, a loud speaker, and means for regulating as a function of the time the amount of current of any frequency supplied by said generating means to said loud speaker.

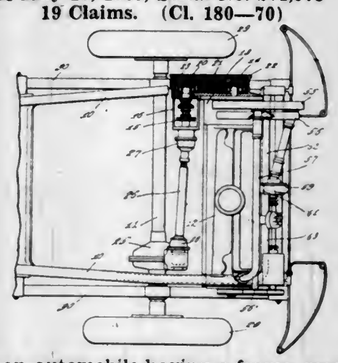
21,138

AUTOMOBILE

Jules Haltenberger, Ann Arbor, Mich.

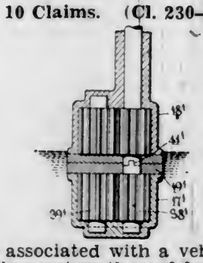
Original No. 2,032,876, dated March 3, 1936, Serial No. 534,568, May 2, 1931. Application for reissue May 16, 1939, Serial No. 274,073

19 Claims. (Cl. 180—70)



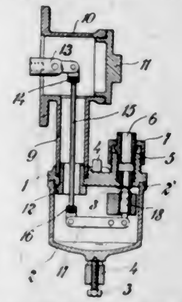
1. In an automobile having a frame, rear drive wheels, and an axle housing on which said wheels are mounted, an engine mounted on said frame in rear of said axle housing, said engine being disposed transversely of said frame; change-speed transmission mechanism disposed between said engine and said axle housing and adjacent one side of said frame, and power-transmitting connections between said engine and said change-speed transmission mechanism and between the latter and said wheels, said connections including differential mechanism supported in said housing near that end thereof which is opposite said transmission mechanism.

21,139
MOTOR VEHICLE SYSTEM
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Original No. 2,088,908, dated August 3, 1937, Serial No. 36,599, August 16, 1935. Application for reissue September 30, 1938, Serial No. 232,618
10 Claims. (Cl. 230—38)



1. Means associated with a vehicle engine and the lubricating system thereof for producing suction, said engine having a pump shaft, comprising a driving pump gear on said shaft casing means enclosing said gear a driven pump gear meshing with said driving gear in said casing and inlet and outlet passages from said pump casing on opposite sides of said gears for respectively receiving oil from the engine crankcase and discharging it into the distributing system for lubricating the engine, a second driving gear driven by said shaft, a second driven gear meshing with said second driving gear casing means enclosing said second gears and providing an inlet and an outlet chamber on opposite sides of the second gears, means for connecting the inlet chamber to a suction line and a fluid passage for conducting fluid from the outlet chamber to the engine crank case, and a fluid passage extending between said outlet passage and said inlet chamber for conducting a limited quantity of oil for lubricating and sealing said second gears for pumping action.

21,140
AUTOMATIC FEED WATER VALVE FOR BOILERS
Robert Mahler, New York, N. Y.
Original No. 2,079,810, dated May 11, 1937, Serial No. 83,709, June 5, 1936. Application for reissue March 7, 1939, Serial No. 260,292
4 Claims. (Cl. 137—101)



1. An automatic feed water valve for boilers comprising, in combination, a float arm for extension into a boiler, a casing for direct connection to the boiler, a tube leading substantially vertically downward from said casing, an enlarged chamber connected to said tube and having a considerably larger diameter than said tube, a feed water valve in said enlarged chamber, a cover for said chamber, a valve seat in said cover, an easily detachable bottom for said enlarged chamber and a lever connection leading directly from the float arm through said vertical connecting tube to the feed water valve, the valve seat being arranged so that a stream of water from the water pipe line through the valve is directed downwardly, the valve seat being located at the side of the tube and above the bottom of the chamber.

PLANT PATENTS

GRANTED JULY 4, 1939

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

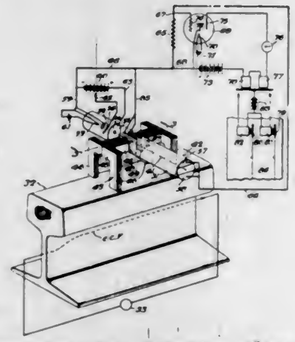
334
HYBRID TEA ROSE
Nicholas Grillo, Milldale, Conn.
Application August 24, 1938, Serial No. 226,539
1 Claim. (Cl. 47—61)

A new and distinct variety of rose plant, substantially as shown and described, characterized particularly by its prolific growth, its flowers of distinctive unfading yellow color differing with the seasons as described, and its buds of distinctive form.

PATENTS

GRANTED JULY 4, 1939

2,164,302
METHOD AND APPARATUS FOR DETECTING FLAWS IN METALLIC BODIES
Walter C. Barnes, Lake Bluff, and Henry W. Keevil, Highland Park, Ill.
Application December 26, 1934, Serial No. 759,148
7 Claims. (Cl. 175—183)



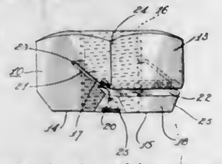
1. Apparatus for detecting flaws in rails through which an electrical current is passing, comprising a detector unit for locating variations in the magnetic field surrounding the rail, said unit including a cathode ray tube and a core of magnetic material intersecting the tube, the core terminating in legs extending downwardly toward the rail.

2,164,303
TOOL FOR CUTTING OR TURNING
Alfred J. Berg, Portsmouth, N. H., and John O. Huse, United States Navy
Application December 8, 1937, Serial No. 178,700
5 Claims. (Cl. 29—95)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



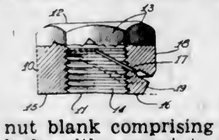
1. A tool for turning metal having an arched cutting edge and an arched side rake surface.

2,164,304
NUT AND METHOD OF MAKING THE SAME
William A. Bergstrom, Chicago, Ill., assignor to Renchtite Spring Nut Company, San Francisco, Calif., a corporation of California
Application October 14, 1937, Serial No. 168,991
19 Claims. (Cl. 10—86)



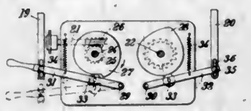
1. The method of making a spring nut consisting in hot forging a bar of strong, tough, free milling steel having a carbon content of from 0.4% to 0.75% to the desired shape creating a blank having a bore and a portion or its inner face extending outwardly at an angle to the remainder of said face and a plane surface at a corner of the blank angularly disposed to the face of the blank, tapping the bore of the blank oversize in comparison to recognized standard, slotting the blank between its outer face and the angular disposed portion of its inner face, said plane surface being held at right angles to the plane of the resulting slot during said operation, and hardening the nut by heating, quenching and drawing to degree within the range of 300 to 400 of the Brinell hardness test.

2,164,305
NUT LOCK BLANK
William A. Bergstrom, Chicago, Ill., assignor to Renchtite Spring Nut Company, San Francisco, Calif., a corporation of California
Application October 14, 1937, Serial No. 168,992
10 Claims. (Cl. 151—21)



1. A lock nut blank comprising a body to be slotted angularly with respect to its faces, and means integral with and forming a part of said blank, having at least a portion thereof normal to the plane of a cutting tool for preventing any movement, other than the normal cutting movement, of the cutting tool relative to the nut at the start of the slotting thereof.

2,164,306
SPEED REGULATING MECHANISM
Rolf Böhringer and Ruthard Germar, Goppingen, Germany
Application June 22, 1938, Serial No. 215,172
In Germany June 29, 1937
6 Claims. (Cl. 57—95)

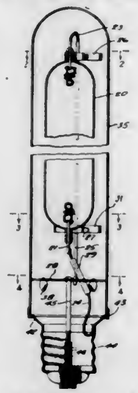


1. A machine including a driving shaft, a driven shaft, a hydraulic transmission interposed between said shafts, said transmission including a variable pump provided with a pump regulating member and a variable fluid motor provided with a motor regulating member, two speed control elements and means connecting one element with said pump regulating member and the other one of said elements with said motor regulating member.

2,164,307
DISCHARGE DEVICE
Friederich H. A. Brandt, New York, N. Y.
Application October 26, 1937, Serial No. 171,050
12 Claims. (Cl. 176—122)

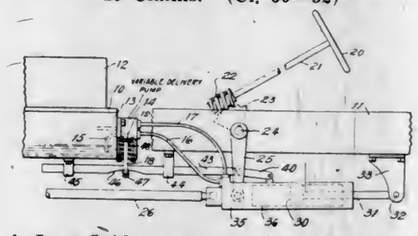
1. A lamp comprising a gaseous discharge tube, a light permeable open ended jacket adapted to

receive and protect the discharge tube and having approximately cylindrical form from the open end to the opposite end of the discharge tube, and having inwardly directed projections on its wall near the open end, a frame for supporting the discharge tube in the jacket having means to engage the jacket for positioning the frame therein, at least one longitudinal member, transverse members mounted on the longitudinal member and engaging the ends of the discharge tube and movable longitudinally relative to one another for insertion and removal of a discharge tube between them and means for holding the transverse members on the longitudinal member to prevent such relative movement, said frame



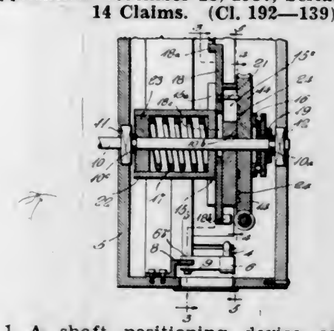
with the discharge tube mounted therein being movable as a unit and dimensioned for insertion into and removed from the open end of said jacket, a resilient disk in the jacket having peripheral notches adapted to pass the projection on the jacket and lesser notches adapted to engage said projections and lock the disk thereon against turning and against longitudinal removal, an insulating collar over the open end of the jacket having a flange adapted to fit a connector base, a connector base on said flange, a bolt connecting the connector base to said disk to hold the connector base and through it said washer in place on the jacket, and means for connecting contacts of the connector base to the discharge tube.

2,164,308
POWER OUTPUT CONTROL
Hugo A. Centervall, Brooklyn, N. Y., assignor to Manly Corporation, New York, N. Y., a corporation of Delaware
Application January 21, 1936, Serial No. 60,045
10 Claims. (Cl. 60—52)



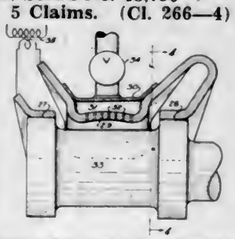
1. In a fluid pressure operated device, a variable stroke pump, a power mechanism operated by fluid delivered by said pump, manually operated control means for said power mechanism, and separate stroke-varying means for said pump acting independently of the operation of the manually operated control means to determine the volume of fluid delivered by the pump at the different points of range of movement of the power mechanism, said stroke-varying means being adapted to effect pump stroke of minimum length upon movement of said power mechanism responsive to movement of said manually operated control means throughout a limited range and to increase said pump stroke upon movement of said power mechanism responsive to movement of said manually operated control means beyond said limited range.

2,164,309
SHAFT-POSITIONING DEVICE
Arthur A. Collins, Cedar Rapids, Iowa
Application December 18, 1937, Serial No. 180,658
14 Claims. (Cl. 192—139)



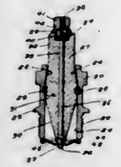
1. A shaft positioning device comprising a shaft, a driving clutch member rotatably mounted on the shaft, a driven clutch member slidably and non-rotatably mounted on the shaft in frictional engagement with the aforesaid member, a stop arm mounted for rotation with and radial displacement with respect to said driven clutch member, fixed stops cooperable with said stop arm, and means for interconnecting said stop arm and said driving clutch member for radially displacing said stop arm from engagement with one of said stops upon relative movement of said stop arm and said driving clutch member, said stop arm being held against rotary movement by engagement thereof with the said one of said stops, the aforesaid means including means for maintaining said stop arm in radially displaced position.

2,164,310
APPARATUS FOR HARDENING
Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Original application March 29, 1934, Serial No. 718,002. Divided and this application November 7, 1935, Serial No. 48,750
5 Claims. (Cl. 266—4)



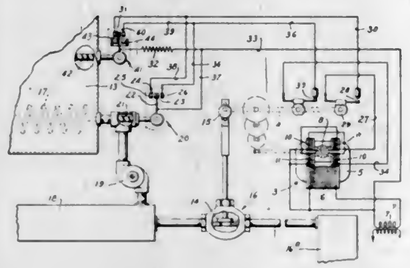
1. In a device for heat treating a portion of a metallic article, a source of alternating current of high frequency, a hollow conductor, means for electrically connecting said hollow conductor to the article in series with said source and in such a manner that said conductor lies parallel and close to the surface of the article and in reverse current relation thereto, said hollow conductor having a plurality of apertures communicating with the interior thereof and directed toward the portion of the article to be heated and a valve controlled fluid pressure source in fluid connecting relation to said hollow conductor.

2,164,311
HIGH TENSION SPARK DEVICE
James A. Doran, Providence, R. I.
Application October 4, 1932, Serial No. 636,154
Renewed March 28, 1938
11 Claims. (Cl. 123—169)



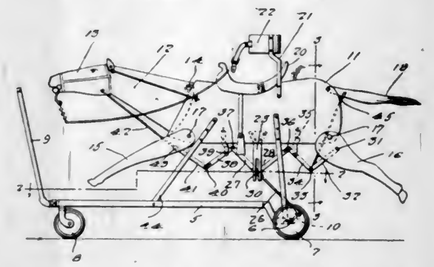
1. An insulator for a spark plug having a cylindrical center portion, a tapered firing tip portion, and a contact end portion of smaller diameter than said center portion and joined to said center portion by a tapered seat portion, said cylindrical center portion having an annular groove.

2,164,312
CONTROL FOR TEMPERATURE REGULATING SYSTEMS AND THE LIKE
George Forrest Drake, Rockford, Ill., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application December 7, 1934, Serial No. 756,417
15 Claims. (Cl. 236—74)



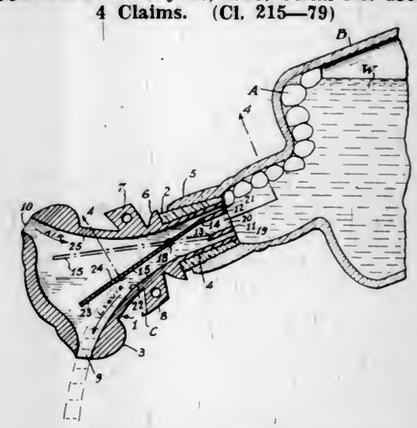
10. A temperature control system comprising, in combination, a regulating device movable in opposite directions, electric motor driven means for actuating said device including two windings respectively adapted when rendered active to induce movement of said device in opposite directions, a high resistance circuit through one of said windings arranged to be maintained closed independently of the position of said device, low resistance circuits through the respective windings each including a control switch, and a single thermostatic element arranged to close said switches at substantially different temperatures.

2,164,313
MECHANICAL TOY
Jesus Maria Duarte J., El Paso, Tex.
Application June 10, 1938, Serial No. 213,052
2 Claims. (Cl. 280—47)



1. An amusement device comprising a body, a wheeled carriage upon which the body is supported, said wheeled carriage including a crank axle and wheels on said axle, said body being provided with swingable front and rear legs, a V-shaped member, a connecting rod extending from the V-shaped member and in alignment with one leg portion thereof, said connecting rod being connected to the crank axle, and connecting means between the V-shaped member and the legs, said body being provided with a depending slotted guide, said V-shaped member being provided with a laterally disposed trunnion disposed into the guide.

2,164,314
COMBINED CLOSURE AND DISPENSING DEVICE
Edward P. Edwards, Larchmont, N. Y., assignor to Oldetyme Distillers, Inc., New York, N. Y., a corporation of New Jersey
Application January 17, 1938, Serial No. 185,437
4 Claims. (Cl. 215—79)



1. A combined closure and dispensing device for liquid containers, said device consisting of an upper portion and a lower portion, the upper portion being provided with two openings, each one of which is adapted to serve either as a pouring spout or as an air vent, the lower portion being adapted to be received within the open end of the neck of a bottle containing a liquid, the device being provided with two vertical passageways communicating with the bottle and each terminating at its upper end in one of the afore-

said openings, said passageways having a common partition pivoted intermediate its ends so as to tilt in the same direction as the bottle.

2,164,315
COMBINED CLOSURE AND DISPENSING DEVICE
Edward P. Edwards, Larchmont, N. Y., assignor to Oldetyme Distillers, Inc., New York, N. Y., a corporation of New Jersey
Application April 15, 1938, Serial No. 202,324
10 Claims. (Cl. 215—79)



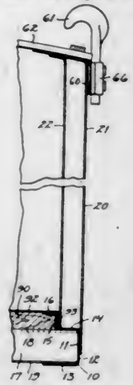
1. A pourer for a liquid container—said pourer comprising a hollow body member; two partitions positioned within said hollow body member and dividing said hollow body member into a central chamber closed at its upper end and two substantially equal flanking chambers, each of said partitions having an opening formed therein near the upper end thereof thereby establishing communication between the closed upper end of said central chamber and each of said flanking chambers, each of said three chambers being provided with an opening near the lower end thereof for establishing communication between each of said three chambers and the container in association with which the pourer is to be used and each of said flanking chambers being further provided with an opening near the upper end thereof for establishing communication between each of said flanking chambers and the atmosphere.

2,164,316
DISINFECTING PROCESS
William H. Engels, Rahway, N. J., assignor to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application February 14, 1935, Serial No. 6,483
6 Claims. (Cl. 21—58)

4. A method of protecting newly incubator-born fowl against attack by disease germs, especially of the order of *Salmonella pullorum*, which comprises impregnating the hatcher atmosphere with chlorthymol in its vapor phase at a substantially constant equilibrium.

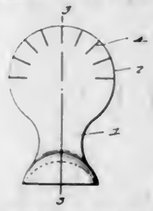
2,164,317
DEMOUNTABLE FREIGHT CONTAINER
Benjamin F. Fitch, Greenwich, Conn., assignor to Motor Terminals, Inc., Cleveland, Ohio, a corporation of Ohio
Application February 3, 1936, Serial No. 62,096
8 Claims. (Cl. 220—1.5)

1. A demountable freight container having a floor frame with a rabbeted upper edge, a fixed side wall comprising inner and outer sheets spaced apart, the inner sheet occupying the rabbet and secured to the upright face thereof and



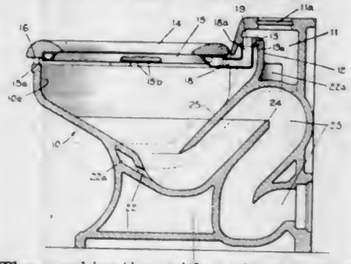
the outer sheet extending across the outer face of the sill proper and secured to it.

2,164,318
CARD HOLDER
Mabel E. Graunke, Westpoint, Nebr.
Application April 1, 1938, Serial No. 199,519
1 Claim. (Cl. 248—206)



A holder for displaying cards to view comprising a suction cup for attachment to a desk, table, wall, or the like, a shank extending axially from said cup, and an enlarged flat head of circular form extending from said shank edgewise and having circumferentially spaced radial slots in the periphery thereof for the insertion of cards therein fanwise to present the same to view at selected angles to the line of sight, said cup and shank being formed of a single piece of resilient material.

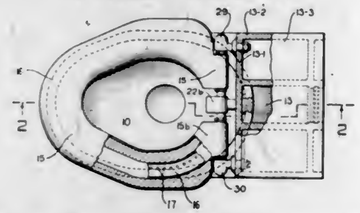
2,164,319
WATER CLOSET OR DEFECATOR
William C. Groeniger, Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application December 31, 1937, Serial No. 182,752
13 Claims. (Cl. 4—10)



1. The combination with a closet bowl, including a water supply channel unitarily constructed

therewith, a wall in common with such water supply channel and the bowl proper being provided with an opening affording communication between the water supply channel and the interior of the bowl at a locality in proximity of an inner face of the bowl proper, of seat means and therewith mechanically associated rim flush means, means for displaceably relating said seat means and said rim flush means relative to the upper rim of the closet bowl to afford variant position of said seat means and said rim flush means from supported position relative to the upper rim of the closet bowl to a position remote from such supported position, and means affording communication between said water supply channel and the interior of said rim flush means when said seat means and rim flush means are in rim supported position.

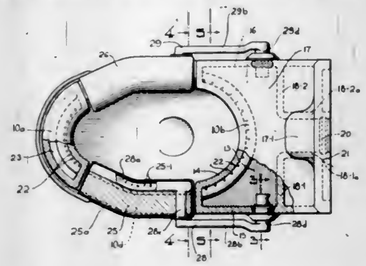
2,164,320
COMBINATION SEAT AND FLUSH RIM
William C. Groeniger, Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application April 8, 1938, Serial No. 200,829
8 Claims. (Cl. 4—70)



1. In waste disposal apparatus provided with a bowl for receiving and discharging waste matter and with means for the supply of flushing liquid to the bowl, flow channel providing means structurally independent of the bowl but associated therewith for effecting flushing thereof, and valve mechanism forming a hinge mounting for said flow channel providing means while establishing controllable flow communication between said means for the supply of flushing liquid and said flow channel providing means, said valve mechanism comprising concentric valve elements having a hollow axial core which forms a flow passage, ports in said valve mechanism registering with the flow channel of said flow channel providing structure and establishing flow communication between said axial core and said flow channel throughout the full range of movement of the latter, flow passage means connecting the valve mechanism with said liquid supply means, and a plurality of cooperating ports in the component valve elements adapted to regulate flow of flushing liquid from said flow passage means into said axial core and from said axial core directly into said bowl.

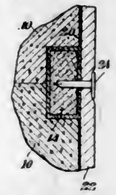
2,164,321
DEFECATOR
William C. Groeniger, Columbus, Ohio, assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application July 9, 1938, Serial No. 218,332
7 Claims. (Cl. 4—10)

1. Waste disposal apparatus comprising a waste receiving and discharging bowl, flushing liquid supply means, and independent rim-channel structure for said bowl hinged in flow-receiving communication with said supply means, said bowl including peripherally spaced rim-channel portions provided with jet openings directed into the bowl, and channel means establishing flow communication between said respective rim-channel portions and said supply means, said independent rim-channel structure comprising independent rim-channel portions formed and spaced for substantial registry with the portions of the rim of



the bowl which lie between the rim-channel portions thereof, said independent rim-channel portions being provided with jet openings directed into the bowl, and conduit means connecting the independent rim-channel portions in hinge relationship with said flushing liquid supply means and establishing controlled flow communication therebetween.

2,164,322
BUILDING CONSTRUCTION AND BUILDING ELEMENT
Frank R. Hahn, Decatur, Ill.
Application August 17, 1935, Serial No. 36,669
8 Claims. (Cl. 72—16)

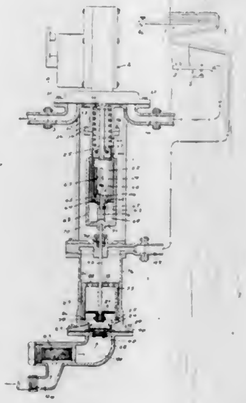


1. A construction of the character described, including, a wall provided with elongated cavities, asphaltic waterproof adhesive means in said cavities, and fibrous nailing strips held in said cavities by said waterproof adhesive means, said strips having a complete covering surface of asphaltic waterproof material.

2,164,323
AUTOMATIC GAS AND WATER REGULATOR
Otto W. Hahn, San Francisco, Calif., assignor to Industrial Research Laboratories, Ltd., a corporation of Nevada
Application December 14, 1935, Serial No. 54,454
13 Claims. (Cl. 236—25)

1. A gas valve comprising a body having a through-passage provided with an inlet and an outlet, a faced valve block reciprocably positioned within said body normally closing said passage and provided with a port adapted to progressively open said passage to flow of gas upon reciprocation of said valve block, a member having a flat side rotatably positioned within said body with its flat side positioned adjacent the faced surface of said block, said member being disposed across said passage and being ported to progressively open said passage to flow of gas

to said block upon rotating said member, means yieldably urging said block toward said member, means accessible from outside said body for rotating said member and means for reciprocating said block.



7. In a gas and water regulator for a quick water heater, a water valve and a gas valve, means by which both valves are operated through water pressure on the water valve, said water valve comprising a body having a through-passage provided with an inlet and an outlet, a piston movable within said passage operated by unbalanced pressure thereon and provided with a port adapted to permit passage of water therethrough from one side of the piston to the other, a member floatingly mounted within said passage arranged and adapted for free movement under the influence of gravity to open said port and responsive to dynamic pressure of water in moving through the passage from the inlet to the outlet to move to close said port.

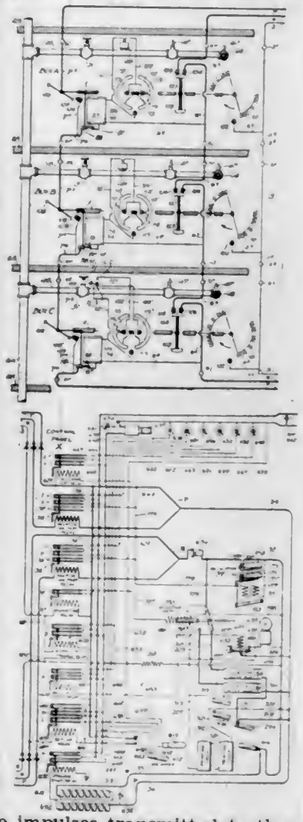
2,164,324

ELECTRIC SIGNALING, SUPERVISING, AND RECORDING SYSTEM

James R. Harrington, Oak Park, Ill., assignor, by mesne assignments, to The Autocall Company, Shelby, Ohio, a corporation of Ohio

Application July 14, 1931, Serial No. 550,739
41 Claims. (Cl. 177—360)

1. In a system of the class described, the combination of a pulsator for transmitting electrical impulses, a series of signal boxes each comprising a signal wheel and a step-by-step electric motor element including an oscillating armature operative to advance said signal wheel in its retractive movements, a box operating circuit for conducting said electrical impulses from said pulsator to said motor elements for energizing the latter, signal receiving apparatus comprising a selector coil and a step-up coil also adapted to be energized by the impulses from said pulsator, a directing switch adapted in one position to direct said impulses to said selector coil and in the other position to direct said impulses to said step-up coil, signal contacts in each box brought into and out of engagement by the rotation of said signal wheel, and means controlled by said signal contacts for shifting said directive switch from one position to the other, said latter means functioning to shift said switch between attractive movements of said armature, whereby the switch is positioned during the time interval between



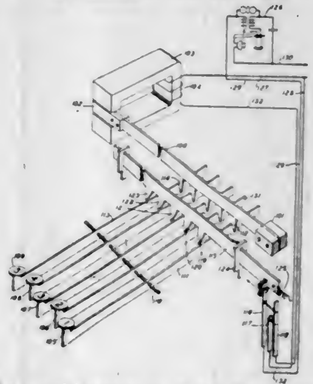
successive impulses transmitted to the signaling box and to said signal receiving means.

2,164,325

TELEPHONE SYSTEM

Ralph V. L. Hartley, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 31, 1937, Serial No. 161,740
10 Claims. (Cl. 179—18)



1. The combination in a signaling system of a line having a station thereon, a source of alternating current of a given frequency, means for connecting said source to said line to supply current thereto, an oscillating device at said station responsive to current from said source to oscillate at its natural frequency, means for combining the frequency of said source and the frequency of said oscillating device to produce in said line a current of a resultant frequency, and means selectively operable in response to said resultant frequency current.

2,164,326

COMPOSITION OF MATTER AND METHODS AND STEPS OF MAKING AND USING THE SAME

Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application August 24, 1935, Serial No. 37,749
6 Claims. (Cl. 106—7.5)

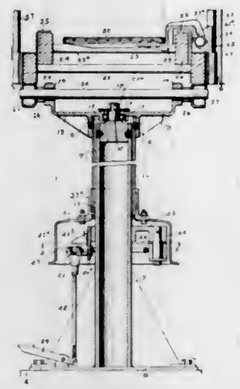
1. A friction element selected from the class consisting of brakes, clutches, and pulleys and comprising an infusible phenolic resin in the pulverized form and a binder therefor, the said resin and binder being of such characteristics and of such relative proportion as to cooperate to produce an effective brake, clutch, or pulley and to maintain favorable constancy of heat conductivity and friction coefficient at temperatures from the normal up to the carbonizing point.

2,164,327

UTILITY TRUCK

Paul E. Hawkins, Lakewood, Ohio, assignor to The Baker-Raulang Company, Cleveland, Ohio, a corporation of Ohio

Application August 4, 1937, Serial No. 157,400
10 Claims. (Cl. 228—6)



3. In a vehicle having a platform thereon, the combination of a column on said platform, a ladder mounted to tilt and swing laterally on said column and comprising a main section and a separate section normally disposed in superposed relation to said main section, said separate section being slidable endwise on said main section, and a walk extending longitudinally of said ladder and arranged to normally lie on one of said sections, said walk being hinged along one side to one rail of said main section whereby it may be swung to an inoperative position at one side thereof.

2,164,328

INSECT REPELLENT

Harold R. Hay, St. Louis, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application December 10, 1934, Serial No. 756,827
5 Claims. (Cl. 21—43)

1. The method of protecting green logs and green lumber from attack by wood boring insects of the beetle type which comprises applying to the surface of said logs and lumber a polyphenyl material selected from the group consisting of diphenyl and triphenyl.

3. As a repellent for insects of the beetle type which normally attack green logs and green lumber, a polyphenyl selected from the group consisting of diphenyl and triphenyl.

2,164,329

ROOFING GRANULES

Clifford Langley Jewett, Minneapolis, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware

No Drawing. Application July 15, 1935, Serial No. 31,451
3 Claims. (Cl. 91—70)

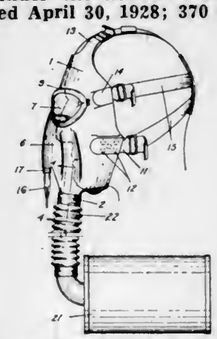
1. The process of treating granular mineral material which includes the steps of adding to the particles an aqueous solution of a potentially reactive phenolaldehyde resinous material to superficially treat the exterior surface of said particles, the aqueous vehicle being driven off and the resinous material being converted into an insoluble stage by heat, the quantity of the aqueous material being added to leave upon the granular mineral particles a small amount of deposit that no change in the underlying color of the granule comes about but providing for adhesion between the external surface of the granule with respect to organic materials of the character of asphalt and providing an effective bond between the deposit and the granule itself, said quantity of the deposit being of the order exemplified by five (5) ounces of solids of the insoluble resinous material to one (1) ton of the granular mineral particles.

2,164,330

FULLY MOLDED GAS MASK FACEPIECE

Sidney H. Katz, Edgewood Arsenal, and Dallas O. Burger, Belair, Md., assignors to the Government of the United States of America, as represented by the Secretary of War

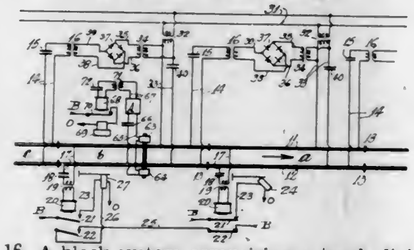
Application July 10, 1937, Serial No. 152,954
8 Claims. (Cl. 128—141)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A gas mask facepiece of rubber or other plastic material having transparent lenses, two

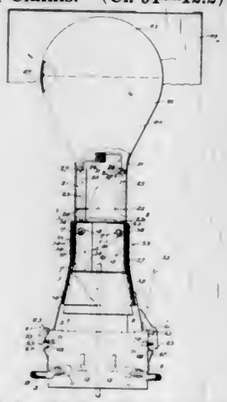
deflector tubes extending upwardly along the cheek portions and having their upper ends turned outwardly at the lower edges of the lenses, an inlet tube beneath and in front of the chin portion of said facepiece, said deflector tubes joined to said inlet tube, an outlet tube forwardly of the inlet tube, said deflector tubes, inlet tube and outlet tube being integral with the facepiece, and an inlet hose and an outlet valve directly connected to the inlet tube and outlet tube, respectively.

2,164,331
BLOCK SYSTEM
Matthew H. Loughridge, Bogota, N. J.
Application February 24, 1936, Serial No. 65,249
16 Claims. (Cl. 246—31)



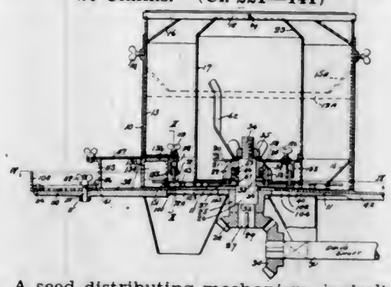
16. A block system comprising a track divided into blocks with a trackway circuit for each block, means for energizing each track circuit with block current, a control circuit for each block circuit, means embodied in said control circuit producing a characteristic in said block circuit different from said control circuit, means for shunting said control circuit by a train as it moves along the track in one of said blocks and a translating device operatively associated with the trackway circuit selectively responsive to said block current and controlling traffic on the track.

2,164,332
APPARATUS FOR APPLYING MIRROR SURFACES TO THE INTERIOR OF LAMP BULBS
Michel E. Macksoud, Gloucester, Mass., assignor to Birdseye Electric Company, a corporation of Delaware
Original application August 18, 1937, Serial No. 159,665. Divided and this application November 18, 1937, Serial No. 175,184
11 Claims. (Cl. 91—12.2)



1. An apparatus as described comprising a support adapted to receive the neck of a glass vessel and form an air-tight seal therewith, means extending through the support for withdrawing the air from the vessel, a crucible within the vessel, and a heating coil surrounding the crucible and supporting it.

2,164,333
HOPPER AND SEED DISTRIBUTING MECHANISM FOR SEED PLANTERS
Robert Mann, Memphis, Tenn.
Application March 15, 1937, Serial No. 130,910
20 Claims. (Cl. 221—141)



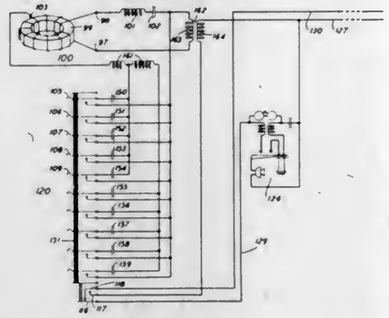
1. A seed distributing mechanism, including a pair of superposed races, having each a plurality of holes therethrough arranged along conforming circles in groups, said groups of one race being complementary to those of the other race but arranged in said races in dissimilar relative positions, and means for registering any desired group of one said race with a complementary group of the other said race and securing them in such position.

20. A seed distributing mechanism, including a pair of superimposed members having each a plurality of holes therethrough arranged along a plurality of pairs of conforming circles in complementary groups, said groups of one circle of each conforming pair being arranged in dissimilar relative positions to those of the other circle of said pair, one member being rotatable to a plurality of positions relative to the other to effect registration of different groups of holes in either of said circles with holes of the other circle of the pair, means to indicate each of said plurality of positions, means to positively determine each of said positions and to secure the members in said positions.

2,164,334
PRODUCTION OF MOTOR FUEL
Ernest M. Marks, Lansdowne, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application September 8, 1937, Serial No. 162,873
3 Claims. (Cl. 196—52)

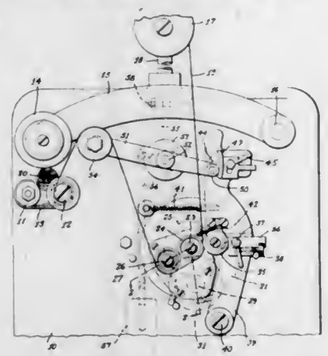
1. The method of producing gasoline of improved antiknock value, which comprises chlorinating petroleum naphtha having a relatively low antiknock value to produce chlorinated naphtha containing from about 5% to 20% by weight of chlorine, heating the chlorinated naphtha to a temperature of the order of from about 400° F. to about 1000° F., under a substantial superatmospheric pressure, then heating it under a pressure not substantially in excess of atmospheric, to a temperature of the order of from about 400° F. to about 1000° F., in the presence of a dechlorinating catalyst to effect substantial dechlorination of said naphtha, and separating from the dechlorinated products a gasoline fraction substantially free of chlorine.

2,164,335
TELEPHONE SYSTEM
Robert C. Mathes, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 13, 1938, Serial No. 201,756
6 Claims. (Cl. 179—16)



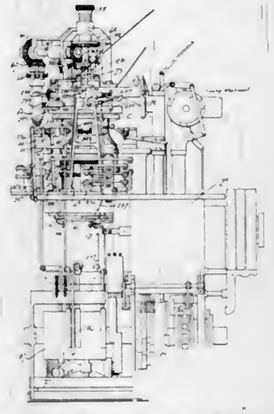
1. The combination in a signaling system of a line having a station thereon, a source of alternating current of a given frequency at a central office, means for connecting said source to said line to supply current thereto, a harmonic generator at said station responsive to current from said source to generate harmonics of the base frequency in said line, means at the central office selectively responsive to the harmonics generated at said station, and means at said station for selecting the generated harmonics for transmission to the central office.

2,164,336
TENSION MECHANISM FOR WINDING MACHINES
Vernon H. Meyer, Beverly, Mass., assignor to Sibley-Pym Corporation, Lynn, Mass., a corporation of Massachusetts
Application July 8, 1936, Serial No. 89,587
12 Claims. (Cl. 242—3)



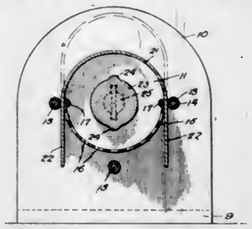
1. In a golf ball winding machine having core-rotating mechanism and a thread supply, tension mechanism including a thread-driven roll, a thread-elongating roll geared thereto, a pressure roll for pressing the thread against said driven roll, and a tension measuring lever responsive to the tension of the thread and arranged to control by its movement the position of the said pressure roll.

2,164,337
KNITTING MACHINE AND METHOD OF PRODUCING STOCKINGS THEREON
Harry McAdams, Reading, Pa., assignor to Nolde and Horst Company, Reading, Pa., a corporation
Application December 1, 1934, Serial No. 755,621
43 Claims. (Cl. 66—24)



1. The process of continuously knitting a stocking which consists in knitting upon two sets of needles a rib upper portion with a welt marginal top, transferring certain stitches upon the needles of one set to the needles of the other set and knitting the stocking leg, foot, heel and toe, knitting a binder yarn at the ring of the toe, continuing the knitting of a tensioning evening portion, holding the stocking and tension evening portion under lengthwise tension in order to place a uniform tension on the stitch loops hung on the needles at and during the commencement of the knitting of the next stocking, and then repeating the knitting in the above sequence of steps to produce another stocking.

2,164,338
DECORTICATOR
Homer T. McGill, Stuttgart, Ark.
Application July 27, 1935, Serial No. 33,573
6 Claims. (Cl. 83—30)



2. In a device for removing the outer layers from particles of granular material, the combination of a rotary smooth surfaced agitator having low, smooth projections thereon, and a housing completely enclosing the agitator, the said housing being spaced from the agitator a distance much greater than the height of the projections on the agitator and completely enclosing a circulating chamber for the reception of a batch of the material to be treated, and said housing being collapsible to an extent suffi-

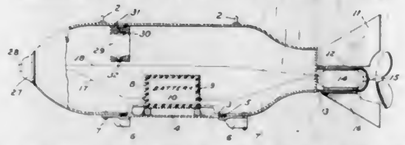
cient to compensate for the material removed from the particles and to permit the maintenance of a substantially constant pressure in the batch.

2,164,339
MEANS FOR MEASURING TIP CLEARANCES OF STEAM TURBINES
Albert T. Morgan, Vallejo, Calif.
Application March 8, 1938, Serial No. 194,712
1 Claim. (Cl. 33—169)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



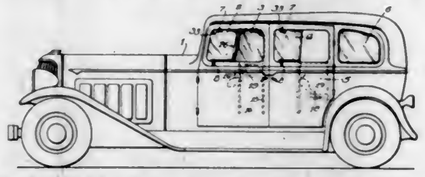
A wax print thickness measuring device comprising a tube means, an abutment block on said tube means and a hardened pointed rod concentric within said tube means adapted to penetrate the wax print, indicator means for revealing the amount of movement of said rod relative to said tube means, said indicator means comprising an indicator dial secured on said rod, an indicator plunger depending from said dial, and means for adjusting said plunger comprising an indicator plunger extension on said plunger adapted to be extended to contact with said block at zero position.

2,164,340
TARGET
Clyde H. Morgan, Lakewood, Ohio, and Arthur O. Blumburg, Washington, D. C.
Application February 4, 1938, Serial No. 188,685
3 Claims. (Cl. 273—105.2)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



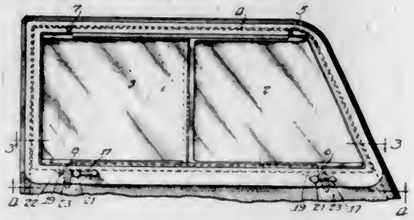
1. A target adapted to be launched on water comprising a floatable casing having an opening, a cover for the opening, means for clamping the cover in place and serving as stabilizers when submerged, a battery carried by the cover and disposed within the casing, an outboard electric motor mounted at the rear of the casing, a propeller driven by the motor, lead wires connecting the battery and the motor for establishing an electric circuit, a switch mounted in the nose of the casing and including a movable contact adapted to be driven inwardly on impact with the water, and a rudder for the casing.

2,164,341
WINDOW FOR VEHICLES
Willard L. Morrison, Chicago, Ill.
Application December 5, 1932, Serial No. 645,687
2 Claims. (Cl. 296—44)



1. A window for vehicles comprising a sliding section, means for sliding the sliding section downwardly, said means comprising a controlling member connected with the sliding section shorter than the bottom edge of the window and having elongated guiding parts thereon spaced apart but rigidly connected together, guides below the window opening into which said elongated guiding parts are received one guide and guiding member being intermediate the two edges of the window, a slot in said controlling member, an arm having a pin working in said slot, said arm pivoted to a fixed part, and means for rocking said arm about its pivot to raise and lower said section.

2,164,342
WINDOW CONSTRUCTION FOR AUTOMOBILES
Willard L. Morrison, Chicago, Ill.
Application June 30, 1933, Serial No. 678,400
6 Claims. (Cl. 296—44)



6. A window construction for automobiles comprising a glass section, a pivot connected with said glass section between its ends, operating mechanism connected with said pivot for moving said pivot to move the window, means for limiting the movement of the operating mechanism connected with said pivot so as to prevent strains being transmitted through the glass to cause injury to such glass, which consists in transferring the force applied to the operating mechanism from the pivot to a fixed part on the automobile.

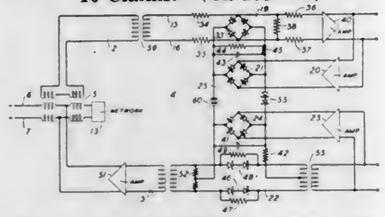
2,164,343
STRAIGHTENING MECHANISM
George E. Nighthart, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 21, 1937, Serial No. 121,483
13 Claims. (Cl. 153—35)



5. In a machine for straightening bars and shapes, a main frame, means for gripping the ends of material to be straightened adapted for movement relative to each other along said frame to stretch said material, means for effecting relative rotation of said gripping means to subject said material to torsional shearing stresses, and gripping means mounted on said frame intermediate said end gripping means and adapted to be fixed at a pre-selected position along said frame to limit said torsional shearing stresses to a portion of the length of said material.

12. In a machine for straightening bars and shapes, a main frame, means for gripping the ends of the material to be straightened adapted for rotation relative to each other to subject said material to torsional shearing stress, means to anchor one of said first-mentioned means selectively at different spaced apart points along the frame to accommodate varying lengths of material, and means actuated by said anchoring means adapted for cooperation with said frame to prevent tilting of said anchored gripping means during the straightening operation.

2,164,344
SIGNAL TRANSMISSION SYSTEM
Andrew C. Norwine, Passaic, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 28, 1938, Serial No. 204,763
10 Claims. (Cl. 178—44)

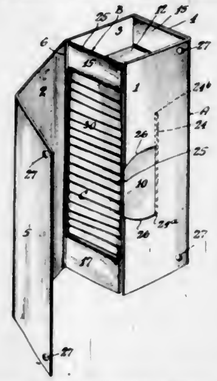


1. In a signal transmission system having a four-wire section with transmitting and receiving channels connected to a two-wire section, two variolossers respectively located in the transmitting and receiving channels to effect compression and expansion of signals, an interlock circuit between said variolossers, control means connecting said interlock circuit to said channels for compressing transmitted signals and expanding received signals, and means for connecting said control means to said interlocked circuit in a manner to prevent simultaneous control of the two variolossers from the two channels.

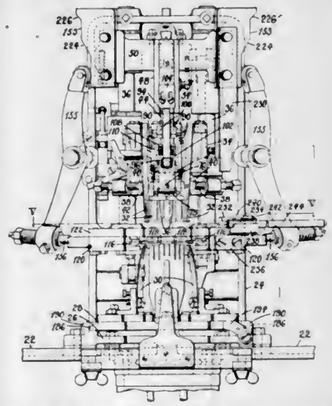
2,164,345
WITHDRAWN

2,164,346
CARTON
William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application June 24, 1936, Serial No. 86,917
13 Claims. (Cl. 229—6)

1. A carton for a radio tube and the like including, an outer tubular member, an inner tube-supporting member telescoping within said outer member, said outer member and inner supporting member having a cooperating slit and tab means associated therewith permitting limited telescoping movement only of said inner member within the outer member, said cooperating means being so arranged as to be inaccessible from outside the container, said slit being of limited predetermined length and wholly surrounded by the material from which the member with which the slit is associated, is made.



2,164,347
SHOE MACHINE
Charles A. Robinson, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 9, 1937, Serial No. 152,765
33 Claims. (Cl. 12—7)

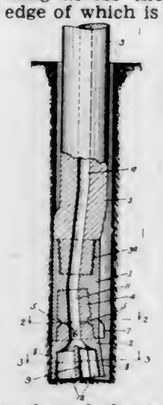


1. In a machine for use in the manufacture of pre-welted shoes, the combination with upper-supporting and positioning members constructed and arranged to engage, respectively, the interior of the welted margin of a pre-welted upper and the exterior of the upper within the welt crease, and plates constructed and arranged to engage the sole-attaching face of the welt and to bend the welted margin over an insole on a last bottom, of a holddown constructed and arranged to engage the margin of a sole on a last in the upper.

2,164,348
DRILLING DEVICE
Warren A. Ross, Haverhill, Mass., assignor to Donald M. Carter, Chicago, Ill.
Application February 24, 1936, Serial No. 65,225
10 Claims. (Cl. 255—71)

1. A well drilling device comprising a hollow cup shaped cutter having an outer wall, the free

edge of which forms a cutting edge for cutting the material at the bottom of the hole, a cross member extending across the cup shaped cutter, the lower edge of which is substantially on a



level with the edge of the hollow cup shaped cutter at the point where it meets such edge and which forms an additional cutting edge.

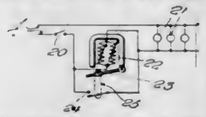
2,164,349

CIRCUIT CONTROL AND CURRENT CONTROL SYSTEM

Albert B. Rypinski, Laurelton, Long Island, N. Y.

Application November 24, 1933, Serial No. 699,617

9 Claims. (Cl. 177—346)



1. In a control system, an electromagnetic device comprising a pair of windings magnetically coupled in opposition and connected in parallel one with respect to the other, a movable core controllable by the resultant magnetism of said windings, a contactor having a normal position but actuated by said movable core to a second position, a power source and a load in series with said contactor in normal position and said windings, the impedance of said windings varying disproportionately and substantially with temperature for varying the resultant magnetism thereof, said change in impedance of said windings constituting means for altering the current supplied to said load, said changes in magnetism constituting means to move said movable core and to operate said contactor.

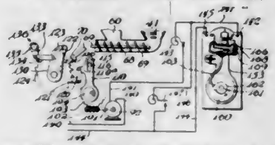
2,164,350

AUTOMATIC STOKER

Arthur V. Sampsel, Lafayette, Ind., assignor to Sears, Roebuck & Company, Chicago, Ill., a corporation of Delaware

Application March 30, 1931, Serial No. 526,502

4 Claims. (Cl. 236—46)



1. In combination, a furnace, a mechanical stoker, a single control circuit controlling the operation of the stoker, a furnace thermostat and a room thermostat in series with the control circuit, and a time switch connected in multiple solely with the room thermostat.

2,164,351

PROCESSING OF MILK TO BE USED FOR BEVERAGES AND THE PRODUCT THEREOF

Herbert Stanley Samson, Winnipeg, Manitoba, Canada, assignor of two-fifths to John A. Dienner, Evanston, Ill.

No Drawing. Application August 19, 1937, Serial No. 159,928

9 Claims. (Cl. 99—55)

1. Method of raising the foaming temperature of milk to approximately 40° F. which comprises homogenizing the milk and dissolving in the milk from 1% to approximately 5% milk powder.

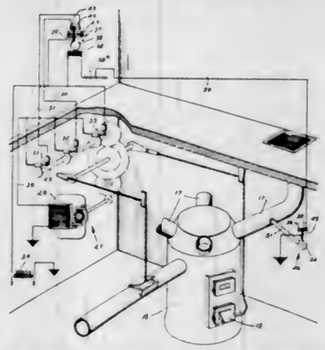
2,164,352

CONTROL SYSTEM

Herbert L. Sargent, North Danville, N. H.

Application November 10, 1934, Serial No. 752,495

29 Claims. (Cl. 236—9)



2. In a heating system having a heating mechanism for transferring heat to a space to be heated, the combination of two independent thermostatic switches one responsive to temperature changes in said space, the other being arranged to detect rises and falls in the temperature of said mechanism, an electric heater controlled by the latter thermostat and operating in response to the detection of the initial temperature rise to thereafter actuate said first mentioned switch independently of the prevailing space temperature, and a device responsive to actuation of the first mentioned switch by said electric heater to interrupt the supply of heat to said mechanism.

2,164,353

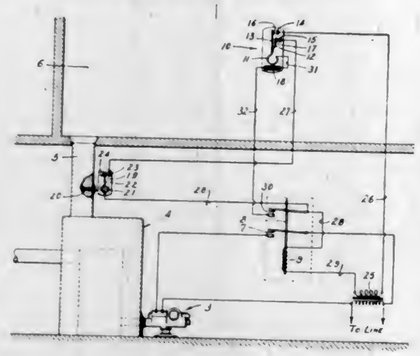
THERMOSTATIC CONTROL SYSTEM

Herbert L. Sargent, North Danville, N. H.

Application December 14, 1935, Serial No. 54,394

7 Claims. (Cl. 236—9)

5. A control for heating systems having, in combination, a regulating device controlling the delivery of heat to a space to be heated, an electrically operated mechanism for controlling said device including a winding, a thermostat responsive to deviations in the space temperature from a value desired to be maintained, a circuit controlled by said thermostat and governing the energization of said winding, an electrically energizable element adapted to be interposed in the energizing circuit as an incident to completion thereof and operating on said thermostat when energized to cause movement of said device to heat-decreasing position irrespective of the



thermostat temperature, and an independent thermostatic switch associated with the heating apparatus of said system so as to respond to changes in the rate of heat delivery to said space adjacent the point of such delivery and controlling a short-circuit around said element.

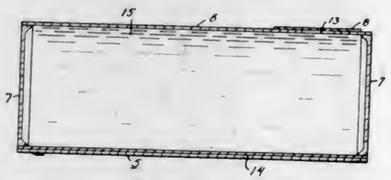
2,164,354

CONTAINER

Harold D. Schrier, Kalamazoo, Mich.

Application September 8, 1936, Serial No. 99,746

8 Claims. (Cl. 229—3.5)



5. A container comprising a tubular container body having open ends, a coating film of cellulose covering the inner surfaces of said container body, container end members of cellulose closing the open ends of said container body, the cellulose of said end members being integrally united with the cellulose of said coating film on said container body.

2,164,355

ESTERS OF 1,4-DIOXANEDIOL-2,3 AND 1,4-DIOXANEOL-2-CHLORO-3

Harold R. Slagh, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application August 28, 1937, Serial No. 161,468

7 Claims. (Cl. 260—338)

1. The process which comprises the step of heating 2,3-dichlorodioxane-1,4 with a monocarboxylic acid to a temperature and under such conditions that hydrogen chloride gas is evolved from the reaction mixture, but below the decomposition temperature of the reaction mixture to produce esters of 1,4-dioxanediol-2,3 and 1,4-dioxaneol-2-chloro-3.

2,164,356

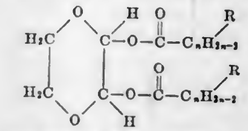
ESTERS OF 1,4-DIOXANEDIOL-2,3

Harold R. Slagh, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application August 28, 1937, Serial No. 161,470

7 Claims. (Cl. 260—338)

1. Di-esters of 1,4-dioxanediol-2,3 having the formula



wherein n represents an integer greater than 1 and each R represents a member of the class consisting of hydrogen and the benzenoid aryl radicals.

2,164,357

ESTERS OF HETEROCYCLIC MONOCARBOXYLIC ACIDS

Harold R. Slagh, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 15, 1938, Serial No. 235,243

3 Claims. (Cl. 260—338)

1. A compound selected from the group consisting of the di-furoate of 1,4-dioxanediol-2,3 and the di-(coumarin-carboxylate) of 1,4-dioxanediol-2,3.

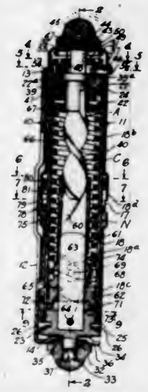
2,164,358

CLOSURE CONTROLLING DEVICE

Benjamin F. Stannard, Los Angeles, Calif., assignor of forty per cent to A. B. Leavelle, Los Angeles, Calif.

Application January 22, 1937, Serial No. 121,752

20 Claims. (Cl. 16—54)



1. A closure hinge comprising a pair of hingedly connected members, one having means defining a fluid chamber; a coil spring in the chamber; means in the chamber operatively connected to said spring and co-acting with said members to load the spring in response to relative hinging movement of the members in one direction; means co-acting with fluid in said chamber to check the reverse hinging movement of said members under the urging action of the spring, yet render the movement of the members in said

one direction comparatively unrestricted by the fluid; and means including an element rotatable about the hinging axis of said members by which the initial loading of the spring can be varied to compensate for closures of different weights.

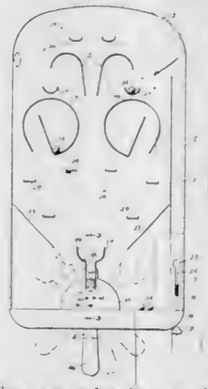
2,164,359
ADHESIVE TAPE
Clauss Burkart Strauch, New York, N. Y., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application May 18, 1936, Serial No. 80,409
16 Claims. (Cl. 91—68)

1. As a new article of manufacture, an adhesive tape or the like, comprising in combination a backing and an adhesive thereon including halogenated rubber plasticized by a tack-producing plasticizer which is compatible to said backing and is in proportion such that the adhesive is normally tacky, pressure-sensitive and cohesive.

2,164,360
WOUND DRESSING
Clauss Burkart Strauch, New York, N. Y., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application March 6, 1935, Serial No. 9,588. Renewed July 29, 1938
4 Claims. (Cl. 128—156)

1. A new article of commerce, a transparent wound dressing provided with a transparent non-drying adhesive comprising a combination of chlorinated rubber wth plasticizer.

2,164,361
AMUSEMENT APPARATUS
Arthur W. Swenson, Rockford, Ill.
Application April 16, 1937, Serial No. 137,219
20 Claims. (Cl. 273—121)

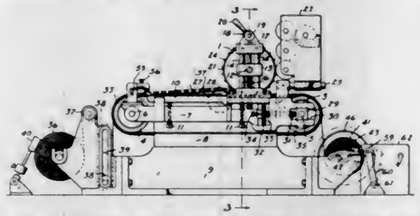


1. For use in games having an inclined playing surface, a mechanical kicker comprising, in combination, a support, a kicker lever pivoted on said support, a spring urging said lever in one direction, a latch pivoted on said support and engageable with said lever to hold the same in cocked position against the action of said spring, a member pivotally mounted on said support with one end disposed in advance of said kicker lever, and means connecting said member and said latch for releasing the latter to trip said lever upon movement of the member toward said lever.

2,164,362
FREEZING FOODS
Robert B. Taylor, near Knoxville, Tenn.
No Drawing. Application July 7, 1938, Serial No. 217,971
14 Claims. (Cl. 99—193)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

2. Process of freezing a fruit for preservation thereof, which comprises maintaining at a temperature of 0° to 10° F. an aqueous invert sugar solution, which has a freezing point not higher than 5° F., and low viscosities at 0° to 10° F., immersing the fruit in a body of said solution, circulating the solution in direct contact with the fruit at such a rate that the fruit is quickly frozen with the formation of only small crystals therein, removing the frozen fruit from the solution and separating substantially all of the solution from the fruit.

2,164,363
PRINTING PRESS
Gilbert C. Waters, Rochester, N. Y.
Application December 24, 1936, Serial No. 117,439
15 Claims. (Cl. 101—212)

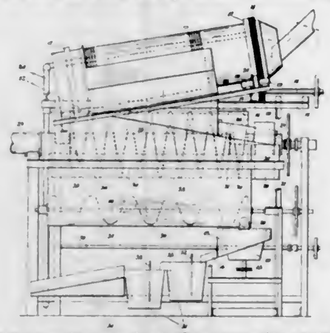


1. A printing press comprising an impression member and a printing member between which sheet material may be fed, means for driving said members in directions such that the surfaces thereof engaging the sheet material travel in the same direction and at speeds such that the opposed faces of said members in engagement with the sheet material travel at approximately the same speed, said driving means including a cylindrical driving pulley through which motion is transmitted to one of said members, and means for effecting minute increases or decreases in the effective diameter of said pulley to effect minute changes in the speed of the member driven by the pulley to equalize the speeds of the material-engaging surfaces of said members.

2,164,364
PLACER GOLD CONCENTRATOR AND AMALGAMATOR
Ernest Alfred Willner, Sr., Lincoln, Nebr.
Application March 21, 1936, Serial No. 70,068
1 Claim. (Cl. 209—234)

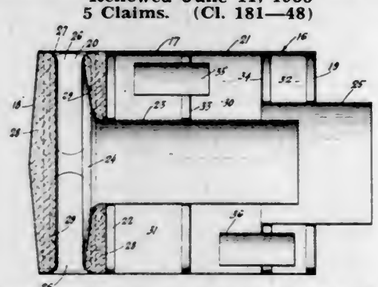
A placer gold concentrator comprising a drum having peripheral perforations and open ends, means for rotatably mounting said drum with its axis inclined, means for supplying ore to the higher end of the drum, means for spraying water against the ore in the drum whereby the ore and water travel down the inclined inner surface of the drum and the finer particles and water pass through the perforations while the larger particles pass out of the open lower end of the drum, a launder below said drum to collect the finer particles of ore and water passing through the perforations, a hopper, a conduit for carrying finer particles and water from the launder to the hopper, a hollow shaft rotatably mounted extending

over said hopper, said shaft having an opening therein adjacent the hopper and leading interiorly, a scoop mounted on the shaft adjacent the opening to dip into the hopper to transfer ore and water to the interior of the shaft, a cylindrical screen mounted around the shaft, a partition in the shaft located inside the screen, said shaft having an opening inside the screen adjacent the partition at the side nearer the said hopper allowing ore and water to pass out into the screen, a helical conveyor ribbon attached to said shaft and spaced therefrom except at the points of attachment, the outer edge of said ribbon lying close to the bottom of said cylindrical screen, said hollow shaft having a second opening therethrough located in the screen at a position remote from the



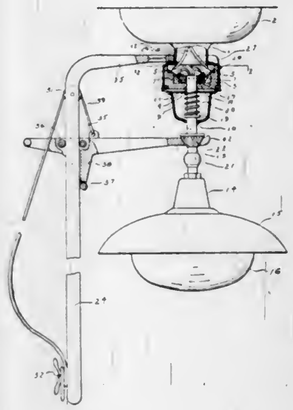
first said opening and at the opposite side of said partition, a scoop on the shaft adjacent the said second opening to transfer ore and water from the screen thereinto, and a hopper beneath said screen to receive fine particles and water passing therethrough, said drum removing coarse ore particles and permitting only the finer particles to reach said launder, said conveyor ribbon agitating the finer particles and water and advancing them along the screen whereby flour gold settles through the screen with the water and the lighter ore particles and entrained water are lifted into the hollow shaft and pass therethrough, said screen and conveyor ribbon being operated with a liquid level near the lower edge of the shaft whereby the ribbon operates below the liquid surface to agitate and advance the ore settling on the screen without advancing the mass of water overlying the ore.

2,164,365
COMPOUND RESONANCE UNIT
Ernest E. Wilson, Huntington Woods, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 30, 1933, Serial No. 654,296
Renewed June 11, 1936
5 Claims. (Cl. 181—48)



1. The combination, with a passage or other enclosure within which sound waves occur, of a side branch which includes a plurality of compartments which communicate with the enclosure independently of each other and intercommunicate independently of the enclosure and is so proportioned and dimensioned that it responds to and attenuates by resonance objectionable sound waves which occur within the enclosure.

2,164,366
FIXTURE CONNECTOR
Wesley Wilson, Chicago, Ill.
Application October 11, 1937, Serial No. 168,444
8 Claims. (Cl. 248—319)



4. A fixture construction comprising an elevated unit and a lighting unit detachably secured thereto, said elevated unit having readily engageable and disengageable electrical contacts, and an annular shoulder, said lighting unit having electrical contacts readily engageable and disengageable with respect to the elevated unit contacts in different positions of rotative adjustment and having a laterally movable latch member engageable and disengageable with respect to said annular shoulder in different positions of rotative adjustment, said latch member being provided with easily accessible tool engageable means for engaging a latch releasing tool.

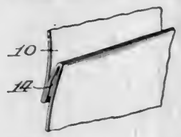
2,164,367
HIGH TEMPERATURE REACTION PRODUCTS
Herbert A. Winkelmann and Eugene W. Moffett, Chicago, and William C. Calvert, Oak Park, Ill., assignors to Marbon Corporation, a corporation of Delaware
No Drawing. Application May 27, 1936, Serial No. 82,158
8 Claims. (Cl. 260—111)

1. In the process of producing solvent, oil and water resistant rubber hydrochloride composition from solid rubber and gaseous hydrogen chloride, the step of maintaining the temperature of the mass throughout the major part of reaction at above 90° C. and below the temperature at which substantial decomposition of the rubber hydrochloride takes place.

2,164,368
GASKET COMPOSITION
Herbert A. Winkelmann, Chicago, Ill., assignor to Marbon Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application June 13, 1936, Serial No. 85,052
4 Claims. (Cl. 106—23)

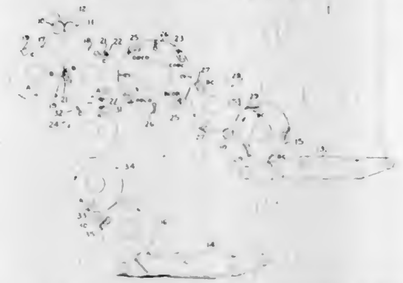
1. A gasket, comprising rubber hydrochloride, asbestos and a basic heat stabilizer for said rubber hydrochloride.

2,164,369
BIB
Harold E. Woolever, Los Angeles, Calif., assignor of one-half to Pioneer Wrapper and Printing Co., Los Angeles, Calif., a corporation of California
Application May 19, 1937, Serial No. 143,499
1 Claim. (Cl. 2—49)



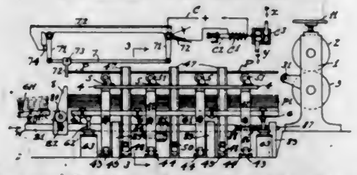
As a new article of manufacture, a bib formed from a single piece of paper and comprising a body portion and neck encircling members projecting upwardly from the upper end of said body portion, a transversely disposed portion of the paper forming said body portion being folded upwardly on the front thereof to provide a transversely disposed pocket for the reception of crumbs, food particles and the like, and means for securing the lower portions only of the ends of said pocket to said body so that the upper edge of said pocket is spaced apart from the body of said bib when the same is in use.

2,164,370
FOLDER FOR PRINTING MACHINES
Adolph M. Zuckerman, New York, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y, a corporation of New York
Application September 10, 1937, Serial No. 163,170
8 Claims. (Cl. 270—6)



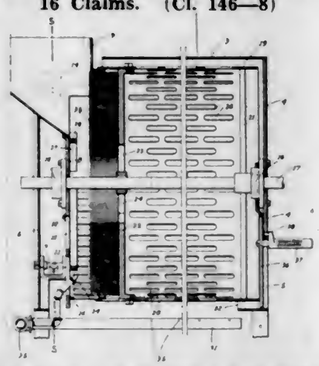
1. In a folder for a web printing machine means to sever the web into sheets, a collecting cylinder to which the sheets are transferred, folding and delivering mechanism for operating with the collecting cylinder, and a second cylinder cooperating with said folding and delivering mechanism and being adapted to receive a portion of the sheets cut by the cutting means; said second cylinder being positioned to engage the sheets before they reach the collecting cylinder.

2,164,371
PILING MECHANISM FOR PLATE MILLS
Michael J. Ajello, Melvindale, Mich.
Application November 5, 1938, Serial No. 238,953
5 Claims. (Cl. 271—63)



1. In a mechanism of the character described, the combination, with a pair of rolls, of a pair of horizontally movable tables disposed in equally spaced relation with the vertical center line of said rolls, said tables having a plurality of lateral gaps in their opposed edges; a plurality of castors upon said tables adapted to receive a plate issuing from said rolls; a plurality of pairs of vertical guide members projecting upwardly through said gaps; means for simultaneously adjusting the distance between the respective pairs of guide members to correspond to the width of the plate to be rolled; and means actuated by said issuing plate for moving said tables apart to discharge the same and for returning them to normal position subsequent to such discharge.

2,164,372
NUT HULLING AND WASHING UNIT
W. Charles Anderson, Linden, Calif.
Application December 13, 1937, Serial No. 179,514
16 Claims. (Cl. 146—8)



1. A nut huller comprising a substantially vertical hulling plate, a rotary hulling brush parallel to and spaced from the plate, said brush having a central opening, means forming a nut retaining chamber between the brush and plate, means to feed nuts into said chamber, and means on the plate within the chamber to engage and gradually divert the nuts in the chamber radially inward and toward the brush opening as the nuts are moved about the chamber with the rotation of the brush.

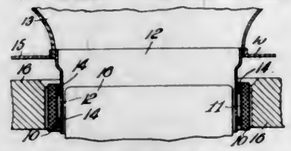
2,164,373
GARDEN TOOL
Harry Ayliffe, London, England
Application April 11, 1938, Serial No. 201,383
In Great Britain February 15, 1937
1 Claim. (Cl. 55—65)

A weeder and trowel comprising a substantially triangular plate of metal of channel section, a pair of narrowly spaced pointed limbs forming one extremity of the tool and also the junction of two converging edges of the substantially triangular plate, a handle extending from



the substantially triangular plate and comprising the other end of the tool, one side of the plate having a substantially wide V shaped edge constituted by two sides of the triangle.

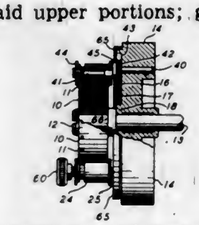
2,164,374
SOUND REPRODUCING DEVICE
Alfred Cecil Barker, Hurstpierpoint, England
Application November 15, 1935, Serial No. 49,945
In Great Britain December 5, 1934
9 Claims. (Cl. 179—115.5)



1. An actuating element for the diaphragm of an electro-dynamic sound reproducer, comprising two movable diaphragm actuating conductors disposed in inductive relation with each other in a magnetic air gap, one of said conductors forming a closed circuit being coupled directly to said diaphragm and having a resilient connection with the other conductor, whereby said other conductor will be compliantly connected through the first conductor to said diaphragm so that when said other conductor is energized the movable conductor which is directly connected to the diaphragm will drive the diaphragm in response to currents generated therein by induction from the other movable conductor.

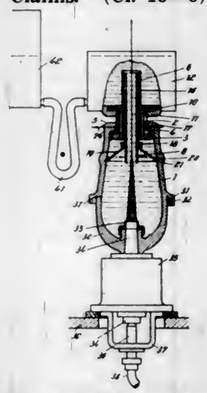
2,164,375
FILM GUIDING MEANS
Eric M. Berndt, New York, N. Y., assignor to The Berndt-Maurer Corp., New York, N. Y., a corporation of New York
Application October 27, 1938, Serial No. 237,296
19 Claims. (Cl. 271—2.3)

1. In film-handling apparatus a base; a shaft rotatably supported in said base; a sprocket locked to said shaft; a plurality of shafts rotatably mounted in said base and adjacent to said sprocket; each of said plurality of shafts having a lower portion and an upper portion, said upper portion being eccentric with respect to the axis of said lower portion; film guiding members carried by said upper portions; gears mounted on



said lower portions; and means for transmitting torque between said gears.

2,164,376
DEVICE FOR SIMULTANEOUSLY SPINNING AND TWISTING ARTIFICIAL SILK THREADS
Karl Berndt, Tilsit-on-the-Memel, Germany
Application May 20, 1937, Serial No. 143,672
In Germany May 23, 1936
7 Claims. (Cl. 18—8)

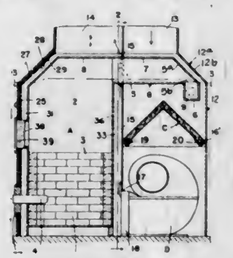


1. A device for simultaneously spinning and twisting threads from viscous material, comprising a hollow spindle for supplying the viscous material, said spindle having a multiple orifice spinning head at its outlet end, means for rotating said spindle, a pot-like rotary container for coagulating solution coaxially disposed on said spindle so as to surround said spinning head and to rotate therewith, a stationary container for supplying coagulating solution to said rotary container, said stationary container being coaxially disposed above said rotary container, a sleeve connecting said stationary and said rotary container so as to allow the formation of a continuous solution column which rotates at its bottom with said rotary container and remains nonrotative at its top within said stationary container, a tubular body arranged centrally in said sleeve, said body forming a passage for the thread and leaving between said body and said sleeve an interstice forming a supply duct for coagulating solution, and baffles disposed in said interstice for preventing the solution passing through said interstice from revolving.

2,164,377
HEATER
Harry A. Bertossa, Detroit, Mich., assignor of one-half to James Rodney Weeks, Birmingham, Mich.
Application March 1, 1937, Serial No. 128,484
3 Claims. (Cl. 126—99)

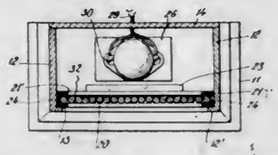
1. In a hot air furnace, a casing having a dome portion provided with inwardly and upwardly

inclined front and rear walls; and provided at the inner upper edges of said walls with openings for air, a firebox and combustion chamber in superposed relation in said casing at the front thereof and spaced therefrom, said combustion chamber having a dome portion extending within the dome portion of said casing and having a front wall spaced from and inclined conformably with the inclined front wall of said casing dome portion, said combustion chamber dome portion



having a top wall substantially in vertical alignment with one of said air openings; substantially horizontal rearwardly extending tubes projecting from said combustion chamber dome portion at the top thereof substantially in the horizontal plane of said inclined walls of said casing dome portion; and a substantially horizontal header within said casing at the rear thereof beneath said casing dome portion, said tubes having end portions inclined conformably to the inclined rear wall of said casing dome portion, and opening downwardly into said header.

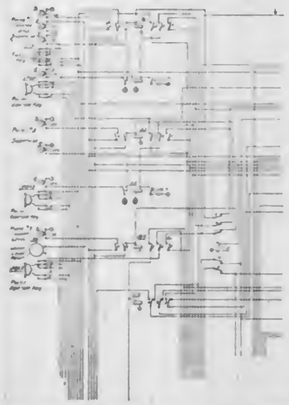
2,164,378
LIGHTING DEVICE
Jay W. Berwick, Woodcliff, N. J., assignor to Raylite Trading Company, a corporation of New York
Application March 24, 1937, Serial No. 132,703
7 Claims. (Cl. 240—10)



1. An illuminating device comprising a source of light, a solid rod disposed in front of the light source, said rod being translucent to permit the passage of light therethrough from the light source, and light diffusing means interposed between the rod and light source for breaking up the light from said source into bands of varying light intensity extending at substantially right angles to the length of said rod.

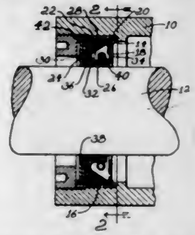
2,164,379
SUPERVISORY CONTROL SYSTEM
Hans P. Boswau, Galion, Ohio
Application June 7, 1934, Serial No. 729,456
19 Claims. (Cl. 177—353)

18. A supervisory control system comprising, in combination, a first station, a second station, a single signalling circuit connecting the stations, a plurality of control points at the first station, a plurality of controllable points at the second station each individual to a control point at the first station, a point selection relay individual to each point at each station, and control means at each station including positive and negative transmitting relays responsive to an operation at either station for transmitting to the other station a single selection impulse of positive or negative polarity, short or long duration or a direct-



current impulse of one polarity followed immediately by a direct-current impulse of opposite polarity, and receiver means at each station selectively responsive to said selection impulses to selectively operate at each station a predetermined pair of corresponding point selection relays individual to the impulse transmitted.

2,164,380
SEAL
Donald A. Boyd, Detroit, Mich.
Application February 11, 1938, Serial No. 189,944
2 Claims. (Cl. 288—1)



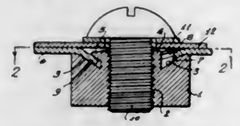
1. A self-contained seal for insertion as an assembled unit in a housing surrounding a shaft comprising an annular housing having a peripheral flange, spaced radially extending flanges at the edges of said peripheral flange, one of said radially extending flanges being integral with said peripheral flange and the other being positioned by a radially extending edge portion of said peripheral flange, an annular yieldable member between said flanges having a body portion of substantially triangular shape in cross-section and an integral axially extending portion for sealing engagement with the shaft, and an annular reinforcing member angular in cross section embedded in said triangular body portion, said reinforcing member having a radially extending wall and a peripheral wall of different diameters, said radially extending wall being in contact with one of said radially extending flanges and the free edge of said peripheral wall being in contact with the other of said radially extending flanges.

2,164,381
ELECTRICAL CONNECTOR
William T. Bradley, Philadelphia, Pa.
Application February 21, 1936, Serial No. 65,016
9 Claims. (Cl. 173—340)



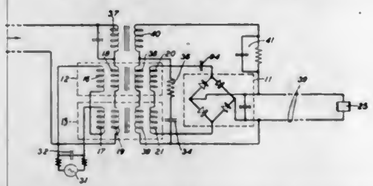
7. A wire connecting device arranged to electrically connect wires together that have an insulating covering thereon comprising a single unit body portion of metal and insulating material, a metal insert retained within and insulated from said body portion, a plurality of contact members projecting from said metal insert, said contact members arranged to engage said wires and electrically connect them together, and a plurality of wire retaining members arranged to securely hold said wires on said contact members.

2,164,382
NUT
James P. Burke, Knoxville, Tenn.
Application March 6, 1939, Serial No. 260,061
13 Claims. (Cl. 85—32)



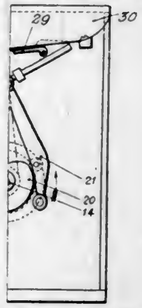
1. A nut having an endwise projecting stem and a concave seat surrounding said stem, said stem being insertable through an aperture in a sheet member, and means on said stem for crowding the portion of said member surrounding said aperture against said concave seat when said nut is rotated in said aperture.

2,164,383
MAGNETIC DEVICE
Everett T. Burton, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 29, 1934, Serial No. 759,647
7 Claims. (Cl. 179—171)



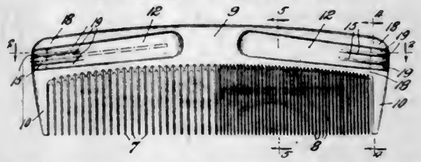
3. A magnetic device comprising a plurality of saturable cores, alternating current power supply windings wound on said saturable cores, a source of alternating current connected to said windings, the alternating current from which flowing through said windings is of sufficient magnitude to saturate each of said cores during a part of every half-cycle of said alternating current, an input circuit having turns wound about said cores, an output circuit having turns wound about said cores and demodulating apparatus connected to one of said circuits.

2,164,384
TOMATO AND FRUIT PEELING MACHINE
Vincenzo Carpentieri, Turin, Italy
Application September 16, 1936, Serial No. 101,027
In Italy September 20, 1935
6 Claims. (Cl. 146—48)



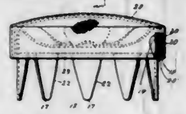
1. A machine for removing the skins of certain fruits and vegetables especially tomatoes, comprising an intermittently rotated drum, radially disposed individual skin removing devices arranged peripherally of the drum, each device comprising a rigid cylindrical casing an elastic sleeve disposed within the casing and attached at its opposite ends to the ends of the latter to form a jacket for receiving liquid under pressure, a central passage being formed by said sleeve to receive the fruit or vegetable at one end and to deliver the same skinned at the other end of the latter, means to feed the fruit or vegetable into the passage of the sleeve, fixed means in the receiving position of the sleeve to prevent ejection of the fruit or vegetable from the delivery end of the sleeve, means to flow liquid under pressure into the jacket after receiving the fruit or vegetable in order to cause the sleeve to close in over the outer end and against the sides of the fruit or vegetable, and means in one position of the drum after delivering the skinned fruit or vegetable to enter the passage in the sleeve to remove the skin therefrom.

2,164,385
COMB
Oswald B. Carson, Scarsdale, N. Y., assignor to American Hard Rubber Company, New York, N. Y., a corporation of New York
Application October 25, 1938, Serial No. 236,836
3 Claims. (Cl. 132—19)



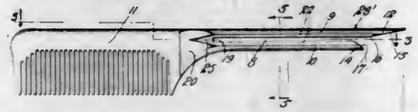
1. A comb comprising an elongated back of substantial width and thickness and a bank of teeth extending outwardly from one edge of the back, the opposite faces of each end of the back being longitudinally grooved to form a web adapted to be straddled and engaged by the prongs of a "bobby" pin, the two ends of the back at the outer ends of the grooves having each a bulb-like enlargement adapted to accommodate the loop portion of a "bobby" pin, said enlargement being thicker than the web so as to prevent accidental displacement of a "bobby" pin from the grooves in which it is positioned.

2,164,386
BUTTON
Harry Chalfin, New York, N. Y.
Application July 13, 1938, Serial No. 218,914
4 Claims. (Cl. 24—113)



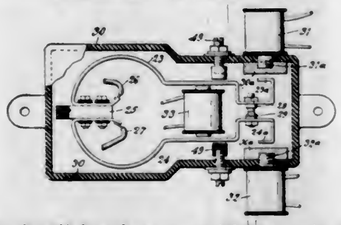
1. As a new article of manufacture, a button comprising an inner body member and a cover member for said body member, said inner body member having a concave surface portion, said concave surface portion having ridges and recesses, a flange depending from said concave surface portion, bendable prongs depending from said depending flange for piercing a material, said prongs falling within said recesses of said concave surface portion to firmly lock said button to said material.

2,164,387
HAIR CURLING DEVICE
Robert J. Crawford, Jersey City, N. J., assignor to American Hard Rubber Company, New York, N. Y., a corporation of New York
Application August 11, 1938, Serial No. 224,284
4 Claims. (Cl. 132—35)



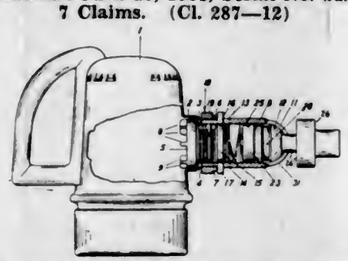
1. A hair curling device comprising an elongated, substantially cylindrical bodkin slotted longitudinally into two prongs, a handle at the inner closed end of the prongs, the outer free ends of the prongs being bevelled from the outer end of the slot outwardly to the ends of the prongs, one of said prongs being longer than the other, said bodkin being grooved adjacent the slot and on both sides thereof to provide a substantially flat longitudinal recess to receive a flat elongated curl holder, and the inner ends of the bodkin and the handle being grooved transversely to provide a finger-receiving recess.

2,164,388
CIRCUIT BREAKER
Charles Vance Dame, Lanark, Ill.
Application August 4, 1937, Serial No. 157,235
6 Claims. (Cl. 200—98)



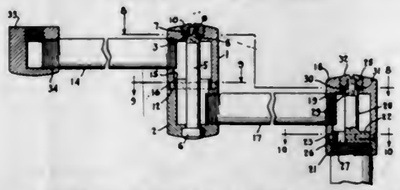
1. A circuit breaker comprising a pair of arms of conducting material each stationarily mounted at one end and connected in a circuit at said ends, the other portions of said arms being movable, mutually cooperable contacts carried by the movable portions of said arms for opening and closing said circuit, electromagnetic means arranged to act on said arms for simultaneously moving the same in opposite directions for effecting the quick breaking of said circuit, and electromagnetic means arranged to act on said arms in timed relation with respect to said other magnetic means in a direction tending to move said arms and contacts to circuit closing position.

2,164,389
COMBINED SOCKET COVER AND FLEXIBLE JOINT
Bert A. Dickerson, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a corporation of Illinois
Application June 10, 1938, Serial No. 212,908
7 Claims. (Cl. 287—12)



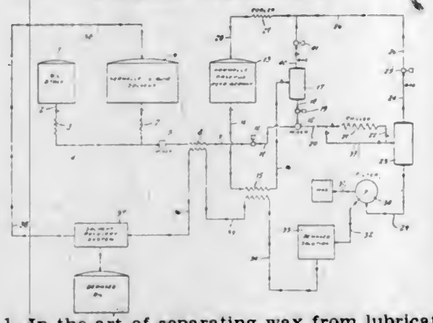
1. A combined socket cover and adjustable joint comprising a socket cover, a laterally extending lug thereon, bosses on the face of said lug at diametrically opposite points, a threaded bushing mounted in said lug, a sleeve mounted on said bushing, having slots in register with said bosses, a nut mounted on external threads on one end of said sleeve, a socket at the other end of said sleeve, a ball in said socket, a washer in said sleeve having a concave recess therein which fits said ball, a flat washer having diametrically opposite radially extending projections thereon which fit the slots in the threaded end of said sleeve and in which said projections slide, and a coil spring in said sleeve intermediate said washers, said nut abutting the projections on said washer, whereby the movement of said nut varies the tension of said spring.

2,164,390
JOINT FOR DENTAL BRACKETS
Bert A. Dickerson, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a corporation of Illinois
Application June 10, 1938, Serial No. 212,909
7 Claims. (Cl. 248—282)



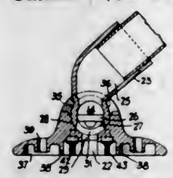
1. In an articulated bracket having a plurality of arms adapted to be swung to various positions, a central joint connecting the two arms, said joint comprising a cap for one arm, a fitting for the other, interengaging means on their abutting portions, detachable means to hold said portions in engagement, means to prevent said arms swinging through a complete circle, an end cap mounted on the arm secured to the fitting, said end cap comprising a cylindrical portion having a downwardly depending semi-cylindrical flange thereon, a plug which closes said cap, there being an annular groove on said plug which fits said flange, means in said groove to limit the amount of travel of said flange in said groove, means to hold said flange in said recess and a cap on the outer end of the arm fitted to the central cap.

2,164,391
PROCESS OF SEPARATING WAX FROM OILS
Eddie M. Dons and Dwight B. Mapes, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware
Application January 9, 1937, Serial No. 119,751
2 Claims. (Cl. 196—18)



1. In the art of separating wax from lubricating oil stocks, the method which comprises mixing the wax-containing oil with a normally liquid dewaxing solvent at a temperature high enough to dissolve the wax and oil in said dewaxing solvent, continuously introducing a cold stream of liquefied normally gaseous refrigerant into a stream of said solution to suddenly chill the solution and quickly precipitate wax therein, transmitting the mixture in the form of a continuous stream through an elongated passageway and at the same time gradually evaporating approximately all of the refrigerant in the flowing mixture to gradually continue the chilling and precipitation of wax, separating the refrigerant from the chilled mixture, and thereafter removing the wax from the chilled solution of oil and normally liquid dewaxing solvent.

2,164,392
SUCTION CLEANING APPARATUS
Philip B. Ellis, Ridley Park, Pa., assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application November 16, 1935, Serial No. 50,129
Renewed August 4, 1937
5 Claims. (Cl. 15—156)

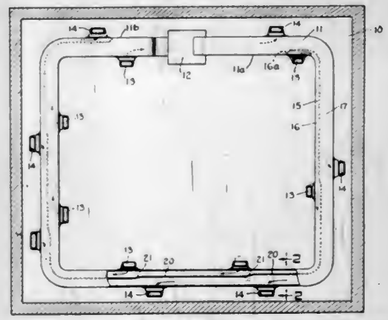


1. In suction cleaning apparatus, a body having a flat bottom surface for engaging the surface to be cleaned, said bottom surface being elongated, an outlet slot located centrally of the bottom surface, extending in the direction of the major axis thereof and terminating short of the ends of said bottom surface, a multiplicity of air nozzle openings spaced from each other and extending downwardly through the body, said openings being located between each side boundary of the bottom surface and the slot and on opposite sides of the transverse centerline of the bottom surface, and separate passageways extending between the lower ends of the respective openings and the slot, said passageways extending from their respective openings in directions inclined with respect to the slot in the direction of the transverse centerline of the bottom surface.

2,164,393
LUBRICATING OIL
Elliott Alfred Evans, London, England, assignor to C. C. Wakefield & Company Limited, London, England, a British company
No Drawing. Application April 14, 1936, Serial No. 74,388. In Great Britain April 15, 1935
12 Claims. (Cl. 87—9)

1. An extreme-pressure lubricant comprising a lubricant having dispersed therein between 0.1% and 2% of a thio-ether comprising two aromatic radicals at least one of which aromatic radicals contain an ester substituent.

2,164,394
COMPENSATING-DUCT SYSTEM
Herbert Alfred Faber, Cincinnati, Ohio
Application June 23, 1937, Serial No. 149,808
10 Claims. (Cl. 98—33)

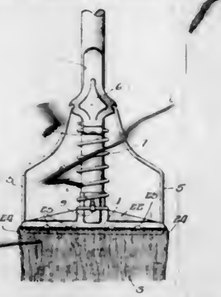


7. In a conduit providing for differential volumetric flow therethrough, independent flow passages defined within the confines of said conduit, said flow passages extending substantially side-by-side lengthwise of the conduit and being gradated along their lengths to compensate for known changes of volume of material flowing therethrough, the gradations of one flow passage coincidentally providing similar but opposite gradations in another of the flow passages, and imperforate wall means separating said flow passages.

2,164,395
MOP HOLDER
James H. Follen, Chicago, Ill., assignor, by mesne assignments, to Midway Chemical Co., Chicago, Ill., a corporation of New Jersey
Application May 28, 1934, Serial No. 727,854
2 Claims. (Cl. 15—152)

1. In a mop holder, a sheet metal cross head having an upwardly facing socket portion adapted to receive a handle and having an integral foot portion extending transversely with respect to the socket portion, said foot portion having a downwardly facing groove adapted to receive a

mop swab, and means adapted to coop... the handle and the cross head to secure ... in said groove, said foot portion having ... wardly facing groove and said upwardly fac... groove having spaced openings in the bott...



thereof for draining water through said cross head, said openings extending into the wall of the downwardly facing groove to engage the mop swab and additionally confining it in position in the downwardly facing groove.

2,164,396

DRIVING AND CONTROL MECHANISM FOR TURRETS

Benjamin Norton Foster, Keene, N. H., and Frank L. Fisher, Wauwatosa, Wis.; said Fisher assignor to Allen-Bradley Company, Milwaukee, Wis., a corporation of Wisconsin

Application March 11, 1938, Serial No. 195,402
14 Claims. (Cl. 29—50)



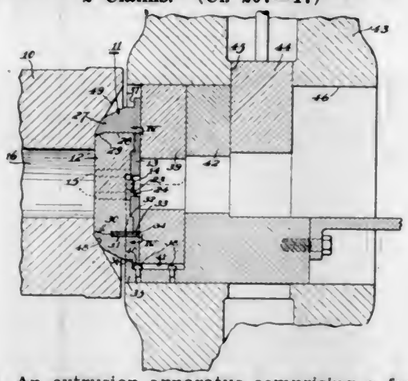
1. In a device of the character desc... a member which is to be advanced to a defini... determined position and there held for a ... of time; a reversible electric motor; a ... continuously operative driving connectio... tween the motor and said member through w... the motor operating in one direction advanc... said member forwardly beyond said definite posi-tion and operating in the reverse direction im-parts retrograde movement to said member; sto... means for arresting retrograde movement of sa... member, said stop means being positioned to ac-curately define said predetermined position; and means for effecting a reduction in the torque of the electric motor upon retrograde movement of said member so that the electric motor holds said member against the stop means with a re-duced torque.

2,164,397

EXTRUSION

John E. Ganoe, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania

Application December 3, 1935, Serial No. 52,658
2 Claims. (Cl. 207—17)



1. An extrusion apparatus comprising a front mandrel-carrying die and a back exterior con-figuration-controlling die, an annulus surround-ing said dies and embracing the same, and a key connection between said dies and annulus, a tool carrier for receiving said assembled dies and an-nulus, and means associated with said tool car-rier and annulus for maintaining the annulus in fixed position therein, said last-mentioned means and key connection cooperating to insure fixed alignment of the horizontal and vertical axes of the dies.

2,164,398

FLEXIBLE MOP

John Glover, Chicago, Ill., assignor, by mesne assignments, to Midway Chemical Co., Jersey City, N. J., a corporation of New Jersey

Application April 19, 1937, Serial No. 137,735
4 Claims. (Cl. 15—147)



1. A frame for a collapsible mop, comprising a single piece of spring metal bent to form a pair of parallel, juxtaposed legs and a pair of spaced apart arms lying in a common plane with said legs, a supporting member pivoted to said legs for movement about an axis parallel there-to and a stick-receiving socket pivoted to said supporting member for movement about an axis ...ular to the axis of movement of said ...ber whereby said stick may be moved in any ...red angular direction relative to the frame.

2,164,399

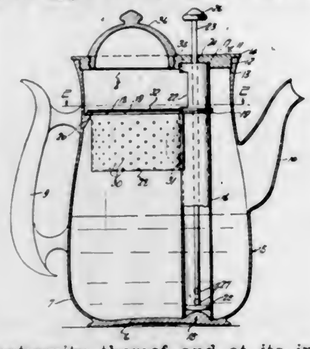
COFFEE LEACHER

Elmer E. Granger, Reno, Nev.

Application April 15, 1938, Serial No. 202,145
2 Claims. (Cl. 53—3)

1. ...bination with a coffee pot having an open ... at its rear side and a spout at its fro... locating boss formed upon the inner face of the bottom of the pot adjacent

the spout and in alignment with the spout and handle, a cover for the pot having upon its inner face a locating pocket adapted for vertical align-ment with the locating boss of the bottom when the cover is closed upon the pot the pocket hav-ing an axial bore extended out through the cover, a pump tube dimensioned and adapted to seat within the pot between the cover and the bottom thereof with its lower end over the locating boss of the bottom and its upper end within the pocket of the cover when the latter is closed, the tube being apertured at its lower end at points spaced upward from its lower extremity, and being cut away at its upper end in spaced relation to the



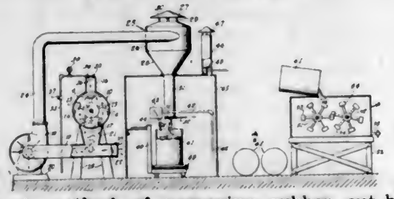
upper extremity thereof and at its inner side facing the handle, to provide a discharge open-ing, a pump rod slidably mounted through the bore of the cover and extended down into the tube, a piston at the lower end of the pump rod with-in the tube and adapted to pass down below the apertures of the lower end of the tube, and a perforate coffee basket removably supported in the upper end of the pot between the pump tube and the rear side of the pot, below the discharge opening of the upper end of the pump tube, the basket being formed at its frontal side to partial-ly embrace the pump tube below the discharge opening for receiving the full discharge from said opening.

2,164,400

METHOD OF MAKING RUBBER COMPOSITIONS AND THE LIKE

Edwin O. Groskopf, Rutherford, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts

Application March 16, 1937, Serial No. 131,159
6 Claims. (Cl. 134—17)



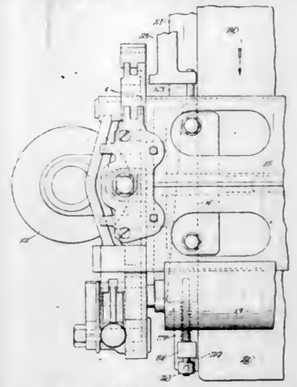
1. A method of preparing rubber cut-backs comprising wetting rubber slabs with water, shredding the rubber slabs while so wetted, con-veying the rubber directly as it is shredded to a feeding means, feeding the shredded rubber and a rubber solvent into a container, soaking the shredded rubber in the solvent until a sponge-like jellied mass of rubber and solvent is obtained and then agitating the solvent rubber mass to thereby complete the solution of the rubber in the solvent.

2,164,401

PLANK GIB FOR POWER PLATE PRINTING PRESSES

Albert A. Grossarth, La Grange, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application November 17, 1938, Serial No. 240,933
7 Claims. (Cl. 101—159)



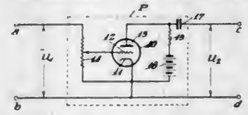
3. In a power plate printing press, the com-bination of a printing plate carrying plank, guide ways for said plank, and a spring actuated wedge member normally extending into the path of said plank and arranged to be depressed thereby during its travel between said guide ways and while the plate is being wiped, thereby eliminat-ing side slap of the plank during wiping.

2,164,402

ELECTRICAL CIRCUIT

Gustav Guanella, Zurich, Switzerland, assignor to Radio Patents Corporation, New York, N. Y., a corporation of New York

Application February 17, 1938, Serial No. 190,940
In Switzerland March 10, 1937
9 Claims. (Cl. 172—238)



1. A four-pole network having an input and an output, a potential divider connected between an input terminal and an output terminal of said network so as to be in series relation with both said input and output, an electron discharge de-vice having at least a cathode, a grid and an anode, a coupling connection from an interme-diate point of said potential divider to said grid, a connection from said anode to said output ter-minal, and a further connection from said cathode to both the remaining input and output terminals of said network.

2,164,403

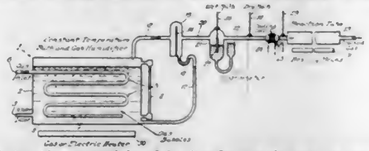
METHOD OF AND MEANS FOR REFORMING GASES

Robert G. Guthrie and Oscar J. Wilbor, Chicago, Ill., assignors to Peoples Gas By-Products Corporation, Chicago, Ill., a corporation of Illinois

Application March 31, 1937, Serial No. 134,071
5 Claims. (Cl. 23—5)

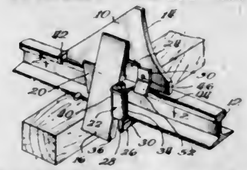
4. Method of reforming fuel gas of known com-position containing hydrocarbon constituents

which are combinable with water vapor to render it suitable for use as an atmosphere for the bright heat treatment of metals which comprises intimately agitating the fuel gas in contact with a relatively stationary body of water to produce substantially complete saturation of the gas with water vapor at a predetermined temperature and a predetermined pressure, said temperature and pressure being selected at such values with re-



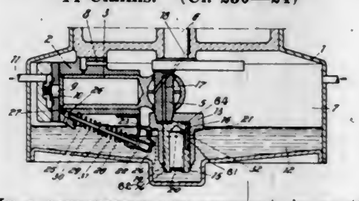
spect to the combinable hydrocarbons present in the gas that the ratio of water vapor to said combinable hydrocarbons present in the saturated gas is substantially exact for complete reaction of all of the water vapor with all of the combustible hydrocarbon constituents to produce carbon monoxide and hydrogen, and then subjecting the saturated gas to reforming temperature to reform the hydrocarbons and water vapor into carbon monoxide and hydrogen.

2,164,404
SCOTCH BLOCK
Stanley W. Hayes, Richmond, Ind., assignor to Hayes Track Appliance Company, Richmond, Ind., a corporation of Indiana
Application May 16, 1938, Serial No. 208,159
16 Claims. (Cl. 104—259)



1. A scotch block having a car wheel abutment structure upstanding in the plane of the rail substantially to the level of the car wheel axis and adapted to slide along the rail under car wheel impact, and means supported by said structure and movable vertically in the plane of the rail adapted to contact the rail for centering the block.

2,164,405
DEVICE FOR FACILITATING THE STARTING OF REFRIGERATING APPARATUS OF THE COMPRESSOR TYPE
Rudolf Hintze, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany
Application August 20, 1937, Serial No. 160,011
In Germany August 26, 1936
14 Claims. (Cl. 230—24)



1. In a compressor arrangement, in particular for refrigerating systems, having a lubrication pump coupled with the compressor and a device for unloading said compressor in dependence upon the pressure of the lubricant produced by said pump, said pump having two cooperative pumping members arranged movably with relation to each other and designed to impel said lubricant by said relative movement, one of said pumping members being arranged so as to be additionally movable in a direction differing from that of said first movement in response to the increase in the pressure of said lubricant caused by said pump, and a mechanical connection between said additionally movable pumping member and said unloading device for operating said device by said additional movements of said latter member.

2,164,406
CONICAL CUP DISPENSER
Samuel N. Hope, Wauwatosa, Wis., assignor to Griffith-Hope Company, West Allis, Wis., a corporation of Wisconsin
Application February 26, 1937, Serial No. 127,858
6 Claims. (Cl. 312—43)

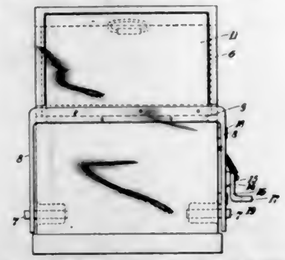


1. A cup dispenser comprising a back plate having forwardly projecting side flanges, a dispensing member rigidly secured to said flanges and having a cup-dispensing opening the edges of which are adapted to support a stack of nested cups thereon, said plate and member forming a frame, and a casing member pivotally mounted on said frame at a point below said dispensing opening and cooperating with said back plate for housing the stack of cups, the lower portions of the front and opposite sides of said casing member forming a skirt extending below said dispensing opening.

2,164,407
DUST PAN AND COLLECTOR
Otto Jarchow, Scheessel, Germany
Application May 11, 1937, Serial No. 141,893
In Germany June 20, 1936
3 Claims. (Cl. 65—63)

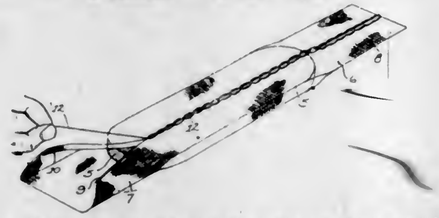
1. A dust collector comprising a receptacle closed at all sides throughout a substantial portion of its height, and formed to provide an opening at the front, upper half of the receptacle, a dustpan normally closing the opening in the receptacle, supporting means for the pan comprising, two side arms rigid at the upper ends with a crossbar, and each journaled at its lower end at the outside of one of two opposite side walls

of the receptacle, the front edge of each of the side walls being cut out to receive said crossbar, and the journals for the side arms being mounted in the said side walls, adjacent the lower front corner of the walls, a spring connected at one end to the receptacle, and connected at its opposite end, with one of said side arms, for normally



holding the side arms vertical and the pan in raised position, fitting the opening at the front of the receptacle, and a foot-pedal secured to one of said arms, operable to cause the side arms to swing outward and downward with respect to the receptacle, to lower the pan to the surface of a floor.

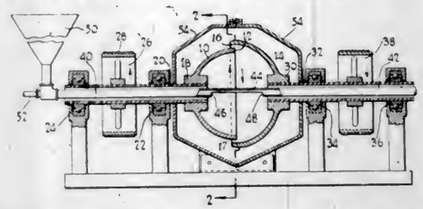
2,164,408
METHOD OF MANUFACTURING SANITARY NAPKINS
Curt G. Joa, Sheboygan Falls, Wis., assignor to Curt G. Joa, Inc., Sheboygan Falls, Wis., a corporation of Wisconsin
Application March 13, 1937, Serial No. 130,686
5 Claims. (Cl. 128—290)



1. A method of making sanitary napkins which includes the longitudinal folding of the pad, drawing about the folded pad a wrapping material therefor, portions of such material being drawn to extend beyond the edges of the pad at the side to which the margins of the pad project, stitching together the aforesaid portions of the wrapping material at a point to provide a tube accommodating the normal cross section of the pad, and thereafter flattening the pad to fill the tube of wrapping material thus formed and to draw the seam onto the flat face of the pad.

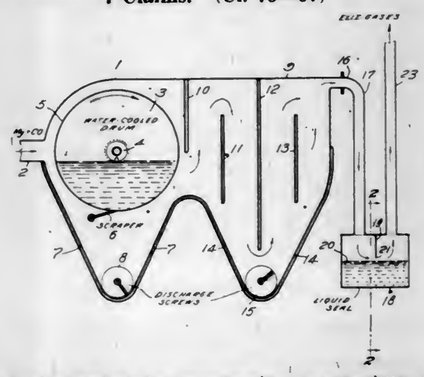
2,164,409
FINE GRINDING
Vinson L. Johnson, Mount Vernon, N. Y.
Application August 27, 1937, Serial No. 161,211
7 Claims. (Cl. 83—46)

1. The method of fine grinding which comprises feeding material to be ground into a rapidly revolving shell having an axially divergent wall which terminates at a free edge, accelerating the material to movement at high speed in a direction of movement of the shell and centrifugally advancing it axially toward said edge, projecting particles of the material over said edge and tangentially from their previous paths of movement, impacting projected particles inside an adjacent surface rapidly revolving coaxially with but in a direction opposite to said shell, maintaining a layer of coarser material on said surface and in the paths of projected particles by centrifugal force and centrifugally discharging ground material therefrom.



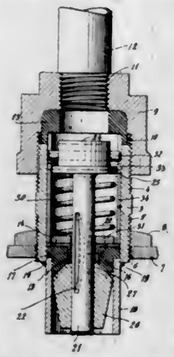
3. Grinding apparatus comprising a plurality of substantially coaxial hollow shells arranged with each shell facing opposite an adjacent shell and with their adjacent edge portions in overlapping relation, means for revolving the oppositely facing shells in opposite directions at high speeds, means for introducing material to be ground into an overlapped shell, and means inside the edge of an overlapping shell operative by centrifugal force during revolution thereof to retain a body of particles moving in a circular path across the paths of particles projected from the edge of an overlapped shell, the overlapping shell being formed so as to discharge ground material past the edge thereof by centrifugal force.

2,164,410
METHOD OF AND APPARATUS FOR CONDENSING
Frank R. Kemmer, Larchmont, N. Y., assignor to Magnesium Products, Inc., Wilmington, Del., a corporation of Delaware
Application July 8, 1933, Serial No. 679,498
7 Claims. (Cl. 75—67)



1. Apparatus for condensing magnesium vapors contained in a gaseous medium comprising a chamber, an opening therein for the introduction of said gas, an artificially cooled surface, means for directing said gas so as to cause it to immediately impinge thereon and means including a circulating fluid for maintaining said surface at a sufficiently low temperature so that magnesium vapors are rapidly cooled through the range of temperature in which magnesium is reactive with CO whereby the magnesium is condensed thereon and reaction with other constituents of the gas is substantially prevented, and a pressure regulator in the system.

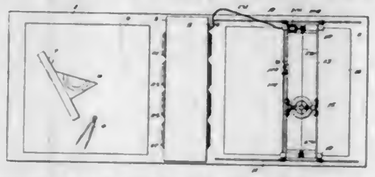
2,164,411
NOZZLE
Joseph E. Kennedy, New York, N. Y., assignor to Kennedy-Van Saun Mfg. & Eng. Corporation, New York, N. Y., a corporation of Delaware
Application November 21, 1936, Serial No. 111,970
6 Claims. (Cl. 299—150)



2. In a nozzle for admitting fluid under pressure into a container for discharging material therefrom, a casing having an inlet opening axially at one end adapted to be connected to a source of fluid under pressure and an outlet opening axially in the opposite end, and adapted to be mounted at said end in an opening in the wall of a container with the outlet opening in communication with the container, a member of resilient material disposed about the outlet opening exterior of the casing arranged with a valve seat, valve means comprising a stem slidably mounted in the outlet opening having heads at the opposite ends with one of said heads within the casing to constitute a piston head of slightly less diameter than the casing and the other head exterior of the casing to constitute a valve head adapted to be seated against the valve seat to close and control the casing outlet, and means to urge the valve means in a direction to seat the valve head against the valve seat and seal the outlet opening and the head within the casing adjacent to the inlet opening to be impinged by the fluid pressure admitted to the casing through the inlet opening and thereby actuate the valve means to position the valve head exterior of the casing away from the valve seat and open the outlet opening, and means to effect rotative adjustment of and retain the valve means in adjusted position and limit the outlet opening movement of the valve means.

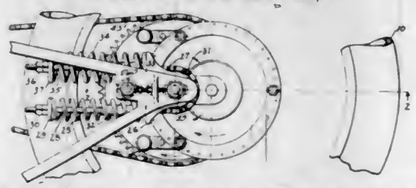
2,164,412
NAVIGATING APPARATUS FOR INSTRUCTION PURPOSES
Paul Eduard Köster, Berlin-Siemensstadt, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application July 30, 1937, Serial No. 156,566
In Germany July 30, 1936
22 Claims. (Cl. 35—12)

1. A navigating apparatus for instruction purposes comprising at least two operating tables, one of said tables intended for the pupil being provided with instruments for indicating the course, the air speed and preferably also the altitude of an imaginary flight, and signal transmitters for adjusting said instruments to show desired indications, and a second table intended for the teacher being provided with a device for automatically recording the course of flight, said



recording device being controlled by the signals transmitted by the above-mentioned signal transmitters.

2,164,413
SPRING WHEEL MOUNTING FOR AUTOMOTIVE VEHICLES
Alfred Kuehn, Wauwatosa, Wis.
Application August 13, 1936, Serial No. 95,725
In Germany August 14, 1935
2 Claims. (Cl. 180—30)



2. In a motorcycle wheel suspension, a forked frame member, a crank-shaped axle across the arms of the fork and provided with a sprocket integral with the crank, a wheel mounted upon the crank for eccentric movement with respect to the axis of the crank mounting in the frame, a chain about said sprocket and provided with chain ends reciprocable in accord with oscillations of the sprocket, a spring saddle upon the frame, a compression spring mounted on said saddle and connected with one of the chain ends whereby to compress the spring in the oscillation of the sprocket, a driving member mounted for rotation upon the axis of the frame, a driven member for rotation with the axle and linkage between said members whereby to provide power connection between the said members despite eccentric oscillations of the wheel under control of said spring.

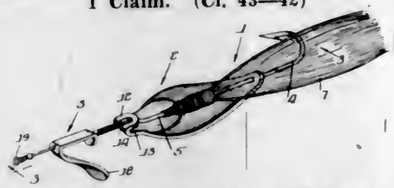
2,164,414
AIRCRAFT
Albert Regan Long, Elmhurst, N. Y.
Application January 22, 1936, Serial No. 60,207
5 Claims. (Cl. 244—132)



1. In an aerofoil for aircraft, a supporting frame having cap strips with open undercut grooves formed thereon and a thin flexible sheet-like covering bound about said frame under tension, said grooves containing loops of the covering therein and thin flat locking keys, said covering being firmly fastened to said cap strip by said thin flat keys disposed in said grooves and locked therein in flat engagement with said loops formed from the covering, said keys being of a soft readily upsettable metal and having little resistance to upsetting operations locally applied transversely of the surface thereof and which may be upset and removed from said grooves by the hand application of a tool underneath the same, but

firmly resisting and holding fast against tensile stress exerted on the covering and each groove containing a multiplicity of short, juxtaposed, flat, upsettable keys engaging the loop of the cover and locking the same therein.

2,164,415
FISH LURE
Hugh Mallett, Bradford, Ill.
Application February 25, 1937, Serial No. 127,706
1 Claim. (Cl. 43—42)



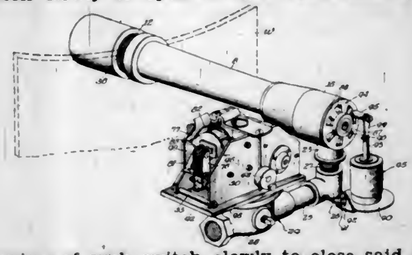
A fish lure comprising a fly having a hook with an eye at one end thereof and a lure, a spoon having a body portion and an end portion bent upwardly and inwardly of said body portion to form a channel for receiving one end of said hook, said channel having a slot extending in a direction transverse of the plane of the hook eye when positioned in the channel, said channel constituting a bifurcation, and a spinner having a hooked end, the end portion of the spoon being provided with said slot to permit the hooked end of the spinner to pass therethrough and detachably engage the eye end of the hook whereby to directly connect the spinner with the hook and retain the spoon upon the hook, the hook of the spinner being positioned in the bifurcation when the loop thereof is positioned in the eye of the hook whereby upon release of the spinner hook from the eye of the fly hook, the eye of the fly hook will be free for release from the channel by either longitudinal or lateral movement.

2,164,416
PROCESS FOR THE PRODUCTION OF CELLULOSIC PRODUCTS
Arnold Marschall, Baden, Germany, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 4, 1937, Serial No. 162,504
12 Claims. (Cl. 260—229)

1. In a process for the production of a cellulose ester from difficultly esterifiable, dry wood pulp sheets having a density of at least 0.4, the step which comprises agitating said sheets in a liquid, cellulose ester-forming, lower aliphatic acid to disintegrate the same and form a slurry of substantially unesterified individual fibers and loosely held aggregates of fibers which are highly reactive and readily esterifiable.

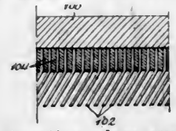
2,164,417
GAS BURNER
Garnet W. McKee, Rockford, Ill.
Application September 20, 1937, Serial No. 164,611
8 Claims. (Cl. 158—119)

1. A burner of the character described comprising in combination an injecting tube having a burner head at one end thereof and adapted to have air flow into its other end, a nozzle connected to receive gas under pressure and arranged to direct the gas so that it flows in jet form through the tube to the burner head and entrains air into said other end of the tube for mixture therewith, a valve for controlling the supply of gas to the nozzle, a valve for controlling the flow of air into said other end of the tube, a switch controlled source of electric current, mechanism, including a source supplied electric motor and adapted upon closing of the switch slowly to open the gas valve and upon



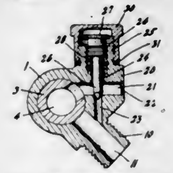
opening of such switch slowly to close said gas valve, and electric means independent of said mechanism connected to receive current from said source and adapted upon closing of the switch substantially instantaneously to open the air valve and upon opening of said switch substantially instantaneously to close the air valve.

2,164,418
MEANS FOR TREATING HARD SURFACES
Georges Monnet, Chateau de Franiere, Belgium, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France
Application May 18, 1935, Serial No. 22,143
In France May 23, 1934
1 Claim. (Cl. 51—195)



Means for treating glass surfaces, comprising a rotatable support, a vertical axle carrying said support, and a plurality of spaced resilient blades inclined at an acute angle to the plane of the surface to be treated, each of said blades being connected to the lower portion of said support, and spacing members maintaining each blade apart from the other blades, each of said blades having a rigid, thin and elongated surface which is substantially parallel to the surface to be treated, the longitudinal direction of said blades being at an acute angle to the direction of the movement of the support.

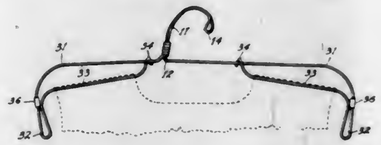
2,164,419
GAS COCK OR THE LIKE
Ervin H. Mueller, Detroit, Mich.
Application August 12, 1936, Serial No. 95,598
1 Claim. (Cl. 277—53)



A gas cock comprising, a valve body having a chamber constituting a valve seat, an inlet passageway entering the chamber from the side, an

outlet passageway connecting into one end of the chamber, a gas conduit leading from the said inlet passageway angularly, a second inlet passageway into which the said gas conduit connects, said second inlet passageway connecting into the side of the valve seat chamber, a valve member seated in the valve chamber rotatably and having an axial bore which connects into the outlet passageway, said valve member having port means in its side and leading into the bore and arranged to disalign with and to align with both of the said first and second inlet passageways in different rotary positions of the valve member, an enlargement on the valve body having an opening extending therethrough and into the second inlet passageway, the said opening and said conduit opening into the second inlet gas passageway at substantially diametrically opposite points, the end of said gas conduit which opens into the second inlet passageway constituting a valve seat, and an adjustable needle valve threaded in the said enlargement and having an exterior portion which is engageable for operation, said needle valve extending substantially across the second inlet passageway and arranged to meter the said conduit and to seat upon the valve seat and close the said conduit to stop flow of gas into the second inlet passageway and into said opening in the enlargement around the needle valve.

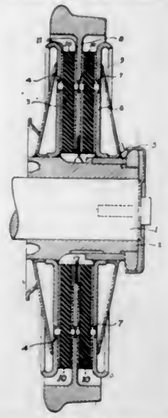
2,164,420
GARMENT HANGER
Byron T. Petty, Effingham, Ill.
Application February 10, 1936, Serial No. 63,167
7 Claims. (Cl. 223—92)



2. A garment hanger including laterally extending wires forming an upper garment support, doubled under and back to form a pair of normally closed loops, the lower portions of said loops forming lower supports for the shoulder straps of a garment, and each of said lower portions being removably secured to another part of the hanger by an open hook and when released permitting the insertion of the shoulder straps.

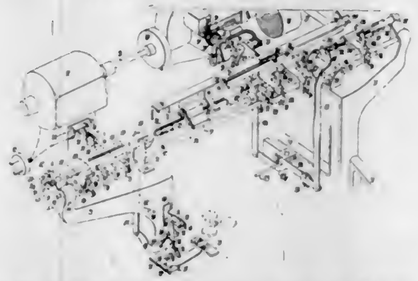
2,164,421
METHOD OF MAKING SPRINGING ELEMENTS
Emil H. Piron, New York, N. Y., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York
Application July 15, 1936, Serial No. 90,693
3 Claims. (Cl. 29—159)

1. The method of making a springing element for a resilient wheel wherein a tire is supported by an elastic means in shear, which consists in forming a plurality of holes through a pair of stiff plate members in symmetrically spaced relation about the intended axis of rotation thereof, in drawing the metal about and of said holes into cylindrical projections normal at their exterior surfaces to the surfaces of said plates, in completely filling said projections with metal flush with the exterior surfaces of said plates, and in surface bonding said plates to each side of flat circular masses of elastic material, said material



being uniformly distributed about said intended axis of rotation.

2,164,422
TYPEWRITING MACHINE
Henry L. Pitman, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application January 2, 1936, Serial No. 57,205
24 Claims. (Cl. 197—63)

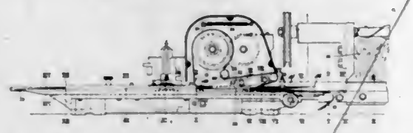


1. In a typewriter, in combination, a frame, a carriage mounted for reciprocatory movement on the frame, power-operated means normally in idle condition and conditionable for returning the carriage, a stop mounted on said carriage, a margin-stop normally out of the path of said carriage-stop, a banking rod mounted on said frame for limited endwise movement and arranged to locate said margin-stop laterally at different carriage-return-limiting stations, a carriage-return key for conditioning said power-operated means, means operable by said key to move said margin-stop into the path of said carriage-stop, and means operable by the endwise movement of said banking rod at engagement of said margin-stop by said carriage-stop to restore said power-operated means to idle condition.

23. In a typing machine; a frame, a carriage thereon having a counter-stop, a plurality of stops, means, including a rack, for placing said stops along the carriage path and also including an element movable to move all the stops from normally retracted positions into the path of the carriage counter-stop, power means for moving said carriage in one direction, a key, connections enabling said key to cause a carriage-moving operation of said power means and to move said

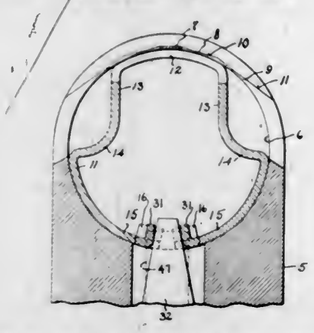
stop-moving element, said rack being displaced endwise as any key-moved stop is engaged by the carriage counter-stop in the power movement of the carriage, and means responsive to the endwise displacement of said rack to terminate the power movement of said carriage.

2,164,423
MANUFACTURE OF CIGARETTES
Arthur Podmore, London, England, assignor to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Application December 4, 1935, Serial No. 52,747
In Great Britain December 6, 1934
10 Claims. (Cl. 131—43)



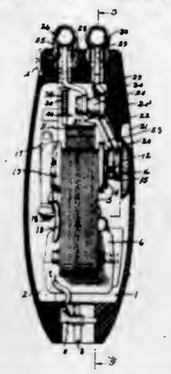
3. In a cigarette rod former for continuous rod cigarette machines, a compression throat open at the top, a traveling band overlying and engaging the upper part of the filler to positively feed the same, said opening in the compression throat comprising a tapered slot which is closed by said band, and a U-shaped channel element preceding said compression throat in the direction of travel of the filler, the walls of said channel element extending into engagement with said traveling band and decreasing in height in the direction of travel of the filler, whereby the filler is subject to compression by the traveling band.

2,164,424
CUTTER BAR FOR DRY SHAVERS
James H. Rand, Jr., Stamford, Conn., and Russell E. Benner, Buffalo, N. Y., assignors, by mesne assignments, to Remington Rand, Inc., New York, N. Y., a corporation of Delaware
Application July 2, 1937, Serial No. 151,650
5 Claims. (Cl. 30—43)



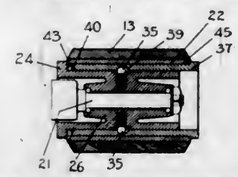
5. A dry shaving device as described comprising an outer member having a passage therethrough to form a thin wall which is transversely slotted to provide cutter bars, an inner hollow cutter mounted in said bore formed of a thin sheet of suitable steel into a hollow section which is longitudinally split, and spring pressed members engaging the inner cutter in the split to expand the inner cutter in said bore and force it against the rear faces of the outer cutter bars, said inner cutter being slotted to form cutter bars adjacent the outer cutter bars.

2,164,425
MULTIPLE HEAD DRY SHAVER
James Henry Rand, Jr., Stamford, Conn., assignor, by mesne assignments, to Remington Rand, Inc., New York, N. Y., a corporation of Delaware
Application July 9, 1937, Serial No. 152,724
12 Claims. (Cl. 30—43)



2. A shaving device of the type described comprising a housing forming a handle, a motor mounted in said housing, a plurality of cutter heads mounted on said housing, at least one of which is angularly adjustable with respect to the others, and means for operatively connecting said heads to said motor.

2,164,426
THREAD PRODUCTION APPARATUS
James D. Renfroe, Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application June 8, 1937, Serial No. 147,088
7 Claims. (Cl. 242—130)

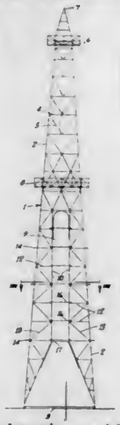


1. In an apparatus for the winding of thread on a cylindrical supporting means, a spindle, a rotatable hub on said spindle, a supporting sleeve adapted to fit over said hub, and cooperating means on said hub and supporting sleeve for securely holding said cylindrical supporting means.

2,164,427
DERRICK CONSTRUCTION
Aaron D. Rhodes, Los Angeles, Calif., assignor to Consolidated Steel Corp., Ltd., Los Angeles, Calif., a corporation of California
Application July 19, 1938, Serial No. 220,050
8 Claims. (Cl. 189—16)

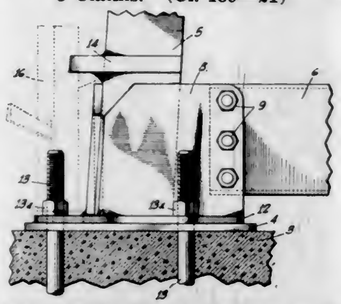
5. In combination with a derrick tower including a base, legs extending upwardly from said base, and lateral and diagonal bracing for holding said legs in fixed spaced relationship relative to each other; a window opening disposed between two adjacent legs and having a vertical height substantially equal to or in excess of one-half the total height of the derrick; and auxili-

ary bracing means associated with each of said



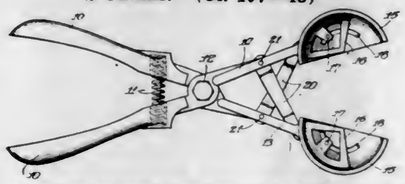
adjacent legs for bracing said legs against movement in the plane of said window opening.

2,164,428
DERRICK LEG FOOTING
Aaron D. Rhodes, Los Angeles, Calif., assignor to Consolidated Steel Corp., Ltd., Los Angeles, Calif., a corporation of California
Application July 29, 1938, Serial No. 221,947
5 Claims. (Cl. 189—21)



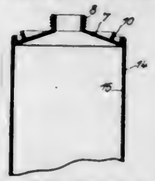
1. As an article of manufacture, an integral derrick leg unit comprising: a derrick leg portion terminating at one end in a footing plate integral with said leg portion and disposed transversely thereof; and a bracing plate integral with said leg portion and said footing plate for bracing the junction between said leg portion and said footing plate.

2,164,429
SCOOP
John C. Ritter, Los Angeles, Calif.
Application February 25, 1938, Serial No. 192,450
2 Claims. (Cl. 107—48)



1. A scoop comprising two pivotally connected pincer handles; cooperating mold members at the ends of said handles; a spring holding said mold members normally separated; a scraper element revolvable in one mold member, there being a slot in the wall of said mold member and said scraper element being provided with an operating projection extending through said slot; and a link pivotally connected with said projection traversing the space between said handle ends and pivotally connected with the other pincer handle.

2,164,430
COLLAPSIBLE TUBULAR CONTAINER
Friedrich Paul Schmidt, Suhl, Germany
Application May 19, 1938, Serial No. 208,747
In Germany August 24, 1937
10 Claims. (Cl. 221—60)

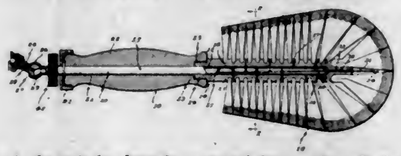


1. In a collapsible tubular container, a tube body composed of a plurality of layers, a metal top having an outlet aperture for the container, and a flange on the said top spaced from the edge of the top to establish a folded connection with the said body, the inside layer of the said body being extended up to the said outlet aperture.

2,164,431
PRODUCTION OF ETHERS SUITABLE AS DISPENSING AGENTS AND OF PREPARATIONS THEREFROM
Conrad Schoeller, Ludwigshafen-on-the-Rhine, and Joseph Nuesslein, Frankfort-on-the-Main-Hochst, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, a corporation of Germany
No Drawing. Original application December 22, 1932, Serial No. 648,446. Divided and this application November 16, 1937, Serial No. 174,820. In Germany January 2, 1932
5 Claims. (Cl. 260—615)

1. Dispersing, wetting, cleansing and softening agents suitable in the textile and related industries, consisting essentially of an ether of one glycol selected from the group consisting of diethylene glycol and tri-ethylene glycol, one hydroxyl group thereof being etherified with a saturated aliphatic radicle free from hydroxy groups containing at least 8 carbon atoms.

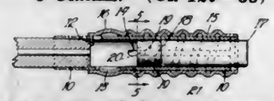
2,164,432
FOUNTAIN BRUSH
Samuel D. Selwyn, Chicago, Ill.
Application August 21, 1936, Serial No. 97,163
2 Claims. (Cl. 15—128)



1. A fountain brush comprising a brush back mounting having bristles mounted thereon and having a centrally arranged passage or bore

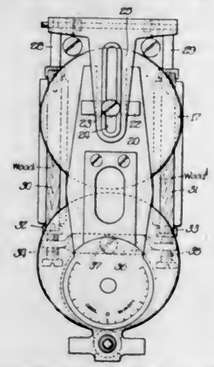
formed therein, said brush back having passages formed therein extending from the said central passage to the peripheral surface of the same, a tube rotatably mounted in the said central passage and having ports or openings formed therein in registration with the said passages, a valve movably mounted in the said tube for controlling the passage of fluid therethrough, and a rod or plunger slidably mounted in the said tube for operating the said valve, said rod having a rear and inner end portion operatively connected to the said valve and having a front and outer end portion projecting forwardly of the said brush back or mounting and beyond the front end of the same, a handle attached to the said brush back and having a portion of said tube rotatably mounted therein, and a finger grip mounted on said tube rearwardly of said handle for rotating the said tube relative to the said brush back and handle so as to move the said ports into and out of registration with the said second-named passages.

2,164,433
ADJUSTABLE ERASER ATTACHMENT
Wallace W. Smith, Chicago, Ill.
Application March 28, 1938, Serial No. 198,349
6 Claims. (Cl. 120—38)



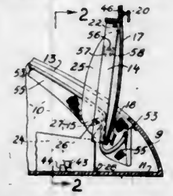
1. An eraser provided with a projection on its side, a tube adapted to receive said eraser and having an open ended guide for receiving said projection, and a nut adapted to engage said projection and move it in said guide.

2,164,434
HYGROTHERMOSTAT
Morton O. Snediker, Chicago, Ill., assignor to The Powers Regulator Company, Chicago, Ill., a corporation of Illinois
Application March 12, 1936, Serial No. 68,489
5 Claims. (Cl. 236—44)



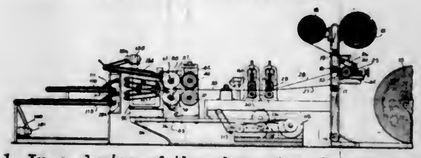
1. In a hygro-thermostat, the combination of a valve for controlling a supply of heat, a thermo-sensitive element for controlling said valve, a support for said element, means applied to one end of said support for adjusting the position of said support, whereby to vary the effect of said thermo-sensitive element on the valve, a hygro-sensitive element mounted in juxtaposition to said thermo-sensitive element, and means for changing the endwise movement of the hygro-sensitive element into movement at right-angles thereto as applied to the other end of said support whereby to vary the adjustment of said heat-sensitive element according to moisture conditions as reflected by said hygro-sensitive element.

2,164,435
RUMBLE SEAT METHOD AND MEANS
Frank V. Suchanek, New Rochelle, N. Y.
Application November 6, 1936, Serial No. 109,403
3 Claims. (Cl. 296—66)



1. In a vehicle body, a rear deck storage compartment comprising side walls, top, and floor, an opening in the top, a frame-like cover in the opening and hinged to the upper front edge of the top and being swingable from a position overlying the top upwardly and out of said storage compartment, a solid cover positioned within the opening of the frame-like cover and pivoted thereto so as to be movable from a position closing the opening to a substantially vertical position, a rumble seat comprising bottom and back members normally placed horizontally beneath the solid cover, means permitting both said seat members to be shifted away from beneath the opening, the back member being movable on pivots to permit its movement to a vertical position in the opening when the solid cover is up, said pivots being co-axial with those of the solid cover, said cover and back members being so disposed that movement of said cover from a closing position in the frame-like cover to a substantially vertical position exercises a pressure on the seat back member to raise it from horizontal to substantially vertical position, and vice versa.

2,164,436
BOX BLANKING MACHINE
Marshall A. Waters, Chicago, Ill.
Application March 31, 1938, Serial No. 199,128
23 Claims. (Cl. 93—58.2)

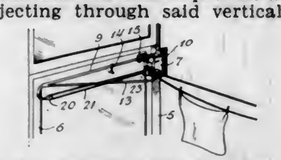


1. In a device of the character described, the combination with web supplying means, of a longitudinal web scoring device comprising a closely adjacent pair of blunt compression scorers and platen means of substantially rectilinear cross section coacting therewith and disposed on the opposite side of the path of web advance from said scoring device.

2,164,437
CLOTHESLINE SUPPORT
Thomas Steven Wilber, Linden, N. J.
Application April 19, 1938, Serial No. 202,818
1 Claim. (Cl. 248—145)

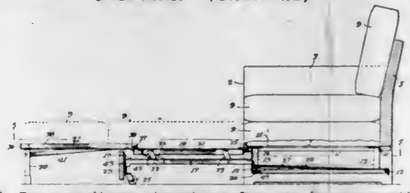
A clothes line support adapted for attachment to a window frame, comprising an angular bracket for receiving a vertical edge of said frame, means

to secure said bracket to said frame, an open frame for said support including upper and lower horizontal portions extending from said bracket and a vertical portion connecting said horizontal portions, the latter portions having vertically aligned openings therein, a socket formed at the upper end of said vertical portion and a retaining hook at the lower end thereof, a hanger arm extending horizontally from said open frame and bent intermediate its ends to provide a pivot portion projecting through said vertically aligned



openings to suspend said arm for horizontal swinging movements, a U-shaped detent slidably mounted on said arm for movement toward and away from said open frame, a pin carried by said detent for engagement in said socket to lock said arm in a position wherein it extends across the opening of said window frame, a clothes-supporting line connected to the end of said arm remote from its pivot portion and engageable in said retaining hook, and means to prevent disengagement of said line from said hook when said arm is locked.

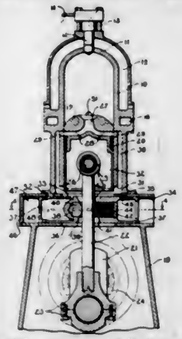
2,164,438
ARTICLE OF FURNITURE
Edward E. Woller, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware
Application July 31, 1936, Serial No. 93,578
9 Claims. (Cl. 5—21)



8. In a unitary structure for use in converting a love seat or like article of furniture into a bed, a generally rectangularly shaped main frame, a pair of hingedly connected bed sections, each of which is provided with a generally rectangular frame, normally resting upon said main frame in folded, superposed relation, a pair of parallel bar linkages, each of which connects one end of the frame of the lower bed section and the main frame, and at least one link member connected at a lower end to the main frame and at a point inwardly of the upper end thereof to the frame of the upper bed section at a point thereon spaced some distance from the hinge point of said sections, said parallel linkages and said link member being actuable when said bed sections are unfolded to bed position to raise said bed sections relative to the main frame, a leg pivotally connected to the free end of the upper section, and a leg operating link connected at one end thereof to said leg and, at the other end thereof, to the upper end of the link member.

2,164,439
INTERNAL COMBUSTION ENGINE
Allan R. Wurtele, Mix, La.
Application June 29, 1937, Serial No. 150,888
5 Claims. (Cl. 123—74)

3. In an internal combustion engine, a power cylinder, a crankshaft, a connecting rod connecting said piston and crankshaft, and means for forming an air-tight chamber in the bottom of said cylinder below said piston comprising a transverse cylinder, a piston valve therein and

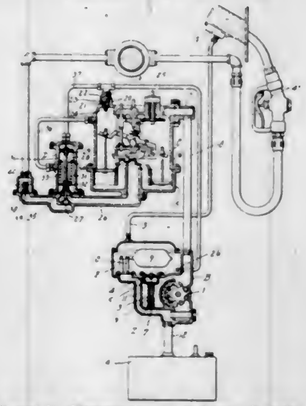


a plunger slidably mounted in said valve, said transverse cylinder, piston valve and plunger having registering openings therein for the passage of said connecting rod and resilient means for holding said plunger in engagement with said rod.

2,164,440
PROCESS FOR THE PREPARATION OF TRIMETHYLOLNITROMETHANE
Joseph A. Wyler, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.
No Drawing. Application June 4, 1938, Serial No. 211,802
9 Claims. (Cl. 260—635)

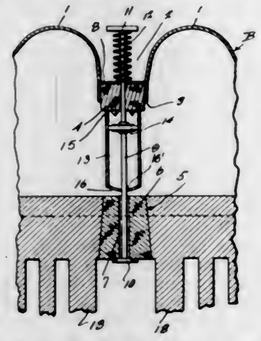
1. The process for the preparation of trimethylolnitromethane which comprises condensing mononitromethane with formaldehyde in an alkaline medium comprising a monohydric aliphatic alcohol containing from four to six carbon atoms.

2,164,441
FLUID DISPENSING SYSTEM
Reuben E. Bechtold, Fort Wayne, Ind., assignor, by mesne assignments, to S. F. Bowser and Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Application February 12, 1938, Serial No. 190,158
7 Claims. (Cl. 221—95)



1. A liquid dispensing system having a flow line including a storage tank, a discharge nozzle, a pump for forcing liquid from the tank to the nozzle, a liquid meter in said flow line between the pump and nozzle having a liquid receiving chamber provided with a restricted passageway in the top thereof, a float chamber associated with said pump having a float controlled port communicating with the suction side thereof, an air vent conduit leading from the top of said float chamber open to the atmosphere, and a conduit leading from said restricted passageway to said float chamber below the float controlled liquid level thereof.

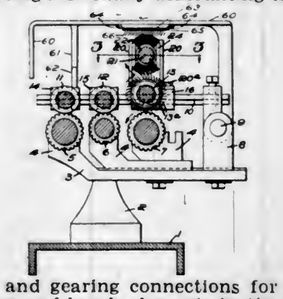
2,164,442
FOUNTAIN COMB
Percy Bankston, Crossville, Tenn.
Application June 1, 1938, Serial No. 211,226
2 Claims. (Cl. 132—13)



1. A fountain comb comprising a back having a toothed edge and a discharge duct extending therethrough for conveying liquid to said edge, a liquid-containing reservoir on said back with which said duct communicates, and means to eject a measured amount of liquid out of said duct comprising a liquid-measuring cylinder endwise movable in the reservoir between opposite limits of movement and having a ported end opposed to said duct in one limit of movement of said cylinder to block communication between said duct and reservoir and provide for ejection of fluid into the duct directly from said cylinder, said ported end in the opposite limit of movement of the cylinder being spaced from said duct for the filling of the cylinder therethrough from the reservoir, and a plunger extending into said reservoir and cylinder, said plunger being manipulative inwardly of the cylinder to move the same into the first-mentioned limit of movement thereof and subsequently eject the fluid therefrom through said ported end and into said duct, and being tensioned for movement outwardly of said cylinder to move the latter into said opposite limit of movement thereof and subsequently draw fluid from the reservoir into the cylinder by way of the ported end of the latter.

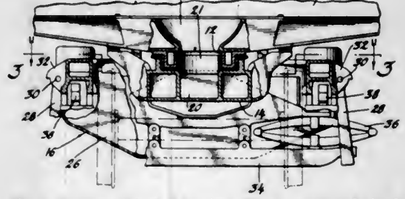
2,164,443
TEXTILE DRAFTING MEANS
Nelson A. Batchelder, West Barrington, R. I.
Application August 26, 1937, Serial No. 161,060
5 Claims. (Cl. 19—140)

1. In a yarn drafting or spinning frame, in combination, a support, roll stands thereon, brackets having bearings for a series of lower rolls, cap bars having bearings for a corresponding series of upper rolls, and cooperating pairs of rolls rotatively positioned in the respective lower and upper bearings, the upper roll series including a line of rolls having their drafting portions formed of a multiplicity of radial points, sectional shafting rotatively disposed above and paralleling the axes of said pointed rolls, radial brush elements on the shafting, means supporting the shafting for readily demounting the same



sectionally, and gearing connections for driving said shafting and brush elements in timed relation with the lower rolls of the pairs which include the pointed rolls and in such manner that the adjacent peripheral portions of the latter and of the brush elements move in opposition to each other.

2,164,444
COOLING OF RAILWAY TRACTION MOTORS
Martin P. Blomberg, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 2, 1937, Serial No. 118,788
14 Claims. (Cl. 105—59)

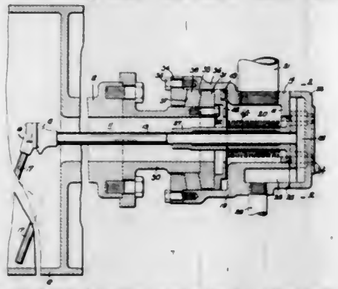


1. In a locomotive construction, a truck bolster having an air passageway formed therein having an open end, a transom having an air passageway formed therein and having an opening in one wall thereof adjacent said open end of the air passageway in the bolster, one of said bolster and transom being fixed on the truck and the other mounted on the truck for relative movement thereto, means for connecting said open end of the bolster passageway and adjacent transom wall opening to prevent leakage of air while permitting relative movement therebetween, and means for connecting the air passageway in the transom with a traction motor housing to cool the traction motor.

2,164,445
PAPER MACHINERY
Adam E. Bridge, Franklin, Ohio, assignor to The Black-Clawson Company, Hamilton, Ohio, a corporation of Ohio
Application December 5, 1935, Serial No. 53,026
3 Claims. (Cl. 285—10)

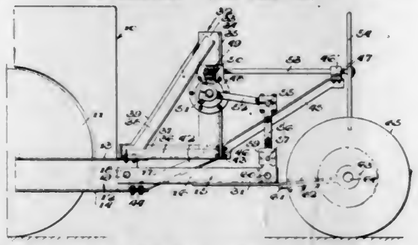
1. In combination, a hollow rotatable roll having a hollow journal shaft providing communication to the interior of the roll, a stationary steam supply fitting having a steam supply chamber in communication with the passage in the

journal shaft, a condensate withdrawal means in said passage supported by said fitting and having an extension reaching to a low point within the roll, a pipe for withdrawing condensate from said fitting, said shaft having a shoulder extending outwardly from the shaft axis and providing an abutment face facing toward the roll, said fitting enclosing said shoulder and having an



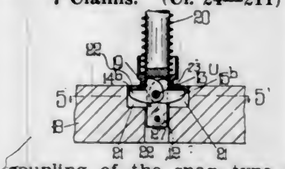
abutment face facing away from the roll, packing between said shoulder and fitting and normally held compressed by the pressure of the steam supplied to said fitting the packing having a conical abutment surface interfitting with one of said faces, said shoulder packing and fitting maintaining the fitting coaxially with the shaft, spring means holding the shoulder and fitting yieldingly in bearing relation with one another, and means for supplying steam to said fitting.

2,164,446
MACHINE TO CUT OR TRIM ASPHALT ROADS
James T. Clamp, Miami, Fla.
Application May 27, 1938, Serial No. 210,474
5 Claims. (Cl. 262—8)



1. In a machine for trimming a road bed, the combination with a wheeled support, of a generally horizontal triangular supporting frame arranged at the rear end of the wheeled support and pivotally connected therewith to swing vertically and having its base arranged adjacent to one side of the wheeled support, a rotary disk cutter disposed near and outwardly of the base of the supporting frame, means to mount the disk cutter upon the supporting frame, a relatively stationary supporting structure including an upstanding post arranged rearwardly of the wheeled frame, lower rearwardly converging beams secured to the lower end of the post and to the rear end of the wheeled support, upper rearwardly and upwardly converging beams secured to the upper end of the post and to the end of the wheeled support, an intermediate brace inclined upwardly in a rearward direction and secured to the lower portion of the post and to the rear end of the wheeled frame, gearing mounted upon the post, means connecting the gearing and the vertically swinging supporting frame, and means to operate the gearing.

2,164,447
COUPLING
Frederick Arthur Clarke, Wembley, England
Application July 14, 1937, Serial No. 153,645
In Great Britain September 14, 1936
7 Claims. (Cl. 24—211)



2. A coupling of the snap type including a pair of parts adapted to be coupled together, one of said parts including a socket provided with closure means having an aperture therethrough, a pair of bell-crank fingers pivoted intermediate the ends thereof to one end of the other of said parts, said fingers having latching arms and locking arms provided with shoulders, a longitudinally displaceable member mounted on the part carrying said fingers, and spring means maintaining said displaceable member abutting against said locking arms for normally holding said latching arms in a position permitting them to extend through the aperture in said closure means when the parts are separated, the shoulders on said locking arms overlying the closure means when the parts are separated and being engageable with the edges of said closure means around the aperture therethrough upon movement of said parts toward one another into coupling position for angularly displacing the fingers to a position with said latching arms disposed within said socket in rear of said closure means, and said displaceable member being shaped to overlie the shoulders on said locking arms when the parts are coupled together for positively maintaining said latching arms in rear of said closure means whereby any force tending to separate the parts is assumed by said displaceable member.

2,164,448
STAKE BODY FOR VEHICLES
Harry Cohen, Galion, Ohio, assignor to The Perfection Steel Body Company, Galion, Ohio, a corporation
Application February 14, 1938, Serial No. 190,485
6 Claims. (Cl. 189—34)



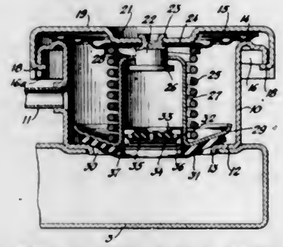
4. A metal board unit of the class described, comprising spaced sections in the form of flat plates, the said plates being formed at their edge portions with lateral flanges projecting toward each other, the flange of one plate being outermost receiving snugly the flange of the other plate and fitting around the latter, said outermost flange being formed with a holding flange extending completely about the perimeter of its plate in the plane of the plate having the flange surrounded by the outermost flange, so as to hold the two flanged plates together.

2,164,449
LUBRICATING DEVICE
Thomas C. Delaval-Crow, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 22, 1937, Serial No. 149,740
6 Claims. (Cl. 308—187)



1. In a device of the character indicated, a shaft, a member surrounding the shaft, an antifriction bearing between the shaft and the member to mount them for relative rotation, a lubricant receptacle alongside of the bearing and closed off from the shaft, the receptacle having a grease inlet and an outlet, a partition between the inlet and the outlet and adjacent to each to compel grease to fill the receptacle before reaching the outlet, a barrier between the receptacle and the bearing and having a restricted passage for lubricant, and the bearing being open at the side opposite to the barrier; substantially as described.

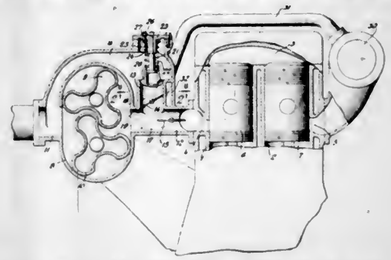
2,164,450
RADIATOR PRESSURE CAP
Jesse E. Eshbaugh and Nelson Walker, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 30, 1937, Serial No. 182,414
8 Claims. (Cl. 220—44)



3. In a filling spout closure of the character described, a retainer cap having a centrally dependent stud, an outwardly opening valve having a centrally domed portion slidably mounted on said stud, and an inwardly opening valve housed within said central dome.

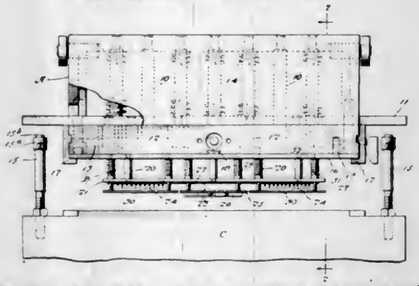
2,164,451
INTERNAL COMBUSTION ENGINE WITH BLOWER
Marion L. Fast, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application September 18, 1937, Serial No. 164,459
7 Claims. (Cl. 123—119)

1. In an internal combustion engine, in combination, a blower for supplying air under pressure to the engine, a bypass from the outlet to the inlet side of the blower, valve means for varying the effective output of the blower and the amount of air supplied to the engine by controlling the quantity of air returned through the bypass and re-circulated through the blower, the quantity of air supplied to the engine being reduced as the quantity of air re-circulated through the blower is increased and vice versa, and a hot spot in the bypass whereby the air delivered under



pressure from the blower to the engine is preheated to an extent increasing as the quantity of air re-circulated through the blower is increased and the quantity of air supplied to the engine is reduced.

2,164,452
DIE
Benjamin W. Freeman, Cincinnati, Ohio
Application December 30, 1936, Serial No. 118,352
Renewed September 16, 1938
48 Claims. (Cl. 101—30)

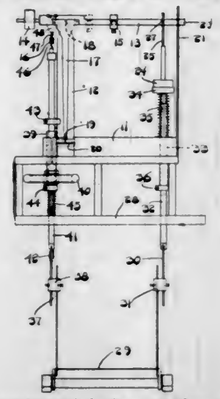


5. In a die of the class described, a base, a plurality of cutting units on said base, a marking unit adjacent said units, and stripping means for each of said cutting units arranged in spaced relation to said marking unit for operation independent thereof.

2,164,453
COIL SPRING TESTER
Frank W. Gaskins, Norwood, Ohio, assignor to The General Spring Company, Cincinnati, Ohio, a corporation of Ohio
Application February 25, 1937, Serial No. 127,717
1 Claim. (Cl. 265—16)

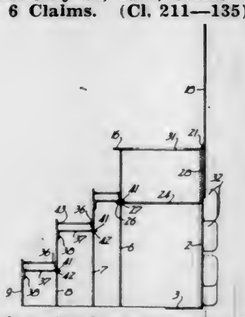
A coil spring tester comprising a base, a fulcrum supported above the base, a balance arm supported on the fulcrum, a pointer on the arm in the region of the fulcrum and extending normal thereto toward the base, a scale on the base associated with the pointer to indicate movement thereof, a weight adjustably mounted on one end of the arm to balance it, means on the arm between the fulcrum and the weight for attachment thereto of one end of the spring to be tested, a spring tensioner extending from the base beneath the spring to be tested, a weight adjustably mounted on the end of the arm opposite to the end mounting the first mentioned weight, whereby adjustment of said second mentioned weight will balance the initial tension of the spring being tested, a third weight placed for support on

the arm end carrying the second mentioned weight, a weight lifter beneath the third mentioned weight and normally supporting it from the arm, and coordinating mechanism adapted to operate the tensioner and weight lifter jointly, whereby simultaneously with spring tensioning the third mentioned weight will be placed on the arm, said tensioner having a movement causing



the relative movement between the spring ends to be that for which it was designed, said third mentioned weight being proportioned to exert the load on the spring for which it was designed, and whereby upon the spring thusly becoming tensioned simultaneously with the application of the load thereto the pointer should assume a position of rest substantially that of the prebalanced position of rest established after adjustment of the second mentioned weight.

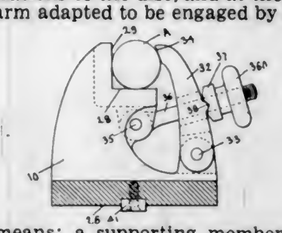
2,164,454
DISPLAY STAND
Charles H. Goodyear, Stockton, Calif., assignor to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware
Application July 20, 1937, Serial No. 154,601
6 Claims. (Cl. 211—135)



1. A display stand comprising a back wall, a pair of concentric walls standing in front of the back wall and connected thereto, and a shelf foldably connected to one of the concentric walls and interlocked with another concentric wall for supporting articles to be displayed.

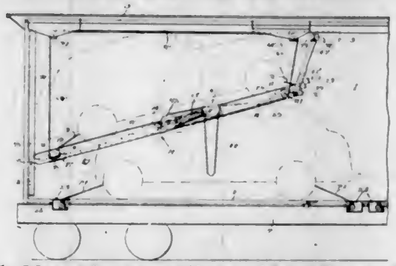
2,164,455
SHAFT INDEXING DEVICE
Franklin L. Hart, Boston, Mass.
Application January 12, 1939, Serial No. 250,519
4 Claims. (Cl. 90—57)

1. A shaft centering indexing fixture comprising in combination, a quill; a disc formed with angularly spaced perforations, secured to one end thereof; a shaft journaled in the quill and provided at one end with an arm adapted to engage the perforations of the disc, and at the other end with an arm adapted to be engaged by shaft con-



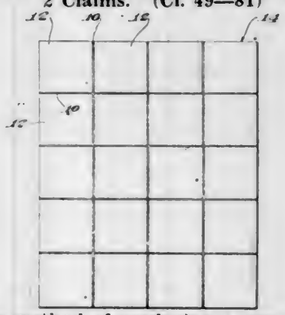
necting means; a supporting member having a base formed with a plane surface; alinged ledges parallel with said surface; and means for clamping the quill and a shaft in axial alignment on the ledges.

2,164,456
MEANS FOR SUPPORTING AND ELEVATING AUTOMOBILES IN FREIGHT CARS
Ernest W. Henry, Battle Creek, Mich., and Thomas H. Everett, Canton, Ohio
Application October 6, 1937, Serial No. 167,606
16 Claims. (Cl. 105—368)



1. Means for supporting and elevating an automobile in a freight car comprising a deck upon which the automobile is held in position, flexible members attached to said deck and cooperating with pulleys in the upper part of the car and on the deck, winding mechanism upon said deck including drums connected to said flexible members and means for operating said winding mechanism.

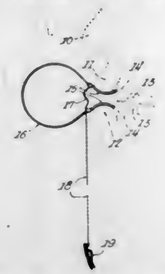
2,164,457
COMPOSITE STRUCTURE AND METHOD OF MAKING THE SAME
Dean S. Hubbell, Pittsburgh, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application February 5, 1937, Serial No. 124,347
2 Claims. (Cl. 49—81)



1. The method of producing a composite glass

structure which comprises forming the copper bearing magnesium oxychloride cement of a substantially fluid consistency, dipping a plurality of glass elements therein and immediately thereafter setting up the glass elements to form the composite glass structure whereby the adhering cement forms a thin joint between the elements.

2,164,458
LIP EXERCISER
Wilhelm Lowell Jacobson, Libby, Mont.
Application September 7, 1937, Serial No. 162,663
2 Claims. (Cl. 84—466)

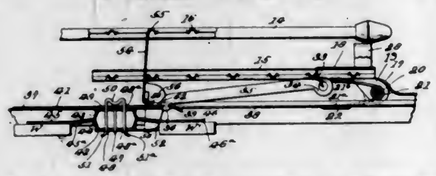


1. A lip exerciser of the character described, comprising, a relatively light flat spring in the form of a loop, a mouthpiece conforming to the cross-sectional shape of the lips attached to each end of said spring, and a non-extensible member joining the inner ends of said spring adjacent said mouthpieces to limit the opening of the loop.

2,164,459
TREATMENT OF WELLS
Harvey T. Kennedy, Forest Hills, Pa., assignor to Gulf Research & Development Company, Pittsburgh, Pa., a corporation of Delaware
No Drawing. Application May 28, 1937, Serial No. 145,386
8 Claims. (Cl. 166—21)

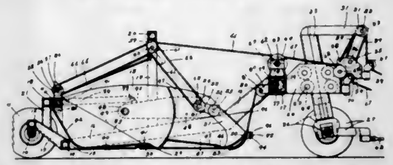
1. In shutting off water in oil wells having porous strata producing oil and producing water, the process which comprises forcing under pressure into the well and strata a dispersion of an emulsifying agent in a substantially non-aqueous liquid, whereby water in the oil-producing strata is emulsified, releasing pressure to cause flushing of the emulsified water into the well, removing liquids from the well, and then injecting into the well and strata a fluent material inert to oil and adapted to form a plugging precipitate in the presence of water.

2,164,460
TOY LADDER TRUCK
Harry T. Kingsbury, Keene, N. H.
Application March 8, 1938, Serial No. 194,658
8 Claims. (Cl. 46—215)



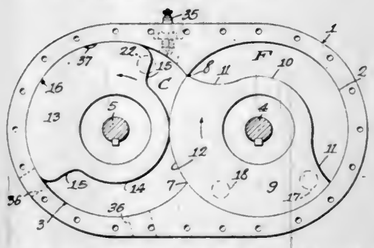
3. A toy ladder truck comprising a wheel supported body, a lower ladder section pivotally mounted on said body, an upper ladder section pivotally connected to the free end of said lower ladder section, catch means for maintaining said ladder sections in a folded position, spring means for elevating the said ladder sections upon release of said catch means, an escapement mechanism including a plate slidably mounted on said body for retarding the speed of elevation of said ladder sections, and means including a link connecting said plate with said lower ladder section whereby said plate is caused to slide upon movement of said ladder sections.

2,164,461
SCRAPER
Charles Le Bleu, Los Angeles, Calif.
Application February 19, 1937, Serial No. 126,629
15 Claims. (Cl. 37—126)



1. In a scraper, a main carrier, an auxiliary carrier open at both ends and disposed forwardly of the main carrier in operating relation thereto, a scraper disposed at the front end of each carrier for scraping up material, both carriers being adapted to discharge onto the ground, and common means applied to the carriers to cause same to discharge successively.

2,164,462
ROTARY INTERNAL COMBUSTION ENGINE
Jerrold D. Lutschg, Inglewood, Calif.
Application August 9, 1937, Serial No. 158,067
5 Claims. (Cl. 123—12)



1. The combination with an engine block having communicating substantially cylindrical chambers therein, of solid rotary pistons within the respective chambers and in substantially constant contact, each piston having an inner peripheral portion and an outer peripheral portion, the inner peripheral portion of each piston cooperating with the outer peripheral portion of the opposed piston, the inner peripheral portion of one of the pistons cooperating with the wall of its chamber to form a combustion chamber having a fuel mixture inlet, there being an exhaust port for communication with said combustion chamber when the piston therein is moved a predetermined distance following the combustion of a charge of fuel mixture, the inner periphery of the other piston cooperating with the wall of its chamber to create a suction and provide a fuel mixture intake chamber, there being a fuel mixture inlet and outlet adapted to communicate

with said fuel mixture chamber, one of the walls of said piston cooperating with the outer periphery of the opposed piston to place fuel mixture under compression within the fuel mixture chamber once only during each complete rotation of the pistons, a by-pass leading from the fuel mixture outlet of the fuel mixture chamber to the fuel mixture inlet of the combustion chamber and positioned to receive fuel mixture under compression, a valve at each of the ends of the by-pass, and means under control of the rotating pistons for opening and closing the by-pass at predetermined times in relation to the rotation of the pistons.

2,164,463
RANGE FINDER
Irwin E. Mather, Chicago, Ill.
Application August 19, 1937, Serial No. 159,809
7 Claims. (Cl. 33—64)



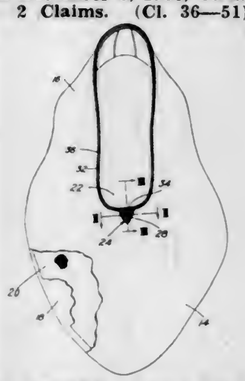
1. In a photographic range finder, the combination of a body member having a sight opening, a slide member movable with respect to said body member and provided with a sight opening, means secured to said body member for determining the distance said members shall be held from the eyes of the user, a pointer on one of said members, and a scale on the other of said members, said scale being graduated to read the distance of an object from the eyes of the user when the user observes said object with the line of sight to one eye passing through the sight opening of said body member, and the line of sight to the other eye passing through the sight opening in said slide member.

2,164,464
FASTENING MEANS
Arthur E. McNabb, Monessen, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application November 4, 1938, Serial No. 238,727
4 Claims. (Cl. 72—120)



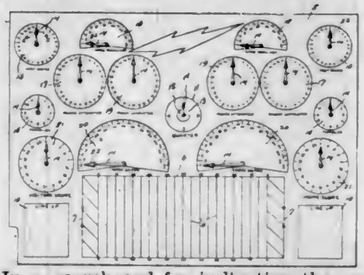
1. A wire clip for securing metal lath or the like to a furring support comprising an elongated wire body, a hook on one end of the body adapted to hook around the furring support, an eye on the other end of the body and through which the hook of the next clip is adapted to be passed so that one hook supports the ends of two adjacent clips, and means associated with the eye for temporarily holding the eye end of the body adjacent the fabric until the hook of the next clip can be passed through the eye.

2,164,465
SHOE WITH EXTENSIBLE UPPER MARGIN
Frank R. Merritt, Haverhill, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 3, 1936, Serial No. 114,031
2 Claims. (Cl. 36—51)



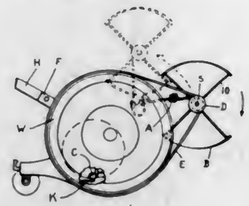
1. A shoe comprising a low-cut upper having in its throat portion a relief opening communicating with the foot opening in the upper and capable of expanding to accommodate movements of the foot, a lining having a portion underlying said relief opening, said portion having a slit extending downwardly from its upper edge substantially to the bottom of the relief opening, and a binding strip folded over the top edge of said upper and extending between the upper and the lining, a portion of said strip bridging said relief opening and being crimped to provide fullness permitting expansion of the latter, and the lining and the upper being secured together by a line of stitches extending parallel to the top edge of the upper and to the edge of said relief opening.

2,164,466
SCOREBOARD
Augie L. Montgomery, Waco, Tex.
Application June 29, 1936, Serial No. 88,039
2 Claims. (Cl. 116—120)



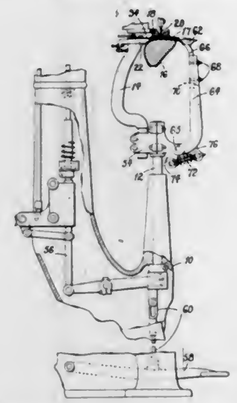
1. In a scoreboard for indicating the progress of a football game, an indicator for designating any one of a number of fixed periods in the game, said indicator comprising a stationary dial and a rotatable indicator including a disk having a quarter-segmental portion thereof removed to provide a notch and provided with a radially projecting pointer at one side of the notch formed by said removed quater-segmental portion, said dial having indicating numerals around the margin thereof outwardly of said disk and spaced apart a distance equal to the width of said notch at the outer edge of said disk.

2,164,467
LAWN MOWER ATTACHMENT
Lester F. Mulno, Lowell, Mass.
Application October 24, 1936, Serial No. 107,323
5 Claims. (Cl. 56—238)



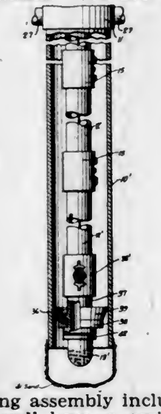
1. A rotary cutting attachment for lawn mowers having two wheels each with a flat rim and having a primary revolving cutting knife, a stationary cutting knife and a stay rod; said attachment including two arms each adjustable in length and each having a clamp at one end for attaching to the stay rod and a bearing at the other end for a secondary cutter drive shaft; a lengthwise adjustable secondary cutter drive shaft revoluble in the arm bearings and projecting through one bearing, such projection carrying a drive pulley with a flat rim and heads; a plurality of radial spokes carried by the drive shaft; and two thin, flexible cutting blades, each detachably attached near one end to the free end of a spoke.

2,164,468
FASTENING-INSERTING MACHINE
Alfred Neumann, St. Louis, Mo., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 23, 1937, Serial No. 181,329
7 Claims. (Cl. 1—41)



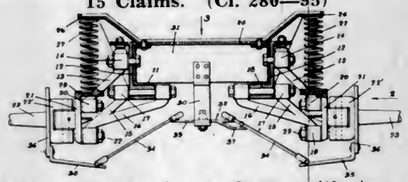
1. A fastening-inserting machine comprising a fastening-inserting tool, a horn movable heightwise of the machine thereby to present a shoe to the tool, a support on the horn constructed and arranged to enter the crease between the upper and sole of a shoe to support the shoe against the thrust of the tool, and a gage mounted upon the support for locating the shoe with the edge of the sole thereof in predetermined position laterally of the tool.

2,164,469
FLUID LIFT
Jeddy D. Nixon, Houston, Tex., assignor of one-half to Wilson Supply Company, Houston, Tex., a corporation of Texas
Application June 1, 1937, Serial No. 145,680
1 Claim. (Cl. 103—233)



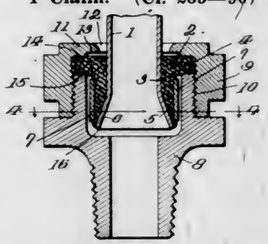
A well flowing assembly including, a well tubing within a well bore, a series of flow valves normally closed mounted in the tubing at successive elevations below the level of column of fluid standing in said tubing, a packer mounted on the lower end of said tubing, one of said valves being positioned in close proximity to said packer, so as to serve as a bleed valve, a device mounted to be lowered in said well for successively engaging the flow valves and positively opening each of said valves, and a flexible connection secured to the device for rapidly raising and lowering the same in said well.

2,164,470
ANTIVIBRATION SUSPENSION AND STEERING GEAR FOR VEHICLES
Charles Opolo, Culver City, Calif.
Application December 11, 1935, Serial No. 53,917
15 Claims. (Cl. 280—95)



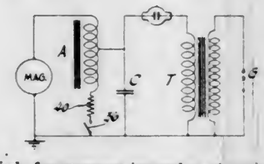
1. A vehicle having a frame with two side members, an upper arm on each side of the frame and having a transverse pivotal connection to a side member at an upper position thereon, two secondary and lower arms each transversely pivotally connected to a side member in a horizontal plane below the pivotal connection of the first arm, the secondary arms having an elongated pivot with at least one portion of the arm located between the side members and a portion of the lower arms extending underneath the side member, a knuckle bracket on each side of the frame, the upper and lower arms on each side having upper and lower pivotal connections to the knuckle bracket, each knuckle bracket having a steering knuckle and a wheel spindle connected thereto and a spring connection between the knuckle bracket and the vehicle frame, each spindle being located in a horizontal plane between the pivots of the arms to its knuckle bracket.

2,164,471
FLEXIBLE COUPLING FOR TUBES
Arthur L. Parker, Cleveland, Ohio
Application September 14, 1936, Serial No. 100,755
1 Claim. (Cl. 285—90)



A flexible coupling for tubes including metal coupling member having a recess therebetween adapted to receive the tapered end of a tube, a resilient sleeve surrounding the tube, said sleeve having a laterally projecting flange at the inner end thereof, a metal collar of substantially uniform diameter adapted to slip over the resilient sleeve, said metal collar extending from a point adjacent the projecting portion of the resilient sleeve to a point adjacent the inner end thereof and dimensioned so as to cause said resilient sleeve to firmly grip the tube end and provide a fluid-tight supporting engagement therewith when moved into engagement with the tapered end of the tube, said coupling members having means for contacting with and gripping said projecting flange of the resilient sleeve in a region spaced away from the body portion thereof, all of said parts being dimensioned so as to permit the projecting flange of the resilient sleeve to flex and the tube to shift to different angular positions in said coupling.

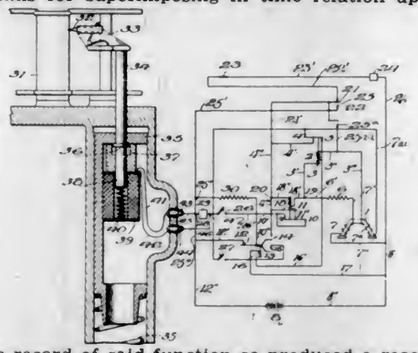
2,164,472
IGNITION SYSTEM WITH STABILIZER
Donald W. Randolph and Ralph H. Mitchel, Flint, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 21, 1936, Serial No. 106,718
25 Claims. (Cl. 123—179)



1. In a high frequency impulse circuit the combination of an alternating current generator, stabilizing means connected across the generator, a condenser in parallel with the stabilizing means, and a discharge circuit for the condenser comprising an electric valve adapted to break down upon application of a predetermined voltage.

2,164,473
APPARATUS AND METHOD FOR RECORDING RAILROAD SPEED SIGNAL OBSERVANCE
Lingan S. Randolph, Lexington, Va.
Application July 30, 1937, Serial No. 156,580
15 Claims. (Cl. 246—185)

12. Apparatus for determining the alertness of an engineman in responding to danger signals in a system of automatic train control, comprising means for recording one function of train operation pertaining to speed of the train, and means for superimposing in time relation upon



the record of said function so produced a record of the engineman's action in forestalling the actuation of an automatic braking system.

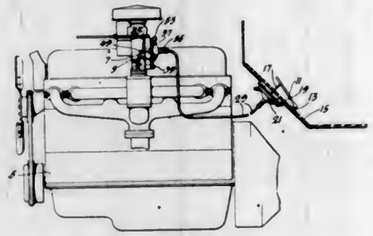
2,164,474
BRAKE HANGER
Frederic Schaefer, Pittsburgh, Pa.
Application March 8, 1938, Serial No. 194,596
2 Claims. (Cl. 188—209)



1. A brake hanger having a yoke adapted to be inserted in a bearing member, said yoke comprising a substantially horizontal body member of reduced vertical thickness having its inner surface arcuate in cross-section and joined to its outer surface by lateral connecting surfaces, and a wearing member of greater hardness than said body member and conforming in contour to said arcuate surface, the side edges of said wearing member being spaced from said lateral surfaces to form elongated recesses, and a weld disposed in each recess for securing said wearing member to said body member.

2,164,475
HYDRAULIC THROTTLE CONTROL
Eric Olle Schjolin, Pontiac, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 22, 1937, Serial No. 144,251
2 Claims. (Cl. 74—513)

1. For use with an engine having a throttle valve, an actuating means to move said valve, a remotely positioned throttle valve operating member, fluid transmission means between said actuating means and said member, said transmission means including a conduit, a first chambered member at one end of the conduit, said chambered member having a closure diaphragm and a stem, the stem adapted to be connected to said actuating means, and a second chambered



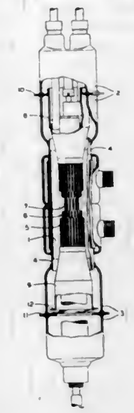
member at the other end of said conduit, said second chambered member being provided with a diaphragm and stem, the last named stem adapted to be moved by said member, the diaphragm of the first chambered member being more resistant to movement than the diaphragm of the second chambered member.

2,164,476
METHOD OF MAKING ABRASIVE ARTICLES BY MEANS OF PRECOATED GRAIN
Arthur G. Scutt, Niagara Falls, N. Y., assignor, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
No Drawing. Application March 15, 1935, Serial No. 11,318
6 Claims. (Cl. 51—278)

1. In a method of making an abrasive article comprising a resin and granules with surfaces of low adhesive characteristics with respect to said resin, the steps consisting in mixing the particles and a resin of the phenol formaldehyde condensation product type, setting the mixture under heat and at pressures sufficiently exceeding 5000 pounds per square inch to force the resin into any uneven portions of the surfaces of the particles, disintegrating the resulting mass and separating granules with adhering resin, mixing the last mentioned granules with a resin bond in sufficient amount to produce a substantially non-porous article on the application of high pressure, and molding the last mentioned mix under heat and pressure.

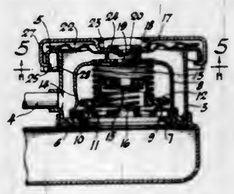
2,164,477
ELECTRODE SUPPORT
Philip T. Smith, East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application April 29, 1938, Serial No. 204,968
5 Claims. (Cl. 250—27.5)

1. In combination in an electron discharge device, an envelope, two electrode support means a fixed distance apart in said envelope, an electrode between said support means in said envelope, one end of said electrode being rigidly attached to one of the support means, means for resiliently attaching the other end of said electrode to the other support means for permitting free longitudinal expansion of the electrode and for preventing transverse displacement thereof comprising a plurality of flat spring-like fingers, each finger joined at one end to said other end of the



electrode, the remaining ends of said fingers being attached to said other support means.

2,164,478
RADIATOR PRESSURE CAP
Lucian B. Smith, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 9, 1937, Serial No. 119,740
8 Claims. (Cl. 220—24)

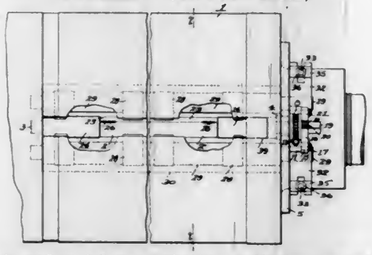


1. In a device of the character described, a spout closure cap having a depressed centrally positioned and apertured boss, a plug closing said aperture and riveted to the boss, a spring disc centrally secured to the boss by said riveted plug and a cage adapted to house and seat a pressure operated vent valve and swivelly mounted on said plug.

2,164,479
TREATMENT OF ARTIFICIAL SILK
Alfred E. Sunderland, Asheville, N. C., assignor to American Enka Corporation, Enka, N. C., a corporation of Delaware
No Drawing. Application January 5, 1937, Serial No. 119,160
9 Claims. (Cl. 28—1)

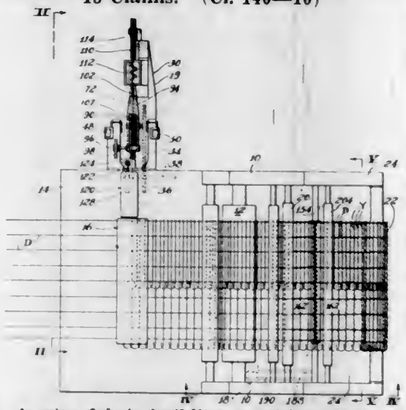
1. In the treatment of substantially water absorbent artificial silk threads for use in the manufacture of crepe effect fabrics, the step which comprises increasing the resistance of threads to radial torque by permanently impregnating the threads prior to their fabrication with an aqueous solution of a substance which is rendered insoluble after drying the threads, said solution having a concentration of less than one part of solute to five hundred parts of water.

2,164,480
BLANKET WINDING FOR A PRINTING CYLINDER
Isidor Tornberg, Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia
Original application May 18, 1936, Serial No. 80,295. Divided and this application December 31, 1936, Serial No. 118,520. Renewed November 25, 1938
5 Claims. (Cl. 101—415.1)



1. A reel rod for a printing cylinder, capable of winding up thereon a blanket or draw-sheet, and having one end loosely supported and the other end eccentrically mounted, and means for rotating said rod.

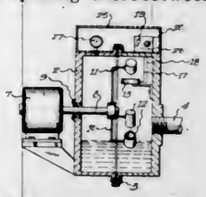
2,164,481
METHOD AND APPARATUS FOR MAKING WIRE FABRIC
James K. Watkins, Monessen, Pa., assignor to Pittsburgh Steel Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 12, 1938, Serial No. 195,555
15 Claims. (Cl. 140—10)



1. A wire fabric building machine of the type having means for supporting and feeding strand wires forward in parallel relation and means for securing stay wires thereto, characterized by means for crimping the stay wires in the plane of the fabric, and means for effecting relative movement between the plane of the fabric and the dies to position each stay wire between the dies for the crimping operation.

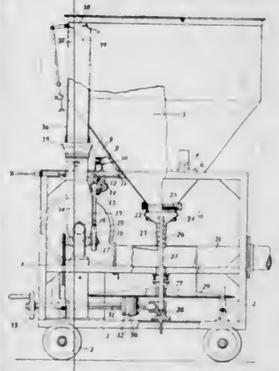
2,164,482
ELECTRIC STEAM GENERATOR
Glenn W. Watson, Detroit, Mich.
Application January 16, 1939, Serial No. 251,203
2 Claims. (Cl. 219—40)

1. The method of generating steam consisting in delivering liquid to spaced and insulated conducting members divided into two series, each series being connected to a different side of an electric circuit, and regulating the length of said members, the spacing therebetween, the volume



of current and the rate of liquid delivery, relatively to each other, so that the liquid establishes a current path between adjacent members of the two series and generates steam before there is any substantial accumulation of liquid.

2,164,483
FEED HOPPER FOR PULVERIZED MATERIALS
James Watson, West Monkseaton, and Harold Thomas Lamb, Newcastle-on-Tyne, England
Application December 13, 1937, Serial No. 179,548
In Great Britain December 30, 1936
6 Claims. (Cl. 302—56)

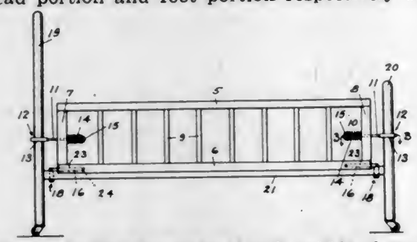


1. Feed mechanism for plants for handling pulverized materials comprising a rockable feed hopper and means for rocking said hopper, a blast tube into which the material is to be fed, a discharge orifice on said hopper, a bellows connecting said discharge orifice with said blast tube, so that rocking of said hopper flexes said bellows and causes a kind of pumping action which aerates and maintains the material about the discharge tube in its pulverulent condition.

2,164,484
DETACHABLE SIDE PANEL FOR BEDS
Joseph A. Wolfe, Seattle, Wash.
Application March 10, 1937, Serial No. 130,038
2 Claims. (Cl. 5—331)

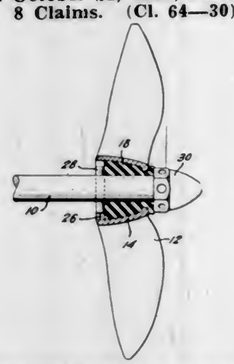
1. In a readily attachable and detachable side panel for a bed, a substantially rectangular panel member; two bed rail engaging members longitudinally adjustably connected with said panel member adjacent the lowermost corners of said panel member adapted to engage with and rest upon a side rail of a bed adjacent the respective foot and head portions of the bed; two hook members longitudinally adjustably connected with the respective end portions of the panel

above the bed rail engaging members and positioned to engage with the upright posts at the head portion and foot portion respectively of a



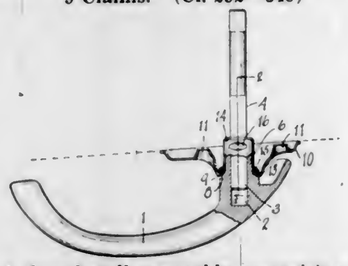
bed; and springs connected with said hook members permitting outward movement of said hook members and yieldingly urging said hook members into retracted position.

2,164,485
SLIP CLUTCH DEVICE
Roy C. Yantis, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 21, 1938, Serial No. 236,255
8 Claims. (Cl. 64—30)



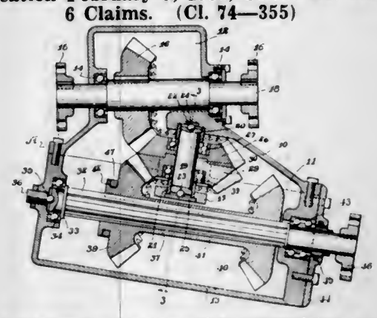
3. A torque transmission device consisting of, a member of rubber-like material and a metallic member for normally engaging the rubber-like member, said rubber-like member being so constructed and of sufficient resilience to slip with respect to the metallic member when the torque load is excessive, and to reengage therewith when the load is reduced.

2,164,486
DOOR HANDLE ASSEMBLY
Michael B. Andrie, Grand Rapids, Mich., assignor to W. B. Jarvis Company, Grand Rapids, Mich.
Application May 31, 1938, Serial No. 210,915
9 Claims. (Cl. 292—349)



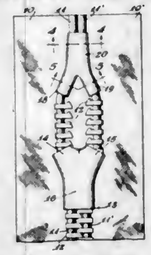
1. A door handle assembly comprising a handle member having a reduced recessed shank and an inclined annular shoulder, a door spindle telescopingly engageable with the shank and having locking notches therein, ar escutcheon telescopingly engageable on said shank and having an inturned annular flange abutting said shoulder, an angled spring thrust washer engageable on the shank in nested relation to the flange, and a retaining sleeve engageable on the shank, said sleeve having an out-turned flange for end engagement with said washer to compress the same, said sleeve and shank being deformed adjacent said notches for locking engagement therewith to hold the spindle, handle and escutcheon in assembled position.

2,164,487
TRANSMISSION
William E. Beckjord, St. Paul, Minn.
Application February 9, 1938, Serial No. 189,619
6 Claims. (Cl. 74—355)



1. A transmission assembly comprising a case, a drive shaft extending through said case, a driven shaft extending through said case in oblique relation with respect to the drive shaft, a countershaft between the drive and driven shafts, beveled gears on the countershaft, a beveled gear on the drive shaft meshing with one of the beveled gears on the countershaft, and a beveled gear on the driven shaft meshing with the remaining beveled gear on the countershaft, said countershaft being supported on internal extensions of said case.

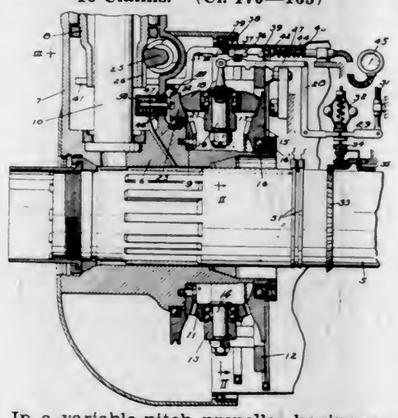
2,164,488
TOP STOP FOR SLIDE FASTENERS
Walter A. Behrens, New York, N. Y., assignor to Ideal Fastener Corporation, Brooklyn, N. Y., a corporation of New York
Application April 30, 1938, Serial No. 205,236
5 Claims. (Cl. 24—205)



5. In a slide fastener assembly, incorporating opposing stringers comprising tapes having depending beads at the edges thereof, fastener elements mounted in spaced relationship along said beads; and a slider acting on said fastener elements to interlock or separate the same, a top stop for said stringers comprising a Y-shaped member providing diverging arms leading to a merging stem, the arms being adapted to envelope

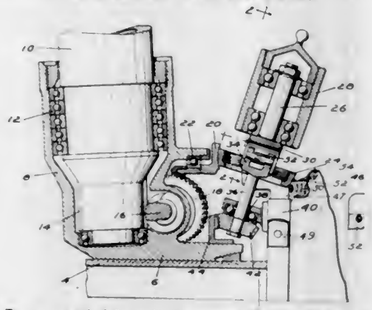
the respective beads of the tapes and lead the same into the stem, said stem being adapted to envelope both beads in adjacency and parallelism.

2,164,489
VARIABLE PITCH PROPELLER
Henry A. Berliner, Washington, D. C., assignor, by mesne assignments, to Engineering and Research Corporation, Riverdale, Md., a corporation of Maryland
Application July 27, 1936, Serial No. 92,823
16 Claims. (Cl. 170—163)



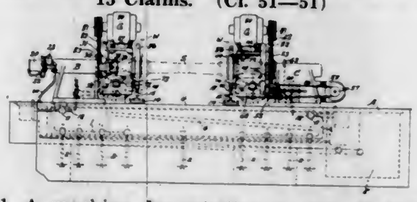
1. In a variable pitch propeller having a propeller shaft and a blade adjustably carried by said shaft, pitch changing mechanism comprising a transmission having a driving member driven by and in the same direction as said propeller shaft and an annular driven member concentric with the propeller shaft and driven in the opposite direction, a second transmission driven by said driven member and having a second annular driven member concentric with the propeller shaft and rotating in the same direction as the propeller shaft, means operated by said second driven member to adjust the blade pitch, and means to vary the ratio of one of said transmissions.

2,164,490
VARIABLE PITCH PROPELLER
Henry A. Berliner, Washington, D. C., assignor, by mesne assignments, to Engineering and Research Corporation, Riverdale, Md., a corporation of Maryland
Application December 3, 1936, Serial No. 113,964
8 Claims. (Cl. 170—163)



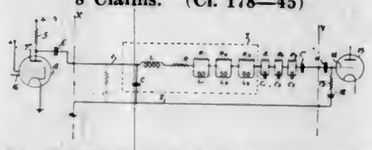
1. In a variable pitch propeller having a propeller shaft and a blade, pitch changing mechanism comprising a ring gear driven by the propeller shaft, a pinion meshing with said ring gear and driven thereby, a shaft secured to said pinion, a fixed bearing supporting said shaft, a universal joint driven by said shaft, a traction roller driven by said universal joint, an annular disc surrounding the propeller shaft and having toroidal surface engaging the edge of said roller, a worm engaging the propeller blade, means connecting said worm to said disc to be driven thereby, and means to adjust said roller thereby to change the angle of the blade.

2,164,491
WHEEL GRINDING MACHINE
William T. Bitler, Morris S. Evans, and Ray P. McBride, Berwick, Pa., assignors to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application May 17, 1938, Serial No. 208,476
15 Claims. (Cl. 51—51)



1. A machine for grinding a pair of wheels when mounted upon an axle comprising in combination, a tailstock having a center shiftable relative thereto, a headstock provided with a center located substantially in alignment with the axis of a rotatable gear carried by the headstock, power means to drive the rotatable gear, fluid pressure means to shift the tailstock center toward the headstock center to lift the wheels and axle and support the same with the axle axis substantially in alignment with the axis of said centers, means providing a driving engagement between the gear and at least one of the wheels whereby said power means may rotate the wheels and axle about the axle axis, grinding means engageable with the rotating wheels to grind the same, and means carried adjacent said tailstock center to pull the wheels and axle clear of the headstock center after the grinding of the wheels, said last named means being operable by said fluid pressure means.

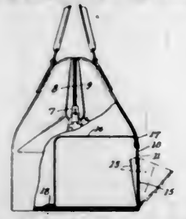
2,164,492
ELECTRIC SIGNAL TRANSMISSION LINE
Alan Dower Blumlein, Ealing, London, and John Hardwick, West Drayton, England, assignors to Electrical & Musical Industries Limited, Hayes, Middlesx, England, a company of Great Britain
Application March 4, 1936, Serial No. 67,048
In Great Britain March 7, 1935
8 Claims. (Cl. 178—45)



1. An electrical signal transmission system comprising a transmission line and loading means, said line simulating a smooth line over a working frequency range extending to limiting frequencies at which the attenuation and

wave velocity depart from uniformity due to the finite values of the series resistance and shunt leakance of said line, said loading means comprising resistance and reactance elements, said elements being equivalent electrically to a condenser in series with said line and shunted by a resistance and having magnitudes such as to compensate for said finite resistance and leakance values, thereby preventing the attenuation and wave velocity to depart substantially from uniformity in the neighbourhood of said limiting frequencies.

2,164,493
TRAVELING BAG
Daniel R. Branen, New York, N. Y.
Application October 29, 1938, Serial No. 237,657
1 Claim. (Cl. 190—52)



A traveling bag having connected bottom and side walls, one side wall comprising upper and lower side wall portions separated on a line from end-to-end of the bag and above the bottom of the bag, said lower side wall portion being hingedly connected along its lower edge with the bottom of the bag and having a gusset connection at least at one end for enabling said lower portion of the side wall to hinge along the line of connection with the bottom outwardly and downwardly for free insertion and removal of articles through said side wall, a flexible partition providing a collapsible compartment within and from end-to-end of the bag, said partition having an upper edge connected with the upper portion of said side wall above the line of separation between said upper and lower portions, said flexible partition having an opposite lower edge connected with the bottom of the bag on a line inwardly of said hinging lower side wall portion and said flexible partition being free at its ends and of such a length as to enable said flexible partition when not in use to be collapsed down over the bottom and against the inside face of said separated side wall portions and means for releasably securing the upper edge of said hinging lower side wall portion to the lower edge of said upper side wall portion.

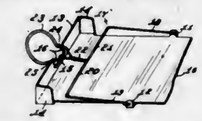
2,164,494
OIL, GREASE, AND HYDROCARBON RESISTANT MATERIAL
Kenneth R. Brown, Tamaqua, Pa., and Edmond H. Bucy, Stamford, Conn., assignors to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 21, 1936, Serial No. 112,014
2 Claims. (Cl. 91—68)

1. An oil, grease and hydrocarbon-resistant fibrous material comprising a fibrous base provided with two superimposed flexible coatings, the first coating which is in contact with the fibrous base being highly resistant to moisture and consisting essentially of a plasticized cellulose derivative, and the second coating which is superimposed over said first coating and which is to be exposed to oil, grease or hydrocarbon being highly resistant to oils, greases and hydrocarbons and consisting essentially of a water-miscible organic binder selected from the group consisting of protein glues and water soluble gums flexibilized with a polyhydric alcohol flexibilizer containing at least 50% of sorbitol.

2,164,495
OIL, GREASE, AND HYDROCARBON RESISTANT MATERIAL
Kenneth R. Brown, Tamaqua, Pa., assignor to Atlas Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 19, 1936, Serial No. 116,825
1 Claim. (Cl. 91—68)

An oil, grease and hydrocarbon-resistant fibrous material comprising a fibrous base provided with two superimposed flexible coatings, the first coating which is in contact with the fibrous base being highly resistant to moisture and consisting essentially of a plasticized cellulose derivative, and the second coating which is superimposed over said first coating and which is to be exposed to oil, grease or hydrocarbon being highly resistant to oils, greases and hydrocarbons and consisting essentially of a water-miscible organic binder selected from the group consisting of protein glues and water-soluble gums flexibilized with substantially an equal amount of a flexibilizer containing at least 50% of water-soluble sugar, said flexibilizer being selected from the group consisting of water-soluble sugars and polyhydric alcohols.

2,164,496
LOOSE LEAF BINDER
Raymond S. Brown, Columbus, Ind.
Application November 25, 1936, Serial No. 112,684
17 Claims. (Cl. 129—35)

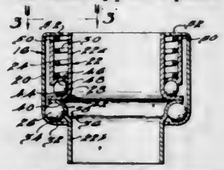


1. A loose-leaf binder comprising a base for supporting a sheaf of sheets, and a spring wire bail comprising at least one leg pivoted on a lateral edge of said base intermediate the ends thereof and a transverse bar projecting from the free end of said leg toward the opposite edge of said base, a finger lever projecting from said bar substantially parallel with said leg, and means cooperable with said finger lever for holding the latter in a position in which said bar is pressed against the face of said sheaf under torsional stress while said leg and said finger lever are subjected to bending stress.

2,164,497
STEERING COLUMN BUSHING
Jess D. Chamberlin, Detroit, Mich.
Application July 5, 1938, Serial No. 217,438
6 Claims. (Cl. 308—197)

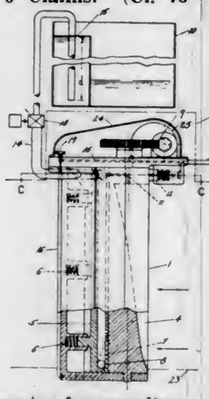
1. In a bushing for use between the shaft and mast jacket of a vehicle steering gear, in combination, an inner sleeve member and an outer sleeve member, one of said sleeve members being provided with a pair of oppositely facing raceways, the other of said sleeve members having a raceway lying in opposed relationship with respect to one of said pair of raceways, an intermediate member providing a fourth raceway in

opposed relation with respect to the remaining of said pair of raceways, anti-friction elements positioned between each opposed pairs of said race-



ways, and means constantly urging said intermediate member in a direction to cause said raceways to resiliently grip said anti-friction elements therebetween.

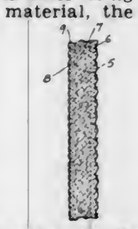
2,164,498
APPARATUS FOR SAMPLING LIQUIDS
James d'A. Clark, Swarthmore, Pa.
Application July 26, 1935, Serial No. 33,311
6 Claims. (Cl. 73—21)



1. An apparatus for sampling a stream of liquid whose rate of flow is a known function of its level comprising a container element positioned at a fired depth in said stream which container is slotted or hollowed out in such a way that irrespective of the level of the said stream it encloses a sample of the liquid the upper surface of which coincides with the surface level of said stream and whose volume is equal to a constant multiplied by the rate of flow of said stream and means for periodically connecting the sample so contained to a discharge pipe and discharging the sample into a vessel.

2,164,499
FABRIC
Thomas B. Coughlin, Framingham Center, Mass., assignor, by mesne assignments, to Harry L. Bernstein and James A. Riley, copartners trading as J. A. Riley & Co., New York, N. Y.
Application June 29, 1936, Serial No. 88,015
2 Claims. (Cl. 154—46)

1. A flexible and pliable composite fabric suitable for use in the manufacture of articles of apparel consisting of a pair of outer layers of flexible and pliable textile fabric, and a filler between said layers, the filler comprising a soft, flexible, pliable and resilient packing of intertwined and loosely matted uncarded textile fibres, the filler being coextensive with said outer layers and being secured to said outer layers by cementitious material, at least one of the layers being waterproofed by said cementitious material, the interior of said filler being substantially free of cementitious material, the fibres of said filler

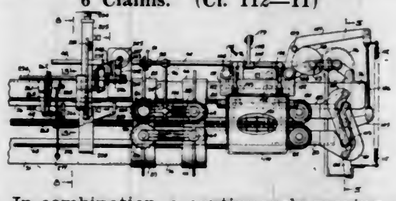


being held together by frictional contact and their intertwining relationship.

2,164,500
SILICEOUS PRODUCT AND METHOD OF MAKING THE SAME
Arthur B. Cummins and Lewis B. Miller, Plainfield, N. J., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
No Drawing. Application November 29, 1935, Serial No. 52,184
4 Claims. (Cl. 252—2)

4. A process of manufacturing a powdered diatomaceous earth product suitable for use as a filter-aid, filler and other purposes which comprises forming a mixture of finely divided diatomaceous earth with a relatively small amount of a non-metallic acidic flux selected from the group consisting of hydrofluosilicic acid and a boric acid not in excess of about 10% by weight of the diatomaceous earth, calcining the mixture so as to cause interaction of said flux and diatomaceous earth, but not sufficient to bring about the formation of hard, burnt granules.

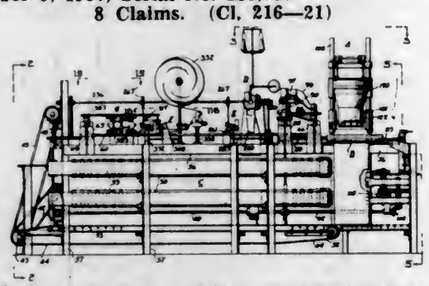
2,164,501
APPARATUS FOR FILLING, SEWING, AND SEALING BAGS
Robert N. Cundall, deceased, late of Lackawanna, N. Y., by Luta L. Cundall, administratrix, Lackawanna, N. Y., and Lincoln A. Cundall, Rochester, N. Y., assignors to Bagpak, Inc., New York, N. Y., a corporation of Delaware
Original application April 14, 1933, Serial No. 666,114. Divided and this application September 9, 1937, Serial No. 163,046
6 Claims. (Cl. 112—11)



3. In combination, a continuously moving conveyor for progressing upright filled open-mouth heavy-duty paper bags comprising means to rigidly grip the collapsed sides of the bags above the contents thereof as they are being progressed so that their mouths project above the conveyor, a device for presenting said bags to said conveyor with their mouths in definite alignment, a sewing machine mounted above said conveyor comprising stitching mechanism intermittently engaging the bag mouths to stitch the projecting mouths of the bags as they are progressed by said conveyor and to form a chain of stitches joining adjacent bag mouths, a pivotal mounting for said sewing machine to permit rocking thereof in the direction of travel of the bags in synchronism with the intermittent engagements of the stitching mechanism with the continuously moving bag

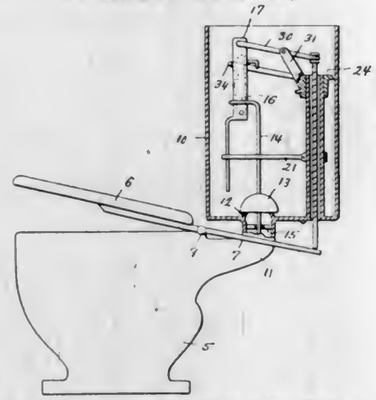
mouths, mechanism to fold a continuous gummed tape over the mouths of the bags as they are progressed by said conveyor from said sewing machine in position to seal the mouths of the bags and to cover the previously applied stitches, said tape extending between said adjacent bag mouths, and cutting means acuated by each of said bags as they are progressed by said conveyor, said cutting means operating to sever the tape and stitches extending between adjacent bag mouths.

2,164,502
APPARATUS FOR CLOSING AND SEALING FILLED BAGS
Robert N. Cundall, deceased, late of Lackawanna, N. Y., by Luta L. Cundall, administratrix, Lackawanna, N. Y., and Lincoln A. Cundall, Rochester, N. Y., assignors to Bagpak, Inc., New York, N. Y., a corporation of Delaware
Original application April 14, 1933, Serial No. 666,114. Divided and this application September 9, 1937, Serial No. 163,047
8 Claims. (Cl. 216—21)



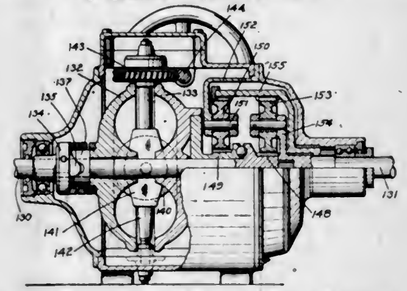
6. In a closing machine, compression means comprising juxtaposed rolls, means resiliently pressing said rolls together, means for supplying a folded strip to said rolls with bag mouths within the fold of the strip, means for driving said rolls so that juxtaposed surfaces against said strip move in the same direction at substantially the same velocity and means for separating the rolls against the force resiliently holding them together.

2,164,503
WATER CLOSET FLUSHING APPARATUS
Numa J. Desroche, Reserve, La., assignor to Gladys Mae Desroche, Reserve, La.
Application April 12, 1938, Serial No. 201,627
4 Claims. (Cl. 4—59)



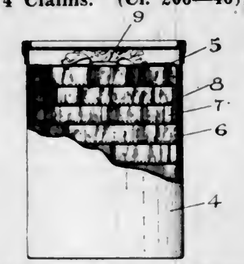
1. In a device of the class described, a flush tank, means connecting said tank to a bowl and including a valve means having a stem located in the tank and provided with a latch engaging end, a tube in the tank and extending through one wall thereof, a spring influenced rod in the tube and operated by movements of a seat on the bowl, a channel member slidable in the tank and engaged by said end of the stem, means connecting said member to said rod for movement thereby, a pivoted latch carried by said member engaged by said end of the stem to cause movement thereof with the member during sliding movement of the latter in one direction, and means for freeing said latch from said end of the stem after a predetermined movement of the channel member.

2,164,504
VARIABLE SPEED TRANSMISSION
Adiel Y. Dodge, South Bend, Ind.
Application July 5, 1935, Serial No. 29,797
8 Claims. (Cl. 74—284)



1. A transmission comprising a friction toroidal unit including angularly adjustable rollers, a gear chain connected to said toroidal unit and including a plurality of elements, clutch members on two of said elements, brake means for holding one or another of said elements stationary, a drive shaft having a clutch member adapted to engage one or the other of said first mentioned clutch members, and a single control means for adjusting said rollers, actuating said brake means and shifting said last named clutch member.

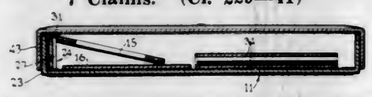
2,164,505
PACKAGING
David H. Edwards, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application April 5, 1937, Serial No. 135,064
4 Claims. (Cl. 206—46)



1. A package comprising a moistureproof container and a plurality of superimposed flat bottomed trays therein, said trays containing hollow shrinkable hydrated gel pellicles and a moistening solution therefor, said moistening solution

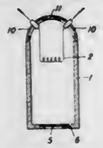
containing a softner for the pellicle, the said pellicles being partially immersed in said solution and upright with a bottom portion resting on the tray bottom whereby said pellicles are kept in an unimpaired moist gel condition.

2,164,506
CONTAINER
Henry A. Enrich, New York, N. Y.
Application June 9, 1937, Serial No. 147,236
7 Claims. (Cl. 229—41)



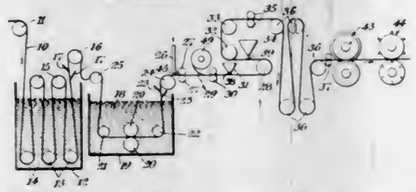
1. A closet box comprising a base having a bottom wall, a front wall and rear wall, and side walls, said front wall having vertical grooves at the ends thereof, and a member comprising a rear wall, and side walls, constituting the rear and side walls of said box, mounted on the base in contact with the inner surfaces of the rear and side walls of said base, the bottom ends of the front edges of the side walls of said member being received within said grooves, a front wall for the box hinged to the front wall of the base, and a cover on the upper edges of the front, side and rear walls of the box.

2,164,507
DISCHARGE TUBE
Werner Espe, Siemensstadt, Berlin, Germany, assignor to Siemens and Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a German company
Application July 3, 1936, Serial No. 88,757
In Germany September 19, 1935
9 Claims. (Cl. 250—27.5)



5. An electron discharge device comprising a cylindrical enclosing vessel of ceramic material having a window-type aperture therein, a metallic electrode sealed in said aperture flush with the exterior wall of said vessel, an electron emitter within said vessel, and terminals for said emitter sealed in the wall of said vessel.

2,164,508
METHOD OF MAKING A SIDING STRIP
George Arthur Fasold, Cincinnati, Ohio, assignor to The Philip Carey Manufacturing Company, a corporation of Ohio
Application August 24, 1933, Serial No. 686,491
3 Claims. (Cl. 154—2)



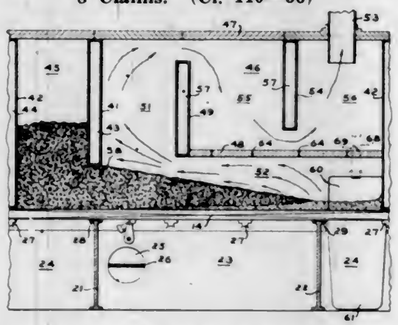
1. A method of making siding strip which comprises saturating a web material with a bituminous saturant, immersing the web of material in a bath of bituminous coating material having a higher softening point than said saturant, compressing the web to devoid same and permitting it to expand while submerged in said bituminous coating material thereby impregnating said web with a continuous uniform layer of substantial depth in said felt of said coating material, removing excess coating material from the surface of said web, applying adherently to said coating material while it is adhesive a paper having a substantially non-adhesive outer surface, applying adherently to said coating material which is not covered by said paper while it is adhesive a granular material, and cutting said web into strips having granular material along and adjacent the surface of the margin thereof and having paper along and adjacent the surface of the other margin thereof.

2,164,509
COMBUSTION TRAIN ELEMENT AND FUSE FOR BLASTING AND PYROTECHNIC AND THE LIKE PURPOSES, AND METHOD OF PREPARATION THEREOF
James Sinton Bruce Fleming, Ardrossan, and Russell Charrosin Payn, Saltcoats, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application August 14, 1936, Serial No. 96,118. In Great Britain August 21, 1935
11 Claims. (Cl. 52—17)

1. A process of preparing combustion train elements, which comprises suspending a black powder composition in an aqueous medium saturated with respect to the water-soluble components of said composition, agitating said suspension with a relatively small proportion of a fibrillated cellulose bonding material, and removing said aqueous medium to form a felt.

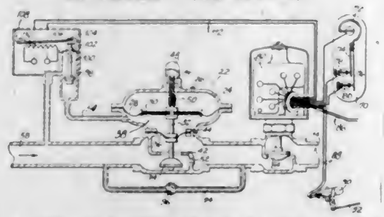
5. A combustion train element consisting of a coherent felt of burning speed lower than 250 seconds per yard, which felt comprises a black powder composition intermingled with a fibrillated cellulose bonding material.

2,164,510
COMBUSTION APPARATUS
Robert A. Foresman, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 14, 1935, Serial No. 26,600
8 Claims. (Cl. 110—36)



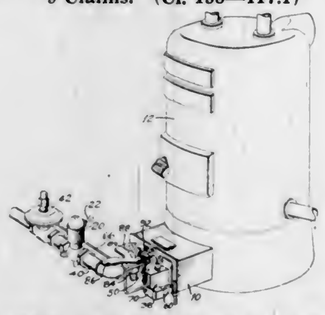
1. The method of burning fuel in a combustion chamber which includes admitting a bed of fuel of predetermined thickness to the chamber, progressively burning the fuel as it is advanced through the chamber so that the thickness of the fuel bed in the chamber and the resistance to the flow of air through the bed progressively diminish toward the region of complete combustion, establishing pressures in the chamber above the fuel bed which increase progressively from adjacent the portion of the fuel bed of maximum thickness toward the portion of minimum thickness, said pressures increasing proportionately as the resistance of the fuel to air flow decreases, and supplying air beneath the fuel bed at a pressure in excess of the highest pressure above the fuel bed so that the flow of air through the fuel bed is substantially uniform throughout its length.

2,164,511
HEATING SYSTEM
Francis A. Furlong, Chicago, Ill., assignor to Autogas Corporation, Chicago, Ill., a corporation of Delaware
Application March 2, 1934, Serial No. 713,666
14 Claims. (Cl. 236—1)



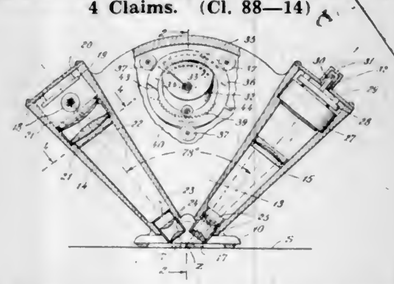
12. A heating system having a fuel supply comprising a passage provided with a valve which is opening and shut to give an on and off control, means responsive to the temperature of the space to be heated to control the operation of said valve, said passage being connected in series with two parallel passages, a valve in one of said last named passages, and temperature responsive means to control operation of said valve to give high and low control.

2,164,512
HEATING SYSTEM
Francis A. Furlong, River Forest, Ill., assignor to Autogas Corporation, Chicago, Ill., a corporation of Delaware
Application June 1, 1936, Serial No. 82,786
9 Claims. (Cl. 158—117.1)



8. A heater comprising a main burner having a main fuel control valve, a pilot burner associated therewith and having a separate fuel control valve, a lighter operatively associated with the pilot burner to light the same, a handle for said main valve having a control plate formed with an interlocking recess and cut away at one side, a guard which in one position prevents operation of the lighter, a plunger held in a first position preventing movement of said guard from its said one position by said plate when the plate is in a position to cover said separate pilot fuel control valve and to open said main valve and which is shifted to a second position releasing the guard and interlocking with said recess to lock the plate in a position affordng access through said cutaway side to said separate pilot fuel control valve when the main valve is closed, and means holding said plunger in its first position for a substantial time interval after the valve is turned off before it shifts to said second position, said plunger having a spring urging it from its first toward its second postion and said last-named means being constructed and arranged to resist movement of the plunger from first to second position and not to resist manual depression of the plunger from second to first position.

2,164,513
OPTICAL CONTRAST METER
Arthur H. Gaebel, Larchmont, N. Y.
Application August 25, 1936, Serial No. 97,726
4 Claims. (Cl. 88—14)

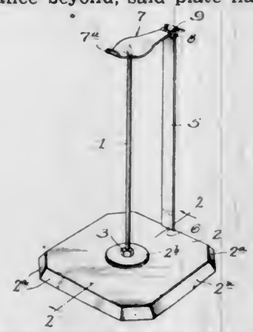


1. In an optical contrast meter, the combination of a support, means mounted on said support for directing a beam of light upon and at an acute angle to a surface, a photo-electric cell, means also mounted on said support and inclined with respect to said surface for directing a reflected portion of the beam of light upon the photo-electric cell, a meter actuated by said photo-electric cell having an element with a graduated scale and a pointer movable across the scale from zero to maximum, such deflection corresponding to the amount of light reflected by said surface, said zero and maximum deflections corresponding to the reflecting power of carbon black and freshly scraped magnesium carbonate, respectively, a member carried by said support having an identically graduated scale, said member being associated with and adapted to be registered with the first scale, and means for moving said member with respect to said first scale to align the graduations of the two scales at any desired setting to afford direct determination of the differences in reflecting power of different portions of said surface.

2,164,514
FILING SPINDLE
Charles Goldstein, Chicago, Ill.
Application November 26, 1937, Serial No. 176,420
2 Claims. (Cl. 129—23)

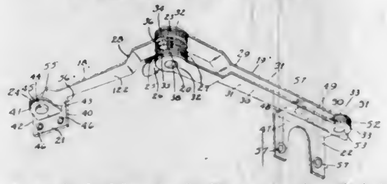
1. A filing device comprising a vertical spindle, a base for said spindle, a standard mounted on said base and offset from said spindle, and a guard for the end of said spindle consisting of a flat plate having hinged connection with said standard and adapted normally to rest in sub-

stantially horizontal position on the end of said spindle with its free end portion projecting a short distance beyond, said plate having a por-



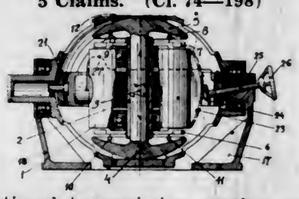
tion projecting from its point of hinged connection and adapted to contact said standard for limiting its upward swinging movement.

2,164,515
SASH HOLDER
Chester O. Goserud, St. Paul, Minn.
Original application August 24, 1933, Serial No. 686,546. Divided and this application September 5, 1936, Serial No. 99,535
9 Claims. (Cl. 292—263)



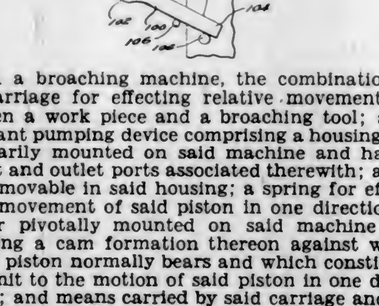
1. A sash holder including a pair of jointed arms, said arms being each formed with spaced hinge leaves, friction washers between the leaves of each arm, a bolt extending jointly through all of said leaves and washers, and a compression coil spring extending between the innermost of the leaves and creating friction between said leaves and washers.

2,164,516
FRICTIONAL TRANSMISSION GEARING
Frantisek Götz, Prague, Czechoslovakia, assignor to the firm Limited Company formerly The Skoda Works, Pilsen, Prague, Czechoslovakia
Application February 16, 1937, Serial No. 125,973
In Czechoslovakia February 25, 1936
5 Claims. (Cl. 74—198)



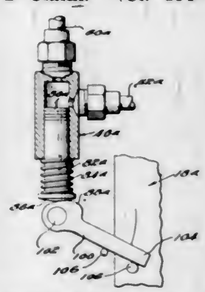
1. Frictional transmission gearing comprising in combination a rotary friction shell, a hollow shaft mounted for rotary and swivelling movement in the said shell, two variably spaced convex friction elements disposed one at each end of the said shaft and guided therein and adapted to co-act with the inside surface of the said shell for frictional power transmission, and means for pressing the said convex friction elements axially away from each other against the inside wall of the shell.

2,164,517
CARTON
Herman L. Greve, Hollis, N. Y., assignor to International Mailing Tube and Wrapper Company, Long Island City, N. Y.
Application September 16, 1937, Serial No. 164,103
8 Claims. (Cl. 229—36)



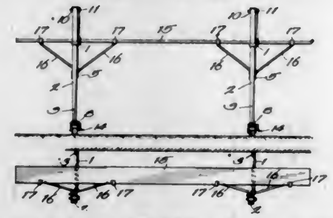
1. A carton of the character described comprising a body portion having inner interlocked side portions an end of one of which is folded upon itself and secured in fixed relation to provide a brace extending from the lower to the upper side of said side portion.

2,164,518
MEANS OF LUBRICATING WAYS
William A. Hart, Detroit, Mich., assignor to Colonial Broach Company, a corporation of Michigan
Application April 13, 1936, Serial No. 74,124
1 Claim. (Cl. 184—6)



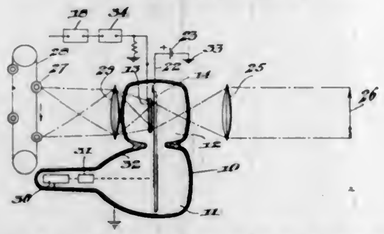
In a broaching machine, the combination of a carriage for effecting relative movement between a work piece and a broaching tool; a lubricant pumping device comprising a housing stationarily mounted on said machine and having inlet and outlet ports associated therewith; a piston movable in said housing; a spring for effecting movement of said piston in one direction; a lever pivotally mounted on said machine and having a cam formation thereon against which said piston normally bears and which constitutes a limit to the motion of said piston in one direction; and means carried by said carriage and engageable with said lever to pivot the same and render said cam effective to move said piston within said housing in an opposite direction against the force of said spring.

2,164,519
SCAFFOLDING
Richard C. Hayner, Bloomington, Ill.
Application April 20, 1938, Serial No. 203,004
1 Claim. (Cl. 304—30)



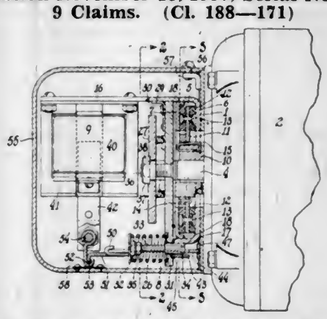
An adjustable scaffolding brace including a horizontal member having a wall engaging roller at one end with the other end bent back upon itself to embrace a standard and mounting a roller to engage the outer side of the embraced standard with an angular brace pivoted thereto adjacent the roller carrying end, said brace being forked at the free end and mounting a roller adapted to embrace the standard with the roller in engagement with the inner side thereof and having a strap pivoted thereon adjacent the forked end provided with means to engage the under side of the horizontal member and provided with means extending above the said member for engagement with means for raising and lowering the bracket upon the standard, wherein said lateral braces are pivoted to the angular brace adjacent its forked free end having board clamps pivotally mounted upon their free ends.

2,164,520
ELECTRICAL IMAGE TRANSMISSION
François Charles Pierre Henroteau, Esneux, Liege, Belgium, assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application September 3, 1935, Serial No. 39,075
In Great Britain September 4, 1934
10 Claims. (Cl. 178—7.2)



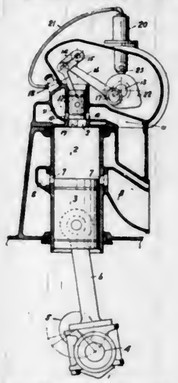
1. In a television system wherein is provided a multiplicity of mutually insulated photosensitive elements arranged in a plane together with a plurality of photosensitized areas closely adjacent to the photosensitive elements, the method of electrical image transmission which comprises the steps of projecting an image on the multiplicity of mutually insulated photosensitive elements arranged in a plane so that the potentials of such elements are changed in accordance with the light intensities of corresponding areas of the image, electronically reducing from a predetermined initial value the potential of the photosensitized areas sequentially, optically ejecting electrons from the photosensitized areas, restoring the initial potential of the photosensitive elements by the optically ejected electrons, and varying the flow of electrical energy through a transmitting device in accordance with the successive potential changes resulting from such restoration.

2,164,521
ELECTROMAGNETIC BRAKE
Howard E. Hodgson, Wauwatosa, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 18, 1937, Serial No. 175,225
9 Claims. (Cl. 188—171)



1. An electromagnetic brake comprising a rotatable braking element, a pair of non-rotatable braking elements arranged on opposite sides of said former element, one of said non-rotatable braking elements being fixed and the other being movable toward and away from said fixed braking element, a pivoted lever arranged to one side of said braking elements, a pressure plate adjustably mounted upon said lever and having thrust parts associated therewith for engaging said last mentioned non-rotatable braking element to move the same toward said first mentioned non-rotatable braking element, a spring associated with said lever for biasing the same in a direction to effect engagement of said braking elements, and an operating solenoid for moving said lever against the action of said spring for release of said braking element.

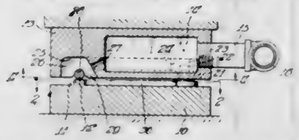
2,164,522
INTERNAL COMBUSTION ENGINE
Cecil D. Howard, Swarthmore, Pa., assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa., a corporation of Pennsylvania
Application January 22, 1938, Serial No. 186,386
3 Claims. (Cl. 123—41)



1. In an internal combustion engine, in combination, a working cylinder, a working piston, a main crank shaft, means operably connecting said piston and main crank shaft, a passage communicating with the interior of the cylinder, a

valve adapted for the control of said passage, a fuel nozzle let into said cylinder, a second shaft, means affording a driving connection between said main crank shaft and said second shaft, means affording an operating connection between said second shaft and said valve, a fuel pump positioned adjacent said second shaft, means carried by said second shaft for actuating said fuel pump, a conduit affording communication between said fuel pump and said fuel nozzle, means for rotating said second shaft independently of said main crank shaft to simultaneously change the timing of the valve and fuel pump so that the engine will run in reverse direction.

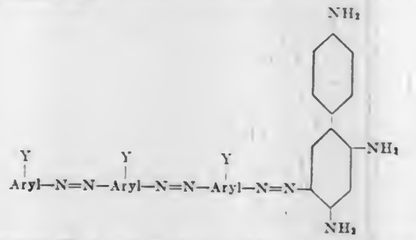
2,164,523
FORMING METAL PARTS
Roy C. Ingersoll, Oak Park, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 14, 1937, Serial No. 159,087
3 Claims. (Cl. 266—6)



1. In an apparatus for quenching a metal rod including means for holding said rod to prevent changes in shape tending to result from said quenching, and means for directing quenching liquid into contact with said rod, said first named means including a supporting member for said rod, and a second member for holding said rod against said supporting member including a series of flange-like walls extending from said second member and positioned along the length of said rod, each of said flange-like walls being formed with a recess therein effective to at least partially embrace said rod, said second named means comprising means for directing a plurality of separate streams of quenching liquid between successive ones of said walls and into contact with the intervening portions of said rod, said partially embracing recesses being effective to hold said rod tightly against said supporting member and being further effective to prevent movement of said rod in either a vertical direction or in a horizontal direction transverse to the axis of said rod.

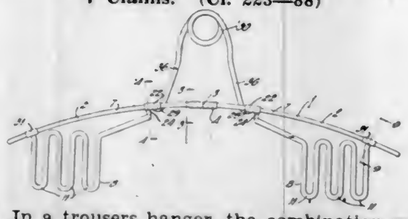
2,164,524
AZO DYE
Henry Jordan and Swanie S. Rossander, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 3, 1937, Serial No. 151,961
6 Claims. (Cl. 260—169)

1. A water-soluble compound represented by the formula:



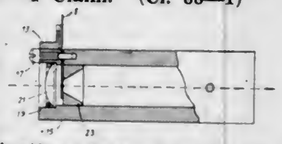
in which Y is one or more of the group consisting of hydrogen, halogen, alkyl, alkoxy, carboxy, and sulfonic acid, at least one Y being a water-solubilizing group and the end aryl has a single nucleus from the class consisting of benzene, naphthalene, diphenyl, phenyl-methyl-pyrazolone, and aryl of interior components has a single nucleus from the class consisting of benzene, naphthalene, and diphenyl.

2,164,525
GARMENT HANGER
Walter W. Keys, Pittsfield, Mass.
Application July 2, 1937, Serial No. 151,610
7 Claims. (Cl. 223—88)



1. In a trousers hanger, the combination with trousers-engaging elements, of a hanger member engageable therewith and biased normally to maintain said elements in spaced-apart, trousers-engaging relation but manually operable to draw said elements towards each other to facilitate the insertion thereof in the bottoms of a pair of trousers, and a closed frame comprising spaced parallel members upon which said elements are slidably mounted.

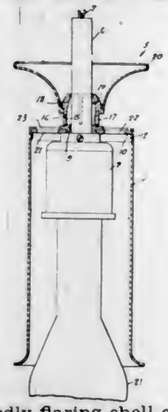
2,164,526
OPTICAL SYSTEM
William Kimmich, Flushing, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 8, 1936, Serial No. 78,557
1 Claim. (Cl. 88—1)



In combination a lens, a mounting for said lens, a disk diaphragm supported from the lens mounting, said diaphragm having a serrated periphery a plurality of spaced varying sized apertures each spaced a predetermined radial distance from a fixed point, a plurality of position marking indicia, each index being positioned diametrically opposite its respective aperture, an apertured shield supported from the lens mounting, and a lipped spring member likewise supported from the mounting to engage with the serrated periphery of the diaphragm for locking any one of the apertures in register with the axis of the lens and simultaneously locking one of the other of the apertures in register with the aperture of the shield.

2,164,527
LIGHTING FIXTURE HANGER
William Knapp, Hollis, N. Y.
Application August 31, 1938, Serial No. 227,631
2 Claims. (Cl. 240—78)

1. In a hanger for electric light fixtures having a central stem and a shell open at the top and bottom, a perforated plate, upon which the said shell is supported at the top thereof, an outwardly threaded split bushing on the plate through which the stem passes, and means for tightening the said bushing about the said stem comprising a nut threaded upon said bushing,



and an upwardly flaring shell carried by the nut and extending upwardly therefrom and constituting means by which the nut may be tightened about the bushing and being of sufficient diameter to space its upper end from the stem a sufficient distance to serve as a heat deflector.

2,164,528
MONEY PLATE
Alois Knotz, Graz, Austria
Application December 14, 1935, Serial No. 54,479
In Austria December 14, 1934
2 Claims. (Cl. 177—326)

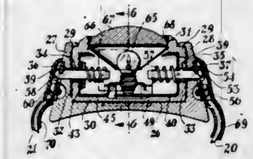


1. In a money plate adapted to be associated with a cash register, a box comprising a base and a cover, said cover consisting of a translucent plate and means for exhibiting rows of numbers thereon, said base containing a plate having rows of sockets for electric lamps, means for segregating said lamps, a second plate below said first plate bearing rows of electrical contacts for engagement respectively with electric lamps mounted in said sockets, said plates being fixed together so as to be removable together from said base, a second set of contacts fixed in said base and engaging resiliently with the electrical contacts in said second plate, and means for connecting said cover to said base to press said electrical contacts in said second plate against the contacts fixed in said base whereby the resiliency of the contacts maintains a tight association of the parts.

2,164,529
PORTABLE ELECTRIC HEAD LAMP
William F. Koepke, Guttenberg, N. J., assignor of thirty per cent to Adolph Berg, New York, N. Y.
Application October 22, 1938, Serial No. 236,491
2 Claims. (Cl. 240—59)

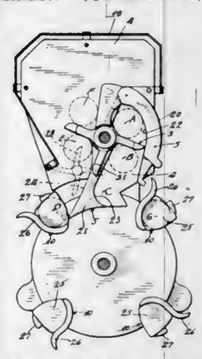
1. A portable electric head lamp including a

casing, a hollow barrel shaped member rotatable in the casing, a contact member having a disk portion positioned against the inner surface of one end wall of the barrel and having a strip portion extending along the bottom of the barrel to the center thereof, another contact member having a disk portion against the inner surface of the other end wall and having a strip portion and a socket portion, said socket portion being spaced from the first named strip portion but in alignment therewith, the disk portion of said last named contact member having a slotted



portion in its periphery, said contact members being movable with said barrel shaped member, a fixed contact member in the path of movement and adapted to be engaged by the last named contact member and a lamp bulb in said socket portion and having its central terminal in engagement with said first named strip, said fixed contact member being so arranged relative to said last named contact member that rotation of said barrel shaped member in either direction will cause engagement of said contact members and close the circuit through said lamp bulb.

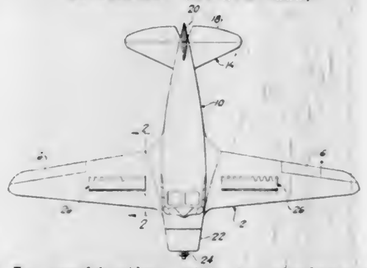
2,164,530
FILLING MACHINE
Olaf Larsen, Oak Park, Ill., assignor to The Creamery Package Mfg. Company, Chicago, Ill., a corporation of Illinois
Application March 12, 1938, Serial No. 195,635
13 Claims. (Cl. 226—75)



1. Container filling apparatus comprising a rotary head rotatable about a vertical axis for supporting containers as they are carried by the rotary head, and means for feeding empty containers to said rotary head and discharging filled containers from said rotary head comprising a rotary sweep rotatable about a vertical axis having peripherally opening pockets for receiving empty containers to be fed to said rotary head and for receiving filled containers from said rotary head, stationary deflector means for deflecting empty containers from said pockets onto said rotary head and for deflecting filled containers from said rotary head into said pockets, means for driving said rotary head continuously, means for driving said rotary sweep with a step-by-step movement, and means for applying a cap to a con-

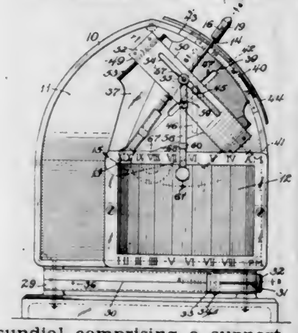
tainer during the period between steps of said rotary sweep comprising a vertically reciprocable plunger coaxial with said rotary sweep.

2,164,531
CONTROL DEVICE FOR AIRPLANES
John G. Lee, Farmington, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application December 4, 1935, Serial No. 52,883
10 Claims. (Cl. 244—113)



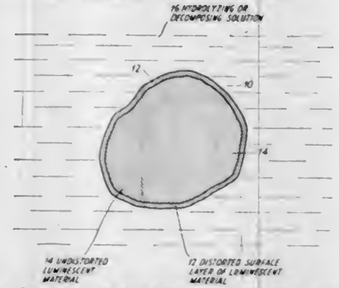
10. In combination with an airplane and a wing therefor, means for temporarily increasing the drag of said airplane comprising, an elongated member movably secured to the supporting structure of said wing, a plurality of spaced apart substantially rigid projections operatively associated with said movable member for movement thereby, the spaces between adjacent projections being greater than the widths of the individual projections, and means for moving said elongated member to move said projections out of the contour of said wing and into a position substantially transverse to the airstream flowing over the surface of said wing.

2,164,532
SUNDIAL
Wenzel W. Leinert, New York, N. Y.
Application September 29, 1936, Serial No. 103,081
Renewed November 23, 1938
5 Claims. (Cl. 33—62)



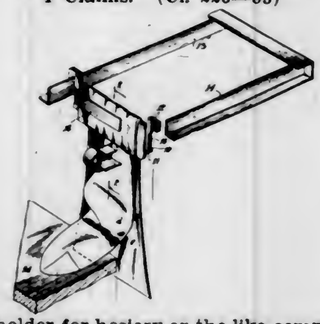
1. A sundial comprising a support, a pivoted date sector, a date-dial on the date sector, a latitude scale secured to the support, the date sector having indicating means for registering on the latitude scale, a slide movable on the date sector, the date sector and the support having slots arranged to cross, a slot setting stud slidable in the slots for adjusting the date sector, an hour dial, a date pointer pivoted to correspond with noon on the hour dial and having a finger to register on date dial, and a pendulum supported pivotally on the slide and movable thereon in a position to indicate time on the hour dial, and a means for indicating the position for use by light from the sun.

2,164,533
LUMINESCENT MATERIALS
Humboldt W. Leverenz, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application August 29, 1936, Serial No. 98,454
17 Claims. (Cl. 250—81)



9. In the art of making chemically combined inorganic luminescent materials, wherein the luminescent material possesses a stressed crystalline surface, the method of improving the characteristics of the luminescent material which includes the step of decomposing the surface by an easily volatilized hydrolyzing solution.

2,164,534
HOLDER FOR HOSIERY OR THE LIKE
Hans P. Luhn, North Tarrytown, N. Y.
Application January 20, 1936, Serial No. 60,006
Renewed November 17, 1938
4 Claims. (Cl. 223—85)

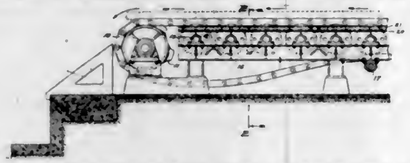


1. A holder for hosiery or the like comprising a substantially rectangular hanger member formed of sheet material and having parallel upper and lower edges, a similarly shaped locking member, supporting ears projecting outwardly and upwardly from the upper corners of the hanger member, and means for retaining the hanger and locking members with their upper and lower edges in alignment.

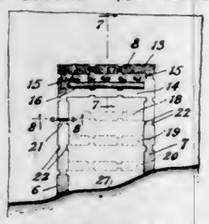
2,164,535
STEEL MILL CONVEYER FOR HEATED MATERIAL
Jesse E. McBride, Highland Park, Mich., assignor to Palmer-Bee Company, Detroit, Mich., a corporation of Michigan
Application March 18, 1938, Serial No. 196,695
5 Claims. (Cl. 198—189)

1. In a conveyer for transporting heavy heated

material, parallel chain strands for supporting said material, a plurality of relatively large diameter rolls distributed to support said chain strands, bearings for supporting said rolls positioned at the side of said chain strands, and heat insulating members mounted longitudinally and above said bearings but below the outer circumference of said rolls.

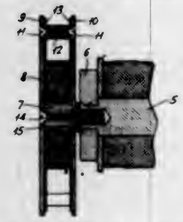


2,164,536
GARBAGE, ASH, AND REFUSE DISPOSAL, AND LAND RECLAMATION PROCESS
Lewis M. McCarthy, New York, N. Y.
Application January 27, 1938, Serial No. 187,135
7 Claims. (Cl. 61—35)



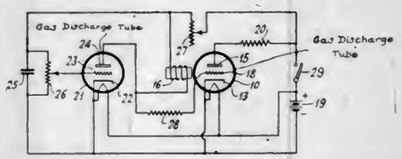
1. A process of filling and reclaiming land which is normally under water at high tide comprising, digging a pair of canals inwardly from shore for a required distance, digging a transverse canal between and connecting said pair of canals, filling said transverse canal with inferior materials, digging a second transverse canal between the pair of canals, utilizing the soil removed from the second transverse canal as fill on top of the inferior materials in the first transverse canal to thereby elevate the land over said canal, digging successive transverse canals between the pair of inwardly extending canals, filling each of said transverse canals with inferior materials and in each instance utilizing the soil removed from a succeeding canal as fill on top of the inferior materials in the canal which precedes it.

2,164,537
TELEVISION RECEIVING APPARATUS
John Edward Mead, Perivale, and Hector Gordon Merson Spratt, Slough, England
Application July 30, 1937, Serial No. 156,502
In Great Britain August 5, 1936
5 Claims. (Cl. 178—5.8)



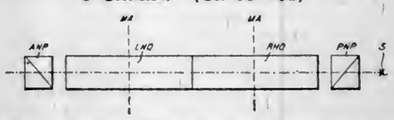
1. A loudspeaking apparatus comprising means for establishing a driving field, said means including a magnetic core, means for utilizing said field, at least one check member mounted adjacent said magnetic core on the side thereof remote from said field utilizing means, and a coil member mounted adjacent said cheek member for neutralizing external fields from said core member.

2,164,538
GAS DISCHARGE TUBE AND CIRCUITS
Wilber L. Meier, North Arlington, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application December 29, 1937, Serial No. 182,188
8 Claims. (Cl. 250—27)



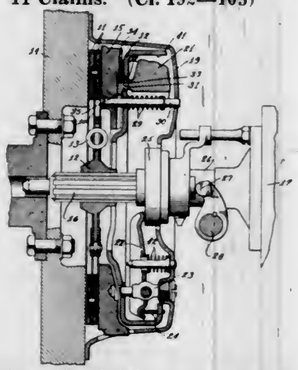
1. An electron discharge device including an envelope containing a gaseous atmosphere ionizable to provide a gaseous discharge, and enclosing a cathode and an anode, a source of voltage connected between said anode and cathode to produce a gaseous discharge between said cathode and anode, means for producing a magnetic field transverse to said gaseous discharge of sufficient strength to extinguish said discharge, and means for energizing the magnetic field producing means, including a condenser and a second electron discharge device in series with the magnetic field producing means.

2,164,539
ELECTROOPTICAL DEVICE FOR CONTROLLING LIGHT
Leonard Morris Myers, Middlesborough, England, assignor to Radio Corporation of America, a corporation of Delaware
Application April 25, 1935, Serial No. 18,267
In Great Britain May 28, 1934
3 Claims. (Cl. 88—61)



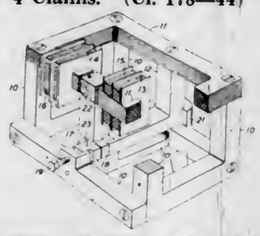
1. An electro-optical light controlling device comprising a source of light, a polariser interposed in the path of light from said source, at least two quartz laminae which are alternately right handed and left handed and are cut with their thicknesses in the direction of the electric axis, their greatest lengths in the direction of the optical axis and their widths in the direction of the mechanical axis, those laminae being in a series in a direction at right angles to the mechanical and electrical axes and being so arranged that light passing through two adjacent laminae has the initial retardation of the circular components along the optical axis reduced substantially to zero, the series of laminae being arranged in the path of the light from said polariser, said path of light coinciding with the optical axis of all the laminae, an analyser interposed in the path of the light from the series of laminae, and means for applying electrical potentials to cause electrical stresses in the direction of the electrical axes of all of said laminae.

2,164,540
AUTOMATIC CLUTCH
Harold Nutt, Chicago, Ill., assignor, by mesne assignments, to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 25, 1933, Serial No. 672,820
11 Claims. (Cl. 192—105)



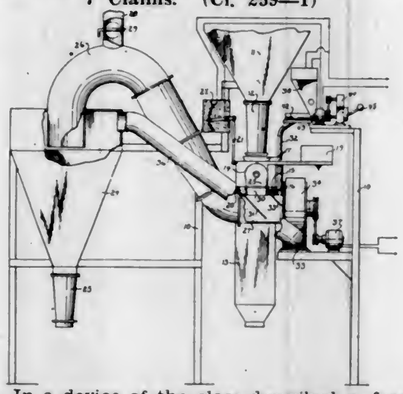
1. An automatic clutch comprising a driving member, a driven member, a pressure plate revolving with the driving member and movable to engage the driven member, a spring mounting ring associated with the pressure plate, preloaded pressure springs urging the spring mounting ring towards clutch engagement, clutch throwout mechanism operable at will to move said spring mounting ring against the pressure of the preloaded pressure springs, a plurality of centrifugally energizable weights pivoted between the pressure plate and the spring mounting ring and adapted to pry said plate and ring apart when energized whereby to advance the pressure plate into engagement with the driven member, means cooperating with certain of the weights and the spring ring, and pressure means acting between said last mentioned means and the pressure plate to retard the action of the cooperating weights to require a higher rotative speed for the energization thereof relative to that required for the remaining weights.

2,164,541
ELECTROMECHANICAL WAVE FILTER
Henry G. Och, West Englewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 14, 1938, Serial No. 207,928
4 Claims. (Cl. 178—44)



4. An electromechanical wave filter comprising a magnetic core of low reluctance to alternating current flux, said core having an air-gap therein, an input winding and an output winding, said input and said output windings being disposed on said core, a half of each of said windings being disposed on each side of the said air-gap in said core, means for introducing direct flux into said core, said means comprising a source of direct flux and a frequency-selective mechanical vibratory system, a portion of said vibratory system being disposed in said air-gap, said vibratory system being responsive to alternating flux within a desired range of frequencies whereby when alternating currents within said desired range of frequencies are introduced into said input winding said vibrating system will respond and cause variations in the said direct flux in said core corresponding to said alternating input currents.

2,164,542
MECHANISM FOR ACCURATELY MIXING DRY INGREDIENTS
John A. Owens, Des Moines, Iowa
Application October 25, 1937, Serial No. 170,984
7 Claims. (Cl. 259—1)

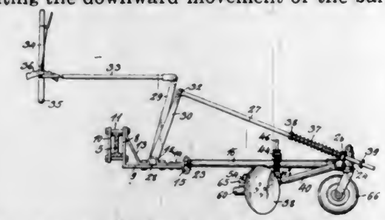


1. In a device of the class described, a frame, a hopper secured to the upper portion of said frame, a spout on the lower end of said hopper and in communication therewith, a horizontal conveyer positioned below said spout, a receiving spout on the end of said conveyer normally opening under said spout, a mixing chamber below the outlet end of said conveyer capable of receiving the discharge of said conveyer, a second hopper, a dispensing conveyer having one end in communication with said second mentioned hopper and its other end in communication with said mixing chamber, a blower fan having its intake in communication with one end of said mixing chamber, a collecting chamber in communication with the outlet of said fan, a conduit having one end in communication with another end of said collecting chamber and its other end in communication with the other end of said mixing chamber, and a means for regulating the discharge from said dispensing conveyer into said mixing chamber relative to the discharge from said horizontal mixing chamber.

2,164,543
RIDGE BUSTING DEVICE FOR FARM TRACTORS
Charles T. Peacock, Arriba, Colo.
Application June 21, 1938, Serial No. 214,952
16 Claims. (Cl. 97—47)

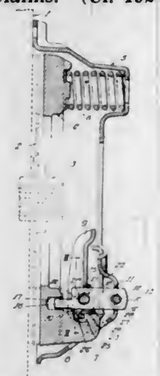
1. An implement for use with a farm tractor, comprising in combinations, a frame having means at one end for supporting it from the tractor and extending forwardly therefrom, a bar positioned below the frame and extending transversely thereof, means for attaching the bar to the frame for movement toward and away therefrom comprising arms pivoted to the frame, resilient means positioned between the bar and the

frame to urge the bar downwardly, means for limiting the downward movement of the bar, and



a furrow forming device attached to each end of the bar.

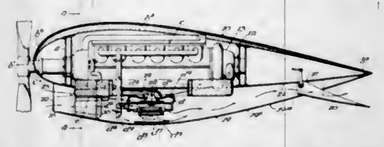
2,164,544
FRICTION CLUTCH
Harold V. Reed, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application November 9, 1936, Serial No. 109,812
10 Claims. (Cl. 192—68)



1. In a motor vehicle clutch, a clutch cover having an opening therethrough, a pressure plate mounted for movement along the axis of said cover, a stud having one end extending through said cover opening, a clutch release lever, means pivotally mounting said lever on that portion of said stud within said cover, said lever being in force-transmitting relationship with said pressure plate, a member interposed between the outer wall of said cover and a fixed surface on said one end of said stud, thereby to limit movement of the stud inwardly of the cover, said fixed surface forming part of the marginal edge of a space formed in said stud, receiving said member, and of sufficiently larger size than said member so that said member may be replaced with a member of different dimension thus to vary the position of said stud, along its axis, relative to said cover and resilient means interposed between said cover and the lever and exerting a component force upon said lever tending to draw the studs inwardly with relation to the cover and maintaining said fixed surface in continuous bearing engagement with said member.

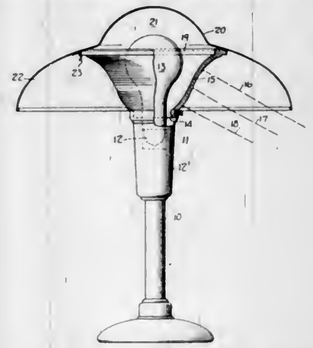
2,164,545
AIRPLANE
John P. Rogers, Williamsport, Pa., assignor to Aviation Manufacturing Corporation, Williamsport, Pa., a corporation of Delaware
Application November 13, 1937, Serial No. 174,411
14 Claims. (Cl. 244—57)

1. In an airplane, the combination of a supporting structure, an internal combustion engine carried by the structure, a cowl forming a tunnel extending in a fore and aft direction of the airstream of the moving airplane and having an inlet opening at its front end and an outlet open-



ing at its rear end for the passage of air therethrough, an engine accessory disposed in the tunnel, and a turbine driven by the engine exhaust gases and disposed in the tunnel for operating the accessory.

2,164,546
DESK LAMP
Thomas W. Rolph, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application July 22, 1937, Serial No. 155,038
3 Claims. (Cl. 240—81)

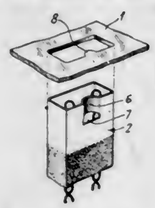


1. A desk lamp of a height to be normally below eye level and comprising a support, a lamp socket and lamp bulb carried by the socket, an upwardly and outwardly flaring bowl having annular light condensing prisms for directing light away from the nadir to illuminate remote areas of the desk, and a combined cover and screen comprising a central opaque bulged reflector detachably secured above the opening in the bowl and the lamp bulb and resting on top of the bowl to reflect light back into the bowl, and a light screen extending downwardly and outwardly from the top of the bowl to substantially the bottom of the bowl to screen the bowl at angles above the horizontal, and having a wide diameter at the bottom to permit said directed light to escape.

2,164,547
ELECTRODE SUPPORT
Newell R. Smith, Bloomfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application April 30, 1938, Serial No. 205,206
6 Claims. (Cl. 250—27.5)

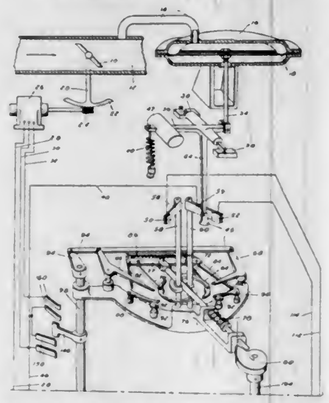
1. An electron discharge device comprising a cathode sleeve, an insulating spacer having an opening to receive the end of said sleeve, a notch in said sleeve spaced inwardly from the end of

the sleeve with the opposed edges of said notch bearing against opposite sides of said spacer at



said opening to prevent longitudinal movement of the sleeve through the opening.

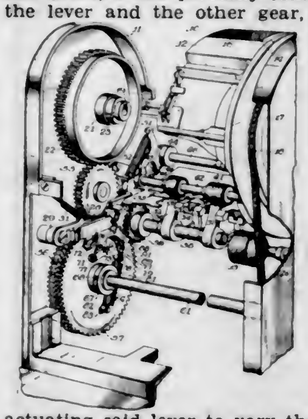
2,164,548
REGULATOR
Charles H. Smoot, deceased, late of Maplewood, N. J., by Katherine E. Smoot, executrix, Maplewood, N. J., assignor to said Katherine E. Smoot
Application January 17, 1936, Serial No. 59,574
14 Claims. (Cl. 172—239)



1. A regulator having movable power-operated feeler members oscillatable about fixed axes and a part shifted according to a condition to be controlled and which is engaged by one or the other of said members when said condition varies one way or the other from a value to be maintained, power means controlled by engagement of one or the other of said members with said part to modify said condition in a sense tending to return it to said value, and means for changing the operation of the feeler members to cause them to move toward and from said part in its position as so shifted and then gradually to return to normal operation as said part returns to normal position as said condition returns to said value.

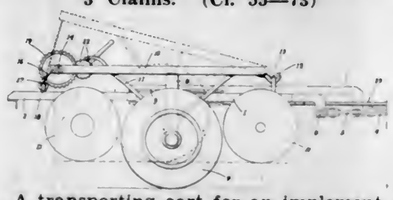
2,164,549
DUPLICATING MACHINE
Paul A. Stephenson, Winnetka, Ill., assignor to A. B. Dick Company, Chicago, Ill., a corporation of Illinois
Application March 19, 1937, Serial No. 131,766
4 Claims. (Cl. 271—53)

1. In a device adapted to feed sheets from rest, feed members to contact and advance each sheet, driving means for said members including a pair of coaxial adjacent gears, a lever pivotally mounted on one of the gears and disposed between said gears, a link pivotally connected between the lever and the other gear, and cam



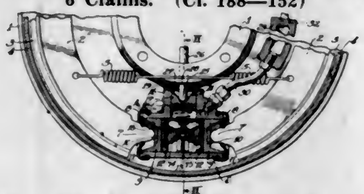
means actuating said lever to vary the angular relationship between the gears.

2,164,550
TRANSPORT CRADLE FOR DISK HARROWS
Arthur N. Steward, Anderson, Calif.
Application August 17, 1937, Serial No. 159,510
3 Claims. (Cl. 55—73)



1. A transporting cart for an implement, said implement including a frame, and a draft bar unit for connection to a hauling vehicle connected to the frame for swivel movement in a vertical plane; said cart comprising a frame adapted to overhang the implement frame, a pair of wheels supporting said cart and means between the cart and implement frames to support the implement in substantially balanced and suspended relation to the cart, and detachable means applied between the implement frame and draft unit to hold the latter against swivel movement.

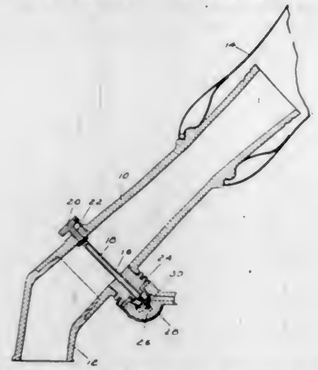
2,164,551
HYDRAULIC BRAKE
Benjamin A. Swennes, Rockford, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application August 24, 1936, Serial No. 97,542
6 Claims. (Cl. 188—152)



1. In a vehicle, the combination with a brake surface, supporting means, brake means mounted thereon and engageable with said surface, and means for operating said brake means, of a fluid pressure system mounted on said supporting means and including a master cylinder having a driving piston arranged to be moved by said

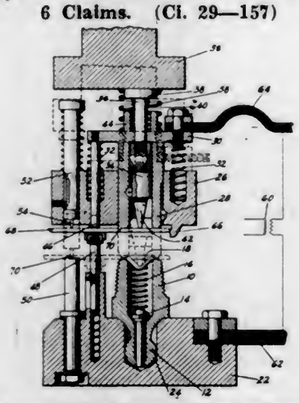
operating means and a cylinder mounted independently of and communicating with the master cylinder and having a driven piston for actuating said brake means, said driven piston being movable by the fluid in response to movement of said driving piston.

2,164,552
FLUID OPERATED VACUUM DEVICE
George O. Taylor, Cicero, Ill., assignor to The Lubrication Corporation, Chicago, Ill., a corporation of Delaware
Application August 7, 1937, Serial No. 157,901
6 Claims. (Cl. 230—95)



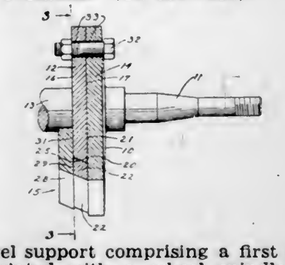
1. A fluid operated vacuum device comprising a conduit, a tubular member extending transversely of said conduit and slidable relatively thereto and formed with a transverse outlet opening within the conduit, and means including a valve secured to said conduit for supplying fluid to said tubular member said valve being disposed in the path of said tubular member to be operated by sliding movement thereof.

2,164,553
METHOD OF MAKING LUBRICATING DEVICES
Harry R. Tear, Evanston, Ill., assignor to The Lubrication Corporation, Chicago, Ill., a corporation of Delaware
Continuation of application Serial No. 20,447, May 8, 1935, which is a division of application Serial No. 643,688, November 21, 1932, now Patent No. 2,046,418, dated July 7, 1936. This application September 11, 1937, Serial No. 163,399
6 Claims. (Cl. 29—157)



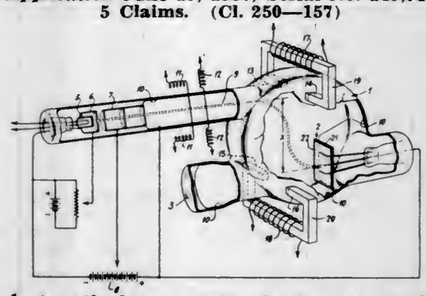
1. The method of forming and affixing a valve spring retainer for a lubricant receiving fitting which consists in feeding a length of steel wire over the end of the tubular fitting shank, in holding one end of the wire against movement, in depressing the mid-portion of the wire into the bore of the shank and in permanently affixing the wire at its points of contact with the end wall of the shank thereto.

2,164,554
WHEEL SUPPORT
Adolph I. Tollefson, Benson, Minn.
Application June 15, 1936, Serial No. 85,301
5 Claims. (Cl. 301—132)



1. A wheel support comprising a first element to be associated with a wheel spindle and a second element to be associated with a vehicle to be wheel supported, said first element including a plate member disposed substantially in right-angle relation to said wheel spindle and having an upwardly opening pocket at the side of the plate member opposite said wheel spindle and below its longitudinal axis, said second element including a plug member adapted to be removably received in said pocket, said pocket being defined at its lower portion by a base member, at one of its sides by a surface of said plate member above said base member and at its opposite side by a member rigid with and spaced from the plate member in the plane thereof, and said plug member being adapted to lie freely in said pocket against said base member with outer and inner surfaces of the plug member between said plate member and said rigid member in proximate relation to the last mentioned members, respectively.

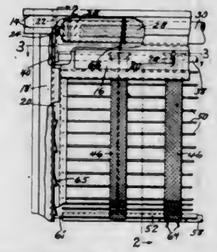
2,164,555
CATHODE RAY TUBE
Rohn Truell, East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application June 19, 1937, Serial No. 149,044
5 Claims. (Cl. 250—157)



1. A cathode ray device having an envelope with an elongated neck section and a window offset from the longitudinal axis of said neck section, an electron gun in said neck section for

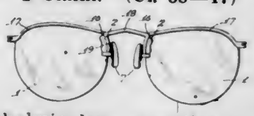
generating and focusing an electron beam, a target with a luminescent surface opposite said window, means for producing a magnetic field which is substantially perpendicular to and located near the longitudinal axis of the gun for bending the beam from its initial path as it leaves the gun, means for producing a second magnetic field which is substantially parallel to said first field but displaced therefrom to bend said beam to impinge on said target in a direction substantially parallel to the path of the beam as it leaves said gun, and deflecting means between said gun and said first means to deflect the electron beam over the initial portion of its path in two mutually perpendicular directions.

2,164,556
VENETIAN BLIND
Sigvald Udstad, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application November 23, 1936, Serial No. 112,389
2 Claims. (Cl. 156—17)



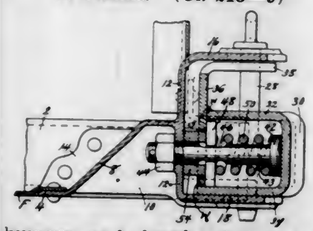
1. A Venetian blind for vehicle structures having window openings bounded by side members and window trim comprising in part, a slat unit including a top slat pivotally secured to the side members in a substantially concealed position behind the window trim, said unit including also a plurality of intermediate slats and a bottom slat flexibly suspended from said top slat, means connected to said top slat for controlling the angular position of said slats, said means comprising a rigid member projecting through the window trim for operation from the vehicle interior, and guides on the inner side of said window trim slidably retaining said means for movement in a substantially vertical plane.

2,164,557
LENS MOUNTING
William R. Uhlemann, Evanston, Ill., assignor to Uhlemann Optical Co. of Illinois, Chicago, Ill., a corporation of Delaware
Application November 26, 1937, Serial No. 176,467
1 Claim. (Cl. 88—47)



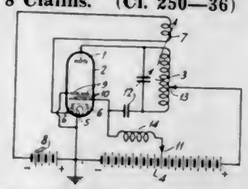
An ophthalmic lens mounting comprising a pair of lens supporting straps of channel cross section having elongated flanges between which the nasal edges of the lenses are held, a trilateral bridging piece connecting said straps having two side portions following the contour of said straps and the nasal edges of the lenses and lying in general in the rear thereof and fused to the rear flanges of the straps, and a top central portion connecting said two side portions, and a pair of temple-supporting wires supported by said bridging piece and secured thereto by fusion at points adjacent the junction of the side portions of the bridging piece with the top portion thereof and following the contour of the upper edges of the lenses and lying in general in the rear thereof and terminating in the temple connection.

2,164,558
MINE CAR SPRING BUMPER AND DRAWHEAD
Victor Willoughby, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application July 1, 1937, Serial No. 151,508
12 Claims. (Cl. 213—9)



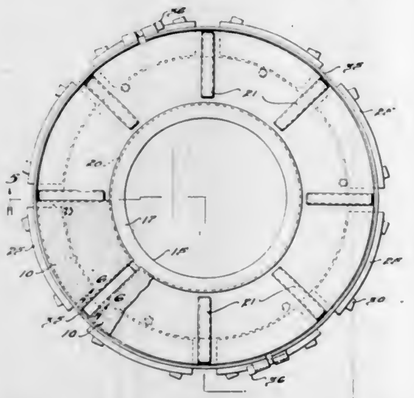
1. A bumper and drawhead device for mine cars comprising in combination with a car end member, a combined bumper and drawhead element slidably carried by the end member and including front and rear portions, headed bolts slidably carried by the end member and normally projecting outwardly therefrom into abutting engagement with the bumper and drawhead element, springs surrounding the bolts and bearing at their outer ends upon the bolt heads, said bolt heads transmitting buffing forces to the springs, spacing means maintaining the inner end of the springs in spaced relation to the end member, and means interposed between the inner ends of the springs and the rear portion of the element to transmit draft forces to the springs.

2,164,559
THERMIONIC VALVE CIRCUIT ARRANGEMENT
George Maurice Wright, Woodham Ferrers, England, assignor to Radio Corporation of America, a corporation of Delaware
Application February 1, 1937, Serial No. 123,318
In Great Britain February 8, 1936
8 Claims. (Cl. 250—36)



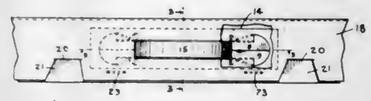
1. A reaction circuit arrangement comprising an electron beam valve having a cathode, a control electrode, an accelerating and focusing electrode for forming electrons from the cathode into a beam, and a target electrode, an output circuit connected at one end to the target electrode of said valve and at the other end through a condenser to the accelerating and focusing electrode of said valve, a connection including a source of target potential, between the cathode of said valve and an intermediate point on said output circuit, a connection including a reaction coil and a bias potential source between the control electrode of said valve and said cathode, said reaction coil being coupled to said output circuit, and a connection including a choke between said accelerating and focusing electrode and an intermediate tap on said source of target potential whereby energy fed from the output circuit to said accelerating and focusing electrode reduces the effective amplification factor of the tube.

2,164,560
GRINDING WHEEL
Alan P. Beebe, Detroit, Mich., assignor to Peninsular Grinding Wheel Co., Detroit, Mich., a corporation of Michigan
Application February 7, 1938, Serial No. 189,145
1 Claim. (Cl. 51—209)



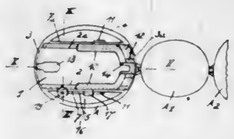
A segmental grinding wheel comprising a circular adaptor including, on one face thereof, an annular flange concentrically secured thereto inwardly of its outer periphery and having its outer peripheral surface inwardly inclined toward the base of the flange, radially directed ribs of uniform width throughout their lengths fixed thereto and having their lateral faces inwardly inclined toward the bases of such ribs, a plurality of inwardly movable clamps adjacent the outer periphery of the adaptor, said clamps having their inwardly directed peripheral surfaces inwardly inclined toward the bases of the clamps and being of substantially L-shaped cross section along any radial plane passing therethrough, said adaptor being provided with an annular groove formed in its periphery and its back face, opposite said one face, for receiving and guiding one leg of each of said clamps, a plurality of abrasive segments each having a plane grinding surface and an anchoring base provided with upwardly and inwardly inclined surfaces on all lateral faces thereof, said upwardly and inclined surfaces being complementary to the corresponding inclined surfaces of said flange, said ribs and said clamps respectively, the construction and arrangement being such that said abrasive segments are spaced from each other by said ribs with said spaces being of uniform width throughout their length, and means for moving said clamps radially inwardly toward the center of said adaptor to clamp said abrasive segments to said adaptor with the inclined surfaces of the anchoring portions of the abrasive segments contacting all of the inclined surfaces of said flange and said ribs and clamps.

2,164,561
HANDLE BOX
Aaron Berke, Brooklyn, N. Y.
Application August 20, 1937, Serial No. 160,115
10 Claims. (Cl. 229—52)



10. A handle box of flexible sheet material, comprising an inner part, and an outer part, a portion of one wall of the inner part being of two-ply construction, the outer of said plies having cut or stamped therein an enlarged-ended strap to serve as a handle for the box, and the inner of the plies being cut to permit the handle ends to be pressed therethrough, means on the inner ply for interlockment with the handle ends, to hold the handle to the box, and the outer part of the box having a wall adapted to overlie the handle-bearing wall of the inner part of the box when the box is closed, and having a slot therein in registration with the strap portion of the handle, whereby such strap portion may be drawn through the said slot in the wall of the outer part of the box, for hand grip, after the handle ends have been locked as aforesaid.

2,164,562
EXTENSIBLE JEWEL
Georges Albert Julien Bezault, Juvisy-sur-Orge, France, assignor to Cartier, Societe Anonyme, Paris, France, a company of France
Application May 11, 1938, Serial No. 207,365
In France February 24, 1938
10 Claims. (Cl. 63—1)

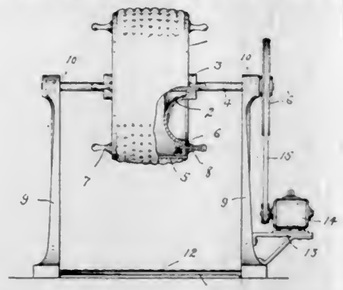


6. A jewel of the kind including bracelets and necklaces, which comprises, in combination, a series of hinged elements, at least one of said elements being hollow and the next element being slidable into and out of said hollow element, cooperating means carried by said two last mentioned elements respectively for hingedly connecting them together in the outer position of said second mentioned element about two axes at right angles to each other, and means for locking said two elements in the position in which one is engaged in the other.

2,164,563
SOMERSAULTER
Winfred G. Bolcom, Duluth, Minn.
Application August 17, 1936, Serial No. 96,479
5 Claims. (Cl. 128—24)

1. A somersaulter of the type described comprising a mountable rotative member, supports for said member upon either side thereof and of sufficient spaced relation to permit the rider passing therebetween while on the member, power means for activating the member, and means

extending from the ends of said member for control of said power means by the rider while on



said member, said control means acting as holdfast means for the rider while on the member.

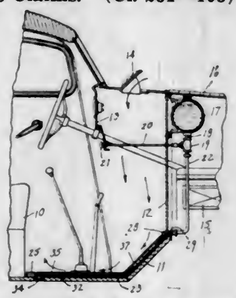
2,164,564
CORROSION INHIBITOR
Edgar C. Britton, Howard S. Nutting, and Peter S. Petrie, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 3, 1937, Serial No. 140,456
9 Claims. (Cl. 252—5)

1. A fluid-pressure transmission and heat-exchange medium comprising a liquid selected from the group consisting of water and alcohols and a compound selected from the group consisting of piperazine and alkyl-substituted piperazines.

2,164,565
RUST INHIBITOR
Edgar C. Britton, Howard S. Nutting, and Peter S. Petrie, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 3, 1937, Serial No. 140,457
7 Claims. (Cl. 252—5)

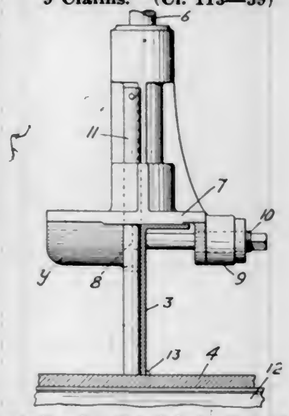
1. A non-corrosive fluid-pressure transmission and heat-exchange medium comprising a liquid selected from the group consisting of water and aliphatic alcohols as the major ingredient together with an aralkyl amine inhibitor having the general formula $Ar—(CH_2)_n—NH_2$ wherein Ar is an aromatic radical and n is an integer.

2,164,566
AIR CONDITIONING APPARATUS FOR MOTOR VEHICLES
Robert Lee Bunting, Danville, Ill.
Application June 10, 1937, Serial No. 147,421
5 Claims. (Cl. 261—103)



1. In a motor vehicle having a cowl ventilator, an open water absorbent and diffusing means arranged on the floor of said vehicle in position to receive a stream of air from said ventilator, and a reticulated weight-bearing cover therefor.

2,164,567
APPARATUS FOR FABRICATING STRUCTURAL ELEMENTS
Richard L. Burke, Swarthmore, Pa., assignor to Sun Shipbuilding & Dry Dock Company, Chester, Pa., a corporation of Pennsylvania
Original application April 23, 1937, Serial No. 138,498, now Patent No. 2,143,109, dated January 3, 1939. Divided and this application September 1, 1937, Serial No. 161,889
9 Claims. (Cl. 113—59)



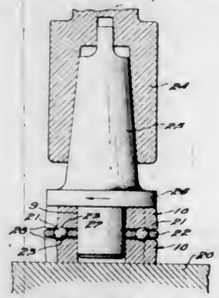
1. Apparatus for the fabrication of structural elements from plates and shapes comprising, in combination, a support for a plate, a series of heads arranged transversely of the support, rods connecting said heads with power cylinders whereby they may be raised and lowered, aligning flanges depending from the heads, drop pins extending vertically through the heads and in alignment with the flanges, said heads being adapted to be lowered to clamp a shape to a plate positioned on said support and said depending flanges and drop pins affording a guide for the alignment of a shape on a plate.

2,164,568
PARASITICIDAL COMPOUND AND METHOD OF PRODUCING THE SAME
Ralph N. Chipman, Plainfield, and Frank J. Seibert, Bound Brook, N. J., assignors to Chipman Chemical Company, Inc., Bound Brook, N. J., a corporation of New York
No Drawing. Application February 25, 1937, Serial No. 127,770
11 Claims. (Cl. 167—15)

4. The process of producing a parasiticide, which comprises forming a mixture containing Paris green, calcium arsenate, an alkaline-earth hydroxide and water, drying said mixture and, during some portion of the process prior to completion of the drying, subjecting the mixture to a temperature of between approximately 150° F. and approximately 250° F.

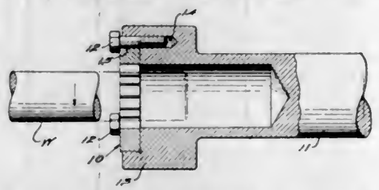
5. As a new composition of matter, a parasiticidal compound comprising the reaction products resulting from subjecting Paris green, calcium arsenate and an alkaline-earth hydroxide to a reaction temperature of from approximately 150° F. to approximately 250° F. in the presence of water, said compound being characterized by a relatively high degree of stability with respect to water-soluble arsenic content.

2,164,569
METHOD OF LOCATING THE TEETH OF ROTARY CUTTING TOOLS
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application October 23, 1936, Serial No. 107,172
2 Claims. (Cl. 76—89.2)



1. The method of changing the radial position of the cutting faces of a series of cutting teeth of a rotary cutter comprising rolling a plurality of balls in a circular path concentric with the axis of the cutter and against the face of the cutter adjacent the base of the teeth and with pressure axially of the cutter sufficient to move the cutting faces of the teeth bodily in a radial direction.

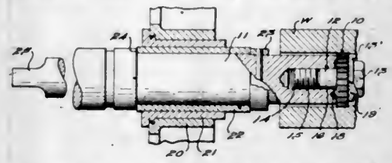
2,164,570
CUTTING TOOL
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 14, 1936, Serial No. 110,827
7 Claims. (Cl. 29—103)



1. A rotary cutter comprising a metal disk having teeth at the inner periphery thereof extending longitudinally of the axis, said disk having at its leading end a surface wholly in one plane to form with the tooth walls, cutting edges at the junction with one side of each of said teeth.

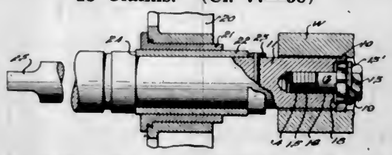
2,164,571
CUTTING TOOL
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application November 17, 1936, Serial No. 111,270
4 Claims. (Cl. 77—58)

1. A rotary boring tool comprising a substantially cylindrical disk having similar teeth formed across its peripheral face, the sides of said teeth diverging at similar angles from the land toward the base, and the cutting ends of said teeth at both sides of the disk being disposed in planes



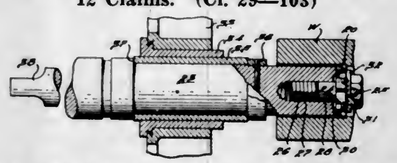
normal to the cutter axis and formed without relief.

2,164,572
TOOL
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application December 10, 1936, Serial No. 115,098
13 Claims. (Cl. 77—58)



1. A rotary tool comprising an annulus having one circumference formed with similar teeth each having two sides and a peripheral face and extending the entire axial length thereof, the junction of the leading sides and the ends of said teeth at one end of the tool forming cutting edges and the leading portion of the peripheral faces of the teeth being relieved radially providing surfaces for burnishing the wall formed by the cutting edges.

2,164,573
TOOL
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application December 21, 1936, Serial No. 116,907
12 Claims. (Cl. 29—103)

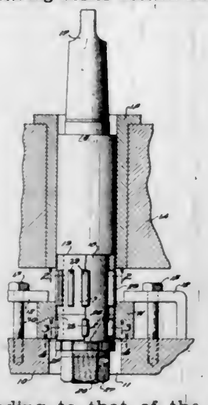


1. A rotary tool comprising a relatively thin body having axially extending teeth projecting therefrom with cutting edges at one end thereof extending in the same plane and normal to the tool axis, the lands of said teeth lying on a circle struck from the axis of tool rotation and the sides of each tooth being substantially parallel.

2,164,574
TOOL
John M. Christman, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application March 31, 1937, Serial No. 134,120
5 Claims. (Cl. 29—90)

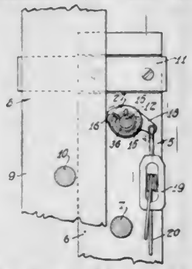
1. A tool comprising a supporting bar, cutter means carried on the bar, burnishing means carried on the bar in rolling engagement therewith, and roller bearing means carried on the bar in-

termediate the cutter means and the burnishing means, said bearing roller means having a diam-



eter corresponding to that of the bore formed by said cutter means.

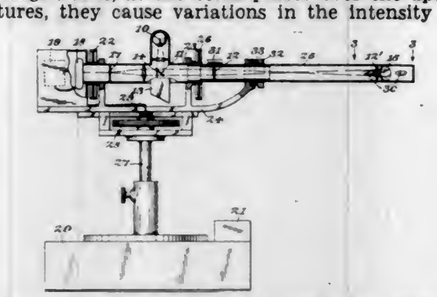
2,164,575
SAFETY DEVICE FOR EXTENSION LADDERS
Henry J. Colberg, Glendale, Long Island, N. Y.
Application April 21, 1937, Serial No. 138,099
8 Claims. (Cl. 228—65)



1. In an extension ladder having a movable part and a stationary part, a safety device comprising a shaft carried by the stationary part, a sleeve mounted on the shaft, cams carried integral with said sleeeve, means normally biasing said sleeve and cams in a direction to cause said cams to engage the rung abutting faces of the risers of the movable ladder part, and manually controlled means for overcoming said bias to rotate the sleeve in the other direction and lift the movable part.

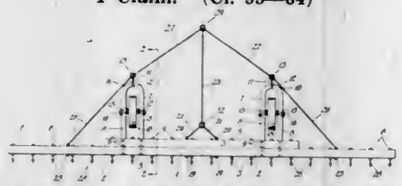
2,164,576
TESTING OF LENSES OR OTHER IMAGE PRODUCING OPTICAL DEVICES
Geoffrey Collins, Weybridge, England
Application February 2, 1937, Serial No. 123,713
In Great Britain October 10, 1936
4 Claims. (Cl. 88—56)

1. Apparatus for testing focal characteristics of image focussing optical devices comprising a light-sensitive cell, means for causing the device to be tested to direct a beam of light on to the cell, a mask in the path of the light beam between the device and the cell, indicating means responsive to the amount of illumination of the cell and means for moving the beam directed by the device in a direction across the mask, the mask having a plurality of apertures extending in the direction of movement of the beam and over which the beam passes during its movement and the apertures being so arranged that, as the beam passes over the apertures, they cause variations in the intensity of



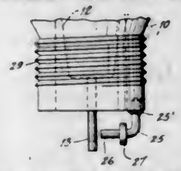
illumination of the cell by the light passing through the apertures, and hence in the response thereto of the indicating device depending upon the degree of focus of the beam by the device.

2,164,577
TRACTOR HARROW HITCH
James Malford Cruikshank, Pilot Mound, Manitoba, Canada
Application August 5, 1937, Serial No. 157,492
In Canada August 7, 1936
1 Claim. (Cl. 55—84)



A tractor hitch comprising a cross member, means for attaching implements thereto, a pair of horizontally disposed forwardly extending yokes fastened to said member, a wheel provided with an axle positioned within each of said yokes, a pair or axle clamps secured to the arms of each yoke and surrounding said axle, said axle clamps being adjustable along the length of said yoke for varying the horizontal spacing between each of said wheels, said member and a centrally positioned horizontally disposed and forwardly extending rod secured by links to said member, the forward end of said rod being also tied to said yokes by connecting rods.

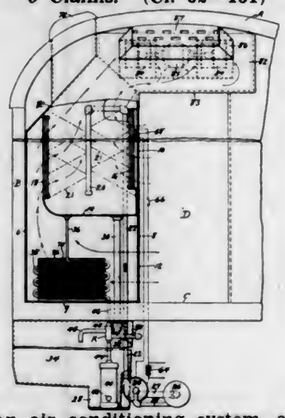
2,164,578
SPARK PLUG
Percy A. Doyle, Webster Groves, Mo., assignor of one-fourth to D. Speer Rainey and one-half to James O. Davies, both of St. Louis, Mo.
Application July 24, 1937, Serial No. 155,397
1 Claim. (Cl. 123—169)



A spark plug comprising a shell constituting a negative electrode, a positive electrode extending centrally and longitudinally through a porcelain insulated member positioned in said shell, said

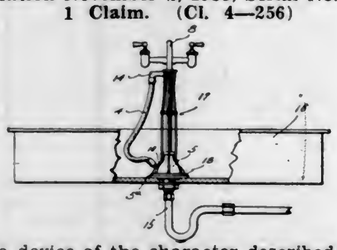
shell having an electrode extension piece extending beyond one end thereof, said positive electrode and said extension piece on said negative electrode being separated to provide a sparking gap, said extension piece being bent at a right angle to itself, and a disk-shaped piece on said angular portion of said extension piece adjacent the free end of said angular portion of said extension piece for the purpose of reducing the concentration of the electrostatic field at the tip of said extension piece.

2,164,579
AIR CONDITIONING SYSTEM
Francis A. Ecoff, Richmond Heights, Mo., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application September 1, 1936, Serial No. 98,894
9 Claims. (Cl. 62—131)



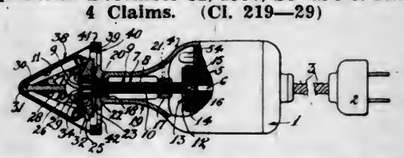
6. In an air conditioning system, a reservoir holding a chilled liquid, an air conditioning chamber having a spray pipe therein, means for conducting chilled liquid from the reservoir to said pipe for spray discharge into said chamber, drain means for returning liquid from the chamber to the reservoir, means for discharging liquid out of the system, and valve means operative in response to variations in liquid level in said reservoir for actuating the valve means, the latter being so formed as to control discharge of liquid out of the system.

2,164,580
HYDRAULIC FORCE PUMP
Jasper G. Elmore, Macon, Ga.
Application November 2, 1938, Serial No. 238,485
1 Claim. (Cl. 4—256)



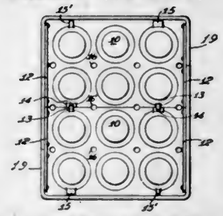
In a device of the character described, a handle provided on one end thereof with a cup member formed of elastic material, closed at one end and open at the other, and provided at said open end with an external bead, a nipple mounted on the wall of said cup member and having an end thereof extending through said wall, a flap-valve at the inner end of said nipple for normally closing said end of the nipple, and a skeleton frame embracing said handle and cup, said frame having a substantially cylindrical portion accommodating the handle, and a substantially flared portion accommodating said cup, and said flared portion at the end of the frame resting on said bead.

2,164,581
THERMOELECTRIC ROTARY RAZOR
George R. Ewald, Pittsburgh, Pa.
Application December 31, 1937, Serial No. 182,791
4 Claims. (Cl. 219—29)



2. In a thermo-electric rotary razor, an electric motor comprising a stator and a rotor; a shaft for said rotor; a substantially V-shaped burning element; a supporting spider therefor mounted on said shaft; a conic apertured guard surrounding said element; means to conduct simultaneously electric current to said motor and to said element to heat same; air circulating means formed integrally with said spider and adapted to force air through said guard, and means to resist the effect of the centrifugal force on said element.

2,164,582
BAKING ASSEMBLY
Thomas H. Gibson, New Kensington, Pa., assignor to The Aluminum Cooking Utensil Company, New Kensington, Pa., a corporation of Pennsylvania
Application April 12, 1937, Serial No. 136,249
6 Claims. (Cl. 53—6)

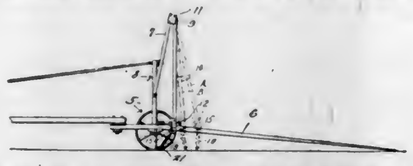


1. A baking assembly comprising a plurality of individual cast baking units, each baking unit having a horizontal deck portion, vertical flanges extending from and beneath said deck portions, said flanges being disposed at the ends of each unit of the assembly, means positioning adjacent units in lateral alignment, a strap disposed beneath the deck portions and secured to the flanges, and auxiliary abutments for supporting said strap disposed beneath and along said deck portions at an outer edge of each end unit of the assembly, said baking units having molds of substantially uniform thickness throughout.

2,164,583
BUCK RAKE
Guy Winfield Gooch, Cedarville, Calif.
Application October 4, 1937, Serial No. 167,263
1 Claim. (Cl. 56—395)

A rake embodying a frame, rake tines extend-

ing forwardly from the frame, a rake cleaner including vertical bars pivotally mounted on the frame, at the upper ends of the bars, the lower ends of the bars extending between the tines of the rake, spaced plates carried at the lower ends of each bar, said plates having L-shaped slots formed therein, members having extensions, mounted in the L-shaped slots and movable throughout the length of the slots, yieldable rods



carried by the members and being of lengths to engage the ground surface over which the rake moves, said rods adapted to move the members forwardly in the L-shaped slots whereby the bars are held against movement, when the rake is backed, and said rods being of a construction to trail, whereby the bars move rearwardly to their normal positions when the rake is moved forwardly under material to be picked up by the rake.

2,164,584
LATCH
Frank J. Harney, Lynn Mass.
Application December 17, 1936, Serial No. 116,382
4 Claims. (Cl. 292—335)



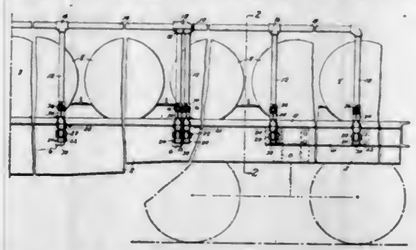
4. Device for locking a latch bolt in retracted position which comprises a slotted bolt, and an angle member disposed adjacent said bolt, one end of said member serving as a locking means for said bolt, the other end of said member projecting entirely through said slot and acting as a trigger.

2,164,585
ADHESIVE
Winfrid Hentrich, Dusseldorf-Reisholz, and Rudolf Köhler, Dusseldorf, Germany, assignors to Henkel & Cie, G. m. b. H., Dusseldorf-Holthausen, Germany, a corporation of Germany
No Drawing. Application November 7, 1936, Serial No. 109,752. In Germany May 6, 1936
8 Claims. (Cl. 134—23.5)

1. A novel adhesive composed at least in part of an aqueous colloidal solution of a soluble salt of a cellulose mononuclear aralkyl ether carboxylic acid, said ether carboxylic acid having its ethereal oxygen atom joined to the aromatic nucleus through an alkyl radical having 4 or less carbon atoms.

2,164,586
FOLDING GUARDRAIL FOR RAILWAY CARS
John J. McBride, Bayonne, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application May 20, 1937, Serial No. 143,692
7 Claims. (Cl. 105—384)

1. A folding guard rail for railway cars, comprising a plurality of pairs of hinge plates secured to the car, pivot pins connecting the plates, hinge butts mounted on the pins between the plates forming each pair of hinge plates and each supporting a rail stake, said butts being slotted to permit vertical shifting thereof relative to the pivot pins, top rails joining the adjacent rail stakes, and locking means rigidly secured to each



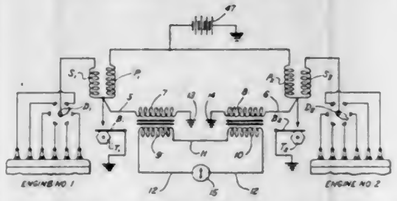
stake and engageable with the respective pair of hinge plates to retain the stake in a substantially vertical position, said slots permitting vertical shifting of the rail whereby the locking means will be disengaged from the hinge plates.

2,164,587
METHOD OF PRODUCING AMINES
Ralph H. McKee, New York, N. Y., and Carl T. Bahner, Conway, Ark.
No Drawing. Application February 26, 1937, Serial No. 127,870
18 Claims. (Cl. 260—501)

1. The process of producing ethylenediamine which comprises reacting a mixture containing about 4.2 parts by weight of ethylene dichloride, about 20 parts by weight sodium cymenesulfonate and about 76 parts by weight of 19% aqueous ammonia at a temperature between about 90° C. and about 125° C. and at a pressure between about 75 and about 105 pounds per square inch, freeing said reacted mixture of unreacted ammonia, and recovering the amines thus produced.

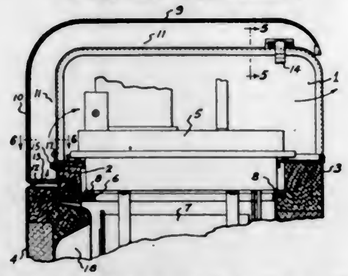
17. As a new article of manufacture ethylenediamine cymenesulfonate not melting even at 275° C. and containing about 5.7 to about 5.8% nitrogen and being but slightly soluble in water.

2,164,588
INDICATING APPARATUS
Don C. McRae, Miami, Fla., and John C. Franklin, Kansas City, Mo., assignors to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application March 16, 1936, Serial No. 69,232
4 Claims. (Cl. 177—311)



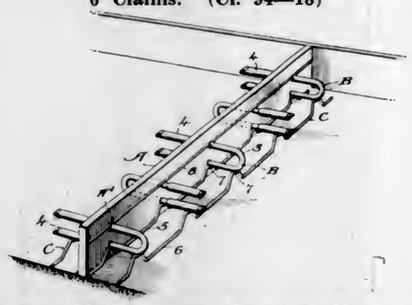
3. In a signaling system for indicating synchronous operation of two internal combustion engines, each having an ignition system including an ignition induction coil and primary circuit interrupter, the combination of an electrical signal device and a circuit connecting the signal device and both of the primary windings of the induction coils in series independently of said interrupters.

2,164,589
REFRIGERATOR CABINET
Roland H. Money, Cincinnati, Ohio, assignor to The Crosley Corporation, a corporation of Ohio
Application January 18, 1936, Serial No. 59,725
5 Claims. (Cl. 62—89)



1. In a refrigerator cabinet, the combination with side walls extending upwardly beyond the refrigeration compartment portion thereof, to form a space for installing a refrigeration unit, and a cross member at the front of the cabinet, a door for the refrigeration compartment portion of the cabinet abutting said cross member, and a removable cover for the top and exposed front of the unit installation space, engaging said sides at the top and front, and overlapping at least in part the said cross member, and spaced from said door said cover being formed outwardly where it lies at said cross member, to provide an air vent between its front face and the door and the cross member.

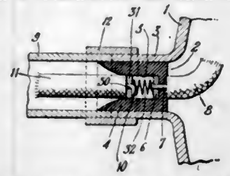
2,164,590
DOWEL MEANS FOR ROADWAY JOINTS
James M. Oates, Ashland, Va.
Application February 23, 1938, Serial No. 192,149
6 Claims. (Cl. 94—18)



1. Means for connecting the slabs of roadways at joint locations including a double arm dowel both arms of which pierce the joint material and span the joint, and a plurality of tie members crossing said dowel at points spaced lengthwise thereof and supporting the dowel on the sub-grade.

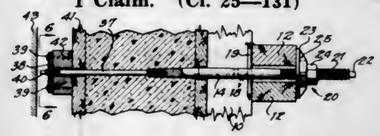
2,164,591
RADIO SHIELDED SPARK PLUG LEAD
Melville F. Peters, Beltsville, Md., and R. Harry Stone, Bound Brook, N. J.
Application January 10, 1938, Serial No. 184,306
10 Claims. (Cl. 123—148)

1. In an engine ignition system, the combination with a manifold having an opening, of a radio shielding conduit permanently secured at one end to said manifold adjacent said opening, means at the other end of said conduit for connecting it with the spark plug radio shield and providing a radio shielded passage from said conduit to said spark plug shield, a conductor in said manifold, a terminal for said conductor mounted adjacent said opening and a conductor in said conduit insu-



lated from the metal thereof and adapted at one end to be connected with the electrode of a spark plug and at the other end bearing against said terminal but being unsecured thereto against a pull tending to withdraw said conductor from said conduit.

2,164,592
CLAMP FOR CONCRETE WALL FORMS
Carl Pilj, Los Angeles, Calif.
Application July 12, 1937, Serial No. 153,215
1 Claim. (Cl. 25—131)

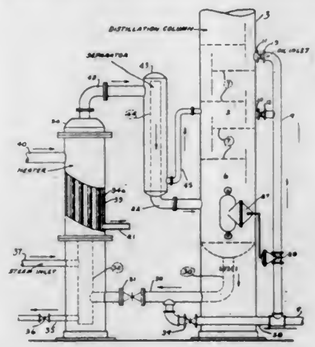


In a concrete form wall clamp, a clamp member having an inner end adapted to be positioned within a wall when formed and an outer end adapted to extend without such wall, such inner end being formed with a relatively long taper, whereby it may be readily withdrawn from a concrete wall and will leave a relatively small hole therein, said inner end having an axially extending interiorly threaded socket therein, a tie rod having one end threaded into said socket, said rod being adapted to extend through and beyond the opposite side of a wall, the extending end of said rod being threaded oppositely to the end thereof threaded into said socket, and a plate member adapted to be attached to the forms at said opposite side of the wall, said plate having a threaded aperture for receiving the oppositely threaded extending end of said tie rod.

2,164,593
METHOD FOR DISTILLING OILS
Norman K. Rector, Tulsa, Okla., assignor to Petroleum Engineering, Inc., Tulsa, Okla.
Application March 29, 1937, Serial No. 133,721
8 Claims. (Cl. 196—85)

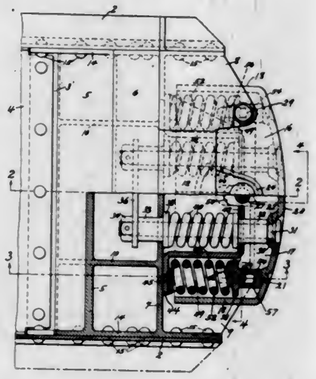
1. The process of distilling oil containing a minor portion of impurities which are non-vaporizable at a temperature at which the major portion of the oil is substantially completely vaporizable, which comprises flowing said oil in a closed cycle from a distillation zone through a heating zone thence through a separating zone and back to said distillation zone, injecting steam into said oil at a point in said cycle outside said distillation zone and anterior to said heating zone, heating the mixture of oil and steam in passage through said heating zone to a temperature sufficient to vaporize said major portion of the oil without decomposition thereof but insufficient to vaporize said minor portion, vaporizing said major portion of said oil in said separating zone, therein separating the resulting oil vapors and steam from the

unvaporized minor portion and continuously discharging these separated fractions into said distillation zone, the oil vapors and steam being in-



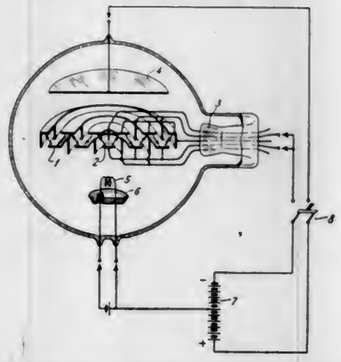
troduced therein below the unvaporized minor portion, recycling said unvaporized minor portion through said cycle and adding fresh oil continuously to the oil flowing in said cycle.

2,164,594
DUAL ACTION SPRING BUMPER AND DRAFT GEAR
Robert A. Shields, Berwick, Pa., assignor to American Car & Foundry Company, New York, N. Y., a corporation of New Jersey
Application September 9, 1937, Serial No. 163,081
14 Claims. (Cl. 213—9)



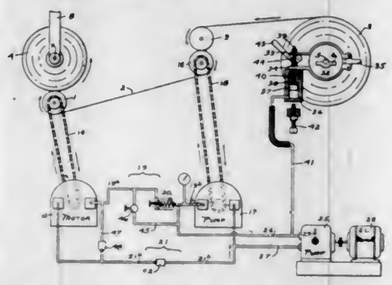
1. In a dual action draft and buffer gear for cars, the combination with a supporting end member; of a combined draft and buffer element slidably mounted for inward and outward movement on the supporting member, yieldable means resisting inward and outward movement of said element under buffing and draft forces respectively, means interposed between said element and said yieldable means for the transfer of buffing and draft forces thereto, and floating yoke means slidably carried by said end member for outward movement relative thereto, said yoke means interconnecting certain of said yieldable means in pairs for the transfer of draft forces directly from one yieldable means to the other whereby the equivalent height of said yieldable means is doubled to receive the draft forces.

2,164,595
METHOD OF COATING ELECTRODES
Karl Siebertz, Berlin-Grunewald, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt-Berlin, Germany, a corporation of Germany
Application November 13, 1937, Serial No. 174,314
In Germany December 7, 1936
4 Claims. (Cl. 250—27.5)



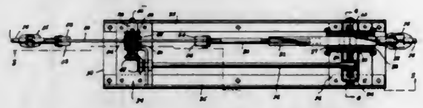
1. The method of activating an electrode with an active metal which comprises establishing between a thermionic cathode and an anode an electron discharge through an atmosphere containing the vapor of the active metal submerging said electrode in the ionized metal vapor in said discharge, and maintaining the electrode negative with reference to the cathode of the discharge during said discharge.

2,164,596
WINDER DRIVE
Paul Simonds, Milwaukee, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application November 5, 1937, Serial No. 172,888
20 Claims. (Cl. 242—75)



1. The combination, with a web of material, of means including a hydraulic motor for moving said web, means for resisting movement of said web including a first pump driven by motion imparted thereto from said web and delivering liquid to said motor, said pump having a smaller displacement per unit of time than said motor, a first channel connecting the outlet of said pump to the inlet of said motor, a second channel connecting the outlet of said motor to the intake of said pump, and a power driven pump for delivering additional liquid to said motor to energize the same.

2,164,597
AUTOMATIC LENGTH-CONTROLLING APPARATUS
Arthur Swanson, Pampa, Tex., assignor to Cabot Shops, Inc., Boston, Mass., a corporation of Massachusetts
Application February 24, 1938, Serial No. 192,324
4 Claims. (Cl. 74—586)



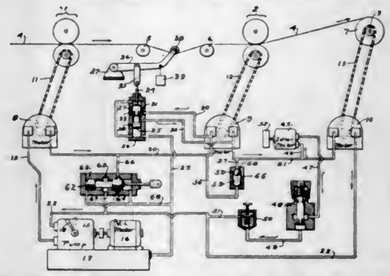
1. In a device of the class described, a reciprocatory line including a rod threaded into an elongated nut, a base, means on the base engaging the exterior of the nut to rotate the same while permitting longitudinal movement thereof, rotary means on the base associated with the line, a mechanical driving connection between the rotary means and the nut-rotating means, and pawls carried by the line and operative through said rotary means to rotate the nut-rotating means together with the nut when the line exceeds its normal reciprocatory stroke.

2,164,598
CORE TAKING APPARATUS
Fred Thrift, Whitsett, Tex.
Application April 13, 1934, Serial No. 720,405
9 Claims. (Cl. 255—72)



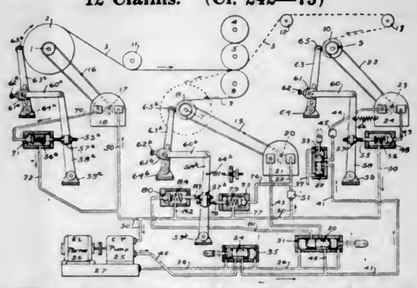
1. A core taking apparatus comprising a tubular stem having a drill attached to the lower end thereof and provided with a sample receiving inlet, said stem forming a conduit through which fluid under pressure may be supplied to the drill, a cylinder in the stem having an outlet port through which said fluid may pass, a barrel movable downwardly into and upwardly out of the stem, the upper end of the barrel forming a plunger arranged to enter the cylinder as the barrel moves downwardly whereby the pressure of the fluid in the stem above may act to force the plunger downwardly to clear said port and to move the barrel downwardly to seat its lower end on the drill in alignment with the inlet, said barrel being unanchored to the stem to permit upward pressure against the barrel to move the barrel upwardly relative to the stem to cause the plunger to block said port to effect an increase of pressure of the pressure fluid.

2,164,599
HYDRAULIC DRIVE
Ransom Tyler, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 3, 1937, Serial No. 177,931
19 Claims. (Cl. 242—75)



16. The combination, with a winding shaft and means for delivering a substantially continuous web of material thereto at a regulated rate, of a hydraulic motor for rotating said shaft to cause it to wind said web into a roll and to maintain tension upon the web between said roll and said means, means for supplying motive liquid to said motor at a rate in excess of the rate required by said motor, means for bypassing a part of said liquid around said motor at a limited rate and for varying said bypassing rate directly in response to variations in the torque of said motor to thereby cause the speed of said motor to vary inversely to the torque thereof, and an idler motor connected in series with said bypassing means and having sufficient rotating mass to counterbalance at least in part the mass of said roll and thereby prevent a material variation in the tension of said web during acceleration or deceleration of said motor.

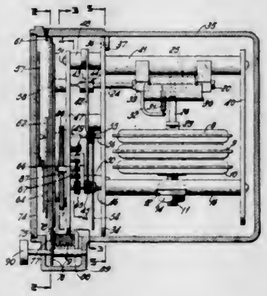
2,164,600
HYDRAULIC DRIVE FOR WINDING APPARATUS
Ransom Tyler, Greenfield, Wis., assignor to The Oilgear Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 11, 1937, Serial No. 179,301
12 Claims. (Cl. 242—75)



1. The combination, with a shaft and a roll of web material fixed upon said shaft and varying in diameter as said web is wound thereon or unwound therefrom, of a hydrodynamic machine having a rotatable member connected to said shaft to rotate therewith, said hydrodynamic machine having two ports and being adapted to rotate said member and discharge liquid from one of said ports upon motive liquid being supplied thereto through the other port and to draw liquid through one of said ports and discharge it

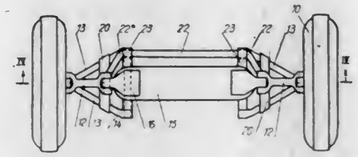
through the other port upon said member being rotated, means for supplying liquid at a substantially constant pressure to said machine to enable it to drive said shaft, a resistance valve for resisting the discharge of liquid from said machine and having a spring urging it toward closed position, and means responsive to variations in the diameter of said roll for varying the tension of said spring.

2,164,601
SETTABLE ALTIMETER
Adolf Urfer, Richmond Hill, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application April 6, 1932, Serial No. 603,647
12 Claims. (Cl. 73—4)



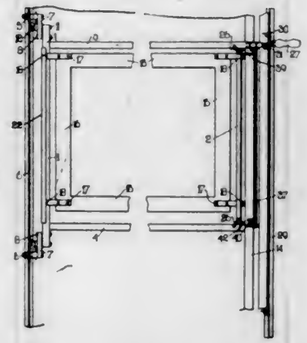
2. An altimeter including a stationary pressure-sensitive element, a pair of pointers, drive means for operating said pointers by changes in pressure on said element, one of said pointers being driven one complete revolution for a fraction of a revolution of the other, rotatable dials cooperating with said pointers for indicating action, stationary reference marks for each of said dials for indicating a predetermined condition, and means for rotating said dials relative to each other and to the pointers and reference marks for establishing a predetermined relation between said dials and pointers whereby the latter will produce a desired indication when the predetermined condition occurs, said condition being indicated on said dials by said reference marks.

2,164,602
MOTOR VEHICLE SUSPENSION
Vittorio Valletta, Turin, Italy, assignor to Fiat Società Anonima, Turin, Italy
Application November 18, 1937, Serial No. 175,221
In Italy January 30, 1937
3 Claims. (Cl. 267—19)



1. A motor vehicle wheel suspension comprising two resilient means for a pair of wheels, in which the first resilient means is arranged to alone counteract concordant vertical displacement of both wheels with respect to the vehicle frame, and the other resilient means is interposed between the two wheels so as to alone counteract rolling of the vehicle.

2,164,603
SCREEN PRINTING MACHINE
John Sylvester Wheelwright, London, England, assignor to J. S. Wheelwright Limited, London, England, a British company
Application October 1, 1936, Serial No. 103,584
In Great Britain January 10, 1936
7 Claims. (Cl. 101—114)



1. A screen printing apparatus comprising in combination a frame, means for securing a screen thereto, a table, a rail along one side only of the table, wheels on one side alone of the frame slidable along said rail, and lugs locking the said frame against displacement along said rail except when it lies at an angle to the horizontal plane of the table.

2,164,604
SKI
Carlton L. Whiteford, Brooklyn, N. Y.
Application February 11, 1938, Serial No. 190,099
3 Claims. (Cl. 280—11.13)

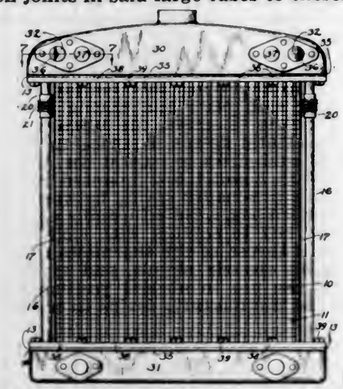


1. A metal ski formed of sheet metal having a bottom portion shaped to provide a skiing surface, said sheet metal being bent upwardly and then downwardly to form two-ply upstanding side flanges extending substantially entirely along the sides of said ski, the downturned flange being on the outside and terminating flush with the bottom of the ski to form a sharp longitudinal skiing edge.

2,164,605
RADIATOR BYPASS DEVICE
Fred M. Young, Racine, Wis.
Application September 12, 1936, Serial No. 100,466
3 Claims. (Cl. 257—125)

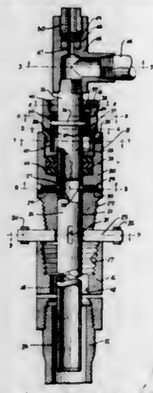
1. A radiator of the class described, comprising headers and finned tubes operatively connected therebetween, one of said headers having a partition forming a separate end compartment, a number of relatively large tubes operatively connecting said compartment to the adjacent end of the other header, openings on opposite sides of said partition and having means whereby the cooling liquid may be directed either through

said large tubes or through said finned tubes, expansion joints in said large tubes to thereby per-



mit unequal expansion between said large and finned tubes.

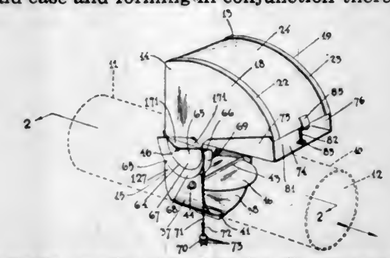
2,164,606
WIRE LINE ROTATABLE CIRCULATING HEAD
John F. Bozeman, Houston, Tex.
Application September 20, 1937, Serial No. 164,679
10 Claims. (Cl. 255—25)



1. A circulating and pack-off device for wire lines including, a tubular mandrel, a body rotatably mounted on the mandrel and adapted to be supported above a tubular drill stem, whereby a wire line may pass through the mandrel and stem, means above the mandrel for packing off around the wire line, a sleeve member releasably secured to the body, and means operable from the exterior of the body for releasing said sleeve member to permit it to fall downwardly through the drill stem.

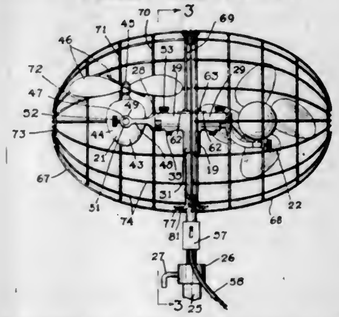
2,164,607
DAMPER CONTROL
Arthur D. Cole, Minneapolis, Minn.
Application August 26, 1935, Serial No. 37,842
16 Claims. (Cl. 236—45)

5. In combination with a pipe, a draft regulator including a case having a chamber therein, a damper within the pipe, a vane within said chamber means actuated by said vane for operating said damper, said vane on one side thereof being subject to the pressure within the pipe and on the other side thereof subject to atmospheric pressure, and a movable member connected to said case and forming in conjunction therewith a



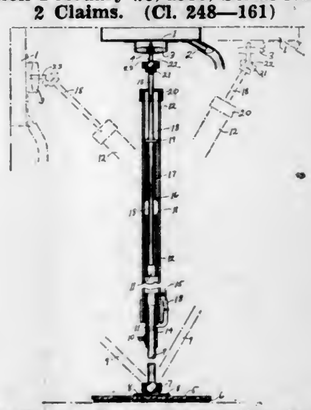
variable opening for damping the movement of said vane.

2,164,608
VENTILATING DEVICE
Richard T. Cornelius, Minneapolis, Minn.
Application August 26, 1937, Serial No. 161,091
7 Claims. (Cl. 230—250)



1. A ventilating device comprising a standard, a plate secured to said standard at the uppermost end thereof, two fans carried by said standard, said fans being disposed on opopsite sides of said plate and means for adjustably supporting said fans with reference to said plate.

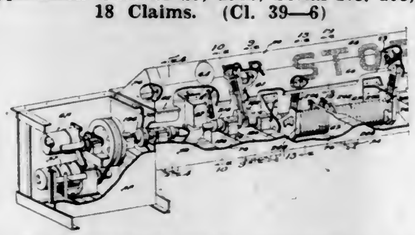
2,164,609
WALLPAPER STEAMER SUPPORTING DEVICE
Arthur Cusick, Youngstown, Ohio
Application February 26, 1938, Serial No. 192,806
2 Claims. (Cl. 248—161)



1. A wallpaper steamer supporting device comprising a plurality of telescopically arranged

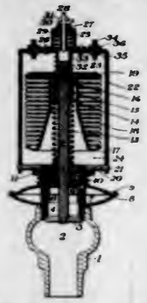
tubular members and rods, ball and socket joints formed at opposite ends thereof, together with a base member positioned on one of the said ball and socket joints and a tapered plug formed upon the other one of the said ball and socket joints and adapted to engage a tapered opening in the handle of a wallpaper steamer, a coil spring positioned between one of the said plurality of rods and one of the said plurality of members, and adapted to support under tension the said wallpaper steamer, substantially as described.

2,164,610
CROSSING PROTECTIVE SYSTEM
James Moore Evans, Detroit, Mich., assignor to Grade Crossing Guard Corp., Memphis, Tenn., a corporation of Tennessee
Application October 29, 1936, Serial No. 108,149
18 Claims. (Cl. 39—6)



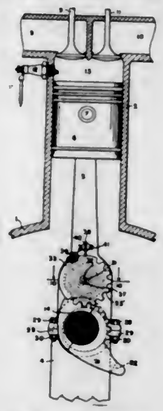
1. In a protective system embodying a casing and a barrier hingedly supported therein for selective projection and retraction, the combination of a hinge arm swingably connected at one end to said barrier and swingably connected at the other end to said casing, and spring means acting on said arm to resiliently oppose vertical, transverse and longitudinal components of impact forces on said barrier.

2,164,611
COMBINATION FIRE ALARM AND SPRINKLER HEAD
Joseph Ovila Fortin, Ottawa, Ontario, Canada
Application July 20, 1937, Serial No. 154,550
17 Claims. (Cl. 169—37)



17. In a fire extinguishing apparatus, in combination, a member with an expansion chamber adapted to be connected at one end to a fluid supply pipe and having a skeleton block attached to the other end thereof, a chamber in the skeleton block communicating with said expansion chamber, ports in the skeleton block chamber, a nozzle surrounding the skeleton block with which the ports communicate, a valve for the skeleton block chamber having a valve rod extending through the skeleton block, means to hold the valve in position, a thermostatic device positioned on and surrounding the upper portion of the valve rod comprising a cup-shaped device having a circuitous lower wall, a convoluted side wall and a capping plate with a neck thereon, a plate attached to the skeleton block for arresting the downward throw of the thermostatic device, a strap encircling the thermostatic device attached to said plate and having thereon adjustable means to arrest the upward travel of the thermostatic device, a space in the upper portion of said strap to receive the neck on the capping plate, a switch box mounted immediately thereover, a pre-loaded spring between the neck and the switch box, a pin adjustably positioned in the switch box to contact with said neck upon the upward thrust of the thermostatic device to complete an electric circuit, and spring means to return the pin to normal position upon return of the thermostatic device to normal position.

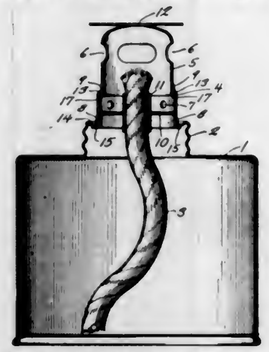
2,164,612
CONNECTOR
Wallace A. Harrington, Spokane, Wash.
Application October 24, 1938, Serial No. 236,703
6 Claims. (Cl. 74—44)



1. In an internal combustion engine, the combination with a piston, a connecting rod and a crankshaft, of a connector member between the crank and the connecting rod comprising an eccentric bushing having flanges on its ends, gear segments formed in the flanges, stops formed at one end of the segment, and arms extending from the flanges supporting a centrifugal weight at their ends, segmental gears mounted for rotation upon the connecting rod and engaging the gear segments of the connector, and return springs anchored to the connecting rod and to the segmental gears.
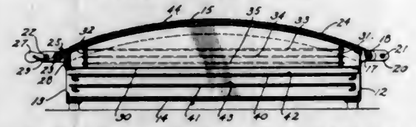
2,164,613
FLARE
William B. Larson, Fort Madison, Iowa, assignor to Anthes Force Oiler Company, a corporation of Iowa
Application May 3, 1935, Serial No. 19,669
1 Claim. (Cl. 67—55)

A flare, comprising a fuel reservoir, an orifice at the top thereof, a relatively cylindrical flame guard having a vertical dimension substantially shorter than said reservoir, said flame guard being provided with means for the emission of flame and the entrance of air, and being movable upward and downward through said orifice, means associated with said flame guard to close said orifice at the upward extent of the movement of said flame guard and to limit said upward movement, means cooperating with said orifice to limit the downward movement of said flame guard said flame guard being spaced above



the bottom of the reservoir at the limit of its downward movement, and a wick tube connecting the interior of said flame guard with the interior of said reservoir, relatively smaller in diameter than said flame guard and supported thereon.

2,164,614
DRIER FOR PHOTOGRAPHIC PRINTS AND THE LIKE
Robert M. Lynn, Altadena, Calif.
Application October 11, 1937, Serial No. 168,314
3 Claims. (Cl. 34—16)



1. A drier for photographic prints and the like comprising a main frame supporting a convex surface, means for heating said surface, a tightening frame pivotally mounted on said main frame to pivot about an axis parallel to said surface and located adjacent one edge thereof, a fabric sheet adapted to overlie said surface, one end of said sheet being secured unyieldingly adjacent said edge and the other end of said sheet being unyieldingly secured to said tightening frame, in such manner that lowering said tightening frame stretches said fabric sheet tightly over said surface, and means to latch said tightening frame in the lowered position.

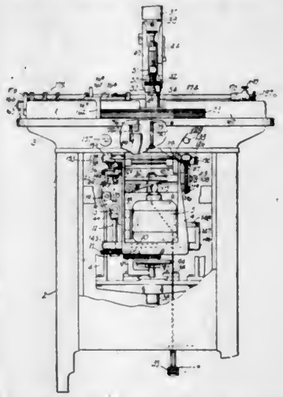
2,164,615
ALIGNER
Guy Mafera, Revere, Mass.
Application December 31, 1937, Serial No. 182,685
3 Claims. (Cl. 254—104)

2. In an aligner for adjusting a machine element relative to its base, a pair of members having wedge surfaces presenting shoulders, said surfaces being disposed in mutual contact, each of said surfaces having a longitudinal groove defining on assembly of said members an aperture through said aligner and means coacting with each of said members to effect relative movement thereof, said means comprising a bolt in said aperture, the head of said bolt bearing against one shoulder of one member, and a nut to coact with one shoulder of the other member and a washer intermediate said nut and said last-named shoulder, said washer being of a size
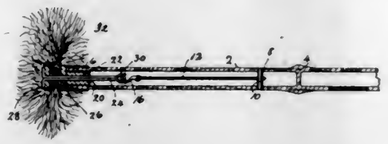


relative to said groove to hold said nut out of said groove as said nut is advanced on said bolt.

2,164,616
PUNCHING AND CUTTING MACHINE
Fred L. Manny, Benton Harbor, Mich., assignor to F. P. Rosback Company, Benton Harbor, Mich.
Application October 27, 1937, Serial No. 171,323
38 Claims. (Cl. 164—13)



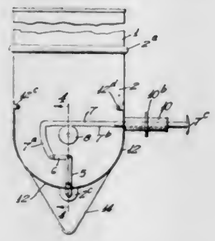
1. In a drilling and cutting machine of the type described, a work table for supporting a stack of sheets to be operated on, a compressor pad and an anvil reciprocable toward and from said table from one side thereof, a drilling spindle carrying a rotatable drilling tool, a cutting spindle carrying a notching tool, said tools being reciprocable toward and from the opposite side of said stack, means for swinging said spindles as a unit comprising a pivoted frame, means for slidably mounting said spindles in said frame, means for reciprocating said compressor pad and anvil and said spindles, comprising a vertically reciprocable drive rod, a floating cage, a driven cam carried by said cage, a driving lug on said cage, tappets on said spindles adapted to be brought into alinement with said lug upon swinging of said spindles into operative position relative thereto, a cam follower cooperable with said cam and operatively secured to said drive rod, means for guiding said cage for floating movement, means for rotatably driving the cam whereby said cam actuates the follower to approach the compressor pad and anvil toward the table and into engagement with a stack of sheets, further rotation of the cam causing the same to be elevated by the follower to elevate the cage and the tappet engaged by the lug on the cage, a motor drive for said machine, a clutch connecting said drive to said cam driving means, means for swinging said frame at timed intervals, and a further clutch between said motor drive and said swinging means.

2,164,617
BRUSH
Robert Marvin, Richmond, Va.
Application February 8, 1938, Serial No. 189,305
1 Claim. (Cl. 15—151)



A cleaning device comprising a tubular handle, a plug loosely and removably mounted in one end of the hollow handle, the plug being bored throughout its entire length; a pin tightly but slidably mounted in the bore in the plug and having a laterally bent end portion; a pair of collars slidably mounted on the pin and held against the bent end portion of the pin by the slidable plug; a mop-head held between the two collars; and an elastic member secured by one end in the hollow handle, and detachably attached to the end of the pin within the handle, and arranged so that the pin may be detached from the elastic by pulling it and the plug from the hollow handle.

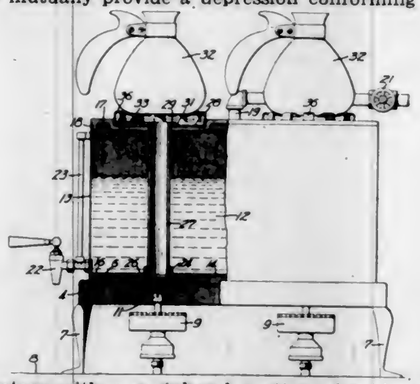
2,164,618
POWDER DISPENSER
Edwin G. Masters, San Diego, Calif., assignor to Mollie J. Masters, San Diego, Calif.
Application January 31, 1938, Serial No. 187,967
6 Claims. (Cl. 221—66)



1. In a powder dispenser, a casing provided with a semi-circular bottom portion provided with a slot centrally at the lower extremity, a revoluble valve arranged to cover and uncover said slot, means positioned at the side of said casing for revolving said valve, including an arm member secured to said valve, and link and plunger means operatively connected with said arm, said casing opened at its upper side and provided with a beaded portion adapted to receive a powder receptacle at one end.

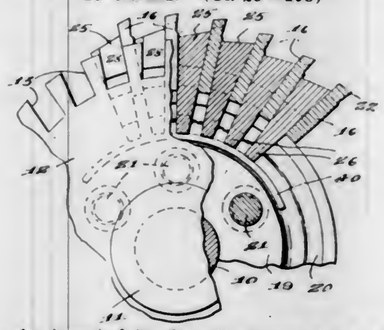
2,164,619
APPARATUS FOR USE WITH COFFEE BREWERS
Robert R. McLeod, Oakland, Calif.
Application August 2, 1937, Serial No. 156,926
2 Claims. (Cl. 126—215)

2. A support for a container to be heated over an end of a burner flue, comprising an annular member having thereon a plurality of curved resilient arms extending inwardly and each shaped to mutually provide a depression conforming in



contour with a peripheral portion of said container and in which said container may be seated.

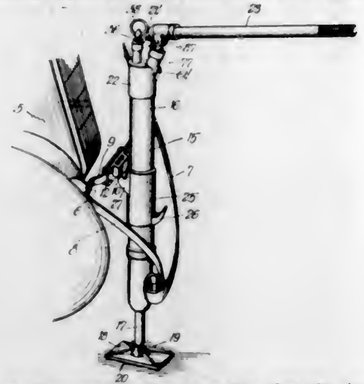
2,164,620
INSERTED TOOTH CUTTER
Willard E. Parish, Syracuse, N. Y.
Application July 29, 1937, Serial No. 156,376
10 Claims. (Cl. 29—105)



1. An inserted tooth cutter comprising a body member, a plurality of cutting teeth arranged about the periphery of the body, said teeth being arranged in circumferentially spaced apart relation, a wedge member arranged in the space between adjacent teeth and engaging the confronting sides of said teeth, said wedge members having limited movement in both directions circumferentially of the body, means operable to move said wedges into engagement with said teeth to detachably clamp the same to the body, and means cooperable with said teeth and wedges to retain said teeth from axial movement relative to said wedges.

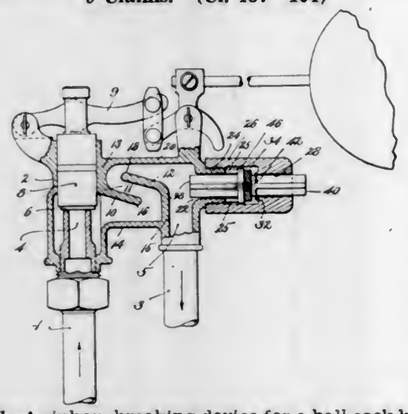
2,164,621
AUTOMOBILE JACK
Edward M. Pfauser, Elm Grove, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application August 19, 1935, Serial No. 36,765
9 Claims. (Cl. 254—93)

1. A bumper jack comprising a pair of concentric cylinders connected together at their lower ends and carrying a head at their upper ends, said cylinders defining a liquid reservoir, a plunger movable in the inner cylinder and extending outwardly thereof at the lower end of the reservoir, a pair of generally axially upwardly extending openings at the top of said head each communicating independently of the other with said reservoir and said plunger cylinder, pump means including a plunger disposed in one of said open-



ings and movable downwardly therein to force fluid under pressure into said inner cylinder and extend said plunger, and a manual control valve disposed in the other opening, both said control valve and said pump plunger extending upwardly from the upper end of said head.

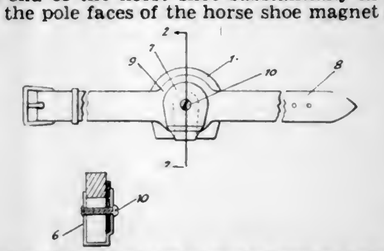
2,164,622
SIPHON-BREAKING DEVICE
Jacob Podolsky, Dorchester, Mass.
Application November 10, 1936, Serial No. 110,062
9 Claims. (Cl. 137—104)



1. A siphon-breaking device for a ball cock having a casing provided with an inlet and an outlet and a valve for the inlet, a wall of the casing having an opening in the path of flow of the water from the inlet to the outlet, a housing mounted on the casing and having an opening alined with the casing opening, and a member freely slidably mounted in the casing opening and provided with means for closing the housing opening in one of its extreme positions of slidable movement.

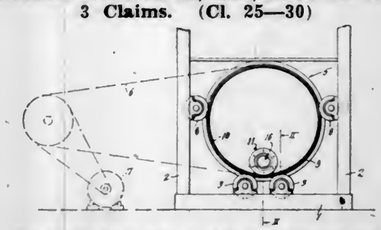
2,164,623
HAIRPIN HOLDER
Alfred E. Posner, Dorchester, Mass.
Application January 8, 1938, Serial No. 184,050
1 Claim. (Cl. 175—367)

Means for holding hair pins comprising a horse shoe magnet, a non magnetic member having two opposed plates positioned over the inner periphery of the horse shoe substantially covering the same with a portion extending around the open end of the horse shoe substantially in line with the pole faces of the horse shoe magnet and



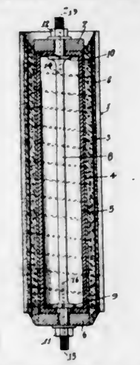
joined to the said plates, a strap inserted between the face of the horse shoe magnet and one of said plates and means clamping said opposed plates against the faces of the horse shoe magnet.

2,164,624
APPARATUS FOR MOLDING CONCRETE PIPE
Joseph G. Prosser, Onekama, Mich.
Application December 28, 1936, Serial No. 117,733
3 Claims. (Cl. 25—30)



1. An apparatus for molding concrete pipe, including a cylindrical molding casing, a drum of considerably larger diameter than said molding casing, means for mounting and driving said drum, rings at the end of said molding casing supporting the molding casing freely within said drum and provided with retaining flanges engaging said drum to inhibit longitudinal movement between said drum and molding casing, whereby the molding casing is frictionally rotated by the contact between said rings and molding drum.

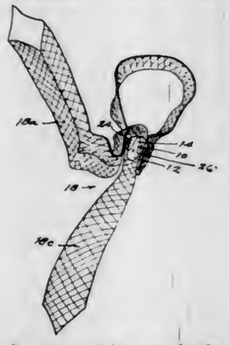
2,164,625
CONCRETE PIPE AND METHOD OF PRODUCING SAME
Joseph G. Prosser, Onekama, Mich., and Elmer L. Johnson, Loma Linda, Calif.
Application May 4, 1937, Serial No. 140,658
6 Claims. (Cl. 138—84)



1. A process of producing a concrete pipe which

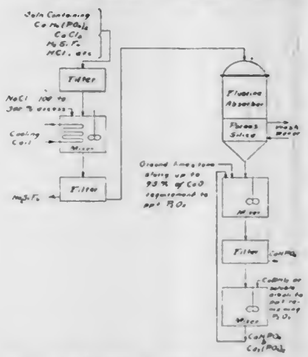
comprises first forming the concrete pipe with a steel reinforcing and with scores defining rupture points, then applying an internal pressure to the pipe sufficient to rupture the concrete of the pipe at such rupture points and place the steel under tension, while retaining the steel under tension filling the ruptured points with a filling, and thereafter removing the internal pressure so as to produce a finished pipe with the steel maintained under tension and the filling under compression.

2,164,626
TIE LOCK
Kent L. Seaman, Pasadena, Calif.
Application June 20, 1938, Serial No. 214,690
4 Claims. (Cl. 2—150)



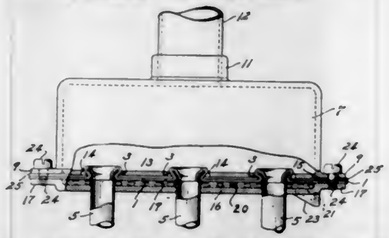
1. A tie lock comprising a body portion, a tongue extending from said body portion, spurs upon said body portion, said spurs being in a plane with said body portion and forming corners thereof, and a third spur, said last mentioned spur extending outwardly and downwardly from said body portion.

2,164,627
PROCESS FOR TREATMENT OF PHOSPHATIC SOLUTIONS
Warren R. Seyfried, Tampa, Fla.
Application July 17, 1937, Serial No. 154,260
6 Claims. (Cl. 23—109)



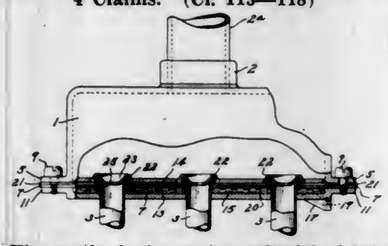
4. A process for the substantially complete removal of fluorine compounds from an acid calcium phosphate solution containing such compounds which comprises contacting said acid solution with an adsorptive skeletal form of silica obtained by the acid leaching of silicate minerals.

2,164,628
RADIATOR HEADER WITH FLOATING TUBE SHEET
Floyd J. Sibley, Detroit, Mich.
Application December 29, 1937, Serial No. 182,211
6 Claims. (Cl. 257—154)



2. In combination in a balanced radiator header, a plurality of spaced heat exchanger tubes, a flexible tube sheet for receiving an end of each tube, a header casing adjacent one side of said tube sheet and secured around the edges thereof for conducting fluid for the tubes, cover means disposed adjacent the other side of the tube sheet for enclosing a cavity, and a balancing material in said cavity to float said tube sheet in balanced relation thereon.

2,164,629
RADIATOR HEADER WITH METERING ORIFICE NIPPLES AND METHOD OF MAKING SAME
Floyd J. Sibley, Detroit, Mich.
Application December 29, 1937, Serial No. 182,212
4 Claims. (Cl. 113—118)

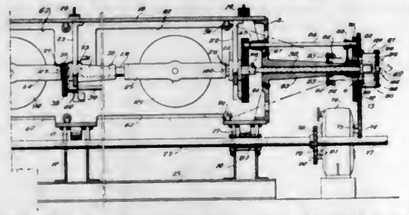


1. The method of securing cylindrical tubes to a tube sheet which consists in, forming an annular recess in the tube sheet, said recess being formed with concentric cylindrical walls to snugly embrace the cylindrical end of said tube, inserting the end of said tube in said recess, and flaring the inner wall of said recess outwardly with sufficient pressure to correspondingly flare outwardly the end of said tube and the outer wall of said recess to form a flaring nipple and to clamp the end of said tube between the walls of said recess.

2,164,630
HIGH SPEED STRANDING OR WIRE ROPE MACHINE
William E. Somerville, Coal City, Ill.
Application February 25, 1939, Serial No. 258,503
14 Claims. (Cl. 57—65)

1. A high speed machine of the character described embodying a tubular body rotatable on a horizontal axis, a plurality of reel carrying cradles rotatably supported within said body, said cradles spaced from each other in directions lengthwise of the said body, means for supporting and means for rotating said body, and means for rotating said cradles in directions opposite to

the direction of rotation of said body and at a different rate of speed from the speed of rotation of said body, the last recited means embodying



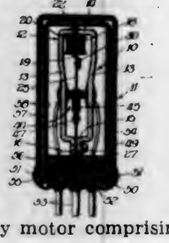
mechanism for imparting to one of said cradles a different rate of speed of rotation from the speed of rotation of the other cradles.

2,164,631
RACKET
Rollin Abell, Milton, Mass.
Application January 16, 1937, Serial No. 120,974
6 Claims. (Cl. 273—73)



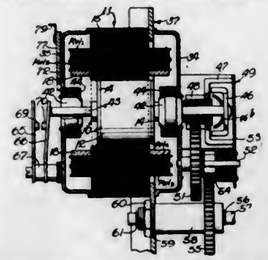
1. A game racket comprising a head-frame of tubular metal the tube thereof being of circular cross-section extending in continuity in an oval course all around the head of the racket and having the cross-section of the tube graduated smaller in size at the tip portion of the head; combined with a single tube of larger diameter, constituting the handle, split and spread at its head end; the said head-frame being embraced and secured in the grooves of the hollow half-round branches of the split handle.

2,164,632
ELECTROMAGNETIC VIBRATORY MOTOR
Edward L. Barrett, La Grange, Ill., assignor to Utah Radio Products Company, Chicago, Ill., a corporation of Illinois
Application June 25, 1934, Serial No. 732,234
7 Claims. (Cl. 200—90)



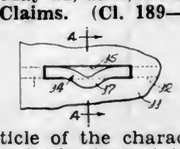
1. A vibratory motor comprising, in combination, a rigid frame divided to provide opposed flat faces located substantially on a central longitudinal plane of the frame, a vibratory member interposed and clamped directly between said faces in abutment with both, means for rigidly securing the parts in such relationship, and means for effecting vibration of said member.

2,164,633
ELECTRIC MOTOR
Edward L. Barrett, La Grange, Ill., assignor to Utah Radio Products Company, Chicago, Ill., a corporation of Illinois
Application October 15, 1937, Serial No. 169,095
13 Claims. (Cl. 172—36)



1. The combination in an electric motor of a stator having an energizing winding thereon, an inductively related rotor, means supporting said rotor for limited endwise movement as well as for rotational movement, means urging said rotor axially out of alinement with said stator, the magnetic attraction between said rotor and stator upon energization thereof serving to pull said rotor axially into alinement with said stator, a first clutch member loosely journaled on said rotor and having an outwardly and axially extending projection thereon, a second clutch member fast on said rotor and movable into and out of engagement with said projection as said rotor moves respectively into and out of alinement with said stator, and braking means including a fixed abutment engageable with said projection when said first clutch member is in its disengaged position for preventing overrunning thereof after disengagement, said first clutch member being shifted axially to engage said projection with said abutment by friction between said first clutch member and said axially movable rotor.

2,164,634
SHEET MATERIAL JOINT
Edward L. Barrett, La Grange, Ill., assignor to Utah Radio Products Company, Chicago, Ill., a corporation of Illinois
Application May 21, 1938, Serial No. 209,251
3 Claims. (Cl. 189—36)



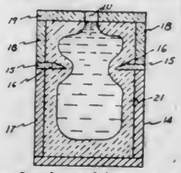
3. In an article of the character described a first sheet of metal having a laterally extending lug fashioned on one edge thereof and a second sheet of material having an opening therein receiving said lug with the outer end portion of said lug projecting beyond the outer surface of said second sheet, said lug having an outer end portion separated from the inner part thereof along a line lying substantially in the plane of the top of said second sheet thereby permitting

the displacement of said lug end portion out of the plane of the remainder of the lug without distorting the same, said separated end portion of said lug being distorted in the form of a laterally projecting rib with one end thereof abutting against the adjacent part of said second sheet to hold it fast against separation from the first named sheet.

2,164,635
PRODUCTION OF REFRACTORY MATERIAL

Raymond C. Benner and John Charles McMullen, Niagara Falls, N. Y., assignors, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware

Application December 30, 1935, Serial No. 56,706
3 Claims. (Cl. 49—79)

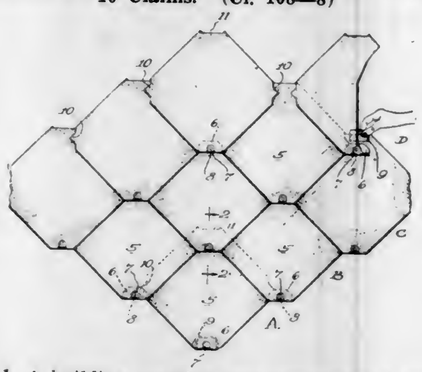


1. The method of making a refractory article which comprises molding molten refractory material into an intermediate article comprising a solidified outer shell having a casting hole, a re-entrant portion extending about the shell, and a molten center portion, causing deposition of solid material from the said molten center portion on the inner wall of the shell to build it up to the desired shape, removing excess molten material from the shell, and dividing the shell along the re-entrant portion to remove the portion of the shell including the casting hole and produce a hollow refractory article having an opening of substantial area.

2,164,636
BUILDING COVERING

Edward R. Black, Chicago, Ill.

Application January 12, 1938, Serial No. 184,632
10 Claims. (Cl. 108—8)

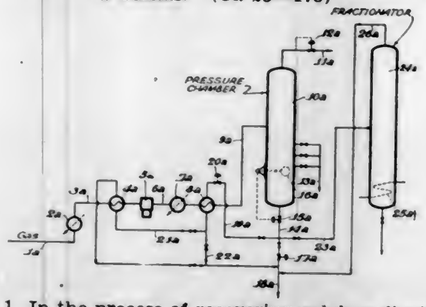


1. A building covering unit comprising a body portion; an anchoring portion turned under the body portion at one edge thereof, said body portion having a recess therethrough to the underlying anchor portion through which recess a nail may be applied through the anchor portion into the building framework without altering the normal relative positions of the body and anchor portions; and a nail-concealing unit for application between the body and anchor portions behind the recess in the body portion to cover the nail.

2,164,637
RECOVERY OF SULPHUR DIOXIDE FROM ACID SLUDGES

David W. Bransky, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application January 7, 1938, Serial No. 183,916
2 Claims. (Cl. 23—178)



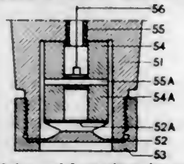
1. In the process of recovering sulphur dioxide from acid sludge wherein the acid sludge is decomposed by coking and a gas mixture comprising sulphur dioxide, gaseous condensible hydrocarbons, and non-condensible constituents is obtained, the improvement in effecting the separation of sulphur dioxide from said gas mixture which comprises removing entrained solid carbonaceous material from the gas mixture, cooling the gas mixture, introducing the cooled gas mixture into a scrubbing tower wherein the ascending gas mixture is countercurrently contacted with a cool aqueous medium whereby the condensible gaseous hydrocarbons are condensed and removed with the cooling aqueous medium from the scrubbing tower, passing the gas mixture from the scrubbing tower through a first heat exchanger to effect the cooling thereof, compressing the cooled gas mixture, passing the compressed gas mixture through a second heat exchanger to further cool the same, introducing the cooled compressed gas mixture into a pressure chamber wherein the mixture separates into a bottom layer comprising liquefied sulphur dioxide and a minor portion of liquid hydrocarbons and an upper layer of substantially pure liquid hydrocarbons, removing the uncondensible gas from said pressure chamber, separately removing from said pressure chamber the upper layer of substantially pure liquid hydrocarbons and the bottom layer comprising liquefied sulphur dioxide and a minor portion of liquid hydrocarbons, expanding a small portion of the sulphur dioxide layer in said heat exchangers to effect the cooling of the gases therein, passing the major portion of the sulphur dioxide layer to a fractionator wherein the liquefied sulphur dioxide and liquid hydrocarbon mixture is heated to fractionate the sulphur dioxide from the undesired hydrocarbons, and removing the sulphur dioxide as a distillate from the fractionator whereby substantially pure sulphur dioxide is obtained.

2,164,638
ELECTRICAL PRESSURE DETECTOR

Johannes Jan Broeze and Hendrik van Driel, Delft, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application April 8, 1938, Serial No. 200,972
In the Netherlands April 20, 1937
9 Claims. (Cl. 171—327)

1. In an electrical pressure detector, a cylindrical metallic casing open at one end, a relatively thin diaphragm closing said opening, the outside face of said diaphragm being exposed to the pressures to be measured, said diaphragm having a considerably thickened central portion capable to remain free of distortion when the diaphragm is subjected to outside pressures, an electrical element capable of converting mechanical pressure into electrical effects, said element

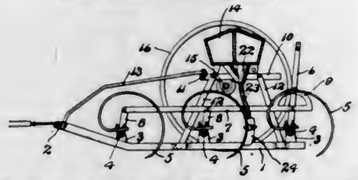


being held within said casing in contact with and under compression by said diaphragm, means locking said diaphragm with the casing, the tightening pressure between said means and the casing being substantially in excess of that applied to the electrical element, and an insulated conductor passing through the casing and connected to said electrical element.

2,164,639
GRAIN PLANTER

Philip Brower, Caledonia, Mich.

Application August 16, 1937, Serial No. 159,270
1 Claim. (Cl. 111—70)



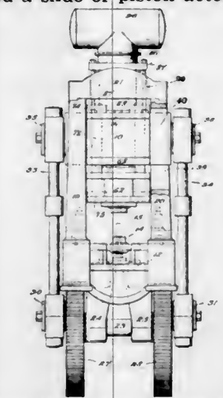
In a construction of the class described, the combination of a harrow unit including a frame having a plurality of harrow teeth thereon, said frame being adapted to have a sliding movement over the ground, a seeding unit comprising supporting wheels contacting with and having a rolling movement over the ground, a shaft on which the wheels are carried, a frame on which the shaft is mounted, a seed box mounted on and above said frame, said seeding unit being independently movable on said wheels whereby the harrow may be moved into a position between the wheels and underneath the seed box, and said wheels carrying the weight of the shaft, seed box, seed therein and frame of the seeding unit, bracing means between said harrow frame and the seed unit frame connected to the seed unit frame and having a detachable connection to the harrow frame, said seed box having a plurality of outlets for the passage of seed, and flexible conduits connected to said seed box one for each outlet and at their lower ends having a detachable connection to harrow teeth between the front and rear portions of the harrow.

2,164,640
PRESS COMBINATION HAVING MEANS FOR AVOIDING JAMMING

Earl Cannon, Rockville Centre, N. Y., assignor to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application May 6, 1937, Serial No. 141,033
11 Claims. (Cl. 207—2)

1. A press comprising tool-carrying parts, one a reciprocatory slide, mechanical means for reciprocating said slide with a definite stroke, and means for preventing the jamming or breaking of the press when the resistance encountered by the tool-carrying parts exceeds the rated working force of the press, said means comprising a tool support on one of said tool-carrying parts and movable relative thereto, hydraulic means between said tool-support and tool-carrying part for exerting hydraulic force on said tool support sufficiently great to prevent movement of said tool support by opposite forces exerted in performing the normal work of the press approximating the rated working force of the press, means for sustaining the action of the force of said hydraulic means on said tool-support in its normal position, and means for counter-balancing the hydraulic force acting upon the said hydraulic means, said counterbalancing means comprising an elastic means and a slide or piston acted on in opposite

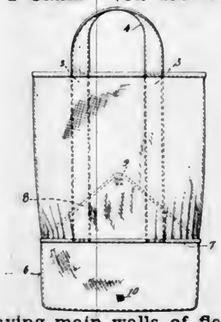


directions by said elastic means and by hydraulic pressure within said hydraulic means, said elastic means, upon an increase of hydraulic pressure, yielding until the increased pressure thereof, counterbalances the increased hydraulic pressure, said slide or piston which is oppositely acted on by said elastic means and hydraulic pressure moving when said elastic means yields so that liquid within said hydraulic means is displaced without venting or loss thereof, and said tool support may yield when it encounters a resistance approximately the rated working force of the press, said elastic means expanding after the abnormal resistance exerted on the tool-support has passed, to re-establish the parts in normal counterbalanced position.

2,164,641
BAG

Margaret M. Davenport, Los Angeles, Calif.

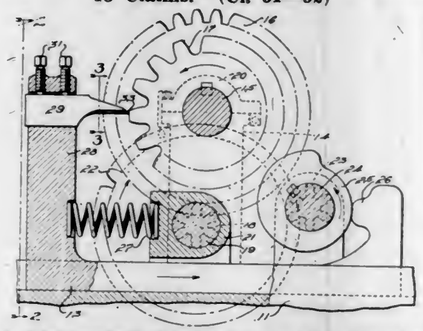
Application May 1, 1937, Serial No. 140,215
1 Claim. (Cl. 150—1.7)



A bag having main walls of flexible material, an inner wall of relatively small dimensions se-

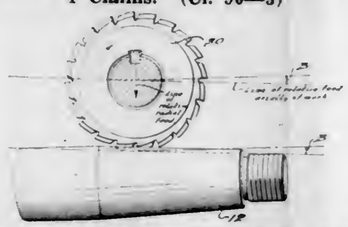
cured to the inner surface of one of said main walls and defining with the juxtaposed portion of the main wall an envelope open along one edge, a flap connected to said one edge of said inner wall and cooperating fastening means on said flap and on that surface of said inner wall which is within said pocket when the bag is in open position, said envelope being adapted to completely contain said bag when the bag is turned inside-out and then said envelope turned inside-out and said flap secured to said inner wall with said fastening means.

2,164,642
METHOD AND MEANS FOR CONSTRUCTING GEAR FINISHING TOOLS
Joseph C. Drader, Detroit, Mich., assignor to Michigan Tool Company, a corporation of Delaware
Application July 12, 1935, Serial No. 30,966
13 Claims. (Cl. 51—52)



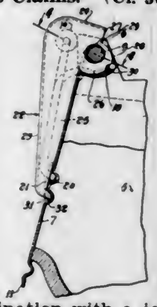
1. The method of machining a plurality of adjacently disposed slots in the working faces of the teeth of a gear-like cutting tool which includes the steps of rotating said tool, advancing a cutter having a plurality of spaced slotting lands across a said tooth at such a speed relative to the rotation of the tool as to have the lands follow the involute form thereof, and retarding such advancement near the root of the tooth to cause the tool to relatively move out of cutting engagement with the tooth as the tool continues to rotate.

2,164,643
METHOD OF CUTTING TAPERED SPLINE
Joseph C. Drader, Detroit, Mich., assignor to Michigan Tool Company, a corporation of Delaware
Application October 21, 1935, Serial No. 45,879
4 Claims. (Cl. 90—3)



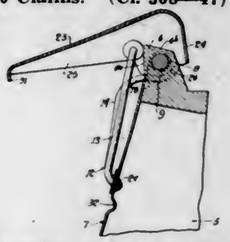
1. The method of forming serrations in an element having a tapered surface, parallel to the axis of rotation thereof, which comprises utilizing a hob having helically related teeth, fixing the hob and element against substantial relative movement transverse to the axis of the element except in a direction radially of the element and with the axes of the hob and element crossed at an angle determined by the helix angle of the hob, rotating the hob and element in synchronism with each other, and effecting a feed movement between the hob and element axially of the element in a plane which includes the axis of the element while maintaining a fixed distance between the axis of the hob and the surface of the element.

2,164,644
JOURNAL BOX LID
Otho C. Duryea, Waterbury, Conn.
Application July 22, 1936, Serial No. 91,821
13 Claims. (Cl. 308—47)



1. In combination with a journal box open at the front, a lid having a hinged connection with the box for opening and closing said front, a spring having a portion engaging the lid and a second portion engaging a part of the box, a lever-like member pivoted to the box for a swinging movement toward and away from the lid and having a relatively long power arm portion on one side of its pivot and a relatively short load arm portion on the other side of its pivot, said load arm portion engaging a third portion of the spring and operating when said member is swung toward the lid to energize the spring to hold said member against said lid and to hold the lid in its closed position against the open front of the journal box.

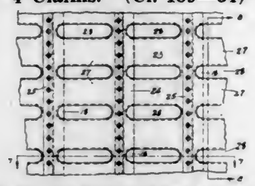
2,164,645
JOURNAL BOX LID
Otho C. Duryea, Waterbury, Conn.
Application July 22, 1936, Serial No. 91,822
10 Claims. (Cl. 308—47)



1. In combination with a journal box open at the front, a lid, a pin providing a hinged connection for the lid with respect to journal box for opening and closing the front thereof, a spring having a portion engaging the lid, a second portion engaging a part of the box and a third portion which is energizable to hold the lid in a closed position against the open front of the box, means movable independently of the lid, into positions for energizing and deenergizing said spring, one of said spring portions including a

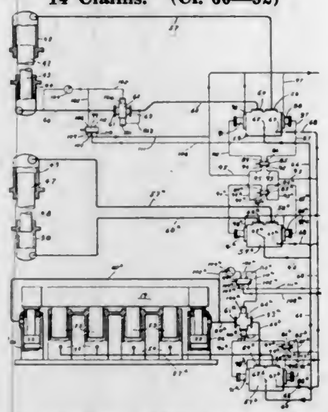
part which when the spring is being energized by said means, moving into a position to extend across the end of the pin to prevent endwise displacement thereof in one direction.

2,164,646
METALLIC WALL STRUCTURE
Knute Edahl, Chicago, Ill.
Application October 27, 1937, Serial No. 171,280
4 Claims. (Cl. 189—34)



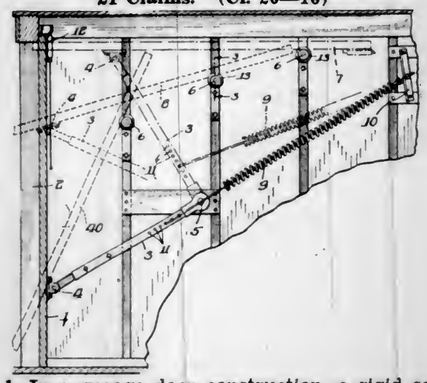
1. A metallic wall structure for railway cars, trucks, containers and the like, comprising metallic posts, single ply metallic sheathing extending between and secured to said posts, said sheathing having a substantially smooth inner face and embodying vertically arranged alternate solid portions and apertures, said solid portions around said apertures being formed with outwardly extending reinforcing flanges.

2,164,647
POWER TRANSMISSION
Arthur L. Ellis, Deep River, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application September 27, 1935, Serial No. 42,429
Renewed December 1, 1938
14 Claims. (Cl. 60—52)



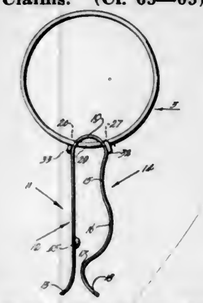
1. In a hydraulic power transmission circuit the combination of a variable displacement, unidirectional delivery, fluid pump, a prime mover for operating the pump, an intermittently operating hydraulic motor fed by the pump, an accumulator for storing variable amounts of fluid under pressure and means for controlling the displacement of the pump in response to variations in the amount of fluid stored in the accumulator, said means operating upon an increase in the quantity of fluid stored in the accumulator to decrease the pump displacement, and upon a decrease in the quantity of fluid stored in the accumulator to increase the pump displacement, and means energized concurrently with the displacement varying means for by-passing the pump when not operating at full displacement.

2,164,648
GARAGE DOOR CONSTRUCTION
William D. Ferris, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application June 13, 1938, Serial No. 213,307
21 Claims. (Cl. 20—16)



1. In a garage door construction, a rigid section forming the door, a doorway in which the door has a vertical closed position, and instrumentalities obviating the necessity of overhead tracks, for mounting the door to swing upwardly into an overhead and more or less horizontal position, by inward opening movement of the door at its upper end, said instrumentalities comprising pivoted arms for supporting the lower portion of the door, pivoted on the door and also on a stationary axis, so that the lower end of the door has a predetermined path of travel, a pair of springs for assisting in the opening of the door, and for cushioning the closing movement thereof, said springs arranged in position to prevent the door from having any opening or closing movement between them, and said instrumentalities also obviating the necessity of a fixed axis of tilting motion below the upper end of the door, for the initial opening motion of the latter, comprising devices having a plurality of fixed or stationary overhead pivotal points above said arms and springs, to control said movement of the upper end of the door.

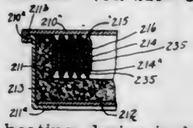
2,164,649
SPOON HOLDER FOR SAUCEPANS
Gertrude K. Forbes, Pasadena, Calif.
Application February 9, 1938, Serial No. 189,485
3 Claims. (Cl. 65—65)



1. In a device as described a clamp formed of a strap of resilient metal having an inner and an outer jaw connected by a reverse bend, a plurality of aligned perforations to the strap adja-

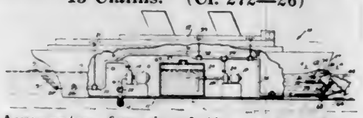
cent the reverse bend, a helical wire coil having the lower parts of its convolutions threaded each through a pair of aligned perforations and means on the ends of the wire to restrain unthreading.

2,164,650
HEATING PLATE DEVICE
Robert S. Goldthwaite, Marion, Ind., assignor to Rutenber Electric Company, Marion, Ind., a corporation
Application January 16, 1937, Serial No. 120,937
1 Claim. (Cl. 219—37)



An electric heating device including, a vessel or like supporting heat transmitting plate of comparatively thin section in thickness and of great area, means supporting said cover plate at its peripheral edge, an elongated continuous electric heating strip beneath the plate and of bare metallic resistance type ribbon of rectangular like section and wound on edge with one of its edges adjacent and substantially parallel to the cover plate, a corresponding heat conducting metal strip in juxtaposition to the heating strip, rigid with the cover for reenforcement thereof against warpage and correspondingly wound and having a corresponding edge in direct thermal contact with the cover for thermal conductivity, means electrically insulating the heating strip from the cover and the juxtapositioned reenforcing strip, the two strips being of scroll outline, the heat conducting strip including a groove in one side face thereof for laterally nesting the heating strip therein for locating purposes, the insulation means being at both sides of the heating strip, the strips and insulation being coiled into a compact mass, the heat conducting strip including a projecting portion at one side of the groove for rigid connection to the cover, and a heat deflecting plate beneath the heating and metal strips and spaced from the heating strip and associated with the cover supporting means.

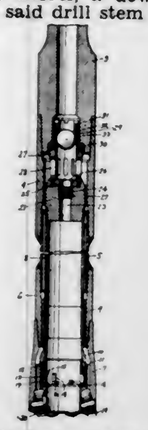
2,164,651
MINIATURE SHIP
Byron C. Haskin, Beverly Hills, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware
Application January 25, 1938, Serial No. 186,837
15 Claims. (Cl. 272—26)



1. Apparatus for simulating waves formed by a full sized ship travelling through a body of water comprising a miniature ship, and means carried by said miniature for artificially deflecting a stream of water upwardly adjacent said miniature from below the level of said body of water to form a wave when said miniature is moved through the water.

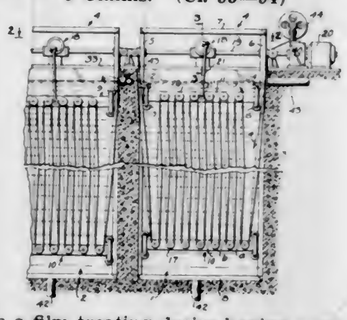
2,164,652
CORE DRILLING APPARATUS
John E. Hoffoss, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application January 8, 1938, Serial No. 183,977
5 Claims. (Cl. 255—72)

1. In combination, a drill stem, a core drill on the lower end thereof, a core barrel extending upwardly from said core drill within said drill stem and having an opening at its upper end, said drill stem having slush passages therein outside of said core barrel, a downwardly facing valve seat within said drill stem above said core



barrel, an upwardly facing valve seat within the opening at the upper end of said core barrel, a cage extending between said valve seats and a valve movable within said cage to seat against either of said valve seats.

2,164,653
APPARATUS FOR TREATING CINEMATOGRAPHIC FILM
Fred W. Jackman, Beverly Hills, Calif., assignor to Warner Brothers Pictures, Inc., New York, N. Y., a corporation of Delaware
Application October 28, 1935, Serial No. 47,153
9 Claims. (Cl. 95—94)

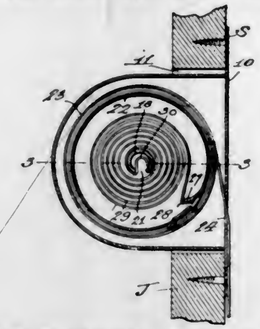


1. In a film treating device having a container for a film treating solution, the combination of means for progressing a film through said solution, film supports for guiding the film in a plurality of loops through the solution and means for cyclically reciprocating one of said film supports to reciprocate the other of said film supports and the film while said film is progressing through said solution.

2,164,654
SPRING SASH BALANCE
Albert H. Kersting, Los Angeles, Calif.; Nelle Frances Kersting executrix of said Albert H. Kersting, deceased
Application November 8, 1937, Serial No. 173,421
1 Claim. (Cl. 16—198)

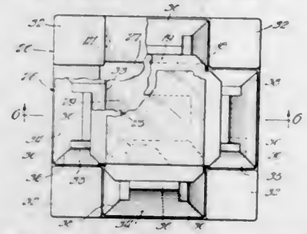
A spring sash balance comprising a two-part housing, one of which parts includes a face plate,

said face plate having a pocket, a lip projecting from the other part of the housing into said pocket, a tubular member connecting the intermediate portions of the parts of said housing, said tubular member being provided with a slot, a drum mounted for rotation on said tubular member, a lip projecting inwardly from the periphery of said drum, a spiral spring, a hook formed on the inner end of said spiral spring, said hook being positioned within said tubular member with



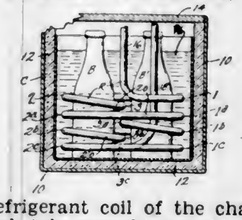
the free end of said hook engaging the inner surface of said tubular member opposite that side of the slot engaged by the spring in passing through said slot, a hook on the outer end of said spring, which hook engages the lip on said drum, a tape of flexible metal carried on the periphery of said drum, the inner end of which tape is secured to said drum and the outer portion of which tape passes through an opening in said face plate.

2,164,655
STEREOPTICON SLIDE AND METHOD AND MEANS FOR PRODUCING SAME
Bertel J. Kleerup, Chicago, Ill.
Application October 28, 1937, Serial No. 171,439
4 Claims. (Cl. 88—26)



1. Apparatus for producing stereopticon slides embodying an initially unbound slide including a plate and edge binding therefor, comprising a cruciform resilient pad of sponge rubber or like material having a central portion conforming to the final shape and size of the slide and having four uniform mitered thickened extensions receiving the unfolded marginal binding thereon with the plate overlying the central portion, ridges on said extension forming stops for said binding, said extensions being readily yieldable at their juncture with said central portion to permit bending thereat and foldable into mating box form over said central portion with said faces at least partially disposed in a common plane parallel with said central portion and closely overlying margins thereof, and carrying the binding about the edge of the plate when the plate and binding are pressed upon said central portion and the extensions so folded.

2,164,656
REFRIGERANT COIL
Emil William Kretschmer, Shrewsbury, Mo.
Application January 26, 1938, Serial No. 187,003
3 Claims. (Cl. 62—126)



2. In a refrigerant coil of the character disclosed, a single tube wound to provide spaced portions arranged in three vertical planes between which containers of commodities to be cooled may be placed with substantially equal distance for heat travel from said containers to said tube portions, said tube being so arranged as to conduct cooling medium from one of said planes to a second one of said planes, then to the third plane, said third plane being intermediate the first and second planes, then to the second plane, then to the first plane and then to the third plane, said tube being so arranged that spaces are left between the first and third planes and between the second and third planes for rows of containers of commodities to be cooled by the refrigerant coil.

2,164,657
BRACELET OR THE LIKE
Nat Levy, New York, N. Y.
Application October 18, 1937, Serial No. 169,627
1 Claim. (Cl. 24—73)

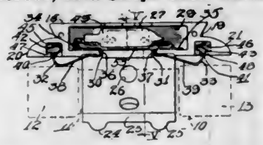


In combination, a band, a separable fastener for the ends of said band, comprising a plate secured at one end to one end of the band and having a keeper at the opposite end, a spring catch secured to the opposite end of the band and releasably engageable with said keeper on said opposite end of said plate, a mounting plate secured over the face of said first plate between the ends of the same and having spaced projecting hinge lugs at one side of said first plate and a projecting cam flange between said hinge lugs, an ornamental clasp plate having spaced rearwardly projecting hinge lugs pivotally engaged with said hinge lugs of the mounting plate, a bowed spring engaged between said rearwardly projecting hinge lugs and riding over said cam flange of the mounting plate, said ornamental clasp plate having a movement over the face of said mounting plate and the latter having a projection or projections cooperable with the back of the ornamental clasp plate for releasably retaining a handkerchief, scarf or the like.

2,164,658
FUSE INDICATOR AND PULLER
Leon P. Lyon, Miami Beach, Fla.
Application July 2, 1936, Serial No. 88,589
1 Claim. (Cl. 200—121)

A detachable fuse puller and indicator for a cartridge type fuse comprising an elongated body portion of insulating material and of substantially the same length as the fuse, an integrally

formed curved member extending from said body and intermediate the ends thereof to engage the body of the fuse, means on said body to yieldingly retain the fuse in position in the puller while the fuse is being pulled, said means comprising a pair of reversely curved and oppositely directed contact strips of springy material extending below the underside of the body and towards the opposite ends thereof, said strips each having one end



thereof secured within said body and having the free end curved upwardly towards said body, means to guard the free ends of said strips comprising sockets formed in said body and arranged receiving the free ends of said strips, means in the sockets engageable with the free end of a strip to limit outward movement of said end, and an indicator in said body in conductive connection with said pair of strips.

2,164,659

LOOSE LEAF BINDER

Donald McChesney and James Cooper, Solvay, N. Y., assignors to Hall & McChesney, Inc., Syracuse, N. Y., a corporation of New York

Application June 18, 1936, Serial No. 85,956
3 Claims. (Cl. 129—24)



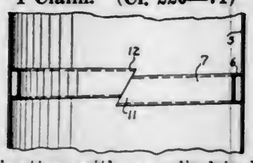
1. A loose leaf binder comprising a back member, a housing extending along the longitudinal edge of the back member and extending outwardly at an oblique angle relatively thereto, a plurality of leaf retaining posts being secured at like ends to said housing, a cover hinged to the back member adjacent said housing, said cover being formed on its inner face with leaf engaging projections extending toward said housing, and said housing being provided with notches in its outer edge, said notches being arranged to permit said projections to be moved through said housing during opening and closing of the cover.

2,164,660

TANK REINFORCING RING

Arthur O. Miller, Youngstown, Ohio, assignor to The Petroleum Iron Works Company of Ohio, a corporation

Application October 30, 1936, Serial No. 108,330
1 Claim. (Cl. 220—71)



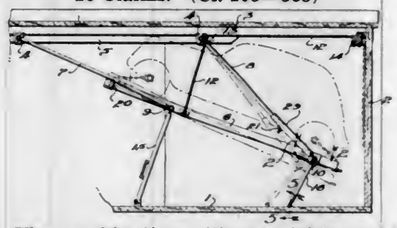
In combination with a cylindrical structure, an inner reinforcing ring comprising a circular band of heavy resilient material the outer diameter of which is the same as the inner diameter of said structure, said ring being split longitudinally of the ring at one point, the split being on a plane inclined relative to a diametrical plane of the ring whereby the ends of said band may be sprung together while said ring is inserted into working position and the ends at the split portion then wedged together with force to expand said ring into reinforcing position.

2,164,661

CAR LOADING DEVICE

Sulo M. Nampa, Detroit, Mich., assignor to The Worth Company, a corporation of Michigan

Application October 26, 1935, Serial No. 46,851
16 Claims. (Cl. 105—368)



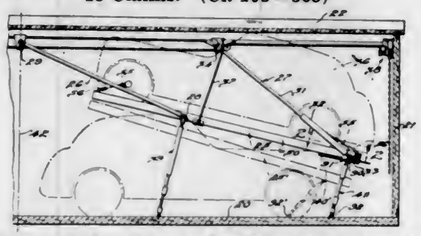
1. The combination with a freight car of an automobile loading frame, a member fixed with respect to said car, a tension member swingably connecting the said frame with said first member for movement of said frame into a decking position, means to fix the point of connection between said tension member and said frame at any one of a plurality of points for varying the path of movement and the decking position of the frame, and means to effect said movement of the frame into said decking position.

2,164,662

CAR LOADING DEVICE

Sulo M. Nampa, Detroit, Mich., assignor to The Worth Company, Detroit, Mich., a corporation of Michigan

Application July 8, 1937, Serial No. 152,600
18 Claims. (Cl. 105—368)



1. In combination, a freight car, an automobile loading frame, means for securing the frame in the car including a pair of arms pivoted at their upper ends to the car on longitudinally spaced axes and at their lower ends to the frame at opposite ends of the frame respectively, said arms being adapted to swing the frame from a position adjacent the floor to an elevated transport position, and means to adjust the point of connection between one of said arms and said frame with respect to one of them to vary the transport position of the frame.

2,164,663

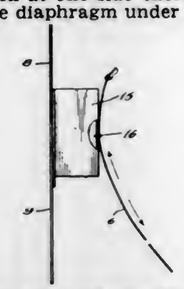
PHONOGRAPH DEVICE

Ladis H. Ottofy, Chicago, Ill.

Application October 25, 1937, Serial No. 170,829
6 Claims. (Cl. 46—189)

1. In a phonographic device, the combination

with a display sheet forming a sounding diaphragm, of a sound record strip having a recorded sound track at one side thereof, and a staple secured to the diaphragm under which the sound



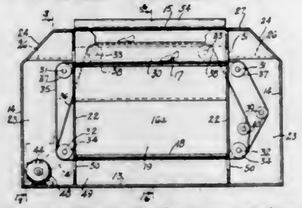
strip is tightly but slidably inserted and against which it is moved for transmitting the vibrations produced by the relative movement of the staple and the sound strip to the diaphragm.

2,164,664

AUTOMATIC SHOE DISPLAY DEVICE

Wilbur H. Parkison, Chattanooga, Tenn.

Application June 7, 1938, Serial No. 212,278
1 Claim. (Cl. 312—134)



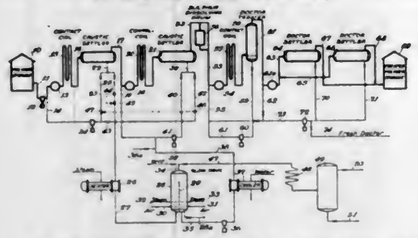
A display device including a cabinet having a plurality of endless traveling belts having article holding means, said belts having adjacent runs at different elevations, said cabinet having a window confronting said runs of the belts, said cabinet having a vertical wall extending along and between said runs of the belts up to the upper belt to conceal the edges thereof, said cabinet having a wall concealing the other portions of the belts, whereby only the upper runs of the belts are visible through said window, to appear like traveling floors for the articles, and means for driving the belts.

2,164,665

SWEETENING HIGH-SULPHUR MOTOR FUELS

Thomas Hunton Rogers and Bernard Harvey Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application May 1, 1937, Serial No. 140,106
17 Claims. (Cl. 196—32)



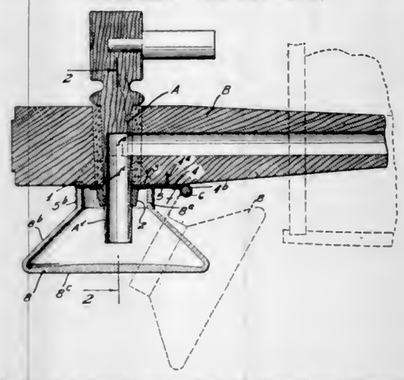
1. In the process of refining a petroleum naphtha containing substantial quantities of mercaptans but substantially no hydrogen sulphide by contacting with aqueous caustic solution in a series of treating zones, the steps comprising removing the caustic solution from each treating zone, returning a portion of said caustic solution to the treating zone from which it was removed, introducing the remaining portion of said caustic solution from the second and succeeding treating zones into the treating zone preceding that from which it was removed, revivifying the remaining portion of said caustic solution from the first treating zone, and introducing the revivified caustic solution into the last treating zone.

2,164,666

SANITARY AUTOMATIC FAUCET PROTECTOR

Charles M. Simmons, San Diego, Calif.

Application April 27, 1937, Serial No. 139,177
6 Claims. (Cl. 137—111)



1. In a faucet protector of the class described, the combination with a nozzle tip of a fixed arm extending laterally from said nozzle tip, a movable arm hinged to said fixed arm at its extended end, a depending cup mounted on said movable arm and adapted to register with the nozzle tip, supporting washers associated with said fixed arm and secured around said nozzle tip, yieldable means normally retaining said movable arm in closed position, said depending cup provided with a downwardly diverging cam surface extending from one side thereof, said cam surface arranged to rotate said movable arm against action of said yieldable means upon the movement of a receptacle into registry with said nozzle tip.

2,164,667

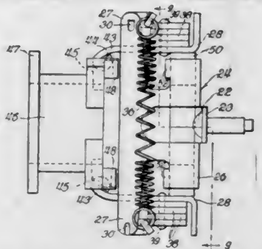
MOTOR SWITCH

John B. Sinnett, Howell, Mich., assignor to Howell Electric Motors Company, Howell, Mich., a corporation of Michigan

Application December 30, 1936, Serial No. 118,301
20 Claims. (Cl. 200—80)

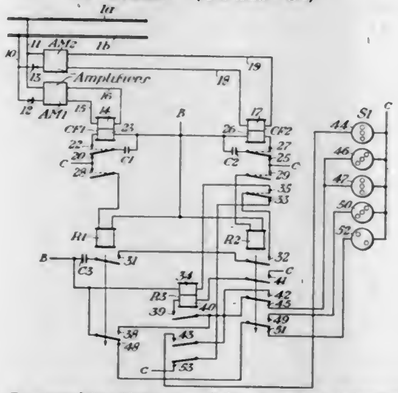
8. Actuating means for a centrifugal switch which is responsive to the speed of rotation of a rotary member, comprising a bracket secured to said rotary member and having parallel spaced arm portions on opposite sides of the rotary member, pivots extending between the extremities of said arm portions, actuator arms carried by said pivots and including projecting inwardly curved ends, an actuator sleeve on the rotary member having diametrically opposite pockets for receiving said ends to produce sliding movement of said sleeve upon rotation of said arms about said

pivots, a stop member carried by said bracket limiting pivotal movement of said arms in one



direction, and spring means between said arms normally urging said arms toward said stop member.

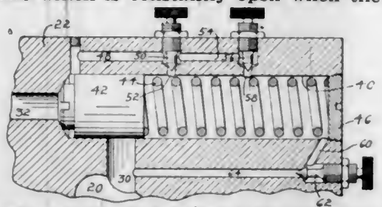
2,164,668
RAILWAY TRAFFIC CONTROLLING APPARATUS
Andrew J. Sorensen, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 7, 1938, Serial No. 217,944
10 Claims. (Cl. 246—34)



1. In combination, receiving means selectively responsive to the polarity of each impulse of different signalling currents of the polarity code type and which currents consist of uniformly recurrent impulses of current; decoding means controlled by said receiving means operated to a first position when such recurrent impulses of current of positive polarity are supplied to said receiving means, operated to a second position when such recurrent impulses of current of negative polarity are supplied to said receiving means and operated to a third position when such recurrent impulses of current alternately of positive and negative polarity are supplied to said receiving means; and means governed by said receiving means to require at least two reversals of polarity of said current impulses to effect said third position of the decoding means.

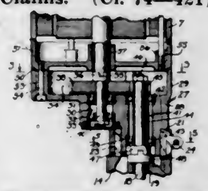
2,164,669
RELIEF VALVE FOR POWER TRANSMISSION SYSTEMS
William Thomas, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application November 27, 1936, Serial No. 112,907
10 Claims. (Cl. 137—53)

9. In a fluid pressure device having a pressure conduit, means forming a conduit through which pressure fluid may be relieved to a point of lower pressure, a piston valve normally closing said last conduit and subject to the pressure in the first conduit acting in a direction tending to open the valve, means forming a cylinder one end of which is closed by the piston valve, means forming a by-pass path from the first to the second conduit which is constantly open when the pis-



ton valve is closed, said by-pass communicating with said cylinder and being restricted so as to provide a pressure drop characteristic such that the pressure effective in said cylinder rises less than the pressure in the first conduit when the latter pressure rises whereby the oppositely acting fluid pressure forces on said piston valve are equal only at a predetermined pressure in said first conduit.

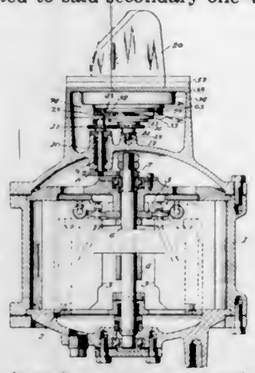
2,164,670
POWER TRANSMISSION UNIT
William Thomas, Glendale, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware
Application December 13, 1937, Serial No. 179,517
4 Claims. (Cl. 74—421)



1. A gear unit comprising a casing, an annular flange extending from one side of said casing to form a well, a seat on said flange for receiving the end of a motor, a gear, means for rotatably supporting said gear in said well, a coupling member concentric with said flange and operatively connected to said gear, said coupling member being adapted to couple said gear to said motor on relative axial movement of said motor and said casing, a second gear, means for rotatably supporting said second gear in said well in mesh with said first mentioned gear, a bearing housing extending from said casing and adapted to fit a second casing, and a coupling member concentric with the bore of said bearing housing, said coupling being operatively connected to said second gear and adapted to couple said second gear to a coupling member rotatably supported by said second casing on relative axial movement of said first and second mentioned casings.

2,164,671
FLUID METER
Einar Thoresen, Pittsburgh, Pa., assignor to Pittsburgh Equitable Meter Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application April 20, 1938, Serial No. 203,086
4 Claims. (Cl. 74—133)

1. In a compensated drive, a driving shaft, a driven member, a primary one-way clutch member operated by said driving shaft to rotate said driven member in one direction, a secondary one-way clutch member adapted to rotate said driven member when turned in the same direction, a gear connected to said secondary one-way clutch



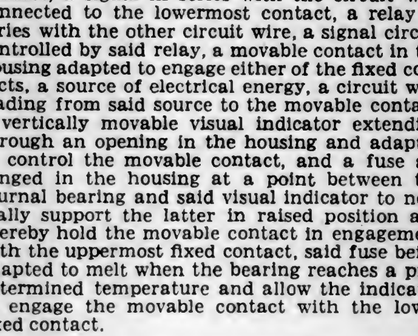
member, a pivoted gear segment rotating with the primary clutch member in mesh with said gear, and means for oscillating said segment to impart an overdrive impulse to the driven member.

2,164,672
BOMB RELEASE MECHANISM
Harry F. Vickers, Washington, D. C.
Application November 4, 1935, Serial No. 48,085
3 Claims. (Cl. 89—1.5)

1. Bomb retaining and release mechanism comprising, means to hold a bomb in position, light weight high speed motive means, and motion transmitting means between said first means and said motive means whereby said first means may be actuated to release a bomb, including a clutch normally disconnecting said first means and said motive means and means for actuating said clutch to connect and disconnect said first means and said motive means.

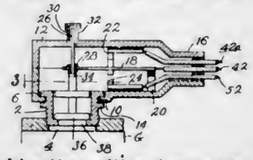
2,164,673
STARTING MECHANISM FOR EXPLOSIVE ENGINES
James L. Yarian, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application December 18, 1936, Serial No. 116,635
5 Claims. (Cl. 74—6)

1. In starting mechanism of the class described, wherein is embodied a rotatable shaft in coupled relation to the piston of an explosive engine with one of its ends projecting at the exterior of the engine casing, and also including an operating lever pivotally mounted on the engine casing and provided with a segment gear, a toothed driving member carried by said shaft and freely rotatable thereon, said driving member having a reduced neck at one of its ends, said driving member being engaged by the segment gear of said operating lever, a driven member directly mounted on said shaft in line with said driving member and fixedly connected to said shaft, said driven member being open at one of its ends



and tubular in form, the open end of said driven member receiving the neck of said driving member, and means within said tubular driven member connected to the neck of said driving member and serving to connect the driving member to the driven member when said operating lever is depressed.

2,164,674
HOT BOX DETECTOR AND SIGNAL APPLIANCE
Henry M. Ziegler, Salina, Kans.
Application April 12, 1937, Serial No. 136,443
5 Claims. (Cl. 246—169)

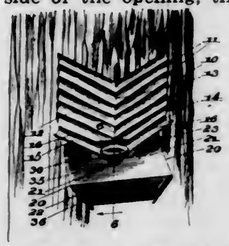


1. In combination with a journal box, a bearing in said journal box, and a journal for said bearing, two fixed contacts spaced one above the other in said housing, a circuit wire connected to each contact, a signal in series with the circuit wire connected to the lowermost contact, a relay in series with the other circuit wire, a signal circuit controlled by said relay, a movable contact in the housing adapted to engage either of the fixed contacts, a source of electrical energy, a circuit wire leading from said source to the movable contact, a vertically movable visual indicator extending through an opening in the housing and adapted to control the movable contact, and a fuse arranged in the housing at a point between the journal bearing and said visual indicator to normally support the latter in raised position and thereby hold the movable contact in engagement with the uppermost fixed contact, said fuse being adapted to melt when the bearing reaches a predetermined temperature and allow the indicator to engage the movable contact with the lower fixed contact.

2,164,675
TURPENTINE CUP
Edgar E. Prance and John Elwin Sheffield, Quitman, Ga.
Application November 22, 1938, Serial No. 241,860
3 Claims. (Cl. 47—11)

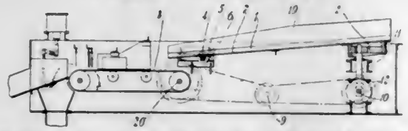
1. A device of the character described comprising a base plate having an opening near one

side edge, flanges depending from the ends of said plate and inclined inwardly towards each other, a back plate extending upwardly from the first-mentioned side edge of the plate and adapted to be secured to a tree trunk, an inclined gutter at each side of the opening, the inner free



ends of the gutters projecting into the opening, a shield removably mounted on the back plate, covering the opening and operating to maintain the inner ends of the gutters in the opening, said base plate forming a covering for a turpentine cup slidably supported by the flanges.

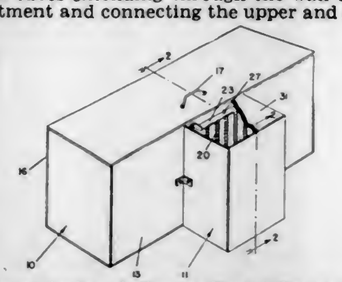
2,164,676
VIBRATORY CHUTE
Kenelm Charles Appleyard, Birtley, and Stanley Dallas Pollitt, Newcastle-on-Tyne, England, assignors of one-third to The Birtley Company Limited, Birtley, England
Application July 27, 1936, Serial No. 92,920
In Great Britain August 2, 1935
1 Claim. (Cl. 198—220)



Apparatus for marshalling materials such as coal of size one inch cubes and upwards into files including a downwardly inclined chute or the like having a longitudinally corrugated upper surface with corrugations suitable for the transmission of the aforesaid material of one inch cube and upwards which corrugations extend uninterruptedly from end to end of the chute, means for imparting a curvilinear motion to the higher end of the chute, means feeding aforesaid lumps of material to the higher end of the chute, and means for causing the lower end of the chute to move in a rectilinear path substantially parallel to the longitudinal axis of the chute, the corrugations being wider at the lower end of the chute than at the upper end of the chute, and the delivery end of the chute being of arched form.

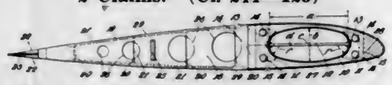
2,164,677
COLD CHEST
Marcel Banke, Detroit, Mich., assignor to Cold Chest Holding Company, Detroit, Mich., a corporation of Michigan
Application October 26, 1936, Serial No. 107,715
2 Claims. (Cl. 62—101)

2. In refrigerating apparatus, a compartment adapted to be suspended in an opening in the window casement of a building and having one side thereof exposed to the relatively cool outside atmosphere, a cooling tube disposed within said compartment for cooling the contents thereof and containing a fluid adapted to expand upon the absorption of heat from said compartment, a radiator tube disposed upon the exterior of said compartment in contact with the outside atmosphere and containing a fluid adapted to contract upon the radiation of heat to the atmosphere, and a pair of tubes extending through the wall of the compartment and connecting the upper and lower



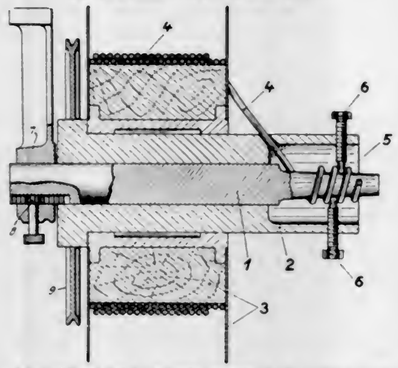
ends respectively of the cooling tube and the radiator tube to effect a circulation of fluid upon the expansion thereof in the cooling tube and the contraction thereof in the radiator tube.

2,164,678
ROTARY BLADE OR WING FOR AIRCRAFT
James Allan Jamieson Bennett, Esher, England, assignor, by mesne assignments, to Autogiro Company of America, a corporation of Delaware
Application October 15, 1936, Serial No. 105,794
In Great Britain October 15, 1935
2 Claims. (Cl. 244—123)



1. For an aircraft sustaining rotor, a rotor blade having a main longitudinal structural member of one-piece tubular construction and of substantially oval cross section, extending throughout most of the length of the blade; and ribs at intervals along the blade each comprising a solid block apertured to receive the main structural member, clips secured to either end of said block, and a truss-like trailing member secured to one of said clips; and means cooperating with said clips to secure the ribs on the spar.

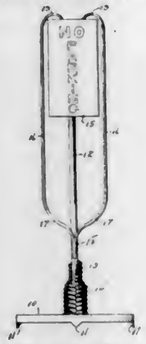
2,164,679
PROCESS OF AND APPARATUS FOR MANUFACTURING HELICES
Alfred Braun, Cologne-Mulheim, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany
Application January 15, 1937, Serial No. 120,805
In Germany January 25, 1936
4 Claims. (Cl. 153—67)



1. A method of manufacturing spacer elements which consists in the steps of, winding a strand

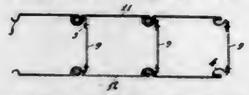
in the form of a helix, varying the inner diameter of the helix when the thickness of the strand varies whereby the outer diameter of the helix is rendered uniform.

2,164,680
FLEXIBLE PARKING SIGN
Hugh Hooper Donovan, Montgomery, Ala.
Application April 22, 1938, Serial No. 203,666
4 Claims. (Cl. 40—145)



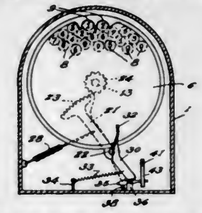
1. A flexible traffic or parking sign comprising a standard resiliently mounted at its lower end whereby to be yieldably sustained in a normal upright position, a legend-bearing panel on the upper front side of said standard, and a guard frame carried by the standard in cooperative relation to said legend-bearing panel, said guard frame including a pair of longitudinal bars extending substantially parallel to the axis of said standard in spaced relation to each other and respectively spaced forwardly from said legend-bearing panel and laterally from the opposite side margins of said panel, the upper end portions of said bars being turned inwardly and convergently above the panel and rigidly attached to the adjacent end portion of the standard, the lower end portions of said bars being likewise turned below the panel and secured to the lower portion of the standard.

2,164,681
METALLIC PLATE ELEMENT FOR BUILDING PARTS
Maurice Fould, Paris, France, assignor to Forges de Strasbourg (Societe Anonyme), Paris, France, a company of France
Application February 14, 1936, Serial No. 63,952
In France November 18, 1935
5 Claims. (Cl. 189—34)



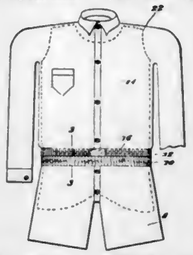
5. In a prefabricated structure, the combination with a series of plate elements forming a structural wall, each such element comprising a body having a male marginal portion shaped to provide a gutter extending lengthwise of such marginal portion and an oppositely disposed female marginal portion shaped to provide a complementary gutter extending lengthwise of such marginal portion with the body of said element partly overlying said last named gutter, said female marginal portion being further shaped adjacent its outer edge to provide a flange extending laterally of the plane of the body on that side of the body on which the gutter is formed, said elements being assembled with the gutter formed at the male marginal portion of one element received within the gutter formed at the female marginal portion of the adjacent element, of a second series of plate elements forming a second structural wall disposed in spaced relation and in general parallelism with said first wall, the elements of the second series being formed to provide laterally extending flanges, the said flanges of the elements of the two series extending toward one another, and means for rigidly connecting the said flanges of the two series.

2,164,682
GAME APPARATUS
Henry M. Keith, Spokane, Wash.
Application May 3, 1938, Serial No. 205,815
8 Claims. (Cl. 273—144)



1. A game apparatus comprising a support, a casing carried by said support and rotatable about a horizontal axis and having a transparent front wall, pockets being formed within the casing about the periphery thereof and extending radially of the casing, means for yieldably holding said casing stationary with the pockets at the top of the casing, the casing being filled with a fluid, counters freely movable in said casing, the counters being of less specific gravity than the fluid whereby they are adapted to rise therein and certain of the counters enter said pockets, and means for turning the casing about its axis to dislodge the counters for random entry of certain of the counters in the pockets when the casing is restored to its normal position and the counters move upwardly therein toward the pockets.

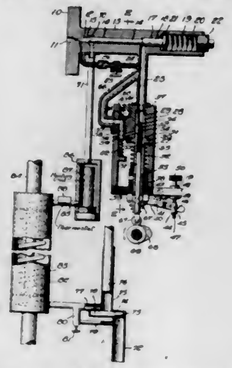
2,164,683
GARMENT
Frederick Charles Kessler, Rutherford, N. J.
Original application December 3, 1935, Serial No. 52,706. Divided and this application October 6, 1937, Serial No. 167,623
2 Claims. (Cl. 2—70)



1. In combination, a tailless top shirt, a two-piece undergarment consisting of a pair of shorts, and an undershirt secured together at the waistline thereof by means of a two-way elastic band, and means secured to the lower portion of the

top shirt and the upper portion of the elastic band for detachably securing said top shirt to said elastic band.

2,164,684
METHOD OF INJECTING FUEL INTO INTERNAL COMBUSTION ENGINES
Joseph G. Kimmel, Sarasota, Fla.
Application February 6, 1937, Serial No. 124,478
6 Claims. (Cl. 123—32)



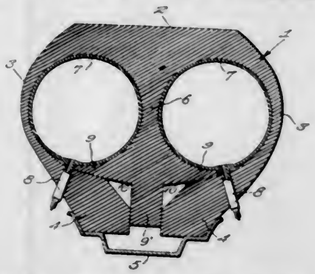
6. The method of injecting fuel charges into an internal combustion engine cylinder through an injection nozzle, which comprises supplying a relatively heavy hydrocarbon fuel oil to the nozzle, and subjecting it to the injection action of a lighter hydrocarbon compound under temperature and pressure conditions approximating critical conditions, at least one of such conditions being above the critical point.

2,164,685
MANIFOLDING
Brice W. Kinyon, Audubon, N. J.
No Drawing. Application April 21, 1937, Serial No. 138,278
3 Claims. (Cl. 282—1)

1. The method of producing fixed manifold copies upon a copy receiving member which comprises the steps of superimposing upon said copy receiving member a transfer sheet having on the face thereof in contact with the copy receiving member a pigment dispersed in a carrier which becomes more or less fluid under the influence of heat, transferring a portion of said pigment and carrier to the surface of said receiving member by applying pressure to the back of said transfer sheet at spaced points thereof to form spaced intelligible characters on said copy receiving member, thereafter subjecting said manifold copies to the influence of heat to cause an absorption of carrier and pigment in said copy receiving member.

2,164,686
INNER WALLED TIRE
Floyd Raymond McDevitt, Omaha, Nebr.
Application April 24, 1937, Serial No. 138,849
1 Claim. (Cl. 152—340)

A pneumatic tire comprising a shoe including a tread portion, side walls and rim flange receiving beads, a partition integral with the tread portion and extending inwardly and centrally therefrom to cooperate with the side walls and tread portion to provide chambers for receiving inflatable inner tubes, said partition having its inner portion increased in thickness to form oppositely disposed laterally directed flanges extending within the chambers and being beveled to fittingly engage with the side walls along the juncture thereof with the beads, a rib formed on and extending centrally from the flanged portion of the partition and disposed between

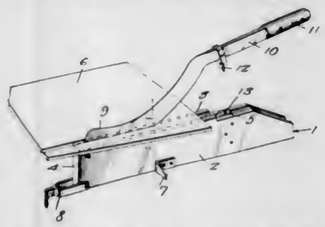


the beads to hold the latter engaged with the flanges of the rim, said side walls having openings therein at the juncture thereof with the beads, and said flanges being apertured adjacent the outer edges thereof for registration with the openings in the side walls for receiving valve stems of the tubes.

2,164,687
PHOTOGRAPHIC DEVELOPER AND SUBSTANCES ADDED IN PREPARING THE SAME
Max Nassau, Berlin-Wilmersdorf, Germany, assignor to the firm: Chemische Fabrik Grunau, Landshoff & Meyer Akt. Ges., Berlin-Grunau, Germany, a company of Germany
No Drawing. Application October 27, 1937, Serial No. 171,210. In Germany September 2, 1936
4 Claims. (Cl. 95—88)

1. A photographic developer containing developing agents, and 1–15% of protein decomposition products of medium to higher molecular weight substantially within the range of the molecular weights of lysalbinic acid and gelatose, the molecules of said protein decomposition products being built up of at least 5 amino-acids.

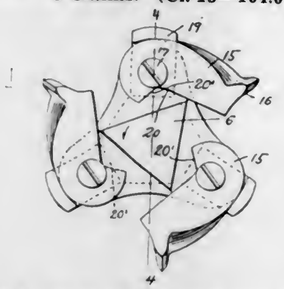
2,164,688
SLATE CUTTER AND PUNCH
Hugh Lucas Parsons, Pen Argyl, and Stanley Schwork, Bangor, Pa.
Application November 18, 1937, Serial No. 175,316
3 Claims. (Cl. 125—23)



2. A slate cutting tool comprising a support embodying spaced parallel plates defining a knife slot therebetween and adapted to hold on their upper edges the material to be cut, and a knife blade of arcuate form pivoted at one end between said plates adjacent one end thereof, the knife blade being of cross-sectionally tapering form with the wider edge constituting the cutting edge which is on the outside of the arc, the cutting

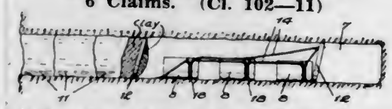
edge progressively increasing in width from the pivoted end of the blade to the opposite end thereof.

2,164,689
TUBE AND PIPE CLEANER
Chester L. Shobe, Great Bend, Kans.
Application October 12, 1937, Serial No. 168,671
5 Claims. (Cl. 15—104.07)



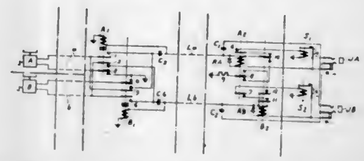
5. In a device of the class described a short rotary shaft having a substantially triangular cam head on one end thereof, a short tubular member rotatably arranged on the shaft and provided with a head over which the cam head rotates, said heads being arranged at right angles to the shaft and tubular member and the head of the tubular member being of substantially triangular shape, hammers of elongated form and arranged parallel to the outer face of the head of the tubular member, pivot members pivoting the hammers adjacent one end thereof to the end portions of said triangular head, the inner portions of said ends of the hammers having cam parts for engagement by the cam head for forcing the hammers inwardly and the inner edges of the hammers having substantially straight portions for engagement by the cam head for forcing the hammers outwardly, the free ends of the hammers having outwardly extending projections provided with beveled free edges which slope from the front face of each hammer to the rear face thereof, each pivotal member including a bolt having an eccentric part which passes through a hammer and a set screw in the triangular-shaped head and engaging a part of the bolt for holding the bolt in adjusted position.

2,164,690
PLUG INSERT FOR BORE HOLES FOR CUSHION BLASTING IN GASEOUS MINES
František Stružík, Petrvald, Czechoslovakia, assignor of one-third to Josef Dvorak, Moravska Ostrava-Vitkovice, Chodska, Czechoslovakia, and one-third to Karel Pokorny, Moravska Ostrava-Zabreh, Moravska, Czechoslovakia
Application April 30, 1937, Serial No. 140,044
In Czechoslovakia May 4, 1936
6 Claims. (Cl. 102—11)



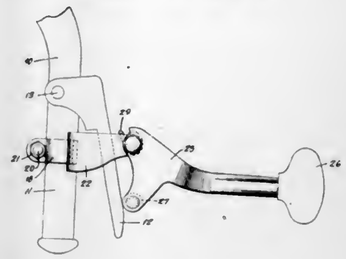
1. A plug for a shot hole for blasting comprising the combination of a cylindrical flat insert of incombustible material provided with an opening, a pulling member comprising a flexible cord anchored in said opening, and a plastic body formed around and embedding said insert and the anchored portion of the cord.

2,164,691
TELEPHONE SYSTEM WITH TWO-PARTY LINES
Harald Valdemar Alexandersson and Erik Waldemar Hullegård, Stockholm, Sweden, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden
Application February 18, 1938, Serial No. 191,330
In Sweden November 26, 1936
8 Claims. (Cl. 179—33)



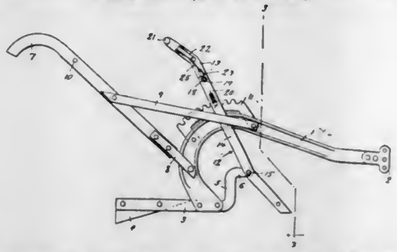
1. In a telephone system, a common line, a junction equipment connected to one end of said common line, two subscriber lines branched from said junction equipment, said junction equipment comprising a relay for each subscriber, said relays each being connected at one terminal to an appertaining branch of the common line and at its other terminal to earth, a signalling circuit for each subscriber extending over earth and an appertaining branch of the common line, said junction equipment comprising further for each subscriber one set of contacts, each set consisting of two contacts over which the appertaining subscriber's line can be connected to the common line, and a third contact included in the signalling circuit of the subscriber and a fourth contact included in the signalling circuit of the other subscriber, said relays each being adapted to control an appertaining set of contacts.

2,164,692
BRAKE LEVER EXTENSION
Gustave F. Bahr, Fairfield, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application July 26, 1937, Serial No. 155,674
11 Claims. (Cl. 74—479)



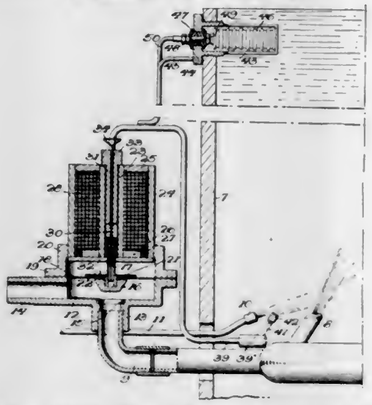
1. An extension for vehicle brake levers having a handle and a brake-release grip thereon comprising an extension lever; a hanger for pivotally mounting the extension lever on the brake lever forwardly of and in cooperative relation with the brake-release grip, said hanger including a brake lever engaging section having rearwardly-extending wing members; draft means mounted in the rearwardly-extending wing members for clamping the hanger on the brake lever; and resilient means surrounding the pivotal mounting and engaging the hanger and the extension lever to hold the latter in firm engagement with the brake-release grip.

2,164,693
PLOW
Joseph Burton Berryhill, Combes, Tex.
Application January 25, 1937, Serial No. 122,262
1 Claim. (Cl. 74—538)



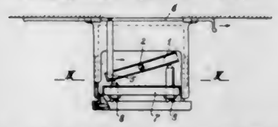
A lever for plows comprising a pair of spaced, parallel pivotally mounted bars having opposed longitudinal slots therein, a spacing block mounted between the bars adjacent the slots, said block having an opening therein, threaded shanks on said block projecting through the bars, securing nuts for said bars threaded on said shanks, a substantially T-shaped pawl between the bars slidably mounted in the opening in the block, the head portion of said pawl being operable in the slots, said pawl being engageable with a keeper for releasably securing the bars against swinging movement, a coil spring mounted on the pawl and having one end engaged with the block and its other end engaged with the head portion of said pawl for yieldingly urging same toward operative position, and means on one of the bars for retracting the pawl.

2,164,694
THERMOELECTRICALLY CONTROLLED DEVICE
Paul L. Betz, Baltimore, Md., and Sebastian Karrer, Washington, D. C., assignors to Consolidated Gas Electric Light and Power Company of Baltimore, Baltimore, Md., a corporation of Maryland
Application October 16, 1934, Serial No. 748,516
2 Claims. (Cl. 137—139)



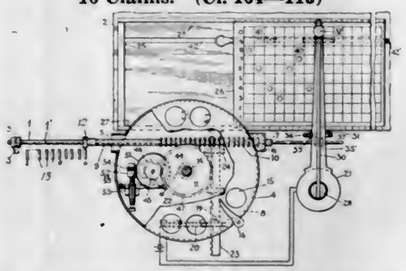
1. In a safety device for gas burners, a safety valve for controlling the flow of gas, an electromagnet for maintaining said valve normally in open position, said electromagnet having a bore and said valve having a tubular valve stem extending into said bore at one end thereof, means forming a shoulder within said tubular valve stem, a spring interposed between said electromagnet and shoulder, and a rod extending through said bore and into said valve stem past said shoulder, said rod having an enlarged head at its end within the valve stem adapted to engage said shoulder whereby the valve can be opened manually.

2,164,695
ADJUSTING DEVICE FOR PHOTOGRAPHIC AND CINEMATOGRAPHIC OBJECTIVES
Max Brinck, Berlin-Steglitz, and Willi Grönebaum, Berlin-Wilmersdorf, Germany, assignors to the firm Tobis Tonbild Syndikat Aktiengesellschaft, Berlin, Germany, a company of Germany
Application February 7, 1938, Serial No. 189,086
In Germany February 9, 1937
6 Claims. (Cl. 95—45)



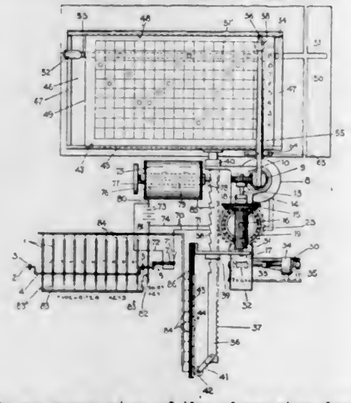
1. In a photographic or cinematographic camera, a mount attached to said camera, an intermediate member, said intermediate member being in movable engagement with said mount, an objective adapted to be connected to said intermediate member, means for securing the relative position between said objective and said intermediate member, adjustable controlling means mounted on said intermediate member, adjusting means secured to said objective for adjusting said controlling means according to the focal length of the objective, said adjusting means being in engagement with said controlling means when the objective is connected to said intermediate member, and focusing means arranged on said camera, said focusing means being in engagement with said controlling member.

2,164,696
COMBINATION TYPEWRITER-CARD PUNCHER
John P. Buckley, Washington, D. C.
Application December 3, 1935, Serial No. 52,733
16 Claims. (Cl. 164—113)



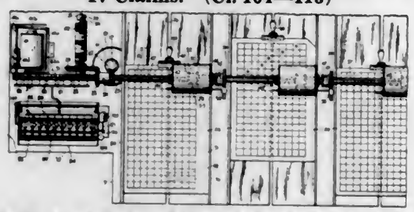
1. In an apparatus of the character described, a shiftable carriage adapted to hold a record card, a key board, a rock shaft having a crank portion under the key board, a rack bar extending from said carriage, a shaft slidably mounted for movement transversely of the key board, a rack carried by said shaft, pinions meshing with the racks of the carriage and shaft, means for simultaneously imparting rotation to said pinions to shift the shaft transversely of the key board and to shift the carriage to an adjusted position, means carried by said shaft for engaging a depressed key to limit shifting of the shaft and consequently limit shifting of the carriage beyond a position determined by the depressed key, means to actuate the means for rotating the pinions having controlling means actuated by rotation of the crank shaft, and means for perforating a card in said carriage actuated by the means for rotating the pinions.

2,164,697
COMBINED TYPEWRITER AND PUNCH RECORDER
John P. Buckley, Washington, D. C.
Application November 14, 1936, Serial No. 110,924
19 Claims. (Cl. 164—113)



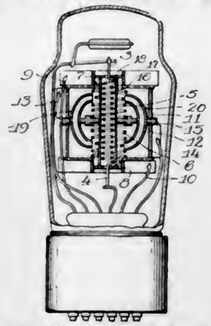
1. In an apparatus of the character described, a card holder, perforating means, means for shifting the card holder and a card into position adapting the perforating means to form a perforation in a predetermined location in a card, electrically energized means for controlling movements of the shifting means and the perforating means, means for imprinting symbols including keys constituting means for closing a switch of the circuit for the electrically energized means for controlling operation of the perforating means and shifting of the card holder, and a commutator in said circuit having insulated stationary contacts each connected in series with a companion key and engagable by the movable contact to complete the circuit.

2,164,698
MULTIPLE CARD PUNCHING MACHINE AND CHECKING SYSTEM
John P. Buckley, Washington, D. C.
Application April 13, 1938, Serial No. 201,820
17 Claims. (Cl. 164—113)



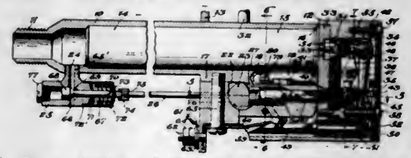
1. In a card punching machine, a plurality of cards to be punched, single punching means for each card, and means for selectively positioning the punching means transversely of its associated card and causing operation thereof individually or in selected groups.

2,164,699
ELECTRON DISCHARGE DEVICE
Richard U. Clark, Fort Wayne, Ind.
Original application July 6, 1937, Serial No. 152,014. Divided and this application November 28, 1938, Serial No. 242,702
2 Claims. (Cl. 250—177)



1. An electric discharge tube having an envelope and an electron emitting cathode, anodes and grids therein made of compressed sintered powders of conducting materials, including metals of high oxidizing temperatures and poisonous to electron emission together with carbon proportioned to afford minimum electron emission and a maximum heat radiation.

2,164,700
DEVICE FOR DISCHARGING EXPLOSIVE OR COMBUSTIBLE CHARGES
Roscoe Alexander Coffman, Pittsburgh, Pa.
Application January 7, 1935, Serial No. 751
16 Claims. (Cl. 123—183)

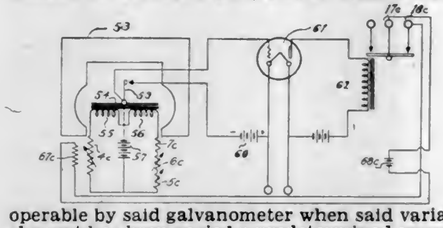


1. In a device of the class described, a barrel adapted to hold an explosive cartridge, a pivoted breech block for closing one end of said barrel, a firing pin in said breech block, an electrical contact fixed to said barrel structure exteriorly of said breech block, an electrical connector for said pin in said breech block and movable therewith to engage said contact in only the closed position of said pivoted breech block, a single means operable upon initial movement thereof to lock said breech block to said barrel in closed position, and upon further movement thereof move said firing pin into operative relation with a cartridge in said barrel.

2,164,701
WHEATSTONE BRIDGE RELAY ARRANGEMENT
Theodore A. Cohen, Chicago, Ill., assignor to Wheelco Vacuum Products Company, a corporation of Illinois
Application November 16, 1934, Serial No. 753,410
3 Claims. (Cl. 175—320)

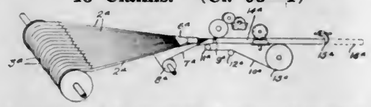
1. In an apparatus of the character described, a bridge circuit, a galvanometer having oppositely wound armature coils in opposite arms of the bridge circuit, a variable impedance element in a third arm and a balancing element opposed

thereto in a fourth arm, and a control circuit



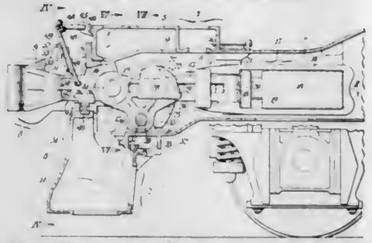
operable by said galvanometer when said variable element has been varied a predetermined amount.

2,164,702
METHOD AND APPARATUS FOR MAKING CIGARETTE MOUTHPIECES
Glenn Davidson, Aurora, Ill.
Application February 29, 1936, Serial No. 66,336
13 Claims. (Cl. 93—1)



1. A continuous process of manufacturing cigarette mouthpieces, which includes feeding continuous compressible material of indefinite length longitudinally while gathering the same laterally and simultaneously applying sufficient pressure in opposed arcs to compress said material into substantially cylindrical form, with draft passages between some of the gathers and enclosing the same in a wrapper.

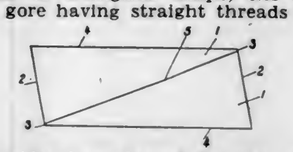
2,164,703
COUPLING MEANS FOR LOCOMOTIVES AND THE LIKE
Warren R. Elsey, Merion, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 8, 1937, Serial No. 162,870
8 Claims. (Cl. 213—4)



1. Coupling means for locomotives and the like, comprising a counter-weighted coupler sustained in the locomotive frame structure; and a member pivoted to the draft gear for horizontal swinging movement, and to which the coupler is in turn pivotally connected for capacity to be depressed against its counterweight into a receiving opening therefor in the pilot of the locomotive.

2,164,704
METHOD OF MANUFACTURE OF A PARACHUTE SURFACE
André Ferrari, Saint-Victor-sur-Rhins, France
Application October 13, 1937, Serial No. 168,839
In France October 19, 1936
8 Claims. (Cl. 244—145)

1. A parachute of the character described comprising a plurality of gores, each gore being formed of a fabric cut out in the shape of a trapezium of triangular shape, one large side of each gore having straight threads while the

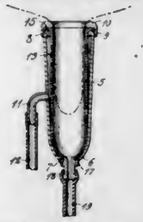


opposite sides have biased threads, said gores seamed together with the large side of each gore having straight threads being united with the large side of an adjacent gore having biased threads.

2,164,705
MANUFACTURE OF MELAMINE
Willi Fisch, Riehen, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application August 12, 1938, Serial No. 224,603. In Switzerland September 3, 1937
2 Claims. (Cl. 260—248)

1. A process for the manufacture of melamine from substances which form melamine, wherein the melamine is heated in presence of ammonia at least to its melting point in the course of its production and is removed from the reaction vessel whilst in the molten state.

2,164,706
TEAT-CUP LINING
Harry M. Flint and John Edgar Moe, Denver, Colo., assignors to The Gates Rubber Company, Denver, Colo., a corporation of Colorado
Application February 1, 1938, Serial No. 188,039
4 Claims. (Cl. 31—85)

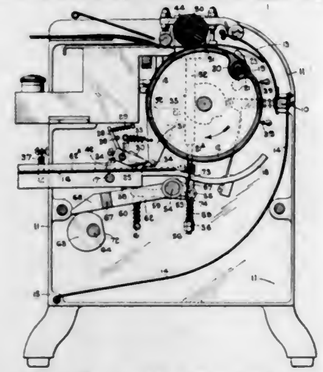


1. A flexible lining for teat cups, comprising, a seamless, elastic rubber tube having embedded in its wall reenforcing cord wound helically thereabout, in one direction only and with flat pitch, whereby transverse expansion is prevented and longitudinal extension permitted.

2,164,707
DUPLICATING MACHINE
Frank Ronald Ford, Small Heath, Birmingham, England
Application September 21, 1937, Serial No. 164,864
In Great Britain September 24, 1936
7 Claims. (Cl. 101—132)

1. A duplicating machine comprising a stationary frame, a rotatable cylinder, attachment means on said cylinder for one edge of a master sheet, a roller co-operating with said cylinder and adapted to bring a moistened copy sheet into pressure contact with the master sheet on said cylinder, a transverse bar disposed behind and spaced from said cylinder and forming part of said frame, a guide plate hinged to said bar and

extending upwardly therefrom, and a second guide plate also attached to said bar and extending first downwardly therefrom and then forwardly, said guide plates collectively serving to deliver sid copy sheet from the machine face upwards.

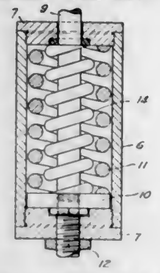


2,164,708
BAIT HOLDER
John B. Hadaway, Swampscott, Mass.
Application July 20, 1936, Serial No. 91,525
17 Claims. (Cl. 43—40)



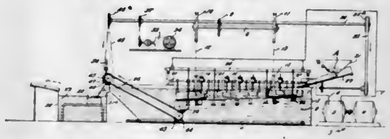
1. A bait holder having a curved tubular impaling needle, a hook having a curved shank, and means carried by the needle and hook for detachably securing the shank within the needle.

2,164,709
SHOCK ABSORBER FOR WALKING BEAMS
Charles P. Hall and Chester R. Tucker, Pearson, Okla.
Application July 6, 1936, Serial No. 89,224
1 Claim. (Cl. 267—70)



A shock absorber comprising a pair of cylinders open at the ends thereof, apertured removable caps closing said ends of the cylinders, means for admitting fluid in said cylinders, rods slidable through certain of the caps of the cylinders and secured to a yoke of a walking beam, packing preventing leaks between the latter-named caps and said rods and arranged in the cylinders, rods extending through and adjustably secured to the other caps of the cylinders and secured to a coupler of a pump operating medium, disc-like members secured on the first-named rods within the cylinders and having ports to permit a retarded flow of liquid past said members during the latter's movement in said cylinders, and cushion coil springs surrounding the first-named rods within the cylinders and bearing against the disc-like members and the caps through which the first-named rods slide and the springs of each cylinder being arranged one within the other.

2,164,710
MEANS FOR ELECTROPLATING
Frank A. Hatch, South Hanson, Mass., assignor to D. A. Gurney Company, Whitman, Mass., a corporation of Massachusetts
Application September 27, 1935, Serial No. 42,487
10 Claims. (Cl. 204—11)



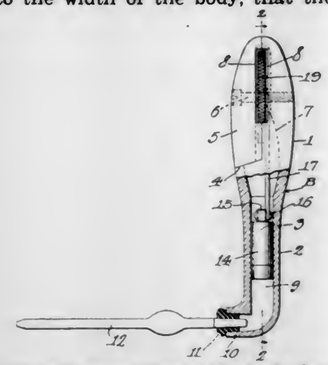
1. Apparatus for use in electroplating articles, said apparatus comprising a receptacle for electrolyte, an elongate trough disposed within the receptacle, the interior of said trough being substantially unobstructed from end to end, the trough being freely open at its top to expose to view its contents, power driven means for rocking the trough about a longitudinally extending axis, and means for delivering articles into one end of the trough and for receiving articles from the other end of the trough and delivering them from out the receptacle characterized in that the trough is inclined downwardly from the receiving end toward its delivery end whereby the articles are caused to travel longitudinally of the trough under the action of gravity, the trough consisting of a series of parallel bars arranged in such close juxtaposition as to prevent the articles being plated from entering the crevices between them, the inner surfaces of said bars being independently curved on short transverse arcs so as to provide a ribbed surface whereby as the trough is rocked, the articles are caused to move back and forth transversely of the trough.

3. Apparatus for use in electroplating articles, said apparatus comprising a receptacle for electrolyte, means for delivering the articles into the electrolyte in the receptacle, an elongate, open-topped trough disposed within the receptacle and into one end of which the articles are delivered and along which the articles move in a substantially uninterrupted continuous stream toward the other end of the trough, a pair of pulleys secured to the trough adjacent to its opposite ends respectively, belts embracing the pulleys and thereby supporting the trough, and means for moving the belts first in one direction and then in the other.

2,164,711
INSTRUMENT FOR DRAWING BLOOD
Godfrey J. Kadavy, Omaha, Nebr.
Application January 30, 1939, Serial No. 253,689
1 Claim. (Cl. 128—214)

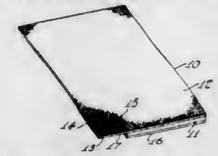
A device adapted to be used in such operations as drawing and delivering blood for tests, comprising a body shaped to be held in one hand, the body comprising suction and ejection means, and mechanism for actuating the suction and ejection means, said mechanism embodying a wheel mounted to rotate on the body and constituting the element to which operating force is applied initially, the wheel being of such diameter that it

can be housed partially within the body, the diameter of the wheel being such, considered relatively to the width of the body, that the wheel



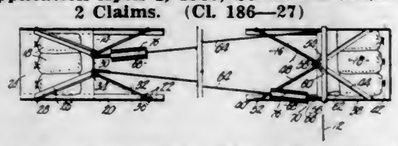
will be exposed outwardly of the body for actuation by the hand in which the body is held, and whilst said hand retains its hold upon the body.

2,164,712
SHINGLE
Lester Kirschbraun, New York, N. Y., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Application September 28, 1937, Serial No. 166,076
2 Claims. (Cl. 108—8)



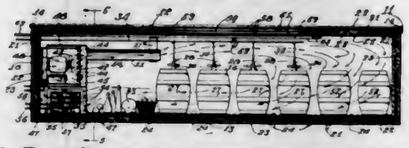
1. A roof covering comprising partially overlapping courses of shingles each of said shingles comprising a body portion of hardened plastic material and a sheet of asphalt saturated and coated mineral surfaced felt affixed to the upper face of the body portion and extending beyond one lateral edge thereof to form a lapping portion, the butt edge and the other lateral edge of the body portion of each shingle being coterminous with the corresponding edges of the sheet affixed thereto the lapping portion of each shingle of a course overlapping an adjacent shingle of the course with the body portions of adjacent shingles lying in edgewise contiguous relationship and a thin layer of the plastic material lying between each of said overlapping portions and the underlying shingle.

2,164,713
CONVEYER
Herman P. Knight and Thomas B. Franklin, Kansas City, Mo.
Application April 1, 1938, Serial No. 199,384
2 Claims. (Cl. 186—27)



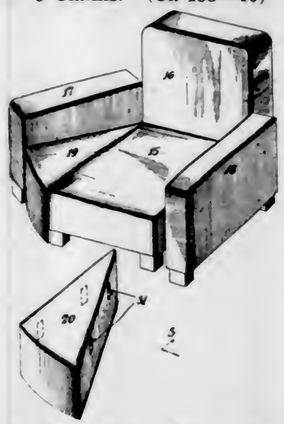
1. In a conveyer of the character described, a carrier for darts having elongated points thereon, comprising a body of foraminous material; and a partition of foraminous material in the body, said partition being in spaced parallel relation with the bottom of the body, the distance between said partition and the bottom of the body being less than the length of the said points of the darts.

2,164,714
BEER DISPENSING APPARATUS
James Z. Kornblatt, Philadelphia, Pa.
Application August 12, 1937, Serial No. 158,628
2 Claims. (Cl. 225—1)



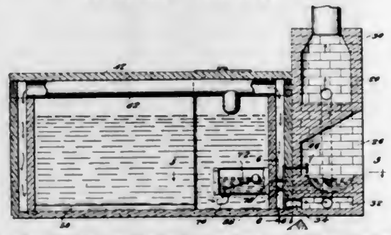
1. Beer-dispensing apparatus comprising a thermally insulated serving-bar cabinet, a beer-dispensing faucet mounted on said cabinet exteriorly thereof and having its inlet-end extending thereinto, said serving-bar cabinet having a chamber for receiving a beer-keg adapted to be operatively connected to said faucet inlet-end by a beer-conduit, means disposed within said cabinet for continuously refrigerating and circulating the air within said serving-bar cabinet including an air-refrigerating coil unit, an air-impeller disposed in operative proximity to said coil unit at one side thereof and arranged to circulate air therethrough, a hood associated with the opposite side of said coil unit, and an air-duct extending from said hood and discharging in the vicinity of said beer-keg, whereby the beer will be uniformly refrigerated at its source and along its path of travel by the continuous circulation of refrigerated air around and about said keg and conduit.

2,164,715
CONVERTIBLE FURNITURE
Vernon M. Krainbill, Brooklyn, N. Y.
Application February 5, 1937, Serial No. 124,164
9 Claims. (Cl. 155—46)



2. A convertible article of furniture comprising in combination a chair member consisting of a seat portion and a back portion, side or arm members at least one of which is swingably attached to the rear portion of the chair member, a foot and leg rest member consisting of at least one section of substantially the same height from the floor as the seat portion of the chair member, said foot and leg rest member being adapted to rest on the floor for use in front of the chair member as an ottoman and to be inserted as an expansion member in the space produced by swinging at least one of the side or arm members away from the seat portion of the chair, and means in the touching sides of the seat portion, of the at least one swingably attached side member, and of the at least one section of the foot and leg rest member for removably securing the swingable side member and the foot and leg rest member to the seat portion of the chair when the foot and leg rest member is used as such, or to removably secure the latter, when used as an expansion section in inserted position, to the side member and the side of the seat portion.

2,164,716
STOCK WATERING DEVICE
Walter W. Kreft, Yetter, Iowa
Application September 3, 1937, Serial No. 162,340
3 Claims. (Cl. 119—73)



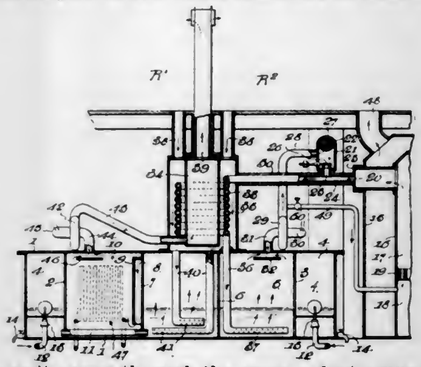
1. A stock watering device of the class described comprising, a tank including a bottom and a pair of upstanding spaced concentrically disposed walls, a top secured to said walls having a pair of spaced partition members depending therefrom terminating short of the bottom and dividing said tank into three compartments, said top being provided with means for obtaining access to the outer compartments, a smoke stack having a watering fountain in the lower portion thereof and a flue and an air space disposed below said fountain, said air space being connected to the space between the walls, conduits adjacent said fountain connecting the air space below the fountain with the flue, a heating unit enclosure in said central compartment, a heating unit therein, conduit means connecting the heating unit enclosure with the space between the walls, and means conveying the water from the central compartment to the fountain.

2,164,717
BRUSHLESS SHAVING CREAM
Wolf Kritchevsky, Chicago, Ill., assignor to Rit Products Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 26, 1938, Serial No. 226,903
8 Claims. (Cl. 167—85)

1. A non-vanishing brushless shaving cream comprising a plastic emulsion of oleaginous and aqueous materials and containing a minor proportion of a phosphatide.

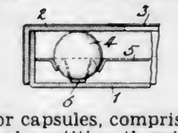
2,164,718
HEATING AND AIR CONDITIONING SYSTEM
Joseph T. Norman, Shickshinny, Pa., assignor of fifty per cent to Edith J. Norman and forty per cent to Mabel M. Baer, both of Huntington Mills, Pa., and five per cent to Beach Shoemaker and five per cent to Arthur W. Widger, both of Shickshinny, Pa.
Application March 30, 1938, Serial No. 199,052
9 Claims. (Cl. 126—113)

1. In a heating system employing a stack and a hot air furnace, the combination with the hot air furnace having a heat generating chamber surrounded by an air heating chamber with hot air outlet ducts and having a smoke outlet, an auxiliary apparatus comprising a casing, partitions in said casing dividing it into a plurality of chambers, said chambers containing water and being located in heat exchange relation to one another, a pair of drums, one enclosing the other to provide two drum chambers, means to conduct cool air into one of said drum chambers, means to deliver heated air from the other of said drum chambers, a heating coil cooperatively located with respect to said drum chambers to heat the



air as it passes through the same, a duct connecting one end of said coil to said smoke outlet to receive the products of combustion of the furnace, a branch from said duct to the stack, an automatic valve controlling passage of gases through said branch, a pipe connected to the other end of said coil and having its discharge end immersed in the water in one of said casing chambers, a pump for drawing the products of combustion from the furnace through said duct, said coil and said pipe, and forcing the same into the chimney, and means to draw the air from one drum chamber through the water in the other chamber of said casing to wash the air and deliver it into the other drum chamber.

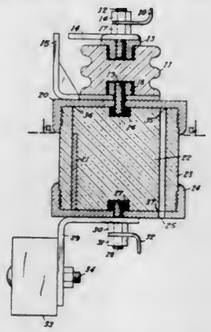
2,164,719
CONTAINER FOR PILLS, CAPSULES, AND THE LIKE
Frederick J. Peterson, College Point, and Earl A. Russell, Tonawanda, N. Y.; said Peterson assignor to Shoup-Owens, Inc., Hoboken, N. J., a corporation of New Jersey, and said Russell assignor to Spaulding Fibre Co. Inc., Tonawanda, N. Y., a corporation of New Hampshire
Application January 15, 1938, Serial No. 185,132
1 Claim. (Cl. 206—42)



A package for capsules, comprising a box body, a flat horizontal partition therein spaced above the bottom of said body, a plurality of depressions in said partition shaped to receive capsules therein deeply enough to hold them from lateral displacement, said depressed portions being slitted to form integral yielding supports underlying said capsules, an individual capsule being easily removable by depressing that portion of said partition adjacent thereto against the tension of the underlying support sufficient to eject the capsule

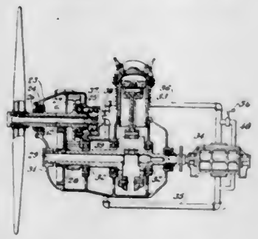
from its socket enough to permit the same to be grasped and removed by the thumb and forefinger.

2,164,720
LIGHTNING ARRESTER
Ralph R. Pittman, Pine Bluff, Ark.
Application February 8, 1939, Serial No. 255,192
4 Claims. (Cl. 175—30)



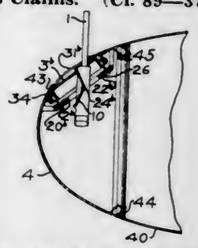
1. A voltage limiting and arc extinguishing device comprising a hollow tubular insulator, a closure of conducting material at the upper end thereof and a vent at the lower end thereof, a substantially cylindrical element of insulating material having a diameter less than that of the hollow extending therein, means holding said element of insulating material in lateral abutting engagement with the inner surface of said tube, and structural means for causing sparkover to occur along the line of abutment of said tube with said element of insulating material, said structural means including a conducting member extending upwardly along a portion of the length of said line of abutment and in spaced relationship with said conducting closure.

2,164,721
SUSTAINING AND PROPULSIVE MEANS FOR AIRCRAFT
Albert O. Price, Leesville, Ohio
Application December 8, 1934, Serial No. 756,608
5 Claims. (Cl. 244—40)



1. An apparatus of the character described with a body and a motor supported thereon, having in combination bladed propelling means for aircraft, at least one of said blades having at least two surfaces, one of said surfaces provided with openings to admit air into the interior of said propelling means, and positive displacement means to withdraw boundary air through said openings and to discharge such air from said aircraft.

2,164,722
AIRCRAFT GUN MOUNT AND FLUSH PROTECTIVE SHIELD THEREFOR
John C. Sanders, Seattle, Wash., assignor to Boeing Aircraft Company, Seattle, Wash., a corporation of Washington
Original application October 17, 1934, Serial No. 749,040. Divided and this application December 21, 1936, Serial No. 116,918
18 Claims. (Cl. 89—37.5)

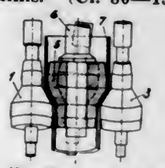


1. In an aircraft structure terminating in a circular opening extending transversely of the direction of flight, a terminal shell of substantially hemispherical shape disposed with its base closing such opening in streamlined continuation of the aircraft structure, and having an eccentric aperture therein between its dome and its base, means guiding said shell for rotation with respect to the aircraft structure about an axis normal to said opening through the center thereof, a gun mount supported directly upon said shell and adapted to support a gun projecting through the shell aperture for elevational and traversing movement with respect to the shell, and a shield of a size and so disposed as to close said shell aperture, and of a contour substantially identical with the local shell contour, and apertured for projection therethrough of a gun supported by said gun mount.

2,164,723
EMULSIONS
Walther Schrauth, Berlin-Dahlem, and Kurt Stickdorn, Dessau-Rosslau, Anhalt, Germany, assignors to Deutsche Hydrierwerke Aktiengesellschaft, Berlin-Charlottenburg, Germany, a corporation of Germany
No Drawing. Application April 10, 1936, Serial No. 73,803. In Germany April 13, 1935
5 Claims. (Cl. 252—6)

1. A base for therapeutic and cosmetic compositions comprising a fatty alcohol, water, and a resin alcohol in a quantity which binds the water present and produces a homogeneous compatible mass.

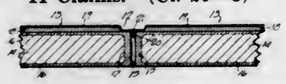
2,164,724
ROLLING MILL FOR ENLARGING HOLLOW BODIES
Jose Severin, Mulheim-on-the-Ruhr, Germany
Application June 15, 1937, Serial No. 148,399
In Germany July 25, 1936
5 Claims. (Cl. 80—13)



1. A rolling mill for enlarging cylindrical shaped hollow bodies comprising in combination,

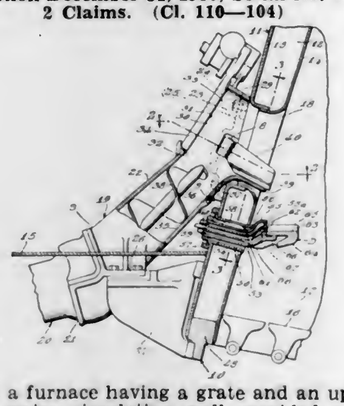
a mandrel adapted to be arranged inside the hollow body having conical shaped means for enlarging the body and cylindrical portions at each end thereof, at least two sets of rolls adapted to alternately engage the outer surface of the hollow body, each roll having the axis thereof arranged at an angle with respect to the axis of the mandrel, the rolls of one set having enlarged diameter portions for initially engaging the unenlarged portion of the hollow body so as to push and roll the hollow body over the mandrel, the rolls of the other set having enlarged diameter portions adapted to engage the enlarged portion of the hollow body for pulling and rolling the hollow body over the mandrel, and the cylindrical portions of the mandrel supporting portions of the hollow body engaged by the rolls.

2,164,725
BUILDING COVERING MEMBER
Gilbert Snyder, South Bend, Ind., assignor to Mastic Asphalt Corporation, South Bend, Ind., a corporation of Indiana
Application November 15, 1937, Serial No. 174,597
11 Claims. (Cl. 20—5)



1. A building covering member comprising a rigid composition board having a plurality of small nailing passages extending therethrough at the portion thereof which is exposed to the weather when applied, the portions of said board adjacent all exposed surfaces thereof including the walls of said passages being saturated to a shallow depth with waterproofing material, a continuous layer of waterproof material covering the outer face of said board, and surfacing material adhering to said layer, said layer sealing the outer ends of said passages.

2,164,726
LOCOMOTIVE STOKER
Charles J. Surdy, Tuckahoe, N. Y., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application December 31, 1936, Serial No. 118,517
2 Claims. (Cl. 110—104)

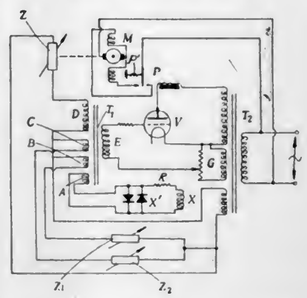


1. In a furnace having a grate and an upright hollow water circulating wall provided with a firing opening disposed above said grate, said firing opening constituting a manhole for entrance into said furnace, a stoker for feeding fuel to said furnace comprising a conduit communicating with said firing opening, said conduit having a fuel supporting plate extending into said firing opening and closely adjacent the lower marginal edge thereof, means for urging fuel through said conduit and across said fuel supporting plate, said hollow wall being provided with a distributor opening spaced from said firing opening, and a distributor including a jet member and a distributing table, said jet member extending into the distributor opening of said hollow wall and being secured to such wall for supporting said distributor table in position beneath said firing opening to receive fuel discharged therefrom, said jet member being arranged to emit blasts of pressure fluid for projecting the fuel from said distributor table.

2,164,727
PROCESS FOR THE PRODUCTION OF LOW CARBON STEEL
Sigurd Westberg, Oslo, Norway
No Drawing. Application May 10, 1938, Serial No. 207,155. In Norway May 18, 1937
1 Claim. (Cl. 75—28)

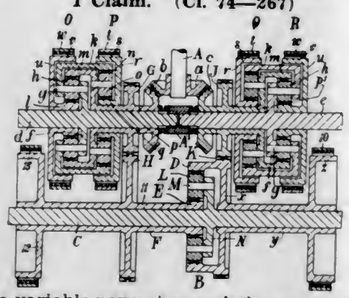
A two stage process for the production of low carbon steel, comprising as the first stage the production by highly oxidizing fining and subsequent granulation steel containing little or no manganese and silicon and a comparatively large amount of dissolved oxygen in the form of FeO and as the second stage the heat treatment of said granules at a temperature below melting point in order to cause the dissolved oxygen to react with carbon and diffuse in the form of CO.

2,164,728
ELECTRIC SIGNALING OR CONTROLLING SYSTEM EMPLOYING FOLLOW-UP DEVICES
Raymond John Wey, London, England, assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois
Application February 6, 1936, Serial No. 62,571
In Great Britain February 16, 1935
6 Claims. (Cl. 172—239)



4. A remote control device comprising means for producing a voltage varying with a condition of a primary element, means for producing a second voltage varying with a condition of a secondary element, a balancing transformer to which said voltages are applied and compounded, a thermionic valve having a control element, means for applying the compounded voltage to said control element, said balancing transformer including a winding for the passage of a biasing current, means to control the amplitude and phase of the biasing current, and means for varying the condition of the secondary element in accordance with the current flow through said valve.

2,164,729
EPICYCLIC POWER TRANSMISSION MECHANISM
Walter Gordon Wilson, Westminster, London, England
Application March 21, 1938, Serial No. 197,293
In Great Britain March 5, 1937
1 Claim. (Cl. 74—267)

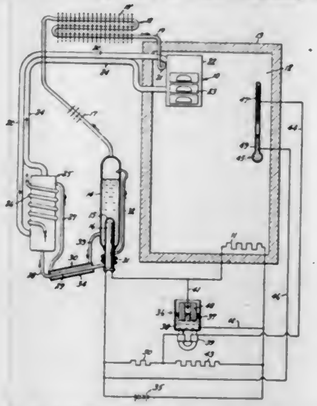


In a variable power transmission unit, the combination of a driving shaft and a driven shaft, a set of planets operatively connected with said driven shaft and forming part of a main epicyclic group of gears including a sun pinion and annulus, means for driving the sun pinion from said driving shaft, means for driving said annulus from said driving shaft independently of said last mentioned means, said driving means including variable selective driving mechanism comprising a series of auxiliary epicyclic gear groups, brake bands for controlling the operation of the auxiliary epicyclic gear groups, and means for directly braking the sun pinion and annulus of the main epicyclic group, whereby the drive imparted to said group from the remaining auxiliary epicyclic groups constituting the variable selective driving mechanism can be still further modified with corresponding additional variation in the orbital rotation of the planets of said main group and the driven shaft to which they are connected.

2,164,730
REFRIGERATION
Sigurd Mattias Bäckström, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware
Application June 16, 1936, Serial No. 85,485
In Germany June 20, 1935
15 Claims. (Cl. 257—3)

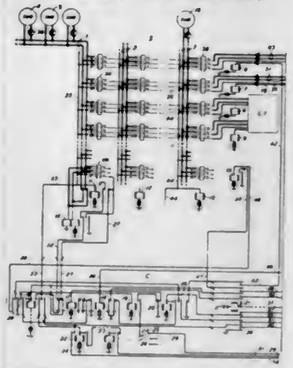
1. A method of maintaining an enclosed space substantially at a desired temperature with the aid of absorption refrigeration apparatus including a generator and a cooling element, which consists in heating absorption liquid in said generator at or above a predetermined rate to expel a fluid out of solution therefrom and produce a refrigerating effect in said cooling element to effect cooling of the enclosed space when cooling is necessary to maintain the desired temperature, heating the enclosed space when heating is necessary to maintain the desired temperature and, while the enclosed space is being heated, heating absorption liquid in said generator below the predetermined rate so that, when it is again desired to produce a refrigerating effect in said cooling element to effect cooling of the enclosed space, the length of time required to heat said absorption liquid at or above the predetermined rate to expel said fluid out of solution therefrom will be reduced.

2. Apparatus for maintaining an enclosed space substantially at a desired temperature including a refrigeration system operated by heat, means including a plurality of resistors serving as heating elements for operating said system and heating the enclosed space, respectively, and means responsive to the temperature of the enclosed space for rendering one of said heating elements



capable of operating said system when cooling is necessary to maintain the desired temperature, and for rendering the other of said heating elements operative when heating is necessary to maintain the desired temperature.

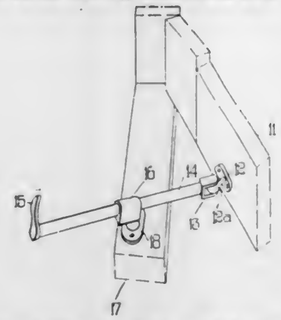
2,164,731
TELEPHONE SYSTEM
Henry M. Bascom, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 7, 1937, Serial No. 135,433
8 Claims. (Cl. 179—17)



1. The combination in a telephone system of a switch having sets of contacts, a subscriber's line appearing in the contacts of said switch, a line relay for said line, circuit means for connecting said line to said relay when the switch is in its normal condition, and circuit means effective when said switch is in its operated condition for connecting said line to said relay through an operated set of said switch contacts.

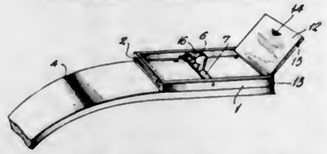
2,164,732
STAY FOR WINDOWS OR SIMILAR CLOSURES
Abraham de Vries, Amsterdam, Netherlands
Application January 22, 1938, Serial No. 186,426
In Great Britain January 23, 1937
4 Claims. (Cl. 292—275)

1. An extensible casement stay for use in connection with a fixed frame and a casement movable relative to the frame, comprising, in combination, a bar pivotally attached to the casement and angularly displaceable about its own axis, and a sleeve embracing said bar and pivotally mounted on said frame, said bar and said sleeve having interengaging peripheral faces each provided with longitudinally extending radial steps, and said faces having a common axis irrespective



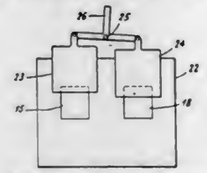
of their relative rotation and being, in transverse section, eccentric to the said common axis and extending along like arcs of slightly increasing radii up to said steps for effecting surface contact between the faces of the bar and the sleeve on relative angular displacement between the bar and the sleeve about their common axis from a position in which the bar and the sleeve are capable of relative longitudinal displacement.

2,164,733
BUCKLE
William Woodward Dillon, New York, N. Y.
Application February 12, 1938, Serial No. 190,163
1 Claim. (Cl. 24—180)



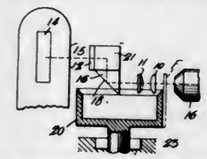
In a buckle, a housing, a tongue pivotally mounted in the housing, resilient means for resisting the movement of the tongue in one direction, and means for positively locking the tongue against movement in such direction, said latter means comprising a pivoted detent plate adapted to be swung into and out of its locking position.

2,164,734
SOUND REPRODUCER
Glenn L. Dimmick, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 23, 1935, Serial No. 32,733
4 Claims. (Cl. 179—100.3)



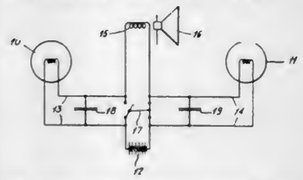
1. In an apparatus for reproducing a push-pull sound record having its positive and negative half cycles recorded on complementary tracks spaced from one another, the combination of means for modulating a plurality of light beams each in accordance with a different one of said tracks, a plurality of complementary photo-electric elements connected in push-pull and each responsive to a different one of said modulated beams, and means for adjusting the relation between the illumination of said elements for balancing the output thereof.

2,164,735
PUSH-PULL OPTICAL SYSTEM
Glenn L. Dimmick, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 25, 1936, Serial No. 92,479
7 Claims. (Cl. 179—100.3)



1. In combination with sound reproducing apparatus having means for directing a fine line of light upon a film and a light responsive device adapted to be actuated by said light, an optical system for directing light from the film to the photocell, including an exit lens for directing light to the photocell and a toroidal entrance lens for focusing the light in one plane upon the exit lens and restricting the dimensions of the beam in a plane perpendicular thereto.

2,164,736
SOUND PICTURE FADER
William L. Douden, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 9, 1935, Serial No. 5,876
12 Claims. (Cl. 179—100.3)

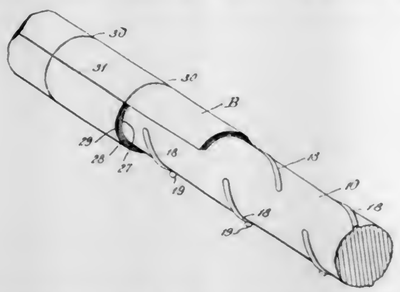


1. Sound reproducing apparatus including a plurality of exciter lamps, power supply leads, means for controlling the rate at which said lamps are energized and de-energized, and circuit control means for operatively associating said lamps with said leads one after the other.

2,164,737
METHOD OF MAKING BEARINGS
Homer P. Ford, Forest Hills, N. Y., assignor to The Gillord Corporation, New York, N. Y., a corporation of Delaware
Application July 24, 1936, Serial No. 92,325
10 Claims. (Cl. 29—149.5)

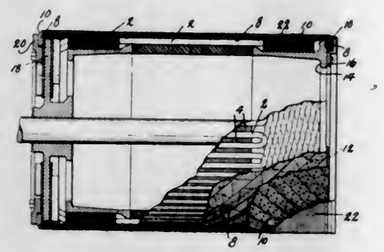
1. The method of making concave bearings or the like, which comprises building up on a suitable cylindrical form radially outwardly from the inner concave bearing surface a non-adhering

homogeneous structure of initially finely-divided heat-softened material under pressure, and



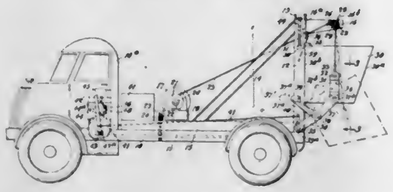
stripping said entire built-up structure from said form.

2,164,738
INDUCTOR WINDING
Ethelbert M. Fraser, deceased, late of New York, N. Y., by Dorothy Fraser, administratrix, New York, N. Y., assignor to Murray & Flood, Inc., New York, N. Y., a corporation of New York
Application December 27, 1937, Serial No. 181,894
8 Claims. (Cl. 171—206)



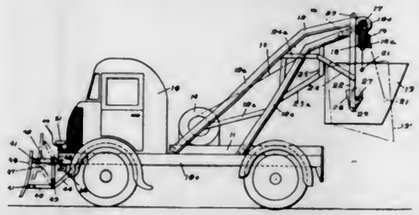
1. An inductor winding comprising a hollow cylindrical structure made up of conductors, metal ribbons wrapped about the conductors, and a wrapping of wire about the ribbons, the structure being impregnated and coated with a binding material.

2,164,739
TRANSPORTING AND DUMPING VEHICLE
Lawrence Gerosa and George P. Wagner, Bronx, N. Y., assignors to Speed-Dump, Inc., New York, N. Y., a corporation of New York
Application May 26, 1938, Serial No. 210,146
9 Claims. (Cl. 214—75)



1. In a transporting and dumping vehicle, a vertical frame having top rearward projecting arms, a hoisting winch mounted on said vehicle and having hoisting cables extending rearwards, cable guide means for said cables and mounted on said projecting arms, a skip for holding earth and other heavy materials, means for detachably connecting said cables to the sides of said skip in the vicinity of its center of gravity for hoisting the skip upwards along said vertical frame, a trunnion projecting from each side of said skip at points below said center of gravity, and support means movably mounted on said chassis and engageable with said trunnion for assisting in supporting the skip and for acting as a fulcrum support to spill or dump the skip when said cables are lowered and movable to an inoperative position so that the skip may be lowered without spilling same said support means, comprising bell-crank levers pivotally supported intermediate of their ends on said vertical frame and one of their arms being detachably connected with said frame and the other of their arms being bifurcated to engage and support said trunnion.

2,164,740
TRANSPORTING AND DUMPING VEHICLE
Lawrence Gerosa and George P. Wagner, Bronx, N. Y., assignors to Speed-Dump, Inc., New York, N. Y., a corporation of New York
Application July 27, 1938, Serial No. 221,512
4 Claims. (Cl. 214—116)

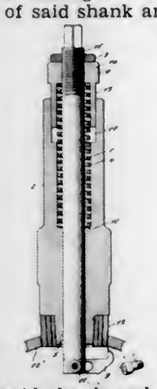


1. In a transporting and dumping vehicle, a motor vehicle having a chassis, a frame mounted thereon and having a top rearward projecting arm, a skip for holding earth and other heavy materials and having pegs on the sides slightly forwards and downwards of the center of gravity, cable means guided over said arm and attached to the sides of said skip near the top thereof by which the skip may be hoisted and lowered and be free to swing forwards and rearwards, stationary hooks mounted on said frame and extending along the sides of said skip in the hoisted position thereof for receiving said pegs and having upwardly and rearwardly inclined flanges to guide said pegs over the hooks while the skip is being hoisted, and cams mounted on said hooks and engageable by said pegs due to forward swinging of said skip when the skip is hoisted upwards to be moved forwards away from said hooks so that upon slight lowering of said skip the pegs engage said hooks and when the skip is then slightly raised to move rearwards across said hooks to cam said pegs away from the hooks by swinging the skip rearwards when the skip is then lowered.

2,164,741
DEVICE FOR THE REMOVAL OF BURS FROM METAL SURFACES
Frederick L. Green, Irvington, N. Y.
Application June 11, 1937, Serial No. 147,613
13 Claims. (Cl. 77—69)

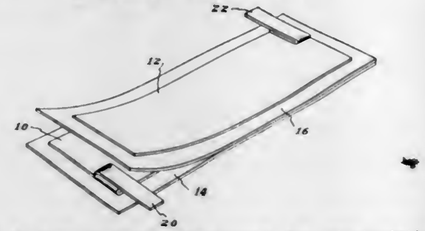
1. A device for the removal of burs from metal surfaces comprising a housing having an end adapted to be inserted in a hole from which a bur is to be removed, a shank rotatably mounted

in said housing, a cutting tool diametrically carried by one end of said shank and a spring posi-



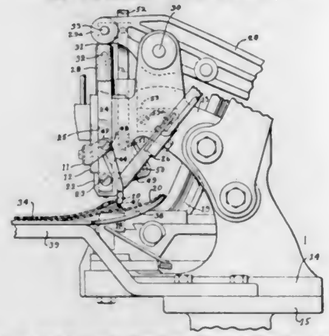
tioned to force said shank and the cutting tool carried thereby toward said housing.

2,164,742
ELECTROLYTIC CAPACITOR
Arthur T. Harding, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 30, 1935, Serial No. 13,813
3 Claims. (Cl. 175—315)



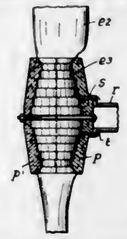
3. A film forming electrolyte for electrolytic condensers comprising casein, a polyhydric alcohol, an alkaline salt of a weak acid, and water.

2,164,743
KICK-OUT DEVICE FOR FASTENER ATTACHING MACHINES
Otto J. Huelster, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application December 4, 1937, Serial No. 178,115
10 Claims. (Cl. 218—6)



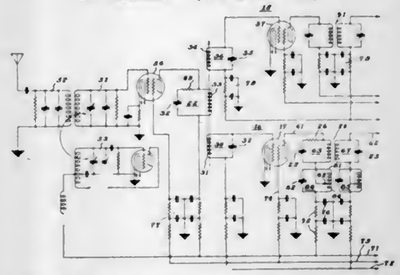
1. In a kick-out device for attachment to a fastener-attaching machine having punch and anvil means coacting at a setting station for securing elements of a fastener member together upon a garment, said kick-out device serving to remove an overlying portion of the garment construction out of the operating path of the descending punch and comprising a bracket member attached to a stationary part of the machine, a kick-out lever pivoted to said bracket and adapted to swing through the space between the punch and anvil when in the normal rest position, a means on said lever for engagement underneath one edge of said garment overlying portion, and means connecting said kick-out lever with the operating means of said machine, and adapted to swing said lever forward of its normal rest position and remove the forward edge of the overlying portion of said garment out of the setting station of the machine prior to the fastener setting operation.

2,164,744
BLADE MOUNTING FOR AIRCRAFT
Fritz Huth, Berlin-Johannisthal, Germany
Application August 28, 1936, Serial No. 98,361
In Germany January 29, 1934
1 Claim. (Cl. 170—173)



Driving mechanism for aircraft including the combination of a rotatable power shaft, a propeller blade, a power transmitting body of vibration-damping material interposed between shaft and blade, said body being formed in two separable parts adapted to close upon the blade, said body being borne by the shaft and itself carrying the blade, and clamping means securing the blade between the separable parts of the body and also securing the body to the shaft.

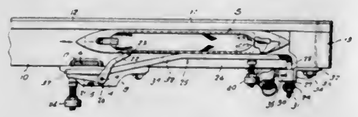
2,164,745
INTERMEDIATE FREQUENCY AMPLIFIER
Carroll D. Kentner, Collingswood, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application October 31, 1934, Serial No. 750,770
12 Claims. (Cl. 178—5.8)



11. In a television receiver, an intermediate frequency picture signal amplifier having a plu-

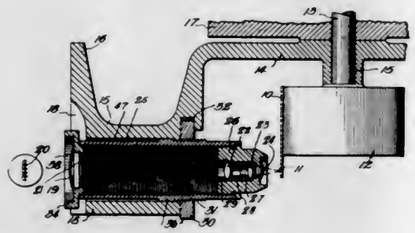
rality of stages, a plurality of auxiliary rejector circuits more sharply tuned than the amplifier circuits and responsive to an adjacent channel frequency of relatively narrow band with respect to the frequency response band of the amplifier, said rejector circuits being loosely coupled to the signal conveying circuits of the amplifier in a plurality of stages, said rejector circuit frequency band further being substantially in overlapping relation to the frequency response band of the amplifier, and the coupling thereof being such that the narrow band frequency signals are attenuated to a relatively small degree in each stage, while the frequency response characteristic of the amplifier is relatively broad in addition to being wide with respect to said narrow band channel, whereby an overall frequency response for the amplifier having high fidelity and steep sides is provided.

2,164,746
DOUBLE DUTY BINDER
William H. Knox and William Graham, Philadelphia, Pa.
Application August 22, 1938, Serial No. 226,094
6 Claims. (Cl. 139—186)



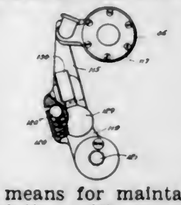
1. In a loom, and in combination, a shuttle box, a binder associated with the said shuttle box, means for mounting the binder on the shuttle box to provide horizontal floating motion on the part of the binder, said means including guiding faces for preventing vertical or rocking motion of the binder and an auxiliary binder carried by the shuttle box and operatively associated with said first mentioned binder.

2,164,747
MOUNT FOR SOUND REPRODUCING OPTICAL SYSTEMS
Daniel O. Landis, Upper Darby, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application February 27, 1937, Serial No. 128,113
3 Claims. (Cl. 88—24)



1. In apparatus of the class described, a lens tube, an objective mounted in one end of said lens tube and a slit block having a circular extension mounted in the other end of said lens tube, said slit block being rectangular and slightly larger than said tube and having a slit therein parallel with two sides of the rectangle whereby placing said slit block in contact with a flat surface will determine the orientation of said slit.

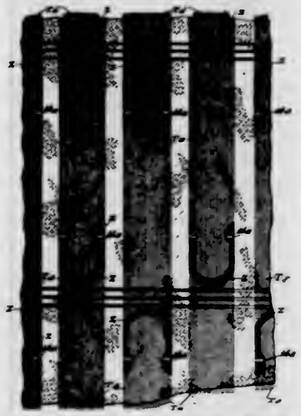
2,164,748
SOUND HEAD
Fred J. Loomis, Rochester, N. Y., and Ellwood W. Reynolds, Westfield, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Original applications October 14, 1932, Serial No. 637,852, and June 26, 1935, Serial No. 28,444. Divided and this application May 13, 1937, Serial No. 142,394
4 Claims. (Cl. 271—2.3)



1. Pressure means for maintaining a film in cooperative relation with an opposing surface comprising a shaft mounted upon anti-friction bearings, a side guide member mounted rigidly upon the said shaft, a sleeve slidable upon the said shaft and carrying a pressure roller and a second side guide, and elastic means urging the said sleeve toward the said fixed side guide.

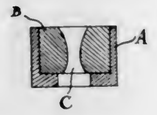
2. A bracket for supporting a pressure roller comprising a pivoted member, a second member pivoted to said pivoted member for limited movement and biased in one direction, and an arm for supporting the pressure roller extending substantially perpendicularly from said second member in the direction toward which it is biased.

2,164,749
STOCKING AND METHOD OF MAKING THE SAME
Henry C. Martin, Montclair, N. J., and Leon R. Claflin, Scarsdale, N. Y., assignors to Van Raalte Company, New York, N. Y., a corporation of New York
Application May 19, 1938, Serial No. 208,750
13 Claims. (Cl. 96—24)



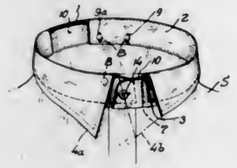
1. In the art of making a lace fabric having a reinforced zone, said fabric having warp threads which are connected by bobbin threads, those steps which consist in making a base fabric from said warp threads, and said bobbin threads to form closed meshes, interconnecting auxiliary warp threads by means of said bobbin threads to said meshes of said base fabric at said zone during the making of said fabric, while leaving the remaining portions of said auxiliary warp threads unconnected to said base fabric, and clipping the remaining portions of said auxiliary warp threads from said lace fabric.

2,164,750
DRAWING AND EXTRUSION DIE
Joseph G. Nadler, Jr., Jersey City, N. J.
Application August 21, 1937, Serial No. 160,289
11 Claims. (Cl. 205—29)



1. In a drawing or extrusion die, a hard thermoplastic die slab composed of a uniform suspension of refractories in glass.

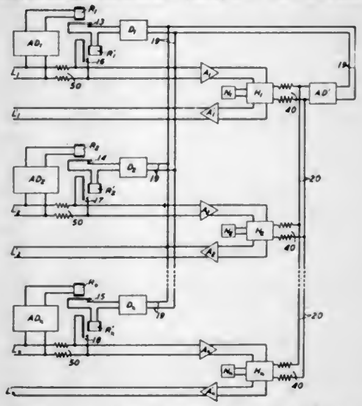
2,164,751
COLLAR AND COMBINATION OF SHIRT AND DETACHABLE COLLAR
Max M. Newman, New York, N. Y.
Application November 9, 1938, Serial No. 239,623
3 Claims. (Cl. 2—139)



1. In combination with the neckband of a shirt, a collar having an outer member and an intermediate member and an inner member, said neckband being located between said inner member and said intermediate member, means adapted detachably to connect the neckband to said intermediate member and to said inner member, said neckband extending longitudinally beyond the respective ends of the collar, the ends of said neckband having means adapted to connect the same to each other, said three members having a common fold zone and having connecting stitches which connect said members to each other, the top of the neckband substantially abutting the portion of said fold zone which is located between said inner member and said intermediate member.

2,164,752
TRANSMISSION CIRCUITS
Harry Nyquist, Millburn, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 17, 1938, Serial No. 214,357
8 Claims. (Cl. 178—44)

1. A plurality of participating signaling stations, an interconnecting station, transmission circuits connecting said signaling stations to said interconnecting station, signal controlled means at said interconnecting station preventing transmission from said signaling stations from reaching said interconnecting station, and means associated with the incoming circuit from each of said signaling stations adapted to disable said



preventive means with respect to said incoming circuit.

2,164,753
APPARATUS FOR TUNNELING IN CONSOLIDATED MATERIAL
Laurie F. Parker, Noroton, Conn., and Harry Leslie Myer, New York, N. Y., assignors to Silas Mason Co., Inc., New York, N. Y., a corporation of Delaware
Application March 24, 1938, Serial No. 197,788
6 Claims. (Cl. 262—4)

1. Apparatus for tunneling in consolidated material, comprising a conveyor muck car loader, muck cars overhung by the conveyor, a working platform and drill support straddling the conveyor muck car loader, a power mucker overhung by the working platform and drill supports carried by the platform at its forward end and adapted for lateral and vertical movement of the drills, the working platform and drill support being longitudinally movable independently of and relatively to the conveyor muck car loader and the power mucker and the muck cars each being movable under and independently of the loading conveyor and the working platform and drill support, in combination with a cantilever connection between the working platform and drill support and the conveyor muck car loader, whereby loads upon the forward section of the platform and drill support are resisted by the conveyor muck car loader, said connection permitting longitudinal movement of the working platform and drill support relatively to the conveyor muck car loader.

2,164,754
METHOD OF SHOEMAKING
Fred Maccarone, Brooklyn, N. Y.
Application June 3, 1937, Serial No. 146,164
6 Claims. (Cl. 12—146)



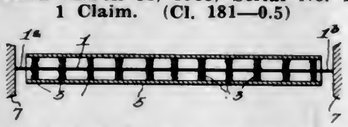
1. In shoemaking, providing a short blank of sole leather having only shank and forepart portions and securing a unitary shank and heel

piece to the flesh side thereof to form a full composite blank having double thickness through the shank portion, adhesively attaching a reinforcing patch over the central ball area of the blank on the flesh side thereof, and splitting the blank through the sole leather portion thereof to divide it into a full composite insole having a skeletonized ball portion reinforced by said patch and a short complemental outsole of grain leather.

2,164,755
GALVANIC BATTERY
Erich Marhenkel, Berlin, Germany, assignor to "Pertrix" Chemische Fabrik Aktiengesellschaft, Berlin, Germany, a joint-stock company of Germany
No Drawing. Application August 10, 1936, Serial No. 95,286. In Germany August 15, 1935
6 Claims. (Cl. 136—103)

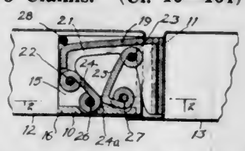
1. The herein described galvanic battery, comprising a positive electrode of the type in which depolarization is effected by the oxygen of air contained within the electrode, a negative electrode, and an electrolyte containing such metal ions as are liable to be transformed into hydroxides and to be deposited on the positive electrode, in which the said positive electrode contains solid sal ammoniac in an amount such that, with the metal-ion concentration corresponding to the intensity of the discharge current and the duration of the discharge occurring in service, precipitation of metal salt on and within the positive electrode is prevented.

2,164,756
ELECTROACOUSTICAL APPARATUS
Arthur J. Sanial, Flushing, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application March 31, 1938, Serial No. 199,322
1 Claim. (Cl. 181—0.5)



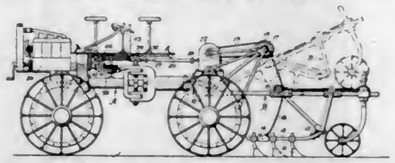
The method of fixing a plurality of tufts of damping material within a relatively long acoustic pipe at spaced points therealong which comprises fastening said tufts individually to a string at predetermined points therealong, thereafter threading said string through said pipe whereby to dispose said tufts at said points within said pipe, and finally securing the ends of said string to members which are fixed relative to said pipe.

2,164,757
CONCEALED HINGE
Joseph Soss, Roselle, N. J.
Application July 22, 1937, Serial No. 154,942
3 Claims. (Cl. 16—164)



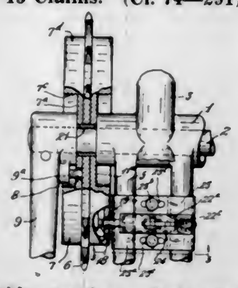
3. In a concealed hinge of the class described comprising two butts movably connected by a pair of links pivoted to each butt, one of said butts comprising a hook-shaped arm consisting of a long part and an angularly extending short part at the free end portion of the arm, both parts having vertical outer wall portions arranged substantially at right angles to each other, said arm having inwardly directed top and bottom flanges integral with upper and lower edges of said vertical walls to form an arm of substantially channel cross-sectional form throughout its length, said flanges being extended at the other end portion of the long part of said arm and including outwardly or laterally projecting parts forming attaching plates for mounting said hook-arm butt in connection with its support.

2,164,758
POWER TRANSMISSION
Ralph Tinker, Fountain City, Wis.
Application May 18, 1938, Serial No. 208,575
5 Claims. (Cl. 97—50)



1. In combination, a tractor and a cultivator pivotally connected thereto, a rotary shaft on the tractor, cultivator-elevating means operatively connected to the shaft and the cultivator, a worm wheel on the shaft, a driven shaft extending longitudinally of the tractor, a worm on said driven shaft meshing with the worm wheel, said driven shaft consisting of a plurality of telescoping sections, and universal joints connecting the sections, a vertical pin on the tractor, a sleeve on the driven shaft pivotally connected to the pin, permitting the shaft a pivotal movement, manually operated means for pivoting the shaft, a motor on the tractor, a drive shaft turned by the motor, and transmission means between the drive shaft and the driven shaft.

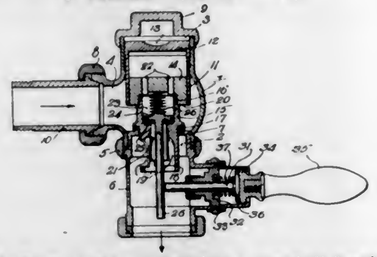
2,164,759
SPROCKET ASSEMBLY FOR BICYCLES
Frederick S. Travis, Cleveland, Ohio, assignor of one-half to Edward M. Spelman, Cleveland, Ohio
Application February 18, 1938, Serial No. 191,247
13 Claims. (Cl. 74—291)



1. A variable speed sprocket assembly for bicycles comprising an outer disk member, an intermediate disk member having sprocket teeth thereon, and an inner disk member, the said disk members having central openings therethrough for the passage of the crank shaft and the outer disk member having means whereby it may be driven by the crank pedal, there being annular chambers provided between the first and third disk members and the intermediate member, said

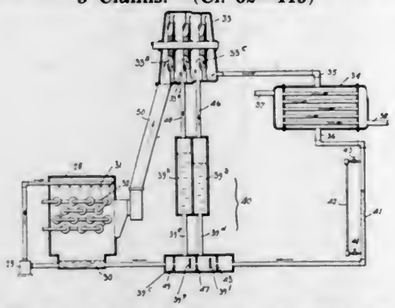
chambers being located on opposite sides of the intermediate disk member, one or more shafts extending transversely of and mounted in the intermediate disk member with their ends projecting into the said chambers, a gear carried by one of the chambered disk members within the chamber thereof and concentric with the axis thereof, an internal gear carried by the other chambered disk member within the chamber thereof and concentric with the axis thereof and spaced radially outwardly from the former gear, pinions mounted on the opposite ends of said shaft or shafts and located in the said chambers and cooperating with the said gears respectively, and movable means connecting the intermediate and inner disk members, whereby the inner disk member may be held against rotation.

2,164,760
FLUSH VALVE
Harold Wesson, Springfield, Mass., assignor to Smith and Wesson, Inc., Springfield, Mass., a corporation of Massachusetts
Application October 3, 1938, Serial No. 232,921
3 Claims. (Cl. 137—93)



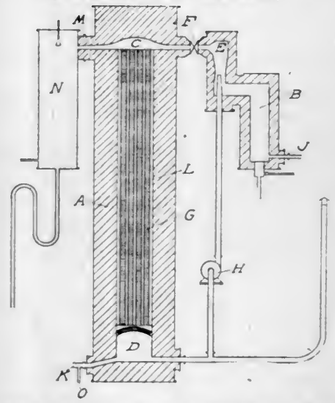
1. A flush valve comprising a conduit having a valve seat, a tubular portion approximately coaxial with said valve seat, a cylinder in said tubular portion, a piston in said cylinder, and a valve connected to said piston for engagement with said seat, said cylinder having its outer periphery loosely threaded in said tubular portion to permit automatic alignment of said valve with said seat.

2,164,761
REFRIGERATING APPARATUS AND METHOD
Carlyle M. Ashley, Maplewood, N. J., assignor, by mesne assignments, to Carrier Corporation, Newark, N. J., a corporation of Delaware
Application July 30, 1935, Serial No. 33,808
5 Claims. (Cl. 62—115)



4. In a refrigerating system, means for increasing the pressure of refrigerant vapors in a plurality of stages, means for condensing compressed refrigerant, means including a plurality of expansion devices each having a fixed orifice for evaporating liquid refrigerant in a plurality of stages at successively lower pressures, means for accumulating a quantity of liquid refrigerant for developing substantial hydrostatic pressures on said orifices in response to relatively high heat load on the system and for accumulating a relatively smaller quantity of liquid for developing relatively small hydrostatic pressures on said orifices in response to relatively low heat load on the system, and means for passing refrigerant vapors from different evaporator stages to different compressor stages in unmixed condition in such manner that the pressure of refrigerant vapor passed to each compressor stage approximates the inlet pressure of said compressor stage.

2,164,762
APPARATUS FOR THE PRODUCTION OF GASEOUS UNSATURATED HYDROCARBONS
Walter Baumann and Otto Hemmann, Leuna, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
Application November 16, 1935, Serial No. 50,134
In Germany November 23, 1934
6 Claims. (Cl. 23—277)

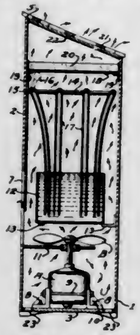


1. Apparatus for the production of gaseous unsaturated hydrocarbons comprising a Cowper converter having a reaction space therein, a heat accumulating brick work located in said reaction space and periodically heated to high temperatures by combustion gas, said brick work defining long vertical spaces for the passage of gas through said converter, said spaces having a free cross section amounting to at the most one tenth of the total cross section of said reaction space, means for cooling the reaction gases issuing from said converter, a short restricted passage beyond the end of said reaction space connecting said cooling means with said reaction space and a combustion chamber in which the formation of said combustion gas takes place, located at the same end of the furnace as said cooling means but arranged at such distance from the path of the reaction gases that these are prevented from passing through said chamber.

2,164,763
PORTABLE AIR CONDITIONER
Monroe Buck, Ferndale, Mich.
Application May 22, 1937, Serial No. 144,239
1 Claim. (Cl. 261—107)

In an air conditioner a complete housing, blower means disposed upon the inner bottom thereof and directed upwardly therefrom, a wa-

ter tank disposed above said blower, a cloth-operating mechanism comprising a frame pivotally secured to said housing and spaced upwardly from said tank, also a series of cloths



spacedly secured to said frame, and the lower portion of said cloths submerged normally within said tank, means for manually varying the extent of said cloths being submerged as aforesaid.

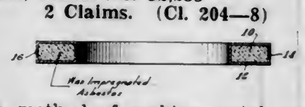
2,164,764

METHOD OF MAKING METAL COVERED GASKETS

Walter Claypoole, Glenham, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Original application March 2, 1935, Serial No. 8,985. Divided and this application November 30, 1935, Serial No. 52,285

2 Claims. (Cl. 204—8)



1. The method of making metal covered asbestos gaskets which comprises saturating a porous blank of asbestos fibre with a wax of low melting point, slightly compressing the saturated blank between two flat plates until the wax saturant has set so as to provide smooth surfaces on said blank, removing said plates and dusting the entire surface of the blank with an electrically conductive powder, electroplating the powdered surface with a suitable metal, forming a small opening in the metal coating and heating the gasket above the melting point of the wax so that the wax will flow out of the asbestos fibre through said opening, and then filling said opening with sealing material so as to hermetically seal the asbestos.

2,164,765

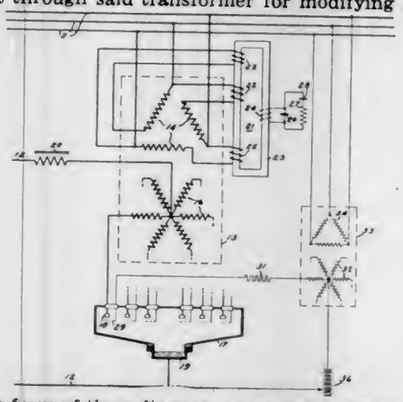
ELECTRIC VALVE CONVERTING SYSTEM

Isadore K. Dortort, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application July 2, 1937, Serial No. 151,557

18 Claims. (Cl. 175—363)

1. In an electric current translating system comprising an alternating current circuit and a direct current circuit, the combination of a transformer having a plurality of windings including a winding connected with said alternating current circuit and a second winding, a plurality of electric valves for connecting said second winding across said direct current circuit for the flow of current therebetween through the different valves during predetermined periods, and means for extending the periods of current flow through said valves at substantially all loads comprising impedance means connected with said transformer operating exclusively in dependence upon the flow of current through said transformer for modifying the



wave form of the voltages appearing in said windings from the wave form of the voltage of said alternating current circuit.

2,164,766

ELECTRICAL TERMINAL PRONG

Arthur M. Draving, Philadelphia, Pa., assignor to Hugh H. Eby, Inc., Philadelphia, Pa.

Application February 13, 1936, Serial No. 63,744

3 Claims. (Cl. 173—361)



2. An electrical terminal prong which consists of a sheet metal strip doubled upon itself to form a cylindrical element having an open end and a substantially rounded end, the side walls at the open end being cut back, respectively, from the seams to provide at least two oppositely disposed semi-circular extensions, each extension having a periphery less than half the periphery of the element.

2,164,767

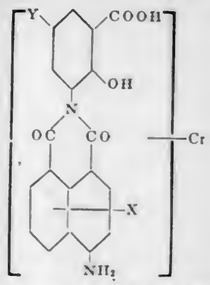
CHROMIFEROUS DYESTUFFS AND PROCESSES OF PREPARING THEM

Wilhelm Eckert, Frankfort-on-the-Main-Hochst, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 8, 1935, Serial No. 44,127. In Germany October 11, 1934

5 Claims. (Cl. 260—270)

5. The chromium complex compounds of the general formula:



wherein Y is a member of the group consisting of hydrogen, chlorine, sulfonic acid and acetylamino and X is a member of the group consisting of hydrogen and SO_2OH.

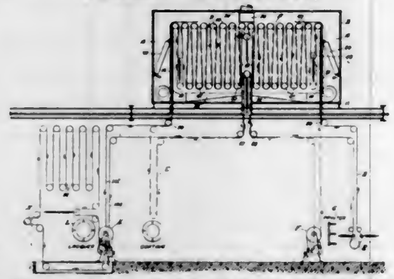
2,164,768

APPARATUS FOR CONVEYING AND DRYING TUBES

John H. Fridén, Maplewood, N. J., assignor to The Sun Tube Corporation, Hillside, N. J., a corporation of New Jersey

Application March 15, 1935, Serial No. 11,283

5 Claims. (Cl. 198—203)



1. In apparatus of the class described, an endless conveyor member, means for supporting a portion of said member in a series of slings, means for driving said conveyor member by pulling the same at a point remote from said slings, and means driven by said conveyor member for applying a pull thereto at another point adjacent said slings.

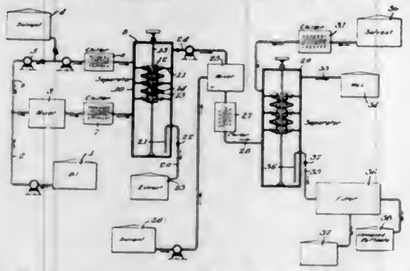
2,164,769

SOLVENT REFINING OF HYDROCARBON OIL

Francis X. Govers, Vincennes, Ind., assignor to Indian Refining Company, Lawrenceville, Ill., a corporation of Maine

Application January 11, 1935, Serial No. 1,331

3 Claims. (Cl. 196—18)



1. A continuous method of separating wax and oil from wax-bearing oil wherein the wax-bearing oil and a selective dewaxing solvent are passed through a vertical countercurrent treating tower comprising a plurality of superimposed stages, and through which tower the wax constituents of the oil move countercurrently to the solvent, which comprises introducing the wax-bearing oil to the lower portion of said tower, introducing to the upper portion of said tower a solvent having the essential selective solvent action of a mixture composed of about 30% sulphur dioxide and 70% orthodichlorobenzene as between wax and oil at 0° F. and below and differing from the oil in specific gravity to substantially the same extent, maintaining the wax-bearing oil and solvent within the tower at a temperature of around 0° F. and below to form in each stage a wax phase relatively rich in wax and a solvent phase relatively lean in wax and relatively rich in oil, centrifugally disposing in the mid-portion of each stage a relatively thin horizontal stratum comprising a mixture of the wax phase from a preceding stage and the solvent phase from a succeeding stage moving in concurrent flow to the peripheral portion of each stage, subjecting the mixture of phases to gravity settling in said peripheral portion, with further separation into wax and solvent phases, respectively, discharging the resulting solvent phase to the preceding stage and the resulting wax phase to the succeeding stage, forming in the top of the tower a wax phase substantially free from oil, and in the bottom of the tower a solvent phase rich in oil and substantially free from wax and withdrawing said phases from the tower.

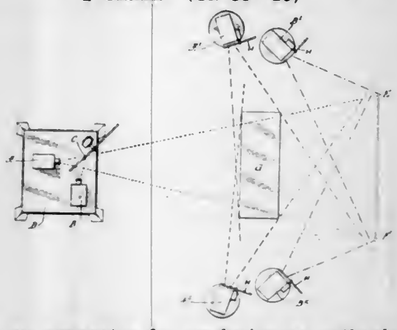
2,164,770

COMPOSITE PHOTOGRAPHY

Carl Louis Gregory, Washington, D. C.

Application November 6, 1936, Serial No. 109,480

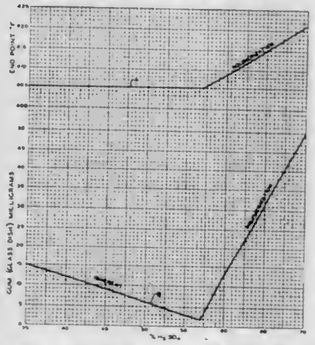
1 Claim. (Cl. 88—16)



In an apparatus for producing an orthochromatic foreground negative with a clear transparent film background and a separate complementary travelling matte negative with an opaque background and clear transparent foreground silhouette; in combination, a darkened stage on which is arranged two cameras with matched objectives fixed on a rigid support, the first of said two cameras having the axis of its objective directed to the center of said darkened stage, a light diverting device fixed on said rigid support near the objective of the first of the said two cameras and positioned to intercept the axial and other light rays entering the objective of the first camera during one half of its cycle of operation and to direct these said light rays to the objective of the second of the two cameras so that said axial ray will coincide with the axis of the objective of the second camera, said second camera being fixed at the same distance from the interception point of the axial ray of said light diverting device as the first camera is fixed from said point of interception and said light intercepting device permitting the light rays to pass to the objective of the first of the said two cameras during the other half of its cycle of operation, in the taking field of said first camera, a foreground area having lamps provided with housings to illuminate only said foreground area and said lamps being provided with controlled shutters adapted to permit the light from said lamps to be cut off from said area or to open and illuminate said area, a white background completely subtending the taking field of said first camera and positioned back of the said foreground area as viewed by the lens of

said first camera, said white background being provided with a second set of lamps with housings to illuminate only said background and said second set of lamps being also provided with controlled shutters adapted to permit the light to be cut off from said background or to open and illuminate said background, an interlocked driving control synchronously operating the shutters of the said two cameras and the light diverting device and the shutters of said first and second sets of lights, the opening in the shutter of the first camera and the openings in the shutters of the lights illuminating the foreground area and the opening of the light diverting device being adjusted in relation to the interlocked driving control to expose the foreground area to the film in the first camera during one half of the cycle of the synchronous revolutions of the shutters and of the light diverting device, the opening in the shutter of the second camera and the light diverting sector of the light diverting device and the shutters of the lights illuminating the white background being adjusted in relation to the interlocked driving control to expose the background to the film in the second camera during the other half of the cycle of the synchronous revolution of the shutters and of the light diverting device and repeating the said half cycles in rapid alternation.

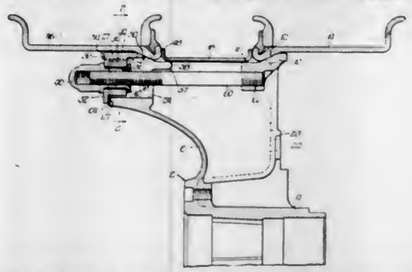
2,164,771
ACID TREATMENT OF CRACKED DISTILLATES
Marcus T. Kendall, Long Beach, Calif., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 15, 1937, Serial No. 148,256
2 Claims. (Cl. 196—40)



1. In the acid treatment of cracked gasoline distillates wherein the distillate is subjected to the action of sulphuric acid, the improvement which comprises contacting the distillate with dilute sulphuric acid of at least about 55% and not substantially in excess of 57% strength whereby the inherent gum is substantially completely removed and the formation of higher boiling polymerization products normally requiring redistillation of the treated oil is substantially prevented.

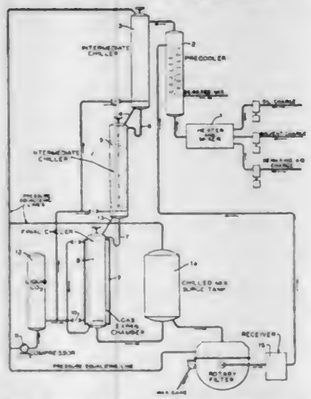
2,164,772
VEHICLE WHEEL
Charles G. Keller, Hyde Park, N. Y.
Application February 9, 1937, Serial No. 124,850
9 Claims. (Cl. 301—13)

1. In a wheel of the class described a central spider member including spaced spokes of U-shaped cross section, bridge members joining the spaced walls of said spokes respectively adjacent their inboard edges and presenting peripherally aligned wedge faces forming an inboard rim seat, an inboard rim seated thereon, a spacer, each of said spokes having a semi-cylindrical socket adjacent its radially outboard edge, said socket comprising side walls presenting axially extending ledges and an end wall, threaded means secured on said end wall, a clamping member supported



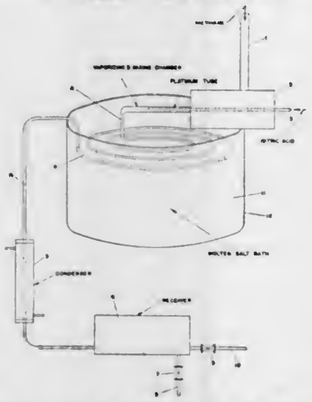
on the ledges of each of said sockets and movable therealong into rim clamping position, said clamping member comprising a bolt rotatable therein and received within said threaded means, said clamping members presenting peripherally aligned wedge faces forming a seat for an outboard rim, and an outboard rim seated thereon, each of said clamping members comprising means projecting in an inboard direction for engagement with the inner periphery of said spacer.

2,164,773
METHOD OF DEWAXING HYDROCARBON OIL
Edwin C. Knowles, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 20, 1937, Serial No. 143,691
3 Claims. (Cl. 196—18)



1. In the dewaxing of wax-bearing mineral lubricating oil, the method comprising mixing the oil with a dewaxing solvent liquid, passing the mixture to the top portion of the uppermost of a plurality of vertical chilling vessels arranged one above the other and each of height relatively great with respect to the cross-sectional area, maintaining said vessels full of wax-bearing mixture gravitating therethrough, surrounding at least in part the lowermost vessel with a body of expanding refrigerant consisting of a normally gaseous refrigerant thereby indirectly chilling the mixture, injecting cold expanded refrigerant into the body of oil and solvent within said lowermost vessel, injecting liquefied refrigerant in the gravitating liquid mixture at intervals throughout its passage through the chilling vessels, passing the vaporized injected refrigerant upwardly through the succeeding vessels in amount sufficient to mildly agitate the gravitating body of liquid without disrupting the crystal structure of the wax, and removing the chilled wax-bearing mixture from the bottom of the lowermost vessel.

2,164,774
PROCESS OF NITRATING METHANE
George K. Landon, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application January 11, 1938, Serial No. 184,386
7 Claims. (Cl. 260—644)



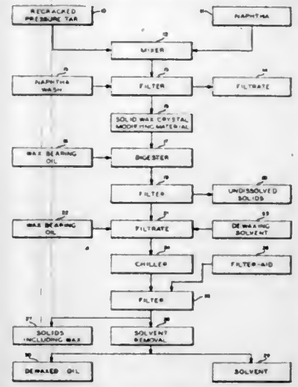
6. The process of nitrating methane which includes producing contact between methane and nitric acid while in the vapor phase in a vessel having a non-ferrous inner surface and at reaction temperature for a period of time within the range of about 0.005 second to about 1.0 second, rapidly removing the reaction mixture from the reaction zone, and cooling it.

2,164,775
WELDING FLUX
Wilber B. Miller, Niagara Falls, N. Y., assignor to Oxweld Acetylene Company, a corporation of West Virginia
No Drawing. Application July 13, 1937, Serial No. 153,362
4 Claims. (Cl. 148—23)

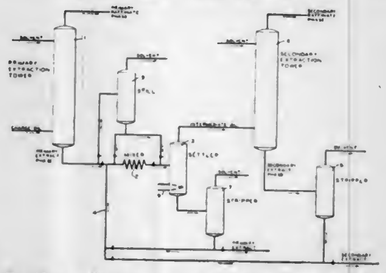
1. Flux, for electric welding, containing as essential ingredients an oxydic compound of titanium and an oxydic compound of zirconium so proportioned that the ratio of titanium oxide to zirconium oxide is between 1.5 and 2.5.

2,164,776
SEPARATION OF WAX FROM HYDROCARBON OIL
Bernard Y. McCarty, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application August 22, 1933, Serial No. 686,245
1 Claim. (Cl. 196—18)

The method of dewaxing wax-bearing mineral oil, which comprises re-cracking cracking still tar to a pitchy residue, extracting the pitchy residue with a light petroleum naphtha, separating the extract from the insoluble residue, digesting the insoluble residue with lubricating oil to form a concentrated solution therof, separating the concentrated solution from insoluble residue, adding the concentrated lubricating oil solution in minor proportion to a wax-bearing oil, chilling the mixture to precipitate wax, and separating the precipitated wax from the chilled oil.

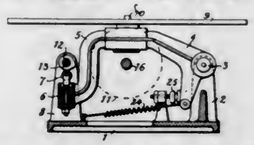


2,164,777
SOLVENT REFINING HYDROCARBON OIL
Bernard Y. McCarty and Howard H. Gross, Beacon, N. Y., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application November 5, 1936, Serial No. 109,234
3 Claims. (Cl. 196—13)



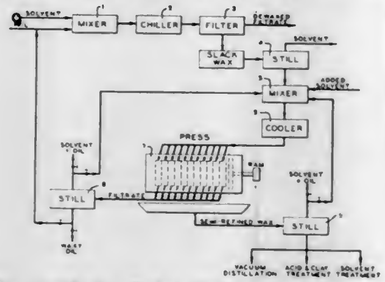
1. In the refining of hydrocarbon oil by solvent extraction to separate the oil into fractions of different viscosity index, the method which comprises extracting the oil with a selective solvent in a primary extraction zone, forming a primary raffinate phase containing oil of high viscosity index and a primary extract phase containing oil of intermediate and low viscosity index, separately withdrawing said phases from the primary extraction zone, incorporating in the withdrawn primary extract phase a precipitant consisting of a separate portion of primary extract phase from which has been removed such oil as separates upon settling the primary extract phase at a temperature substantially below that at which the primary extract phase was formed and from which about half of the solvent has been removed, subjecting the withdrawn primary extract phase containing the incorporated precipitant to settling, thereby forming an oil phase comprising oil of intermediate viscosity index and a heavy extract phase comprising oil of low viscosity index, and separating said phases.

2,164,778
SOUND RECORDING AND REPRODUCING DEVICE
Carl Wilhelm Nystrom, deceased, late of Karlstad, Sweden, by Henrik Fabian Stenman, administrator, Karlstad, Sweden
Application November 13, 1937, Serial No. 174,462
12 Claims. (Cl. 274—9)



1. In a device of the character described, the combination comprising a turntable, movable means adapted for actuating said turntable, and automatic means adapted for moving said turntable away from said means when said movable means have moved to a predetermined position.

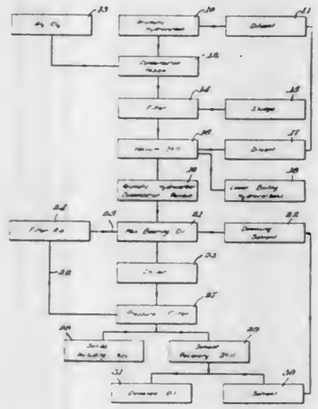
2,164,779
RECOVERY OF WAX
Robert E. Manley, Yonkers, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 15, 1938, Serial No. 195,943
1 Claim. (Cl. 196—18)



The method of separating wax from wax-bearing mineral lubricating oil which comprises mixing the oil with a dewaxing solvent, chilling the mixture to a temperature of 0° F. and below, forming a precipitate of wax containing solvent and some oil, removing said precipitate, adjusting the solvent content thereof to form a mixture containing solvent in amount about equal to the amount of oil present, passing the adjusted mixture to a filter press of the plate and frame type, subjecting it to filtration therein at a temperature of around 50 to 90° F. and under a pressure of around 40 to 300 pounds per square inch gauge to remove liquid constituents of the adjusted mixture and produce a filter cake of reduced liquid content, and thereafter subjecting the filter cake in situ to a pressure in the range of 800 to 1500 pounds per square inch gauge such that the remaining liquid is forced from the wax cake without substantial extrusion of wax through the filtering medium.

2,164,780
REMOVAL OF WAX FROM HYDROCARBON OIL
Ernest F. Pevere, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application March 21, 1934, Serial No. 716,564
1 Claim. (Cl. 196—18)

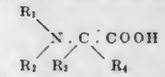
In the dewaxing of a wax bearing oil, in which the oil is chilled to precipitate the wax, and the wax separated from the oil, the step of conditioning the oil for wax separation which com-



prises adding to the wax bearing oil prior to chilling a material consisting essentially of tetranaphthyl $C_{40}H_{26}$.

2,164,781
AMINO-CARBOXYLIC ACIDS AND A PROCESS OF PREPARING THEM
Carl Platz, Frankfort-on-the-Main, and Johann Rosenbach, Wiesbaden, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application July 20, 1935, Serial No. 32,466. In Germany July 26, 1934
9 Claims. (Cl. 260—534)

7. The products of the general formula:



wherein R_1 represents a member of the group consisting of hydrogen and aliphatic hydrocarbon radicals, R_2 represents a member of the group consisting of aliphatic hydrocarbon radicals with at least 6 carbon atoms and cycloaliphatic or hydroaromatic radicals with a side-chain with at least 3 carbon atoms, R_3 represents a member of the group consisting of hydrogen, aliphatic and isocyclic radicals, R_4 represents a member of the group consisting of hydrogen, aliphatic and isocyclic radicals, the products being colorless water-insoluble powders.

2,164,782
SULPHURIC ACID ESTER SALTS OF LEUCO VAT DYESTUFFS
Milton A. Prahl, Milwaukee, and William L. Rintelman, Carrollville, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 23, 1937, Serial No. 160,474
2 Claims. (Cl. 260—276)

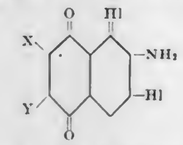
1. The water soluble leuco sulphuric acid ester salt of 2,1(N),7,8(N)-anthraquinone dibenzacridone which dyes cellulose fibers in red shades which are converted by oxidizing agents in the presence of an acid to rich bright reddish blue shades.

2,164,783
LEUCO SULPHURIC ACID ESTERS OF ANTHRAQUINONE SELENAZOLES
Milton A. Prahl, Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 23, 1937, Serial No. 160,475
2 Claims. (Cl. 260—298)

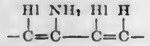
1. The water soluble leuco sulphuric acid ester salt of C,C'-di(anthraquinone-1,2-selenazole) obtainable by acting on C, C'-di(anthraquinone-1,2-selenazole) with sulphur-trioxide in the presence of pyridine and copper, with subsequent treatment of the resulting product with an alkali in water.

2,164,784
PROCESS FOR THE PREPARATION OF DYESTUFFS AND INTERMEDIATES OF THE ANTHRAQUINONE SERIES
William L. Rintelman, Carrollville, and William Dettwyler, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 27, 1935, Serial No. 42,392
5 Claims. (Cl. 260—303)

1. The process for producing beta-beta-dihalogen-anthraquinone dithiazoles, which comprises reacting a tetra-halogen-diamino-anthraquinone compound of the formula



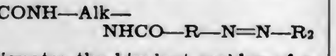
wherein X and Y jointly represent the bivalent radical



with an alkali metal sulfide and condensing the dimercaptan so formed with an aromatic monoaldehyde in which the aldehyde group is attached directly to the aromatic ring, the reactions being carried out at sufficiently low temperature that no material part of the halogen in the beta position of the anthraquinone radical is eliminated.

2,164,785
AZO DYES
Swanie Siguard Rossander, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 20, 1937, Serial No. 175,640
19 Claims. (Cl. 8—46)

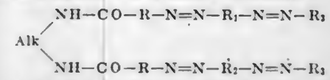
1. A disazo dye having the general formula



wherein Alk designates the bivalent residue of a saturated hydrocarbon having from 2 to 18 carbon atoms in its structure, R is divalent radical of the benzene series, the —N=N— groups are meta or para to the CONH groups, and R_1 and R_2 designate azo dye coupling components.

2,164,786
DEVELOPABLE AZO DYES AND PROCESS OF PRODUCING THE SAME ON THE FIBER
Swanie Siguard Rossander, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 20, 1937, Serial No. 175,641
11 Claims. (Cl. 8—46)

1. An azo dye of the general formula



wherein Alk stands for the bivalent radical of a saturated hydrocarbon having from 2–18 carbon atoms, R stands for a divalent aryl radical of the benzene series, the two valences of R being in a position selected from the group consisting of meta and para, R_1 and R_2 stand for azo-dye coupling components which contain water-solubilizing groups, and R_3 stands for an azo-dye developing component which is free of water and solubilizing groups.

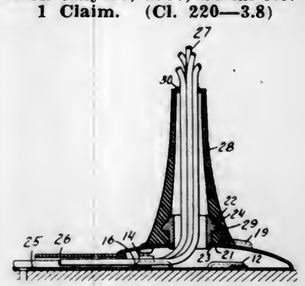
2,164,787
DI(AMINO-AROYL) ALKYLENE DIAMINES
Swanie Siguard Rossander, Wilmington, Del., and Carlton Webster Croco, Woodstown, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Continuation of application Serial No. 161,039, August 26, 1937. This application July 28, 1938, Serial No. 221,718
8 Claims. (Cl. 260—558)

1. As a new azo dye intermediate, a compound of the formula

$$H_2N—R—CONH—R'—NHCO—R—NH_2$$

wherein R is a bivalent aromatic radical of the group consisting of the benzene and naphthalene series of compounds, R' is a bivalent saturated non-aromatic hydrocarbon radical, and the position of NH_2 on R relative to CONH is selected from the group consisting of meta and para.

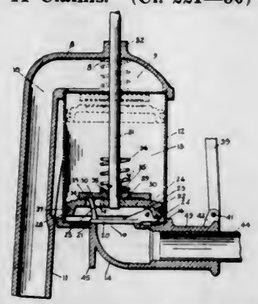
2,164,788
PANCAKE TELEPHONE OUTLET
Charles E. Rutherford, West Hartford, Conn., assignor to The Wiremold Company, Hartford, Conn., a corporation of Connecticut
Application July 17, 1937, Serial No. 154,308
1 Claim. (Cl. 220—3.8)



In an electrical outlet fitting adapted for engagement with the end of a conduit for electrical conductors, the improvement comprising a cover member having an opening to allow the exit of electrical conductors, an annular member secured at one end in the last-mentioned opening said an-

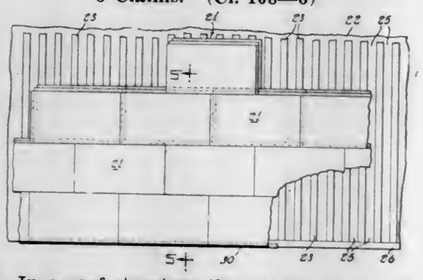
nular member having an exterior fin adjacent the other end, the surface of said fin adjacent the said cover member being substantially perpendicular to the longitudinal axis of said annular member, a tapered sleeve member of resilient material relatively thick at its larger end, the inner surface of said sleeve member adjacent its larger end being provided with an annular groove shaped to embrace the exterior fin on said annular member, whereby said sleeve is firmly attached to said cover member by elastic engagement with the said annular member.

2,164,789
TANK FILLING DEVICE
Cecil H. Sheldon, Manter, Kans.
Application April 7, 1937, Serial No. 135,457
11 Claims. (Cl. 221—80)



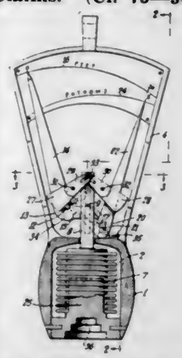
1. In a device of the class described employing a suction pump, a substantially vertical discharge nozzle on the pump, the upper portion of said discharge nozzle being enlarged or funnel shaped, whereby liquid fed at each stroke of the pump will fill the upper portion of the nozzle and gravitate therefrom before the next stroke of the pump brings a fresh supply of liquid.

2,164,790
HEAT-INSULATING ROOF
Reginald H. Smith, St. Albans, N. Y.
Application March 26, 1937, Serial No. 133,098
6 Claims. (Cl. 108—6)



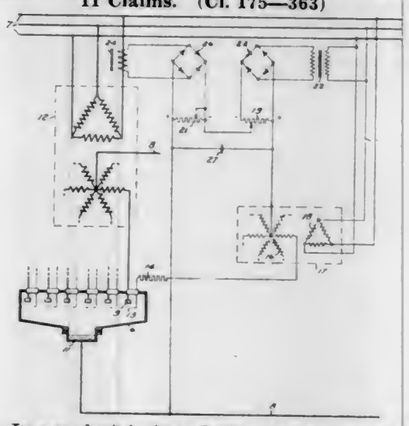
1. In a roof structure the combination, with a continuous imperforate supporting decking and a top surfacing layer of waterproof fabric, of an intermediate formation of high heat insulating characteristics comprising an upper layer of light-weight, non-heat-conducting fabric and a multiplicity of widely separated spacing members evenly distributed between said heat insulating layer and said decking, and in which the edges of said waterproof fabric and said decking are connected together by substantially air-tight closure, the multiplicity of closed air cells so produced between said decking and said insulating layer being uniformly distributed throughout a zone coextensive with a major portion of the area of said decking and constituting a proportion of the volume of space between it and said top surfacing layer sufficient to contribute substantially to the heat insulating properties of the roof structure as a whole.

2,164,791
APPARATUS FOR TAKING SOUNDINGS
Fred Waller, Huntington, N. Y.
Application May 29, 1937, Serial No. 145,453
4 Claims. (Cl. 73—300)



3. Apparatus for taking soundings, comprising, in combination, a frame, a pair of bell cranks pivotally mounted thereon, each of said bell cranks comprising a pointer arm and an actuating lever arm, one of said lever arms being shorter than the other, a collapsible metal bellows mounted on said frame, and means connected to the free end of said bellows to engage and move said actuating lever arms successively as said bellows is collapsing to thereby move said pointers successively.

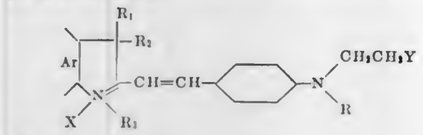
2,164,792
ELECTRIC VALVE CONTROL SYSTEM
Harold Winograd, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application July 1, 1935, Serial No. 29,210
11 Claims. (Cl. 175—363)



1. In an electric translating system, an alternating current line; a direct current line; an electric valve connected with said lines for controlling the flow of current therebetween and provided with an anode, with an associated control electrode and a cathode; a circuit connecting said control electrode with said cathode including a transformer energized from said alternating current line for impressing an alternating potential component on said control electrode, means including a regulator responsive to the magnitude of the voltage of said direct current line for impressing a variable unidirectional potential component on said control electrode; and means responsive to the magnitude of the flow of current, through said valve above a predetermined limit to vary the degree of response of said regulator.

2,164,793
POLYMETHINE DYESTUFFS
Carl Winter and Nikolaus Roh, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application August 31, 1936, Serial No. 98,823. In Germany September 7, 1935
4 Claims. (Cl. 260—240)

4. Polymethine dyestuffs corresponding to the general formula

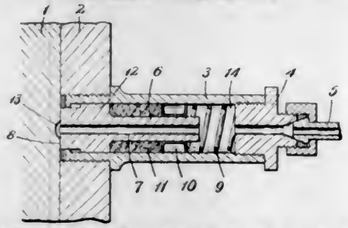


wherein



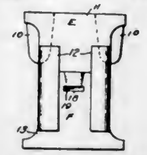
stands for a phenylene nucleus, wherein R_1, R_2 and R_3 stand for alkyl, wherein X stands for the radicle of a mineral acid, wherein R stands for a member of the group consisting of hydrogen, alkyl and benzyl, and wherein Y stands for a member of the group comprising C≡N and its saponification products.

2,164,794
LUBRICATOR
Headley Townsend Backhouse, London, England
Application May 21, 1936, Serial No. 80,980
In Great Britain December 6, 1935
4 Claims. (Cl. 184—6)



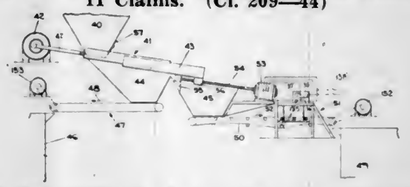
1. A lubricator for applying oil to a moving part of a mechanism only so long as that part is moving and for substantially preventing the flow of oil when the part is at rest, comprising in combination an oil conduit having its end movable into contact with the moving part, means for maintaining pressure contact between the conduit end and the moving part and means for supplying oil to the conduit, the end of the conduit being shaped and arranged to cooperate with the moving part to effect a substantially oil-tight closure of the conduit when the part is at rest and to allow oil to be drawn off from the conduit by the part, when the latter is in motion, said moving part having a surface recess therein arranged to intermittently connect with said conduit and receive oil therefrom.

2,164,795
MATCH HOLDER
Charles E. Berg, Watertown, N. Y.
Application August 27, 1937, Serial No. 161,325
13 Claims. (Cl. 206—48)



1. A match holder for cigarette packages comprising two separable flat members of sheet-like material arranged with adjacent ends in overlapped relation, the outer end of one of said members having means for releasably engaging one end of a cigarette package, the outer end of the other member having means for releasably engaging the other end of said package, one of said members having means for supporting matches, said members having complemental interlocking means for maintaining them in normally fixed overlapped relation.

2,164,796
METHOD AND APPARATUS FOR FEEDING COAL
Byron M. Bird, Columbus, Ohio, assignor, by mesne assignments, to The Traylor Vibrator Company, a corporation of Colorado
Application May 20, 1936, Serial No. 80,822
11 Claims. (Cl. 209—44)

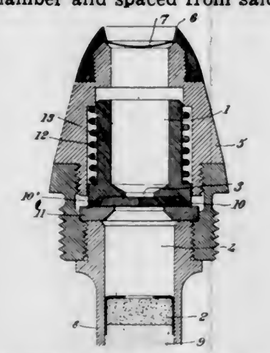


7. The method of cleaning coal comprising separating a constant quantity feed mixture of coal and impurities according to size ranges, feeding the separated mixtures to separate jigs, and keeping constant the feed to said jigs by varying the limiting size range of the feed to each jig to compensate for changes in the amounts of different sizes in the mixture.

2,164,797
PERCUSSION FUSE FOR PROJECTILES
Marc Birkigt, Bois-Colombes, France
Application January 4, 1938, Serial No. 183,344
In Belgium September 28, 1937
8 Claims. (Cl. 102—39)

1. A percussion fuse, especially for projectiles of small caliber, comprising a body having a first and a second chamber therein, passage means forming a restricted opening between said chambers, said first chamber being adjacent the nose of said fuse so that a sudden rise of gas pressure

occurs in said first chamber when said projectile strikes an object, a primer partially filling said second chamber and spaced from said restricted

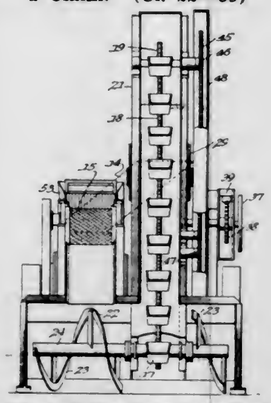


opening whereby gas compressed in said first chamber emerges as a jet through said restricted opening to impinge upon said primer.

2,164,798
HYDROLYTIC DECOMPOSITION PRODUCT OF THE EPIDERMIS OF HOGS, ETC.
Charles H. Campbell, Kent, Ohio
No Drawing. Original application May 3, 1938, Serial No. 211,044. Divided and this application November 15, 1938, Serial No. 240,454
2 Claims. (Cl. 260—112)

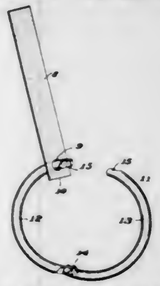
1. A new product of manufacture comprising the hydrolytic decomposition products of the epidermis of hogs and such foreign matter as may be present after removal and separation of the hair or bristles from said epidermis, and which products are substantially short of amino-acids.

2,164,799
SAND ELEVATING AND TREATING APPARATUS
Stanley B. Davies, Kingston, Pa., assignor to Royer Foundry and Machine Co., Kingston, Pa., a corporation of Pennsylvania
Application June 12, 1937, Serial No. 147,965
1 Claim. (Cl. 22—89)



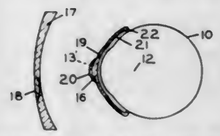
In a machine of the class described, the combination of a supporting vehicle; an elevating mechanism disposed at the front and to one side of the longitudinal center of the vehicle; a sand conditioning and throwing belt mounted at the front and on the other side of the longitudinal center of the vehicle and traveling in a forward direction; transversely disposed means to deliver sand from said elevating mechanism to said forwardly traveling belt, whereby the conditioned sand will be thrown in a direction forwardly of the movement of the vehicle; and a horizontal floor engaging spiral conveyor extending across the front of the vehicle and having sand engaging sections of different lengths positioned on opposite sides of the lower end of the elevating mechanism and adapted to feed sand inwardly to said elevating mechanism.

2,164,800
ABRASIVE ARTICLE
John F. A. Davis, Hamilton, Mass.
Application May 12, 1938, Serial No. 207,535
6 Claims. (Cl. 51—190)



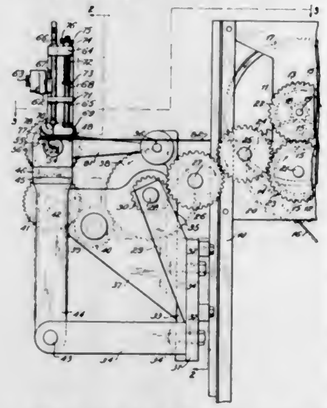
1. An abrasive article of the type specified comprising a plurality of annular units united to form a laminated wheel, each of said units including a plurality of strips of abrasive material annularly arranged and a metal ring upon which said strips are strung and with which the inner ends of said strips co-operate to form a hub from which the body portions of said strips constituting the working surfaces thereof radially and limply extend, said ring being an openable ring having opposing jaws by the engagement of which with one another the ring is held closed, or opened by disengagement of said jaws, and means for binding together the hubs of said units whereby said jaws will be held in engagement with one another.

2,164,801
CORRECTIVE LENS SYSTEM
Arthur F. Dittmer, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application October 22, 1936, Serial No. 107,009
2 Claims. (Cl. 88—54)



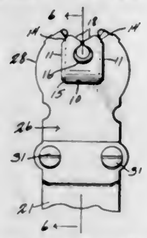
1. A lens system for correcting an aphakic eye comprising a contact lens adapted to be worn on the eye, said contact lens having power to correct the refractive error of the aphakic eye and move the nodal point of the combined eye and contact lens forward from its normal position, said contact lens having also an additional power, and a negative lens supported before the eye, the additional power of the contact lens and the negative lens combining to form a minifying system which returns the nodal point of the eye substantially to its normal position.

2,164,802
STITCHER
Raymond B. Doty, Cleveland, and Fred A. Ross, Lakewood, Ohio, assignors to Bonnar-Vawter Fanform Company, Inc., Cleveland, Ohio, a corporation of Delaware
Application May 19, 1936, Serial No. 80,572
5 Claims. (Cl. 112—2)



1. In a sewing machine for use with material fed at a constant rate of travel, a driving gear, a fixed bearing therefor, a frame for the machine bodily movable back and forth in the direction of feed of said material, a transverse shaft journaled in said frame, a gear on said shaft meshing with said first named gear by which said shaft is rotated, needle reciprocating means driven from said shaft, and means actuated by the rotation of said shaft for moving said machine back and forth in timed relation to the reciprocations of the needle, the gear on the machine riding over the periphery of the first named gear for a short distance on either side of the plane joining their axes when the machine is in its middle position.

2,164,803
THREAD GUIDE AND ADAPTER THEREFOR
Max Duraffourg, New York, N. Y.
Application May 26, 1938, Serial No. 210,280
3 Claims. (Cl. 242—157)

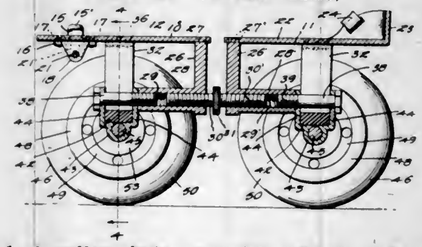


1. As an article of manufacture, an adapter for supporting a thread guide in a holder, comprising a relatively thin metallic plate having a rectangular recess extending inward from its upper end and adapted to receive a thread guide, the plate having two screw receiving apertures adjacent its lower end and the plate at its upper end on each side of the rectangular opening having a flexible tongue extending from the edge thereof and adapted to be bent over around the jaws of a standard guide holder.

2,164,804
PROCESS FOR THE MANUFACTURE OF THROMBIN
Hanns Dyckerhoff, Munich, Germany
No Drawing. Application November 24, 1937, Serial No. 176,395. In Germany December 5, 1936
8 Claims. (Cl. 195—66)

1. A process for the manufacture of thrombin comprising washing fresh fibrin with water, breaking up the fibrin and treating the fibrin pulp obtained with an aqueous solution of common salt, allowing the material to remain for several days at room temperature, filtering the material and treating the filtrate with acetone, absorbing the precipitate again with water in the presence of an inorganic alkaline substance which brings the pH value of the extraction medium to between 6.5 and 7.5, and adding acetone to the clear solution, washing the precipitate with acetone and ether, separating it from the washing liquid and drying the residue in air.

2,164,805
ROLLER SKATE
Clarence B. Ecton, Slater, Mo.
Application March 16, 1938, Serial No. 196,293
5 Claims. (Cl. 280—11.26)

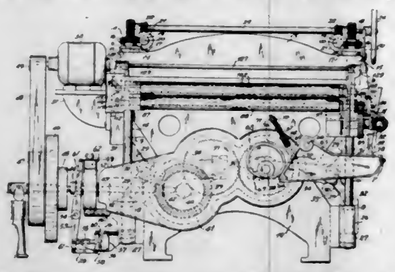


1. A roller skate comprising front and rear truck sections, the front section including a soleplate and the rear section a heel-plate, each plate having a wheel-supporting bracket and an adjusting bracket having a horizontal longitudinal tubular extension in cooperative relation to said wheel supporting bracket, said tubular extensions of the adjusting brackets being reversely screw-threaded interiorly, an adjusting screw having reversely screw-threaded opposite end portions fitted in said tubular bracket portions whereby to connect the two truck sections with longitudinal adjustment, and longitudinal swivel bolts connecting the wheel supporting brackets with said tubular bracket extensions.

2,164,806
DIE PRESS WITH ROLLER FEED
Walter C. Eickman, Dayton, Ohio, assignor to Harris-Seybold-Potter Company, Cleveland, Ohio, a corporation of Delaware
Application April 10, 1937, Serial No. 136,133
12 Claims. (Cl. 164—22)

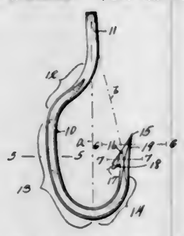
8. In a machine of the class described, a frame, a lower fixed roller and an upper vertically movable roller, gears on adjacent ends of said rollers, a casing for said gears removably and oscillatably mounted on the shaft of said lower roller,

idler gears supported internally upon said casing adapted to mesh with said roller gears for transmitting driving force from one to the other, a stud threaded into the frame and projecting through an opening in the casing of larger size than said stud, whereby adjustments may be made for insuring proper mesh of the idler gears



with the roller gears and whereby the casing with the idler gears may be removed to permit the upper roler to be raised to inoperative position, and means under control of a single operating element for raising and lowering both ends of said upper roller equally and for exerting downward spring pressure upon said upper roller.

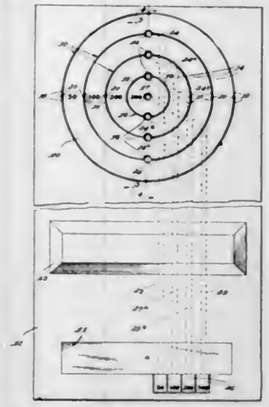
2,164,807
FISHHOOK
Edward Whiting Evans, Brooklyn, N. Y.
Application February 16, 1937, Serial No. 126,084
3 Claims. (Cl. 43—27)



1. A fish hook having a shank extending laterally outward from the eye, then extending inward and away from the eye and curved in an approximate semi-circle and then extending tangentially to form a pointed extremity, the pointed extremity of the hook having an inwardly and rearwardly extending barb having a relatively flat inside face and transversely wider than the extremity of the hook, the lateral edges at the rear of said barb being beveled and the forward edges being sharpened, the extremity of the hook portion outward of the transversely extending barb having a sharp cutting edge.

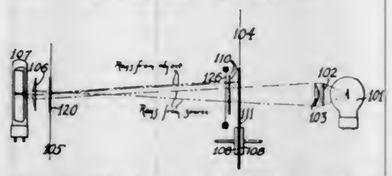
2,164,808
GOLF GAME
Benjamin A. Everett, Tulsa, Okla.
Application September 28, 1937, Serial No. 166,154
6 Claims. (Cl. 273—35)

1. A golf green comprising a surface formed of any suitable material, a substantially centrally disposed sunken cup in said green, a plurality of different sized and substantially annular members concentrically arranged around said cup, said members being sunk in said green with their upper edges substantially flush with the surface thereof, each of said members comprising a plurality of segments, at least one sunken cup between adjacent segments of each member, means connecting said cups to the adjacent segments,



and means connecting the remaining adjacent segments of each member to each other.

2,164,809
PHOTOELECTRIC MUSICAL INSTRUMENT
Raymond C. Fisher, Tacoma, Wash.
Original application July 20, 1932, Serial No. 623,639, now Patent No. 2,055,719, dated September 29, 1936. Divided and this application August 19, 1936, Serial No. 97,239
31 Claims. (Cl. 84—1)

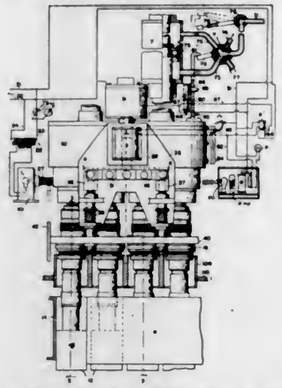


1. An electrical apparatus for producing a varying electric current translatable into a musical tone; said apparatus including an optical train comprising; (1) a source of radiant energy, (2) a photosensitive device receiving radiant flux from said source, (3) means for modulating said flux at a plurality of audio frequencies, comprising two screens, each bearing a plurality of modulating tracks and interposed in said train intermediate said source and device, and (4) interposed in said train intermediate said screens, means stationary relative to said device for focusing on one of said screens an image of at least a portion of each of the modulating tracks on the other screen.

2,164,810
METAL POLISH
Marcellus T. Flaxman, Wilmington, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application December 5, 1933, Serial No. 701,057
4 Claims. (Cl. 87—5)

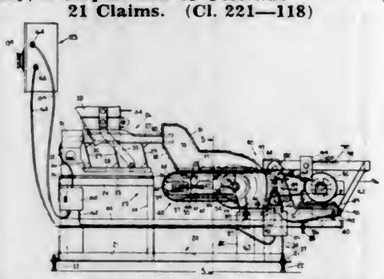
1. A metal polish free from alcohol comprising fine silica about fifteen parts, ammonium carbonate about one part, ammonium soaps of coconut fatty acids about four parts, water about twenty to twenty-five parts and less than one part of free ammonia, the proportions being by weight.

2,164,811
AUTOMATIC HONING MECHANISM AND CONTROL MEANS THEREFOR
Carl W. Floss, Detroit, Mich.
Application February 15, 1938, Serial No. 190,665
14 Claims. (Cl. 51—34)



1. In a machine tool construction, in combination with a frame, a carriage movable in the frame, a head dismountable with relation to the carriage and movable therewith toward and from a position opposite but spaced from work to be operated upon, a working portion carried by said head and movable laterally into and from engagement with the work when said head is opposite the same, means for moving the carriage, separately controllable means, carried by the carriage, for moving said head and for moving the working portion laterally, the head, by dismounting the same from the carriage, being separable from said means for moving the working portion, said means for moving the working portion including an electric circuit for controlling such lateral actuation of the working portion, and means responsive to movement of the carriage for controlling said electric circuit.

2,164,812
CONSTANT-CAPACITY FEEDER
Earle V. Francis and James A. Flint, Columbus, Ohio, assignors to The Traylor Vibrator Company, a corporation of Colorado
Application June 10, 1936, Serial No. 84,496
21 Claims. (Cl. 221—118)



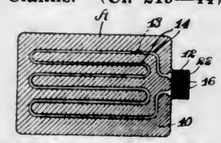
12. In a constant volume feeder, the combination with a scale frame pivoted on a main frame, of a constant speed belt conveyor including head and tail pulleys, a continuous belt and a hopper mounted on said scale frame, means providing a material banking plate and a restricted orifice controlling the flow of material from said hopper under the influence of said belt, and means operated by the unbalanced condition of said pivoted frame for maintaining material in said hopper above the top of said orifice.

18. In a feeder system, the combination with an electric feeder, of a control circuit therefor comprising a circuit leading thereto including a pair of resistors, shunt circuits for each of said resistors, an operating condition indicator, automatically operable circuit control means operated responsive to the position of said indicator and so constructed and arranged that when said indicator is in a predetermined normal position one of said resistors will be shunted, and when in another position both of said resistors will be shunted, and when in a third position neither of said resistors will be shunted, whereby the delivery rate of said feeder will be controlled by said indicator.

19. In a constant capacity feeder, the combination with a pivoted frame, of an endless conveyor mounted on said frame and movable therewith, means for driving said conveyor at a constant speed and in a direction to convey material toward the pivotal axis of said frame, a vibratory electro-magnetic feeder constructed and arranged to deliver material to said conveyor, and means controlled by pivotal movement of said frame for controlling the delivery rate of said feeder.

20. In feeding apparatus, the combination with an electro-magnetic feeder, of means to control the rate of feed of said feeder in response to a variable condition including means for indicating a variable condition as normal or abnormal, electrically operable means constructed and arranged to be immediately responsive to an abnormal condition as indicated by said indicator to adjust the feed rate of said feeder, and electrically operable means constructed and arranged to respond to a sustained abnormal condition as indicated by said indicator to adjust the voltage supplied to said immediately responsive means.

2,164,813
ELECTRIC CULINARY UTENSIL
Robert E. Gunther, St. Paul, Minn.
Application September 8, 1936, Serial No. 99,790
4 Claims. (Cl. 219—44)



1. The method of forming a utensil comprising enclosing an electrical heating element within a continuous metallic tubular member extending from end to end thereof, and casting a utensil body portion about said tubular member.

2,164,814
LOUVER TYPE WINDOW
Melvin J. Griffith, Miami, Fla.
Application December 28, 1938, Serial No. 248,130
5 Claims. (Cl. 189—69)

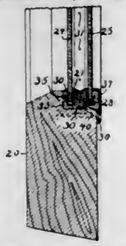
1. A window comprising a frame having hollow stiles and a hollow lower end member in communication with said stiles, louvers extending between said hollow stiles and having pintles extending into the same, said hollow stiles having inner walls through which said pintles extend rotatably, two vertical bars disposed in said hollow stiles respectively, means in said hollow stiles operatively connecting said bars with said pintles to operate said louvers when said bars are moved vertically, a horizontal rod within said lower end member and so connected at its ends with the

lower ends of said vertical bars that said bars and rod are vertically movable in unison, and means extending into said hollow lower end



member and operatively associated with said rod to raise and lower the latter and said bars to operate said louvers.

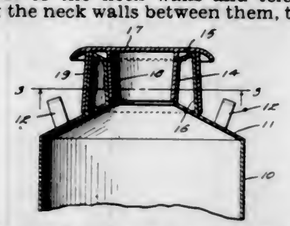
2,164,815
INSULATING MEANS
Joseph N. Hadjisky, Birmingham, Mich.
Application March 22, 1935, Serial No. 12,417
8 Claims. (Cl. 20—56.5)



1. An insulating air cell structure comprising a main frame, a plurality of spaced substantially parallel panels, and a sub-frame supporting the panels with respect to each other and in the main frame, comprising a resilient sheet metal holding element having folded portions defining channels for embracing the edges of the panels along both sides of each panel, apertured integral transverse web portions connecting said folded portions and deformable by stress perpendicular to said panels, said web portions being spaced inwardly from the edges of said panels, filtering means retained between said panels and outside said web portions, means defining vents connecting the filtering means with one side of the main frame, said connecting portions and the filtering means being held in compressed condition in the main frame.

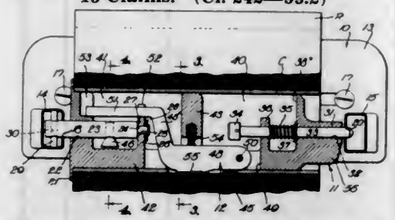
2,164,816
MILK CAN
David A. Harris, New Kensington, Pa.
Application January 24, 1938, Serial No. 186,688
1 Claim. (Cl. 220—24)

A milk can including a body, a frusto-conical top for the body, an upstanding neck on the top including concentric spaced walls inclined oppositely to each other, and a funnel shaped flange connecting the walls at their upper ends, a lid, and a stopper depending from the lid having spaced annular walls inclined to conform to the inclination of the neck walls and telescopically receiving the neck walls between them, the funnel



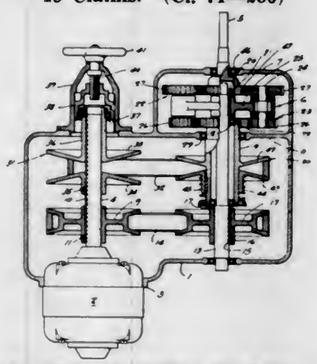
shaped flange forming a trap below the lid to prevent escape of milk to the exterior of the can under severe conditions of service.

2,164,817
PAPER HOLDER
Leo M. Harvey, Los Angeles, Calif.
Application October 21, 1937, Serial No. 170,247
13 Claims. (Cl. 242—55.2)



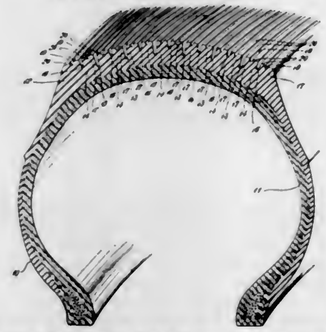
2. A holder for a roll of paper having a core comprising, a spindle on which the core of the roll may be arranged, means supporting the spindle for rotation, and releasable means for limiting rotation of the spindle operable to a released position by a core on the spindle.

2,164,818
VARIABLE SPEED POWER UNIT
Don Heyer and George T. Pfleger, Los Angeles, Calif., assignors to U. S. Electrical Motors, Inc., a corporation of California
Application July 11, 1933, Serial No. 679,896
Renewed June 13, 1938
15 Claims. (Cl. 74—286)



1. In an enclosed electrically driven variable speed power unit, a planetary gear mechanism having two actuating members and a driven member, means forming a constant ratio power transmission actively engaging one of said actuating members of the planetary gear mechanism, means forming a variable ratio power transmission actively engaging the other of said actuating members of the planetary gear mechanism, a casing having walls enclosing, and means supporting, said planetary gear mechanism and the associated power transmissions; a load driving means engaged by said driven member of the planetary gear mechanism and projecting outside of said casing, a driving shaft for operating said power transmissions, an electric motor in axial driving relation to said driving shaft, and means supporting said electric motor by one wall of said casing.

2,164,819
TIRE
De Witt T. Hicks, Waco, Tex., and Vernon L. Smithers, Akron, Ohio
Application December 31, 1936, Serial No. 118,480
2 Claims. (Cl. 152—209)



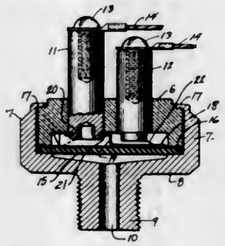
1. A tire having a tread portion consisting of a plurality of relatively wide, continuous, circumferential primary ribs of greater width than height, a pair of continuous, circumferential, secondary ribs of greater width than height superposed upon said primary ribs and formed integral therewith, and a plurality of relatively narrow, continuous, circumferential, tertiary ribs of greater width than height superposed upon said secondary ribs and formed integral therewith, the lateral faces of each tertiary rib being of different heights.

2,164,820
ATTACHMENT FOR ELECTRIC RAZORS
Bernard Herbert Jean, Bay City, Mich.
Application April 29, 1938, Serial No. 205,086
2 Claims. (Cl. 30—34)



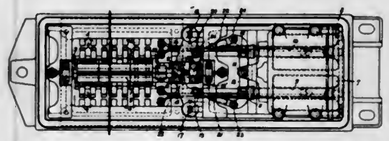
1. An attachment for an electric razor, comprising an elongated channel shaped body provided with a flat bottom wall and parallel side walls disposed at an inclined angle with respect to the bottom wall, a skin friction strip seated in the channel and shaped to define a skin engaging edge exteriorly of the channel, a flange formed on the outer longitudinal edge of one of said side walls and directed substantially toward the other side wall, the latter wall being of less width than the flanged wall and having its outer longitudinal edge beveled and inclined toward the flanged wall for cooperation with the flange for securing the strip within the channel with its outer portion disposed at an angle to its seated portion, and means for securing the body to the razor with said skin engaging edge in advance of the cutting means of the razor for disposing hairs perpendicular to the skin to be received by the cutting means accordingly.

2,164,821
FLUID OPERATED SWITCH
Morris Katcher, New York, N. Y.
Application July 23, 1937, Serial No. 155,161
6 Claims. (Cl. 200—83)



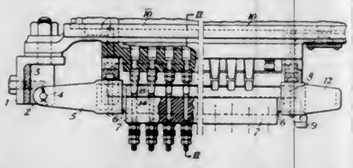
1. A fluid operated switch comprising a casing having a chamber formed therein, the bottom portion of the casing having a passage through it leading into said chamber, a flexible diaphragm in said chamber extending across and sealing said passage, a pair of spaced terminals insulatively mounted in the upper portion of the casing having their inner ends exposed to the interior of the casing, and a metallic plate spring in the chamber above said diaphragm having a raised portion at one end in contact with the first of said terminals while the opposite end of the spring is normally out of contact with the second of said terminals, the opposite sides of the spring intermediate said ends being held down at all times by portions of the casing against substantial motion towards said second terminal, said diaphragm bowing up the spring between said sides against said second terminal when pressure is sent through said passage.

2,164,822
ELECTRICALLY OPERATED SWITCH MECHANISM
Arthur Greenwood Kershaw and Norman Greenwood Kershaw, London, England, assignors, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 3, 1937, Serial No. 151,878
In Great Britain August 26, 1936
12 Claims. (Cl. 200—98)



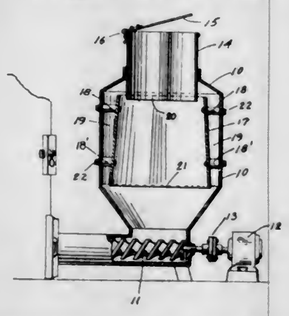
1. Electrically operated switch mechanism comprising a pivoted contact carrying member rockable between two extreme positions, a rocking arm secured to said member and provided with a driving and locking head, and means including two operating arms pivotally mounted at one end on opposite sides of said head and each provided at the other end with a roller which cooperates with said head for rocking said member between its two extreme positions.

2,164,823
RELAY DEVICE
Arthur Greenwood Kershaw, London, England, assignor, by mesne assignments, to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application September 10, 1937, Serial No. 163,284
In Great Britain January 7, 1937
3 Claims. (Cl. 200—168)



1. In combination, a frame which supports a device having contacts mounted thereon, a plurality of terminal boards pivotally attached at one end to said frame for individual swinging movement toward and away from the contacts of said device, and contacts mounted on each terminal board in such positions that they will become engaged with or disengaged from associated ones of said first mentioned contacts according as the terminal board is swung toward or way from said frame.

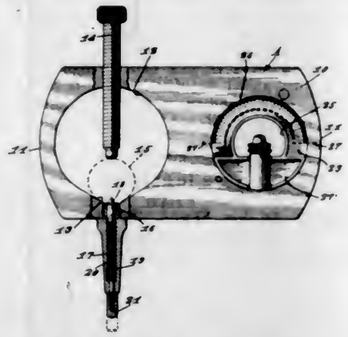
2,164,824
HOPPER
George Kohlhardt, Wauwatosa, Wis.
Application June 17, 1937, Serial No. 148,810
1 Claim. (Cl. 221—118)



The combination with an outer shell of an inner hopper shell, said inner shell being of conical construction having its lower edge greater in diameter than its upper edge, spacers attached to said inner shell, said spacers disposed for suspending said inner shell from said outer shell permitting air circulation between said inner and outer hopper shell, said outer shell terminating into a hopper at its lower end to receive material dispensed by gravity from said inner hopper shell.

2,164,825
TOOL
Robert Lack, Pomona, Calif.
Application January 4, 1938, Serial No. 183,379
2 Claims. (Cl. 33—189)

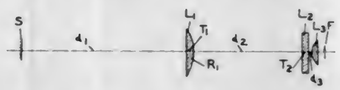
1. A tool of the kind described comprising a body having a work-receiving opening wholly within the same and also a V-shaped notch communicative with the work-receiving opening, a punch guide barrel connected with the body and opening into the notch, a punch slidably fitted within the barrel for projection into the V-shaped notch, spring tensioning means confined within the barrel and active upon the punch for projecting the same into the notch, and a clamping screw fitting the body for axial alignment with and directly opposite the punch to be projected into the opening in said body.



2,164,826
PURIFICATION OF IMPURE NOBLE METALS
Herbert Langwell, Epsom, and John Francis Short, Ewell, England
No Drawing. Application April 22, 1938, Serial No. 203,676. In Great Britain May 7, 1937
9 Claims. (Cl. 75—118)

1. The method of preparing catalysts consisting of purified noble metals in finely divided form which consists in obtaining from a solution of a salt of the impure metal a precipitated reducible salt thereof in the presence of an eventually separatable inert carrier, drying the precipitated mass including the inert carrier, igniting the mass at a temperature at which the impurities are oxidised and the noble metal is obtained in reduced form, and then chemically removing the oxidised impurities and the residual inert carrier, leaving the purified metal in disintegrated form.

2,164,827
OPTICAL SYSTEM
Aaron A. Levin, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application November 23, 1936, Serial No. 112,215
3 Claims. (Cl. 88—24)

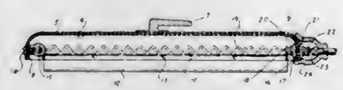


1. A linear image forming optical system for sound recording and reproducing units comprising a positive cylindrical lens, a second positive cylindrical lens spaced from the first cylindrical lens and having its axis perpendicular to the axis of said first cylindrical lens, and a positive spherical lens located closely adjacent the second cylindrical lens on the side opposite the first cylindrical lens, the conjugate foci of the first cylindrical lens and the spherical lens and those of the second cylindrical lens and the spherical lens being substantially coincident, said lenses being all simple lenses.

2,164,828
PROCESS OF REPRODUCING SOUND RECORDS OR TALKING MOTION PICTURES
Friedrich Lierg, Vienna, Austria, assignor of one-half to Oskar Czeija, Vienna, Austria
No Drawing. Application September 18, 1935, Serial No. 41,177. In Austria September 22, 1934
3 Claims. (Cl. 101—149)

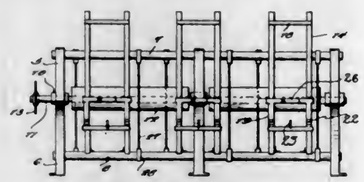
1. Process of producing sound waves strips or bands by printing by means of fatty printing dyes from a flexible matrix in the shape of a strip or band, which consists in imparting to the dye-taking places of the matrix in the form of a sound waves image a basic character by treating a silver image developed in a halogen silver gelatine emulsion with a bleacher to which an alkali is added, applying to the matrix a fatty dye of an acidic character, and printing from the matrix in a device for printing with fatty dyes.

2,164,829
WINDSHIELD WIPER
Harold B. MacRobert, Florence, Ontario, Canada, assignor of one-half to Roscoe L. MacRobert, Toronto, Ontario, Canada
Application July 15, 1938, Serial No. 219,431
3 Claims. (Cl. 219—19)



2. A combined windshield wiper and defroster comprising a casing formed of a pair of elongated nested shells, semicircular in cross section, a perforation through both shells at one end, a pair of laterally spaced perforations through both shells at the opposite end, securing means passed through the registering perforations in said shells to retain the assembly and an electric element carried thereby.

2,164,830
AUTOMATIC MULTIPLE LAWN MOWER GRINDING MACHINE
Samuel W. McGee, Franklin, Pa.
Application August 25, 1938, Serial No. 226,718
1 Claim. (Cl. 51—26)



A lawnmower grinding machine comprising a main frame including standards connected in spaced relation by longitudinal upper and lower bars, a drive pulley extending longitudinally of said frame, mower supporting frames mounted on the bars of said main frame each having inclined tracks on opposite sides of said main frame, mower holding brackets slidably mounted on the tracks of said supporting frames, means detachably connecting the mowers to said brackets, and belt guide wires extending between the upper and lower bars of said main frame and slidably connected thereto.

2,164,831
COLLAR HOLDER
Robert Moore, Providence, R. I., assignor to Freeman Daughaday Company, Providence, R. I., a corporation of Massachusetts
Application July 30, 1936, Serial No. 93,398
3 Claims. (Cl. 24—81)



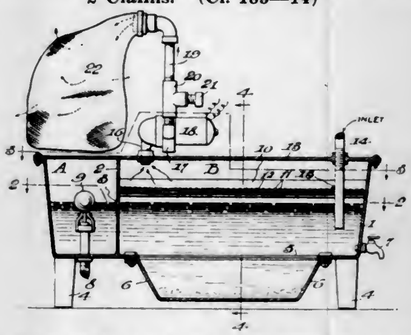
3. In a collar holder, a rear element comprising a part having an extension, said extension having a lug, a second part having a slot for receiving said lug, said second part comprising a hollow tubular member open at one end and adapted to slide over the extension on said first part, said parts having jaw clips secured to their inner ends and resiliently urged towards their outer ends, a sleeve attached to said first part and extending over said extension in spaced parallel relation thereto, said second part sliding over said extension and under said sleeve.

2,164,832
SLIDE-COVER CONTAINER
Ferdinand W. Nitardy, Brooklyn, N. Y., assignor to E. R. Squibb & Sons, New York, N. Y., a corporation of New York
Application May 26, 1934, Serial No. 727,600
7 Claims. (Cl. 206—42)



1. In a container, a body at least one of whose end walls has an outwardly extending flange, and a slide cover in juxtaposition to at least part of the flange, the cover being attached by means of a member contacting the bottom of the body.

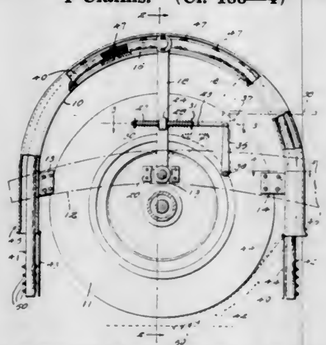
2,164,833
AIR CLEANING AND CONDITIONING APPARATUS
Joseph T. Norman, Shickshinny, Pa.
Application September 13, 1937, Serial No. 163,681
2 Claims. (Cl. 183—14)



1. In apparatus of the class described, a unitary structure comprising a tank, divided by a partition into two side-by-side chambers, one chamber constituting a water supply chamber and the other a gas washing chamber, a cover for said tank, means securing said cover to said tank over said chambers, an inlet pipe carried by said cover and extending into said washing chamber, an outlet pipe and a suction-blower with motor mounted on and carried by said cover, a filter screen in said washing chamber below the top

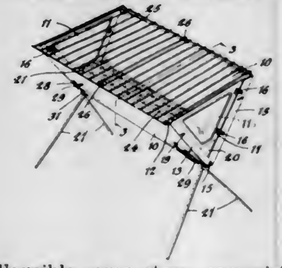
thereof and serving as a partition for said washing chamber, dividing it into an upper air space and a lower liquid space, and means to admit liquid to said water supply chamber, said first-mentioned partition having means to pass liquid from said supply chamber to said washing chamber at the level at which the liquid is to be maintained in said washing chamber, said inlet pipe projecting through said screen and having its delivery end continuously immersed in the liquid in the washing chamber and said outlet pipe communicating with the air space above the screen in said washing chamber.

2,164,834
AUXILIARY BRAKING DEVICE FOR VEHICLES
Harry Owen, Roosevelt, Utah
Application October 4, 1938, Serial No. 233,311
4 Claims. (Cl. 188—4)



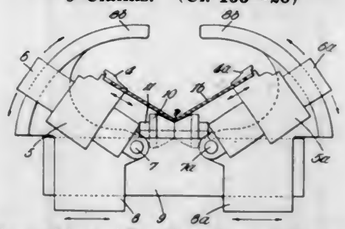
1. In a vehicle having traction wheels, the improvement which comprises auxiliary braking devices, one of said devices being operably associated with at least one of said wheels; each of said devices comprising a casing mounted on parts of the vehicle; a shoe within said casing; means for moving said shoe within said casing; and an essentially flexible, substantially inextensible friction element, essentially fixedly secured to said shoe, extending throughout said casing and projecting from the ends thereof; the projecting end portions of said friction element being freely downwardly dependent in localities near the front and the rear, on the line of travel, of the corresponding traction wheel; the ends of said friction element being provided with friction augmenting means on one face thereof.

2,164,835
CAMP STOVE OR THE LIKE
Charles L. Pearson, Buffalo, and Robert L. Richardson, Eden, N. Y.
Application February 8, 1939, Serial No. 255,286
13 Claims. (Cl. 126—29)



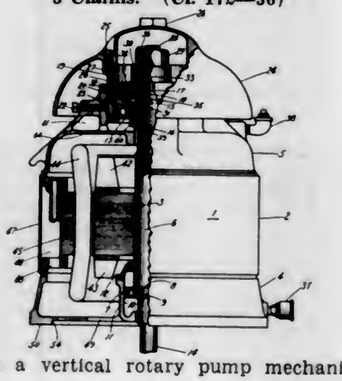
2. A collapsible camp stove, comprising pivotally-connected, counterpart side walls movable to open and closed positions, a grid adapted to be supported by said side walls when the latter are in an open position, counterpart, foldable end walls, one of which is pivotally connected to each of said side walls and adapted to be detachably connected to the other, and supporting legs connected to said side walls.

2,164,836
PRODUCTION OF PROFILED SECTIONS FROM SHEET METAL BY ROLLING
Emil Penkala, London, England, assignor to Metal Trim Limited, London, England, a British company
Application June 19, 1937, Serial No. 149,218
In Great Britain January 26, 1937
9 Claims. (Cl. 153—28)



1. A machine of the class described, comprising at least two relatively closely spaced pairs of profiling rolls designed to act in series on a strip of material to change the cross-sectional shape thereof, at least one guide member arranged between said pairs of rolls and provided with substantially parallel faces that engage and embrace the marginal portions of the strip edge and thus cause accurate movement and delivery of the strip, and means for adjustably supporting said guide member, said means comprising a swinging element having a pivot substantially parallel with and adjacent the approximate virtual axis along which the strip travels, and a carrier element adjustable longitudinally of said swinging element, said guide member being wholly disposed on said carrier element.

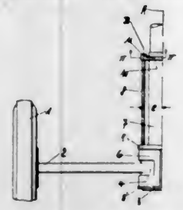
2,164,837
ADJUSTABLE ROTARY PUMP HEAD
George T. Pfleger, Los Angeles, Calif., assignor to U. S. Electrical Motors, Inc., a corporation of California
Application February 19, 1934, Serial No. 711,918
Renewed October 12, 1937
5 Claims. (Cl. 172—36)



1. In a vertical rotary pump mechanism, a

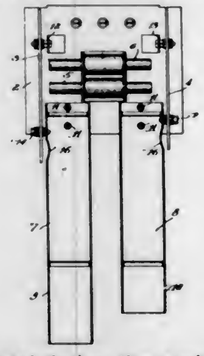
vertical electric motor having a stator and a rotor, a shaft connected to the rotor, a thrust bearing for supporting the rotor and its associated parts, and means for axially adjusting the position of said shaft with respect to said bearing, said motor also having a stationary housing, open at the top, and a weather proof cover for said housing, said cover being vertically adjustable with respect to said housing and having means to support said thrust bearing.

2,164,838
SPRINGING OF THE WHEELS OF MOTOR VEHICLES
Ferdinand Porsche, Stuttgart, Germany, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany, a company of Germany
Application February 16, 1934, Serial No 711,575
In Germany February 18, 1933
20 Claims. (Cl. 267—57)



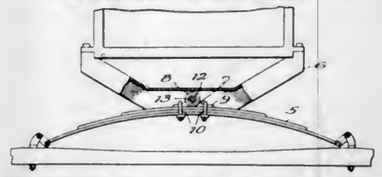
1. In a vehicle having a chassis, an axle having a wheel co-axially mounted thereon, means for pivotally connecting said axle to said chassis to provide for swinging of said axle relative to the chassis about a substantially horizontal axis, and a torsion spring connected to said chassis and said axle comprising a flexible rod positioned substantially in said axis to resist swinging of said axle relative to said chassis.

2,164,839
SIGNAL DEVICE
Lloyd Rittenhouse, Honeoye Falls, N. Y., assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y., a corporation of New York
Application October 12, 1938, Serial No. 234,643
3 Claims. (Cl. 116—149)



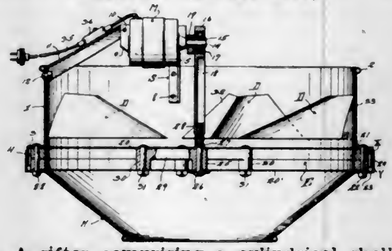
1. In a signal device, the combination with a supporting plate, of a chime bar mounted thereon and having only two nodal points, the chime bar being attached at such nodal points and extending beyond said points of attachment less than half the distance between said points of attachment, and a housing mounted on the plate and embodying a resonance chamber, said housing being arranged parallel to the chime bar, and the resonance chamber having an opening located opposite the portion of the chime bar between one end and the nodal point nearest to that end.

2,164,840
BEARING FOR VEHICLES
John Paul Rock, Duluth, Minn.
Application November 30, 1937, Serial No. 177,359
3 Claims. (Cl. 267—52)



1. In combination with a vehicle spring and channeled frame, a bearing block secured to the spring and positioned between the sides of the channeled frame, a bushing housed bolt, the bushing and bolt extending completely through said block and channel sides, and a nut threaded on said bolt for engagement with one end of the bushing, the bolt head engaging the opposite end of the bushing whereby pressure on the nut effect a spreading of the bushing into fixed engagement with the channel frame and bolt.

2,164,841
SIFTER
Marie L. Schneider, Forest Hills, N. Y.
Application January 13, 1937, Serial No. 120,434
2 Claims. (Cl. 209—310)

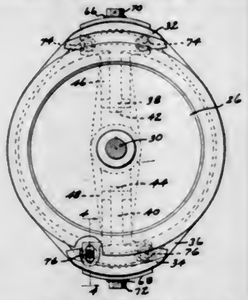


1. A sifter comprising a cylindrical shell, an outstanding flange carried by the lower end of said shell, a frustro-conical hood extending below said shell and provided with an outstanding flange at the large end thereof, an annulus interposed between said flanges, a pair of screen members disposed one on each side of said annulus, means securing said annulus, screen members and flanges together, a spider disposed between said screen members and axially thereof, a coil spring secured axially to said spider, and a vibrating means secured to said coil spring and supported from said shell.

2,164,842
REFRIGERATING APPARATUS
Harry F. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 19, 1937, Serial No. 175,493
7 Claims. (Cl. 64—11)

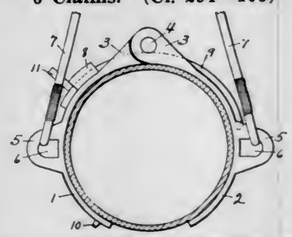
1. A flexible coupling comprising a rotatable driving member, a rotatable driven member ro-

tatable about substantially the same axis as the driving member, each of said members being



provided with a V-belt groove, and a V-belt lodged within said grooves connecting the driving member and the driven member.

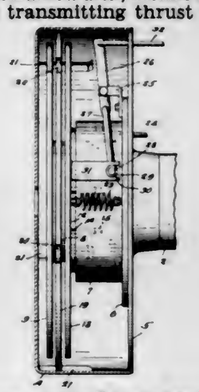
2,164,843
CASING PICK-UP ELEVATOR
Wesson W. Smith, Plainville, Kans.
Application March 14, 1938, Serial No. 195,798
6 Claims. (Cl. 294—106)



1. In a casing pick-up elevator, an elevator element of the class described comprising two arcuate jaws, each jaw of a desired width and segmental portion of an arc and hingedly connected, the cavity of each confronting each other and the free ends rockable from each other to open the jaws and toward each other to a closed position, an arcuate plate slideably carried by one of said jaws and adapted to seat on the other jaw and means to equally position the plate on each jaw adjacent the hinge to lock the jaws in a closed position.

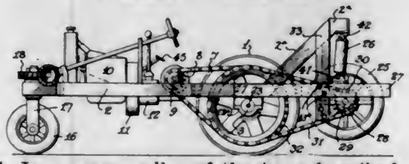
2,164,844
BRAKE
Chester A. Snider, Huntington, Tex., assignor of one-half to John S. Redditt, Lufkin, Tex.
Application May 7, 1937, Serial No. 141,334
1 Claim. (Cl. 188—72)

In a vehicle brake the combination with an axle housing and a flange thereon, of a ring bearing against the flange, a barrel extending therefrom and spaced from but concentric with the housing, a sleeve mounted on the housing and abutting against the ring, said sleeve and barrel cooperating to form an annular chamber, a disk abutting against the sleeve, means extending through the disk, sleeve, ring and flange for holding them together detachably, a tubular piston slidable within and guided by the annular chamber, a disk carried thereby and movable therewith, an apertured disk mounted between and normally spaced from the first named disk, tension springs outside of the barrel and connecting the ring to the disk of the piston thereby to hold said disk normally retracted from the interposed disk, thrust arms extending from the spring-restrained disk, an operating lever fulcrumed between the flange and said spring-restrained disk, means on the lever for engaging and transmitting thrust to the arms, a



rotatable drum normally concealing the disk, springs and operating lever, and ribs on the drum slidably engaging the body of the opposed disk, for transmitting motion from the drum to said disk.

2,164,845
POWER ROLLER FOR COMPACTING MATERIALS USED IN VARIOUS TYPES OF SURFACING
Boyd Curtis Steed, Salisbury, and Howard Brown Wentz, Statesville, N. C.
Application August 28, 1936, Serial No. 98,389
7 Claims. (Cl. 94—50)

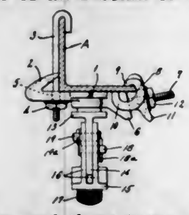


1. In a power roller of the type described, the combination of a front frame, a front wheel, means for steering same, twin rollers, an engine independently controlled means operatively connecting said rollers with and driving them from the engine for easily controlled operation under its own power, a stationary shaft on which said rollers are revolubly mounted, a rear frame pivotally connected to said shaft and swingable downwardly to an angle relative to the front frame, an axle carried by said rear frame, wheels rotatably mounted on said axle, sprockets attached to and rotatable with said wheels, and power means for raising and lowering the pivotal rear frame to bring the wheels into and out of contact with the ground and thereby to correspondingly raise or lower the rollers.

2,164,846
MOUNTING DEVICE
Allison J. Thompson, Cleveland, Ohio, assignor to The Thompson Electric Company, a corporation of Ohio
Application November 6, 1936, Serial No. 109,467
3 Claims. (Cl. 248—228)

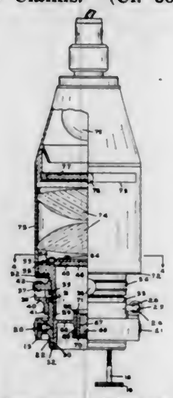
3. A suspension fitting of the class described comprising a bracket having a plane face for engagement with the flat face of different structural iron members such as angles or I-beams, said bracket carrying at one end adjustable clamping

means adapted to engage an edge of said structural member, said bracket having at its other end a hook extending above said plane face and toward said clamping means in position to engage the flange edge of an I-beam or the outer face



of an angle leg, and there being an opening in the hook end of said bracket through which securing means may be passed to hold said hook end of said bracket against the leg of an angle beam.

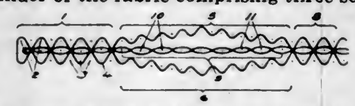
2,164,847
PROJECTOR
Otto E. Trautmann, Irondequoit, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application July 2, 1937, Serial No. 151,689
5 Claims. (Cl. 88—24)



1. A projector comprising a support, a shaft pivotally mounted in said support for movement about a horizontal axis, a ring carried by said shaft, a second ring pivotally mounted in the first-named ring, the pivotal axis of the second ring being coplanar with and perpendicular to the axis of the shaft, a tube, a diapositive support at one end of said tube, a sleeve within said tube, an objective lens slidably mounted in said sleeve, means for locking said lens in said sleeve so that its rear nodal point is located a predetermined fixed distance from said diapositive support, means for slidably and rotatably mounting said tube in the second ring, means for locking said tube in said ring so that the front nodal point of the lens is coincident with the pivotal axes of the shaft and second ring, and illuminating means above said diapositive support.

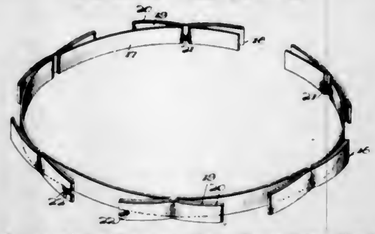
2,164,848
BED BLANKET OR PLAID
Ernst Harald Wallin, Arvika, Sweden, assignor to Cajs-Marie Wallin, Arvika, Sweden
Application November 19, 1934, Serial No. 753,703
In Sweden October 26, 1932
1 Claim. (Cl. 139—408)

An improved blanket or plaid comprising a fabric napped on both sides and interwoven along its four edges to form a single united layer, the remainder of the fabric comprising three separate



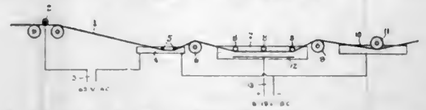
and distinct layers and the intermediate layer being formed by warp threads and weft threads both of loosely twisted yarn forming a thin loose fabric.

2,164,849
PISTON RING AND EXPANDER
John Williams, Philadelphia, Pa.
Application May 17, 1937, Serial No. 143,208
4 Claims. (Cl. 309—43)



1. In a structure of the class described, the combination of a split annular supporting band looped upon itself in the direction of its length to provide spaced tangential springs each having overlapping portions connected by a bight at the free ends of the springs respectively and adapted to be seated in a piston ring groove, a piston ring adapted to fit in said groove surrounding said springs to be expanded thereby and provided with prominent inner circumferential faces spaced to contact and wear against the edge margins of said springs near the bight portions thereof while the middle portions of the free ends of said springs remain out of contact with the ring to preserve the unbroken continuity of the band when the portions of the springs in contact with said faces of the ring wear through and become severed at the free ends of the springs, and stop lugs struck from the bight portions of springs opposite the ends of the band and disposed to engage the ring in the space between the prominent faces thereof for limiting the band against rotation relative to the ring.

2,164,850
METHOD OF CONDITIONING CHROME ALLOY WIRE AND APPARATUS FOR THE PRACTICE OF SAID METHOD
William H. Wood, South Euclid, and Oscar C. Trautman, Parma, Ohio, assignors to Ira Crouse, Conneaut, Ohio
Application March 10, 1936, Serial No. 68,088
7 Claims. (Cl. 148—4)



1. A method of conditioning in continuous operation a wire, or the like, formed of an alloy which softens and becomes more ductile when quickly quenched from a heated condition, comprising the steps of advancing such wire through an electrically conductive liquid bath; heating a

section of such wire as it is advanced, by passing through such section a heating current of electricity supplied through such bath, which current is of strength sufficient to heat the wire to the desired temperature as it enters the bath; maintaining such bath at a desired temperature of quench; advancing such wire from the quench bath through a pickling bath; and passing through the liquid of the pickling bath, between an anode therein and the wire passing therethrough, a direct current of electricity from a source of electromotive force, one terminal of which is connected to such anode and the other terminal of which has electrical connection through such quench bath with the wire being treated.

2,164,851

PROCESS OF SEPARATING MERCAPTANS CONTAINED IN A HYDROCARBON LIQUID

David Louis Yabroff, Berkeley, and Ellis R. White, Albany, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application February 8, 1937, Serial No. 124,690
9 Claims. (Cl. 196—30)

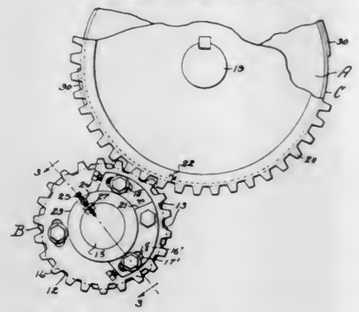
1. In the process of separating organic acid reacting substances contained in a water-insoluble neutral or basic organic liquid, the steps comprising treating said liquid with an aqueous solution of a strong base containing a substantial amount of a dissolved alkali metal salt of a phenyl-acetic acid under conditions to absorb at least a portion of said acid reacting substances in said aqueous solution and to form two liquid layers, one comprising the aqueous solution containing absorbed acid reactiong substances and the other consisting essentially of the treated organic liquid, and separating the layers.

2,164,852

IMPRINTING SYSTEM FOR PRINTING PRESSES

Richard Zimmerman, Lawrence, Kans.

Application August 30, 1937, Serial No. 161,676
1 Claim. (Cl. 101—91)



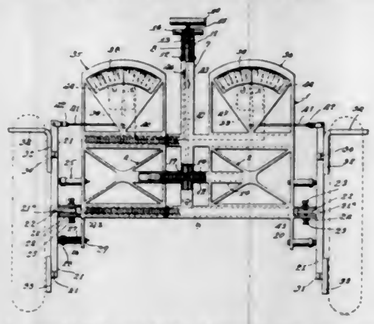
An attachment for a rotary printing press having a blanket cylinder, a plate cylinder and a formation on said blanket cylinder comprising meshing gears between the said cylinders, a gear hub associated with the plate cylinder and carrying the gear companion thereto, said gear companion to the plate cylinder having arcuate slots uniformly separated from each other, adjusting bolts passed through the slots and engaged with the said hub, indicators on the respective gears for facilitating the accurate setting of the cylinders with respect to each other, a latching collar fixed to an axle of the plate cylinder and having a sliding locking bolt, the said gear hub having keeper notches selectively engaged by said locking bolt, means active upon the bolt for urging the same into locking position, an actuator slide having an adjustable finger piece associated with said collar, and adjustable means forming one of the indicators and engaged by certain of the adjusting bolts for minute adjustment purposes.

2,164,853

ALIGNER

Bernard J. Beckwith, Chicago, Ill., assignor to George H. Meiser, Chicago, Ill.

Application May 10, 1938, Serial No. 207,035
2 Claims. (Cl. 33—203)



1. A portable coaster aligner for automobile wheels comprising a framework supported on casters, said framework comprising two laterally relatively movable sub-frames having telescoping portions adapted to hold said frames in alignment in all positions of adjustment, resilient means tending to separate said frames, a lever pivoted intermediate its ends adjacent the outer edge of each sub-frame, resilient means operative between each lever and its associated frame and normally tending to hold said levers parallel with each other and with the median plane of said coaster, a two direction from zero indicator on each sub-frame and operatively connected to its associated lever to indicate angular lever deviation from normal in either direction, a forwardly extending rotatable shaft on one sub-frame and substantially on the median line of said coaster, a handle on said shaft for moving said coaster and operable for rotary movement of said shaft, and a transmission between said shaft and the other sub-frame and constructed to retract said framework when said handle is rotated.

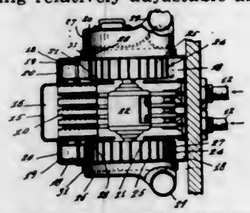
2,164,854

HEATER

Earl C. Booth and Edmund Ludlow, Columbus, and Ralph C. Root, Indianapolis, Ind., assignors to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana

Application November 15, 1937, Serial No. 174,586
10 Claims. (Cl. 257—137)

8. In a heater of the circulating fluid type, an air-heating core, a rotatable blower element for moving air through said core, and means having main and auxiliary discharge openings for collecting the air discharged from said blower element, said means including a member surrounding said blower element and dividing the air discharged therefrom between said main and auxiliary discharge openings, said member and blower element being relatively adjustable axially of the



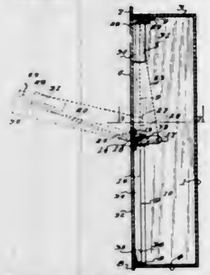
blower element to regulate the division of air between said main and auxiliary openings.

2,164,855

MAIL BOX

Saulia O. Florence, Chicago, Ill., assignor to Florence Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application August 28, 1937, Serial No. 161,487
2 Claims. (Cl. 232—21)



1. In a mail box, a body portion open at the front and including a top portion formed with a lock-bolt perforation, partitions in said body portion recessed along their top edges, tenant doors for closing the lower part of said body portion, a master door for closing the upper part of said body portion, the upper edges of said tenant doors interfitting with the lower edge of said master door, a hinge rod connecting said door edges, an arched bar having its ends secured to said master door and its intermediate portion received in the recessed portions of said partitions in one position of said master door, and a lock base plate connecting said door to said arched bar, said lock base plate being formed with a perforation for alignment with the lock-bolt perforation in said body top portion in the closed position of said master door.

2,164,856

PIPE CLEANER

Maurice Francis Lyons and Brand Kaplan, Cincinnati, Ohio, assignors, by direct and mesne assignments, of one-half to Murray R. Haddon, Chicago, Ill.

Application March 18, 1937, Serial No. 131,744
8 Claims. (Cl. 131—13)



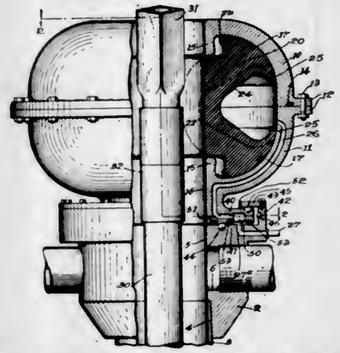
1. A pipe cleaner comprising an elongated strand, an enlargement of yielding material surrounding the strand adjacent to an end thereof, and a lamination of woven fabric casing the strand and the enlargement, the lamination being so constructed and applied as to allow disjoinder of the enlargement on the strand from the remaining portion of the strand.

2,164,857

ROTATABLE PACKER

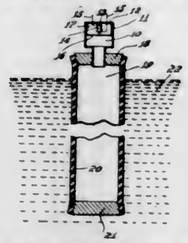
John W. MacClatchie, Los Angeles, Calif., assignor to MacClatchie Manufacturing Company of California, Compton, Calif., a corporation of California

Application December 28, 1936, Serial No. 117,857
5 Claims. (Cl. 255—1)



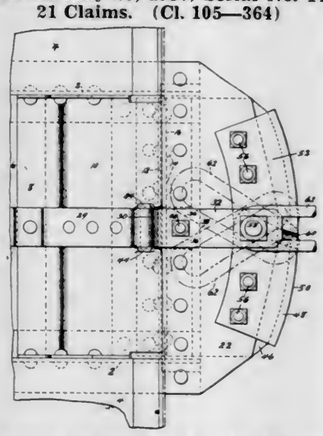
1. In combination, a well casing adapted to receive a well string for reciprocation and/or rotation therein, a structure mounted on said casing and having an opening therethrough in substantial continuation of the well casing bore, said structure forming at its upper side an annular supporting base, a housing for a packer having a supporting flange around its lower side, said annular base having bearing surfaces engaging opposite faces of said housing flange for securing the flange and the housing against displacement axially but permitting free rotation of the housing on the base around the casing bore as an axis there being anti-frictional bearings at each of said bearing surfaces, said housing forming an enlarged diameter continuation of the casing bore, an annular packer of the pressure fluid expansible type mounted and confined in said housing against axial displacement and having a bore therethrough in continuation of the casing bore, said packer being adapted to surround a well string extending therethrough and in its non-sealing and inactive position being completely disengaged and free from a well string whereby said packer remains stationary during rotation of the well string, said packer being projectible by pressure fluid into a position engaged with and sealing completely around the well string whereby rotation of the latter rotates said packer and housing as a unit, with the packer in sealing engagement with the well string, a pressure fluid supply port in the upper face of said supporting base, an annular pressure fluid chamber around said flange opening through the lower face thereof, in alignment with said supply port whereby said port is in constant communication with said chamber as the housing is rotated on said base, and said housing being provided with a pressure fluid passage from said annular chamber to the expansible packer mounted in said housing for supplying pressure fluid to said packer to project the same into sealing engagement with the well string.

2,164,858
SUBMARINE SOUND SYSTEM
Jarold R. West, New York, N. Y., assignor to Roger Williams, New York, N. Y.
Application June 29, 1936, Serial No. 87,867
2 Claims. (Cl. 177—386)



2. A device for transferring voice frequencies from air into water, including an elongated tube of elastic material, means for closing both ends of the tube, one of said closure means comprising one side of an imperforate acoustical diaphragm, means for vibrating said diaphragm at voice frequencies and means for keeping substantially normal atmospheric pressure upon the other side of said diaphragm, whereby differing pressures of air can exist upon opposite sides of said diaphragm.

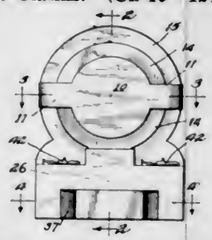
2,164,859
MINE CAR BUMPER
Victor Willoughby, Ridgewood, N. J., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application May 20, 1937, Serial No. 143,681
21 Claims. (Cl. 105—364)



1. In a mine or similar rail car, the combination of a metal bumper, a drawbar located at least in part above the bumper and formed with upper and lower spaced jaws adapted to receive a coupling link therebetween, a coupling link between said jaws, said bumper comprising an upright buffing face and an upper flange directed toward the car body and overlying the lower jaw of said drawbar, said upper flange being formed with an upwardly extending, rounded projection normally supporting the coupling link in spaced relation to the bumper during application of draft forces to the link.

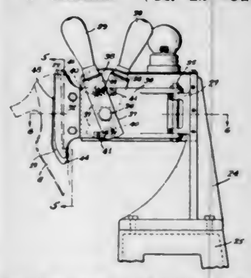
2. In a mine or similar rail car, the combination of a metal bumper, a drawbar located at least in part above the bumper and formed with spaced jaws to receive a coupling link therebetween, a coupling link between said jaws, said bumper comprising an upright buffing face and an upper flange directed toward the car body, said upper flange being formed with an upwardly extending, rounded projection normally supporting the coupling link in spaced relation to the bumper during application of draft forces to the link, said projection being of such a length and arranged at an angle to the vertical center plane of the bumper in such a position that said link will be deflected thereby to one side thereof upon cessation of the application of the draft forces.

2,164,860
FOLDING DISPLAY
Henry Ziemmerman, Chicago, Ill., assignor to Chicago Cardboard Company, Chicago, Ill., a corporation of Illinois
Application May 2, 1938, Serial No. 205,419
9 Claims. (Cl. 40—124.1)



1. A folding display of sheet material cut, scored and folded to provide a front plate and a succession of curved segments spaced successively from and at the rear above and below the front plate and each other to represent a succession of dials graduated in size when viewed from the front thereof.

2,164,861
PUMP TOP RE-FORMING MACHINE
Adolf H. Altvater, University City, Mo., assignor to Milton L. Dodge, Newburyport, Mass.
Application November 21, 1933, Serial No. 699,028
5 Claims. (Cl. 12—51)

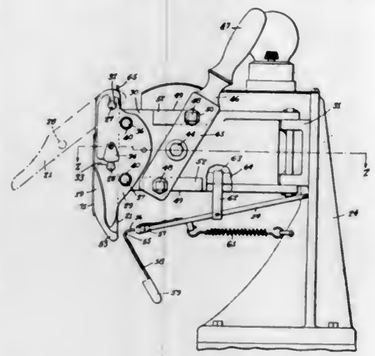


1. In a re-forming machine, the combination with an inside shaping form and arms movable toward and away from said inside form, of separate outside shaping forms movably carried by said arms, and means for yieldingly holding said outside shaping forms in predetermined angular relation to said arms.

2,164,862
PUMP TOP RE-FORMING MACHINE
Adolf H. Altvater, University City, Mo., assignor to Milton L. Dodge, Newburyport, Mass.
Application May 22, 1934, Serial No. 726,920
25 Claims. (Cl. 12—51)

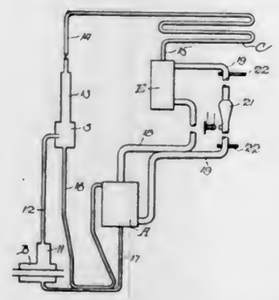
1. In a re-forming machine, the combination

with an inside form and outside forms to press the skirtings along the top edge on opposite sides of a shoe against the shaping contour of the in-



side form, of means for holding the vamp of the shoe taut generally along the longitudinal center line thereof during the pressing operation.

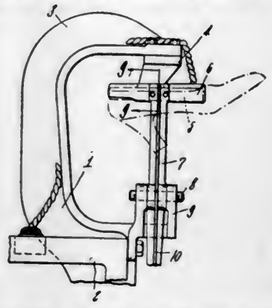
2,164,863
FLUID CIRCULATOR
Earl Babcock, Evanston, Ill., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application October 10, 1935, Serial No. 44,368
23 Claims. (Cl. 62—119.5)



1. In a hermetically sealed system having a fluid therein, an arrangement for imparting motion to the fluid comprising electro-magnetic means for imparting vibratory movement to a part of said system and means within said part adapted to pass through the fluid with a vibratory motion as a result of the vibratory movement imparted to said part by said electro-magnetic means to impart directional movement to the fluid.

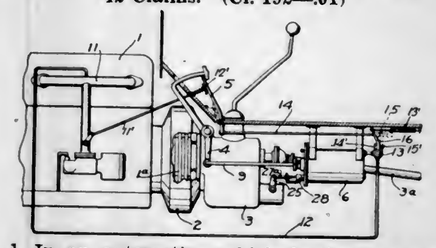
2,164,864
MACHINE FOR SHAPING SHOE UPPERS
George Harry Dove and Robert Paddy Swain, Leicester, England, assignors to Milton L. Dodge, Newburyport, Mass.
Application February 24, 1936, Serial No. 65,217
In Great Britain June 28, 1935
22 Claims. (Cl. 12—51)

1. In combination with a shoe form comprising sections extending lengthwise of the form and adjustable toward and from each other, of means for pressing over a substantial area a shoe upper placed on said form against the surface



of said form to conform said upper area to the surface contour of said form.

2,164,865
CLUTCH CONTROL MECHANISM
Francis P. Keiper, Washington, D. C., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application November 2, 1931, Serial No. 572,671
42 Claims. (Cl. 192—.01)

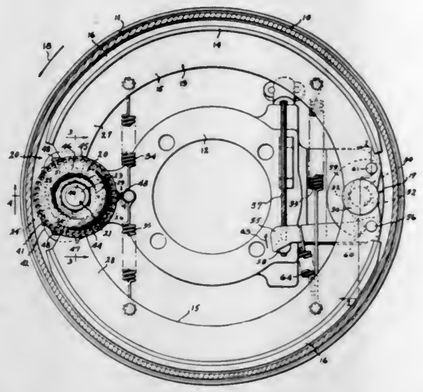


1. In an automotive vehicle having a driving engine and a transmission, a friction clutch interposed between said transmission and engine, a fluid pressure power actuator for operating said clutch, means for initiating the clutch engaging and disengaging operations of said actuator, and other means associated with said driving engine and said transmission operable to vary the operation of the actuator in accordance with the relative modes of operation of said driving engine and transmission in order to vary the rate of engagement of the clutch.

2,164,866
BRAKE MECHANISM
Carl F. Baisch, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application July 6, 1937, Serial No. 152,249
9 Claims. (Cl. 188—79.5)

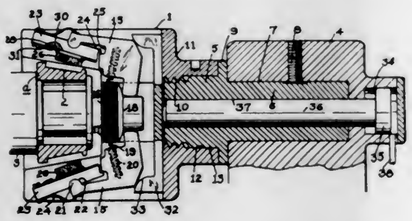
1. In brake mechanism, a revoluble brake drum, a backing plate for the drum fixed against rotation, brake friction means supported on the backing plate within the drum for shifting movement circumferentially of the drum and having spaced ends, an adjustment device for the friction means including a member rotatably supported on the backing plate between the ends of the friction means and mounted for shifting movement with the friction means, said member having diametrically opposed cam surfaces respectively engageable with the ends of the friction means and effective upon rotation of the

member in one direction to move the ends of the friction means outwardly relative to the drum, means accessible from a point exteriorly of the



drum for rotating said member, and means for indicating predetermined increments of adjustment of the friction means by said member.

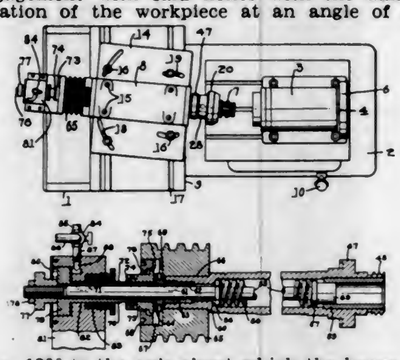
2,164,867
HONE
Harold L. Blood, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application March 11, 1936, Serial No. 68,289
8 Claims. (Cl. 51—161)



1. In a honing device, an arbor having a radial slot therein, a lever mounted in said slot and having a pivotal movement relative to said arbor about one end of said lever, said lever being free of positive attachment to the arbor, a honing member carried by said lever, and fluid pressure actuated means axially slidable of the arbor and engageable with, but free of positive attachment to the lever for shifting said lever within the slot.

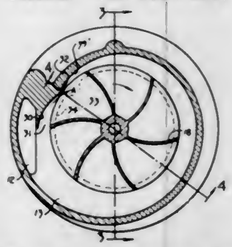
2,164,868
METHOD OF AND APPARATUS FOR HONING WORKPIECES
Harold L. Blood, Worcester, Mass., assignor to The Heald Machine Company, Worcester, Mass., a corporation of Massachusetts
Application July 24, 1936, Serial No. 92,396
10 Claims. (Cl. 51—105)

1. In the method of honing workpieces, the steps which involve providing a plurality of individual hones uniformly spaced from a predetermined axis and rotating a workpiece while in engagement with said hones with the axis of rotation of the workpiece at an angle of less



than 180° to the axis about which the hones are positioned.

2,164,869
PUMP
Francis E. Brady, Jr., Connersville, Ind.
Application March 2, 1938, Serial No. 193,416
7 Claims. (Cl. 103—113)

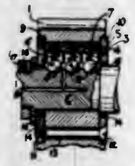


1. A centrifugal pump comprising a casing providing an inlet passage, an impeller chamber and a peripheral outlet port, an impeller having a series of blades operating in said chamber, said casing having a wall converging toward the impeller periphery from a point adjacent the end of the outlet port and having an inwardly directed terminal surface directing a liquid stream a substantial distance inwardly into the space between adjacent blades and in the general direction of rotation of the impeller, the wall of the casing which defines the outer part of the impeller chamber just beyond said terminal surface in the direction of rotation being located a substantial distance outwardly from the periphery of the impeller so that liquid and gas will be forced outwardly of the impeller periphery from said space when said space receives said stream.

2,164,870
TORQUE LIMITING DEVICE
Albert Bernhard De Salardi, Wilkinsburg, Pa., assignor, by mesne assignments, of one-half to Walter E. Volkwein, Pittsburgh, Pa.
Application October 8, 1936, Serial No. 104,656
4 Claims. (Cl. 64—29)

1. Torque limiting device comprising a driving and a driven member coaxially rotatably mounted, guide means in fixed angular relationship to one of said members, a number of locking elements cooperating therewith for radial movement between non-locking and proper locking positions, in fixed angular relationship to the other member the same number of seats located and shaped for simultaneous coaction with finite

surface areas of all of said locking elements, resilient means urging the latter to occupy said seats,

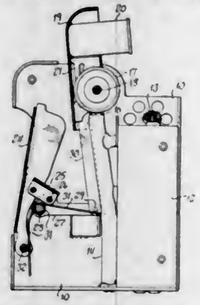


and thrust resisting means preventing relative axial displacement of said locking elements and seats.

2,164,871
CEMENT COMPOSITION FOR MASON'S MORTAR
Adelbert C. Eichenlaub, Dearborn, Mich., assignor to Peerless Cement Corporation, Detroit, Mich., a corporation of Michigan
No Drawing. Application May 7, 1937, Serial No. 141,354
15 Claims. (Cl. 106—24)

6. A cement composition comprising a dry granular mixture of approximately 47% ground Portland cement clinker, approximately 3% gypsum, from 30 to 47% precipitated calcium carbonate and from 20 to 3% clay.

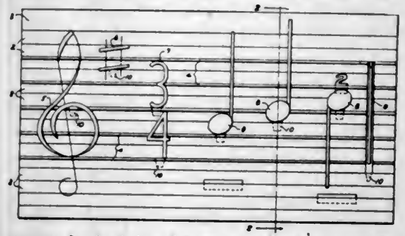
2,164,872
POCKET LIGHTER
William E. Evans, Waterbury, Conn., assignor to The Waterbury Lock and Specialty Company, Milford, Conn., a corporation of Connecticut
Application March 17, 1938, Serial No. 196,337
3 Claims. (Cl. 67—7.1)



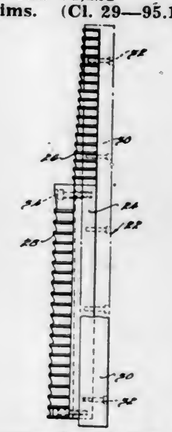
2. A lighter comprising in combination: a casing, a wick-chamber, a wick in said chamber, a flint-tube outside of said wick-chamber, a flint in the upper end of said flint-tube, a spring on which said flint rests, a sparking-wheel, a snuffer in which the sparking-wheel is mounted, an actuating-link pivotally connected with the snuffer, a coupling link pivotally connected with the lower end of the actuating-link, an operating-lever, a toggle-coupling link connected with the operating-lever and said link, and a spring bearing upon the lower end of and tending to raise the actuating-link and move the operating-lever to the normal position.

2,164,873
MUSIC CHART
Hazel Ann Everson, Louisville, Ky.
Application January 5, 1937, Serial No. 119,088
1 Claim. (Cl. 84—471)

In a music chart employing adjustable music characters having integral tab means extending from the body of the character, a backing, longitudinal strips having appreciable stiffness and mounted in vertically spaced, overlapping relation upon the backing to provide a secure recess for holding the tab means of the music characters between the strips, and spaced longitudinal staff lines located upon the exposed upper surfaces of certain of said strips with intermediate unmarked strips between adjacent staff line strips whereby an accurate music notation may be provided by the insertion of the tab means of the music characters between overlapping strips and for holding the music characters at the desired location with respect to the staff lines.



2,164,874
BROACHING CUTTER FOR STUB BALL JOINT
William A. Hart, Detroit, Mich., assignor to Colonial Broach Company, a corporation of Michigan
Original application September 10, 1931, Serial No. 562,012. Divided and this application April 13, 1936, Serial No. 74,121
3 Claims. (Cl. 29—95.1)

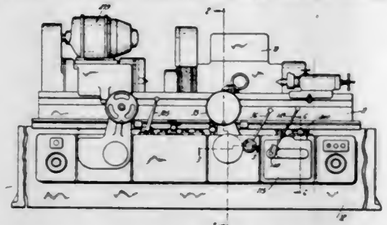


1. A broaching cutter for slotting and finishing a hole in the end of a work piece including, a longitudinally extending element having a plurality of slot cutting teeth followed by a plurality of hole dressing teeth the latter of which are supported on a base of less width than the width of said slot cutting teeth, said base being adapted to pass through the slot formed by said slot cutting teeth and said hole dressing teeth being positioned on said base in axially offset relation to said slot cutting teeth.

2,164,875
GRINDING MACHINE
Charles Herfurth, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application January 31, 1938, Serial No. 187,815
16 Claims. (Cl. 51—95)

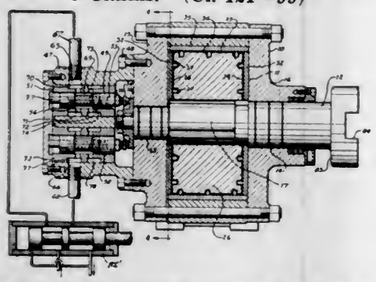
1. In a grinding machine having a bed, a grind-

ing wheel support, and a work support, the combination of means for effecting relative movement between said supports including a screw and nut, one of which is attached to the bed and the other to the movable support, a first power operable member for effecting bodily movement of said screw and nut in one direction, a second power operable member for effecting power movement



of the screw and nut in a second direction, means to selectively cause actuation of either of said members, a manually operable means and a power operable means for effecting relative rotation between the screw and nut, and means to selectively connect either of said last named means to effect said relative rotation during power movement of said support by either of said first two named members.

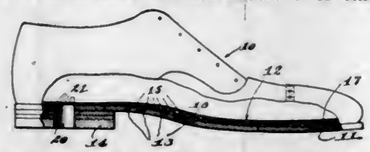
2,164,876
HYDRAULIC VANE MOTOR
Herman Horlacher, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application July 6, 1937, Serial No. 152,200
6 Claims. (Cl. 121—99)



1. A hydraulic motor having a housing, a plurality of chambers circumferentially arranged in said housing, a vane movable in each of said chambers, means connecting said vanes to a common rotor, a first channel for supplying fluid under pressure to said chambers to apply an actuating force to the corresponding side of each of said vanes, a second channel means for conveying exhaust fluid from said chambers, a throttle valve in each of said channels, resiliently operable means for normally urging said valves to an open position, and cam means carried by said rotor for positively moving said valves in a direction to throttle the flow in both of said channels.

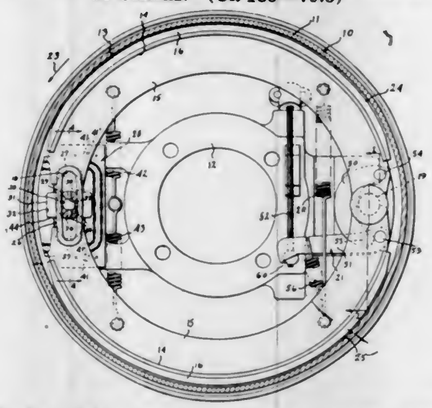
2,164,877
AIR-CONDITIONED SHOE
Archile J. Le Clair, Plaistow, N. H.
Application August 11, 1938, Serial No. 224,238
4 Claims. (Cl. 36—3)

3. An improved air-conditioned shoe comprising in combination, an upper, an insole, an outer sole and heel member, a transversely corrugated shank stiffener member located between said insole and said outer sole, a vent located in said outer sole adjacent said shank member, a vent located in said insole adjacent said shank member, a vent located through said heel member, a vent located in said insole over said heel



vent, a corrugated filler member located between the front toe portion of said shoe and the forward end of said shank member separating said insole from said outer sole, flutings located in the upper surface of said insole, vents located in the forward portion of said insole communicating with said flutings.

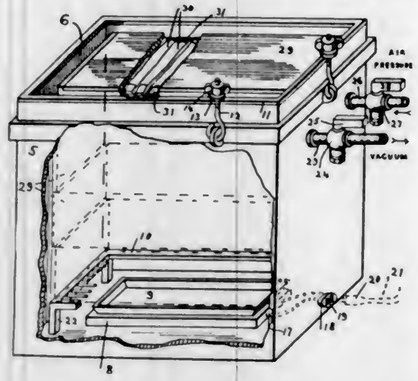
2,164,878
BRAKE CONSTRUCTION
Frank L. Main, Birmingham, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application June 28, 1937, Serial No. 150,869
16 Claims. (Cl. 188—79.5)



8. In brake mechanism, a revoluble brake drum, a backing plate for the drum fixed against rotation, brake friction means supported on the backing plate within the drum and having spaced ends, a wedge extending axially of the drum between the ends of the friction means and having the sides adjacent said ends inclined toward the axis of the wedge to effect outward movement of said ends of the friction means upon axial movement of the wedge in one direction, a nonrotatable member supported on the backing plate for movement axially of the drum and extending radially through the wedge, and an adjusting screw extending through the wedge and threadedly engaging said member.

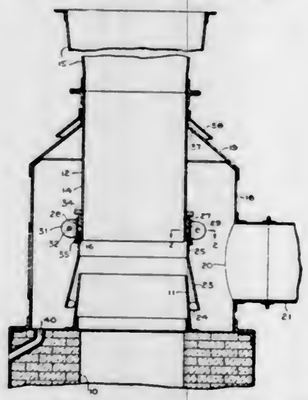
2,164,879
PROCESS OF TREATING MATERIAL
Haydn Mason, New Hartford, N. Y.
Application May 4, 1936, Serial No. 77,666
13 Claims. (Cl. 131—55)

3. The process of humidifying cigars and the like which consists in placing the materials to be treated in a tight receptacle, providing and evaporating water within the receptacle, evacuating most of the air from the receptacle chamber, completing the evaporation of said water, then supplying air to the chamber until appreciably more than atmospheric pressure has been obtained, cutting off further air pressure and re-



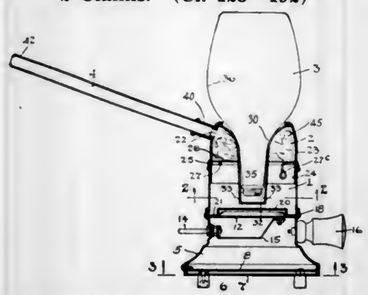
taining the materials in the chamber subject to the pressure and moisture already supplied for several hours whereby most of the moisture is driven into and absorbed by the materials in the receptacle.

2,164,880
DRAFT PRODUCING APPARATUS
Gustav A. Merkt, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application October 25, 1937, Serial No. 170,901
9 Claims. (Cl. 230—96)



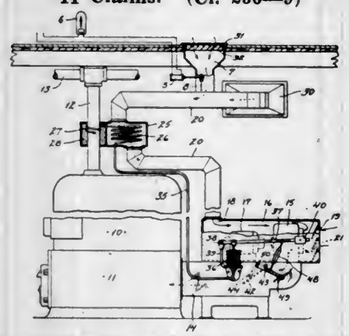
1. Draft producing apparatus comprising a nozzle for hot gases, a stack in alignment with the nozzle, an air nozzle surrounding the gas nozzle in spaced relation thereto to direct a jet of air into the adjacent end of the stack and thus entrain the hot gases from the gas nozzle and discharge them through the stack, a casing forming a chamber which communicates with the air nozzle, the chamber surrounding the adjacent inlet portion of the stack and overlapping the outer surface thereof for a substantial distance in the direction of flow through the stack, and means to deliver air under pressure to the chamber and produce a flow of air therethrough in cooling contact with the outer surface of the said adjacent inlet portion of the stack.

2,164,881
VAPORIZER
Louis B. Meyerson, Greenwich, Ohio
Application November 19, 1937, Serial No. 175,386
2 Claims. (Cl. 128—192)



1. A vaporizer comprising, in combination, a base, a boiler thereabove, an inner wall defining a funnel-like receptacle extending to near the bottom of the boiler and having a restricted orifice into said boiler, said orifice serving to establish a constant water level in said boiler, a medicament holder within said boiler above said water level and contained entirely within said boiler, a discharge opening near the top of said boiler, and a bottle adapted to be received inverted in said funnel-like receptacle, all of said elements being substantially within the horizontal area defined by said base.

2,164,882
METHOD AND MEANS FOR CONTROLLING THE OPERATION OF A FURNACE
James C. Miles, Cleveland Heights, Ohio
Application December 2, 1935, Serial No. 52,488
11 Claims. (Cl. 236—9)

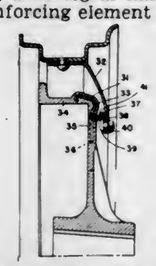


1. In combination, a furnace, a heat conveying medium heated thereby, a conduit leading from the furnace for supplying outside air to support combustion within the furnace, a damper within the conduit, means for forcing a current of outside air under pressure into the conduit, said means operating to hold the damper partially open at all times, and means responsive to changes in temperature of the outside air and also of the heating medium for operating the damper.

2,164,883
WHEEL
George E. Moore, Dearborn, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application May 13, 1935, Serial No. 21,240
15 Claims. (Cl. 301—6)

1. In a wheel, a brake drum comprising an

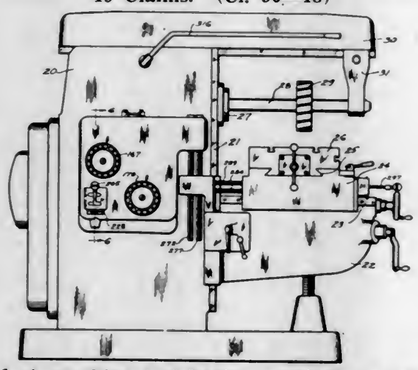
element having an integral flange and web portion, and a reinforcing element embedded in said



first mentioned element, and a wheel body mounted on said reinforcing element.

2,164,884
OPERATING CONTROL MECHANISM FOR MILLING MACHINES

Lester F. Nenninger, Cincinnati, and Erwin G. Roehm, Norwood, Ohio, assignors to The Cincinnati Milling Machine Company, Cincinnati, Ohio, a corporation of Ohio
Application May 31, 1934, Serial No. 728,322
19 Claims. (Cl. 90—18)



1. A machine tool having a spindle, a prime mover, a variable speed transmission coupled to the spindle, means for coupling the transmission to the prime mover, a branch train continuously actuated by the prime mover, a power rate change mechanism for said transmission, means to reversely connect said mechanism to the branch train for increasing or decreasing the rate of rotation of the spindle, a second train connected to the variable speed transmission, and means to connect the branch train to said second train when said coupling means is disconnected for effecting rotation of the transmission during operation of the power rate change mechanism.

2,164,885
MANUFACTURE OF RUBBER CAPS

Paul A. Raiche, North Providence, R. I.
Application May 11, 1936, Serial No. 79,027
7 Claims. (Cl. 221—60)



1. In combination, a container having a flat portion provided with an outlet nozzle, said nozzle being undercut, a cap of flexible rubber material detachably seated on said nozzle and having portions extending within the undercut and in engagement with said flat portion, said cap having a lifting tab extending laterally and positioned below said portions, and means for locking said cap to the container.

2,164,886
WATER TUBE FOR ROCK DRILLS

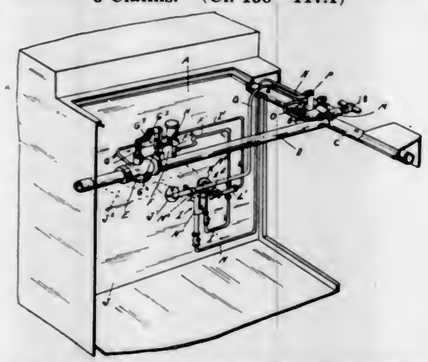
John E. Renfer, Cleveland Heights, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a corporation of Ohio
Application December 17, 1937, Serial No. 180,311
8 Claims. (Cl. 121—10)



4. In a rock drill the combination of a cylinder, of a hammer reciprocating therein, of a front housing and a hollow drill steel shank slidable within said housing, and a cleansing fluid conveying tube extending through said cylinder and hammer, said tube being made of metal and formed with a flexible rubber terminal extending partway into said drill steel shank.

2,164,887
SAFETY CONTROL AND IGNITION MEANS FOR MULTIPLE GAS BURNERS

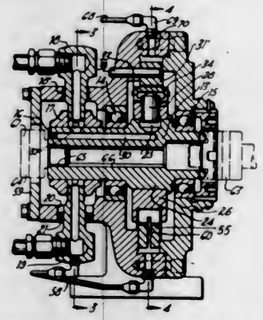
Earl W. Roberts and Thomas L. Ferrall, Detroit, Mich., assignors, by mesne assignments, to The Bryant Heater Company, Cleveland, Ohio, a corporation of Ohio
Application February 25, 1935, Serial No. 8,178
3 Claims. (Cl. 158—117.1)



1. In a gas cooking range, the combination with a gas manifold, a gas supply conduit therefor, a plurality of open top burners, and valve controlled means for conducting gas from the manifold to said burners, of a shut-off valve in said supply conduit biased to automatically close, a thermal motor operatively associated with said shut-off valve to open the same, a pilot burner located to operate said thermal motor and to maintain said shut-off valve in open position whenever said pilot burner is burning, flame propagating means extending from the respective open top burners to said pilot burner, an oven burner, a pilot burner associated with said oven burner, valve controlled means for conducting gas from said manifold to said oven burner, flame propagating means between the last mentioned pilot burner and oven burner, a gas supply connection to said second mentioned pilot burner from said gas supply conduit on the supply side of said shut-off valve, a conduit from the last mentioned gas supply connection to said first mentioned pilot burner, a valve in said last mentioned conduit, and a thermal motor operatively associated with said last mentioned valve and said second mentioned pilot burner to open and maintain open said last mentioned valve when said last mentioned pilot burner is burning and to close said valve when said pilot burner is extinguished.

2,164,888
VARIABLE DELIVERY PUMP

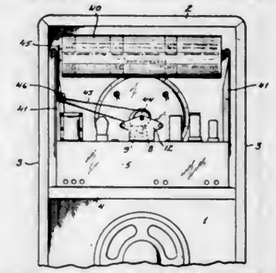
Bernard Sassen, Hans Ernst, and Frederick S. Haas, Cincinnati, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application February 24, 1936, Serial No. 65,322
3 Claims. (Cl. 103—161)



2. An hydraulic mechanism of the character described, including a supporting casing, a rotor journaled in the casing including multiple radial cylinders and pistons movable therein, a carrier member movable with the rotor, an adjustable ring pivoted to the casing in circumscribing relation to the rotor and associate parts, means for variably displacing the ring with respect to the rotor to vary the action of the pistons in the cylinders, and floating rocker shoe bearings corresponding in number to the pistons loosely carried by the carrier for rotation therewith and interposed between the respective pistons and the inner face of the ring for sliding movement with respect to the ring, said shoes being laterally offset with respect to the axes of the respective pistons in the direction of rotation of the rotor, means for supplying lubricant to flood the space between the rotor and ring whereby on rotation of the parts the leading edges of the rocker shoes will be deflected proportionate to the load to counteract the piston pressure and maintain a proper oil film between the shoes and ring under said varying load conditions, said rotor having a laterally projecting portion, a floating distributor head mounted on said laterally projecting portion, the rotor having grooves affording communication between the respective cylinders and the distributor head, the casing having a portion circumscribing the head in spaced relation thereto, yieldable means for maintaining an oil seal between the casing and floating head, and means for effecting an hydrostatic balance of the floating distributor head whereby deflection of the rotor by any unbalanced pressure conditions normally created between rotor distributor head and casing during operation of the device is counteracted.

2,164,889
RADIO RECEIVING APPARATUS

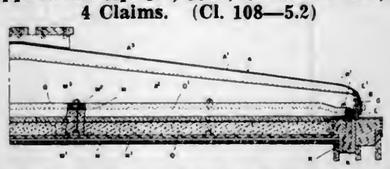
Thoyer Sorenson, Cleveland, Ohio, assignor of one-half to John Y. Socotch, Cleveland, Ohio
Application December 1, 1936, Serial No. 113,651
1 Claim. (Cl. 116—124.1)



In a radio receiving set, a housing having an elongated window therein, a drum extending longitudinally of the window and rotatably supported within the housing behind the window, a tuning condenser also supported within the housing and including a rotating member disposed out of the plane of the drum axis, a positive driving connection between the drum and the rearward end of the rotating tuning member, the forward end of the rotating tuning member having a portion thereof projecting through the housing and having a pointer thereon, a manually operable member, and means for operatively connecting the manually operable member to the rotating tuning member.

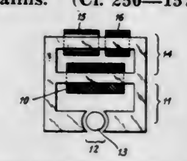
2,164,890
INSULATED ROOF

William D. Thompson, Birmingham, Mich., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application April 5, 1937, Serial No. 135,173
4 Claims. (Cl. 108—5.2)



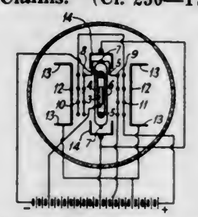
1. In a car having metallic side plates and a roof removably supported thereon, of angle brackets rigidly attached to and projecting inward from said side plates, metallic channel bars secured to said angle brackets and extending transversely of the car between the opposite side plates thereof, wooden strips secured in the channels of said bars and extending below the same, a ceiling secured to the underside of said strips, a layer of insulating material extending between adjacent strips and marginally secured thereto, and a second layer of insulating material extending over said first layer and said channel bars and clamped to the latter.

2,164,891
ELECTROMAGNETIC CATHODE RAY DEFLECTION APPARATUS
Robert Andrieu, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application August 11, 1936, Serial No. 95,340
In Germany August 20, 1935
3 Claims. (Cl. 250—157)



2. In a cathode ray tube system, a cathode ray tube, means for developing an electron stream within said tube, a core member, a coil wound about an arm of said core member, said coil being adapted to be energized by an alternating wave having a D. C. component, a closed yoke member joined to the aforementioned core arm member, a short-circuiting winding mounted on said yoke member, and a second yoke member joined to the core arm containing an air gap through which the electron stream may pass.

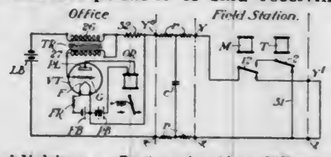
2,164,892
SECONDARY EMISSION TUBE
George Baldwin Banks, Billericay, England, assignor to Radio Corporation of America, a corporation of Delaware
Application February 23, 1939, Serial No. 257,913
In Great Britain February 17, 1938
6 Claims. (Cl. 250—174)



1. An electron discharge device comprising a thermionic cathode, a secondary electron emitter having a high coefficient of secondary electron emission, means for producing a modulated primary electron stream from said cathode to said emitter, a grid-like output anode between said cathode and said emitter and extending across the path of said electron stream to said emitter, and an electron lens grid similar to said output anode mounted between said output anode and said cathode with its conductors and apertures aligned along the path of said electron stream with the corresponding conductors and apertures of said output anode to cooperate with said output anode as part of an electron lens system for directing the electron stream from said cathode through the apertures of said grid-like electrodes to said emitter.

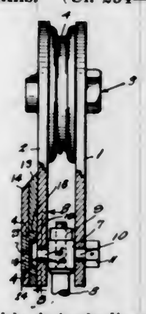
2,164,893
REMOTE CONTROL SYSTEM
George W. Baughman, Edgewood, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 24, 1937, Serial No. 138,794
5 Claims. (Cl. 178—63)

1. In combination with a normally closed line circuit having relatively high electrostatic capacity, a source of unidirectional current included in said line circuit at one end thereof, a transmitting relay at the other end of said line circuit for transmitting code current impulses from said source over the line circuit, a receiving relay at said one end of the line circuit responsive to the individual impulses of said code transmitted over said line circuit and having an operating winding, means associated with said line circuit and independent of said receiving relay



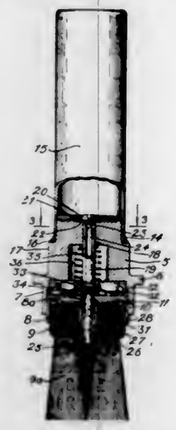
for establishing a first potential difference proportionate to the magnitude of the line current, means also associated with said line circuit for establishing a second potential difference proportionate to the rate of change of said line current, and means for combining said two potential differences and impressing them across said operating winding to thereby enable said receiving relay to respond more accurately to the individual code impulses transmitted over said line circuit.

2,164,894
SNATCH BLOCK
William G. Bentley, Houston, Tex.
Application February 17, 1938, Serial No. 191,122
3 Claims. (Cl. 254—193)



1. In a snatch block including a pair of plates, an axle passing through the plates adjacent one end thereof and a pulley carried by the axle, a hook carrying member having a spindle extending from one side thereof passing through a hole adjacent the other end of one plate, a T-shaped spindle extending from the opposite side of the hook carrying member, the other or second plate having an arcuate-shaped slot adjacent its other end and a circular recess at the inner end of the slot, said slot forming a passage for the T-shaped spindle when the hook carrying member has been moved to a certain position and the head of said T-shaped spindle extending crosswise of the slot in the recess when the carrying member has been moved to another position, and a locking member rotatably supported by the other or second plate in said recess and said locking member having a recess therein receiving the head and a slot opening out from the recess of said locking member forming a passage for the head when the locking member has been turned to a position placing the slot therein in alignment with the slot of the second plate and said locking member locking the T-shaped spindle in the second plate when turned to a position where the slot therein is out of alignment with the slot of the plate.

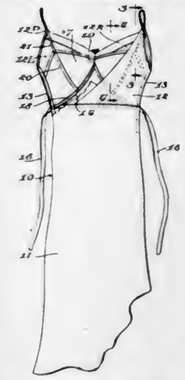
2,164,895
FOUNTAIN STENCIL BRUSH
Alexander Botts, New York, N. Y.
Application August 5, 1937, Serial No. 157,494
7 Claims. (Cl. 15—139)



1. A stencilling device of the class described comprising a body portion, means on the upper end thereof for attaching a fluid reservoir, the lower end of said body having a sleeve forming a cylindrical receptacle therein, a plurality of cylindrical chambers extending inwardly from and along the axis of said receptacle and having progressively decreasing diameters, the innermost of said chambers opening through the upper surface of said body forming a small cylindrical bore extending through said body, a cup shaped cap slidably mounted in the sleeve of said body, a brush head in said cap, said cap and brush head having central passages, a feed tube extending into the passages of said cap and head and detachably connecting with said head, said tube extending through the cylindrical bore of said body, tensional means centrally of the body for supporting said brush head normally in a downwardly projecting position, means limiting the downward movement of said head and feed tube, adjustable means within said body and cooperating with said cup shaped cap for limiting the upward movement of said head, means on said feed tube exposing the same to a source of fluid supplied in said reservoir in the upward movement of said brush head with respect to said body against the action of said tensional means, and the means limiting the downward movement of the head and feed tube comprising an adjustable needle valve threaded in the upper end of the feed tube and having a head of larger diameter than said tube.

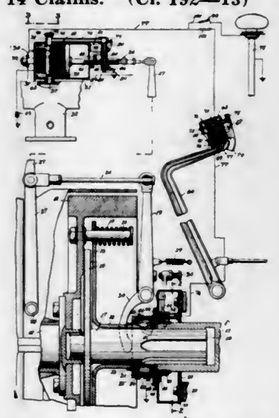
2,164,896
NIGHTGOWN
Marjorie Heaton Brandes, Chicago, Ill.
Application November 17, 1937, Serial No. 174,926
5 Claims. (Cl. 2—73)

1. A nightgown comprising a skirt, a bodice front, a bodice back, a brassière, common side seams joining together the ends of the brassière, bodice front and bodice back, common front seams converging upwardly joining together the lower edges of the bodice front, the lower edges of the brassière and the upper front edge of the skirt, and shoulder strap means connecting the upper edges of the bodice front and back and supporting the upper edges of the brassière, the upper portion of the bodice front extending above and covering, but outwardly free from, the



brassière and of greater vertical fullness than the brassière.

2,164,897
CONTROL MECHANISM FOR MOTOR VEHICLES
Charles A. Brewer, Noroton Heights, Conn., assignor of one-half to Philip J. Kury, Arverne, N. Y.
Application March 16, 1935, Serial No. 11,390
14 Claims. (Cl. 192—13)

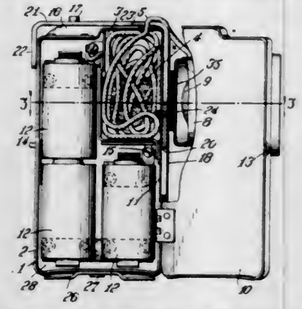


1. In an automotive vehicle, a drive shaft, a driven shaft, a clutch for drivably connecting said shafts, a power device connected to said clutch capable of releasing the same, a control device including valve means for the power device to cause the latter to function to release the clutch, and electric switch means responsive to relative movement of said shafts for controlling the operation of said valve means.

2,164,898
ELECTRIC LANTERN
Le Roy O. Brown, Chicago, Ill., assignor to Justrite Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application January 29, 1938, Serial No. 187,592
9 Claims. (Cl. 240—60)

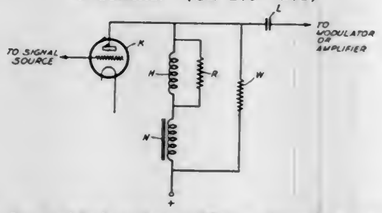
1. An electric lantern comprising a battery casing having a space to receive a lamp cord and a head band, a lamp housing detachably mount-

ed on said casing, a plate operatively connected with said lamp housing and equipped with hinged wing portions one of which is permanently connected with one end of said band and the other of which is detachably connectible with the other end of said band when the latter is withdrawn from the casing, cooperating means on said wings and casing for effecting detachable mounting of said housing on said casing, a switch on the casing, said cord permanently connected at its ends



with the lamp and with the batteries and switch, there being openings in the casing through which said cord and said band pass and permitting withdrawal of said band and cord from said casing to permit spacing of said carrier from said casing, said wings and plate co-operating to conform themselves substantially to the forehead under the influence of tension on said band when attached to both wings and disposed about the head.

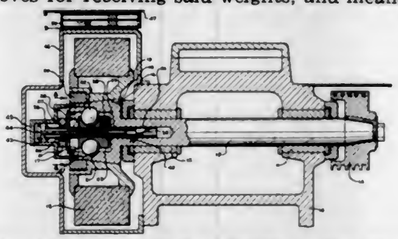
2,164,899
WIDE BAND AMPLIFIER
Werner Buschbeck, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application October 8, 1936, Serial No. 104,633
In Germany October 22, 1935
8 Claims. (Cl. 179—171)



1. In a wide band amplifying circuit, a coupling circuit comprising a series electrical circuit consisting of a radio frequency choke coil and an audio frequency choke, a resistance connected in parallel to said radio frequency choke, and a resistance joined in parallel with said series circuit.

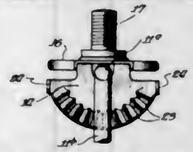
2,164,900
DYNAMIC BALANCER FOR MACHINE TOOLS
John C. Campbell, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application August 12, 1937, Serial No. 158,731
9 Claims. (Cl. 51—169)

1. In a grinding machine having a spindle and a grinding wheel detachably connected thereto, the combination of means for dynamically balancing the assembled wheel and spindle, including a pair of balancing weights, an internal annular groove in the spindle forming a raceway for said weights, a cage having peripheral spiral grooves for receiving said weights, and means to



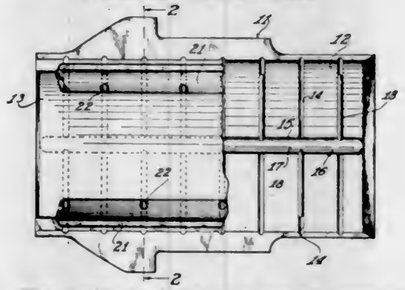
axially shift said cage with respect to said spindle and during rotation thereof to positively change the angular relation between said weights and thereby the counterbalancing effect thereof.

2,164,901
LAMP SHADE MOUNTING MEANS
Paul Chilo, Chicago, Ill.
Application March 12, 1938, Serial No. 195,456
8 Claims. (Cl. 240—148)



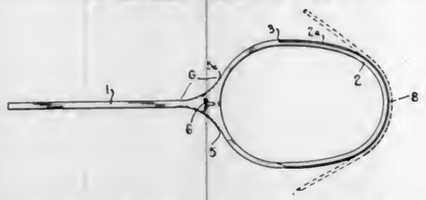
1. In a shade support for lamps, the combination of supporting means including a cross bar and an arm at each end thereof, holding means of spring material swingably mounted on said cross bar between said arms and having arms initially spaced farther apart than the first named arms and adapted to coengage with said first named arms, said holding means including a plate portion provided with a slot in which said cross bar is disposed, and a shade mounting plate disposed over said cross bar and having its edges turned against the bottom of said plate portion.

2,164,902
METHOD OF MAKING JOURNAL BEARINGS
Gilbert R. Coleman, Cheektowaga, N. Y.
Original application October 19, 1936, Serial No. 106,458. Divided and this application May 29, 1937, Serial No. 145,418
5 Claims. (Cl. 29—149.5)



1. The method of forming an oil circulating passageway through a journal bearing, comprising cutting a groove in the lower concave surface of the main body portion of the bearing, positioning a closed hollow tube of a material which is impervious to the action of the oil in said groove, tinning said concave surface, casting a lining portion onto said tinned concave surface over said tube, and drilling apertures through said lining portion into said tube.

2,164,903
TENNIS RACKET
José Luis Consiglio, New York, N. Y.
Application June 19, 1936, Serial No. 86,153
6 Claims. (Cl. 273—73)



1. A tennis racket comprising a frame having a handle which is integral with a head portion, said head portion being closed and having its outer end comprising bent and overlapping members, the outer side wall of one of said members having a notch in which the end of the other of said members is located, a first reinforcing member which abuts a portion of the outer side wall of said head, said outer side wall of the head having shoulders against which the ends of said first reinforcing member abut, and a second reinforcing member which abuts the outer side wall of the first reinforcing member and which also abuts the side walls of the handle.

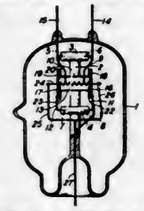
2,164,904
INSULATED WIRE AND METHOD OF MAKING SAME
William E. Cook, West New Brighton, N. Y.
Application November 22, 1935, Serial No. 51,009
12 Claims. (Cl. 174—121)



1. An insulated wire consisting of a conductor wire and an insulating cover therefor, embodying therein an inner stratum of an asphaltum compound in continuous contact with, and closely adherent to, said conductor wire, and an inclosing body of fibrous material having its inner part combined with said asphaltum compound stratum, said fibrous body being impregnated with an asphaltum compound, whereby the greatest density of the asphaltum compound will be in said stratum about the wire.

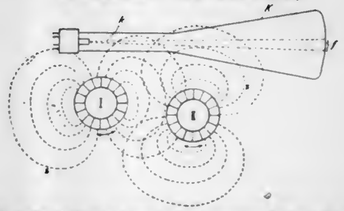
2,164,905
ELECTRON DISCHARGE TUBE
André Gabriel Clavier, Paris, France, assignor to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application March 24, 1936, Serial No. 70,557
In France April 29, 1935
4 Claims. (Cl. 250—27.5)

1. An electron discharge device comprising an enclosing vessel a cathode within said vessel, a grid encompassing said cathode, disc members at the ends of said grid and connected thereto, supporting means for said disc members mounted within said enclosing vessel, a reflecting electrode surrounding said grid, and leading-in conductors



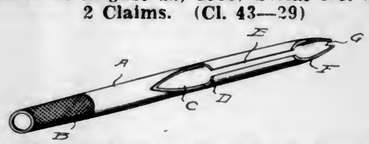
for said grid separate from and spaced from said supporting means.

2,164,906
TELEVISION APPARATUS
Peter Deserno and Maximilian Messner, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application July 7, 1937, Serial No. 152,337
In Germany July 7, 1936
3 Claims. (Cl. 178—7.5)



1. A television apparatus comprising a cathode-ray tube, a source of alternating current for said tube including a mains-connecting part, two separately rotatable ring type transformers in said mains-connecting part so adjusted by rotating them mutually to balance their stray fields and also to compensate for other such fields.

2,164,907
FISHHOOK DISGORGING DEVICE
Arthur Brantley Falkner, Nashville, Tenn.
Application August 22, 1938, Serial No. 226,198
2 Claims. (Cl. 43—29)

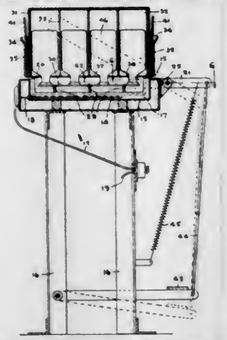


1. A fish hook disgorging or detaching device, comprising a tube or barrel having an intermediate line guiding portion, a slot contiguous to said guiding portion to receive the line, and a tapered outer end or terminal, said taper of the outer end extending downwardly.

2,164,908
MACHINE FOR APPLYING FILMS TO POURING ORIFICES OF BOTTLE CONTAINERS
Robert E. Ford, Minneapolis, Minn., assignor to Luther Ford & Company, a co-partnership composed of Allyn K. Ford and Robert E. Ford, Minneapolis, Minn.
Original application July 15, 1933, Serial No. 680,598. Divided and this application February 19, 1937, Serial No. 126,548
6 Claims. (Cl. 91—46)

1. In a bottle-dipping machine a standard em-

bodying a wax-holding receptacle of considerable extent, means for heating wax therein, a grid forming a series of parallel supports which in horizontal position extend beneath the surface of said heated wax a suitable distance and are



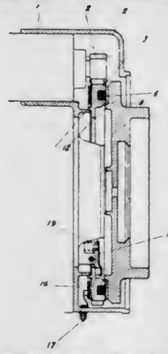
heated thereby, and means for applying the entire group of bottles while in a shipping case each in an individual compartment to said grid so that the rims of the bottles will be held by said pre-heated supports.

2,164,909

SYSTEM FOR STARTING INTERNAL COMBUSTION ENGINES OR THE LIKE BY MEANS OF ELECTRIC MOTORS

Albert Gachon, Lyon, France, assignor to Societe de Paris & du Rhone, Lyon, France, a corporation of France

Application August 26, 1937, Serial No. 161,080
In France September 10, 1936
4 Claims. (Cl. 192—84)



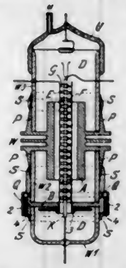
1. In a starting system for an internal combustion engine located in a casing and provided with a revolving member on its shaft, said system including an electric starting motor, a reducing system having one member integral with the motor and another member which forms a rim of a gear disposed between the casing and the revolving member, and electromagnetic clutch means between said gear rim and said revolving member, the combination of means for suspending on the casing the gear rim disposed between said casing and the revolving member, means for axially displacing the rim toward the revolving member, means for controlling such axial displacement by the electromagnetic clutch means, elastic means for returning the rim to the casing when said clutch is not energized, and separate means for centering said rim on the surface of the revolving member.

2,164,910

ELECTRONIC DISCHARGE TUBE

Alfred Gaebel, Berlin, and Annemarie Katsch, Berlin-Lichterfelde, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany, a company

Application January 16, 1937, Serial No. 120,894
In Germany January 16, 1936
3 Claims. (Cl. 250—27.5)



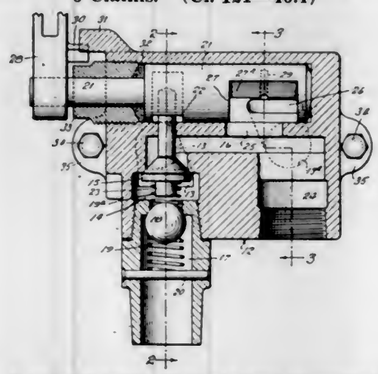
1. An electronic discharge tube comprising two hollow tubular vessels of ceramic material disposed end to end to enclose a cavity, a metal body adapted to act as an electrode disposed in said cavity, two metallic disk-like flanges united with said electrode and extending outwardly therefrom beyond the periphery of said vessels, a metallic skirt united with each of said flanges and extending along the outer surface of one of said vessels to an annular sealing zone on said outer surface, and a fused seal along each said zone between said ceramic vessel and said skirt, the length of the metallic path from said body through said flange and said skirt to said sealing zone being sufficiently great in relation to the thickness of said flange and skirt to reduce the heat conductance between said sealing zone and said body to a value which permits the rapid heating of said sealing zone.

2,164,911

VALVE CONSTRUCTION

Ralph A. Garverick, Marion, Ohio, assignor to The Marion Metal Products Company, Marion, Ohio, a corporation of Ohio

Application December 2, 1937, Serial No. 177,735
6 Claims. (Cl. 121—46.4)



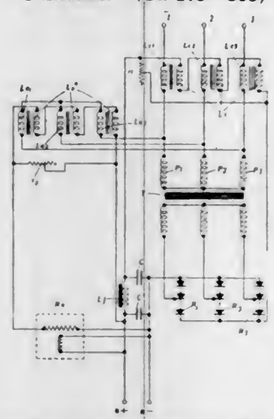
1. A valve construction adapted to control both the inlet and outlet of a fluid pump and comprising, in combination, means defining a first passage adapted to form a portion of a conduit connecting the pump output to a fluid pressure operated device, means defining a second passage adapted to form a portion of a return conduit from said fluid pressure operated device to the pump intake, a check valve in said first passage, a cut-off valve in said second passage, a communicating passage connecting said first and second passages, the communication with said first passage being on the pump-output side of said check valve, valve means controlling said communicating passage, and a single means for operating said last mentioned valve means and said check valve.

2,164,912

TENSION CONTROL DEVICE OR THE LIKE

Henri Edmond Giroz, Boulogne-Billancourt, France, assignor to International Standard Electric Corporation, New York, N. Y.

Application February 11, 1938, Serial No. 190,052
In France February 20, 1937
5 Claims. (Cl. 175—363)



1. A power supply arrangement for converting alternating current derived from a supply source of varying voltage into unidirectional current delivered to a load while maintaining the voltage across said load substantially constant in spite of variations of voltage of said supply source and variations in current drawn by said load, comprising a rectifier, connections for feeding said rectifier from said supply source, a first inductance having a variably saturable core connected to impede the supply of current from said source to said rectifier, a circuit including said load and said rectifier for supplying rectified current to said load, a first control winding disposed on said core to control the saturation thereof and connected in said output circuit so as to be traversed by a variable current dependent upon the current through said load, a second inductance having a variably saturable core connected to bypass part of the current flowing through said first inductance, a second control winding disposed on the core of said second inductance to control the saturation thereof, a regulating device comprising a resistance variable in response to variations in the voltage in said output circuit, and means for supplying a unidirectional current to said second control winding under control of said resistance.

2,164,913

INDIRECTLY HEATED CATHODE

Frank Douglas Goodchild, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application October 19, 1935, Serial No. 45,701
In Great Britain March 6, 1935
1 Claim. (Cl. 250—27.5)

An indirectly heated cathode for a thermionic valve comprising an open-ended casing of rectangular cross section having a greater length than breadth, an insulated structure of width approximately the internal breadth of said cathode mounted in the interior thereof, said structure being composed of three separately insulated cores covered as a unit to form a triple



wire and folded into flat zigzag form, each fold thereof consisting of two separate parts, each part comprising a single insulated body having a triple wire core, and means interconnecting the end of said triple wire core in series, whereby a single series conductor arrangement is provided.

2,164,914

ENZYME PREPARATION

Herbert C. Gore, Scarsdale, George Kirby, Yonkers, and Charles N. Frey, Scarsdale, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware

No Drawing. Application October 31, 1935, Serial No. 47,630
11 Claims. (Cl. 195—68)

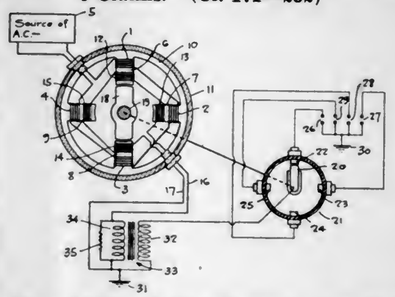
9. A method for the production of an invertase preparation, which comprises killing yeast by adding toluene thereto, subjecting to autolysis in the presence of sodium carbonate at a pH of 7 to 8.6 and at a temperature of about 30° C., diluting with about 70% water and adding about 20% kieselguhr, filtering, washing, acidifying the filtrate by adding phosphoric acid thereto to a value of pH 4.5 to 3.5, adding a decolorizing carbon and allowing to stand, again filtering, reacting the filtrate thus obtained with calcium carbonate in excess to adjust the acidity to a pH of about 5.1, filtering to remove excess calcium carbonate, conducting a current of air through the solution to remove carbon dioxide, and adding glycerine to give a concentration thereof of about 50%.

2,164,915

INDUCTION TIMER

Willard C. Hall, Jr., Los Angeles, Calif., assignor to Thomas H. Hearn, Los Angeles, Calif.

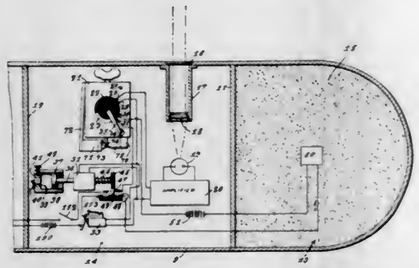
Application December 8, 1936, Serial No. 114,828
9 Claims. (Cl. 171—252)



1. In a device of the character described, a magnetic core, a plurality of primary coils carried by the core, a plurality of secondary coils also carried by the core, said secondary coils being so connected that the electromotive forces

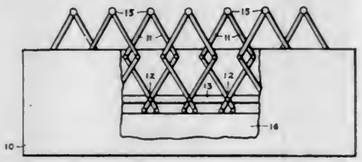
induced in some of the coils oppose those induced in other of the coils, and movable magnetic means for cyclically altering the electromotive forces induced in the secondary coils.

2,164,916
TORPEDO
John Hays Hammond, Jr., Gloucester, Mass.
Application January 5, 1934, Serial No. 705,353
11 Claims. (Cl. 114—21)



1. In combination with a moving body, an explosive charge carried thereby, a means for exploding said charge, a solenoid for controlling said means so that when said solenoid is deenergized it will cause the explosion of said charge and a light receptive device which, when illuminated from an external source, causes said solenoid to be energized and when not illuminated causes said solenoid to be deenergized.

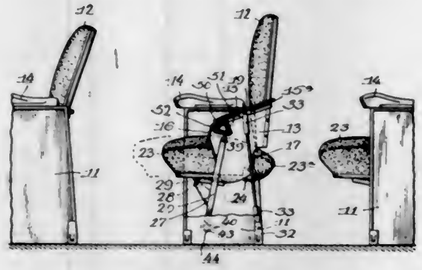
2,164,917
DISPLAY SIGN
John Hays Hammond, Jr., Gloucester, Mass.
Application December 18, 1937, Serial No. 180,501
13 Claims. (Cl. 40—130)



1. A display sign comprising a plurality of light sources, means repeatedly and simultaneously moving each of said light sources in predetermined paths to trace independently designated characters by each source, and means rendering said light sources luminous over a portion of that path corresponding to said characters.

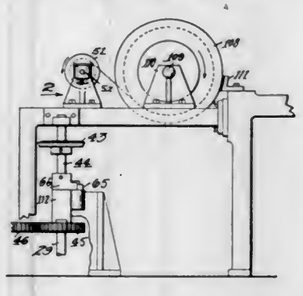
2,164,918
THEATER CHAIR
Merrill Wilkins Hard, Los Angeles, Calif.
Application June 9, 1937, Serial No. 147,291
10 Claims. (Cl. 155—86)

1. In a chair comprising a pair of pedestals, a pair of upright standards pivotally mounted at their lower ends on said pedestals, a chair back having rigid side members pivotally supported on the upper ends of said standards, a seat pivotally connected to said side members, a pair of upright links forward of said standards pivotally connected at their upper ends to said side members, and means for pivotally connecting the lower ends of said links to said pedestals including adjustable axial members secured to said pedestals by means whereby said members are capable of



being brought into and fixed in common horizontal alignment.

2,164,919
WEB GUIDING DEVICE
Edward F. Harmon, Flushing, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Original application December 13, 1935, Serial No. 54,301. Divided and this application January 24, 1938, Serial No. 186,619
1 Claim. (Cl. 271—2.1)

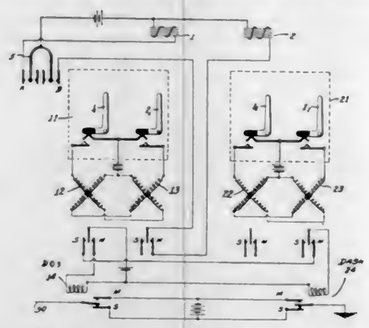


The combination of a tension guide through which a web passes having longitudinal continuous ribs on opposite sides for lightly engaging the web at opposite points and applying tension thereto, two series of rods on opposite sides of said web in position to receive the web from the tension guide, and a pair of rolls beyond said guide one made up of metal and the other of soft surfaced cylindrical surfaces, half of said rods passing between the metal surfaces and the other half between the soft surfaces of the rolls and both series extending downwardly beyond the rolls and constituting guides for the web.

2,164,920
MULTIPLE CHANNEL TELEGRAPH SYSTEM
Forest L. Henderson, Stamford, Conn., assignor to All America Cables, Incorporated, New York, N. Y., a corporation of New York
Application September 25, 1937, Serial No. 165,656
9 Claims. (Cl. 178—16)

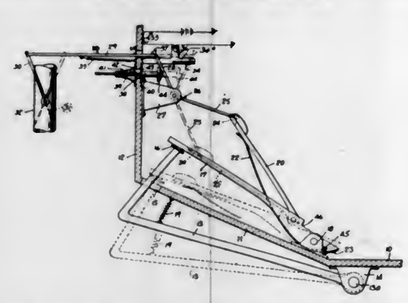
1. In a telegraph transmission system, a first tape controlled transmitter operating to transmit signal elements of one polarity and spaces upon a transmission line, a second tape controlled transmitter operating to transmit signal elements of the opposite polarity and spaces upon said line,

and means controlled by said first transmitter to condition said second transmitter for operation



only during the time said first transmitter is transmitting spaces.

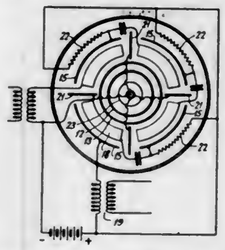
2,164,921
MOTOR VEHICLE CONTROL
Carlton L. Hoff, York, Pa.
Application February 17, 1937, Serial No. 126,146
19 Claims. (Cl. 192—3)



1. In a motor vehicle, the combination of an intake pipe having a throttle valve therein, an accelerator lever pivotally supported on means supported on the foot-board of the vehicle, a spring urging said lever away from the foot-board about its pivotal connection, an accelerator arm pivotally supported intermediate its ends on the vehicle with one end resting on said accelerator lever, the other end of the arm being connected to actuate said throttle valve, a second spring urging said one end to follow said lever when the latter is depressed and to close said throttle valve, said first mentioned spring being adapted to raise said lever and open said throttle valve against the tension of said second spring.

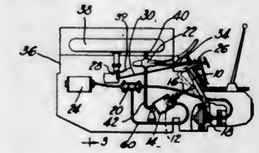
2,164,922
CROSS FIELD CONTROL TUBE
Hans Erich Hollmann, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application December 3, 1936, Serial No. 114,003
In Germany December 3, 1935
5 Claims. (Cl. 250—152)

1. An electron discharge device comprising a straight electron emitting cathode, annular electron lens electrodes coaxial with said cathode to concentrate the discharge from said cathode into a focused lenticular beam transverse to said cathode, an annular anode comprising two rings coaxial with said cathode and spaced to provide between their edges an annular slot having the same median plane as said beam and at substantially the focal line of said beam, and two annular control electrodes surrounding and concentric with said electron lens electrodes and spaced to provide between them an annular slot having



the same median plane as said beam, each of said annular electrodes having extending through it a plurality of radial slots to divide each annular electrode into a plurality of arcs, said slots being in radial alignment to divide the electrode system into a plurality of sectors, each containing an arc of a control electrode and an arc of the anode.

2,164,923
CLUTCH CONTROL MECHANISM
George F. Houston, Hamilton, Ohio, assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application December 6, 1935, Serial No. 53,127
9 Claims. (Cl. 192—.01)

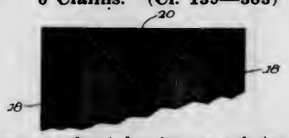


1. In an automotive vehicle provided with an internal-combustion engine, an accelerator, and a clutch comprising driving and driven members, power means for operating the clutch comprising a pressure differential operated motor operably connected to the clutch, and further comprising control valve means for said motor including an accelerator operated valve operable to initiate the clutch disengaging and engaging operations of said motor, and governor means for controlling the clutch engaging operation of said motor, said means comprising a member indirectly driven by said engine and a member directly driven by the driven clutch element, said driven members including a plurality of ball bearing race members.

2,164,924
ELECTROPLATING
Richard O. Hull, Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 11, 1937, Serial No. 147,792
5 Claims. (Cl. 204—1)

1. In a process for the removal from an aqueous cyanide plating bath of excess carbonate which has deleterious effects upon the bath, the step comprising adding calcium sulfate thereto.

2,164,925
TEXTILE FABRIC
Harrison M. Kelso, Jr., Evanston, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application December 17, 1936, Serial No. 116,337
6 Claims. (Cl. 139—383)



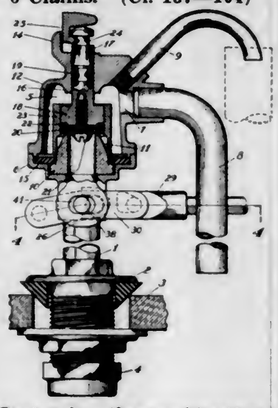
1. A woven sheet having a substantially uniform number of warp threads per unit of linear measurement throughout its entire width, and having reinforced strengthened areas adjacent its longitudinal edges, the warp threads in said areas each consisting of a relatively greater number of plies, and being of greater strength than the threads in the area therebetween.

2,164,926
CATHETER STYLET
Arnold Kleine, Flushing, N. Y., assignor to American Cystoscope Makers, Inc., New York, N. Y., a corporation of New York
Application June 2, 1936, Serial No. 83,012
4 Claims. (Cl. 128—349)



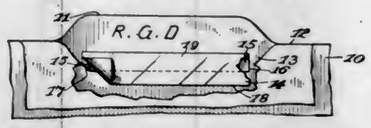
1. A stylet for a catheter having a lateral eye behind its forward extremity, said stylet having a bifurcate tip whose notch is adapted to engage the forward edge of said eye, the inner tine of said stylet tip being of rounded blunted contour and being longer than the other so as to extend forwardly toward the catheter extremity.

2,164,927
FLOAT VALVE
Carl J. Kohler, Kohler, Wis.
Application August 11, 1938, Serial No. 224,236
6 Claims. (Cl. 137—104)



2. In a float valve, the combination of a valve body, a cap on said body, a valve stem extending through said cap, a yoke attached to said body and having a portion adapted to operatively engage said valve stem, an upstanding lug on said cap adapted to hold said yoke in operative engagement with said valve stem and being turned out of engagement with said yoke upon turning of said cap from its normal position.

2,164,928
INDEX TAB OR TITLE PROTECTOR
Theodore H. Krueger, Shelton, Conn.
Application January 30, 1937, Serial No. 123,130
7 Claims. (Cl. 129—16.8)



1. A sheet adapted to receive a title, a strip of non-adhering but transparent flexible material lying near the location where the title will come, an extension of the strip adhering to the sheet, and a normally non-sticky water-insoluble transparent coating on the non-adhering strip adapted to seal the strip to the sheet under heat and pressure to cover the title and dependent upon the presence of paraffine for low melting and dependent upon the presence of rubber for adhesion.

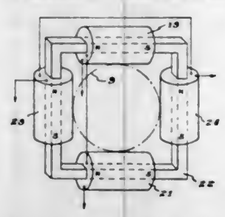
2,164,929
COVER STRUCTURE FOR SMOKING PIPES
David P. Lavietes, Brooklyn, N. Y.
Application May 13, 1937, Serial No. 142,330
4 Claims. (Cl. 131—176)

1. A cover structure for a smoking pipe having means exposed exteriorly of the bowl thereof, said structure embodying therein a cover plate having draft openings therethrough, a hinge plate shaped to conform to the outer surface of the bowl of a pipe adjacent the top thereof and having a resilient portion having its upper edge free normally sprung outwardly of the bowl, and a hinge connection between said hinge plate and said cover plate, said resilient portion being adapted to be detachably engaged with said exposed means, whereby said plate may be forced and held in intimate contact with the bowl of the pipe by the tension of said resilient portion.

2,164,930
PROCESS FOR REDUCING VAT DYESTUFFS
Herbert August Lubs, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 10, 1937, Serial No. 173,848
8 Claims. (Cl. 8—34)

1. In the process of converting a vat dyestuff into its leuco form, the step which comprises reducing the vat dyestuff by the aid of formamidine-sulfinic acid.

2,164,931
CATHODE RAY TUBE DEFLECTING DEVICE
Ioury G. Maloff, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application October 31, 1935, Serial No. 47,556
7 Claims. (Cl. 250—157)



4. In combination, a cathode ray tube, electromagnetic deflecting means for deflecting the cathode ray in said tube, said means comprising a closed magnetic core structure of rectangular shape, said core structure having two similar vertical legs and two similar horizontal legs, a pair of similar deflecting coils wound upon a pair of said similar legs and connected with their magnetic fields in bucking relation whereby a deflecting field is produced which is symmetrical with respect to the center of said core, said core structure being so positioned that said deflecting field is substantially transverse to said cathode ray, each of said coils being split into two sections which are spaced apart, and the core legs upon which said coils are wound having projections which extend between said coil sections and towards the core center.

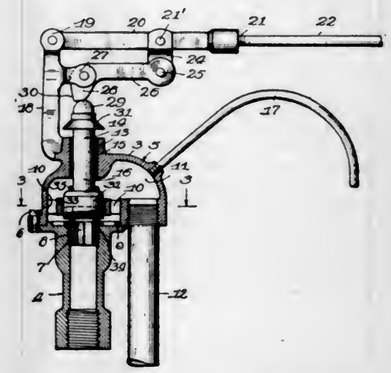
2,164,932
DIPHENYL-DIAMINO ACID COMPOUNDS
Eugene A. Markush, Jersey City, and Julius Miller, Newark, N. J., assignors to Pharma Chemical Corporation, New York, N. Y., a corporation of New York
No Drawing. Application January 12, 1937, Serial No. 120,222
8 Claims. (Cl. 260—507)

8. Compounds of the group consisting of 3,3'-dicarboxy-6,6' disulpho-4,4' diamino diphenyl and the alkali metal salts thereof.

2,164,933
PROCESS OF BAKING FUEL BRIQUETTES
Henry F. Maurel, Providence, R. I., assignor to Maurel Investment Corporation, Providence, R. I., a corporation of Rhode Island
No Drawing. Application November 7, 1934, Serial No. 751,880
1 Claim. (Cl. 202—19)

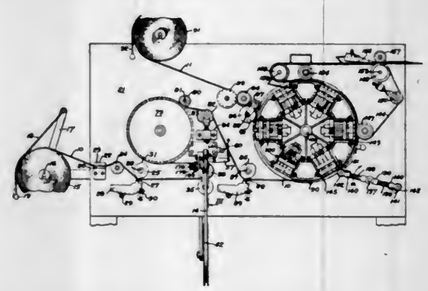
The method of baking fuel briquettes by a continuous process which consists in directly heating a stream of briquettes passing within an enclosed retort, and containing coking coal with an asphalt base binder, by introducing hot flue gases at about 1000° F. containing a controlled amount of oxygen, each briquette being heated for a period not over twenty minutes to remove moisture and the lighter hydro-carbons and to create an exothermic reaction, the amount of oxygen being so controlled that the briquettes do not reach a temperature in excess of 700° F. as they pass continuously in the gradually cooling inert gas atmosphere for a period of several hours to produce hard, clean, weatherproof briquettes not subject to disintegration during combustion.

2,164,934
SUPPLY VALVE
John T. McGrath, Libertyville, Ill.
Application September 21, 1936, Serial No. 101,715
2 Claims. (Cl. 137—104)



1. A valve construction for controlling the water supply to a flush tank and the like, comprising a housing for the valve structure, an arm projecting from the housing, a lever arm carrying a float at one end and pivotally mounted at its other end upon the projecting arm, a freely slidable valve member in the housing having an actuating stem extending outside the housing, a cam lever having an end pivotally mounted on the lever arm and also pivotally mounted intermediate its length upon the supporting arm, and a cam surface on the free end of the cam lever and adapted to engage the valve stem to close the valve member when the float is raised to a predetermined height.

2,164,935
METHOD AND APPARATUS FOR FORMING PARCEL HANDLES
Ferd H. Meyer, Oakland, Calif., assignor to The Adhesive Products Co., San Francisco, Calif., a corporation of California
Application August 2, 1937, Serial No. 156,962
11 Claims. (Cl. 93—1)

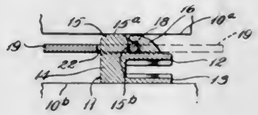


1. The method of forming a parcel handle comprising a body member of gummed paper tape and a bail member of flexible tape secured thereto which comprises perforating the body member, bending the bail member to the shape of a staple, and projecting its ends through the perforations in the body member.

2,164,936
PROCESS FOR THE SEPARATION OF INVERTASE
Glennard E. Miller, New York, and Robert F. Light, Mount Vernon, N. Y., assignors to Standard Brands Incorporated, New York, N. Y., a corporation of Delaware
No Drawing. Application March 12, 1937, Serial No. 130,510
5 Claims. (Cl. 195—68)

5. In a method for the production of an invertase preparation which includes releasing invertase from yeast at a pH of about 5.6 to 8.6, separating solid from liquid, acidifying the liquid to a pH of 3.5 to 4.5, whereby protein material is precipitated, filtering and adjusting acidity of the filtrate to a pH value of 3.5 to 6.5 by addition of an antacid substance, the improvement which consists in further processing the liquid initially separated from solid in the presence of a heavy metal with addition thereto of glycerine in an amount of about 50% based upon the final volume of the invertase preparation.

2,164,937
NONCRUSHING SLIDER
Louis H. Morin, Bronx, N. Y., assignor to Whitehall Patents Corporation, Bronx, N. Y., a corporation of New York
Application November 28, 1938, Serial No. 242,736
4 Claims. (Cl. 24—205)

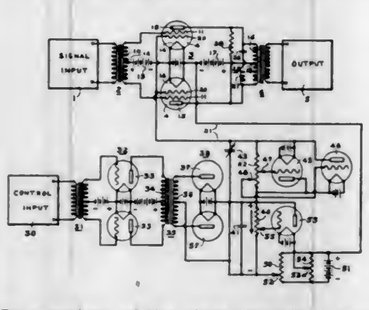


1. A non-crush slider for separable fasteners of the character described, said slider comprising top and bottom walls having narrow and wide end portions, said walls being joined and spaced at the wide end portion by a connecting web, the top wall having integral means on the outer surface thereof for coupling a finger piece or pull therewith, said means comprising a hook-shaped member arranged upon the narrow end portion of said wall and an enlarged solid reinforcing body arranged upon the wide end portion of said wall, the upper surface of said body being arranged above the upper surface of said hook-shaped member, said body forming in conjunction with said member a recess for receiving the finger piece or pull, and said body extending longitudinally of the slider and directly above and in registering alinement with said connecting web so that pressure applied to the upper surface of said slider will be taken up directly through said body and web.

2,164,938
ALLOY
Arthur W. Peterson, North Attleboro, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
No Drawing. Original application August 23, 1938, Serial No. 226,328. Divided and this application December 2, 1938, Serial No. 243,527
4 Claims. (Cl. 75—165)

1. A gold alloy consisting of about 33 to 84% gold, 11 to 67% copper, and 0.1 to 5% cobalt.

2,164,939
TIMING CONTROL
Arthur Pfister, Woodside, N. Y., assignor, by mesne assignments, to John Hays Hammond, Jr., Gloucester, Mass.
Application June 15, 1936, Serial No. 85,283
10 Claims. (Cl. 179—171)



1. In a system of the class described, a control circuit comprising a condenser, an impedance carrying a fluctuating unidirectional current, a second impedance, said impedances being connected in series in the charge and discharge path of said condenser and means causing said second impedance to have different values for charging current and for discharge current whereby different rates of charge and discharge are obtained.

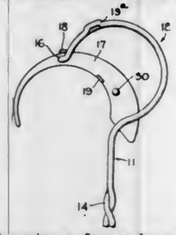
3. In combination, a space discharge amplifier, an impedance connected to control the amplification ratio thereof, means to supply control energy to said impedance, and a timing circuit to control the rate of change of said energy, said timing circuit having means for controlling independently the rates of increase and of decrease of energy.

2,164,940
HAIR CLIP
Bohumil Polák, Prague, Czechoslovakia
Application July 13, 1938, Serial No. 218,966
In Czechoslovakia December 10, 1937
1 Claim. (Cl. 132—50)



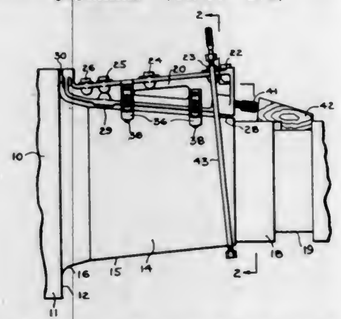
In a hair clip having two resilient legs joined by a loop at one end thereof which imparts to the legs a tendency to spring apart from each other, said legs being provided adjacent to their other ends with corresponding male and female parts of a locking device of a snap fastener type with the male part upon the one leg formed by a lug and the female part upon the other leg formed by a loop capable of receiving said lug into the same and retaining the same in locking engagement, the features comprising small end slot portions extended longitudinally from the ends of the loop forming the female part of the locking device so as to increase the resiliency of the sides of said loop, an exteriorly concavely arched portion upon said other leg containing said female part or slotted loop so as to raise said loop and prevent the male part or lug of the locking device from projecting beyond the general outline of the lower supporting surface of the clip when the latter is in closed position.

2,164,941
GARMENT HANGER
Frances A. Rentchler, Mamaroneck, N. Y.
Application September 10, 1936, Serial No. 100,058
15 Claims. (Cl. 24—241)



11. Hook structure for a hanger, comprising a hook element having a hook opening and a cradle, said hook element including two mutually spaced, coextensive hook members having a member secured therebetween adjacent the hook-ends thereof, said member serving as a short-shaft; and a lever journaled intermediate its ends on said short-shaft, said lever having angularly related arms, one of said arms being normally positioned at a location intercepting repose in the bed of said cradle, and being adapted to swing toward said bed and substantially into coincidence with the level of repose therein upon the reception of a hooked object by said cradle, and the angular position of the other arm with respect to the first named arm being such that, upon said swinging of the first named arm, said other arm will swing into a position closing the said hook opening, mutually opposite pressure between said bed and said hooked object being effective to maintain said first named arm in its swung position and, coincidentally, said other arm in its position closing the said hook opening.

2,164,942
MEASUREMENT OF FRUSTOCONICAL PARTS
Charles A. Rich and Charles Palmer, Worcester, Mass., assignors to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application September 20, 1937, Serial No. 164,715
6 Claims. (Cl. 33—174)



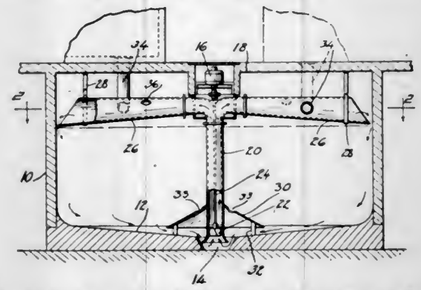
1. A gauge for use, in conjunction with an outside micrometer caliper or similar device, for measuring a frusto-conical part having a shoulder connected therewith comprising a structure having portions providing surfaces which define two planes diverging at an angle equal to the angle desired for the frusto-conical part, said portions being located between said planes, the structure being adapted to be placed against one element of the frusto-conical surface with the said two planes diverging in a direction opposite to that in which the elements of the frusto-conical surface diverge, the structure also having means providing a further surface in a plane transverse to the diverging planes and at a predetermined distance from the line of intersection of the diverging planes, the said further surface being adapted to engage the shoulder and thus locate the gauge accurately with respect to the frusto-conical part in a direction axial thereof.

2,164,943
PREPARATION OF CALCIUM CARBONATE
Howard Roderick, Grosse Ile, Mich., assignor to Michigan Alkali Company, Wyandotte, Mich., a corporation of Michigan
No Drawing. Application August 27, 1936, Serial No. 98,202
9 Claims. (Cl. 23—66)

1. A process of making calcium carbonate in fine particle size, which comprises adding a caustic soda solution containing about 50 grams per liter to a calcium chloride solution from ammonia-soda operation and containing about 100 grams per liter, quickly mixing while maintaining a temperature of 85–100° F., and then carbonating the suspension so formed, separating the precipitate, and washing.

9. In a process of making calcium carbonate in fine particle size, reacting between calcium chloride and sodium hydroxide in solution, at a temperature of 85 to 100° F., the concentration of the calcium chloride being substantially twice that of the sodium hydroxide, and then treating the so-formed calcium hydroxide suspension with carbon dioxide gas, to convert the particles of suspension to calcium carbonate.

2,164,944
PULP STOCK AGITATING APPARATUS
John A. Rosmait, Manistee, Mich.
Application June 10, 1936, Serial No. 84,593
3 Claims. (Cl. 92—37)



1. A storage chest for pulp stock having a floor sloping toward a depressed sump portion, a pump having an intake extending vertically down into the chest and into the depressed sump portion thereof terminating above the floor of the sump portion to withdraw pulp stock therefrom, a dome-shaped baffle encircling the pump intake adjacent to its lower end, said baffle extending outwardly and downwardly from the pump intake surmounting the depressed floor portion of the chest and spaced thereabove, and extending outwardly over the floor of the chest beyond said sump, said pump having oppositely directed discharge outlets adapted to deliver pulp stock into the chest adjacent to spaced apart portions of its side walls, each of said outlets flaring from a portion of reduced diameter at its intake end

toward a portion of maximum diameter at its outlet end and means for delivering additional pulp stock into said outlets to mix with the pulp stock flowing therethrough from said pump, said pump intake terminating within the sump in a flaring end portion spaced from the sump wall and below the chest floor to cause the pulp stock to bend sharply as it flows through the sump into said pump intake.

2,164,945

ANTISKID CHAIN

Robert C. Rueff and Leonard Hammond, St. Louis, Mo., assignors to Nixdorff-Krein Manufacturing Company, St. Louis, Mo., a corporation of Delaware

Application May 19, 1938, Serial No. 208,759

6 Claims. (Cl. 152—243)



1. An anti-skid chain comprising a pair of side-chains, a fastener on one end of each side-chain selectively engageable with any one of a plurality of links adjacent the other end of said side-chain, a plurality of cross-chains permanently connected at their ends to and extending transversely between said side-chains, and a cruciform cross-chain permanently connected to the side-chains at their second-named ends and being detachably connected to the fasteners.

2,164,946

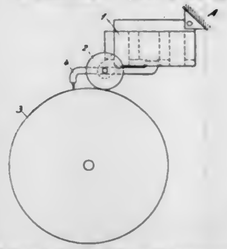
PICTURE TELEGRAPH DEVICE

Wilhelm Scheppmann, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Application December 16, 1937, Serial No. 180,062

In Germany July 9, 1936

5 Claims. (Cl. 178—13)



1. A picture telegraph arrangement for reproducing a picture from picture impulses comprising a lever pivoted at one end, a mechanically operating printing equipment mounted on said lever, a picture drum, means at the other end of said lever resting on said drum for conveying said printing equipment over said drum, a single-pointed stylus-shaped pressure member mounted on said lever for relative movement with respect to said equipment in response to image impulses, said stylus shaped member being operatively associated with said drum for reproducing the image, and means for imparting to said stylus shaped member an additional vibratory motion with respect to said equipment independent of said picture impulses to prevent the raising of said lever and printing equipment away from said drum by continued pressure of said stylus-shaped member on said drum.

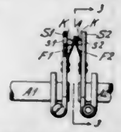
2,164,947

COUPLING DEVICE

Wilhelm Scheppmann, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Original application October 10, 1936, Serial No. 104,977. Divided and this application July 9, 1938, Serial No. 218,446. In Germany October 14, 1935

1 Claim. (Cl. 64—19)



In a clutch the combination of two shafts arranged end to end, a disc on each of these shafts, a rod having globular ends, said discs having each a triangular aperture, and means to press the said globular ends each into one of these apertures so that the rod is mounted therein.

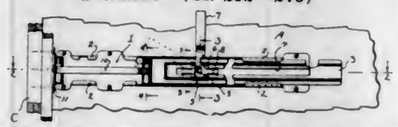
2,164,948

ADJUSTER FOR SWINGING DOORS

Adam Schneider, Milwaukee, Wis.

Application August 15, 1938, Serial No. 225,043

1 Claim. (Cl. 292—275)



An adjuster for swinging doors comprising, a plate adapted to be secured to a door having flanges on its edges forming channels, a threaded stud carried by the plate and held against movement thereon, a slotted strap guided in the plate channels and normally movable longitudinally of the plate, the stud extending through the slot in the strap, a friction member slidably mounted upon the stud movable toward and away from the strap for frictional contact therewith, a lever threaded upon the stud, whereby upon movement of the lever in one direction for threading the same upon the stud, the friction member will engage said strap and hold the strap tight against said plate, a link pivotally secured to the strap and adapted to be pivotally connected to the door frame, a U-shaped bracket mounted upon the stud against swinging movement and having its terminals extending through the slot in the strap, whereby the stud, strap, and U-shaped bracket will be held against relative turning movement, and means holding the U-shaped bracket against displacement off the stud.

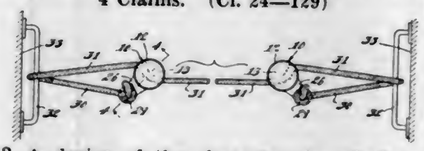
2,164,949

LINE SECURING DEVICE

Rudolph E. Schreiber, Chicago, Ill.

Application January 31, 1938, Serial No. 187,909

4 Claims. (Cl. 24—129)



2. A device of the character described comprising a head, a shank and an apertured ear formed thereon near the head adapted to secure

the end of a cord, said shank having a slot therein forming legs with opposed walls adapted to secure said cord therein, said slot having a bend and one wall of said slot having a bead therein opposite the bend in the other wall.

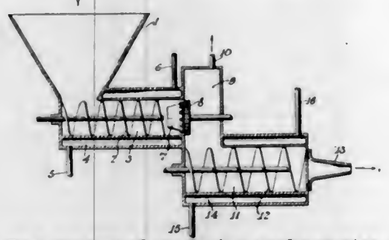
2,164,950

PROCESS FOR FORMING AGGLOMERATES

John F. W. Schulze, deceased, late of Cleveland, Ohio, by Henry L. Schulze, administrator, Yonkers, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 20, 1937, Serial No. 169,978

9 Claims. (Cl. 75—3)



1. In a process of producing agglomerates containing a comminuted zinciferous material, the steps comprising moistening the material with water, adding a binder, kneading the moistened mass until plasticity is developed, and forming agglomerates of the plastic kneaded mass by extruding it thru a die while subjecting it to a vacuum.

2,164,951

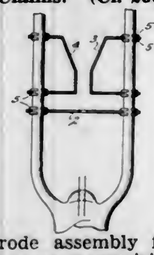
ELECTRODE HOLDING DEVICE

Erich Schwartz, Berlin-Zehlendorf, Germany, assignor to the firm of Fernseh Aktiengesellschaft, Zehlendorf, near Berlin, Germany

Application June 4, 1937, Serial No. 146,479

In Germany June 12, 1936

4 Claims. (Cl. 250—141)



1. An electrode assembly for a cathode ray tube having a press, comprising insulating supporting arms formed integrally with and extending from said press, electrodes having apertured terminal portions arranged to fit over and around said supporting arms, and resilient retaining members disposed about said supporting arms on either side of and adjacent said apertured terminal portions.

2,164,952

PROCESS OF PURIFYING AND DISPERSING COLORING MATTER OF THE ANTHRAQUINONE SERIES

Karl Josef Schwing, East Orange, N. J.

No Drawing. Application May 12, 1938, Serial No. 207,503

2 Claims. (Cl. 260—379)

1. A process of purifying polyaminoanthraquinones having at least one amino-group replaced by a member of the group consisting of

—$NHCH_2CH_2OH$, —$NHCH_2CH_2CH_2OH$ and —$NHCH_2CH_2CH_2CH_2OH$,

which process consists in dissolving the anthraquinone compound in water solutions of hydrochloric acid, filtering the solution from insoluble byproducts and neutralizing the solution with caustic soda, whereby the colorbase precipitates out in a fine form.

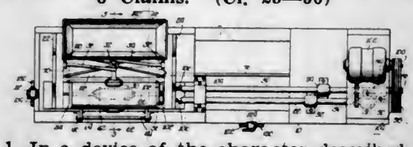
2,164,953

BLOCK OR CONDUIT FORMING APPARATUS

Dudley Shaw, Oklahoma City, Okla.

Application December 7, 1936, Serial No. 114,625

8 Claims. (Cl. 25—36)



1. In a device of the character described, the combination of a bed plate having an elongated stepped mold portion, a plate hinged to said bed plate adjacent said stepped portion and movable to seat on said stepped portion to form a side thereof, movable members disposed on said bed plate for forming opposite ends of said mold portion, means for controllably moving said movable members, a hopper slidably mounted on said bed plate and movable to be disposed in vertical alignment with said mold portion, a mold plate on said hopper movable therewith to be disposed above and to close said mold portion, means for moving and locking said hopper and mold plate in selected positions, a slidable carriage mounted on said bed plate and movable with respect to said mold portion, means for moving said carriage, a plurality of shafts journalled on said bed plate and carriage and movable with said carriage, said shafts having ends adapted to extend through apertures in the adjacent movable member into said mold portion, said ends each having an end cylindrical portion and an adjacent helical portion for forming apertures and packing the block to be formed in said mold portion, power means on said carriage for rotating said shafts, and means for selectively moving said carriage.

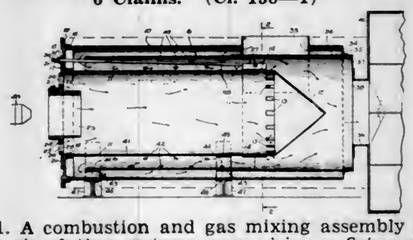
2,164,954

COMBUSTION AND GAS MIXING ASSEMBLY FOR GAS CIRCULATING SYSTEMS

Thomas J. Stephens, Brooklyn, N. Y.

Application October 6, 1936, Serial No. 104,275

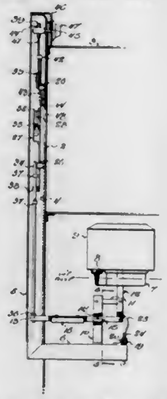
6 Claims. (Cl. 158—1)



1. A combustion and gas mixing assembly for gas-circulating systems, comprising a firing cylinder having an open end and a closed end and being provided with circumferential discharge openings adjacent its closed end, means to fire said firing cylinder from the open end thereof, a

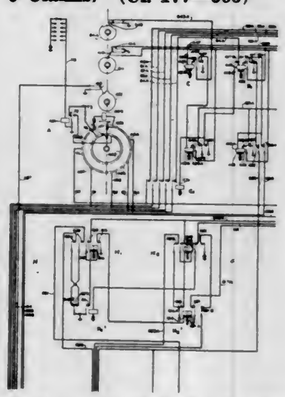
second cylinder enclosing said firing cylinder so as to leave a cylindrical space therebetween, and a cylindrical baffle between said cylinders.

2,164,955
THERMOSTATIC CONTROL FOR LIQUID FUEL BURNERS
Alva T. Smith, Milwaukee, Wis., assignor to National Enameling and Stamping Company, Milwaukee, Wis.
Application May 17, 1937, Serial No. 143,067
2 Claims. (Cl. 236—15)



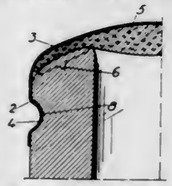
1. In a liquid fuel burner comprising a vertically movable burner head, and a fixed constant level fuel reservoir and supply line, said burner head having a depending leg, a flexible connection between said burner head and fuel supply line, means for vertically shifting and maintaining a horizontal position of said burner head, said means including a support, a lever pivotally mounted upon said support and pivotally connected to said depending leg, a parallel link pivotally connected to said support and leg, and a thermostat controlling actuation of said lever.

2,164,956
AUTOMATIC STOCK QUOTATION BOARD
Clyde Smith, Hopkinsville, Ky., assignor, by mesne assignments, to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application September 10, 1930, Serial No. 480,935
6 Claims. (Cl. 177—353)



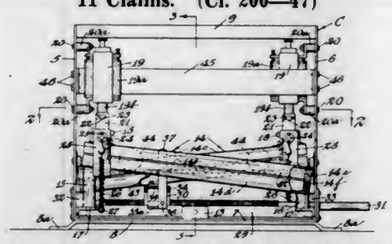
1. In combination, apparatus for posting quotations, comprising transmitting and receiving means, a receiving circuit including groups of pairs of control relays for stock, shelf and price, guard relays associated with each group, sets of recording means, means responsive to the operation of the guard relays associated with said stock and price control relays for selecting one of said sets of recording means, means responsive to said transmitting means for setting portions of said selected set to predetermined positions, positioning means rendered effective through the operation of said set portions of said selected set, quotation registering means, and means for setting the latter to predetermined positions of said positioning means.

2,164,957
CAP CLOSURE SEAL
Rolf Steenhoff, Stockholm, Sweden
Application December 1, 1937, Serial No. 177,444
In Sweden December 3, 1936
4 Claims. (Cl. 215—38)



1. In combination with a bottle neck, a closure cap comprising a continuously curved dome-shaped top portion having its greatest inner periphery in contact with the greatest outer periphery of the bottle neck, said dome-shaped cap portion having an altitude substantially equal to the inner radius of the mouth of the bottle neck and being supported over the entire radial thickness of the wall of the bottle neck.

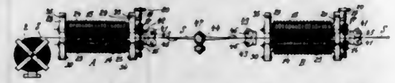
2,164,958
ELECTRICAL REVERSING CONTROLLER—REMOTELY ADJUSTABLE
Albert A. Stein, Cold Spring, Minn.
Application February 17, 1938, Serial No. 190,988
11 Claims. (Cl. 200—47)



1. A reversing controller for mechanism having electrically controllable apparatus for propelling a movable portion thereof in successively opposite directions including, a guide of which one end is disposed at a higher level than the other, an electrical contact element arranged for movement generally longitudinally of said guide and adapted to be connected to an oscillatable portion of a mechanism for movement in unison therewith, an electrically conductive element supported by said guide in longitudinally movable relation thereto upwardly of said contact element for engagement thereby and co-operation therewith in constituting an electrical switch unit adapted to be connected in a control circuit

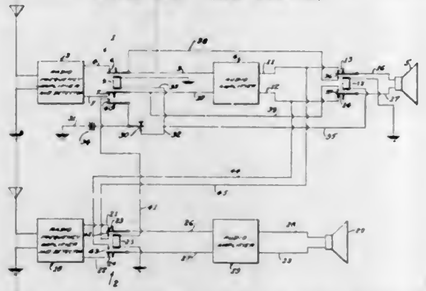
of an electrically controllable apparatus said conductive element being movable downwardly of said guide responsive to gravity, and means for normally restraining said conductive element from movement longitudinally of said guide said means being releasable to enable movement of said conductive element independently thereof.

2,164,959
SHARPENING METAL STRIPS
Leo Steiner, Budapest, Hungary
Application April 21, 1937, Serial No. 138,141
In Germany and Great Britain May 2, 1936
10 Claims. (Cl. 51—80)



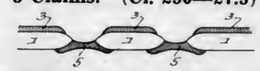
4. In a strip-sharpening machine, a sharpening unit comprising a pair of sharpening rolls so opposed with their axes in parallelism that their sharpening surfaces meet along a common generatrix and form between them a channel wedge-shaped in cross-section, and means for rotating said rolls in opposite directions, in combination with an endless chain arranged with its whole extent in the plane of symmetry of said channel and composed of links having grooved peripheral portions adapted to engage and bear with substantial but yielding pressure upon the outer edge of the strip to be sharpened when the inner edge of the strip occupies the bottom portion of said channel so as to be therein operated on simultaneously on both sides, a pair of pulleys rotatably mounted in said plane of symmetry to carry said chain and means retaining such links of said chain as occupy positions allowing engagement with the strip in said plane of symmetry but allowing them free movement towards and off said channel.

2,164,960
COMBINED RADIO RECEIVING AND INTERCOMMUNICATION SYSTEM
Kenneth E. Stockton, Ridgewood, N. J., and Jacob S. Jammer, Cumberland, Md., assignors to International Standard Electric Corporation, New York, N. Y., a corporation of Delaware
Application February 27, 1937, Serial No. 128,114
8 Claims. (Cl. 179—1)



1. A combined radio receiving and intercommunication system comprising two radio receivers, each having a loud speaker and at least one of said receivers having an audio frequency amplifying stage, and means comprising a switch for simultaneously disconnecting the loud speaker from one of the receivers and providing a circuit connection whereby electric currents generated by use of said loud speaker last mentioned as a microphone, are conducted to the input of the audio frequency amplifying stage of the other of said receivers.

2,164,961
MOSAIC PLATE
Heinrich Strübig, Teltow, near Berlin, Gartenstadt Seehof, Germany, assignor to the firm Fernseh Aktien-Gesellschaft, Zehlendorf, near Berlin, Germany
Application May 18, 1937, Serial No. 143,396
In Germany June 17, 1936
5 Claims. (Cl. 250—27.5)



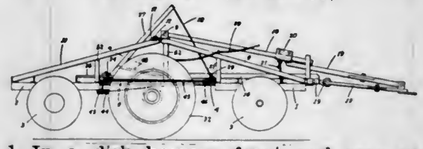
3. The steps in the method of preparing a photo-sensitive mosaic plate which comprise coating a sheet of insulating material with a layer of conductive material, simultaneously perforating said sheet of insulating material and conductive coating, temporarily covering the edges of said conductive coating bordering on said perforations, filling said perforations through said sheet of insulating material with conductive material and subsequently uncovering the covered edges of said conductive coating.

2,164,962
COMBINATION SPRING AND ATTACHMENT
Hyman Tampkin, Brooklyn, N. Y.
Application May 12, 1937, Serial No. 142,137
2 Claims. (Cl. 5—267)



1. In a device of the character described, the combination of a helical wire tension spring and an attachment having a transversely and substantially semi-circularly curved sheet-metal base embracing the side of one end of the spring, the base having an inwardly projecting catch engaging with said end of the spring, and said base also having a relatively narrow tongue extending inwardly thereof, side portions of the base extending to opposite sides of the point of connection of the tongue with the base and the transverse edges of the side portions extending away from said point forming shoulders, and the tongue deformed outwardly adjacent said point of connection to provide a preformed inward seat offset from the axis of the spring for receiving a wire passing over said shoulders and holding it between said seat and shoulders.

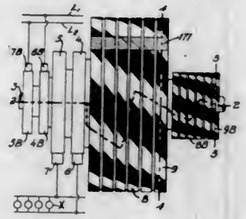
2,164,963
DISK HARROW
Donald F. Taylor, Hughson, Calif.
Application April 23, 1938, Serial No. 203,869
11 Claims. (Cl. 55—83)



1. In a disk harrow, front and rear gangs spaced apart and connected together as a unit for relative angling in a horizontal plane, ground engaging wheels disposed between the gangs, means mounting the wheels in connection with the

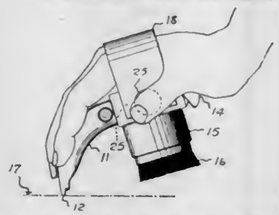
harrow for relative raising and lowering movement, means functioning with the straightening of the gangs from an angled position to relatively lower the wheels, and means operable by rotation of one wheel to thus straighten the gangs.

2,164,964
DIRECT CURRENT TRANSFORMER
Michael I. Topalov, Detroit, Mich.
Application August 10, 1936, Serial No. 95,160
8 Claims. (Cl. 171—97)



1. A commutator for mechanical polyphase converters comprising, a shaft, a pair of electrically conductive cylindrical elements of different diameters disposed in insulated concentric relation on said shaft, the cylindrical element of smallest diameter being longest in axial length for extending at one end beyond one end of the short cylindrical element, a pair of slip rings disposed on the unequally extended ends of said cylindrical elements for continuously engaging brushes of different polarity, and contact segments extending from the other ends of said cylinders in alternately spaced relation in a circular path around the commutator for engaging a plurality of spaced brushes.

2,164,965
APPARATUS FOR CLEANING FABRICS AND THE LIKE
Abraham Traube, Brooklyn, N. Y.
Application May 14, 1937, Serial No. 142,566
4 Claims. (Cl. 15—105)



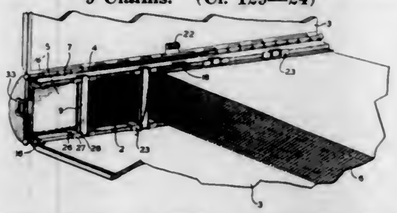
4. A portable hand-operated device for use in "spot-cleaning" fabrics, comprising a brush and a scraper located in close proximity to the plane of the working face of the brush but spaced from the brush itself, a body part having an inclined member for engagement with the palm of the hand and a curved depending member carrying the scraper and shaped for engagement by the fingers, means for supplying cleaning fluid to the scraper, a control member for said fluid, and a flexible strap connected to the device and holding same in close engagement with the palm of the hand and with the fingers whereby the said fluid-control device may be conveniently actuated without releasing the grip and while pressure is being exerted by the fingers upon the scraper, a slight tilting movement of the device being sufficient to change from one to the other of the brushing and scraping positions.

2,164,966
PLEATED MATERIAL AND METHOD OF MAKING THE SAME
Paul Tutein, deceased, late of Copenhagen, Denmark, by Kamma Tutein, widow, Copenhagen, Denmark
Application April 14, 1938, Serial No. 202,020
In Germany September 9, 1937
13 Claims. (Cl. 93—84)



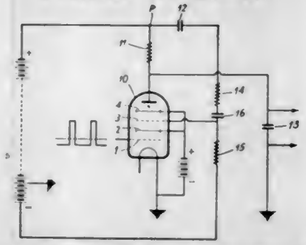
1. A pleated sheet having folds extending in spaced, substantially parallel planes, the fold in each of at least alternate planes being formed of two parts disposed in angular relation.

2,164,967
LOOSE LEAF BINDER
Paul O. Unger, Elmhurst, Ill., assignor to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application April 27, 1935, Serial No. 18,528
9 Claims. (Cl. 129—24)



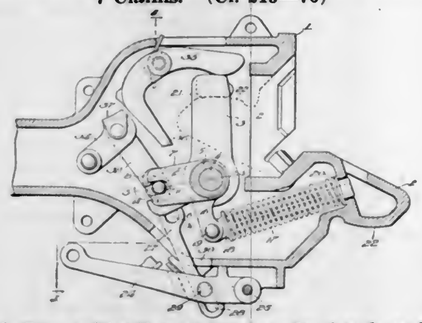
8. In a loose leaf binder, a plurality of sheet retaining posts, a pintle sheath provided with notches to receive said sheet retaining posts, and means secured to said sheath member and having projections extending inwardly beyond the ends of said notches to restrict the longitudinal dimensions of said notches to facilitate proper positioning of said posts in said notches and to retain said posts in said notches.

2,164,968
SAW-TOOTHED WAVE FORM GENERATOR
Rudolf Urtel and Robert Andrieu, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application August 11, 1936, Serial No. 95,339
In Germany August 13, 1935
5 Claims. (Cl. 250—36)



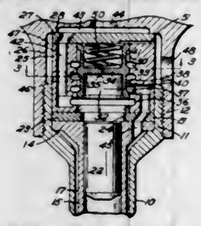
1. A circuit for producing a current and voltage of modulated sawtooth wave form comprising a vacuum tube having a cathode, a first control grid, a second control grid and an anode, a condenser connected in the cathode anode circuit of said tube, a source of potential connected to said anode, a resistance connected to said source of positive potential, said resistance, condenser and source of positive potential being connected in series, means for applying an external source of regularly re-occurring impulses to said first control grid to cause the tube to become alternately conducting and non-conducting whereby a sawtooth voltage is developed and means for applying at least a portion of said voltage of sawtooth wave form developed within said circuit to said anode and said second control grid whereby a current and voltage of modulated sawtooth wave form will appear across said condenser, the frequency of said applied voltage of sawtooth wave form being substantially less than the frequency of said applied impulses.

2,164,969
TIGHT-LOCK CAR COUPLER
Herbert E. Van Dorn, Chicago, Ill., assignor to The Dornvan Corporation, a corporation of Illinois
Application August 19, 1937, Serial No. 159,829
7 Claims. (Cl. 213—76)



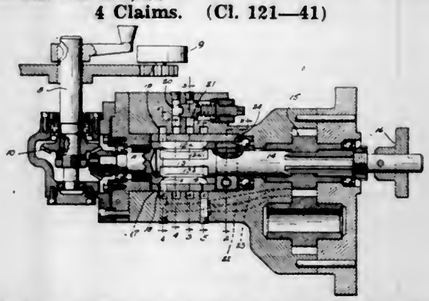
1. In combination, a car coupler head, a dog in the head to engage with a part on a second head to lock the two heads together, and a mounting for said dog to permit it to be brought into wedging engagement with the said part of the second coupler through simultaneous swinging and bodily radial movement and to be shifted radially away from said part before beginning a swinging movement in unlocking.

2,164,970
RIVETING TOOL
Paul Van Sittert, Cleveland Heights, and John H. Engeln, Cleveland, Ohio, assignors to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application September 10, 1937, Serial No. 163,252
11 Claims. (Cl. 121—21)



1. In a tool of the character described, a cylinder having a fluid actuated hammer reciprocable therein, a valve casing having motive fluid admittable therein, a valve within said casing alternatively controlling the admission of the motive fluid into both ends of said cylinder for actuating said hammer, means on said valve having motive fluid admitted thereon for maintaining said valve in open position relative to one end of said cylinder as long as motive fluid is admitted into said casing, and other means for automatically shifting the valve into open position relative to the other end of said cylinder immediately after the admission of the motive fluid into said casing has been cut off.

2,164,971
APPARATUS FOR GOVERNING MOVEMENT OF HAND CONTROLLED POWER TRANSMISSION
Harry F. Vickers, Detroit, Mich.
Continuation of application Serial No. 26,800, June 15, 1935. This application July 28, 1938, Serial No. 221,838
4 Claims. (Cl. 121—41)



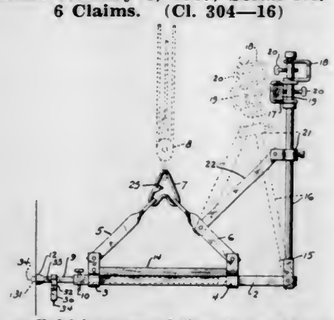
1. In a power transmitting system of the type having a driven member of relatively large mass, power amplifying means directly connected to said mass for controlling the actuation thereof, a source of power supply, and a rotary hand operated control member for controlling the flow of power to said power amplifier and the actuation of said mass, a follow up unit interposed between the power supply and power amplifier, said unit comprising relatively freely movable parts, one of said parts being connected to the control member and another part being connected to the power amplifier, said connection between the control member, follow up unit and power amplifier being such that the resistance to movement of the control member is practically zero, and an inertia governor operatively connected to said hand control member for governing the rate of acceleration applied to said control member by the operator, the effective mass of said inertia governor being proportioned to the relative available power for actuating said driven member.

2,164,972
BLOWPIPE
Robert L. Wagner, Niagara Falls, N. Y., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application June 26, 1937, Serial No. 150,530
19 Claims. (Cl. 158—27.4)



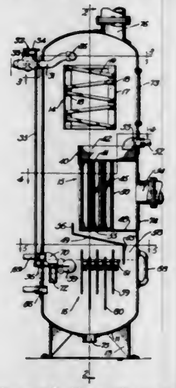
2. In a blowpipe, a body, a valve block at the rear end of said body, a head block at the forward end of said body, a stem, and mechanism associated with said valve block and extending ahead of said head block for gripping said stem and clamping the stem to said head block.

2,164,973
SCAFFOLD HANGER
Allen D. Webster, Daly City, Calif.
Application January 3, 1939, Serial No. 249,054
6 Claims. (Cl. 304—16)



1. A scaffold hanger of the character described comprising a crossbar, a pair of lugs on the bar adjustable and tiltable thereon to receive between them planks of varying widths, a link hung from a suspending device, a pair of arms suspended from said link, and a pivotal connection between the lower end of each arm and an adjacent lug whereby when weight is applied to the plank the arms tend to tilt and pull the lugs toward each other to clamp and secure the plank between them.

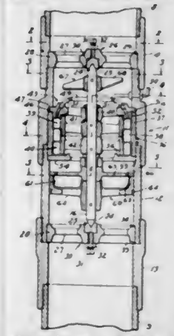
2,164,974
FEED WATER HEATER AND SCRUBBER
Edwin C. Rudolf Weisgerber, Los Angeles, Calif., assignor to Master Separator and Valve Company, Los Angeles, Calif., a corporation of California
Application September 30, 1935, Serial No. 42,877
7 Claims. (Cl. 261—7)



2. In a device of the character described, a liquid separator comprising a plurality of skimming cups arranged over a horizontal area of a structure and with their upper edges in a common horizontal plane, draw-off pipes, one for each cup, and intermediate vertical baffle plates disposed between the cups and in staggered relation to each other.

4. In a device of the character described a heat exchange structure including an outer shell to which steam is delivered in horizontal flow, an upper and lower plate at opposite sides of the path of said steam flow, a tray carried by the upper plate and into which liquid may accumulate, a plurality of water tubes extending vertically between the plates and being in communication with the upper tray whereby water may pass therethrough in heat exchange relationship to the transversely moving steam, said tubes being deformed to form a V-shaped groove presented to the inflowing steam and enclosed vertical passageway therethrough, and perforate baffle plates disposed between the rows of water tubes in the path of travel of said steam to direct the same into the V-shaped grooves of each succeeding row of water tubes.

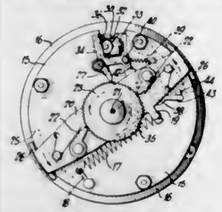
2,164,975
DEEP WELL PUMP
Winfred S. Whitcomb, Riverside, Calif.
Application May 11, 1937, Serial No. 141,967
4 Claims. (Cl. 103—5)



1. In a pump structure of the kind described, in combination, an upstanding tubular pump casing, vertically spaced bearings secured in said casing, a shaft having end portions journalled in said bearings centrally of said casing, a turbine structure having rotary members secured to said shaft, there being a space for liquid upflow through said turbine structure, a liquid lifting propeller secured to said shaft in an upwardly spaced relation to said turbine structure, an air distributing pipe extending around said shaft between said propeller and turbine structure, means to supply air under pressure to said pipe, a plurality of air outlet tubes leading from said pipe at various points around said shaft, and a spider like frame having a rim portion supported by said casing, said rim portion supporting said outlet tubes and pipe and having passages through which the air passes from said tubes to said turbine structure.

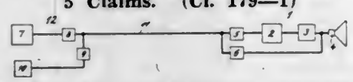
2,164,976
AUTOMOBILE CLOCK
Richard H. Whitehead, New Haven, and Jacob Frederick Langbein, Hamden, Conn., assignors to The New Haven Clock Company, New Haven, Conn., a corporation of Connecticut
Application August 10, 1936, Serial No. 95,074
14 Claims. (Cl. 185—40)

1. A device of the character described comprising in combination a frame, a magnet, carried by said frame, a driven shaft centrally disposed with regard to said magnet and said magnet having pole pieces terminating in the surface of a cylinder about said shaft, a lever oscillating about said shaft and having armature tips to cooperate with said pole pieces, a main spring for moving said arm in one direction, a contact point carried by said frame, a contact arm pivoted to said lever in position to engage said contact point as said contact lever swings about its own axis, a dog pivoted to said frame having an abutment in position to engage said arm when said lever is moved against said main spring, to force said arm away from said contact, a spring connecting said dog and said arm to urge said arm into contact with said contact point, and to urge



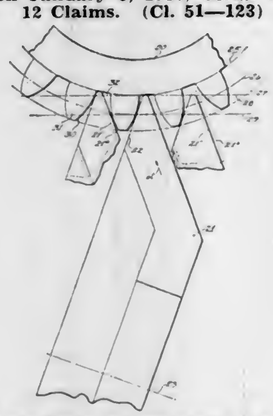
said abutment against said arm when said lever is moved against the main spring and having such leverage that said abutment may force the arm free from said contact point.

2,164,977
LOUDSPEAKER ARRANGEMENT
Alfred Wiessner, Berlin, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application December 17, 1937, Serial No. 180,338
In Germany December 22, 1936
5 Claims. (Cl. 179—1)



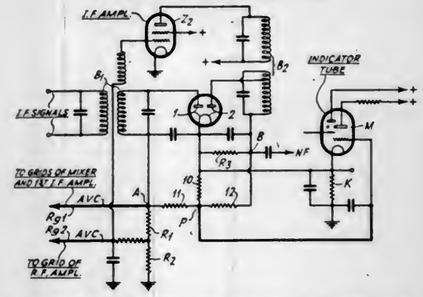
1. Loudspeaker arrangement comprising: a transmitter including means for producing a modulated carrier current and means for producing a control current; a receiver remote from said transmitter and including a sound emitting apparatus, means for demodulating said carrier current, means responsive to said control current and adapted to render said receiver operative; means to convey said carrier current and said control current in one direction from the transmitter to the receiver, and further means for conveying a revertive signal in the opposite direction.

2,164,978
METHOD OF AND MACHINE FOR GRINDING GEARS
Ernest Wildhaber, Irondequoit, N. Y., assignor to Gleason Works, Rochester, N. Y., a corporation of New York
Application January 6, 1937, Serial No. 119,287
12 Claims. (Cl. 51—123)



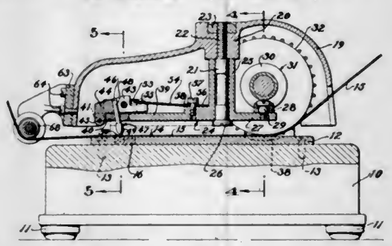
5. In a machine for producing gears, a work support, a grinding wheel having a plane active face extending at right angles to its axis, means for positioning the wheel so that its plane side surface is inclined at other than a right angle to the pitch plane of the gear to be ground, means for rotating the wheel on its axis, means for producing a relative rolling movement between the wheel and work, and means for feeding the wheel depthwise into the work simultaneously and in time with said rolling movement in the direction of the plane side of the wheel so that at one end of the rolling movement, in full depth position, the wheel will extend inside the root plane of the gear.

2,164,979
TUNING INDICATOR CIRCUIT
Karl Wilhelm, Berlin-Tempelhof, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 16, 1938, Serial No. 214,011
In Germany June 4, 1937
6 Claims. (Cl. 250—20)



1. In a signal receiving system of the type including a network tuned to a desired signal carrier frequency, the method of indicating resonance of said tuned network with incoming carrier waves which includes deriving a direct current voltage from rectification of waves of an amplitude below a predetermined intensity value, deriving a second direct current voltage from rectification of said waves upon said amplitude exceeding said value, producing an indication responsive to the resultant of said voltages, and controlling the signal transmission through said network with said second voltage.

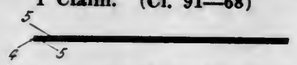
2,164,980
FILM MUTILATOR
Jacob Woermann, Glendale, Long Island, N. Y.
Application December 3, 1937, Serial No. 177,865
14 Claims. (Cl. 33—27)



1. In a film mutilating device, means defining a path for said film through said device, and a cutter contacting the emulsion side of said film and mechanism engaged by said film and asso-

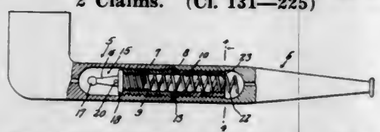
ciated with said cutter for moving the latter in a definite path when said film is moved through said device.

2,164,981
ELECTRICAL CONDUCTOR AND INSULATING MATERIAL THEREFOR
Sterling W. Alderfer, Akron, Ohio, assignor of one-half to Edward D. Andrews, Akron, Ohio
Application October 3, 1936, Serial No. 103,917
1 Claim. (Cl. 91—68)



Dielectric sheet material consisting of an elastic laminated structure composed of a film of rubber hydrohalide and adherent coatings of vulcanized latex rubber bonded to opposite faces thereof throughout its area.

2,164,982
SMOKING PIPE
Marcel Beaudry, Irasburg, Vt.
Application September 13, 1938, Serial No. 229,727
2 Claims. (Cl. 131—225)

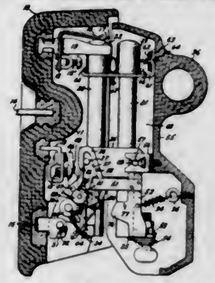


1. In a smoking pipe construction of the class described, a bowl having a stem portion, a complemental stem portion provided with a mouthpiece, adjacent ends of said stem portions being disposed in separable abutting relationship, companion bushings fitted into the respective stem portions, the adjacent ends of said bushings being separably keyed together.

2. As a new article of manufacture and a component part of a pipe construction, a bushing provided at one end with a collar having keeper notches, a second bushing having keying detents fitting removably in said notches, the second bushing being provided at its outer end with detents radially projecting into the bore thereof, a filtering unit having a threaded extension projecting into the first named bushing, a coiled spring having predetermined convolutions fastened on the threads of said extension, the convolutions at the opposite end of said spring being cooperable with said detents in the manner and for the purposes described.

2,164,983
ELECTRIC CUT-OUT
Ralph S. Bennett, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 14, 1937, Serial No. 153,529
36 Claims. (Cl. 200—126)

1. A circuit reclosing fuse unit adapted for removable installation in an electric cutout or like casing having spaced contacts mounted therein; said unit comprising in combination a door adapted to close an open side of a cutout or like casing, a plurality of fuse holders, means supporting said holders in substantially parallel side by side relationship on the inner side of said door, said holders being prevented by said supporting means from substantial lateral movement relative to each other, means for connecting a fuse link in one of said holders between spaced contacts in an electric cutout or like casing, means including a movable contact element operable for connecting a fuse link in another of said holders between spaced contacts in an electric cutout or like casing, means for latching said contact element normally in open circuit position, said latching means being releasable in response to operation of a fuse link in said one



holder, means operable upon release of said latching means for effecting operation of said contact element to circuit closing position, and timing mechanism connected for delaying the operation of said contact element to circuit closing position.

2,164,984
TIRE RIM
Winfield S. Brink, Akron, Ohio, assignor, by mesne assignments, to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application June 20, 1931, Serial No. 545,765
7 Claims. (Cl. 152—411)



1. In a tire rim the combination of a drop center rim with an outer peripheral channel, said rim having an outer peripheral marginal flange of normal height on one side thereof and a relatively low outer peripheral marginal flange on the opposite side, and a removable ring mounted upon the rim beside the low flange, said ring being formed with diametrically opposed recesses on its inner periphery, each of said recesses extending for not more than one-fourth the inner circumference of said ring, each being constructed to span said low marginal flange in the removal from or application of the side ring over the low flange of the rim without unduly distorting said side ring, said spanning recesses serving to guide the side ring in its motion during removal from or application upon the rim, said drop center portion of the rim forming means into which the ring can be moved to permit said operations.

2,164,985
SIGN
Alfred R. Cardarelli, Clear Lake, Iowa, assignor of one-fourth to Edward R. Boyle, Clear Lake, Iowa
Application September 13, 1938, Serial No. 229,748
1 Claim. (Cl. 40—125)

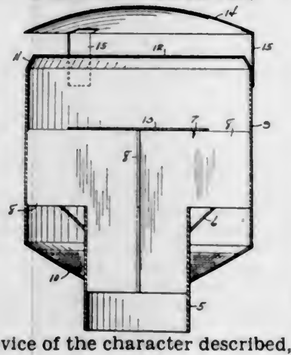


A sign of the class described comprising a flat soled base, a mirror hinged to said base adjacent one edge thereof for swinging movement in opposite directions thereon flat against the base and into upright position, respectively, and having a front face coated with paint defining a warning legend on said face, means for retaining the mirror in upright position comprising a pair of toggle links at each side of said mirror pivoted thereto and to said base, and a handle on said base at the edge thereof opposite said one edge for carrying the sign when the mirror is swung flat against said base.

2,164,986
PROCESS FOR THE TREATMENT OF CRUDE CALCIUM CYANAMID
George E. Cox, Niagara Falls, N. Y., and Walter G. McBurney, Niagara Falls, Ontario, Canada, assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application May 14, 1937, Serial No. 142,633
6 Claims. (Cl. 23—239)

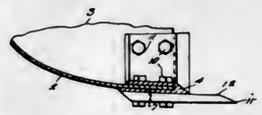
1. A method of granulating calcium cyanamid which includes the step of adding a sugar containing liquid to fully hydrated non-granular cyanamid, the amount of sugar being insufficient to act as a binder, the amount of liquid being sufficient to moisten the cyanamid, and passing the moistened material through squeeze rolls to form a flake, breaking up the flake into rough granules, tumbling the rough granules upon themselves to round up the same, and drying the rounded granules.

2,164,987
CHIMNEY COWL
Eugene W. Cover, Van, Ark.
Application August 17, 1938, Serial No. 225,423
2 Claims. (Cl. 98—66)



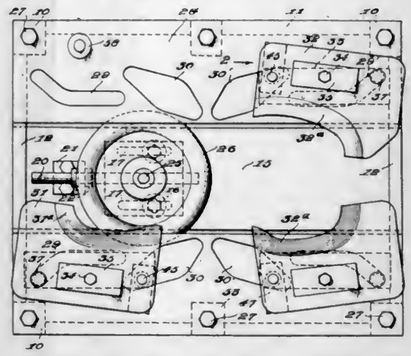
2. A device of the character described, comprising, a sleeve adapted for mounting on a chimney, a cylinder of a larger diameter than said sleeve and fashioned with a perforated bottom receiving said sleeve and connected thereto, a pair of oppositely extending and centrally connected partitions arranged in said sleeve and extending therefrom, said partitions fashioned with wings engaging said cylinder, a baffle disk mounted on said partitions and spaced from said cylinder, spark arresting means extending across the top of said cylinder, and a protective cover spaced above said cylinder and connected to the latter.

2,164,988
CLAMSHELL BUCKET
Charles P. De Biasi, Noank, Conn.
Application October 22, 1938, Serial No. 236,543
1 Claim. (Cl. 37—141)



A clamshell bucket for excavators having a flat bottom and sides forming a front edge, and a combination tooth and cutting edge assembly comprising a flat bar conforming in shape to said cutting edge and longitudinally slit throughout one edge thereof to fit over said edge of the bucket along the entire length of the same, the opposite edge of said bar being beveled, whereby said bar provides a reinforced cutting edge for the bucket, a plurality of flat bar-like teeth on the under side of said bar integral therewith and arranged in laterally spaced relation to extend therefrom beyond and below said cutting edge, and bolts passing through said teeth, bar and bucket.

2,164,989
APPARATUS FOR FORMING SHOES OF THE PREWELTED TYPE
Tobias H. Erline, Frank U. Ditzler, and Harold B. Koch, Lititz, Pa.
Application June 20, 1938, Serial No. 214,822
9 Claims. (Cl. 12—12)

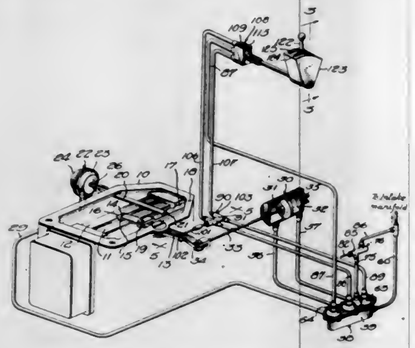


1. A machine for use in the manufacture of prewelted shoes comprising a plurality of movably mounted wiper plates, each of said plates comprising means for engagement between the welt and upper of a shoe forming an outwardly convexed leveling support for the welt upon application of the outsole to the shoe.

2,164,990
GEAR SHIFTING MECHANISM FOR MOTOR VEHICLES

Henry W. Hey, Richmond, Va., assignor to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia

Application October 5, 1936, Serial No. 104,139
17 Claims. (Cl. 74—334)

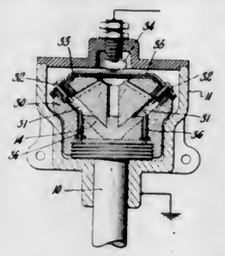


1. A gear shifting mechanism for a motor vehicle having a transmission provided with a plurality of shifting members movable different distances to provide different gear ratios, comprising means for selecting said shifting members for actuation, a differential pressure motor having a pressure movable member for moving the selected shifting member, valve mechanism for creating a differential pressure on opposite sides of said movable member, and means operative when the selected shifting member reaches a gear position, regardless of the distance of travel of such shifting member, for equalizing pressures on opposite sides of said movable member.

2,164,991
SPEED CONTROLLED SWITCH

Jack G. Ingres, Detroit, Mich., assignor to Vaco Products, Inc., Jersey City, N. J., a corporation of Delaware

Application April 15, 1937, Serial No. 137,008
1 Claim. (Cl. 200—80)

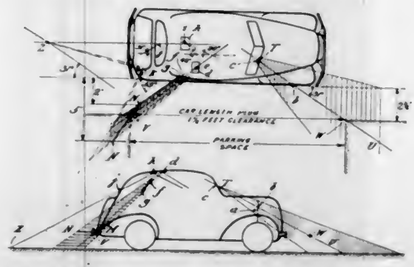


In a speed controlled switch, the combination of a rotatable housing having a central cavity therein partially filled with mercury, said cavity connecting with outwardly and upwardly extending passageways, inwardly and upwardly directed passageways connected near the outer ends of the first passageways, and a plurality of contacts adapted to be in contact with the mercury at certain speeds of rotation and to be out of contact with the mercury at other speeds of rotation.

2,164,992
SYSTEM FOR PARKING VEHICLES

Arnold J. Isbell, Pensacola, Fla., assignor of one-half to Mary Elizabeth Arnold Isbell, Chicago, Ill.

Application November 20, 1937, Serial No. 175,711
16 Claims. (Cl. 88—86)



7. In an automotive vehicle, means for directing the driver in parking said vehicle comprising marker means on the windshield thereof and second marker means fixed to the front right splash guard thereof along a line having a horizontal angular component with respect to the longitudinal axis of said vehicle and a vertical angular component with respect to the ground; third marker means on the rear window of said vehicle, and a mirror having fourth marker means thereon mounted on the ceiling of the body of said vehicle, a line through said third and fourth marker means intersecting the ground rearward of said vehicle at a point; and fifth marker means on the right hand rear window of said vehicle, and a second mirror having sixth marker means thereon mounted on the ceiling of the body of said vehicle, a line through said fifth and sixth marker means having a selected horizontal angular component with respect to the longitudinal axis of said vehicle at a predetermined position with respect to the length of said vehicle and a predetermined vertical angular component with respect to the ground; the line of the first mentioned and said second marker means being disposed in selected longitudinal position with respect to the line of said fifth and sixth marker means, so that selected points correspondingly located along said lines with respect to ground are spaced with respect to each other a distance at least equal to a minimum desired length of parking space; and said point on the line of sight of said third and fourth marker means being located on an arc centered at the left turning center of the vehicle and beyond a distance equal to a minimum desired clearance, a tangent to said arc in the same horizontal angular relation as the line of the first mentioned and said second marker means with respect to the longitudinal axis of said vehicle determining the said point by the point of tangency thereof on said arc.

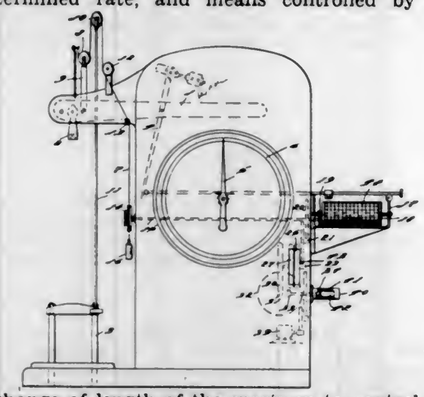
2,164,993
RATE OF STRAIN INDICATOR

Robert B. Lewis, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 17, 1934, Serial No. 744,305
8 Claims. (Cl. 265—2)

1. In a rate of strain indicator, a graduated member driven in synchronism with change in length of a specimen under test, a second graduated member in proximity to said first graduated member for visible comparison with it,

means to drive said second member at a predetermined rate, and means controlled by the

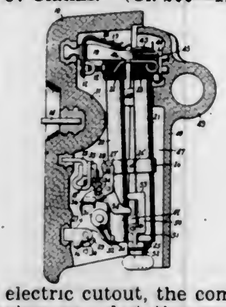


change of length of the specimen to control the drive of said first member.

2,164,994
ELECTRIC CUT-OUT

George F. Lincks, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application July 14, 1937, Serial No. 153,508
37 Claims. (Cl. 200—126)



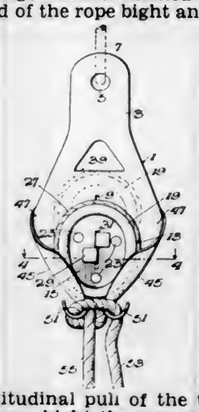
1. In an electric cutout, the combination with a casing having spaced stationary contacts, of a circuit reclosing fuse unit removably mounted in said casing and comprising a door for the casing, a fuse holder assembly attached to the inner side of said door and including a plurality of fuse holders and means supporting the holders in fixed juxtaposition relative to each other, means arranged to connect a fuse link in one of said holders between said contacts, a fuse terminal arranged for connection with a fuse link in another of said holders and being normally isolated from one of said contacts, and means operable for effecting reclosure of a circuit including said contacts through a fuse link in said other holder upon operation of a fuse link in said one holder, said last mentioned means including a contact element movable relative to said fuse holder assembly for establishing electric connection between said isolated fuse terminal and said one of said contacts.

2,164,995
LINE TIGHTENER AND FASTENER

Hjalmer A. Linman, Minneapolis, Minn.

Application November 29, 1937, Serial No. 177,144
6 Claims. (Cl. 24—136)

4. A rope fastener adapted to directly receive a bight of the rope to be fastened, comprising a body plate having laterally spaced rope-abutment walls rigid therewith and at their outer ends provided with means rigid therewith and transversely projecting therefrom for holding a rope end of the bight transversely wound substantially around the lower ends of said walls and directly anchored thereby; a wedge member formed to directly fit in the closed end of the rope bight and to sustain the

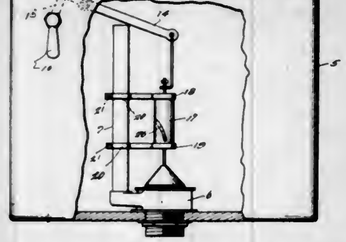


outward longitudinal pull of the transverse portion of said rope bight thereon, said member arranged on said plate between said walls in cooperative relation thereto to clamp and release both lengths of the bight, said member confined to said plate for relative movements.

2,164,996
SELF-GRINDING FLUSHING VALVE ASSEMBLY

Ben. T. Long, Kings Mountain, N. C., assignor of one-half to Bennett A. Smith, Kings Mountain, N. C.

Application August 2, 1938, Serial No. 222,686
2 Claims. (Cl. 4—57)



1. In combination with the discharge pipe, the valve and valve seat, and overflow pipe of a flushing tank, of a tubular guide for the stem of said valve supported from the overflow pipe, a weight member on the valve stem and having a working fit within said tubular guide, and interengaging means on the weight and peripheral wall of said guide for causing a rotation of the valve, its stem and weight incidental to an axial movement of the valve stem through said guide in both directions.

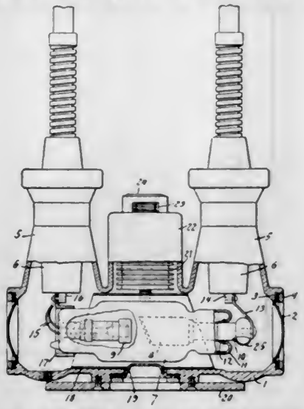
2,164,997
X-RAY APPARATUS

Raymond R. Machlett, Riverside, Conn., assignor to Machlett Laboratories Incorporated, Springdale, Conn., a corporation of Connecticut

Application September 8, 1937, Serial No. 162,839
9 Claims. (Cl. 250—143)

1. An electron discharge apparatus which comprises an electron discharge device having an envelope, an incandescent cathode and an anode

within the envelope, a copper shank leading from the anode through the wall of the envelope, the shank having a heat conductivity sufficient to conduct heat from the anode effectively to the outside of the envelope, a grounded container for the device, a body of oil in the container within which the device is immersed with the



portion of the shank outside the envelope giving up heat to the oil, and a coating on all surfaces of the shank which would otherwise be in contact with the oil, the coating being of a material with which the body of oil will remain in contact at the temperature of operation without degeneration and loss of dielectric value.

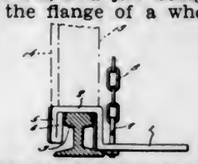
2,164,998
CURTAIN FABRIC
Harold T. Marshall, Sharon, Mass., assignor to The Kendall Company, Walpole, Mass., a corporation of Massachusetts
Application November 10, 1937, Serial No. 173,874
2 Claims. (Cl. 28—1)



1. A cloth bolt consisting essentially of a web of curtain fabric from which lengths may be cut off suited to the requirements of individual purchasers, the opposite longitudinal marginal portions of said web being folded over and creased at the lines of fold, said folded over portions each being of suitable width for a hem designed to extend along a vertical edge of the curtain, said web being doubled longitudinally and one of said margins being folded outwardly and the other inwardly whereby both folded over margins, when the web is opened, will lie upon the same side of the goods.

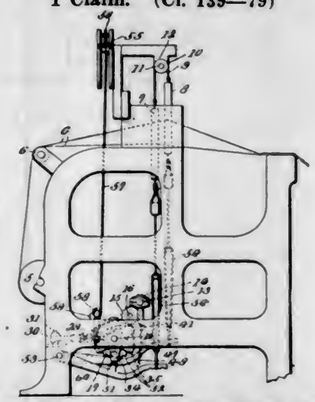
2,164,999
MINE CAR SCOTCH
Charles H. Mead, Beckley, W. Va.
Application December 23, 1938, Serial No. 247,539
1 Claim. (Cl. 104—257)

A mine car scotch formed from a single bar of metal of uniform dimensions throughout and including a substantially U-shaped jaw adapted to straddle a rail, said jaw being engageable at one end by the flange of a wheel for twisting



thereby for frictionally clamping the sides of the ball of the rail, and a handle projecting from the other end of the jaw, said one end of the jaw being folded inwardly and upwardly upon itself.

2,165,000
HARNESS CONTROL
Edward Messer, Kannapolis, N. C., assignor to Cannon Mills Company, Kannapolis, N. C., a corporation of North Carolina
Application September 1, 1938, Serial No. 228,065
1 Claim. (Cl. 139—79)

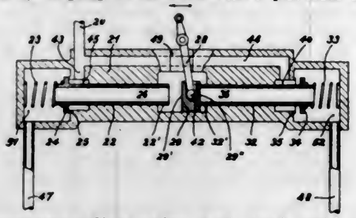


A harness control for a plain loom comprising a shaft, a tubular shaft rotatably mounted on said shaft, a gear fixed to said tubular shaft rotated by a moving part of the loom, a pair of cams actuating the harness frames freely rotatable on said tubular shaft, a collar fixed to said tubular shaft, a slidable sleeve non-rotatably mounted on said collar, said cams having spaced recesses, lugs on said sleeve for engaging said recesses to rotate said cams with said gear, means for aligning said recesses with said lugs and means for withdrawing said lugs from said recesses in order to hold said cams stationary while floated threads are woven in the cloth.

2,165,001
PNEUMATIC CONTROL VALVE
Gustav Meyer, Friedrichshafen-on-the-Bodensee, Germany, assignor to Maybach-Motorenbau Gesellschaft mit beschränkter Haftung, Friedrichshafen-on-the-Bodensee, Germany
Application September 26, 1938, Serial No. 231,843
In Germany July 17, 1937
3 Claims. (Cl. 277—20)

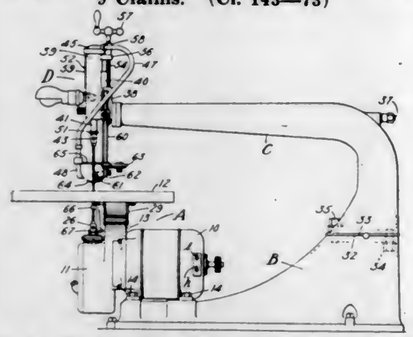
1. A control valve device for the conduits of pneumatically operated devices, comprising a hollow housing having two communicating chambers at each end thereof, a valve seat at the junction of each said pair of chambers, a passage extending from one chamber of each said pair of chambers to the atmosphere, pressure fluid conduits

connected to said respective chambers, a control member slidably mounted in each said passage, each said control member having one end formed to provide a valve portion adapted to engage said corresponding valve seat and interrupt the communication between the chambers of said corresponding pair, said control members being arranged in opposing relation and having opposing ends adjacently arranged, yielding means normally urging each said valve portion against



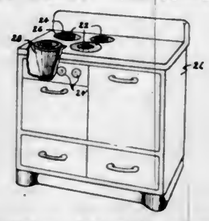
said corresponding valve seat, each said control member having an internal passage communicating with one chamber of said corresponding pair and extending to the opposite end of said member, a valve head arranged between the adjacent ends of said control members and means for selectively actuating said valve head to first engage the adjacent end of one of said control members and close said internal passage therein, and then to move said control member to disengage said valve portion from said valve seat.

2,165,002
TENSIONING MEANS FOR RUNNING JIGSAWS
William Ferdinand Ocenasek, Plainfield, N. J., assignor to Walker-Turner Co. Inc., Plainfield, N. J., a corporation of New York
Application May 20, 1937, Serial No. 143,658
9 Claims. (Cl. 143—73)



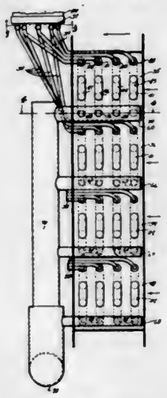
1. A jig-saw machine combining relatively shiftable upper and lower saw reciprocating mechanisms adapted to hold and reciprocate a saw blade, a normally fixed support for each of said mechanisms, power means for actuating one of said mechanisms, resilient means for actuating the other of said mechanisms in opposition, said resilient means also placing the inserted saw blade under tension, and mechanical means positively connecting one of said mechanisms to its support and manually operable to shift the said mechanism toward the other for rendering said resilient means ineffective as a tension applying medium so that a saw blade may be inserted or removed when the parts are free of the effects of the resilient means and thereafter operable during the running of the jig-saw to shift the said mechanism away from the said other mechanism to grade the effectiveness of said resilient means thereby to apply proper tension on the particular blade inserted.

2,165,003
DOMESTIC APPLIANCE
Floyd H. Peters, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 6, 1937, Serial No. 178,212
15 Claims. (Cl. 35—49)



1. An advertising device for stoves and ranges comprising translucent means for simulating a heating element formed of a plurality of concentric ring-shaped heating portions, a first illuminating means for illuminating a ring-shaped section of the translucent means, a second illuminating means for illuminating another ring-shaped section of the translucent means, and switch means for energizing either or both of said illuminating means as desired to simulate corresponding heating arrangements.

2,165,004
EVAPORATOR
Thomas B. R. Peters, Clinton, Iowa, assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application May 6, 1937, Serial No. 141,040
5 Claims. (Cl. 62—126)



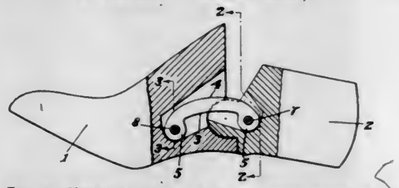
1. In an air cooling system, an air duct, an evaporator comprising a plurality of independent coils extending transversely in said duct and arranged sequentially in the path of air flow whereby said coils are contacted consecutively by the air flowing through said duct, a distributer common to said coils for supplying liquid refrigerant thereto, an exhaust header at the discharge end of said coils, and means at the discharge end of each of said coils for controlling the rate of flow of vaporized refrigerant therefrom to said exhaust header.

2,165,005
METHOD AND APPARATUS FOR FORMING CHEESE
Thorkild Petersen, Elgin, Ill., assignor to Pure Milk Cheese Company, a corporation of Illinois
Application January 31, 1938, Serial No. 187,980
14 Claims. (Cl. 31—46)



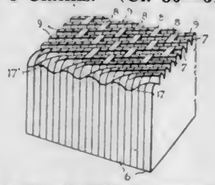
1. Apparatus of the character described for forming blocks of partially drained cheese curd into cylinders adapted to be cut into wheels, including: a plurality of horizontal semi-circular troughs having drain openings therethrough; means supporting said troughs in fixed adjacent relationship; and means for shifting said blocks in said troughs during further draining thereof.

2,165,006
LAST
Louis W. Reinhardt, Brockton, Mass., assignor to Belcher Hinge Company, Stoughton, Mass., a corporation of Massachusetts
Application November 15, 1937, Serial No. 174,626
4 Claims. (Cl. 12—136)



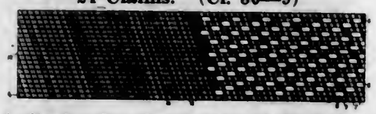
1. In a divided last, a fore part and a heel part having a common pivoting knuckle bearing therebetween, and an aligned narrow longitudinal kerf in each of said parts and constituting a link recess, a resilient link member consisting of plural relatively thin identical resilient, interfacially contacting and freely assembled flat laminae having a total thickness substantially the width of the kerf and notched intermediate their ends to form a central bow portion and end portions shaped thereon as flat cylindrical pivot bearings having eye portions having their pin receiving eyes of the same diameter and aligned to provide closely adjacent cylindrical pin bearings of substantially continuous interior surface, whereby the inter-pintal strain between the fore part and heel part is distributed uniformly along the pin surface from wall to wall of the link kerf without binding or buckling tendencies.

2,165,007
ART OF FORMING RIBBED FASTENERS
Heyman Rosenberg, New York, N. Y.
Application January 14, 1933, Serial No. 651,783
4 Claims. (Cl. 80—61)



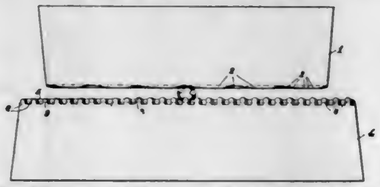
1. In the art of rolling screws and the like ribbed fasteners, rolling a plurality of ribs on a fastener body, and rolling interruptions in the length of the ribs, the interruption in the length of one rib being staggered with respect to the interruptions of adjacent ribs, whereby an uninterrupted portion of a rib laps an interrupted portion of an adjacent rib.

2,165,008
DIE
Heyman Rosenberg, New York, N. Y.
Original application January 14, 1933, Serial No. 651,783. Divided and this application June 2, 1933, Serial No. 674,087
24 Claims. (Cl. 80—9)



1. A die for forming interrupted-rib fasteners comprising a die body with a die face having a milled rib-forming groove divided into spaced sections, and an intermediate ungrooved portion of the die face in the line of and between the groove sections, presenting an abrupt wall at a clearly defined angle to the sides or walls of the groove.

2,165,009
DIE AND THE ART OF FORMING ANCHORAGE INSTRUMENTS
Heyman Rosenberg, New York, N. Y.
Application October 23, 1934, Serial No. 749,643
10 Claims. (Cl. 80—9)



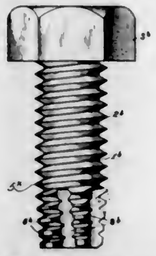
1. In the art of forming screw-threaded fastener instruments, rolling a blank between dies and thereby simultaneously forming thereon a thread with a tapering portion and a series of circumferentially spaced grooves therein intersecting the thread only in said tapering portion and extending into the body of the blank inward of the thread.

2,165,010
ANCHORAGE APPARATUS
Heyman Rosenberg, New York, N. Y.
Application October 23, 1934, Serial No. 749,644
22 Claims. (Cl. 85—47)



1. A threaded fastener of hardened steel adapted to be driven into a bore in iron or steel having a diameter at least as great as the root diameter of the fastener, said fastener including a body, a full depth thread portion on the body of substantially uniform diameter for engaging the work to hold the fastener in place when the fastener is driven home, and a tapered thread portion which increases gradually in diameter through several turns from substantially the root diameter of the fastener to substantially the diameter of the full depth thread, said tapered thread portion comprising a tap section at the smaller end which is intersected by grooves to form a series of cutting faces of progressively increasing height for progressively cutting a thread in the work, and an upper uninterrupted thread expanding section of substantial length for deforming the work material and stressing it progressively to enable the full depth fastener threads to enter the internal thread and hold the walls of the internal thread stressed apart when the fastener is fully applied.

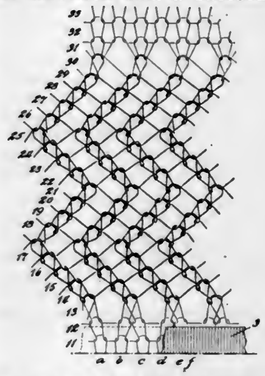
2,165,011
ANCHORAGE APPARATUS
Heyman Rosenberg, New York, N. Y.
Application February 8, 1935, Serial No. 5,661
6 Claims. (Cl. 85—47)



1. A threaded fastener of hardened steel adapted to be driven into a bore in iron or steel having a diameter at least as great as the root diameter of the fastener, said fastener including a body, a full depth thread portion on the body of substantially uniform diameter for engaging the work to hold the fastener in place when the fastener is driven home, and a tapered thread portion which increases gradually in diameter through several turns from substantially the root diameter of the fastener to substantially the diameter of the full depth thread, said tapered thread portion comprising a tap section at the smaller end which is intersected by grooves to form a series of cutting faces of progressively increasing height for progressively cutting a thread in the work, and an upper uninterrupted thread expanding section of effective length for deforming the work metal and stressing it progressively to enable the full depth fastener threads to enter the internal thread and hold the walls of the internal thread stressed apart when the fastener is fully applied, the grooves being formed with rounded leading shoulders and abrupt trailing shoulders, the latter shoulders forming the cutting edges.

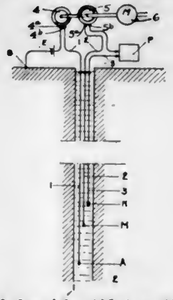
2,165,012
KNITTED FABRIC
Ervin S. Sachsenmaier, Charlotte, N. C., assignor to Larkwood Silk Hosiery Mills, Inc., Charlotte, N. C., a corporation of Delaware
Application November 29, 1937, Serial No. 177,087
1 Claim. (Cl. 66—172)

A stocking having a top section comprising successive plain knit courses of inelastic thread, an immediately following course of inelastic thread having spaced transferred stitches, a group of successive courses of an elastic thread having spaced stitches transferred from the same wales in one direction and a succeeding group



of successive courses of said elastic thread having spaced stitches transferred in the opposite direction.

2,165,013
METHOD AND APPARATUS FOR IDENTIFYING THE NATURE OF THE FORMATIONS IN A BORE HOLE
Conrad Schlumberger, Paris, France, assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware
Application September 10, 1934, Serial No. 743,479. Renewed July 16, 1938. In France October 3, 1933
8 Claims. (Cl. 175—182)



6. A method for identifying the nature of the formations traversed by a bore hole which comprises the steps of flowing a current in the bore hole and measuring the amount of electrical polarization resulting therefrom.

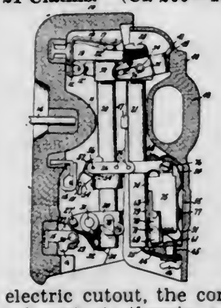
2,165,014
ARTIFICIAL ZEOLITE AND METHOD OF PREPARING THE SAME
Milton J. Shoemaker, Madison, Wis., assignor, by mesne assignments, to Research Products Corporation, Madison, Wis., a corporation of Wisconsin
No Drawing. Application September 30, 1936, Serial No. 103,410
7 Claims. (Cl. 23—113)

1. The method of preparing a base exchange zeolite which comprises forming a gel of a mixture of an alkali metal silicate with an alkali metal aluminate, freezing said gel, thawing said gel and removing mother liquor therefrom, treating the resulting moist granules with an alkali

metal silicate and removing moisture from said granules to indurate the same.

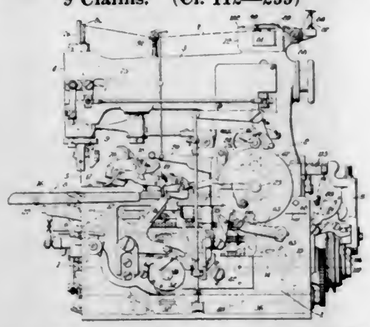
4. The method of preparing a base exchange zeolite, which comprises forming a gel of a mixture of an alkali metal silicate with an alkali metal aluminate, freezing said gel, thawing said gel and removing mother liquor therefrom to form moist granules, treating said moist granules with a water solution of a water soluble salt from the group consisting of the silicates, stannates, tungstates, dichromates and molybdates, of the alkali metals, and drying said granules to indurate the same.

2,165,015
ELECTRIC CUT-OUT
Leroy P. Sohles, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application July 14, 1937, Serial No. 153,568
21 Claims. (Cl. 200—126)



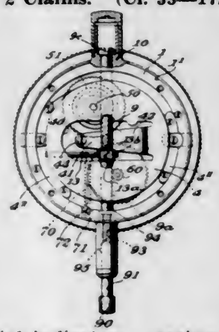
1. In an electric cutout, the combination of a casing, spaced contacts therein, a door for normally closing an open side of the casing, a plurality of fuse holders supported in the casing, said door being mounted for movement relative to said casing and holders, means for connecting a fuse link in one of said holders between said contacts, means operable responsively to operation of a fuse link in said one holder for effecting movement of said door from its normal closing position, and circuit reclosing means operable responsively to movement of the door relative to said casing and holders for completing a connection of a fuse link in another of the holders between said contacts.

2,165,016
TENSION-RELEASER FOR SEWING MACHINES
Edward P. Spaine, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application April 26, 1938, Serial No. 204,273
9 Claims. (Cl. 112—255)



1. In a sewing machine of the buttonhole type, stitch-forming mechanism including a reciprocatory thread-carrying needle, a needle-thread tension-device, a work-clamp, a feed-wheel and connections to relatively move the stitch-forming mechanism and work-clamp into and out of sewing relation and to sew about a buttonhole, a rapid feed-wheel drive, a rapid feed clutch connected between said rapid feed-wheel drive and said feed-wheel, a tension-releaser, and controlling means for said rapid feed clutch connected to operate said tension-releaser.

2,165,017
DIAL INDICATOR
James G. Sisson, Athol, Mass., assignor to The L. S. Starrett Company, Athol, Mass., a corporation of Massachusetts
Application February 5, 1937, Serial No. 124,239
2 Claims. (Cl. 33—172)

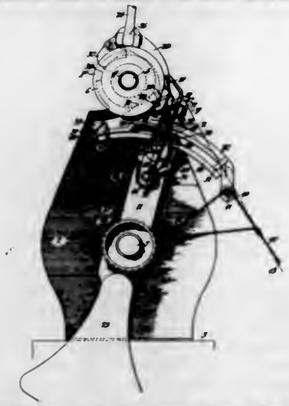


1. In a dial indicator, a casing having upper and lower bearings, an indicator train within said casing including a pinion, an upper spindle section disposed within said casing and having its upper end portion slidable in said upper bearing, a rack on said upper spindle section in mesh with said pinion, a spring acting constantly to urge said upper spindle section downwardly, a lower spindle section slidable in said lower bearing and having its lower end disposed exteriorly of the casing for work contact, a telescopic connection between the lower end portion of said upper section and the upper end portion of said lower section, stop means limiting outward telescopic movement of said spindle sections relative to each other, and a spring of greater strength than said first mentioned spring interposed between said spindle sections and tending constantly to urge said sections relatively apart to their limit of relative outward movement, the bearing engaging portions of said spindle sections being of equal external diameters and the portions of said spindle sections between said bearing engaging portions being of not greater diameter than said bearing engaging portions whereby said spindle sections are adapted to be used in lieu of a one-piece spindle of uniform external diameter throughout its length in a dial gauge having upper and lower spindle bearings of equal diameters.

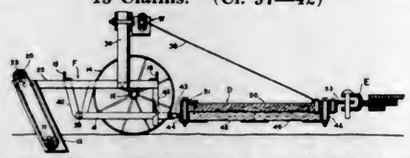
2,165,018
WINDING MACHINE
George N. Taylor, East Providence, R. I., assignor to Universal Winding Company, Boston, Mass., a corporation of Massachusetts
Application February 1, 1937, Serial No. 123,461
13 Claims. (Cl. 242—18)

1. In a winding machine, the combination of a winding-spindle, a reciprocable thread-guide,

a pivoted frame for supporting one of said elements to adapt it to recede from the other element during the growth in the winding, an arcuate track pivoted to a fixed part of the machine and extending concentrically of the pivotal axis of the frame, a dog mounted for pivotal and longitudinal movement on the frame and provided with a slot for receiving the track, said slot formed with biased shoulders on its opposite sides, and means for normally rocking the dog in a direction to cause its shoulders to cam against the opposite curved faces of the track to resist movement of the frame in one direction only.



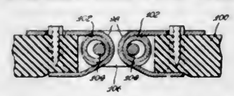
2,165,019
ROD WEEDER
Louis C. Van Patten, Cheney, Wash., assignor to Cheney Weeder Company, Cheney, Wash., a corporation of Washington
Application December 20, 1938, Serial No. 246,822
15 Claims. (Cl. 97—42)



1. In a gang of weeders, a draft frame, plurality of weeding machines, individual draft tongues rockably and tiltably connecting the respective weeding machines to said draft frame, each of said weeding machines having a frame rockably mounted on the axles of a pair of wheels and extending rearwardly therefrom with earth penetrating members rigid with the rear portion of the weeder frame and a weeding rod mounted on the lower ends of said earth penetrating members, each of said weeding machines having a lifting mast mounted on the frame thereof and having a cable connecting that mast with the draft tongue of that weeding machine and having a winch for winding such cable to shorten the span connecting that mast with that draft tongue.

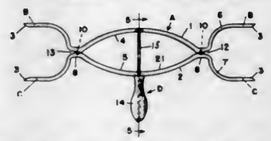
2,165,020
BELT CONNECTOR
George I. Welsh, Dixon, Ill., assignor to Warren A. Shippert, Dixon, Ill.
Application November 20, 1936, Serial No. 111,944
In Canada June 24, 1936
6 Claims. (Cl. 24—33)

1. In a belt connector, a pair of clamping units each having a loop and adapted to be connected with an end of the belt, a cylindrical bearing element positioned within each loop, links positioned adjacent the ends of the loops, to hold the bearing elements inside the loops, bearing members interconnecting the links and arranged in bearing relation with said bearing elements,



said bearing elements and said bearing members having smooth curvatures of different radii so as to roll freely one upon the other, one end of each bearing member being fixedly connected with one link, the other ends of the bearing members having shanks projecting through openings in the other link, and means for keying said other link to said shanks.

2,165,021
CARRIER FOR ROPE, WIRE, AND THE LIKE
Fred W. Zink, Detroit, Mich., assignor to Whitehead Stamping Company, Detroit, Mich., a corporation of Michigan
Application December 27, 1937, Serial No. 181,959
7 Claims. (Cl. 242—96)



1. A reel having two stampings providing an elongated body and rope-receiving portions at opposite ends of said body, said stampings being provided at the juncture of said body and one of said rope-receiving portions with offset portions cooperating with each other to provide a recess for the reception of the knotted end of a rope.

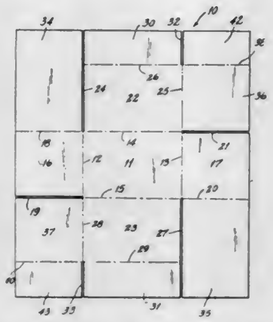
2,165,022
WELDING ROD
William Clifford Anderson, Fort Peck, Mont.
No Drawing. Application April 7, 1937, Serial No. 135,508
4 Claims. (Cl. 219—8)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A sintered welding rod composed principally of ferrous material with not over 3.50 percent by weight of carbon, 3 percent by weight of nickel, 3 percent by weight of molybdenum, 1.50 percent by weight of manganese, 4.50 percent by weight of chromium, .10 percent by weight of sulphur, .30 percent by weight of phosphorus and coated with a mixture consisting of mineral spirits 72.3 percent by weight, 20.9 percent by weight of aluminum, 6.8 percent by weight of water glass.

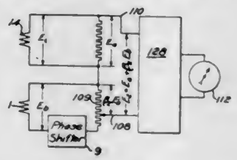
2,165,023
REINFORCED BOX
Watson P. Aull, St. Louis, Mo.
Application May 13, 1937, Serial No. 142,368
3 Claims. (Cl. 229—33)

1. In a box formed from a substantially rectangular blank of material, a bottom therein defined by a rectangle of fold lines, end walls equal in width to the width of the bottom and extending outward from the shorter sides of said rectangle of fold lines to the edges of the blank

a distance equal to the depth of the box, a pair of side wall extensions equal in width to the length of the box and extending outwardly from the longer sides of the rectangle of fold lines to the edge of the blank a distance equal to the depth of the box plus one-half its width, a fold line on each side wall extension spaced from the bottom fold line a distance equal to the depth of the box whereby to divide the extensions into side walls and top flaps, a plurality of slits, one extending inwardly from each edge of the blank to the respective bottom fold along the corresponding side of each of the four walls to separate the walls and to provide opposite the slits on each wall an extension, a fold line along the several sides of the walls opposite the slits and along which the extensions are to be folded, the extensions on the end walls being equal in length to the depth of the box plus one-half its width, and a pair of slits extending inwardly from the edges of the blank on the sides of the side wall extensions opposite the previously mentioned side wall slits to the fold lines demarking the top closure flaps and their attached side walls.

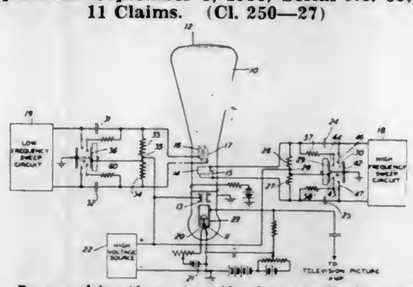


2,165,024
INDICATING BALANCING MACHINE
John G. Baker and Frank C. Rushing, Pittsburgh, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 23, 1935, Serial No. 46,312
26 Claims. (Cl. 73—51)



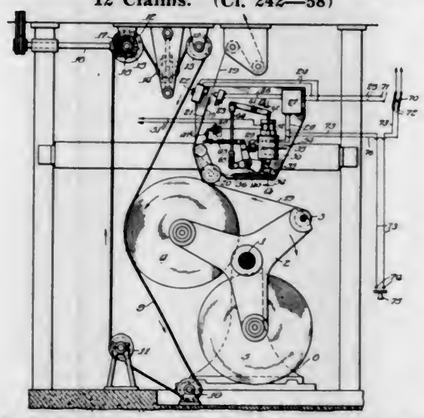
1. Apparatus for balancing rotors, in combination, means for mounting a rotor so that it is substantially free to rotate in space, whereby any arbitrarily chosen point on the geometric axis of the rotor by reason of the unbalance of the rotor will rotate about the inertia axis in a given plane of rotation including said chosen point; means for rotating the rotor at its normal operating speed, means responsive to the amplitude of vibration of the arbitrarily chosen point on the geometric axis of the rotor; and means adapted to select only such portion of the amplitude of vibration of said chosen point as is indicative of the magnitude of unbalance of the rotor in the said plane of rotation, including the arbitrarily chosen point.

2,165,025
SAFETY CIRCUITS FOR CATHODE RAY TUBES
Millard W. Baldwin, Jr., Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 3, 1936, Serial No. 99,321
11 Claims. (Cl. 250—27)



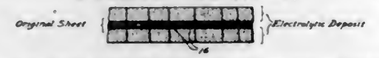
1. In combination, a cathode ray device comprising means for generating a beam of electrons, an anode for accelerating said beam, and means for deflecting said beam, coupling condensers connected to said deflecting means, means for enclosing said condensers, and means operable upon the movement of at least a portion of said enclosing means for discharging said condensers and at a predetermined time thereafter for connecting said anode to ground, said last-mentioned means including delayed-action means for delaying the time for connecting said anode to ground.

2,165,026
DEVICE FOR DELIVERING PAPER TO PRINTING PRESSES
David G. Bernard, Chicago, Ill., assignor, by mesne assignments, to Donald M. Carter, Chicago, Ill.
Application August 31, 1932, Serial No. 631,181
12 Claims. (Cl. 242—58)



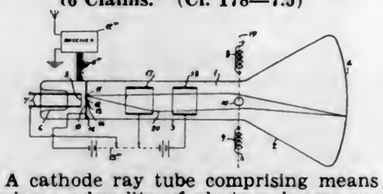
2. A device for delivering paper to printing presses, comprising means for movably mounting a plurality of rolls in position and for connecting the web of the new roll with the web of the expiring roll without stopping the press, a severing device for severing the web of the expiring roll when said connection has been made, a controlling device for the severing device independent of the movement of any part that engages the webs after they have been connected together and being responsive to the increase in thickness due to the connection of the web of the new roll with the web of the expiring roll.

2,165,027
PROCESS FOR PRODUCING MAGNETIC SHEET
Francis Bitter, Cambridge, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 21, 1935, Serial No. 50,862
2 Claims. (Cl. 204—1)



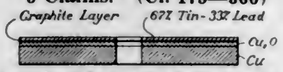
1. The method of producing ferro-magnetic sheet material of high magnetic quality which comprises imparting a preferred grain orientation to a base sheet of material determined by the direction of rolling during its thickness reduction, then increasing this thickness by electrolytically depositing iron on the surface of the base sheet from a bath containing hydrochloric acid, substantially 0.063 gram of ferrous iron per cubic centimeter, 0.0004 gram of ferric iron per cubic centimeter, and a pH value of substantially 4.6, by passing an electrical current through said bath of a density of substantially from 14 to 19 amperes per square foot of base sheet surface and then reducing the thickness of the resulting sheet by rolling to orient the grains of the added material in a direction corresponding to the orientation of the grains in the base sheet.

2,165,028
TELEVISION AND THE LIKE SYSTEM EMPLOYING CATHODE RAY TUBES
Alan Dower Blumlein, Ealing, London, England, assignor to Electric and Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application March 15, 1935, Serial No. 11,186
In Great Britain December 29, 1933
16 Claims. (Cl. 178—7.5)



10. A cathode ray tube comprising means for producing a plurality of electron beams, means for separately modulating the intensity of each of said beams, a screen, electrode means common to all of said beams for concentrating the electrons in each of said beams upon a small spot each on said screen, said spots lying close to one another in substantially a straight line, and a single means common to all of said spots for causing said spots to scan said screen in a plurality of strips lying substantially perpendicular to said straight line.

2,165,029
EXTERNAL CONTACT TO COPPER-OXIDE RECTIFIERS
Langford T. Bourland, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 6, 1938, Serial No. 206,316
3 Claims. (Cl. 175—366)

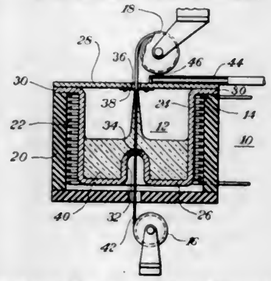


1. An electrical device including a layer of copper oxide and a contact thereto including a layer of an alloy of from 50% to 85% tin and 50% to 15% lead.

2,165,030
PEST CONTROL COMPOSITION
Euclid W. Bousquet, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 20, 1937, Serial No. 143,730
13 Claims. (Cl. 167—34)

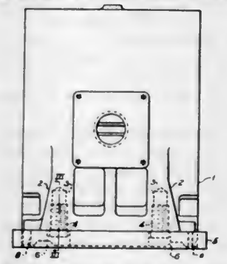
4. A pest-control composition comprising as an essential active ingredient a sulfurized nicotine having a sulfur content of about 17 per cent and in which the sulfur and nicotine have combined in substantially equimolar proportions.

2,165,031
APPARATUS FOR THE MANUFACTURE OF ELECTRICAL APPARATUS
Porter H. Brace, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 6, 1938, Serial No. 200,502
2 Claims. (Cl. 91—32)



1. Apparatus for the manufacture of coils of electrical apparatus comprising, in combination, a reel for carrying a supply of wire, a receptacle containing a supply of viscous vitreous insulating material, means for admitting wire from the reel to the receptacle to pass through the vitreous material to coat the wire, a mandrel disposed adjacent the receptacle for receiving the coated wire as it leaves the receptacle and for winding the wire into a coil, and means associated with the mandrel for controlling the viscosity of the exposed surface of the vitreous material of the wound wire for causing it to adhere to the vitreous coating of additional turns of the wire.

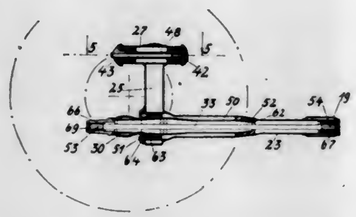
2,165,032
ATTACHMENT OF STEEL FEET TO CAST IRON FRAMES
John L. Brown, Verona, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 23, 1937, Serial No. 181,338
10 Claims. (Cl. 171—252)



1. A frame structure of a relatively brittle

metal having a metal stud secured therein and a supporting member of a relatively tough metal molecularly integrally united to said stud.

2,165,033
CHASSIS OF MOTOR-DRIVEN VEHICLES
Joseph Dauben, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application February 27, 1937, Serial No. 128,149
In Germany February 14, 1936
22 Claims. (Cl. 267—57)



1. In a vehicle, the combination comprising a primary longitudinal beam, a secondary longitudinal beam joined thereto and diverging therefrom at an acute angle, a transverse beam connecting the diverging end of said secondary beam to said primary beam, the said beams being welded together to constitute a rigid triangular frame structure, a wheel carrier, a pair of transverse links for guiding the same relatively to said frame structure for up-and-down movement, a torsion spring co-extensive with said secondary beam, means for attaching one end of said spring to said frame structure adjacent to said transverse beam, and means for connecting the other end of said spring to one of said links adjacent to the joint of said longitudinal beams.

2,165,034
DISUBSTITUTED GUANIDINE SALTS OF METALLIFEROUS AZO DYES
Herbert W. Daudt and Chester W. Hannum, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 14, 1937, Serial No. 153,515
11 Claims. (Cl. 260—147)

1. Guanidine (di-substituted from the class of radicals consisting of alkyl, aralkyl, aryl and cyclohexyl) salts of metalized azo dyes having at least one acid group from the class consisting of sulfonic and carboxy, and having a metal in the range atomic weight from 51.9 to 64.0, inclusive.

2,165,035
HEAT RESISTING ALLOY STEEL
Berton H. De Long and Omar V. Greene, near Reading, Pa., assignors to The Carpenter Steel Company, Reading, Pa., a corporation of New Jersey
Application August 13, 1938, Serial No. 224,702
2 Claims. (Cl. 75—126)

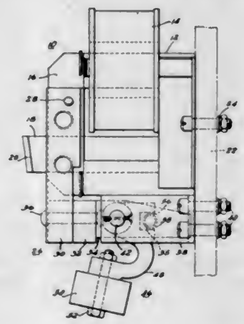
1. A heat resisting ferrous alloy having scale resisting property and unusual strength and resistance to abrasion at high temperatures, containing carbon about .40%, manganese about 8.00%, silicon about 4.50%, chromium about 2.75%, and the balance substantially all iron.

2,165,036
HOT BLAST VALVE
Wyman Eaton and John C. Hayes, Chicago, Ill., assignors to Freyn Engineering Company, Chicago, Ill., a corporation of Maine
Application December 30, 1936, Serial No. 118,297
12 Claims. (Cl. 251—168)



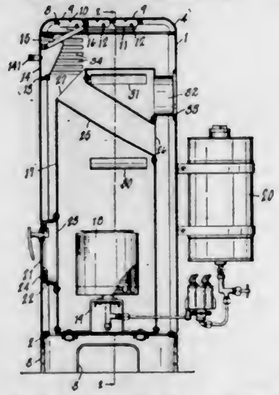
1. In a gate valve, the combination with a casing including an integral housing, of a pair of annular seat members vertically positioned within the housing and held in spaced relation by spaced shoulders formed in the interior wall of the housing, a disc valve located between the seat members and adapted to seat against one of said members when in closed position, said seat members having substantially the same internal diameter but having different overall diameters to permit insertion with the housing from the same side thereof, and means retaining the seat members in place within the housing.

2,165,037
ELECTROMAGNET
Delbert Ellis and George C. Armstrong, Wilkinsburg, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 31, 1936, Serial No. 93,590
9 Claims. (Cl. 175—336)



4. In an electromagnet, in combination, a yoke member, a coil for energizing the yoke member, an armature assembly for completing a magnetic circuit with the yoke member, a pin disposed for pivotally supporting the armature assembly, a pin carried by the armature assembly, and a member carried by the supporting pin of the armature assembly and disposed thereon for limited independent pivotal movement relative to the armature assembly and for movement in a fixed plane with respect to the armature for all positions of the electromagnet to cooperate with the pin carried by the armature assembly to compensate for the tilting of the electromagnet from the vertical to provide for the operation of the armature by a substantially constant magnetic pull independently of the position in which the electromagnet stands, the member also cooperating with the pin carried by the armature assembly to stabilize the armature against movement when subjected to shocks.

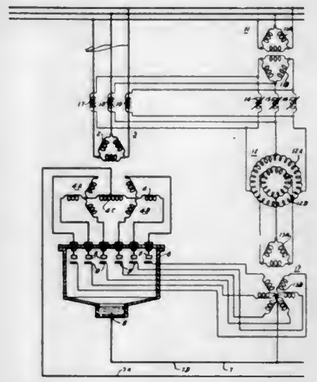
2,165,038
HOT AIR HEATER
Edwin Esson, Kalamazoo, Mich., assignor to Kalamazoo Stove & Furnace Company, a corporation of Michigan
Application January 17, 1938, Serial No. 185,306
3 Claims. (Cl. 126—67)



3. In a cabinet heater, the combination of a casing comprising a wall having an opening adjacent the upper end thereof and a top provided with adjustable louvers, means in the casing for directing heated air in said casing toward said wall from the opposite side of the casing and upwards to and through said opening when the latter is open, a closure for the opening, and connections between said closure and louvers to permit simultaneous adjustment of said closure and louvers.

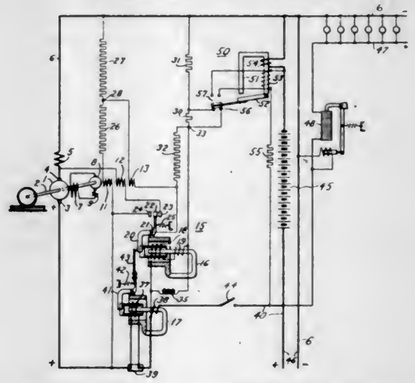
2,165,039
SYSTEM FOR CONTROLLING VOLTAGE OF RECTIFIERS
Robert D. Evans, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 28, 1938, Serial No. 187,477
3 Claims. (Cl. 175—363)

1. In an electric power system, the combination with an alternating-current power circuit, a direct-current load circuit, a transformer connected to the alternating-current circuit, and a rectifier connected between the transformer and the load circuit and provided with control grids, of means including a transformer energized from the alternating-current circuit to establish and to impress a potential upon the grids, phase-shifting means between said transformer and the grids to control the potential applied to the grids, of means including a transformer energized from the supply circuit to establish a potential for the grids, a grid transformer for impressing said potential upon the grids, impedance devices connected in series in the circuit between the two transformers, and means responsive to the load current supplied to the main power transformer



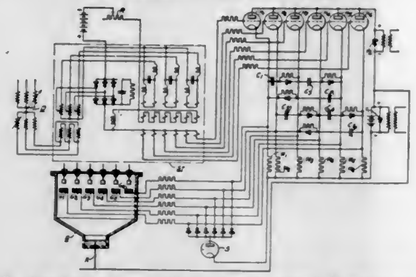
for introducing an additional potential across the impedance devices to modify the potentials for the grids in accordance with and to compensate for the load current.

2,165,040
BATTERY-TAPER RELAY
Donald W. Exner, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 26, 1936, Serial No. 87,365
6 Claims. (Cl. 171—314)



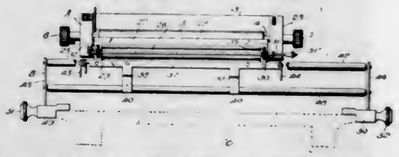
5. A battery system comprising a storage battery, a variable-load circuit connected thereto, means for connecting a variable source of direct current thereto for the purpose of supplying current to said battery and to said load circuit, a voltage regulator for said source, a current-responsive means for so modifying the operation of said voltage regulator as to limit the maximum current delivered by said source, and an automatically operating battery-taper device operative to reduce the effective voltage of said source when the battery is fully charged, said battery-taper device being so constructed and arranged that it will pick up at a much lower value of battery current in the charging direction than in the discharging direction.

2,165,041
CONTROL SYSTEM FOR CONVERTERS
Ludwig Filberich, Berlin-Siemensstadt, Otto Schiele, Berlin-Charlottenburg, and Karl Seethaler, Berlin-Siemensstadt, Germany, assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 27, 1937, Serial No. 171,380
In Germany July 13, 1936
10 Claims. (Cl. 175—363)



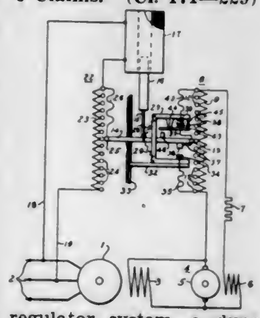
6. An arrangement for controlling multi-anode converters in which controllable auxiliary discharge devices are employed for applying and interrupting the control voltages comprising control grids associated with the anodes of the multi-anode converter, a source of direct-current control potential, means including controllable auxiliary discharge devices corresponding in number to the anodes of the multi-anode device for supplying control impulses in cyclic sequence to said control grids, condensers connected between said auxiliary discharge devices to provide an inverter connection with corresponding cyclic sequence of the ignition and extinguishing impulses, characterized in that the circuit formed of the auxiliary discharge device, the resistor and the direct-current voltage source is connected to the control grids at the cathode of the auxiliary discharge devices, whereas the cathode of the main discharge devices is connected to the resistor by the insertion of a portion of the direct-current voltage.

2,165,042
COPY HOLDER CARRIAGE
Pedro Goicouria Flores, Marianao, Cuba
Application May 1, 1936, Serial No. 77,321
In Cuba March 17, 1936
1 Claim. (Cl. 120—32)



A copy-holder carriage for typewriters, comprising the combination with a line spacing lever on the typewriter, of a frame for mounting upon the typewriter having a pair of spaced horizontal rails, a second frame surmounting the first and having sheaves rolling upon one of said rails and adjustable members adapted to engage with the other rail, there being spaced brackets on said second frame carrying a paper feeding roller provided with manual means for turning the same, manually operated paper release and engaging means, line spacing means for said feed roller, and means engaged by said line spacing lever of the typewriter actuating the line spacing means of the feed roller upon said second frame, an adjustable manual selecting lever pivoted upon said second frame and connected to a slidably movable member, the line spacing means for the feed roller on said frame including a ratchet rotating rigidly with said feed roller, and a pawl engaging said ratchet pivoted upon said slidably movable member, said last mentioned movable member being capable of changing the altitude of said pawl upon manipulation of said selecting lever, and there being a spring urging said pawl into engagement with said ratchet.

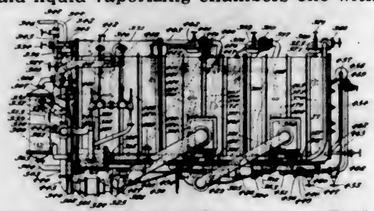
2,165,043
VOLTAGE REGULATOR
Lawrence L. Fountain, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 27, 1937, Serial No. 171,365
6 Claims. (Cl. 171—229)



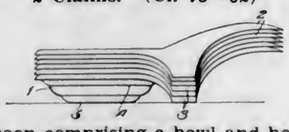
1. In a regulator system, a dynamo-electric machine having a field winding, means responsive to a regulated characteristic of said dynamo-electric machine for governing the excitation thereof comprising a field regulating resistor, electroresponsive means including an armature acting against a biasing force of constant value for varying the effective value of said field controlling resistor and having a varying pull-with-position characteristic, a regulating circuit for said electroresponsive means, means for energizing said regulating circuit at a voltage that is a measure of the regulated quantity, and a recalibrating resistor in said regulating circuit having a plurality of intermediate values, means for gradually varying said resistor throughout those intermediate values in response to changes in the position of said armature throughout its operative range for so recalibrating said electroresponsive means that it will remain in a state of rest in any operative position upon the application of a predetermined voltage to the energizing circuit that is a measure of the desired value of the regulated quantity.

2,165,044
APPARATUS FOR EVAPORATING AND DISTILLING
Benjamin Fox, Wollaston, and Charles E. Ericson, South Braintree, Mass., assignors to Buena Vista Iron Company, a corporation of New Jersey
Application June 17, 1936, Serial No. 85,736
2 Claims. (Cl. 202—174)

1. In an evaporating and distilling apparatus of the type provided with a source of feed liquid and a source of primary heating fluid and having outgoing means for condensates formed in said apparatus, a unitary structure comprising, a plurality of evaporating units, and a distilling unit, said units being separably joined together in series relationship along a horizontal axis with said distilling unit at one end thereof, each of said units comprising a liquid vaporizing chamber and a vapor collecting chamber intercommunicated by fluid conveying means, each of said vapor collecting chambers having a condensate collecting means, fluid conveying means communicating at its inlet in the vapor collecting chamber of said distilling unit with said source of feed liquid and passing successively through the vapor collecting chamber of said distilling unit and the vapor collecting chambers of said evaporating units to an outlet in the liquid vaporizing chamber of the end evaporating unit at the remaining end of said axis, fluid conveying means communicating said liquid vaporizing chambers one with another for feed liquid transfer purposes, fluid conveying means communicating at its inlet with said source of primary heating fluid and passing through the liquid vaporizing chamber of said end evaporating unit to an outlet therein communicating with a said condensate outgoing means, and for each successive unit after said end evaporating unit fluid conveying means communicating at its inlet with the vapor collecting chamber of the preceding unit and passing through the liquid vaporizing chamber of said successive unit to an outlet therein communicating with a said condensate outgoing means, fluid conveying means communicating the condensate collecting means in each of said vapor collecting chambers with a said condensate outgoing means, and vapor exhausting means in operable communication with the vapor collecting chamber of said distilling unit.



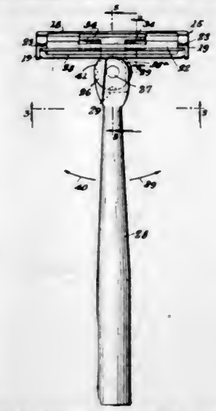
2,165,045
CALIBRATED SELF-SUPPORTING SANITARY SPOON
Elena May Garside, Spokane, Wash.
Application February 16, 1938, Serial No. 190,786
2 Claims. (Cl. 73—62)



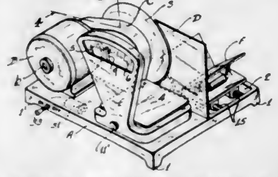
1. A spoon comprising a bowl and handle portions, the bowl being calibrated in terms of different capacities, the handle having one or more downwardly extending lugs terminating in line with the bottom of the bowl, whereby the spoon will remain substantially level when placed upon a flat surface.

2,165,046
SHAVING INSTRUMENT AND BLADE THEREFOR
George Greenstein, Nassau, N. Y.
Application August 12, 1936, Serial No. 95,529
5 Claims. (Cl. 30—51)

1. A razor comprising a head, a blade clamping guard plate pivoted to said head, said head having means for contacting the rear central area and the front lateral portions only of the blade, and said guard plate having means for contacting said blade along a medial longitudinal portion only thereof, and means for positively positioning said guard plate contacting means in relation to said head contacting means.



2,165,047
SLICING AND WEIGHING MACHINE
John C. Gualdoni, Brentwood, Mo.
Application September 7, 1937, Serial No. 162,709
4 Claims. (Cl. 249—62)

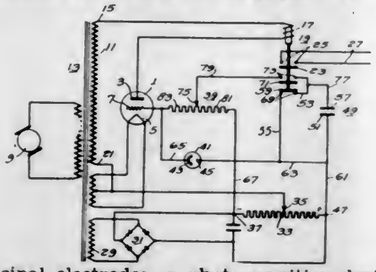


1. In a slicing machine having a substance slicer, an electric motor for driving the slicer, a substance carrier, a shiftably mounted platform for receiving the substance slices, and limit switch means operatively connected to the platform for actuation responsive to movement thereof, control means comprising a toggle switch connected in series with the electric motor and having a manually operable arm for throwing the switch into circuit-closing position, a relay controlled by the limit switch for moving the switch into circuit-opening position, brake means operably mounted on the substance slicer for arresting further movement thereof, solenoid-actuated brake-operating means connected to the brake means, and a second switch connected in series with the brake-actuating solenoid for selectively completing and breaking the circuit thereto, said switch being mounted for actuation by the relay.

2,165,048
ELECTRIC DISCHARGE APPARATUS
Finn H. Gulliksen, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 26, 1937, Serial No. 161,064
9 Claims. (Cl. 250—41.5)

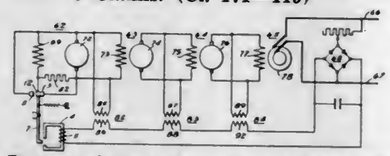
5. In combination an electric discharge device

having a control electrode and a plurality of principal electrodes, a first source of potential, means for deriving a potential from said source and impressing it between said principal electrodes, a second source of potential, means for deriving a potential from said second source and impressing it between said control electrode and one of said



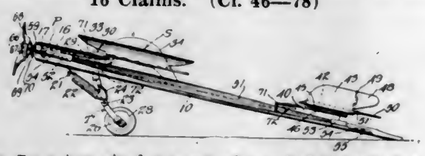
principal electrodes, a photo-sensitive device in circuit with said second source and connected between said control electrode and said one principal electrode, a capacitor and means actuated by a change in the current flow through said discharge device for connecting said capacitor in circuit with said second source and said control electrode.

2,165,049
VOLTAGE REGULATING SYSTEM
Clinton R. Hanna, Pittsburgh, and Kirk A. Oplinger, Verona, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 16, 1937, Serial No. 120,914
9 Claims. (Cl. 171—119)



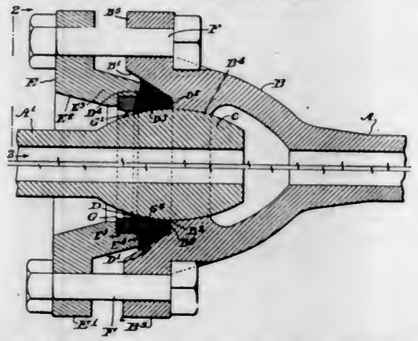
1. In a regulator system, a plurality of electric generators having field windings and arranged in series so that the output from one generator is employed to energize the field winding of the next generator in the series, means for controlling the excitation of said generators comprising a regulator having a winding and means including a circuit for energizing said winding in accordance with a voltage that is a measure of a regulated electrical quantity controlled by said generators, and means for introducing into said circuit stabilizing impulses proportional to the rates of change in the excitation of said several generators.

2,165,050
TOY AIRPLANE
Alfred Harb, Nyack, N. Y.
Application October 6, 1938, Serial No. 233,633
16 Claims. (Cl. 46—78)



8. In a toy airplane, an elongated chassis having spaced tracks, a truck including spaced swingable legs and having wheels rotatably carried by said legs, a propeller mount slidably guided by said tracks longitudinally of said chassis, and cushioning means operatively interposed between said track and mount.

2,165,051
FLEXIBLE PIPE JOINT
Edward Hering, Beverly, N. J., assignor to United States Pipe and Foundry Company, Burlington, N. J., a corporation of New Jersey
Application November 17, 1937, Serial No. 174,952
2 Claims. (Cl. 285—91)

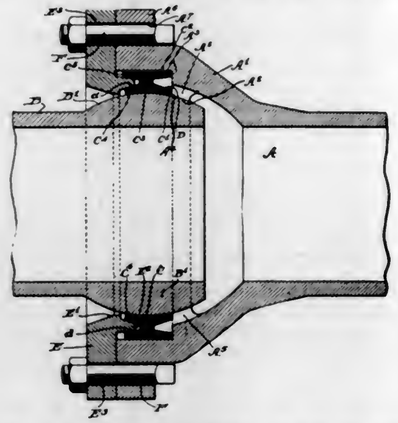


1. A flexible pipe joint of the ball and socket type comprising a bell having at its inner portion a socket in the form of a spherical segment to receive the end of the ball when inserted in the bell, said bell also having a packing chamber located to surround the outer portion of the ball, when said ball is in contact with the socket in the bell, a ball member located at the end of a pipe in contact with the spherical seat formed in the bell and held resiliently in said contact by a gasket of compressed resilient material located in the packing chamber of the bell and extending over the outer surface of the ball to a sufficient extent to form a resilient socket for said outer surface of the ball operative to hold said ball in contact with the socket located in the bell with resilient pressure, said compressed resilient gasket constituting under normal conditions the sole contacting element for the outer surface of the ball, a gland member contacting with the outer end portion of the gasket and adapted to compress and hold said gasket in compressed condition, the inner portion of which is of such diameter and shape as to be spaced from the ball and separated therefrom by a portion of the compressed resilient gasket and also of such internal diameter as will permit of the desired angular movement of the ball in its socket before contacting with the pipe to which the ball is attached and means for drawing and holding the gland to gasket compressing position.

2,165,052
FLEXIBLE PIPE JOINT
Edward Hering, Beverly, N. J., assignor to United States Pipe and Foundry Company, Burlington, N. J., a corporation of New Jersey
Application January 6, 1938, Serial No. 183,649
4 Claims. (Cl. 285—91)

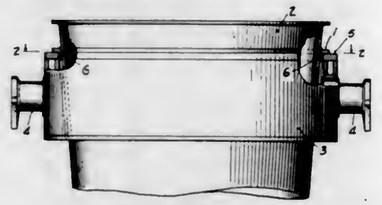
1. A flexible joint of the ball and socket type comprising a pipe bell having a socket for receiving the ball end of a pipe, an annular packing chamber in said bell for surrounding the ball when in place and terminating in an annular

shoulder having a diameter less than that of the ball end; a packing member comprising two united, spaced, flexible, inwardly extending legs located in the packing chamber and engaging the shoulder at the end of the packing chamber, said packing member also having an outwardly extending flexible and resilient leg for contacting the outer portion of the ball, an annular gland member surrounding the ball but out of



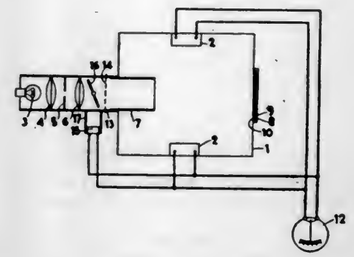
contact therewith, said gland having an annular wedge-like ribbed extension for contacting and compressing the outwardly extending leg of the packing member against the outer portion of the ball so as to form a resilient socket for said outer portion, and means for drawing the gland to and holding it in operative compressive relation to the outwardly extending leg of the packing member.

2,165,053
LADLE AND MEANS FOR SUPPORTING THE SAME
Einar O. Holmberg, Wauwatosa, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application August 7, 1937, Serial No. 157,846
3 Claims. (Cl. 22—81)



1. In combination with a ladle having an inwardly extending taper toward the bottom and an outwardly extending flange near the top thereof, supporting means enclosing said ladle and upon which said flange rests, said means including fillets, tapered to complement the taper of the ladle shell, disposed between said supporting means and said shell and extending circumferentially of the shell a short distance on either side of each trunnion, for transferring part of the weight of the ladle to the supporting means directly through the ladle shell, the remainder of said supporting means being spaced from the ladle shell and unsecured thereto.

2,165,054
APPARATUS FOR COMPARING OR MEASURING THE DIFFUSE REFLECTION OF LIGHT FROM SURFACES
William Arthur Johnson, Birkdale, England, assignor to The General Electric Company Limited, London, England
Application February 5, 1937, Serial No. 124,267
In Great Britain January 6, 1936
4 Claims. (Cl. 88—14)

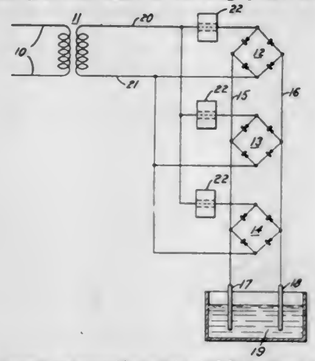


4. In an apparatus for comparing surfaces by diffuse light comprising an integrating chamber having a hole in one wall at which the surfaces to be compared are placed for illumination, a lens tube in the wall of the chamber opposite said hole provided with lenses for projecting a beam of parallel rays of light perpendicularly onto the surface to be illuminated, a plurality of current generating photoelectric elements mounted within said chamber in spaced relation to each other circumferentially of the axis of said beam of light, said photoelectric elements being uniformly spaced from said hole and adapted to be activated by diffuse light coming in direct line from the illuminated surface, a current measuring instrument and means connecting said plurality of photoelectric elements in parallel circuit therewith for utilizing the current generated by activation of the elements for operating said measuring instrument, means for adjustably varying the reading of said measuring instrument comprising an auxiliary current generating photoelectric element having circuit connections in the measuring instrument for delivering thereto a current in opposition to the current from said plurality of photoelectric elements and a plate which in part transmits and in part reflects light falling thereon pivotally mounted on a transverse axis within said lens tube by means of which one portion of the light is so reflected as to fall upon the auxiliary photoelectric element and another portion is transmitted thtrough said plate, the amount of light reaching the said auxiliary photoelectric element being controlled by rotation of said plate.

2,165,055
DRY RECTIFIER PLANT
Wilhelm Kafka, Berlin-Siemensstadt, Germany, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 28, 1938, Serial No. 204,721
In Germany June 29, 1937
1 Claim. (Cl. 175—363)

In combination, a plurality of rectifiers connected in parallel, a source of alternating current, bus bars connected to said rectifiers and to said source of alternating current, an iron core

about at least one of said bus bars comprising a U-shaped portion and a closing yoke and com-



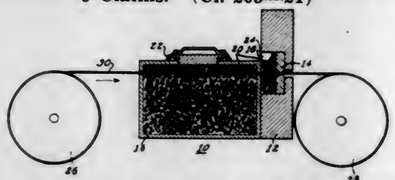
pressible non-magnetic material between the yoke and the leg ends of the U-shaped portion.

2,165,056

METHOD FOR DRAWING SMALL DIAMETER WIRES

Philip R. Kalischer, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 27, 1937, Serial No. 176,853
9 Claims. (Cl. 205—21)



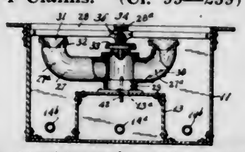
1. A process for drawing small diameter wire from tin comprising, extruding tin into wire of predetermined size, cooling the extruded wire to a temperature ranging from about —5° C. to about 5° C. to increase its tensile strength, cooling a reducing die to a temperature approximating the temperature of the cooled extruded wire, and drawing the cooled extruded wire through the cooled die to effect a reduction in size and produce a small diameter wire.

2,165,057

AIR CONDITIONED SMOKEHOUSE

Alexander S. Kellner, New York, N. Y.

Application April 27, 1938, Serial No. 204,606
4 Claims. (Cl. 99—259)



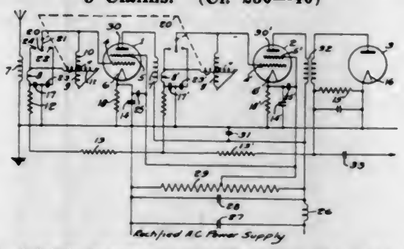
4. An air conditioned smoke house, comprising a hollow body for location beneath a smoke house, a smoke chamber within said body, a hollow arm rotatively supported above said smoke chamber to move across the bottom of said smoke house and having a discharge opening for said smoke, and means for rotating said arm, said arm being of a multiple construction consisting of a long arm and a weighted short arm for evenly distributing the smoke throughout the entire inside of said smoke house.

2,165,058

COUPLING CIRCUITS

Theodore P. Kinn, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 16, 1937, Serial No. 164,163
5 Claims. (Cl. 250—40)



3. A high frequency coupling circuit adapted to operate over a wide frequency range comprising a primary circuit including a primary coil; a secondary circuit coupled thereto including a secondary coil and an inductance of progressively varying electrical characteristics, a fixed capacity and means for progressively connecting said inductance and said capacity to render said secondary circuit progressively resonant throughout said band.

2,165,059

GAME

Jerry C. Koci, Berwyn, Ill., assignor to Chicago Coin Machine Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application November 26, 1937, Serial No. 176,596
8 Claims. (Cl. 273—121)



1. In a game, a playing field, means for propelling a ball thereover, a plurality of switch means projecting above said field and adapted to be engaged one at a time by said ball, means for dividing the interval during which a ball is traveling over said field into "off" and "on" periods, an electromagnetic switch, and means responsive to the engagement of a ball with any one of said switch means during an "on" period for operating said electromagnetic switch.

2,165,060

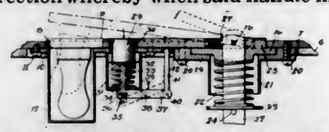
WINDOW-RAISING AND LOCK-RETRACTING MEANS

Carl F. H. Krug, Cincinnati, Ohio

Application March 19, 1938, Serial No. 196,830
5 Claims. (Cl. 74—547)

1. A control handle for a reciprocating and rotating shaft comprising a handle member pivotally connected at one end to one end of said shaft, said handle member having a bifurcated portion straddling said shaft with the ends thereof projecting beyond said shaft in one direction and the remaining part of the handle member

projecting from said shaft in the opposite direction, a knob connected with said remaining part of said handle member, and a spring acting on said shaft tending to pull the handle member in one direction whereby when said handle member



is swung on said bifurcated portion the shaft will be moved longitudinally a predetermined distance against the action of said spring, said handle member being adapted to be swung through an arc of approximately 180° whereby it may be rotated for rotating said shaft.

2,165,061

METHOD OF PRODUCING ELEMENTS FOR DRY BATTERIES

Frank MacCallum, Birmingham, England, assignor to Maxolite Holdings Limited, Kingsway, London, England

No Drawing. Original application July 8, 1936, Serial No. 89,524, now Patent No. 2,154,312, dated April 11, 1939. Divided and this application April 27, 1937, Serial No. 139,201. In Great Britain August 25, 1934
4 Claims. (Cl. 136—122)

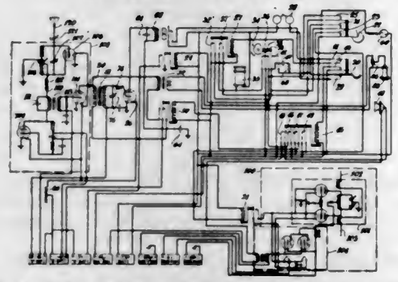
2. A method of producing a carbon zinc element for use in the construction of a dry cell or battery, including the steps of first coating the surface of the zinc plate with a weak solution of carbon black and an adhesive spirit varnish, applying thereto a thin carbonaceous and liquid-proof layer, said layer including a colloidal dispersion of pure carbon in an ammonia-resisting adhesive carrier which will contract on drying, and allowing the carrier to dry and contract to provide good electrical contact between the particles of carbon throughout the carbonaceous layer and between said layer and the zinc plate.

2,165,062

COMMUNICATING SYSTEM

John R. MacKay, West Caldwell, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey

Original application June 11, 1934, Serial No. 730,127. Divided and this application March 19, 1935, Serial No. 11,783
9 Claims. (Cl. 250—20)



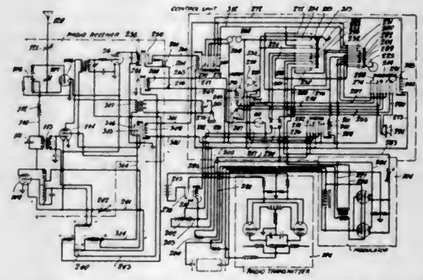
7. A radio wave receiving system comprising a calling device, radio wave receiving apparatus having an output circuit and having means which include a source of oscillations and which are operable during times when incoming waves are not received, and only in response to energized operation of the receiving apparatus when the latter is in proper condition for wave reception, for setting up a characteristic energization in said output circuit in response to oscillations from said source, means controllable by said output circuit for operating the calling device upon absence of the aforesaid characteristic energization in said output circuit, intermittent operating means for intermittently effecting a supply of energy to said receiving apparatus to render the latter operative during the intervals of energy supply and for preventing operation of the calling device at other intervals, and means associated with the aforesaid calling device operating means, and controllable therewith when the calling device is operated, for rendering said intermittent operating means ineffective to prevent operation of the calling device, and for thereby maintaining the calling device in operation.

2,165,063

COMMUNICATING SYSTEM

John R. MacKay, West Caldwell, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey

Original applications June 11, 1934, Serial No. 730,127, and March 19, 1935, Serial No. 11,783. Divided and this application October 14, 1937, Serial No. 169,066
6 Claims. (Cl. 250—6)



6. In a wave signalling system which has means at one station including wave transmitting means and associated modulating means, for sending a modulated calling carrier to a second station, means at the second station including wave transmitting means and associated modulating means, for sending a modulated replying carrier to the first station, and receiving apparatus at each station having a control device responsive to reception of a modulated carrier from the other station, the combination of control means at the first station for rendering the modulating means ineffective to modulate the carrier sent by the transmitting means at said first station, with means controlled by the control device at the second station and in response to cessation of the modulation in the carrier sent by the first station, for rendering the modulating means at the second station ineffective to modulate the carrier sent by said second station.

2,165,064

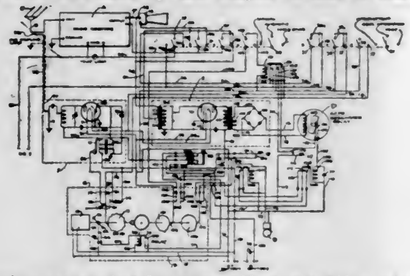
SUPERVISION OF RADIO SIGNALING SYSTEMS

John R. MacKay, West Caldwell, N. J., assignor to Wallace & Tiernan Products, Inc., Belleville, N. J., a corporation of New Jersey

Application June 20, 1936, Serial No. 86,270
29 Claims. (Cl. 250—20)

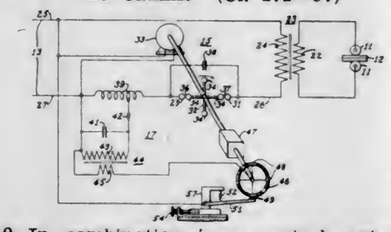
1. In a radio signaling system, an alarm device, a local signal generator, wave receiving ap-

paratus having an output circuit, means for causing said generator to impress a local signal upon the receiving apparatus and for conditioning said alarm device to operate, means for intermittently bringing said last mentioned means into play, means controlled by the output circuit of the re-



ceiving apparatus for preventing operation of said alarm device upon performance of normal receiving operations by the receiving apparatus upon the local signal, and means brought into play upon operation of the alarm device for preventing the intermittent means for interrupting operation of the alarm device.

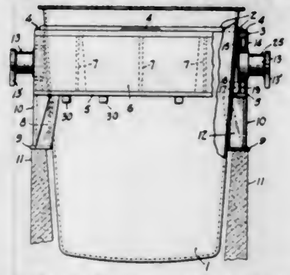
2,165,065
WELDING SYSTEM
Ralph E. Marbury, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 27, 1937, Serial No. 171,312
10 Claims. (Cl. 171—97)



10. In combination in a control system, a source of power, a transformer having a primary winding disposed to be energized from the source and secondary winding disposed in connection with a load circuit, rotary switch means for providing a periodically varying gap in series circuit relation with the primary winding, a resonant control circuit in connection with the rotary switch for applying a high frequency control potential thereto to render the rotary switch conductive, synchronous timing means connected in adjustable relation with the rotary switch for energizing the control circuit for predetermined variable periods of time, thereby connecting the primary winding to the source, and condenser means disposed in shunt relation with the rotary switch to permit rapid cessation of current flow in the load circuit when the control circuit is deenergized.

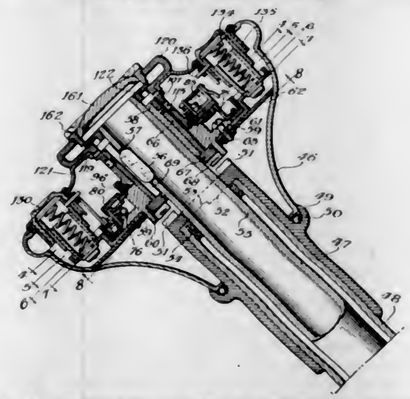
2,165,066
SUPPORTING MEANS FOR LADLES
Howard H. Needham, Wauwatosa, and Henry A. Schmitz, Jr., and Frederick K. Zerbe, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application July 22, 1937, Serial No. 154,970
4 Claims. (Cl. 22—82)

2. In combination with a ladle having a continuous ring surrounding the same and near the top thereof, a support enclosing the ladle comprising a body member, an upper supporting ring



upon which the ladle ring rests and lugs on the top horizontal surface of said upper supporting ring, centering the ladle in said support and spacing the same therefrom.

2,165,067
COMBINATION LOCK
John Pfendner, Chicago, Ill.
Application January 3, 1939, Serial No. 249,037
21 Claims. (Cl. 70—214)

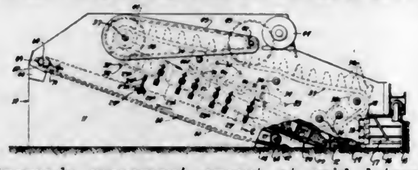


1. A combination lock comprising cooperating locking members at least one of which is movable relatively to the other to lock and unlock said members, a housing for the movable member, a series of depressible buttons mounted in the housing, and operative connections between said buttons and the movable cooperating locking member, said movable member being actuatable, alternately, to locked position by depressing certain predetermined buttons and to unlocked position by depressing the same buttons.

2,165,068
APPARATUS FOR CLEANING BALLAST
Harry W. Protzeller, Fairmont, Minn., assignor to Fairmont Railway Motors, Inc., Fairmont, Minn., a corporation of Minnesota
Application May 2, 1936, Serial No. 77,598
5 Claims. (Cl. 209—324)

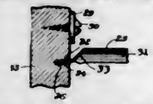
5. An apparatus for cleaning foul ballast which includes an upwardly inclined screen, a conveyor having a portion arranged in operative relation above said screen and including chains and flights between said chains and said screen, said flights having a continuous lower portion contacting the screen and laterally spaced openings

above said portion, the flights being of such height as to prevent material discharging thereover and cooperating with the screen to prevent



retrograde movement except at said laterally spaced openings in the flights, said apparatus including means for vibrating the screen.

2,165,069
FAN
Howard T. Reynolds, Grand Rapids, Mich.
Application January 27, 1937, Serial No. 122,490
1 Claim. (Cl. 230—134)



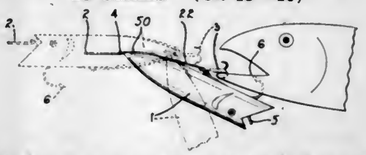
A fan comprising: a plurality of integrally formed blades each having a cross-sectionally arcuate middle portion, comparatively flat opposite end portions and web portions between the middle portion and the end portions respectively for rigidly connecting the same and stiffening the arcuate middle portion; and a pair of spaced wheels having a connecting shaft and at their inner sides a plurality of circularly arranged kerfs corresponding with the end portions of the blades and holdingly receiving the same in the assembled position of the fan's said parts.

2,165,070
CONTAINER FOR TUBES AND BULBS
William A. Ringler, Wayne, Pa., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Original application January 19, 1935, Serial No. 2,559. Divided and this application August 31, 1937, Serial No. 161,725
19 Claims. (Cl. 229—6)



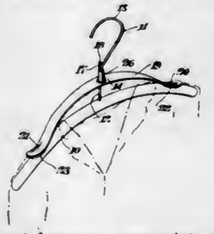
1. A container for radio tubes and the like including, an outer member, an inner member adapted to contain a tube telescoping within said outer member, said outer member having a tubular body portion, end walls fixed to each end of said body portion, one of said end walls having an opening through which the test end of the tube may be projected for test purposes, and collapsible means associated with said inner member operative to engage the adjacent end wall of said outer member to releasably lock the test end of the tube in housed position within the container.

2,165,071
FISH LURE
John H. Saarela, Seattle, Wash.
Application June 1, 1938, Serial No. 211,164
13 Claims. (Cl. 43—46)



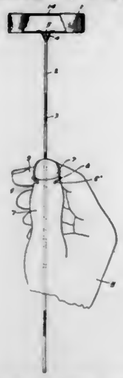
1. A fish lure comprising a solid body of suitable shape, a line extending rearwardly over the head end and back to a pivotal point adjacent the tail end, and secured to the body, a clip on the head end of the body engageable with the line, and releasable by tension in the line, whereby the body may reverse itself and pivot about such pivotal point, a trailing hook disposed at the tail end of the body, means whereon the shank of the hook is guided for pivotal movement and for relative sliding movement, upon reversal of the body, along the belly towards the head end of the body, and a rearwardly directed point spaced beneath the belly, in position to engage from below the jaw of a fish hooked on the trailing hook, as the latter slides towards the head end of the body.

2,165,072
GARMENT HANGER
Charles Sadowsky, New York, N. Y.
Application September 29, 1938, Serial No. 232,282
7 Claims. (Cl. 223—93)
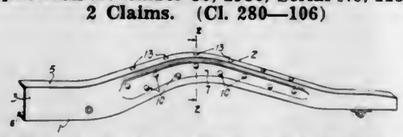


1. A garment hanger comprising a supporting bar, a hook member secured to the middle of the bar and consisting of a straight stem joined to a hooked portion, a sleeve containing an annular grooved portion and an upwardly extending elongated tubular portion and being movably mounted over said stem and abuttable with the said hooked portion at the region of its juncture with the stem for limiting the uppermost position of the sleeve on the stem, the sleeve being closely fitted over the stem and of sufficient length to prevent it from movement across and past said juncture, and a bowed resilient holding member containing an apertured middle portion through which said grooved portion of the sleeve extends and with which it is in frictional engagement whereby the holding member is carried by the sleeve, said holding member containing portions engageable with said bar and adapted to frictionally hold an underlying garment thereupon, the height of said juncture above the bar being such that the resilient member is adapted for pressing engagement with the said bar when the sleeve is in its said uppermost position.

2,165,073
TAPE PHONOGRAPH
Edward Schwartz, New York, N. Y., assignor to The Sound Publicity Corporation, New York, N. Y., a corporation of New York
Application January 18, 1938, Serial No. 185,500
2 Claims. (Cl. 24—265)



1. In a hand-operated phonograph of the character described provided with a tympan and a sound-wave impressed record in the form of a tape, means for anchoring the end of the tape to the tympan comprising a piece of sheet metal bent substantially to V form and formed with a slot in the apex of the V into which slot the tape is adapted to fit, said slot extending parallel to the plane of the V and being of a size so that its edges impinge against and engage the edges of the tape against withdrawal of the tape when the legs of the V are compressed toward one another.

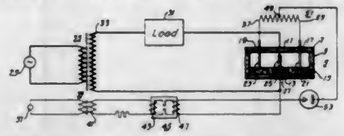
2,165,074
SIDE RAIL FOR VEHICLE FRAMES
Donald W. Sherman, Shorewood, Wis., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application November 30, 1936, Serial No. 113,341
2 Claims. (Cl. 280—106)



1. In an automobile frame, a side rail having a rear kick-up formed of two channel shaped members nested together and having their respective corresponding flanges secured together and having the web of the outer member bent inwardly to engage the web of the inner member, and means connecting said webs together.

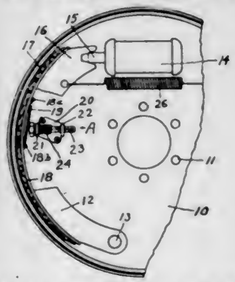
2,165,075
FLAT RECTIFIER AND CIRCUIT
Joseph Slepian, Pittsburgh, and Leon R. Ludwig, Forest Hills, Pa., assignors to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 25, 1937, Serial No. 144,754
13 Claims. (Cl. 175—354)

7. In combination, a discharge device comprising an electrode of the mercury pool type, another electrode to cooperate with said mercury pool electrode, a plurality of ignition electrodes of the silicon carbide type in contact with spaced regions of the surface of said mercury pool electrode, barriers extending between said mercury pool electrode and said other electrode for separating said spaced regions, and coupling means between



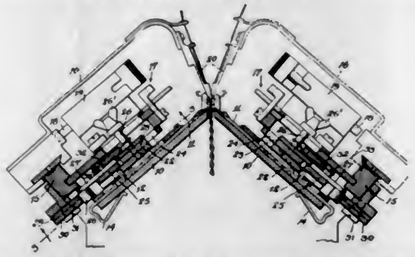
said ignition electrodes, which, when current flows between one of said ignition electrodes and said mercury pool electrode, operates to increase the potential difference between the other ignition electrodes and the mercury pool electrode.

2,165,076
CLEARANCE ADJUSTER FOR BRAKES
George L. Smith, Washington, D. C., assignor to Thermo Brakes Corporation, Washington, D. C., a corporation of Virginia
Application December 22, 1937, Serial No. 181,243
10 Claims. (Cl. 188—79.5)



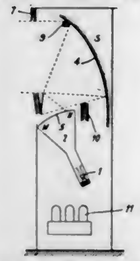
1. In a brake mechanism, a braking member having a brake applying movement, a follow up device constantly tending to follow up said movement, and thermostatic means between said member and said device to arrest said follow up movement.

2,165,077
KNITTING MACHINE
Louis Spordick, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Surftex Inc., Jersey City, N. J., a corporation of New Jersey
Application July 12, 1938, Serial No. 218,724
3 Claims. (Cl. 66—71)



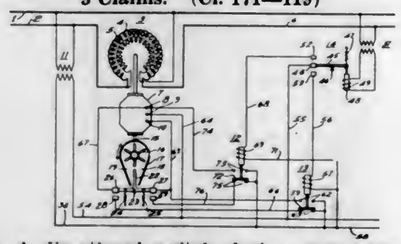
2. An attachment for a knitting machine having a shiftable stitch carriage with stitch cams thereon for controlling the size of the stitches comprising a guide track, means for pivotally mounting the guide track on a knitting machine adjacent the stitch carriage, means for pivotally adjusting the angle of the guide track relative to the path of movement of the stitch carriage, and an arm adapted to be connected to a stitch cam of the knitting machine and provided with a roller adapted to engage the guide track.

2,165,078
TELEVISION RECEIVING SET
Pierre Marie Gabriel Toulon, Puteaux, France, assignor to Radio Corporation of America, a corporation of Delaware
Application November 6, 1936, Serial No. 109,476
In France November 6, 1935
2 Claims. (Cl. 178—7.5)



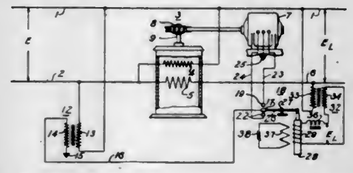
1. A system to produce reflected representations of electro-optical images developed by an electron tube which comprises a first reflecting element adapted to receive the optical image from the electron tube and to reflect the said image according to a first predetermined path of reflection, a second reflecting surface positioned in the path of the first reflection to direct the reflected image along a second predetermined path of reflection, a cabinet having a viewing window, means for locating the reflectors within the cabinet so that the second reflecting path coincides with the viewing window and the second reflecting element is recessed within the cabinet so as to be substantially shielded from illumination external to the cabinet, and an image size masking means positioned intermediate the electron tube and the viewing window to limit the apparent dimensions of the second reflecting element and to confine the developed image to predetermined boundaries.

2,165,079
REGULATING APPARATUS
Lester G. Tubbs, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 30, 1937, Serial No. 139,933
5 Claims. (Cl. 171—119)



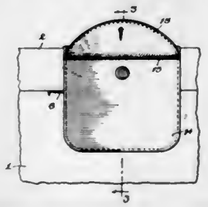
1. A directional switch device comprising an elongated casing providing a chamber that is rounded at one end, a shaft extending within the casing and mounted for rotation therein, an impeller in the rounded end of said chamber that is actuated in accordance with the direction and speed of said shaft, a vane pivotally supported adjacent the other end of said chamber and extending within the casing toward said impeller, said impeller serving to pump fluid from the one side to the other side of said vane for actuating said vane in the one or the other direction in accordance with the direction of operation of said motor, means for biasing said vane to a mid position, and switch means for closing one of two preset circuits upon movement of said vane in the one or the other direction from its mid position in response to the rotation of said impeller.

2,165,080
VOLTAGE REGULATOR
Lester G. Tubbs, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 24, 1937, Serial No. 176,235
6 Claims. (Cl. 171—119)



1. In a regulator for governing an alternating current electric circuit, a primary relay responsive to variations in a regulated quantity for controlling said regulator comprising a soft iron plunger type core and a winding associated therewith, a circuit for said winding, means for impressing a voltage on said circuit that is a measure of the quantity to be regulated, and means for compensating against variations in energization of the primary relay caused by changes in the temperature of the winding comprising a reactor in said winding circuit.

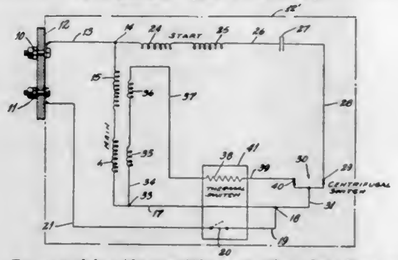
2,165,081
DISAPPEARING POCKET
Max Wald, New York, N. Y.
Application May 10, 1938, Serial No. 207,016
2 Claims. (Cl. 2—247)



1. A garment comprising trousers and the like, said garment having a waist-band with an edge at the top defining the margin of a garment opening adapted to be occupied by the body wearing the garment, a pocket positioned exteriorly of the garment, said pocket having inner and outer walls of which the inner wall is shorter than the outer wall whereby the outer wall has an extension upwardly of the top edge of the inner wall, and means securing the pocket solely at said extension to said edge with the inner pocket wall next to the garment, thereby to support said pocket from said edge with the opening to the pocket contiguous to the inside of the waist-band, said pocket being freely accessible through said garment

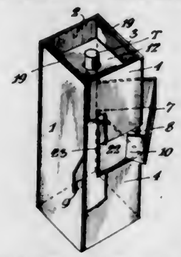
opening for unrestricted bodily swinging back and forth over said margin into and out of said garment opening.

2,165,082
PROTECTED MOTOR
Victor Weber, St. Louis, Mo., assignor to The Emerson Electric Mfg. Co., St. Louis, Mo., a corporation of Missouri
Application August 1, 1936, Serial No. 93,794
2 Claims. (Cl. 172—279)



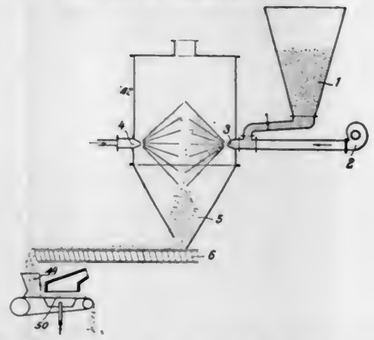
1. In combination with a motor having main and starting windings, a circuit for said main windings, a circuit for said starting windings, means joining said circuits comprising a pair of lines adapted for connection to a power source, a heater element, means connecting said heater element to said main winding circuit so that there is induced from said main windings as a primary through said heater element a potential producing a current proportional to that in said main winding, means for deenergizing said starting winding and said heater element when the motor attains a desired speed of operation, and a switch in one of said power lines actuatable by said heater element.

2,165,083
PAPERBOARD CARTON
Charles P. Wellman, North Haven, Conn.
Application September 15, 1937, Serial No. 163,895
21 Claims. (Cl. 229—6)



1. A container for radio tubes and the like including, an outer tubular member, an inner tube-supporting member slidably positioned within said outer member, and means for limiting the telescoping movement of said inner member within said outer member, said means including, a strap portion extending longitudinally of said inner sliding member, a strap portion extending transversely of said outer tubular member slidably interlocked to said first-named strap portion, and means for fixedly securing said first strap portion to said inner sliding member and said second strap portion to said outer tubular member whereby said strap portions cannot be removed, detached or ruptured without leaving visible evidence of tampering.

2,165,084
PROCESS FOR THE PRODUCTION OF A SINTERED PRODUCT
Helmut Wendeborn, Frankfort-on-the-Main, Germany, assignor to American Lurgi Corporation, New York, N. Y., a corporation of New York
Application May 13, 1937, Serial No. 142,375
In Germany May 20, 1936,
9 Claims. (Cl. 263—53)

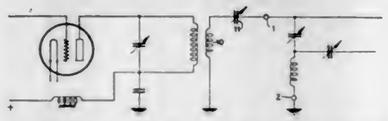


1. The process of producing cement which comprises atomizing finely ground raw materials by a gaseous medium, intimately mixing a liquid medium with said finely ground atomized materials to cause the formation of crumbs therefrom, charging said crumbs in admixture with fuel onto a grate, and forcing air through said charge to cause burning of said fuel and sintering of said crumbs.

2,165,085
ALLOY
Henry L. Whitman, Los Angeles, Calif.
No Drawing. Original application August 26, 1936, Serial No. 98,075. Divided and this application November 13, 1937, Serial No. 174,483
1 Claim. (Cl. 75—163)

An alloy comprising lead 10% to 60%, nickel .7801% to 3.1514%, manganese .0149% to .2017%, iron .0147% to .1%, phosphorus .0112% to .5%, aluminum .0129% to .0882%, tin .0039% to .0027%, magnesium .0001% to .0009%, silver .00005% to .0004% and copper to make up 100%.

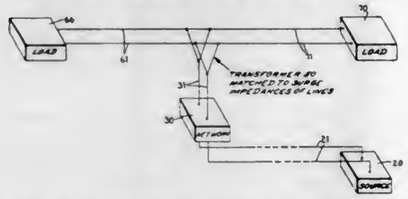
2,165,086
MATCHING NETWORK
Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware
Application November 19, 1936, Serial No. 111,643
Renewed December 21, 1938
13 Claims. (Cl. 178—44)



1. An electrical network adapted to insure that currents traversing the two conductors of a two wire transmission line are of substantially equal magnitude and opposite phase comprising three reactances, two of which are of the same sign and the third of which is of the opposite sign, one of said three reactances being connected in series

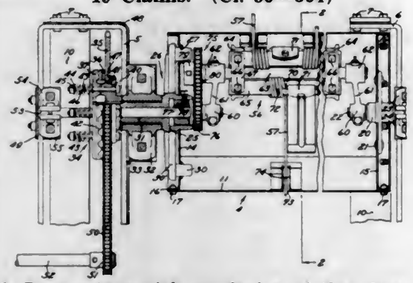
in one of said two wires, another in shunt to said two wires, and the third between one of said two wires and ground.

2,165,087
APERIODIC TRANSFORMER SYSTEM
Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware
Application October 9, 1937, Serial No. 168,223
12 Claims. (Cl. 178—44)



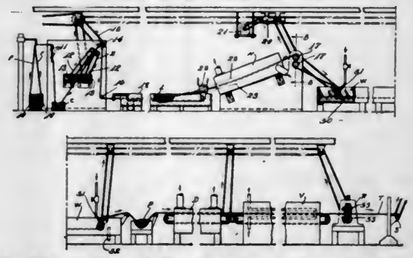
5. In a transmission system for transferring power from a source to a plurality of similar loads, an aperiodic transformer, a single transmission line connecting the input side of said transformer to said source, and a plurality of similar transmission lines each connecting the output side of said transformer to one of said loads, the load impedances being such that the ratio of the surge impedance of said single line to the combined parallel connected surge impedances of said plurality of lines is markedly different from the ratio of the total effective impedance of said single line with its connected source to the total effective impedance of said plurality of lines with their connected loads, and the impedance ratio of said transformer being substantially equal to said ratio of surge impedances.

2,165,088
PICK-UP DEVICE
Ralph L. Anderson, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application January 20, 1938, Serial No. 185,918
19 Claims. (Cl. 56—364)



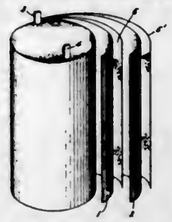
1. In a rotary pick up device of the class described, the combination of a rotatable drum having perforations through its cylindrical surface, means for rotating the drum, a rotor disposed within said drum the axis of rotation of which is parallel to and eccentric with that of the drum, means for rotating said rotor synchronously with said drum, said means including a revoluble member disposed within said drum concentric with the axis of rotation thereof and operatively connected with said rotor, and tines carried on said rotor and adapted to project through said perforations.

2,165,089
MANUFACTURE OF RUBBER THREAD
Carl L. Beal, Cuyahoga Falls, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware
Application August 15, 1936, Serial No. 96,201
14 Claims. (Cl. 18—8)



11. Apparatus of the character described comprising, in combination, a tank having an aperture in a wall thereof and containing liquid coating material maintained at a level above the aperture, and means for causing a filament to travel in a path including a free catenary-like sweep passing substantially horizontally through the said aperture and emerging angularly from the surface of the liquid, the apparatus being so constructed and arranged as to effect passage of the filament through the coating material without the filament contacting any supporting or guiding means while in contact with the coating material.

2,165,090
RESINOUS COMPOSITIONS AND CAPACITORS CONTAINING THE SAME
Frank M. Clark and Ralph A. Ruscetta, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York
Application March 17, 1936, Serial No. 69,405
12 Claims. (Cl. 175—315)



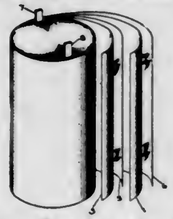
1. A resinous product derived by the heat treatment of a mixture of lactic acid and ammonium lactate, said product being a waxy solid at 25° C. and a clear liquid at 90° C.

11. An electric capacitor containing film-forming armatures and an electrolyte comprising the combination of an ionogen, formamide and a product derived by heating to a temperature of about 120° to 140° C. for several hours an ammoniated acid of the group consisting of alpha, gamma and delta monobasic, saturated hydroxy aliphatic acid.

2,165,091
ELECTRIC CAPACITOR AND COMPOSITIONS THEREFOR
Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application June 16, 1936, Serial No. 85,520
18 Claims. (Cl. 175—315)

1. An electrolyte suitable for use with film-

forming electrodes consisting substantially wholly of a mixture of an amide of an aliphatic acid



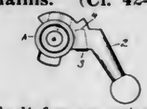
containing less than 5 carbon atoms in the molecule, and a film-forming ionogen, compatible with said amide.

2,165,092
SHOE VAMP
Claude H. Daniels, Wellesley Hills, Mass.
Application October 8, 1935, Serial No. 44,037
2 Claims. (Cl. 36—45)



1. In a shoe, a fabricated vamp composed of filaments, a toe stiffener, and a filament passing through the free edge of the toe stiffener and connecting said edge to the vamp, the connecting filament constituting one of the filaments of the fabricated vamp.

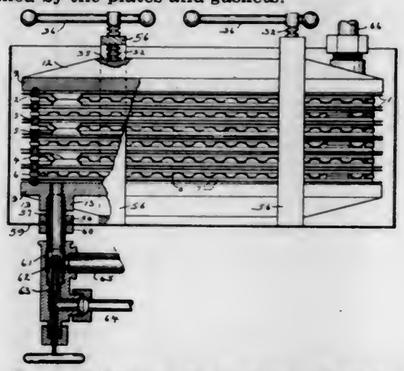
2,165,093
BOLT CUSHIONING DEVICE
Halvor Olsen Eiane, Washington Island, Wis.
Application August 4, 1938, Serial No. 223,020
In Canada August 6, 1937
2 Claims. (Cl. 42—1)



1. In a breech bolt for an automatic fire-arm, a bolt-handle projecting from said breech-bolt, said breech-bolt adapted for longitudinal and rotary movements, a socket hole bored into said bolt-handle from the underside thereof and adjacent to the breech-bolt, a wooden plug inserted into said socket, said wooden plug adapted to cushion the force of the rotary blow of said bolt-handle and breech-bolt when brought to an abrupt stop against a receiver of a fire-arm.

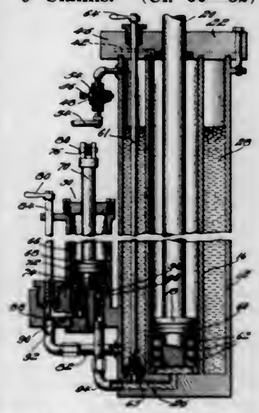
2,165,094
HEAT EXCHANGE DEVICE
Frank J. Fette, Tampa, Fla.
Application August 26, 1936, Serial No. 97,922
7 Claims. (Cl. 257—4)

6. A heat exchange apparatus comprising a plurality of sheet metal plates each having a shallow depression adjacent to the periphery of the plate to receive a gasket, gaskets mounted within the depressions and having a thickness greater than twice the depth of the depression whereby to separate the plates to form a thin passage between confronting surfaces of two plates when assembled opposite each other with the gasket in the depressions, and means connecting the two plates between gaskets in pairs, back to back, one of the connecting means for each pair of plates providing a passage for a liquid, and end members clamped upon the units to hold them in assembled relation, said end members being provided with inlet and outlet ports for liquid communicating with the liquid passage formed by the plates and gaskets.



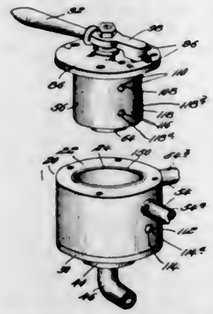
7. In a pasteurizer, a plurality of similar superposed assemblies each comprising a plurality of heat transfer units connected to form a continuous channel for the flow of a liquid to be pasteurized, the uppermost assembly being provided with means for constant supply of heated liquid and with means for automatically maintaining the temperature of the heated liquid within a limited range above the point of pasteurization, and below the boiling point, a lower assembly provided with means for a constant supply of a cooling liquid, and a still lower assembly provided with means for a constant supply of a refrigerant liquid, whereby a liquid to be pasteurized may descend by gravity through a heat transfer means adapted to raise its temperature to the pasteurizing point but below an injurious temperature, thence through a heat transfer means adapted to remove a great part of the heat, and thence through a final assembly adapted to chill the pasteurized liquid to a desired low temperature.

2,165,095
HYDROPNEUMATIC JACK
John S. Frechette, Providence, R. I.
Application September 3, 1936, Serial No. 99,256
9 Claims. (Cl. 60—52)



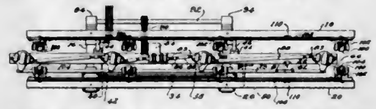
1. A pneumatic hydraulic power plant comprising a liquid containing reservoir, a cylinder, a piston vertically reciprocable within said cylinder having a piston rod extending upwardly therethrough, conduit means connecting the lower end of said reservoir with the lower end of said cylinder, means to admit air under pressure to the top of said reservoir to force liquid into said cylinder to lift said piston, and to simultaneously discharge air from said cylinder above said piston, means to disconnect said conduit means connecting said reservoir and cylinder, and a booster hydraulic hand pump connectable to said reservoir and cylinder lower end to pump liquid from said reservoir to said cylinder lower end under greater pressure to additively raise said piston under greater loads.

2,165,096
SERIAL MULTIWAY VALVE
John S. Frechette, Providence, R. I.
Application March 16, 1937, Serial No. 131,205
3 Claims. (Cl. 251—104)



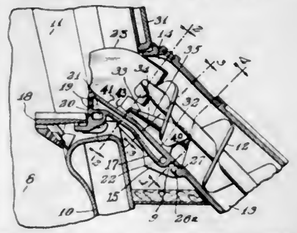
1. A serial multi-way valve, comprising a hollow stator having a cylindrical valve seat bore therein adapted to have an inlet connected centrally to the lower end thereof, an upper tier of two circumferentially spaced radial holes adapted to have pipes connected thereto spaced to alternately conjointly function respectively as inlet and outlet holes and a lower complementary tier of exhaust holes immediately below said upper tier holes, a cylindrical valve rotor member rotatable within said cylindrical stator bore having an inlet hole extending vertically within to receive fluid from said stator inlet hole and a hole projecting radially outwardly from the upper end of said vertical inlet hole horizontally aligned with said upper tier inlet and outlet holes having an enlarged bore near the outer end thereof containing a spring outwardly urged cushioning washer having a perforation therein of substantially the size of a respective stator tier hole, said rotor member also having an upper tier of radial holes extending radially a distance within horizontally aligned with said inlet hole and also horizontally aligned with said upper tier of stator holes, a lower tier of exhaust holes extending a similar distance within vertically aligned with said upper tier holes and horizontally aligned with the lower tier of stator holes and vertical bores connecting the inner ends of the holes of the upper and lower tiers, said upper and lower rotor tier holes and connecting bores forming rotor exhaust passages, one each of said exhaust passages being so spaced from said rotor inlet passage on each side thereof as to come into alignment with a set of vertically aligned stator holes to complete an exhaust passage through said valve when the rotor inlet passage is brought adjacent the opposite stator upper tier hole, and two additional of said rotor exhaust passages being spaced from each other amounts equal to the distance between said two sets of stator holes to connect each of said stator upper tier holes to atmosphere to equalize the pressure in each of said holes, and means to rotate said rotor.

2,165,097
GRINDING AND POLISHING MACHINE
Rufus W. Fuller, Deerfield, Mass., assignor to Production Machine Company, Greenfield, Mass., a corporation of Massachusetts
Application December 31, 1936, Serial No. 118,613
15 Claims. (Cl. 51—79)



3. A side work support for grinding machines and the like having a frame provided with inclined ways, guides movable on the ways, a supporting bed carried by the guides, a set of work supporting and feeding rolls carried by the bed, and means comprising cooperating rack and pinion for adjusting the guides on the ways.

2,165,098
STOKER
John R. Graves, Bergenfield, N. J., assignor, by mesne assignments, to The Standard Stoker Company, Inc., New York, N. Y., a corporation of Delaware
Application August 5, 1936, Serial No. 94,357
13 Claims. (Cl. 110—104)

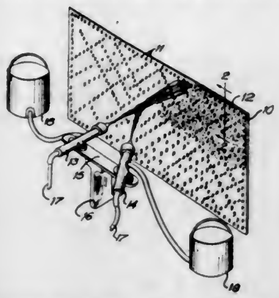


1. A pressure fluid distributor head for a stoker comprising a flat upper surface, means providing a plurality of pressure fluid chambers underneath said upper surface, a wall depending from one end of said upper surface and having a plurality of pressure fluid discharge orifices therein communicating with said chambers, and an arcuate wall at each side of said upper surface extending upwardly therefrom, said arcuate walls extending forwardly from the end of said upper surface remote from the said depending wall and being spaced inwardly from the side edges of said upper surface at the last named end thereof and diverging to the side edges of said upper surface at they extend forwardly.

2,165,099
MANUFACTURE OF PERFORATE RUBBER SHEETS
Merrill E. Hansen, Akron, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware
Application May 5, 1937, Serial No. 140,857
7 Claims. (Cl. 18—58)

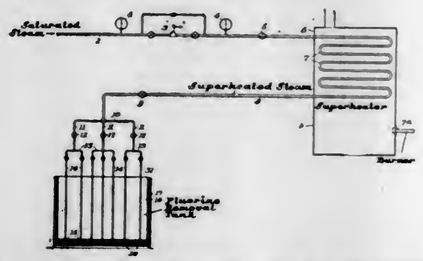
1. The method of making a perforate rubber sheet which comprises providing a deposition base

having perforations therein, spraying toward the deposition base droplets of a freely-flowing coagulable dispersion of rubber, treating the sprayed droplets in the course of their travel with a coagulant whereby the droplets are at least partially coagulated prior to contacting the deposition base



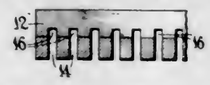
and are deposited upon the said base in a non-flowing state to form thereon a coherent rubber deposit having apertures therein corresponding to the apertures in the deposition base, and stripping the perforate rubber from the deposition base.

2,165,100
PROCESS FOR PURIFYING PHOSPHORIC ACID
Ames B. Hettrick, Piney River, Va., assignor, by mesne assignments, to Virginia Chemical Corporation, a corporation of Delaware
Application August 28, 1936, Serial No. 98,310
3 Claims. (Cl. 23—165)



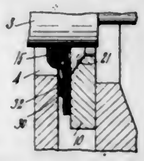
3. A process of reducing the fluorine content of concentrated phosphoric acid, which comprises diffusing superheated steam through the boiling acid kept at a temperature above the boiling point of the acid for a period of time sufficient to reduce the fluorine content to less than 50 parts per million while preventing evaporation of water substantially beyond the original concentration of the acid.

2,165,101
ACOUSTIC MATERIAL
George E. Hudson, Buffalo, N. Y.
Application January 6, 1938, Serial No. 183,679
8 Claims. (Cl. 72—18)



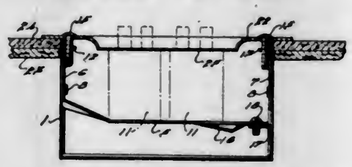
1. A sound absorbing unit comprising a block of material provided with series of parallel slots extending inwardly thereof from each of its major faces, said series of slots being disposed in transverse relation to one another and intersecting intermedially of said block for a substantial distance.

2,165,102
DUST GUARD
Richard H. Kimball, Bridgewater, Mass., assignor to George O. Jenkins Company, Bridgewater, Mass., a corporation of Massachusetts
Application July 10, 1937, Serial No. 152,969
6 Claims. (Cl. 286—6)



1. A dust guard comprising a substantially rigid plate member having an aperture therethrough of a size to loosely receive a car axle, a layer of flexible sheet material carried by said member spaced from said aperture and having an axle-receiving opening therethrough, the margin of said opening being tubular in cross section, a flexible tube within said tubular margin, and a contractible spring ring within said tube tending to contract said margin into sealing engagement with said axle.

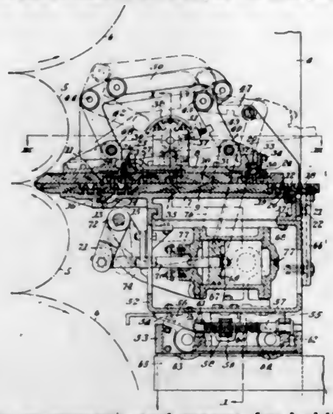
2,165,103
MOUNTING MEANS FOR ENCLOSED ELECTRIC DEVICES
Ralph H. Kingdon, Detroit, Mich., assignor to Square D Company, Detroit, Mich., a corporation of Michigan
Application December 6, 1937, Serial No. 178,207
11 Claims. (Cl. 174—57)



1. Supporting and enclosing means for an electric circuit controlling instrumentality comprising an enclosing box, a pan slidably supported on said box, an electric circuit controlling instrumentality mounted on said pan, a front cover for said box, means securing said cover to the box and against the surface of a wall within which the box is disposed, screw means extending through said front cover and threaded into a part rigid with said pan, said screw means being accessible from the front of the cover when in place against said wall surface to move the pan relative to the box to adjust the position of the instrumentalities with respect to the cover.

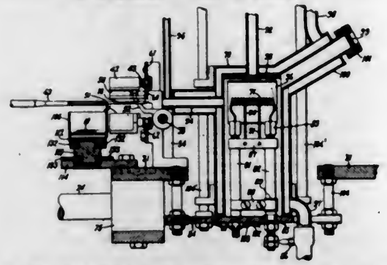
2,165,104
STRIP GUIDE FOR ROLLING MILLS
Clarence J. Klein, Steubenville, Ohio
Application December 16, 1936, Serial No. 116,228
22 Claims. (Cl. 80—51)

1. In apparatus for guiding strip to the work rolls of a rolling mill, a table, a platen movable away from and toward said table, guide boards on the platen, means for holding said guide boards against movement along their longitudinal axis and relative to the platen but permitting



sidewise movement, and means for holding said guide boards against sidewise movement.

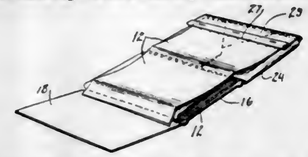
2,165,105
APPARATUS FOR MANUFACTURING FILAMENTS
Robert F. Krejci and William P. Zabel, Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York
Application August 18, 1937, Serial No. 159,727
5 Claims. (Cl. 176—4)



5. In a device of the class described for treating individual coiled filaments, the combination of a container for cleaning fluid having openings in opposite sides thereof, a heater located adjacent to said container for raising the temperature of the cleaning fluid therein to cause it to be vaporized into the upper portion thereof, a cooling coil disposed within said container adjacent to each of said openings therein for preventing the vapor from passing from said openings, heat treating means mounted adjacent to said container and means for conveying said individual filaments into said container to cause the filaments to be cleaned by the vapor therein and then into operative relation to said heat treating means.

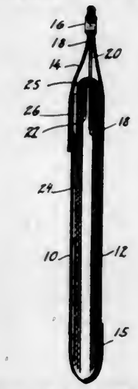
2,165,106
PAPER DISPENSING PACKAGE
Albert R. Lawson, Hamilton, Ontario, Canada, assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada
Application June 22, 1936, Serial No. 86,548
3 Claims. (Cl. 206—58)

3. In combination, a folder comprising a center panel and two end panels hinged to opposite sides of the center panel and adapted to fold thereover, one end panel having a part including side flaps of the end panel extending over the end panel spaced therefrom forming a guideway, said folder provided with a cutting edge extending transversely thereacross adjacent



to the margin of said guideway, and a flat roll of paper having a free end, said roll being normally carried by but free from the center panel and having its free end extending through said guideway.

2,165,107
PACKAGE FOR DISPENSING PAPER SHEETS
Albert R. Lawson, Hamilton, Ontario, Canada, assignor to Appleford Paper Products, Ltd., Hamilton, Ontario, Canada
Application June 22, 1936, Serial No. 86,549
4 Claims. (Cl. 206—57)

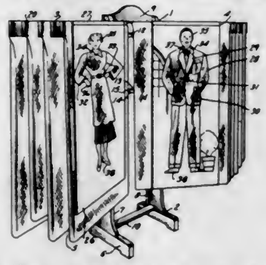


1. A dispensing package for paper sheets comprising a flat bag like structure having marginally connected front and rear walls and provided with a sheet withdrawal opening extending transversely across said front wall adjacent to the top, a sheet supporting element in the form of a sheet structure secured between the said front and rear walls within the bag at the top of the bag and depending within the bag and having an opening extending transversely thereof disposed opposite the sheet withdrawal opening through the bag wall, and a plurality of separate superposed sheets extending through the opening of said support and hung thereover to extend downwardly within the bag upon opposite sides of said support and having their free ends terminating spaced from the bottom of the bag.

2,165,108
DISPLAY RACK
Lee L. Levering, Tulsa, Okla.
Application October 21, 1936, Serial No. 106,788
1 Claim. (Cl. 35—56)

In an apparatus of the character described, a support resting on a floor and comprising a substantially horizontal member spaced from the floor, a piece of fabric folded over the horizontal member at a point substantially midway the length of the piece of fabric, a pair of panels

each having a transparent portion outlined by front and rear representations respectively of a garmented human figure, and flexible means hingedly connecting the upper ends of the panels together, the hinged panels being engageable over the supported portion of the piece of fabric



and about the outer faces of the hanging ends of the piece of fabric, the transparent portions of the panels revealing the piece of fabric when viewed through the panels in respective representation of front and rear views of a human figure clothed in a garment made from the piece of fabric.

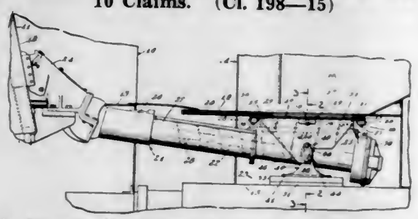
2,165,109

CONVEYER FOR LOCOMOTIVE STOKERS

Eugene Martin, Erie, Pa., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware

Application December 18, 1937, Serial No. 180,505

10 Claims. (Cl. 198—15)



1. In a tender having a frame and a fuel bin having a floor with an opening therein, a stoker fuel trough movably mounted on said frame and beneath said opening with reference to movement about a vertical axis, a sealing frame having upstanding walls surrounding said opening and extending downwardly from the under side of said fuel bin floor into said trough adjacent the upper wall portions thereof, means carried by said trough pivotally supporting said sealing frame on a horizontal transverse axis, said sealing frame being arranged to swing laterally with said trough and antifriction means carried by said sealing frame contacting the under side of the fuel bin floor.

2,165,110

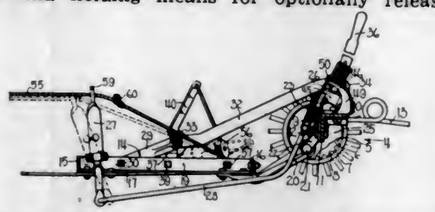
CONTROL DEVICE FOR DUMP RAKES

James H. McAfee, Falmouth, Maine, assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application September 30, 1936, Serial No. 103,272

9 Claims. (Cl. 56—391)

1. For use with a tractor-drawn dump rake comprising a rake head provided with rake teeth and carrying wheels, mechanism for dumping the rake, actuating means for said mechanism, means for holding said teeth in ground-engaging position, and dumping control means comprising a single operating member controlled from a position on the tractor, said member being connected to said holding means for optionally releasing the latter, and having means for engaging said dumping mechanism actuating means after the holding means has been released.



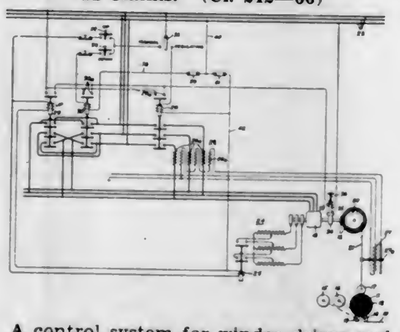
2,165,111

CONTROL SYSTEM

Ernest J. Rasmusson, Wauwatosa, Wis., assignor to General Electric Company, a corporation of New York

Application August 28, 1937, Serial No. 161,457

11 Claims. (Cl. 242—66)



1. A control system for winder drives and the like comprising means for winding a length of material to form a roll, a weight bearing on said roll for applying pressure thereto and means for controlling said pressure comprising an electric motor mechanically connected to said weight, a saturable core type reactor in circuit with said motor, and means for varying said reactor in accordance with the build-up of said roll.

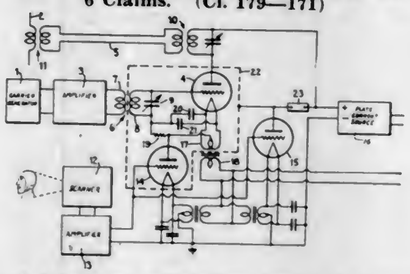
2,165,112

HIGH FREQUENCY MODULATING AND TRANSMITTING SYSTEM

George T. Royden, South Orange, N. J., assignor to Federal Telegraph Company, Newark, N. J., a corporation of New Jersey

Application January 7, 1938, Serial No. 183,773

6 Claims. (Cl. 179—171)



1. A television modulation system for modulating a high frequency, high power carrier in accordance with high frequency signals which comprises a modulator space discharge device having a modulating space discharge path, a driver space discharge device having a driving space discharge path, a current source, means for connecting the space discharge paths in series with each other and said source, means for applying said carrier to said modulating path, means for varying the impedance of said driving path in accordance with said signals for effecting modulation of said carrier, shielding means for dividing the effective capacity across said driver discharge path into two serially related capacities, and means for varying the potential across one of said two capacities substantially in accordance with variations of potential across said driver discharge path at least with respect to said signals.

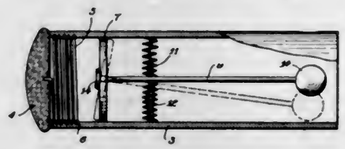
2,165,113

TOY EYE BLINKER

Henry Rubenstein, Brooklyn, N. Y.

Application December 18, 1936, Serial No. 116,615

4 Claims. (Cl. 46—170)



1. A device of the character described comprising in combination, a translucent member, an oscillatory light-reflecting element behind said translucent member, a normally luminescent annular member disposed adjacent said reflecting element and means for oscillating said light-reflecting member, said light-reflecting element having areas of different reflecting powers so as to present a scintillating illumination on said translucent member during oscillation of said reflecting member.

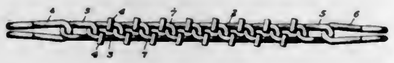
2,165,114

ANTISKID CROSS CHAIN

John Senft, York, Pa., assignor to The McKay Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application September 3, 1938, Serial No. 228,407

4 Claims. (Cl. 152—243)



1. An anti-skid cross chain comprising interconnected twisted links having rod-shaped calks united therewith on opposite sides of a link at the face of the link remote from the wheel to which the cross chain is applied and at points which are offset from each other longitudinally of the link, the calks extending generally transversely of the cross chain but having their axes offset from each other and being so positioned thereon that when the cross chain is laid down on a plane surface and disposed with its axis substantially in a straight line and with the calks in contact with such surface the respective lines of calks at the edges of the cross chain have their axes disposed respectively in planes approximately parallel to said plane surface but intersecting each other at an angle of at least about 160° and less than 180°.

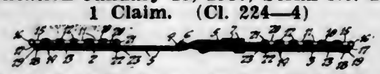
2,165,115

WRIST-WATCH STRAP, BAND, OR THE LIKE

John P. Schultheiss, Attleboro, Mass., assignor to R. F. Simmons Company, a partnership consisting of Harold E. Sweet and Hayward H. Sweet, Attleboro, Mass.

Application January 15, 1937, Serial No. 120,766

1 Claim. (Cl. 224—4)



Means for attaching a leather strap formed of superimposed plies to a wrist-watch having lugs thereon with pins extending therebetween, said means comprising tubular members for receiving the pins on the watch, and prongs on said tubular members adapted for insertion between the plies of the strap to secure said members and watch in place thereon.

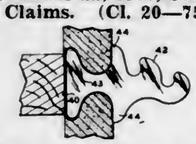
2,165,116

WALL CONSTRUCTION

Jacob Trojanowski, Cleveland, Ohio

Application November 22, 1937, Serial No. 175,787

3 Claims. (Cl. 20—75)



2. In a wall construction, a channel member having a base portion and relatively overhanging flanges and secured to the wall with its flanges extending outwardly of the wall for receiving trim members, trim members having resilient portions received between the flanges and resiliently engaging the flanges for securing the trim members to the wall, a utility device having a base portion received between the flanges and engaging beneath the flanges for connecting the device to the channel member, and the adjacent ends of the trim members engaging the utility device and opposing shifting of the device from its connected position.

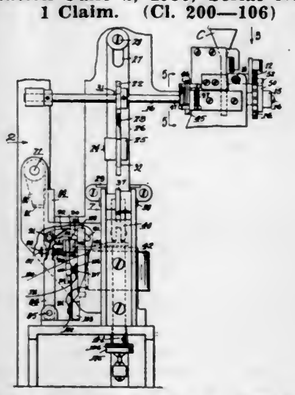
2,165,117

SHIFTING MECHANISM FOR TIME RECORDERS

Edward G. Watkins and James A. Dell, Gardner, Mass., assignors to Simplex Time Recorder Company, Gardner, Mass., a corporation of Massachusetts

Application June 2, 1936, Serial No. 83,128

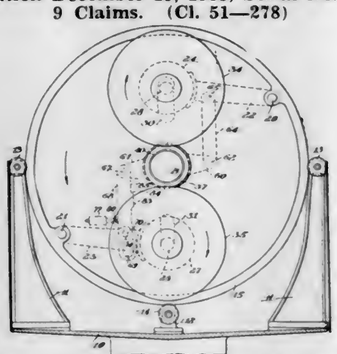
1 Claim. (Cl. 200—106)



In a time recorder having a shiftable element

means for shifting said element bodily including an electro-magnetic operating device, an electric circuit for said device and relatively movable contacts in said circuit, that improvement which comprises the combination therewith of an actuating device effective to move one of said contacts to close said circuit, means to so move said actuating device, automatic means to disengage said actuating device immediately after the circuit is closed and before said moving means and said actuating device are withdrawn, resetting devices, and automatic time-controlled means effective to thereafter withdraw said moving means and thereby permit said resetting devices to place said actuating device in operative relation to the contact actuated thereby, said time-controlled means releasing said moving means at a predetermined later time so that said moving means will move said actuating device to again close said circuit.

2,165,118
CUTTING-OFF MACHINE
Herbert J. White, Wayne Township, Passaic County, N. J.
Application December 19, 1935, Serial No. 55,265
9 Claims. (Cl. 51—278)

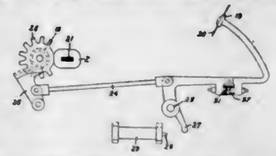


1. The method of cutting a blank from a bar of stock in which a pair of rotary cutting tools are employed and the rotating tools are revolved about the bar while being fed into the bar until the bar has been cut through to a predetermined depth, and then one of the tools is withdrawn and the other tool completes the cut.

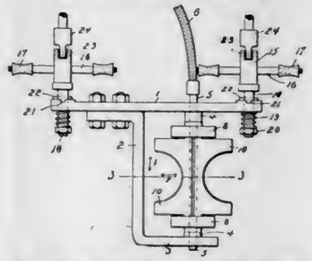
8. A cut-off machine comprising a work support, a tool support, a pair of rotary cutting-off tools mounted on said tool support at opposite sides of the work, means for rotating the tools, means for producing relative rotational movement between said supports about the center of the work, means for simultaneously feeding said tools depthwise into the work carried by said work support, and means for discontinuing the feed movement of one tool when the cut has progressed to a predetermined depth.

2,165,119
AUTOMATIC CONTROLLER
Otto Wünsche, Berlin, Germany, assignor to General Electric Company, a corporation of New York
Application May 9, 1938, Serial No. 206,951
In Germany May 13, 1937
10 Claims. (Cl. 172—179)

10. The combination with a motor, of a rotary switching device for accelerating said motor, a pedal, a spring connection between said pedal and said switching device for driving said switching device, a stationary magnet coil, a rotary armature for said magnet coil provided with a plurality of pole pieces, a driving connection between said armature and said switching device, means for energizing said magnet coil in accordance with the current in the circuit of said motor so that said armature is released for further rotation of said switching device when the motor current falls to a predetermined low value, a second winding associated with said magnet coil and acting in opposition to said magnet coil, means operated by said pedal for varying the excitation of said second winding, said pedal being constructed in two independently movable parts arranged to be simultaneously depressed, and one of said parts being arranged to be released independently of the other, and switching means operated by said part when said part member is released for deenergizing said auxiliary coil.



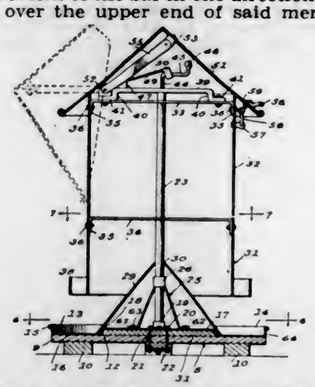
2,165,120
TUBE CLEANING DEVICE
Giuseppe Ammendola, Trieste, Italy
Application August 3, 1937, Serial No. 157,214
In Italy September 25, 1936
4 Claims. (Cl. 29—81)



1. In a portable boiler-tube scraping apparatus, a narrow carriage designed to be movable along between two rows of tubes and including a longitudinal bar and a bracket arm carrying heads mounted at the ends of said bar, and each including a cross arm with rollers to ride on the tubes, and a rotary tube cleaner journalled in bearings in said bar and bracket, said cleaner comprising a rotatable shaft, scraper blades mounted on said shaft for limited movement radially and longitudinally thereof.

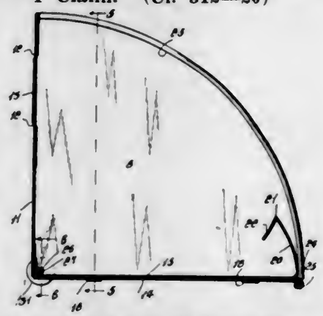
2,165,121
FEEDER
Albert Amstutz, La Rue, Ohio
Application June 28, 1937, Serial No. 150,839
1 Claim. (Cl. 119—53.5)

A feeder comprising a base pan, a tubular standard rising from said pan, a plug in said standard downwardly of the upper end thereof, a cylindrical member open at each end engaging about said standard, a bar extending diametrically across said member adjacent the upper end, said bar having a threaded opening coaxial with said standard, a threaded crank engaging through said opening loosely engaging in the upper end of said standard for engagement with said plug whereby said member may be vertically adjusted relative to said standard, the upper end of said standard being engageable with said bar to limit the movement of the bar in one direction, a lid engaging over the upper end of said member and



enclosing said crank, means hingedly securing said lid to said bar, a U-shaped latching yoke, and means pivotally securing said yoke to said bar in a position for engagement with said crank to thereby hold said crank against rotation relative to said bar.

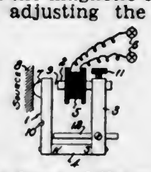
2,165,122
CABINET
Ray S. Ashbery, Ithaca, N. Y.
Application February 8, 1938, Serial No. 189,446
1 Claim. (Cl. 312—20)



A motion picture film rack, comprising, a relatively narrow front wall, sector-shaped side walls, an elongated flap carried by the side edge of each side wall spaced from said front wall, said flaps being disposed in overlapping relation to provide a base portion and interlocking connections between said flaps and an extension on one of said flaps directed upwardly from said base portion to prevent displacement of a film roll when the base portion is horizontally disposed on a support and an extension on the other flap directed downwardly therefrom to provide a supporting foot.

2,165,123
CONTACT MICROPHONE
Stuart Ballantine, Mountain Lakes, N. J.
Application August 13, 1937, Serial No. 158,992
14 Claims. (Cl. 179—114)

1. The method of maintaining the sensitivity of a contact microphone substantially independent of changes in the length of the air gap in the magnetic circuit that result from variations in the steady pressure with which the microphone is applied to a source of mechanical vibrations, the magnetic circuit including a permanent magnet in series with the air gap and an armature that is vibrated by the source to alter the flux in the magnetic circuit, said method comprising adjusting the normal air gap



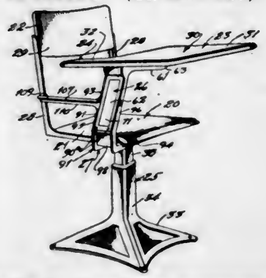
and the coercive force of the permanent magnet to produce incipient saturation of the magnetic circuit thereby to prevent an increase in sensitivity when the microphone is pressed against the source of vibrations so strongly as to reduce the air gap below its normal value.

2,165,124
THROAT MICROPHONE
Stuart Ballantine, Mountain Lakes, N. J.
Original application February 12, 1935, Serial No. 6,246. Divided and this application September 30, 1937, Serial No. 166,667
5 Claims. (Cl. 179—157)



1. In a throat microphone, a mechano-electrical transducer including vibrating means adapted to be actuated by mechanical vibrations of the throat due to the voice, means for supporting said vibrating means in contact with the throat, and means preventing wind and aerial sound waves from entering the space between the said transducer and the neck, said means comprising a protuberance encircling said vibrating means at its point of contact with the throat and projecting from the transducer into sealing engagement with the neck when the microphone is in an operating position.

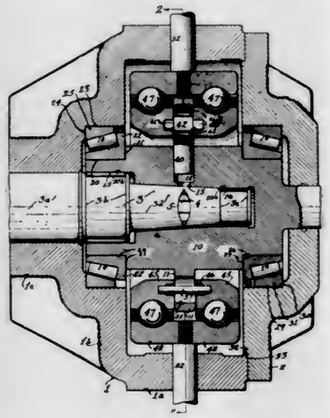
2,165,125
ARTICLE OF FURNITURE
William J. Bargen, Waukegan, Ill.
Application April 27, 1937, Serial No. 139,316
14 Claims. (Cl. 155—128)



9. An article of furniture comprising a chain including a back and a seat, a desk arranged over, extending forwardly from and disposed in transverse relation with respect to the seat, said desk being formed with a rearwardly extending arm rest, a head secured to the desk for supporting it, an upstanding forwardly inclined hollow

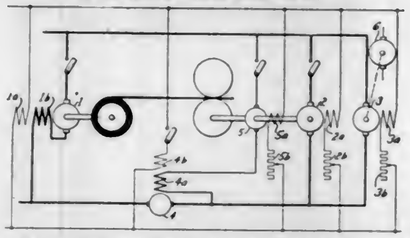
shank merging at its upper end into the head for supporting and vertically adjusting it, said shank being formed on its inner side with a slot, and a shank receiving, carrying and supporting structure including an upstanding forwardly inclined channel-shaped part in which the shank is slidably mounted and adjusted relative thereto, said part being arranged at the forward portion of one side of the chair and terminating at its lower end into an angle-shaped part arranged against and secured to the lower face of said seat, said structure including a horizontally disposed bracing portion integral with and extending rearwardly from the rear side of said channel-shaped portion and being secured to the back of the chair at the said side of the latter, a clamping member arranged within said shank, and adjusting bolts for said member carried by said channel-shaped part and engaging said member, said bolts when adjusted in one direction providing for said clamping member binding against the inner face of and extending into the slot of the shank whereby the latter will be clamped stationary, in its normal and adjusted position, to said structure.

2,165,126
HYDRAULIC PUMP OR MOTOR
Elek K. Benedek, Bucyrus, Ohio
Application October 21, 1935, Serial No. 45,908
12 Claims. (Cl. 103—161)



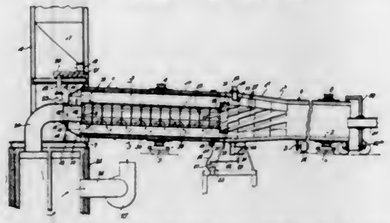
9. In a radial piston rotary reactance pump or motor including a casing, a rotor, piston and cylinder assemblies carried thereby, valve means for the assemblies, laterally extending thrust means carried by the assemblies, a reactance rotor operatively engaging the thrust means for operating the assemblies, said reactance rotor comprising a pair of complete self-contained anti-friction bearing assemblies positioned at opposite sides of the plane of the piston and cylinder assemblies, each bearing assembly including an outer race, an inner race and anti-friction elements carried thereby between said races, means independent of said casing rigidly connecting the outer races of said bearing assemblies together, said outer races being directly supported in the casing with the inner races in direct cooperation with said thrust means, and means for constraining said assemblies to proper operating position axially of the axis of rotation.

2,165,127
MOTOR CONTROL SYSTEM
Herbert S. Carnegie, Stafford, England, assignor to The English Electric Company Limited, London, England, a British company
Application January 13, 1938, Serial No. 184,823
In Great Britain October 29, 1936
5 Claims. (Cl. 172—239)



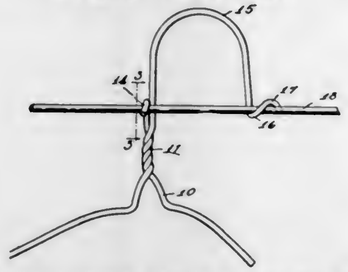
1. A control system comprising a main and auxiliary dynamo electric machines connected to a strip of material, a common source of power for said machines, means for varying the voltage of the power source to vary the speeds of said machines together to maintain a predetermined speed relation therebetween, means for varying the excitation of the main machine to vary its speed independently of the other and without varying the voltage of the power source, a booster generator connected in series with the auxiliary machine and excited from the power source, and means responsive to the speed of the main machine under field excitation control for varying the excitation and thereby the voltage of the booster generator to effect a corresponding variation in the speed of the auxiliary motor to maintain said predetermined speed relation.

2,165,128
ROTARY KILN
Richard D. Cheesman, Allentown, Pa., assignor to Traylor Engineering and Manufacturing Company, Allentown, Pa., a corporation of Delaware
Application April 22, 1938, Serial No. 203,669
11 Claims. (Cl. 263—33)



1. A rotary kiln arranged for rotation about an inclined axis, said kiln having a forward section constituting a conditioning chamber and a section of smaller diameter constituting a combustion chamber, a series of laterally spaced muffle tubes open at both ends extending throughout the conditioning chamber, said muffle tubes having comparatively thin metal walls, means for rotating said kiln, header plates fastened to and closing inlet and outlet ends of the conditioning chamber, and being provided with openings for passing the ends of said tubes, radially disposed baffles located at spaced intervals throughout the conditioning chamber, a hood for closing the outlet end of the kiln, a burner pipe projecting through said hood in a direction longitudinally of the kiln for directing a flame within the combustion chamber, an annular member secured to the inlet end of the kiln in advance of the conditioning chamber and providing in conjunction with the front header plate a closed compartment in communication with the forward ends of the muffle tubes, a spout for delivering material into said compartment, inclined lifting blades for directing material from said compartment into the muffle tubes, an offtake flue communicating with the kiln rearwardly of the header plate for the combustion gases passing out of the kiln, and means for withdrawing the combustion gases from the kiln through said flue.

2,165,129
GARMENT HANGER
Beryl Floyd Clark, Centerville, Iowa, and Vallie Don Humbert, Memphis, Mo.
Application April 25, 1938, Serial No. 204,128
1 Claim. (Cl. 24—230.5)

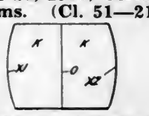


A garment hanger having an upright supporting stem, a hanger supporting hook at the upper portion of the stem, extended laterally outwardly from the stem, then downwardly and then inwardly toward the stem to a point spaced apart from the stem, and a tensioning member fixed to the upper portion of the stem and formed of spring material and having at its outer end a U-shaped loop open at its top, and beyond that a U-shaped loop open at its bottom, said loops being shaped to receive a garment supporting rod and normally hold the hanger in position with the hanger supporting hook below and laterally spaced from a garment supporting rod, and said tensioning member being of such resiliency that an operator may easily move the hanger to position with the hanger supporting hook above the supporting rod, and then move the hanger laterally toward the supporting rod, and then when the hanger is released the tensioning member will yieldingly press the hanger supporting hook downwardly and laterally to thereby move the hook to position for engaging the rod to thereby frictionally hold the hanger to a rod.

2,165,130
INCREASING THE DRYING PROPERTIES OF OIL
Mayne R. Coe, Washington, D. C.
No Drawing. Application August 10, 1936, Serial No. 95,276
6 Claims. (Cl. 260—406)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

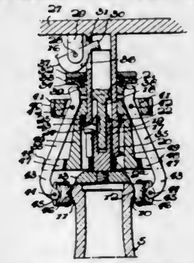
1. The process of increasing the drying properties of unsaturated oils other than non-drying oils, which comprises incorporating into the oil a photosensitizer capable of catalysing autoxidation and exposing the resulting product for a period of time to light rays capable of inducing autoxidation.

2,165,131
BIPLANAR OPHTHALMIC LENS DIE
Henry A. Courmettes, Brooklyn, N. Y.
Application June 24, 1938, Serial No. 215,646
4 Claims. (Cl. 51—216)



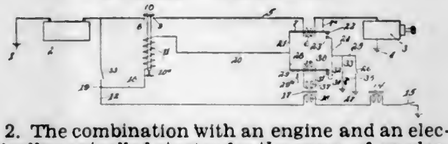
1. A die for blocking ophthalmic lenses in the process of surface grinding comprising, on one side, two angularly disposed and lapped surfaces evenly joined in a line at its center, two juxtaposed edges curved to fit the inner line of demarcation in biplanar lens surfaces and guide the positioning of said lenses upon the said die, whereby the curved edges and the line of junction of the two surfaces at the center of said die lie on a predetermined curve, and suitable pivotal centers on the opposite side of said die.

2,165,132
MEANS FOR CAPPING BOTTLES
Marion T. Curtin, Rochester, N. Y., assignor to Germ-Proof Cap, Inc., Rochester, N. Y., a corporation of New York
Application November 28, 1938, Serial No. 242,843
10 Claims. (Cl. 226—87)



1. A bottle capping unit including a plurality of radially swinging spinning arms having means for engaging the flange of a bottle cap, means for rotating the spinning arms around the bottle cap, and mechanism for applying pressure to the spinning arms for moving the arms inwardly into engagement with the flange of the bottle cap, said mechanism including an actuating cam, upper and lower plunger members adapted to be moved into actuating engagement with the cam by the upward movement of a bottle, and a latch for holding the upper and lower plunger members in connected relation until the completion of the capping operation.

2,165,133
AUTOMATIC STARTING DEVICE FOR INTERNAL COMBUSTION ENGINES
Leonard J. Cuthbertson, Girard, Kans.
Application September 7, 1938, Serial No. 228,838
3 Claims. (Cl. 290—38)



2. The combination with an engine and an electrically controlled starter for the same, of an electric circuit including the primary winding of a transformer, an interrupter, engine-driven and included in said circuit and functioning to set up

an intermittent current in said circuit as long as the engine is in normal operation, a second circuit in which is included the secondary winding of said transformer and electrical connections between the second circuit and the starter, through which the supply of current to the starter is controlled, said transformer being so designed that during any engine rotation, sufficient voltage of self-inductance is created in its secondary winding as to introduce enough delay in the functioning of the electrical elements which control the starter as to prevent the starter from being set in operation until the engine has come to rest.

2,165,134

PROCESS OF PREPARING ENAMELS

Karl Frank, Bad Soden in Taunus, and Fritz Osterloh, Frankfort-on-the-Main-Hochst, Germany, assignors of one-half to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany, and one-half to Eisenwerk Kaiserslautern, Kaiserslautern, Germany

No Drawing. Application January 9, 1937, Serial No. 119,858. In Germany January 11, 1936

7 Claims. (Cl. 106—36.2)

1. A process of preparing enamels of a high resistance to variation of temperature which comprises adding substantially pure silicic acid fused and then cooled to solidification to the components of the said enamel, grinding the mixture, mixing it with water or a binding agent, fusing the enamel on the articles to be covered and baking them at ordinary baking temperatures.

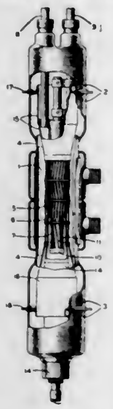
2,165,135

WIRE ELECTRODE

Lloyd P. Garner, Newark, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application April 30, 1938, Serial No. 205,214

8 Claims. (Cl. 250—27.5)



1. A cylindrical electrode comprising spaced coaxial annular members, a ring coaxial with and between said annular members in the cylindrical surface of said members, a plurality of substantially parallel rods, each joined at one end to one of said annular members, and attached at the other end to said ring, the point of attachment of said other end of each rod being displaced along said ring out of longitudinal alignment with the rod ends joined to said one tubular member, a second set of substantially parallel rods each joined at one end to said ring, the other end of each rod of said second set of rods lying in said cylindrical surface and in longitudinal alignment with said one end of each of the first mentioned rods and mechanically fastened to the other annular member.

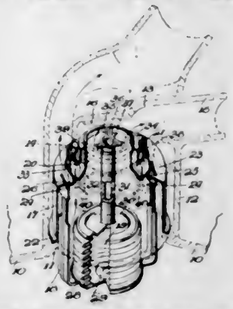
2,165,136

TEMPERATURE REGULATOR

Jean V. Giesler and John E. Dube, Knoxville, Tenn., assignors to The Fulton Sylphon Company, Knoxville, Tenn., a corporation of Delaware

Application June 10, 1935, Serial No. 25,909

1 Claim. (Cl. 236—34)



A self-contained temperature regulator unit for internal combustion engines comprising the combination of a tubular member adapted to be mounted at one end so as to constitute a portion of the cooling system of the engine and formed at its opposite end to provide a valve seat, a support for a thermostat mounted on said tubular member, a thermostat mounted thereon, a valve member having a flange at an angle to its axis adapted to cooperate with said valve seat and having a centrally arranged tubular portion open at both ends, means connecting said valve member and thermostat, and a spider-like element having a central aperture embracing said valve member at its free end, when in closed position, and spaced axially extending arms attached at their inner ends to said tubular member in unitary relationship therewith, said element constituting a tubular guide for said valve member as a part of said unit and its spaced arms providing apertures for cooling medium flow when said flange is disengaged from said seat.

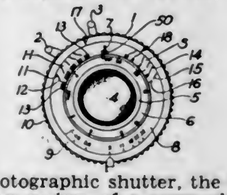
2,165,137

PHOTOGRAPHIC SHUTTER

Newton B. Green, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application June 8, 1938, Serial No. 212,494

4 Claims. (Cl. 95—63)



1. In a photographic shutter, the combination with a shutter casing, of a cover plate therefor, mechanism in the shutter for producing a plurality of different exposures, a pair of scales spaced apart on the shutter cover, each scale comprising a group of lines indicating various of the plurality of different exposures, the two groups of lines being spaced apart on the cover plate, an exposure setting dial for controlling the shutter mechanism oscillatably mounted on the shutter and movable a distance less than the distance between the extreme lines of the two groups, and a pair of spaced pointers carried by the exposure setting dial, one pointer being positioned to cooperate with only one scale.

2,165,138

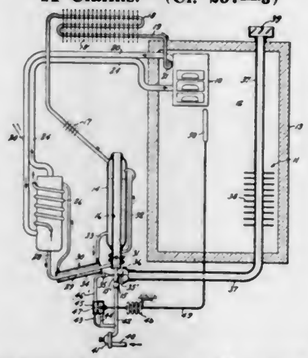
REFRIGERATION

Gunnar Grubb, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware

Application June 16, 1936, Serial No. 85,481

In Germany June 20, 1935

11 Claims. (Cl. 257—3)



1. Apparatus for heating and cooling a space comprising a refrigeration system including a heat receiving part and a cooling element, means including said cooling element for cooling the space when said heat receiving part is heated at or above a predetermined rate, means including a heater for heating said heat receiving part and the space, and means for rendering said heater operative to heat said heat receiving part at or above the predetermined rate when it is desired to effect cooling of the space, and for rendering said heater operative to effect heating of the space when it is desired to heat the latter, said last-mentioned means rendering said heater operative to heat said heat receiving part below the predetermined rate while the space is being heated so that, when said heater is again rendered operative to heat said heat receiving part at or above the predetermined rate, the length of time required to effect cooling will be reduced.

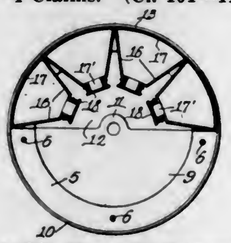
2,165,139

FOUNTAIN FOR DUPLICATING PRINTING MACHINES

Andrew M. Hardin, Miami, Fla.

Application April 12, 1938, Serial No. 201,586

4 Claims. (Cl. 101—115)



1. The combination with the stencil drum of a duplicating printing machine, of a plurality of ink fountains mounted on the machine and adapted to supply ink to a pad and stencil secured on the drum, blanks adapted to be fitted on the drum between adjacent fountains closing the spaces between said fountains, and means for removably securing the fountains and blanks in position.

2,165,140

COMPOSITIONS OF MATTER AND METHODS AND STEPS OF MAKING AND USING THE SAME

Mortimer T. Harvey, East Orange, N. J., assignor to The Harvel Corporation, a corporation of New Jersey

No Drawing. Application October 25, 1935, Serial No. 46,743

28 Claims. (Cl. 260—23)

1. A friction element containing friction materials, and a bond for the friction materials comprising the reaction product of cashew nut shell liquid and formaldehyde, the bond being formed in situ in the element to be uniformly distributed throughout the friction materials to produce homogeneity in the element and insure uniform functioning of the element as it wears away in service.

2,165,141

RAM

Fred W. Hecht, Clairton, Pa.

Application February 23, 1937, Serial No. 127,247

7 Claims. (Cl. 214—23)



2. A ram comprising a pair of longitudinally extending spaced-apart channel members, means extending between said members for securely holding them in spaced relation so as to provide an open truss unit, an H-beam member arranged at one end of said channel members with one of its flanges positioned against the ends thereof, said H-beam member having a plurality of filler tubes perpendicularly arranged between its flanges, and reenforcing means arranged between the channel members at the opposite end thereof.

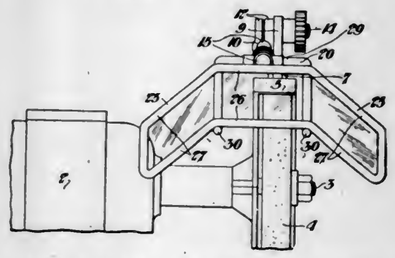
2,165,142

SAFETY SHIELD

Charles R. Jeffreys, McKeesport, Pa.

Application November 17, 1937, Serial No. 175,131

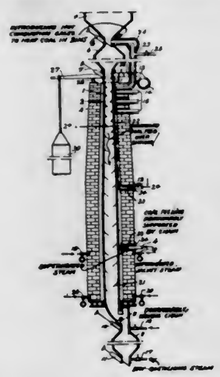
1 Claim. (Cl. 51—272)



A safety shield for abrading or cutting tools and the like comprising a wire U-shaped member having its leg portions extending toward the station of the operator, a wire elongated loop member, said wire elongated loop member having

a central substantially flat portion which is welded to and extends across the leg portions of said wire U-shaped member, the ends of said wire elongated loop member being extended out of the plane of said substantially flat central portion and toward the work, transparent window material disposed in and framed by the flat central portion and the extended end portions of said wire elongated loop member, and a rod disposed over the work and extending toward the station of the operator, said rod being connected to the base portion of said wire U-shaped member and constructed and arranged to permit the rotative adjustment of the latter.

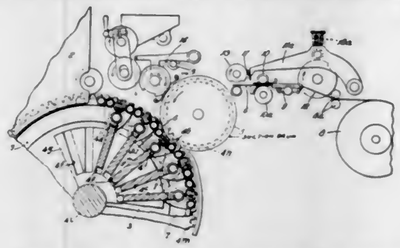
2,165,143
COAL TREATING PROCESS AND APPARATUS
Lewis C. Karrick, Salt Lake City, Utah
Original application June 14, 1928, Serial No. 285,426. Divided and this application December 11, 1933, Serial No. 701,838
7 Claims. (Cl. 202—15)



1. A process for converting sized lumps of fusible coal into lumps of low-temperature coke which comprises lowering a column of such coal by gravity through an enclosed reaction chamber, passing highly heated steam into the upper portion of the column to quickly scorch the surfaces of said coal lumps and render them rigid, passing superheated steam into the interior of the column near the lower end thereof to gasify part of the coke formed in the upper part of the chamber, passing saturated steam into a still lower point in the chamber to dry-quench said coke, removing the volatiles from the coal and the steam introduced at the said three points at the mid-point of the chamber, and controlling the pressure between the lumps during their passage through the said reaction chamber.

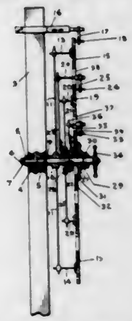
2,165,144
MACHINE FOR MAKING CIGARETTES
Isaac Lubbock, Hendon, London, England, assignor to Filter Tips Limited, London, England
Application March 18, 1937, Serial No. 131,726
In Great Britain October 15, 1935
14 Claims. (Cl. 131—39)

1. Apparatus for the manufacture of filter tip cigarettes, comprising a continuously moving conveyor, transversely disposed means on said conveyor for positioning and maintaining alignment of the lengths of cigarettes and filter tips to be united, and means including a member movable in relation to and at all times in the direction of feed of the said conveyor for frictionally engag-



ing said lengths to effect rotation of the said lengths during lateral movement thereof for the wrapping of a uniting band therearound.

2,165,145
GAME OF SKILL
Joseph Mahawash, Keansburg, N. J.
Application April 24, 1939, Serial No. 269,794
3 Claims. (Cl. 273—142)

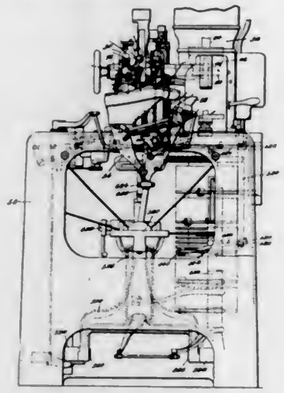


1. In a device of the character described, a series of wheels rotatable about a common axis, and a support for said axis, each of said wheels having its face in a common plane, pins extending from said faces, fingers in the path of said pins, and characters between said pins, hubs for said wheels and rods extending radially therefrom to the backs of the faces of said wheels, rods for said fingers, supports for said finger rods, some of said supports nesting concentrically with some of said hubs.

2,165,146
SHOE MACHINE
Alfred R. Morrill, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Original application February 9, 1933, Serial No. 655,934. Divided and this application November 16, 1937, Serial No. 174,798
14 Claims. (Cl. 12—6)

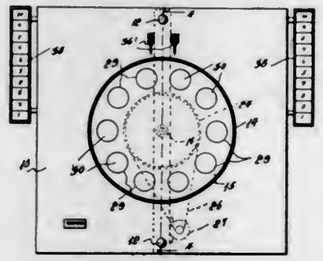
1. In a lasting and sewing machine the combination of inseam sewing and lasting instrumentalities including a needle, a lasting gripper, a shoe supporting jack, means operating in accordance with a predetermined pattern for relatively moving the jack and said instrumentalities to transfer the point of operation about the shoe, and means for actuating and controlling the lasting gripper in timed relation to the relative movements of the jack and said instrumentalities in accordance with said pattern in

transferring the point of operation about the shoe to draw the desired portions of the upper



tightly into position during the operation of the stitch forming devices in sewing the inseam.

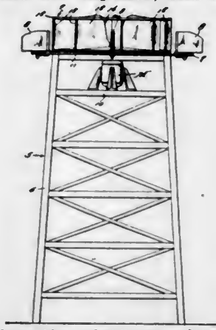
2,165,147
SKILL DART GAME APPARATUS
Leon E. Moss, Collingswood, N. J.
Application June 9, 1938, Serial No. 212,837
6 Claims. (Cl. 273—102.2)



1. Apparatus of the class described having a disk, means mounting the disk for rotation, targets carried by the disk, mounting means for the disk, a motor on the mounting means, and a drive from the motor to the disk, said targets being movable relatively to the disk, and signal means including an electric circuit having a switch common to all of the targets arranged to be closed through sliding of a target registering therewith occasioned by impact of a dart with the latter target.

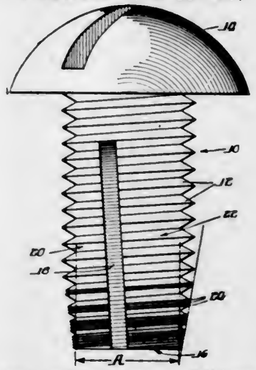
2,165,148
FROST PREVENTING MACHINE
Lester E. Nelson, Long Beach, and Vernon H. Nelson, Fillmore, Calif.
Application July 30, 1937, Serial No. 156,600
5 Claims. (Cl. 47—2)

1. A frost preventing machine of the character set forth the combination of, a tower, a horizontally disposed platform rigidly secured to the top of the tower, a horizontally rotatable air impeller disposed above the platform and having its periphery inset from the periphery of the platform, adjustable rudder blades adjustably secured by a vertical pivot to the platform adjacent the periphery of the air impeller, and a motor rigidly



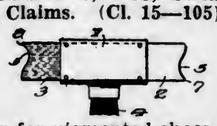
mounted below the platform with its shaft connected to the air impeller.

2,165,149
TAPPING SCREW AND METHOD OF FORMING SAME
Carl G. Olson, Chicago, Ill., assignor to Illinois Tool Works, Chicago, Ill., a corporation of Illinois
Application January 9, 1933, Serial No. 650,835
Renewed January 4, 1936
7 Claims. (Cl. 85—47)



4. A thread cutting screw fastener including a body of uniform diameter, a head at one end of the body, a hardened thread on the body consisting of a holding portion of uniform height and a thread cutting portion of decreasing height which is longitudinally recessed and includes a plurality of convolutions each having a plurality of V-shaped ridges at the entering end thereof providing a serrated cutting edge along the recess.

2,165,150
ARTICLE FOR CLEANING SHOES
Henry C. Parker and Elizabeth W. Parker, Washington, D. C.
Application October 8, 1935, Serial No. 44,091
3 Claims. (Cl. 15—105)



1. A cleaner for pigmented shoes comprising a piece of rubber having a projecting portion adapted to clean the recess between the sole and the vamp of a shoe and an adjacent arcuate section being a continuation of said projecting por-

tion adapted to fit the contour of the vamp, said piece of rubber containing sufficient colored pigment to produce a visible pigmented mark when rubbed on a shoe.

2,165,151

PRODUCTION OF ASCORBIC ACID AND ITS ISOMERS

Richard Pasternack, Brooklyn, N. Y., and Peter P. Regna, North Bergen, N. J., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a corporation of New Jersey

No Drawing. Application July 15, 1938, Serial No. 219,404
4 Claims. (Cl. 260—344)

1. Process for the conversion of esters of 2-keto-hexonic acids to the corresponding saccharosonic acids by treating esters of the 2-keto acids in aqueous solution in the presence of a metal selected from the group consisting of iron, nickel, cobalt, manganese, cadmium and zinc.

2,165,152

SEPARATING OF HEAVY MATERIALS FROM A STREAM OF LIQUID OF VARYING QUANTITY

Max Prüss and Heinrich Blunk, Essen, Germany

Application December 17, 1935, Serial No. 54,956
In Germany December 21, 1934
4 Claims. (Cl. 209—158)



1. Apparatus for separating heavy substances from a stream of liquid having a variable total flow, which comprises a separator vessel, a plurality of vertical partitions dividing the vessel into a plurality of separate flow zones through which the liquid flows upwardly and an overflow weir for each flow zone, with the weirs of separate zones at different levels, said vessel having a portion for collecting the separated solids, said vessel having an inlet for the liquid to be treated, the lower end of said inlet being disposed so closely adjacent the surface of the said solids collected therein, that the stream of liquid emitted therefrom into the vessel initially flows immediately above the surface of the said deposited solids and in a dierction substantially parallel to said surface, the vessel having a feed channel supplying the stream to the inlet and an outlet channel for the treated liquid disposed at a level above the inlet channel whereby the difference of level of the liquid in inlet and outlet channels remains substantially constant despite variations of total flow, and whereby the flow in the zone having the lowest overflow weir will be maintained substantially uniform whenever the total flow of liquid through the vessel is sufficient to cause the corresponding weir to discharge.

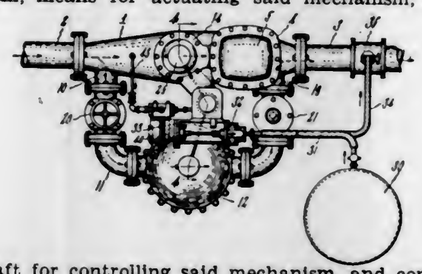
2,165,153

PROPORTIONAL FLOW MECHANISM

David J. Purdie, Verona, N. J., assignor of one-half to Hersey Manufacturing Company, Boston, Mass., a corporation of Massachusetts, and one-half to Proportioneers, Inc., Providence, R. I., a corporation of Rhode Island

Application February 26, 1936, Serial No. 65,798
4 Claims. (Cl. 210—17)

1. The combination with a system comprising a fluid conduit, a pair of meters for measuring flow through said conduit, one of said meters being responsive during small rates of flow and the other of said meters being responsive during large rates of flow, of flow-producing mechanism, means for actuating said mechanism, a



shaft for controlling said mechanism, and controlling connections from said meters to said shaft including over-running clutches, whereby only that meter effective to cause said shaft to be driven at the higher rate will be in controlling relation to said mechanism at any time.

2,165,154

BAKING GREASING METHOD AND PRODUCT

Iva de Freese Savage, Jersey City, N. J.

No Drawing. Application June 10, 1936, Serial No. 84,460
22 Claims. (Cl. 99—90)

2. The greasing method comprised of applying a melted fat to the crust contacting surface of a baking device and removing the latent heat of fusion sufficiently to set the greasing film.

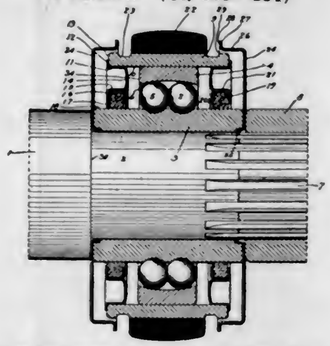
21. The composition for greasing the crust contacting surface of a baking device characterized by setting up to the solid state at baking mix temperatures prior to oven charging and comprised of a low melting point pan oil as the solvent weakening component and of a similar solid solute as the film setting component.

2,165,155

AUTOMOTIVE PROPELLER SHAFT SUPPORT BEARING UNIT

Alois H. Schmal, Philadelphia, Pa., assignor to S K F Industries, Inc., Philadelphia, Pa., a corporation of Delaware

Application January 30, 1937, Serial No. 123,087
2 Claims. (Cl. 308—184)



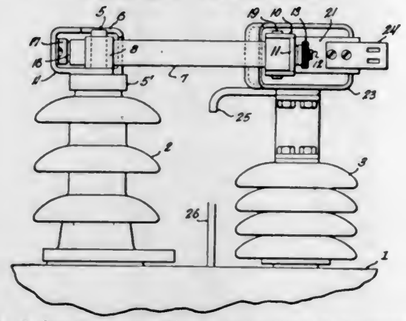
1. In a bearing box, the combination with a self-aligning bearing, of a cartridge within which the bearing is mounted, and a rubber insulating ring vulcanized to the outer side of the cartridge the outer surface of the rubber ring being spherical.

2,165,156

FUSE CONSTRUCTION

William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware

Application August 12, 1937, Serial No. 158,653
25 Claims. (Cl. 200—116)



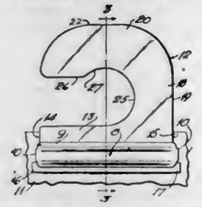
1. A fuse construction comprising a support, a fuse unit adapted to move laterally in a substantially horizontal plane spaced from said support, a pair of terminals normally electrically connected by said fuse unit, said fuse unit being movably supported from one terminal and having a free end movable away from the other terminal from operative to inoperative position, and latch means normally holding said fuse unit in operative position, said fuse unit including a fuse link normally restraining said latch means from releasing.

2,165,157

HANGER

John Anthony Smith, Spokane, Wash.

Application March 6, 1937, Serial No. 129,479
2 Claims. (Cl. 129—16.7)



1. In combination a substantially U-shaped member disposed with the legs thereof substantially horizontal and the bight thereof vertical, a pair of lugs integral with said member and positioned one at an end of one leg and the other at the bight of the member, and a clip embracing said one leg and a portion of the bight thereof inwardly of said lugs.

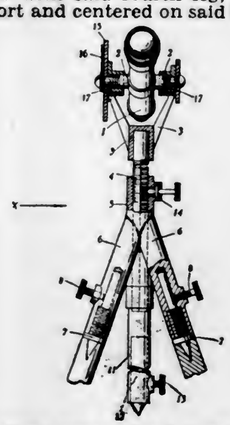
2,165,158

TELESCOPE

Rodolphe Stagl, Brussels, Belgium

Original application October 2, 1935, Serial No. 43,282. Divided and this application November 15, 1937, Serial No. 174,724. In Germany October 2, 1934
2 Claims. (Cl. 33—70)

1. A device for use by architects, sculptors and the like comprising a tripod having supporting legs of adjustable length and a fourth leg extensible into contact with the ground between said supporting legs, a telescope, a vertically slidable support for said telescope mounting the same to turn about a horizontal axis, means for lifting and lowering said support into and out of contact with said fourth leg, a dial fixed to said support and centered on said horizontal axis,



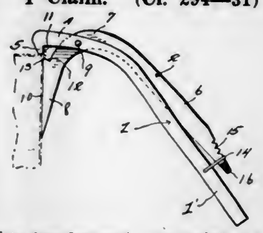
and indicating means fixed to said telescope to move over said dial.

2,165,159

CAN HANDLING TOOL

Vereau L. Stathem, Riverdale, Calif.

Application September 21, 1937, Serial No. 164,951
1 Claim. (Cl. 294—31)



A gripping implement, comprising an elongated body having a short jaw integral with and extending perpendicularly from one edge at one end thereof, the said jaw having a gripping face on the side remote from the adjacent end of the body and perpendicular to the adjacent portion of the body, a lever unit consisting of a length of flat material disposed against the body and having a bend therein adjacent one end to form a terminal portion extending across the body adjacent the jaw, a pivot pin passing through said body and through said lever unit in the bend of the latter, the portion of the lever between the bend and the adjacent end being relatively long and having a shoulder formed in the edge nearest the jaw and directed toward the same for coaction therewith, the gripping edges of the jaw and shoulder being in vertically spaced relation whereby the jaw and shoulder may cooperate to grip a can flange the said edge of the lever from the shoulder to the adjacent end extending obliquely across the length of the said portion to provide a body engaging surface which is parallel with but offset from the jaw gripping face when the jaw and shoulder are in gripping relation.

2,165,160

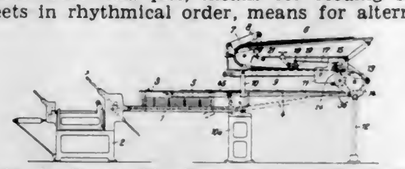
AUTOMATIC FEEDING DEVICE

Georg Spiess, Leipzig, Germany

Application June 28, 1937, Serial No. 150,811
In Germany July 6, 1936
5 Claims. (Cl. 271—38)

1. A device for automatically feeding sheets of paper or the like from a pile to a sheet working machine, including a uni-directional rotating

control shaft for driving said device, conveying means for said sheets, means for separating said sheets from said pile, means for feeding said sheets in rhythmical order, means for alternatively feeding said sheets in non-rhythmical order, means for advancing said sheets in both spaced and overlapping order, and means for regulating said degree of overlapping.

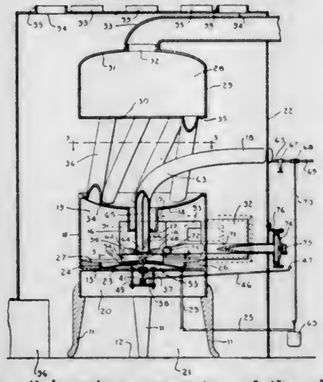


2,165,161
FEED TABLE
Georg Spiess, Leipzig, Germany
Application April 25, 1938, Serial No. 204,231
In Germany April 30, 1937
2 Claims. (Cl. 271—52)



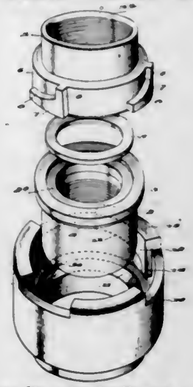
1. A feed table for transferring sheets from a folding mechanism to a cross folder and including a guide rail, a series of feed rollers inclined to said guide rail and over which the fed sheets are translated, a series of pressure inducing means each associated with a respective feed roller and each having a shaft, gearing means connecting the respective feed rollers and pressure inducing means, said gearing means including a shaft supported friction wheel removably mounted on the respective shaft, and means for regulating the pressure between said friction wheel and feed roller.

2,165,162
OIL BURNING FURNACE
Bertrand P. Thornton, Lawrence, Kans., assignor, by direct and mesne assignments, to General Heating Equipment Company, Kansas City, Mo., a common-law trust
Application March 31, 1937, Serial No. 134,075
Renewed November 28, 1938
7 Claims. (Cl. 158—53)



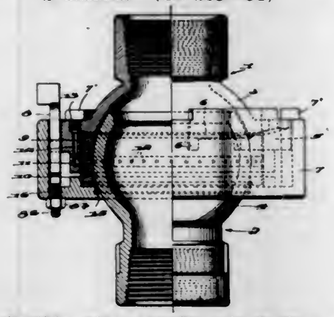
1. An oil burning apparatus of the character described, comprising a rotatably mounted member having an annular body portion, curved blades on the upper surface of said annular body portion, a cover over said blades having a central opening, an air conduit extending downwardly into proximity to said opening and discharging air into the same, an oil supply pipe in said air conduit extending into proximity to said central opening, and deflector means mounted centrally of said annular body portion directing said oil and air outwardly toward said blades.

2,165,163
PIPE COUPLING
Millard F. Waters, Tulsa, Okla., assignor to Hanlon-Waters, Inc., Tulsa Okla.
Application April 25, 1938, Serial No. 204,153
3 Claims. (Cl. 285—175)



1. A pipe coupling including a pair of opposed members adapted for engagement in end to end relation, a coupling collar adapted to embrace said members, means on said collar for engaging one of said members, outwardly projecting wedging lugs on the periphery of the other of said members, oppositely disposed complementary wedging lugs on the inner periphery of said collar cooperating with said first named lugs upon the rotation of said collar, opposed inclined abutments on the flaring ends of the respective lugs, and a tightening wedge adapted to be interposed between adjacent opposed abutments for rotating said collar and effecting engagement of said lugs.

2,165,164
FLEXIBLE PIPE COUPLING
Millard F. Waters, Tulsa, Okla., assignor to Hanlon-Waters, Inc., Tulsa, Okla.
Application May 5, 1938, Serial No. 206,283
2 Claims. (Cl. 285—91)



1. A flexible pipe coupling including a pair of coupling sections, an annular concave socket member on one end of one section, an annular convex member on the adjacent end of the other section adapted to seat within said socket member and capable of lateral movement with respect thereto, a coupling collar adapted to embrace said sections, concave means on said collar for engaging a complementary portion on one of said sections, outwardly projecting wedging lugs on the periphery of the other of said sections, oppositely disposed complementary wedging lugs on the inner periphery of said collar cooperating with said first named lugs upon the rotation of said collar, opposed abutments on the flaring ends of the respective lugs, and means for applying a rotational force directly behind selected wedging lugs, comprising a tightening wedge interposed between the respective opposed abutments.

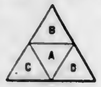
2,165,165
METHOD OF SEPARATING ORTHO- AND PARA-AMINO-ETHYL-BENZENES
Robert R. Dreisbach and James Day, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application November 1, 1937, Serial No. 172,160
6 Claims. (Cl. 260—582)

1. In a method of separating ortho- and para-amino-ethyl-benzene from a mixture thereof, the steps which comprise dissolving the same in a dilute mineral acid and precipitating a salt of para-amino-ethyl-benzene from the solution by treating the same with a water-soluble ferrocyanide.

2,165,166
BLUE PRINT COATING
Garnet Philip Ham, Old Greenwich, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application July 16, 1938, Serial No. 219,599
6 Claims. (Cl. 95—6)

1. A blue print coating composition comprising a light sensitive ferric salt, a soluble ferricyanide and an amidine salt in an effective amount.

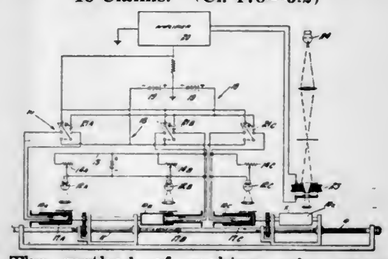
2,165,167
PROCESS OF COLOR REPRODUCTION
Arthur C. Hardy, Wellesley, Mass., assignor to Interchemical Corporation, a corporation of Ohio
Application September 4, 1936, Serial No. 99,416
7 Claims. (Cl. 88—14)



1. A method of ascertaining the spectral quality of a primary of a standard color reproduction system, which consists in making a combination in accordance with said system of the colored materials to be used in the reproduction in which each colored material has a selected density, making another combination of said colored materials in which all but one of the colored materials have the same density as in the first combination and that one colored material has a density sufficiently different from that which it had in the first combination to give the second combination a color measurably different from that of the first combination, measuring the spectral energy distribution of each of said colors, and subtracting the smaller of said two spectral energy distributions from the larger to obtain the spectral energy distribution of a primary of the reproduction system.

5. A method of ascertaining the spectral quality of a primary of a system of color reproduction by printing from half-tone plates, which consists in making a first print by printing superimposed impressions of a number of colored inks, each of which is printed from a half-tone plate having a selected dot density, making a second print by printing three superimposed impressions of said colored inks in which all but one of the colored inks are printed from plates of the same dot density as the plates used for these inks in the first print and that one colored ink is printed from a plate having a dot density sufficiently different from that of the plate from which it was printed in the first print to make the color of the second print measurably different from the color of the first print, measuring the spectral energy distributions of the colors of said prints, and subtracting the smaller of said two spectral energy distributions from the larger to obtain the spectral energy distribution of a primary of the reproduction system.

2,165,168
COLOR REPRODUCTION
Arthur C. Hardy, Wellesley, Mass., assignor to Interchemical Corporation, a corporation of Ohio
Application January 21, 1937, Serial No. 121,466
Renewed February 2, 1939
18 Claims. (Cl. 178—5.2)



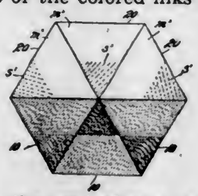
1. The method of making color-separation images for color reproduction, which consists in first making three master images adapted to control a set of three primaries, and then making three different additive and subtractive combinations of the three master images to produce three color-separation images adapted to control a set of three different primaries.

2,165,169
MEANS FOR DETERMINING THE PRIMARIES IN A SYSTEM OF COLOR REPRODUCTION BY PRINTING
Francis Lewis Wurzburg, Jr., Bronxville, N. Y., assignor to Interchemical Corporation, a corporation of Ohio
Application September 28, 1936, Serial No. 102,957
Renewed October 11, 1938
5 Claims. (Cl. 88—14)

1. Means for use in determining the primaries of a color reproduction system by printing, comprising a printing block having a lined printing surface in the form of an equilateral triangle, said surface being so formed as to print a different density of ink from two parts of its printing surface, which consist respectively of an equilateral triangular area constituting one-quarter of the printing surface and a contiguous trapezoidal area constituting three-quarters of the printing surface, the lines being parallel throughout the whole printing surface.

3. A differential print for determining the primaries of a color reproduction system, consisting of superposed lined impressions of three differ-

ently colored inks and having a central triangular area in which each ink has a selected density, and three adjacent triangular areas in each one of which two of the colored inks have the same



density as in the central area and one colored ink has a density slightly different from that which it has in the central area, the lines of the three impressions crossing each other at angles of 60°.

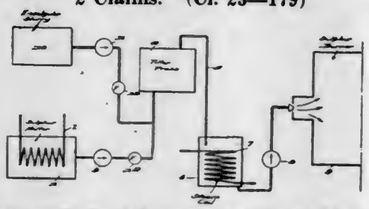
2,165,170

PURIFICATION OF SULPHUR

Napoleon Arthur Laury, Rockville Centre, N. Y., assignor to The Calco Chemical Company, Inc., Bound Brook, N. J., a corporation of Delaware

Application May 6, 1938, Serial No. 206,451

2 Claims. (Cl. 23—179)



1. A method of burning sulphur which comprises melting crude sulphur containing liquid carbonaceous impurities, filtering the molten sulphur containing the liquid carbonaceous impurities through a refractory filter cloth in the absence of any substantial quantities of decolorizing adsorbents to remove liquid carbonaceous impurities therefrom, maintaining the filtered sulphur in molten state, introducing the molten, filtered sulphur into a sulphur burner and burning it therein.

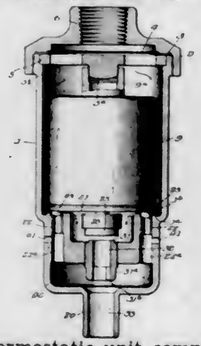
2,165,171

THERMOSTATICALLY OPERATING DEVICE

Roy H. Zinkil, Oak Park, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois

Application May 14, 1936, Serial No. 79,665

3 Claims. (Cl. 236—93)



1. In a thermostatic unit comprising a casing having an inlet and an outlet, a cup member adjustably carried within the said casing, a tubular corrugated wall within the said cup, a head secured to one end of the said wall, the space between the said head, wall and cup constituting a thermostatic vessel, a valve for the said outlet, means operatively connecting said valve and said head, drain means extending from the interior of the said cup and having ported means for being actuated by the aspiratory effect of the discharge of liquid therefrom into the said outlet.

2,165,172

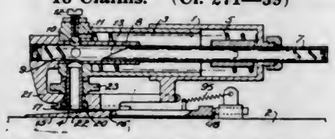
SHEET-FEEDING MACHINE

Headley Townsend Backhouse, London, England

Application November 30, 1936, Serial No. 113,425

In Great Britain December 6, 1935

18 Claims. (Cl. 271—59)



1. A sheet feeding machine of the type comprising a feed board over which sheets are to be fed, a side gauge, a sucker for gripping the sheet, and pneumatic means for exhausting the air from said sucker and moving the sucker transversely to draw the sheet sidewise up to said gauge for the purpose of effecting lateral registration of the sheet.

2,165,173

IMPREGNATION OF BAUXITE

Blakeslee Barnes, New York, N. Y., assignor to Chemical Construction Corporation, New York, N. Y., a corporation of Delaware

Application September 22, 1937, Serial No. 165,046

8 Claims. (Cl. 23—142)

1. A method of producing bauxite impregnated with coke which comprises heating bauxite to temperatures substantially in excess of those necessary for the decomposition of acid sludge, intimately admixing the hot bauxite with acid sludge whereby sulfur dioxide is evolved and coke is formed, and withdrawing the mixture of bauxite and coke.

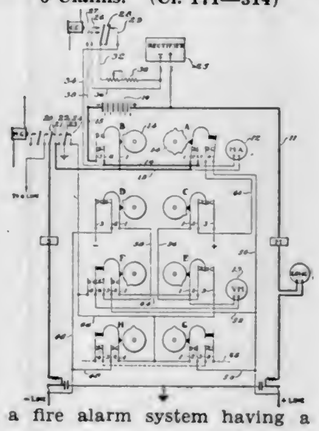
2,165,174

FIRE ALARM SYSTEM

Frank R. Bridges, Needham, and Foster E. Weld, Newton, Mass., assignors to The Gamewell Company, Newton Upper Falls, Mass., a corporation of Massachusetts

Application July 3, 1936, Serial No. 88,801

6 Claims. (Cl. 171—314)



1. In a fire alarm system having a battery

and a line, an ammeter, charging means for the battery, a trickle charge circuit and a high-rate charge circuit, an ammeter switch for selectively cutting the ammeter into the trickle charge circuit or the line, and charge control means for connecting the battery with either charge circuit and having provision for preventing connection of the ammeter into the high-rate charge circuit.

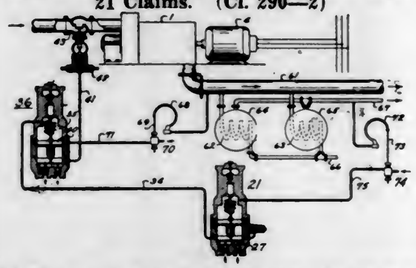
2,165,175

CONTROL SYSTEM

Paul S. Dickey and Jack F. Shannon, Cleveland, Ohio, assignors to Bailey Meter Company, a corporation of Delaware

Application July 31, 1936, Serial No. 93,668

21 Claims. (Cl. 290—2)



15. In combination with an electric generator driven by a prime mover to which vapor is admitted at a relatively high pressure and exhausted therefrom at a relatively low pressure, means for normally regulating the rate of flow of high pressure vapor to the prime mover to maintain said exhaust pressure at a predetermined value, and means for decreasing the rate of flow of high pressure vapor only when the power output of the generator attains or exceeds a predetermined maximum value.

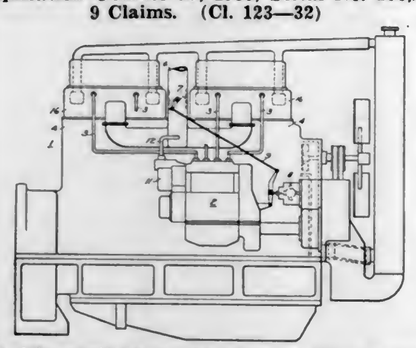
2,165,176

INTERNAL COMBUSTION ENGINE

Nicholas Fodor, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application October 19, 1936, Serial No. 106,265

9 Claims. (Cl. 123—32)



1. The method of obtaining positive ignition and orderly burning at a rate insufficient to produce detonation in a low compression, solid injection engine having timed ignition and a charge forming chamber which comprises maintaining a portion of the charge confining surface of the chamber at an oil vaporizing temperature and providing a confined atmosphere of air in contact with said surface, compressing the confined air to a pressure insufficient to produce self-ignition, spraying and distributing oil during the latter stages of the compression of the confined air and under all conditions of load and speed throughout the air confined within said chamber to form a uniform mixture, and when the spraying of oil ceases immediately initiating burning in that portion of the mixture in proximity to the vaporizing surface whereby the highly vaporized portion of the mixture in proximity to said surface is ignited before material movement or diffusion thereof and combustion progresses from the hotter and more highly vaporized to the cooler and less vaporized portions of the mixture.

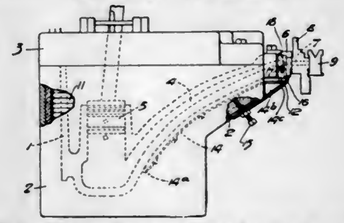
2,165,177

METAL POT FOR SLUG CASTING MACHINES

Edmund M. Goodbody, Bellerose, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York

Application September 15, 1938, Serial No. 230,101

3 Claims. (Cl. 22—71)



1. In a slug casting machine having a metal pot with an elongated mouthpiece, a yieldable electric heater disposed longitudinally of the mouthpiece and having resilient means for holding it normally in intimate contact therewith over the entire length thereof, and adjustable means on the mouthpiece adapted in one position of adjustment to cooperate with the heater to yieldingly move a portion only thereof out of contacting relation with a corresponding portion of the mouthpiece in opposition to said resilient holding means.

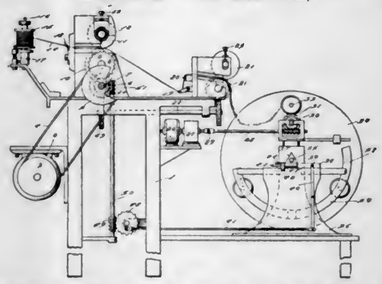
2,165,178

METHOD OF MAKING A RESILIENT METALLIC BUNCH

Sylvester W. Grater, Philadelphia, Pa., assignor to John W. Gottschalk Mfg. Company, Philadelphia, Pa., a corporation of Pennsylvania

Application November 4, 1938, Serial No. 238,754

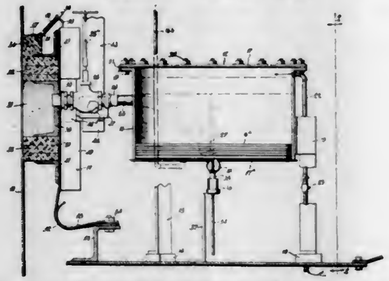
4 Claims. (Cl. 140—71)



1. The method of forming a flexible and resilient metallic bunch from a tensioned, coreless, helically curled, metallic strand, which consists in winding the strand in a tensioned released and unstretched condition around a reel, stretching the wound material after the winding operation

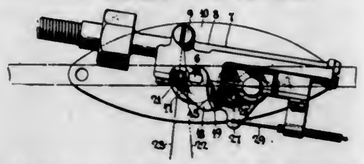
is completed, into the form of an elongated skein to cause an interlocking of coils of adjacent turns, releasing the skein to form a bunch, and exerting a pressure against the material of the bunch to cause a more thorough interlocking of coils of adjacent strands throughout the area of the bunch.

2,165,179
SEALING MEANS FOR GAS HOLDERS
William E. Gruening, Cincinnati, Ohio, assignor to The Stacey Brothers Gas Construction Company, Cincinnati, Ohio, a corporation of Ohio
Application February 12, 1938, Serial No. 190,273
14 Claims. (Cl. 48—176)



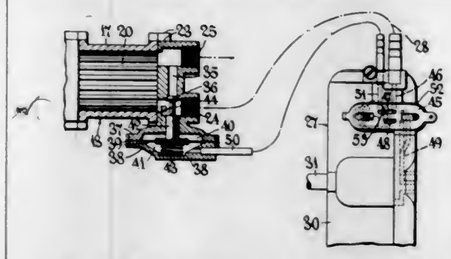
11. A gas holder comprising, a holder shell, a floating piston, said piston having a sealing ring in sliding sealing engagement with the wall of said holder, said sealing ring including an annular groove open to said wall and adapted to contain a non-gaseous mobile medium to seal said ring, a closed container for said sealing medium, a slidable piston in said container subdividing said container into a mobile medium chamber and a pressure chamber respectively, a conduit in connection with said annular groove and with the mobile medium chamber, a gas conduit in connection with the pressure chamber and with the gas storage space beneath said floating piston, whereby the pressure of the stored gas is utilized to operate said piston and force said mobile medium from said chamber to said annular groove and maintain said medium at a pressure substantially equal to that of the stored gas.

2,165,180
SELF-PARKING WINDSHIELD WIPER
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application August 30, 1935, Serial No. 38,610
10 Claims. (Cl. 15—255)



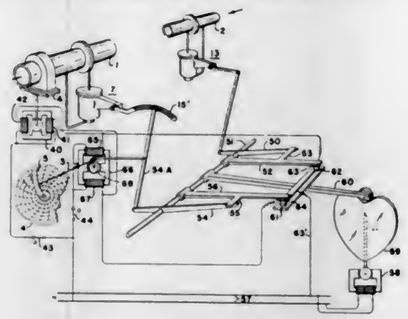
1. Mechanism of the character described, comprising, an actuating shaft, a drive for the shaft, an adjustable support for the shaft, transmission means operatively connecting the drive to the shaft and including a clutch for disconnecting the drive from the shaft, the transmission means having intermeshing power transmitting elements, means for arresting the driven one of said elements, means mounting the driving one of said elements for bodily riding on the driven element when so arrested, the driving element being operatively connected to the clutch for rendering the clutch inoperative to disconnect the drive from the shaft, and manual means for presetting the second means for operation and concurrently shifting said support.

2,165,181
MOTOR VEHICLE ACCESSORY SYSTEM
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application December 22, 1936, Serial No. 117,179
13 Claims. (Cl. 60—60)



1. In a fluid pressure transmission system, a fluid pressure generator of varying output having inlet and exhaust ports, a communicating passage extending therebetween, a valve for controlling the communication between said ports, means sensitive to the pressure differential between the inlet and exhaust ports of said pump for controlling the degree of opening of said valve to render said pressure differential substantially constant, a fluid pressure sensitive device associated with said fluid pressure generator, and means for rendering said device selectively active and inactive and for simultaneously rendering said fluid pressure sensitive control means inactive and active respectively.

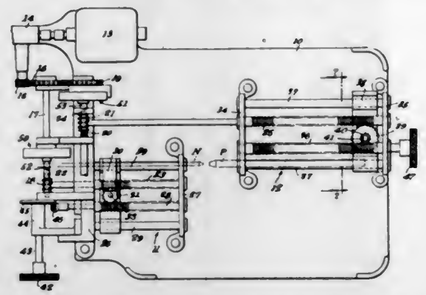
2,165,182
MEASURING AND CONTROLLING APPARATUS
John F. Luhrs, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application September 11, 1937, Serial No. 163,447
22 Claims. (Cl. 235—61)



1. Apparatus for determining the ratio between two variables comprising a lever angularly displaced about a fulcrum from an initial position in accordance with the magnitude of each variable, means for periodically establishing electric impulses of a time length proportional to the displacement of a predetermined point on one of said levers from the initial position, means for periodically establishing electric impulses of a time length proportional to the displacement of a selected point on the other of said levers, and means under the joint control of said impulses for varying the point selected on said last named lever until said impulses are of identical length, whereby the radial distance of said finally selected point from the fulcrum is a measure of the ratio of said variables.

21. A torque amplifying mechanism for positioning an output shaft in correspondence with the magnitude of a variable, comprising in combination, a motor having opposed windings which when simultaneously energized do not urge said motor to rotation, but when either is energized alone urges the motor to rotation in opposite direction each from the other, an electric circuit for each of said windings, an output shaft driven by said motor, a first contact member positioned in correspondence with the magnitude of the variable and connected in circuit with one of said windings, a second contact member connected in circuit with the other of said windings and operatively connected to said output shaft and positioned in correspondence with the position thereof, a cam, means for rotating said cam through a series of successive cycles, a circuit closer reciprocated by said cam and arranged to engage each of said contact members for a portion of each cycle corresponding to the position thereof whereby said motor is rotated during each cycle an amount corresponding to the difference in time duration of engagement of said circuit closer with said contact members and said second contact member is positioned in a sense to restore correspondence of position with said first contact member.

2,165,183
CARBON MOVING AND CONTROLLING DEVICE
Sidney Nickelsburg, New York, N. Y., assignor to Morelite Company, Inc., New York, N. Y.
Application March 12, 1938, Serial No. 195,566
12 Claims. (Cl. 176—73)

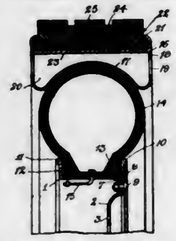


1. A carbon feeding device comprising a power-driven feed screw, a hand-driven feed screw, a carbon holder, means for guiding the movement of said carbon holder, and gear means carried by said holder and having peripheral operative engagement with both the feed screws whereby movement of the power-driven feed screw causes said gearing to traverse the manually movable screw to move said carbon holder along its guide means, and whereby movement of the manually movable screw causes said gearing to traverse the power-driven feed screw to move said carbon holder along its guide means.

2,165,184
PROCESS FOR PRODUCING ASCORBIC ACID
Richard Pasternack, Brooklyn, N. Y., and Peter P. Regna, North Bergen, N. J., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a corporation of New Jersey
No Drawing. Application August 31, 1938, Serial No. 227,666
6 Claims. (Cl. 260—344)

1. Process for the conversion of esters of 2-keto gulonic acid to ascorbic acid which comprises subjecting an ester of 2-keto gulonic acid in a solution containing water to the action of metallic magnesium.

2,165,185
VEHICLE WHEEL
José Suris, Habana, Cuba
Application January 14, 1938, Serial No. 184,959
In Cuba October 13, 1937
1 Claim. (Cl. 152—56)



In a wheel having a primary rim and a pneumatic tire mounted on said rim, an auxiliary rim being formed of metal and provided with a portion arc-shaped in cross section fitting against said tire, side apertured portions upstanding from said arc-shaped portion, a tire-supporting band carried by said side portions intermediate their radial height, a solid rubber tire mounted on said tire-supporting band, and inwardly extending flanges carried by said upstanding portions overlapping part of said solid rubber tire for clamping the tire in place.

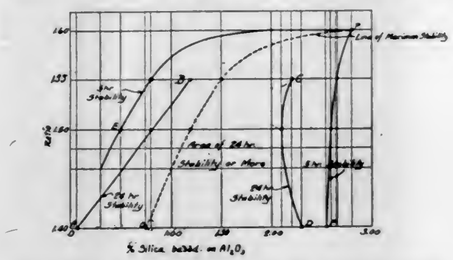
2,165,186
WATER-RESISTANT ABRASIVE PRODUCT AND METHOD OF MAKING SAME
Charles R. Walker, South Braintree, Mass., assignor to Abrasive Products, Inc., South Braintree, Mass., a corporation of Massachusetts
No Drawing. Application November 7, 1936, Serial No. 109,747
2 Claims. (Cl. 51—280)

1. A flexible abrasive product comprising a backing, an abrasive material bonded to said backing by an initially water-absorbing adhesive rendered water resistant by the action of a chromium compound, and having a protective coating of a resinous material which is obtained from cashew nut shell oil, said product having a life under wet usage comparable to abrasive products having initially non-water-absorbing nitrocellulose bonding agents.

2,165,187
MANUFACTURE OF SODIUM ALUMINATE
William S. Wilson, Boston, and Alban J. Lobdell, Jr., Woburn, Mass., assignors, by direct and mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
Application December 26, 1935, Serial No. 56,184
11 Claims. (Cl. 23—52)

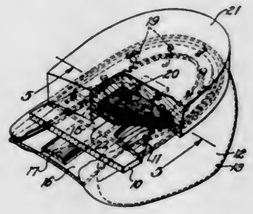
1. An article of manufacture—sodium alumi-

nate having an Al_2O_3/Na_2O weight ratio of substantially 1.4, an aqueous solution of which is



relatively stable and further characterized in that it contains substantially .5% SiO_2 based on total solids.

2,165,188
SHOE
Edward W. Wilkinson and George D. Hurd, Wakefield, Mass., assignors to L. B. Evans' Son Company, Wakefield, Mass., a corporation of Massachusetts
Application December 4, 1937, Serial No. 178,136
2 Claims. (Cl. 36—24.5)

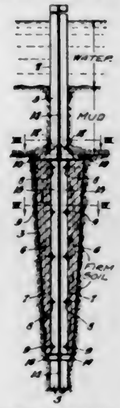


1. A shoe comprising a short sole terminating in a heel tongue of reduced width; a shank piece shaped to cover the heel end of the shoe; a metallic stiffener attached to the underside of the shank piece and having an end extended rearwardly beyond the tongue of the sole; an upper including a counter secured to the shank piece; a tuck secured to the lower margins of said counter, said tuck being in engagement with the underside of the rearwardly extended end of the metallic stiffener; and a fastener passing through the tongue of the sole, the tuck, and the metallic stiffener, and having one end embedded in the shank piece.

2,165,189
MANUFACTURE OF NORMAL FERRIC SULPHATE
William S. Wilson, Brookline, and John F. White, Somerville, Mass., assignors, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application May 16, 1934, Serial No. 725,902
15 Claims. (Cl. 23—126)

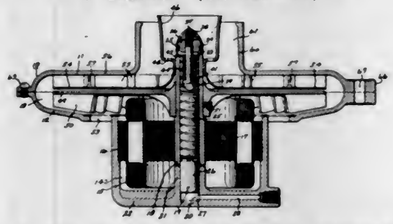
5. The method of making normal ferric sulphate which comprises reacting sulphuric acid in concentrated form with ferric oxide until at least 27% of the total sulphate is present in combined form as normal sulphate, diluting the sulphate until all of the precipitated acid sulphate which is formed is brought into solution, then adding sufficient ferric oxide to react with the remainder of the free acid.

2,165,190
BEARING PILE CONSTRUCTION
Gerald G. Greulich, Mount Lebanon, Pa.
Application November 23, 1938, Serial No. 242,086
2 Claims. (Cl. 61—53)



1. A steel bearing pile having an H or I-shaped cross-section, oppositely disposed lagging members abutting the edges of the flanges of said bearing pile and forming a hollow chamber in that portion of the longitudinal length of said bearing pile adjacent said lagging members, metal battens positioned between the flanges on each side of the web of said bearing pile and welded thereto, said lagging members secured to said metal battens and means for closing the hollow chamber at the top and bottom, said means including metallic angle-iron caps positioned between the flanges of said H or I-shaped beam member and welded to the flanges and web thereof.

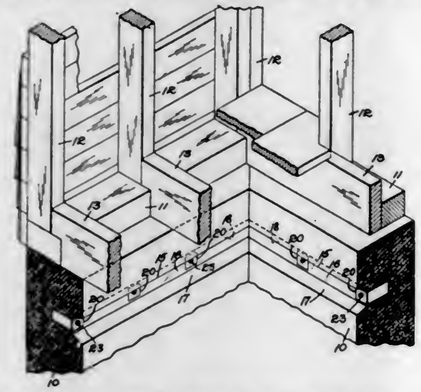
2,165,191
FUEL BURNER
Andrew A. Kucher, Dayton, Ohio
Application June 24, 1936, Serial No. 87,096
7 Claims. (Cl. 158—77)



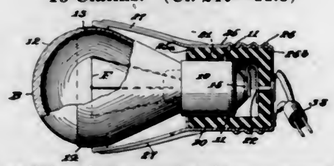
1. A fuel burner comprising in combination, a mixing chamber, a fuel pump for pumping fuel to said chamber, a blower for forcing air to said chamber, a single motor for driving both said pump and said blower, all of said elements including the chamber, pump, blower and motor having a common axis, and said pump being arranged within said blower.

2,165,192
INSECT INSULATION FOR FOUNDATION STRUCTURES
Donald M. Muirhead, Duxbury, Mass.
Application August 12, 1938, Serial No. 224,475
7 Claims. (Cl. 72—77)

2. In building construction, in combination, a foundation having at a face thereof which is to be shielded against upward passage of insects at least a course portion formed of concrete, said concrete portion having formed continuously along an external face an outwardly open substantially horizontal channel, a metallic shielding strip having one longitudinal side portion inserted into and anchored in said channel in such manner as to leave accessible a longitudinal area of concrete within the channel and immediately along said inserted strip portion, concrete-forming means applied to the concrete of said area within the channel and providing a concrete-to-concrete bond sealing the inserted strip portion against passage by insects between it and the concrete of the channel, and said shielding strip having its other longitudinal side portion projecting outwardly from the channel and standing clear beyond the face of the foundation adequately to block upward passage of insects across it externally of the channel.

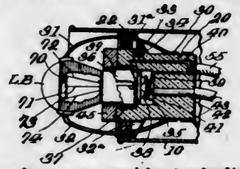


2,165,193
SAFETY ELECTRIC MINE LAMP
William Knapp Wilbur, Bluefield, W. Va., and George C. Nelms, Pittsburgh, Pa., assignors to Portable Lamp & Equipment Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 15, 1935, Serial No. 31,488
Renewed October 8, 1938
15 Claims. (Cl. 240—11.3)



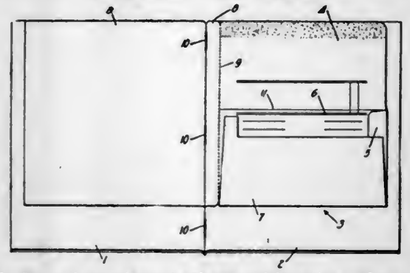
1. A safety electric mine lamp comprising an exposed electric light bulb having a base member and a light-transmitting bulb portion having a thick end section and a thinner section adjacent the maximum diamter; a holder including means engaged with said base member for holding said bulb fixedly against withdrawal movement along the axis of said base member and a guard extending above the bulb, and safety circuit breaking means including a resiliently pressed finger located between the bulb and guard and pressing against said bulb at a point at the thinner section thereof for crushing the bulb portion when cracked.

2,165,194
SAFETY MINE LAMP
William K. Wilbur, Bluefield, W. Va., assignor to Portable Lamp & Equipment Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application September 11, 1935, Serial No. 40,176
Renewed October 8, 1938
9 Claims. (Cl. 240—11.3)



1. A mine lamp assembly including an incandescent lamp bulb, a casing, and a bulb holder assembly including a structure having a cavity, a bulb sleeve supported by said structure and having an exposed peripheral flange, said bulb sleeve extending into the cavity, said structure having a second cavity for receiving a fuse, conductors on said structure for connecting the lamp and fuse in circuit, said second cavity normally being covered by said flange so that the flange holds the fuse in position.

2,165,195
ENVELOPE
Victor J. Sawdon, New York, N. Y.
Application January 9, 1935, Serial No. 984
4 Claims. (Cl. 281—3)

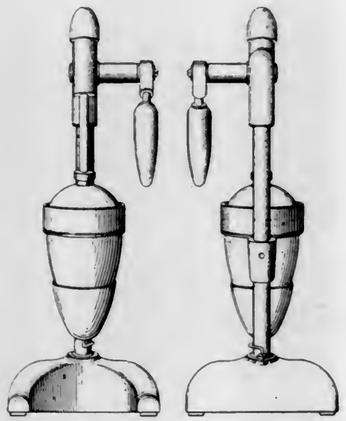


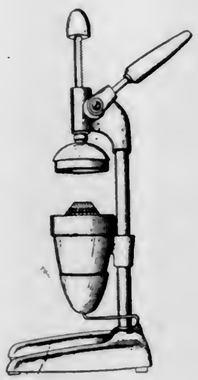
1. In a bound periodical publication, the combination with the leaves thereof, of means binding the leaves together, a complete envelope whose parts include a body panel, a back panel, a sealing flap having its upper edge substantially parallel to the line of fold of said flap, the height of said flap being a substantial portion of the height of the body panel, and means connecting the back panel with the body panel in juxtaposed relation thereto, and an envelope binding extension integral with the envelope, said binding extension forming a direct continuation of the body panel and the sealing flap and extending across the centers of gravity of said panel and of said flap and throughout the major portion of the combined height of said panel and flap and being divided from the envelope by an easy tear line and secured in the publication by the means which binds the leaves together.

DESIGNS

JULY 4, 1939

115,487
DESIGN FOR A FRUIT JUICE EXTRACTOR
James F. Barnes and Jean Otis Reinecke, Chicago, Ill., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application April 15, 1939, Serial No. 84,329
Term of patent 14 years





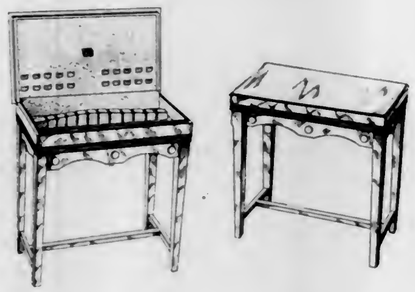
The ornamental design for a fruit juice extractor, as shown.

115,488
DESIGN FOR A TEXTILE FABRIC
Louis Bry, New York, N. Y.
Application March 20, 1939, Serial No. 83,690
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

115,489
DESIGN FOR A COMBINED CABINET AND END TABLE
Arthur A. Eisenberg, New York, N. Y., assignor to National Silver Company, New York, N. Y., a corporation of New York
Application April 20, 1939, Serial No. 84,425
Term of patent 3½ years



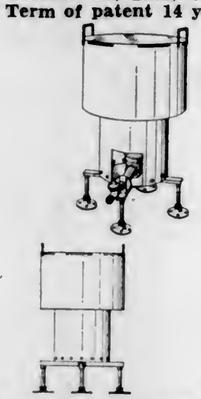
The ornamental design for a combined cabinet and end table, as shown.

115,490
DESIGN FOR A TEXTILE FABRIC
Daniel W. Farnsworth, New York, N. Y.
Application May 18, 1939, Serial No. 85,066
Term of patent 3½ years



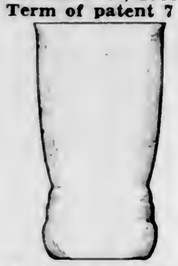
The ornamental design for a textile fabric, substantially as shown.

115,491
DESIGN FOR A STOVE OR SIMILAR ARTICLE
Percy M. Forster, Berkeley, Calif., assignor to Forster Manufacturing Co., Ltd., Berkeley, Calif., a corporation of California
Application October 10, 1938, Serial No. 80,350
Term of patent 14 years



The ornamental design for a stove or similar article, substantially as shown and described.

115,492
DESIGN FOR A TUMBLER
Edwin W. Fuerst, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 21, 1938, Serial No. 81,266
Term of patent 7 years



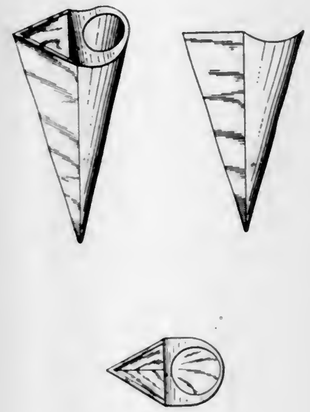
The ornamental design for a tumbler, substantially as shown and described.

115,493
DESIGN FOR A TUMBLER
Edwin W. Fuerst, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 21, 1938, Serial No. 81,268
Term of patent 7 years



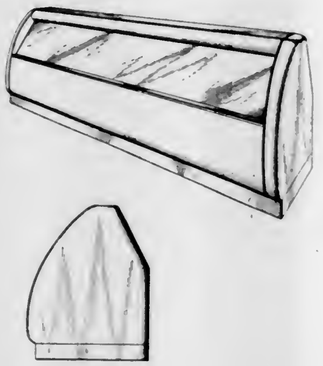
The ornamental design for a tumbler, substantially as shown and described.

115,494
DESIGN FOR AN ICE CREAM CONE
Benjamin Glass, New York, N. Y.
Application April 24, 1939, Serial No. 84,533
Term of patent 3½ years



The ornamental design for an ice cream cone, as shown.

115,495
DESIGN FOR A DISPLAY COUNTER
Edward L. Hayes, Detroit, Mich., assignor to Gratiot Fixture & Supply Co., Detroit, Mich., a corporation of Michigan
Application April 29, 1938, Serial No. 76,884
Term of patent 7 years



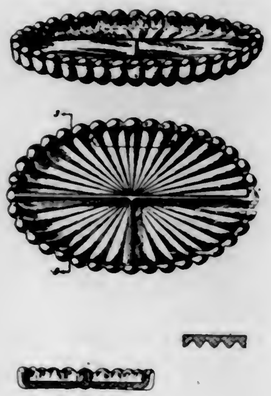
The ornamental design for a display counter, substantially as shown and described.

115,496
DESIGN FOR A TUMBLER
Melvin O. Hansen, Toledo, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 21, 1938, Serial No. 81,263
Term of patent 7 years



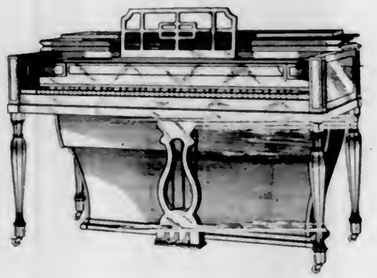
The ornamental design for a tumbler substantially as shown and described.

115,497
DESIGN FOR A GLASS RELISH DISH OR ARTICLE OF SIMILAR NATURE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application April 14, 1939, Serial No. 84,293
Term of patent 14 years



The ornamental design for a glass relish dish or article of similar nature, substantially as shown.

115,498
DESIGN FOR A PIANO
Henry R. Heiler, New York, N. Y., assignor to Winter & Co., New York, N. Y., a corporation of New York
Application February 19, 1938, Serial No. 75,279
Term of patent 7 years



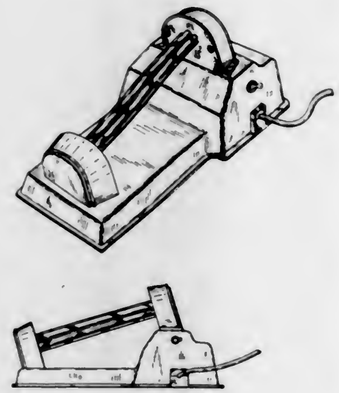
The ornamental design for a piano, as shown.

115,499
DESIGN FOR A PIANO
Henry R. Heiler, New York, N. Y., assignor to Winter & Co., New York, N. Y., a corporation of New York
Application February 19, 1938, Serial No. 75,281
Term of patent 7 years



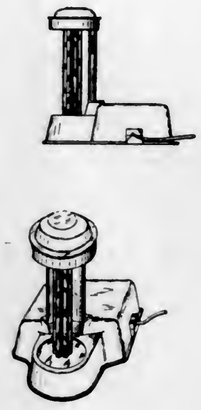
The ornamental design for a piano, as shown.

115,500
DESIGN FOR AN OZONE MACHINE
John E. Kenney, Portland, Oreg.
Application May 6, 1939, Serial No. 84,833
Term of patent 7 years



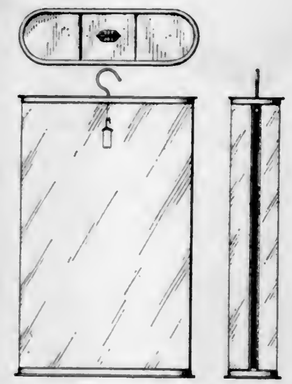
The ornamental design for an ozone machine, as shown.

115,501
DESIGN FOR AN OZONE MACHINE
John E. Kenney, Portland, Oreg.
Application May 6, 1939, Serial No. 84,834
Term of patent 7 years



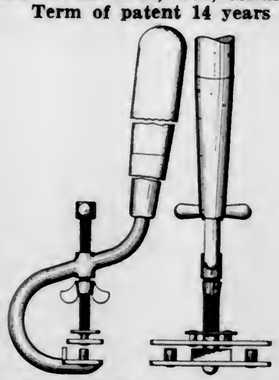
The ornamental design for an ozone machine, as shown.

115,502
DESIGN FOR A TRANSPARENT MOTHPROOF GARMENT CONTAINER
William R. Kohl, Glen View, Ill.
Application November 3, 1938, Serial No. 80,970
Term of patent 14 years



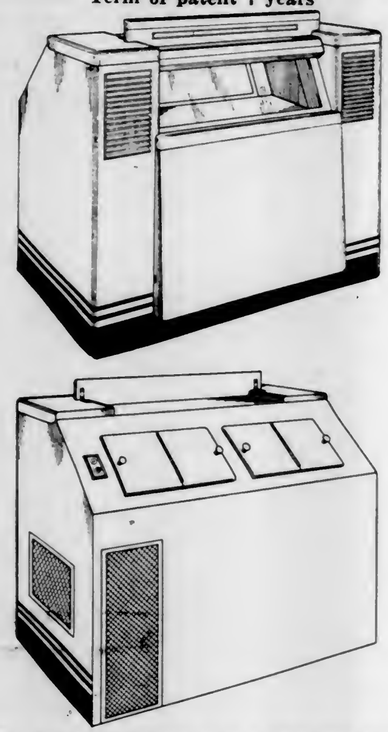
The ornamental design for a transparent mothproof garment container, as shown.

115,503
DESIGN FOR A TOOL HOLDER
Wallace K. Linyard, Memphis, Tenn.
Application November 21, 1938, Serial No. 81,254
Term of patent 14 years



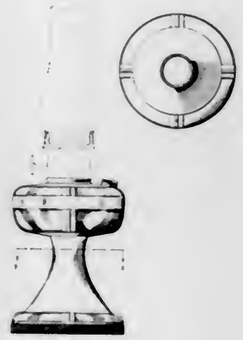
The ornamental design for a tool holder, substantially as shown and described.

115,504
DESIGN FOR A COMBINED STORAGE AND DISPENSING CABINET
Jacques Martial, New York, N. Y., assignor to Charles Q. Sherman, Mount Vernon, N. Y.
Application March 28, 1939, Serial No. 83,870
Term of patent 7 years



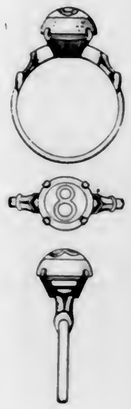
The ornamental design for a combined storage and dispensing cabinet, substantially as shown.

115,505
DESIGN FOR A LAMP
Ambrose D. Olds, Wichita, Kans., assignor to The Coleman Lamp and Stove Company, Wichita, Kans., a corporation
Application May 15, 1939, Serial No. 84,997
Term of patent 7 years



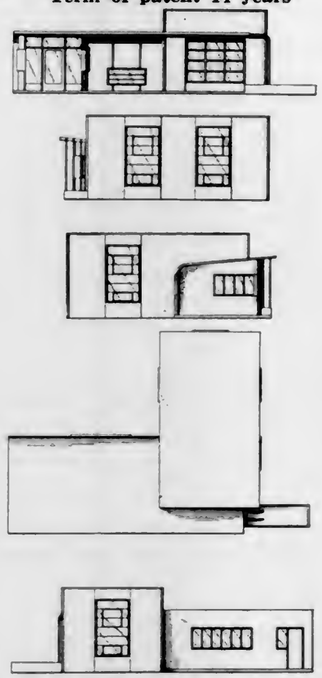
The ornamental design for a lamp, as shown and described.

115,506
DESIGN FOR A FINGER RING OR THE LIKE
John William Orian, New York, N. Y.
Application April 15, 1939, Serial No. 84,317
Term of patent 3½ years



The ornamental design for a finger ring or the like, as shown.

115,507
DESIGN FOR A BUILDING
Nathaniel A. Owings, Chicago, Ill., assignor to Stefco Steel Company, Michigan City, Ind., a corporation of Illinois
Application April 28, 1939, Serial No. 84,654
Term of patent 14 years



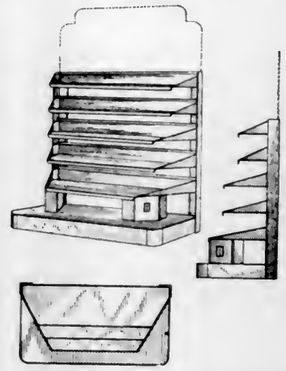
The ornamental design for a building, as shown.

115,508
DESIGN FOR A BICYCLE LAMP OR SIMILAR ARTICLE
Bernard J. Perry and Ralph P. Nomsen, Sioux City, Iowa
Application April 10, 1939, Serial No. 84,179
Term of patent 14 years



The ornamental design for a bicycle lamp or similar article, as shown.

115,509
DESIGN FOR A DISPLAY STAND
Rudolph Redlich, Chicago, Ill., assignor to Lacy Products Corp., Chicago, Ill., a corporation of Illinois
Application November 30, 1938, Serial No. 81,483
Term of patent 3½ years



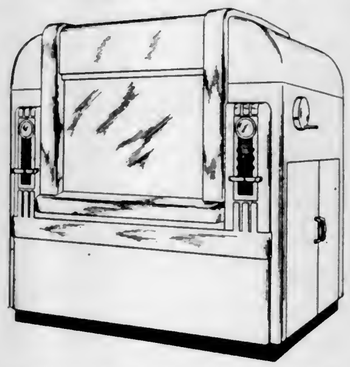
The ornamental design for a display stand, as shown.

115,510
DESIGN FOR A FINGER RING
Abraham Sager, Chicago, Ill.
Application January 20, 1939, Serial No. 82,456
Term of patent 14 years



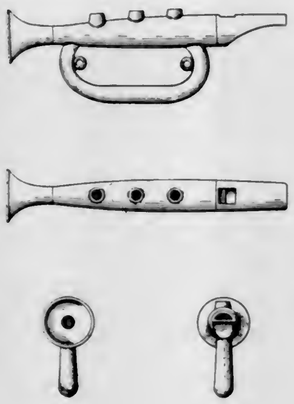
The ornamental design for a finger ring, as shown and described.

115,511
DESIGN FOR A DOUGH MIXER
Harold Van Doren, Toledo, Ohio, assignor to Baker Perkins Company, Inc., Saginaw, Mich., a corporation of New York
Application April 7, 1939, Serial No. 84,128
Term of patent 14 years



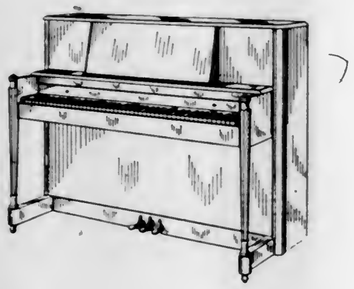
The ornamental design for a dough mixer, as shown and described.

115,512
DESIGN FOR A MUSICAL INSTRUMENT FOR PLAYING BUGLE CALLS OR THE LIKE
Charles E. Barber, Chicago, Ill., assignor to Chicago Musical Instrument Company, Chicago, Ill., a corporation of Illinois
Application April 17, 1939, Serial No. 84,346
Term of patent 14 years



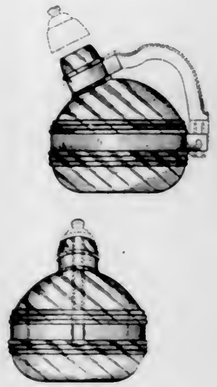
The ornamental design for a musical instrument for playing bugle calls or the like, as shown.

115,513
DESIGN FOR A PIANO CASE
Wilbur M. Day, Norwood, Ohio, assignor to The Baldwin Company, Cincinnati, Ohio
Application April 18, 1939, Serial No. 84,374
Term of patent 7 years



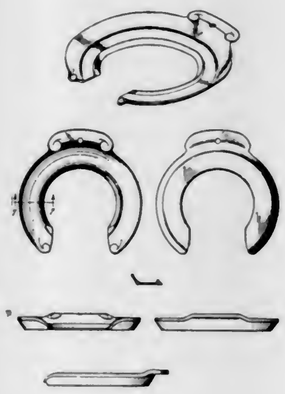
The ornamental design for a piano case, substantially as shown.

115,514
DESIGN FOR A GLASS TEAKETTLE
John G. Francis, Chicago, Ill., assignor to Chamberlain, Inc., Chicago, Ill., a corporation of Illinois
Application November 12, 1938, Serial No. 81,034
Term of patent 7 years



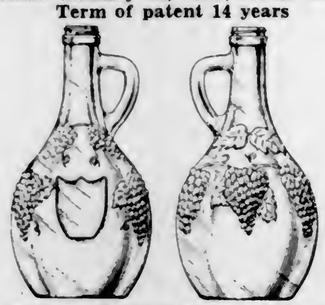
The ornamental design for a glass teakettle, as shown.

115,515
DESIGN FOR A LIFTER FOR PLATES, DISHES, OR THE LIKE
Morris W. Greenberg, Buffalo, N. Y.
Application March 21, 1939, Serial No. 83,734
Term of patent 14 years



The ornamental design for a lifter for plates, dishes, or the like, as shown.

115,516
DESIGN FOR A JUG
Jack L. Hendrickson, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application January 13, 1939, Serial No. 82,331
Term of patent 14 years



The ornamental design for a jug, as shown.

115,517
DESIGN FOR A BEVERAGE MIXER
Arley U. Hook, Fostoria, Ohio, assignor to Bersted Manufacturing Company, Fostoria, Ohio, a corporation of Ohio
Application March 28, 1939, Serial No. 83,883
Term of patent 7 years



The ornamental design for a beverage mixer, substantially as shown.

115,518
DESIGN FOR A RIBBON
Thomas H. Kinney, Bally, Pa., assignor to The Bally Ribbon Mills, Inc., Bally, Pa., a corporation of Pennsylvania
Application March 28, 1939, Serial No. 83,869
Term of patent 3½ years



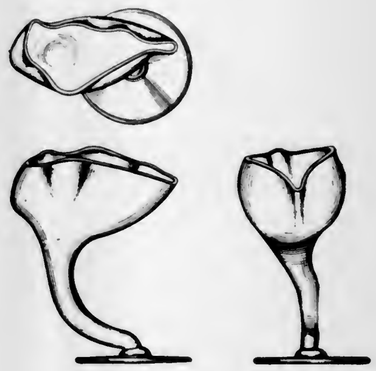
The ornamental design for a ribbon as shown.

115,519
DESIGN FOR A LIQUOR GOBLET
Mabel Moreau, Detroit, Mich.
Application November 28, 1938, Serial No. 81,422
Term of patent 3½ years



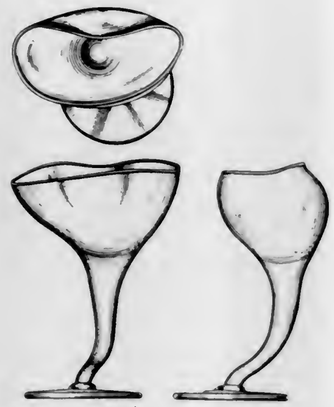
The ornamental design for a liquor goblet, substantially as shown.

115,520
DESIGN FOR A LIQUOR GOBLET
Mabel Moreau, Detroit, Mich.
Application November 28, 1938, Serial No. 81,423
Term of patent 3½ years



The ornamental design for a liquor goblet, substantially as shown.

115,521
DESIGN FOR A LIQUOR GOBLET
Mabel Moreau, Detroit, Mich.
Application November 28, 1938, Serial No. 81,424
Term of patent 3½ years



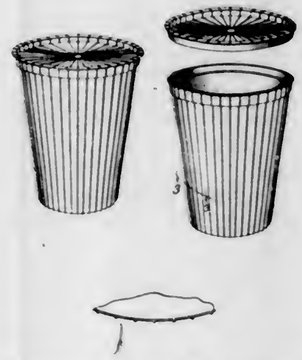
The ornamental design for a liquor goblet, substantially as shown.

115,522
DESIGN FOR A LIQUOR GOBLET
Mabel Moreau, Detroit, Mich.
Application November 28, 1938, Serial No. 81,425
Term of patent 3½ years



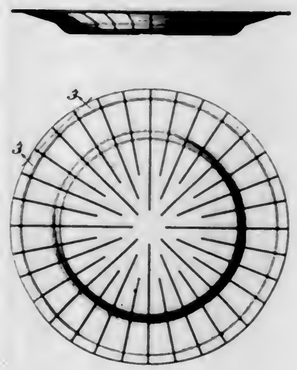
The ornamental design for a liquor goblet, substantially as shown.

115,523
DESIGN FOR A COMBINED MOLDED PULP CONTAINER AND COVER THEREFOR FOR A FOOD PRODUCT, DRINKING CUP, OR THE LIKE
Walter H. Randall, Waterville, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association, as trustee
Original application June 3, 1938, Serial No. 77,553. Divided and this application December 21, 1938, Serial No. 81,934
Term of patent 14 years



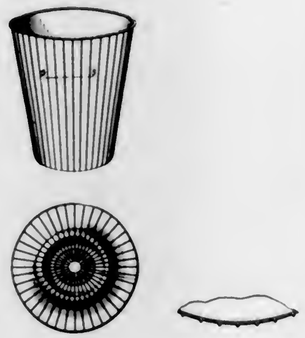
The ornamental design for a combined molded pulp container and cover therefor for a food product, drinking cup, or the like, as shown and described.

115,524
DESIGN FOR A MOLDED PULP PLATE OR THE LIKE
Walter H. Randall, Waterville, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association, as trustee
Application December 21, 1938, Serial No. 81,935
Term of patent 14 years



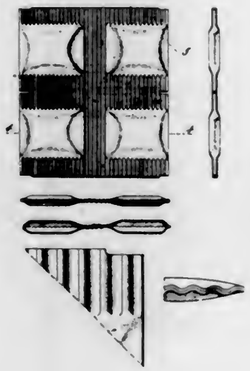
The ornamental design for a molded pulp plate or the like, as shown and described.

115,525
DESIGN FOR A MOLDED PULP CONTAINER FOR A FOOD PRODUCT, DRINKING CUP, OR THE LIKE
Walter H. Randall, Waterville, Maine, assignor, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, a national banking association, as trustee
Application June 3, 1938, Serial No. 77,553
Term of patent 14 years



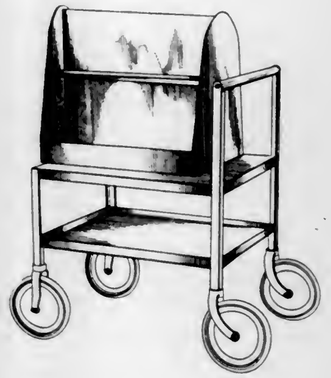
The ornamental design for a molded pulp container for a food product, drinking cup, or the like, as shown and described.

115,526
DESIGN FOR A MULTIPLE ENVELOPE OR SIMILAR PACKAGE
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application October 7, 1938, Serial No. 80,305
Term of patent 14 years



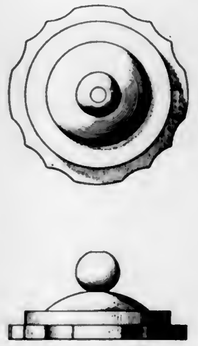
The ornamental design for a multiple envelope or similar package, as shown and described.

115,527
DESIGN FOR A LIBRARY TRUCK
Eliot R. Scudder, Braintree, Mass., assignor to Jarvis & Jarvis, Inc., Palmer, Mass., a corporation of Massachusetts
Application January 24, 1939, Serial No. 82,552
Term of patent 14 years



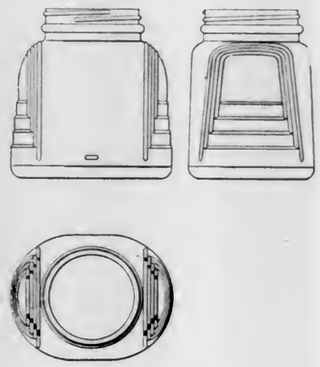
The ornamental design for a library truck, as shown and described.

115,528
DESIGN FOR A BASE FOR A DISPLAY STANDARD
Harry A. Silvers, Beverly Hills, Calif.
Application February 18, 1939, Serial No. 83,093
Term of patent 3½ years



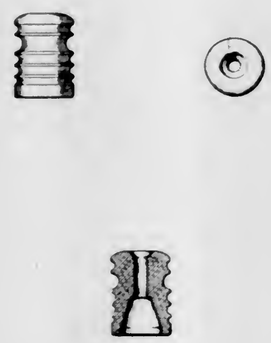
The ornamental design for a base for a display standard, as shown.

115,529
DESIGN FOR A JAR OR SIMILAR CONTAINER
George Smith, Jr., Olean, N. Y., assignor to Olean Glass Company, Olean, N. Y., a corporation of New York
Application November 8, 1938, Serial No. 80,953
Term of patent 7 years



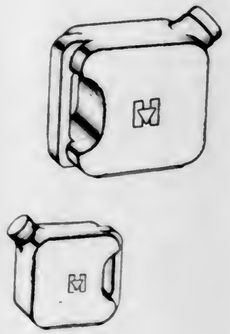
The ornamental design for a jar or similar container, substantially as shown.

115,530
DESIGN FOR A PORCELAIN INSULATOR
Ludwig A. Stohl, Sun Prairie, Wis.
Application January 21, 1939, Serial No. 82,503
Term of patent 7 years



The ornamental design for a porcelain insulator, as shown.

115,531
DESIGN FOR A WATER JUG OR SIMILAR ARTICLE
Walter T. Stopa, Chicago, Ill., assignor to Edison General Electric Appliance Company, a corporation of New York
Application December 14, 1938, Serial No. 81,783
Term of patent 14 years



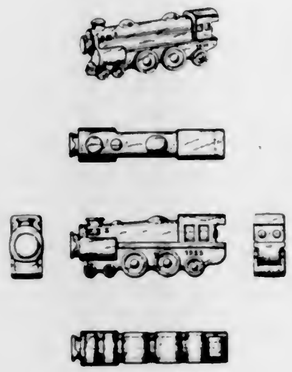
The ornamental design for a water jug or similar article, as shown.

115,532
DESIGN FOR A CANDY CONTAINER
Turney H. Stough, Jeannette, Pa.
Application March 21, 1939, Serial No. 83,732
Term of patent 3½ years



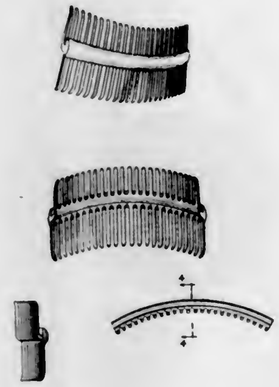
The ornamental design for a candy container, as shown.

115,533
DESIGN FOR A CANDY CONTAINER
Turney H. Stough, Jeannette, Pa.
Application March 21, 1939, Serial No. 83,733
Term of patent 3½ years



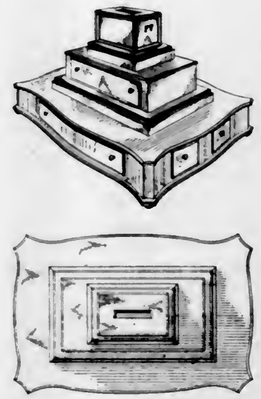
The ornamental design for a candy container, as shown.

115,534
DESIGN FOR A HAIR DRESS COMB OR SIMILAR ARTICLE
Lenora Twomey, New York, N. Y.
Application May 1, 1939, Serial No. 84,701
Term of patent 3½ years



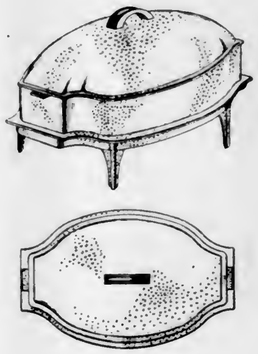
The ornamental design for a hair dress comb or similar article, as shown.

115,535
DESIGN FOR A CABINET OR SIMILAR ARTICLE FOR SMOKING TOBACCO AND GAME EQUIPMENT
Edward M. Williams, Detroit, Mich.
Application October 26, 1938, Serial No. 80,674
Term of patent 7 years



The ornamental design for a cabinet or similar article for smoking tobacco and game equipment, as shown and described.

115,536
DESIGN FOR A BROILER
Charles E. Zimmerman, Chicago, Ill.
Application September 12, 1938, Serial No. 79,845
Term of patent 3½ years



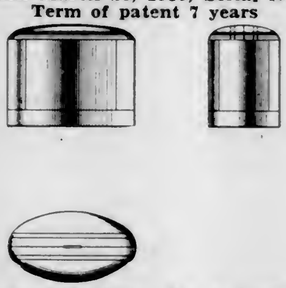
The ornamental design for a broiler, as shown.

115,537
DESIGN FOR A KNOB
Gustave F. Bahr, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application May 8, 1939, Serial No. 84,868
Term of patent 14 years



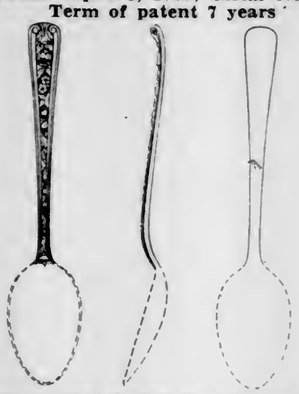
The ornamental design for a knob, as shown.

115,538
DESIGN FOR A DIME BANK
John Boros, New York, N. Y.
Application March 28, 1939, Serial No. 83,871
Term of patent 7 years



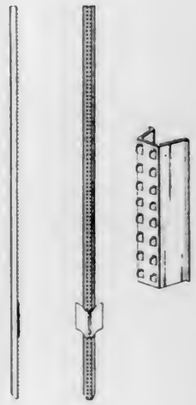
The ornamental design for a dime bank, as shown.

115,539
DESIGN FOR A SPOON OR SIMILAR ARTICLE
William T. Brown, Attleboro, Mass., assignor to The Watson Company, Attleboro, Mass.
Application April 5, 1939, Serial No. 84,064
Term of patent 7 years



The ornamental design for a spoon or similar article, as shown.

115,540
DESIGN FOR A FENCE POST
Walter Bruce Caldwell, Flossmoor, and Edward F. Peters, Chicago Heights, Ill., assignors to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application May 18, 1937, Serial No. 69,401
Term of patent 14 years



The ornamental design for a fence post, substantially as shown and described.

115,541
DESIGN FOR A CHILD'S HANDBAG
Moe J. Cohen and Abraham Wirklich, New York, N. Y.
Application March 31, 1939, Serial No. 83,940
Term of patent 3½ years



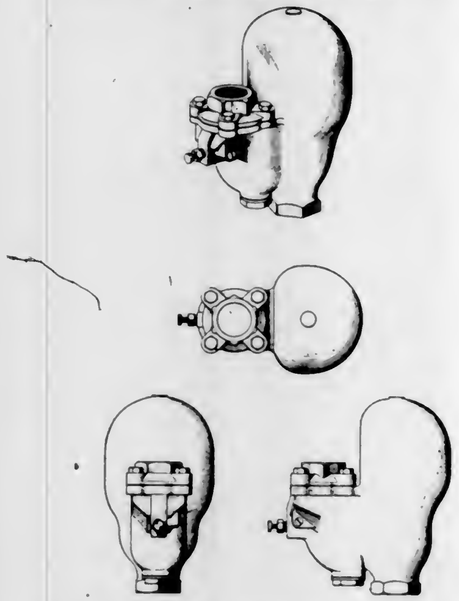
The ornamental design for a child's handbag, substantially as shown.

115,542
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Edward J. Conroy, New Haven, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application May 10, 1939, Serial No. 84,896
Term of patent 14 years



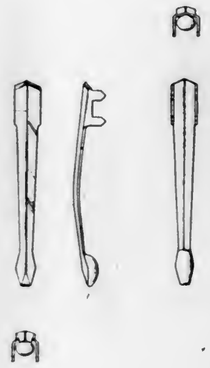
The ornamental design for a spoon or other article of flatware, substantially as shown and described.

115,543
DESIGN FOR A VALVE FOR A HOT WATER HEATING SYSTEM
Edward S. Cornell, Jr., Larchmont, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application October 11, 1938, Serial No. 80,364
Term of patent 14 years



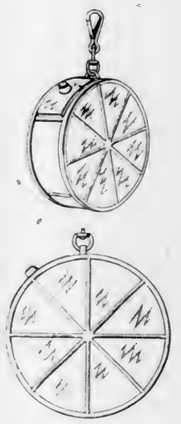
The ornamental design for a valve for a hot water heating system, substantially as shown.

115,544
DESIGN FOR A PEN AND PENCIL CLIP
Frank C. Deli and Erik Petau, Chicago, Ill., assignors to Autopoint Company, Chicago, Ill., a corporation of Illinois
Application March 29, 1939, Serial No. 83,892
Term of patent 7 years



The ornamental design for a pen and pencil clip, as shown.

115,545
DESIGN FOR A FLY BOX
William J. De Witt, Auburn, N. Y., assignor to Shoe Form Co., Inc., Auburn, N. Y., a corporation of New York
Application August 27, 1938, Serial No. 79,602
Term of patent 14 years



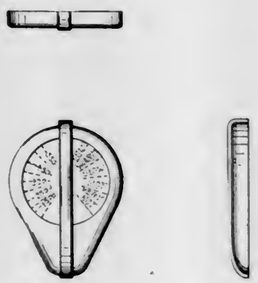
The ornamental design for a fly box, substantially as shown and described.

115,546
DESIGN FOR AN ARTIFICIAL FISH LURE
Ralph Faulconer, Frederick, Okla.
Application May 13, 1939, Serial No. 84,983
Term of patent 14 years



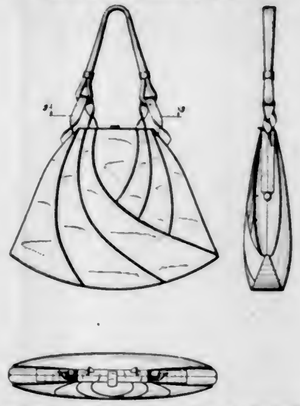
The ornamental design for an artificial fish lure, as shown.

115,547
DESIGN FOR A DIAL CASING FOR THERMOMETERS OR THE LIKE
George E. Ford, Rochester, N. Y., assignor to Rochester Manufacturing Co., Rochester, N. Y.
Application April 13, 1939, Serial No. 84,263
Term of patent 7 years



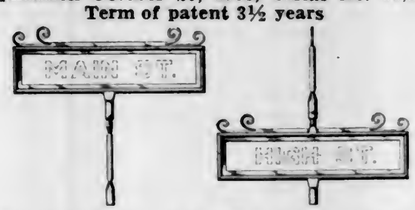
The ornamental design for a dial casing for thermometers or the like, as shown.

115,548
DESIGN FOR A HANDBAG
Samuel R. Goldsmith, New York, N. Y.
Application May 25, 1939, Serial No. 85,198
Term of patent 3½ years



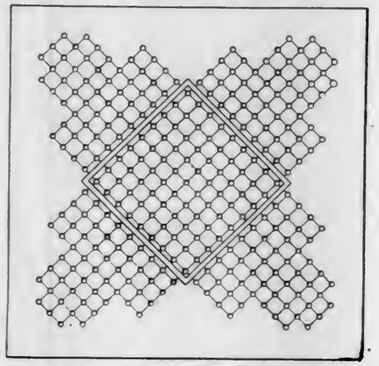
The ornamental design for a handbag, substantially as shown.

115,549
DESIGN FOR A STREET SIGN
Jesse Le Roy Greer, Dallas, Tex.
Application October 20, 1938, Serial No. 80,577
Term of patent 3½ years



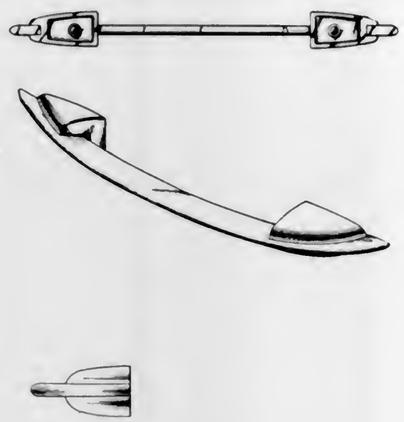
The ornamental design for a street sign, as shown.

115,550
DESIGN FOR A GAME BOARD
Alfred F. Hamilton, Seattle, Wash.
Application March 6, 1939, Serial No. 83,355
Term of patent 3½ years



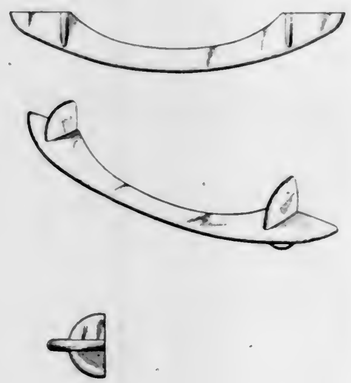
The ornamental design for a game board, substantially as shown and described.

115,551
DESIGN FOR A HANDLE FOR GAS RANGES
Christopher L. Hardwick, Cleveland, Tenn.
Application October 1, 1938, Serial No. 80,175
Term of patent 7 years



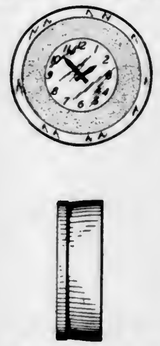
The ornamental design for a handle for gas ranges, as shown and described.

115,552
DESIGN FOR A HANDLE FOR GAS RANGES
Christopher L. Hardwick, Cleveland, Tenn.
Application October 1, 1938, Serial No. 80,176
Term of patent 7 years



The ornamental design for a handle for gas ranges, as shown and described.

115,553
DESIGN FOR A CLOCK
Murray Harris, Fort Worth, Tex., assignor to Paramount Display Company, Fort Worth, Tex.
Application September 13, 1938, Serial No. 79,867
Term of patent 3½ years



The ornamental design for a clock, substantially as shown.

115,554
DESIGN FOR A BOTTLE
Frederick R. Hoch, Norton, Mass., assignor to T. J. Holmes Co. Inc., Chartley, Mass., a corporation of Massachusetts
Application November 15, 1938, Serial No. 81,092
Term of patent 3½ years



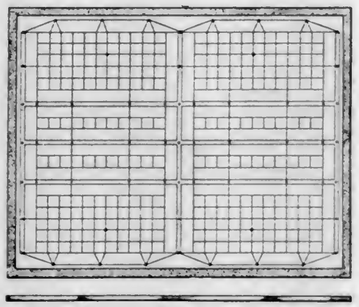
The ornamental design for a bottle, as shown.

115,555
DESIGN FOR A COIN SAVINGS BANK
Joseph Jacobs, Detroit, Mich.
Application March 27, 1939, Serial No. 83,848
Term of patent 7 years



The ornamental design for a coin savings bank, as shown.

115,556
DESIGN FOR A GAME BOARD
Edgar Johnson, Seymour, Ind.
Application April 6, 1939, Serial No. 84,100
Term of patent 3½ years



The ornamental design for a game board, as shown.

115,557
DESIGN FOR A SLIDE FASTENER CLOSURE
Ralph Kay, New York, N. Y.
Application April 11, 1939, Serial No. 84,195
Term of patent 7 years



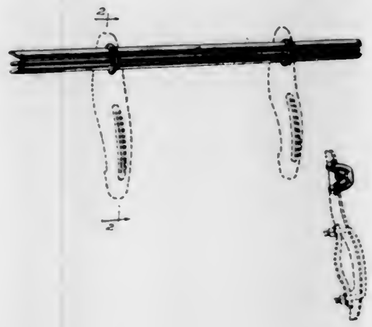
The ornamental design for a slide fastener closure, substantially as shown.

115,558
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Alfred G. Kintz, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application May 17, 1939, Serial No. 85,044
Term of patent 14 years



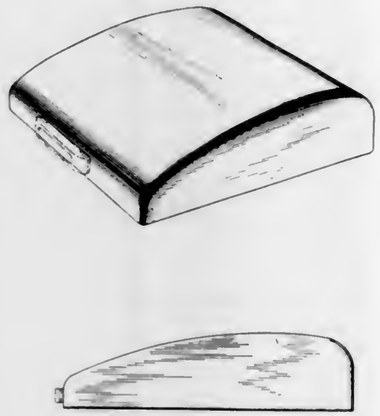
The ornamental design for a spoon or other article of flatware, substantially as shown and described.

115,559
DESIGN FOR AN AUTOMOBILE GRILLE GUARD
Louis A. Koch, Louisville, Ky.
Application February 21, 1939, Serial No. 83,131
Term of patent 7 years



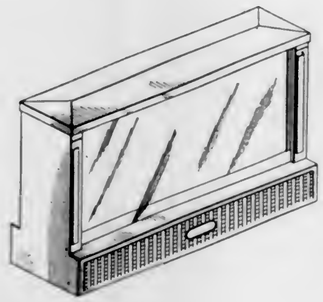
The ornamental design for an automobile grille guard, as shown and described.

115,560
DESIGN FOR A CARRYING CASE FOR TYPEWRITERS
Johannes Krüger, Erfurt, Germany, assignor to Olympia Büromaschinenwerke A. G., Erfurt, Germany, a corporation of Germany
Application February 14, 1939, Serial No. 82,986
In Germany May 13, 1938
Term of patent 14 years



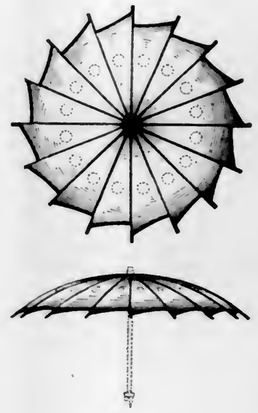
The ornamental design for a carrying case for typewriters, as shown and described.

115,561
DESIGN FOR A DISPLAY SIGN
George L. Lee, Maplewood, N. J.
Application February 25, 1939, Serial No. 83,206
Term of patent 14 years



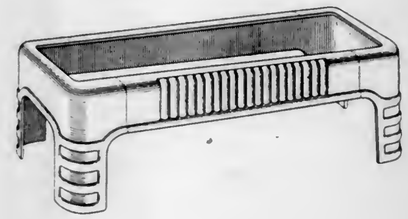
The ornamental design for a display sign, as shown and described.

115,562
DESIGN FOR AN UMBRELLA
Joseph Levin, Lancaster, Pa., assignor to Polan, Katz & Company, Baltimore, Md., a co-partnership
Application March 22, 1939, Serial No. 83,771
Term of patent 3½ years



The ornamental design for an umbrella, as shown and described.

115,563
DESIGN FOR A SUPPORT FOR COAL AND WOOD RANGE OR THE LIKE
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application October 8, 1938, Serial No. 80,326
Term of patent 7 years



The ornamental design for a support for coal and wood range or the like, as shown and described.

115,564
DESIGN FOR A VENDING MACHINE
Jesse Herbert Newport, Jr., Birmingham, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application April 17, 1939, Serial No. 84,356
Term of patent 7 years



The ornamental design for a vending machine, substantially as shown.

115,565
DESIGN FOR A BOOT
Charles E. O'Donnell, Lynn, Mass.
Application November 7, 1938, Serial No. 80,921
Term of patent 3½ years



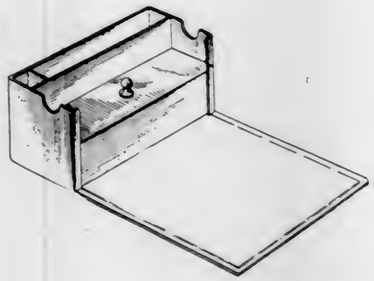
The ornamental design for a boot, as shown and described.

115,566
DESIGN FOR A HANDWHEEL
Charles A. Olson, Geneva, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 26, 1938, Serial No. 80,687
Term of patent 14 years



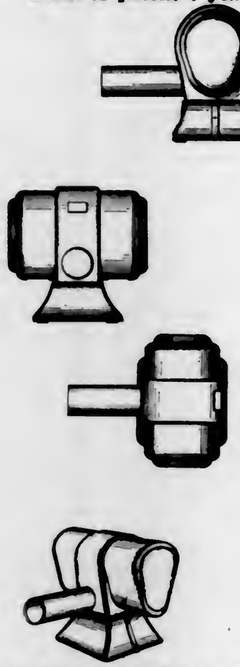
The ornamental design for a handwheel, substantially as shown.

115,567
DESIGN FOR A COMBINATION DESK UNIT
Emanuel R. Posnack, New York, N. Y.
Application February 4, 1939, Serial No. 82,776
Term of patent 14 years



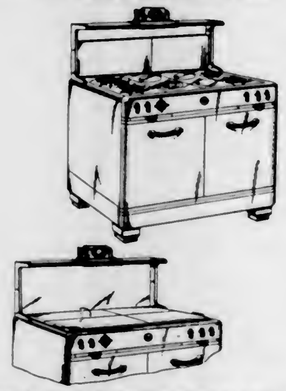
The ornamental design for a combination desk unit, substantially as shown.

115,568
DESIGN FOR AN OIL BURNER
Henry J. Sandlas, Jr., Randallstown, Md., assignor to May Oil Burner Corporation, a corporation of Maryland
Application November 9, 1938, Serial No. 80,984
Term of patent 7 years



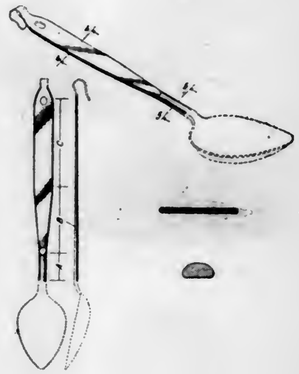
The ornamental design for an oil burner, substantially as shown.

115,569
DESIGN FOR A STOVE
Frank H. Schneider, Royersford, Pa., assignor to The Floyd-Wells Company, Royersford, Pa., a corporation of Pennsylvania
Application December 3, 1938, Serial No. 81,561
Term of patent 7 years



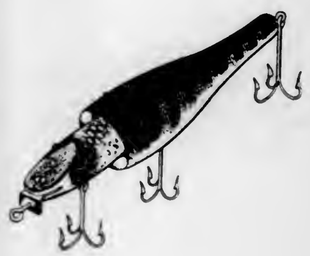
The ornamental design for a stove, as shown and described.

115,570
DESIGN FOR A KITCHEN SPOON OR SIMILAR ARTICLE
William Scrimgeour, Washington, D. C., assignor to William Scrimgeour, Engineer and Contractor, Washington, D. C., a partnership
Application January 5, 1939, Serial No. 82,176
Term of patent 14 years



The ornamental design for a kitchen spoon or similar article, as shown and described.

115,571
DESIGN FOR A FISH LURE
Lloyd C. Strite, Chicago, Ill.
Application November 30, 1938, Serial No. 81,475
Term of patent 14 years



The ornamental design for a fish lure, as shown.

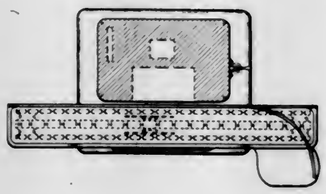
115,572
DESIGN FOR A STUFFED ANIMAL TOY
Leo L. Weiss, New York, N. Y.
Application April 25, 1939, Serial No. 84,547
Term of patent 7 years



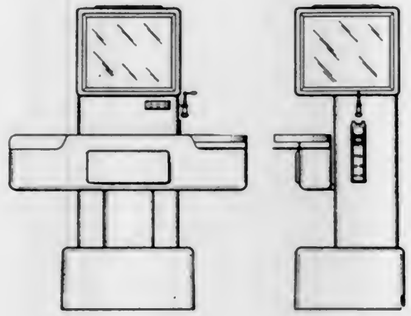


The ornamental design for a stuffed animal toy, as shown, and described.

115,573
DESIGN FOR A BOTTLE CAPPER CASING OR THE LIKE
Eugene W. Weston, Elginburgh, Ontario, Canada
Application May 1, 1937, Serial No. 69,113
Term of patent 14 years



115,573—Continued



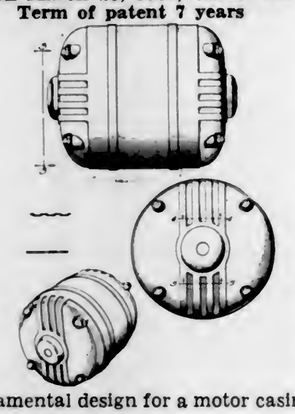
The ornamental design for a bottle capper casing or the like, as shown and described.

115,574
DESIGN FOR A LOG TONGS
Herbert E. Havemeyer, Riverside, Ill.
Application July 14, 1938, Serial No. 78,471
Term of patent 7 years



The ornamental design for a log tongs, as shown and described.

115,575
DESIGN FOR A MOTOR CASING
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application March 29, 1939, Serial No. 83,895
Term of patent 7 years



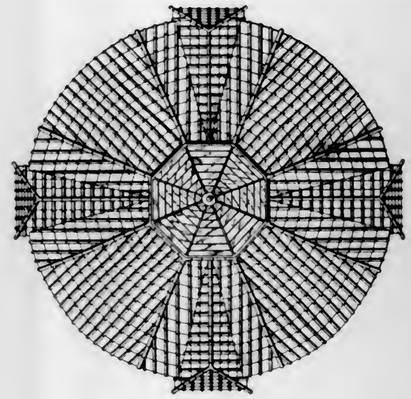
The ornamental design for a motor casing, substantially as shown.

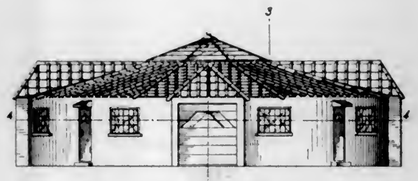
115,576
DESIGN FOR A DOLL
Therese Rembrecht, New York, N. Y.
Application April 17, 1939, Serial No. 84,340
Term of patent 3½ years

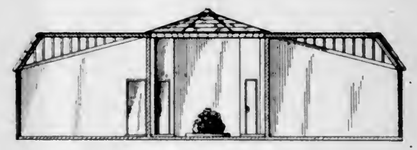


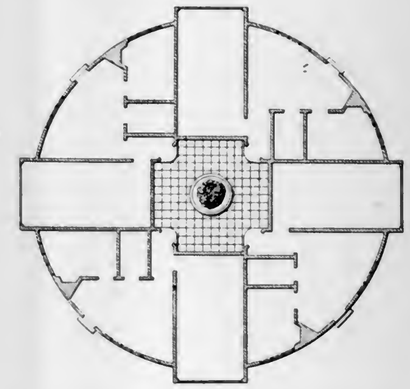
The ornamental design for a doll, as shown.

115,577
DESIGN FOR A BUILDING
Orville H. Sowl, Ord, Nebr.
Application April 25, 1938, Serial No. 76,748
Term of patent 7 years









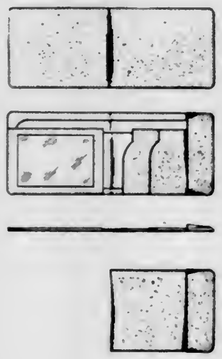
The ornamental design for a building, as shown.

115,578
DESIGN FOR A PORCELAIN INSULATOR
Ludwig A. Stohl, Sun Prairie, Wis.
Application February 1, 1939, Serial No. 82,700
Term of patent 7 years



The ornamental design for a porcelain insulator, as shown.

115,579
DESIGN FOR A BILLFOLD
Albert Brown, New York, N. Y.
Application June 14, 1939, Serial No. 85,482
Term of patent 3½ years



The ornamental design for a billfold, substantially as shown.

115,580
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Alfred G. Kintz, Wallingford, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application May 17, 1939, Serial No. 85,046
Term of patent 14 years



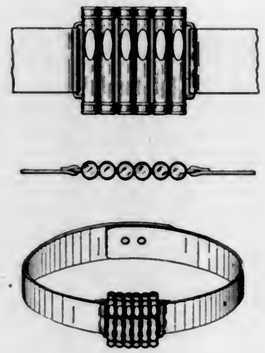
The ornamental design for a spoon or other article of flatware, substantially as shown and described.

115,581
DESIGN FOR A TEXTILE FABRIC
Jack Rubin, New York, N. Y.
Application April 19, 1939, Serial No. 84,404
Term of patent 3½ years



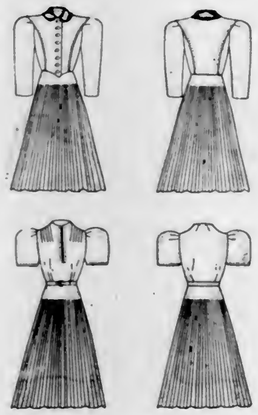
The ornamental design for a textile fabric, substantially as shown.

115,582
DESIGN FOR A CIGARETTE BELT
Max Silverman, New York, N. Y.
Application May 27, 1939, Serial No. 85,230
Term of patent 3½ years



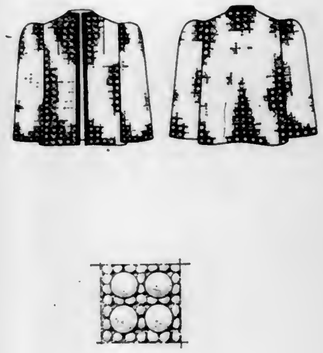
The ornamental design for a cigarette belt, substantially as shown.

115,583
DESIGN FOR A DRESS ENSEMBLE
Dorothy Beilinson, New York, N. Y.
Application June 3, 1939, Serial No. 85,312
Term of patent 3½ years



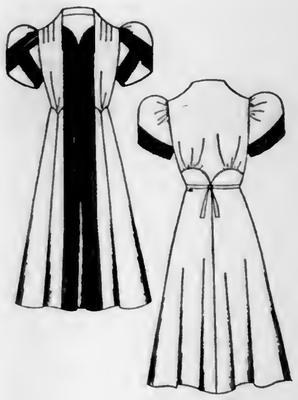
The ornamental design for a dress ensemble, substantially as shown.

115,584
DESIGN FOR A JACKET
Louis Cohen, New York, N. Y.
Application March 10, 1939, Serial No. 83,497
Term of patent 3½ years



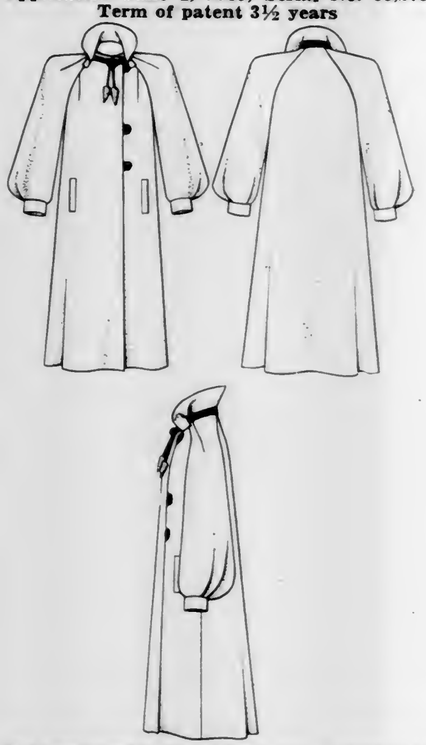
The ornamental design for a jacket, substantially as shown and described.

115,585
DESIGN FOR A DRESS
Herbert M. Harris, New York, N. Y.
Application June 3, 1939, Serial No. 85,313
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,586
DESIGN FOR A COAT
Melvin Hirsh, Chicago, Ill.
Application June 1, 1939, Serial No. 85,278
Term of patent 3½ years



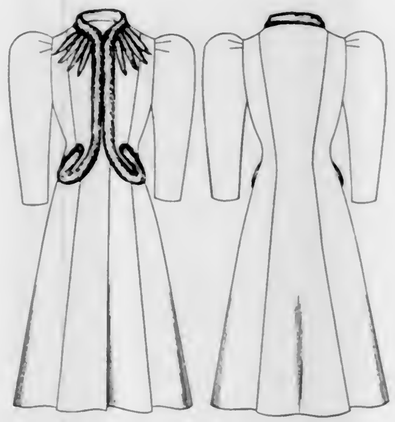
The ornamental design for a coat, substantially as shown.

115,587
DESIGN FOR A COAT
Louis Newman, New York, N. Y.
Application June 3, 1939, Serial No. 85,314
Term of patent 3½ years



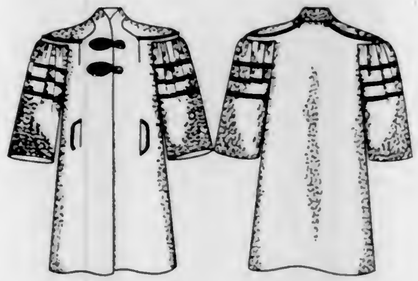
The ornamental design for a coat, substantially as shown.

115,588
DESIGN FOR A COAT
Louis Newman, New York, N. Y.
Application June 3, 1939, Serial No. 85,315
Term of patent 3½ years



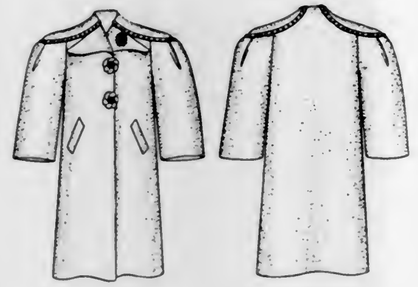
The ornamental design for a coat, substantially as shown.

115,589
DESIGN FOR A COAT
Fred Schwartz, New York, N. Y.
Application June 1, 1939, Serial No. 85,290
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

115,590
DESIGN FOR A COAT
Fred Schwartz, New York, N. Y.
Application June 1, 1939, Serial No. 85,291
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

115,591
DESIGN FOR A COAT
Charles Shapiro, New York, N. Y.
Application May 25, 1939, Serial No. 85,195
Term of patent 3½ years



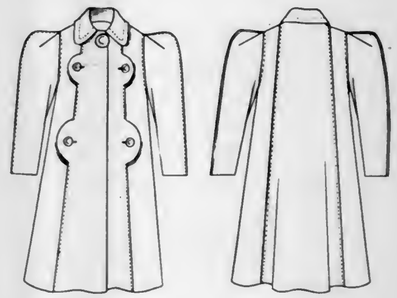
The ornamental design for a coat, as shown.

115,592
DESIGN FOR A COAT
Charles Shapiro, New York, N. Y.
Application May 31, 1939, Serial No. 85,264
Term of patent 3½ years



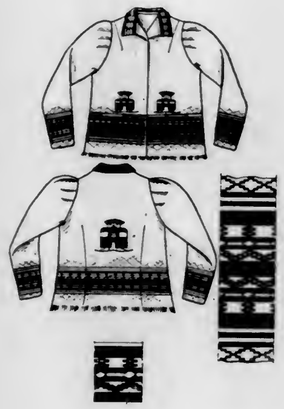
The ornamental design for a coat, as shown.

115,593
DESIGN FOR A COAT
Jacob A. Silverman, Brooklyn, N. Y.
Application June 1, 1939, Serial No. 85,294
Term of patent 3½ years



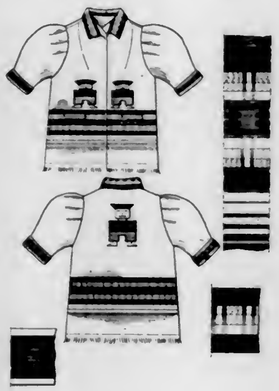
The ornamental design for a coat, substantially as shown.

115,594
DESIGN FOR A COAT
Gladys E. Felger, Santa Barbara, Calif.
Application October 4, 1938, Serial No. 80,233
Term of patent 3½ years



The ornamental design for a coat, as shown.

115,595
DESIGN FOR A COAT
Gladys E. Felger, Santa Barbara, Calif.
Application October 4, 1938, Serial No. 80,234
Term of patent 3½ years



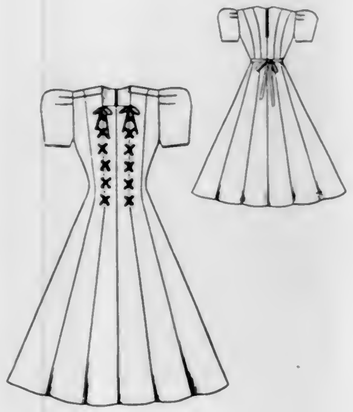
The ornamental design for a coat, as shown.

115,596
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Charles Rosenstein, Paterson, N. J.
Application June 8, 1939, Serial No. 85,396
Term of patent 3½ years



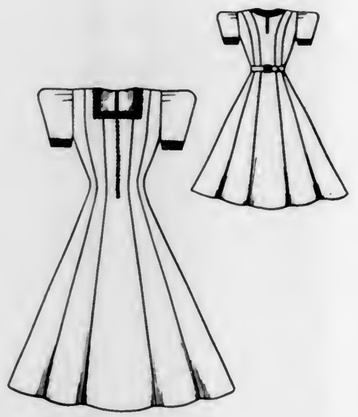
The ornamental design for a textile fabric or similar article, as shown.

115,597
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,734
Term of patent 3½ years



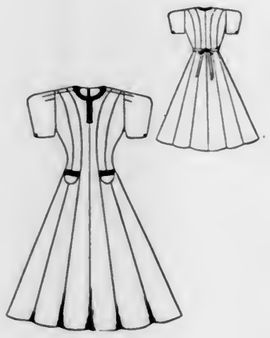
The ornamental design for a dress, substantially as shown and described.

115,598
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,738
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

115,599
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application May 3, 1939, Serial No. 84,739
Term of patent 3½ years



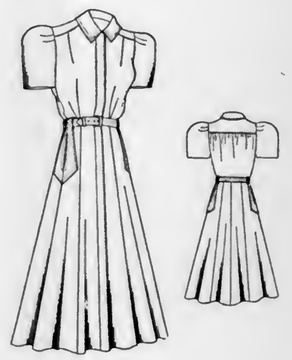
The ornamental design for a dress, substantially as shown and described.

115,600
DESIGN FOR A DRESS
Morris Hyman, New York, N. Y.
Application May 15, 1939, Serial No. 84,991
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

115,601
DESIGN FOR A DRESS
Mordecai N. Mayehoff, New York, N. Y.
Application May 19, 1939, Serial No. 85,079
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

THE

OFFICIAL GAZETTE

OF THE

United States Patent Office

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CONTENTS

	Page
ISSUE OF JULY 11, 1939	285
ADJUDICATED PATENTS	285
U. S. COURT OF CUSTOMS AND PATENT APPEALS	285
NOTICE OF CANCELLATION	285
APPLICATIONS UNDER EXAMINATION	286
DECISIONS OF THE U. S. COURTS—	
Honolulu Oil Corporation, Ltd., and M. O. Johnston Oil Field Service Corporation v. Erle P. Halliburton and Halliburton Oil Well Cementing Company.	
Erle P. Halliburton and Halliburton Oil Well Cementing Company v. Honolulu Oil Corporation, Ltd., and M. O. Johnston Oil Field Service Corporation	287
Electrical Fittings Corporation Joselson Sales Corporation, Samuel Joselson and Belle Joselson v. The Thomas & Betts Co. and National Electrical Products Corporation	290
Traders Oil Mill Co. v. Lever Brothers Company	291
California Prune and Apricot Growers v. Dorry Flour Mills, Inc	292
PATENT SUITS	294
ADVERSE DECISIONS IN INTERFERENCE	295
DISCLAIMERS	295
CHANGES IN CLASSIFICATION	295
TRADE-MARKS PUBLISHED (218 APPLICATIONS)	301
TRADE-MARK REGISTRATIONS GRANTED	327
TRADE-MARK REGISTRATIONS RENEWED	333
LABELS	334
PRINTS	335
REISSUES	337
PATENTS GRANTED	340
DESIGNS	553

July 11, 1939

Trade-Marks	143	No. 368,961 to No. 369,103,	inclusive.
T. M. Renewals	32		
Labels	28	No. 53,236 to No. 53,263,	inclusive.
Prints	7	No. 17,486 to No. 17,492,	inclusive.
Reissues	10	No. 21,141 to No. 21,150,	inclusive.
Patents	906	No. 2,165,196 to No. 2,166,101,	inclusive.
Designs	125	No. 115,602 to No. 115,726,	inclusive.
Total	1,251		

U. S. Court of Customs and Patent Appeals

MONDAY, JUNE 26, 1939.

It is ordered that the vacation period of this court, insofar as it affects the postponement by stipulation of the filing of appellants' and appellees' briefs in customs appeals, as provided in paragraph 3 of Rule XIX, and insofar as it affects the postponement of the printing of records and the filing of appellants' and appellees' briefs in patent appeals, as provided in paragraph 1 of Rule XXVI and in paragraphs 3 and 4 of Rule XXVII, shall commence on the 26th day of June, A. D., 1939.

Attest:

ARTHUR B. SHELTON,
Clerk.

Adjudicated Patents

(C. C. A. Ohio) Springer patent, No. 1,359,124, for ironing-board, claims 1 and 3 *Held* invalid. *Rid-Jid Products* v. *Rich Pump & Ladder Co.*, 103 F.(2d) 574.

(C. C. A. Ohio) Lapointe patent, No. 1,463,473, for broaching tool, claims 1 to 4 *Held* valid and infringed. *Metal Cutting Tool Service* v. *National Tool Co.*, 103 F.(2d) 581.

(D. C. Miss.) Skrmetti patent, No. 1,485,338, for floating trawling fish seine, *Held* not infringed. *Skrmetti* v. *Anderson*, 27 F. Supp. 343.

(D. C. Miss.) Skrmetti patent, No. 1,498,760, for floating trawl, *Held* not infringed. *Id.*

(C. C. A. Ohio) Kalgren patent, No. 1,895,164, for ironing table, claim 5 *Held* invalid. *Rid-Jid Products* v. *Rich Pump & Ladder Co.*, 103 F.(2d) 574.

(D. C. N. Y.) Blanchard patent, No. 1,914,237, for independent wing locking device for revolving doors, *Held* invalid. *Van Kannell Revolving Door Co.* v. *General Bronze Corporation*, 27 F. Supp. 331.

(C. C. A. Ohio) Kalgren patent, No. 1,927,685, for ironing table, claim 5 *Held* invalid. *Rid-Jid Products* v. *Rich Pump & Ladder Co.*, 103 F.(2d) 574.

(C. C. A. Ill.) Crossley reissue patent, No. 19,680, for temperature control system, claims 6, 8, and 9 *Held* invalid. *Crossley* v. *Doolittle & Falknor*, 103 F.(2d) 674.

(C. C. A. Ill.) Koch design patent, No. 104,111, for a design for an automobile exhaust shroud, *Held* invalid. *Koch Mfg. Co.* v. *Blue Star Auto Stores*, 103 F.(2d) 598.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., June 19, 1939.*

Central Candy Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Penick & Ford, Ltd., Incorporated, 420 Lexington Avenue, New York, N. Y., to effect the cancellation of trade-mark registration No. 215,823, issued July 27, 1926, to Central Candy Co., Waco, Tex., and a notice of such proceeding sent by registered mail to said Central Candy Co. at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Central Candy Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner

Condition of Applications Under Examination at Close of Business June 24, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 43,237; Trade-Mark Division, 1,413. Oldest new case, Nov. 7, 1938; oldest amended, Nov. 2, 1938.)
(The dates given are 1939 except where † indicates 1938)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Jan. 31	Jan. 30	707
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Jan. 24	Jan. 26	694
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	Apr. 22	Apr. 22	399
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Mar. 30	Mar. 15	434
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Mar. 30	Apr. 1	479
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	†Dec. 14	†Dec. 30	978
5725	7. JARBOE, C. G., Optics; Photography	Mar. 11	Mar. 3	910
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	†Dec. 21	Jan. 16	1100
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Feb. 8	Feb. 6	720
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Feb. 6	Mar. 15	612
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 15	Feb. 25	448
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Jan. 3	Dec. 22	571
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Jan. 14	Jan. 12	652
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Apr. 15	Apr. 11	451
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Feb. 11	Feb. 10	1211
5716	16. SPENCER, C. J., Telegraphy; Telephony	Jan. 29	Jan. 11	815
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 21	Feb. 25	501
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	†Dec. 17	†Dec. 24	546
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Mar. 9	Mar. 6	409
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Mar. 31	Apr. 4	367
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Mar. 27	Feb. 23	511
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Jan. 30	Jan. 30	890
7624	23. BUTTNER, W. J., Registers (part)	Jan. 8	Jan. 5	277
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	†Dec. 27	†Dec. 21	1147
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 20	Mar. 22	478
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Jan. 26	Feb. 1	617
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Nov. 24	†Nov. 22	1221
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Feb. 23	Feb. 23	454
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Jan. 10	748
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Jan. 16	Jan. 16	856
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Mar. 24	Mar. 20	644
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Mar. 22	Mar. 21	388
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Apr. 1	Apr. 1	673
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Mar. 29	Mar. 22	370
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 18	Mar. 21	561
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Jan. 17	Feb. 1	546
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Feb. 24	Jan. 5	632
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	†Dec. 20	†Nov. 21	722
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 3	Mar. 10	591
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Jan. 27	Jan. 28	1452
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Jan. 16	†Dec. 28	330
5882	42. CUTTING, H. O., Electric Signaling	†Dec. 7	†Dec. 6	616
4886B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Mar. 8	Mar. 8	519
4087B	44. HARVEY, L. P., Refrigeration	Jan. 20	Jan. 18	655
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Mar. 9	Mar. 11	569
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Jan. 27	Jan. 27	709
6082	47. LOWE, E. R., Clutches; Brakes	Feb. 25	Mar. 3	424
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Mar. 30	Mar. 27	412
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Jan. 3	†Dec. 3	1094
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	†Dec. 24	†Dec. 29	1225
5628	51. BACKUS, C. D., Radiant Energy (part)	Mar. 29	Mar. 29	677
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Jan. 28	Feb. 16	809
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Mar. 7	Mar. 9	533
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 16	Mar. 22	338
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	†Nov. 7	†Nov. 2	710
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Jan. 12	Jan. 17	1183
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Feb. 20	Apr. 4	459
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Mar. 7	Mar. 9	391
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Mar. 7	Mar. 9	589
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Feb. 16	Feb. 16	428
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Feb. 3	Jan. 28	531
5621	62. PUGH, E. C., Games; Geometrical Instruments	Apr. 15	April 17	445
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	†Dec. 29	Jan. 11	610
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Mar. 1	Mar. 1	832
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Feb. 7	Jan. 31	594
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND (Trade-Marks	May 22	June 5	1,329
	(Labels and Prints	June 20	June 12	84
2605	Designs: H. H. KALUPY	May 15	June 3	779

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

HONOLULU OIL CORPORATION, LTD. AND M. O. JOHNSTON OIL FIELD SERVICE CORPORATION *v.* ERLE P. HALLIBURTON AND HALLIBURTON OIL WELL CEMENTING COMPANY.

ERLE P. HALLIBURTON AND HALLIBURTON OIL WELL CEMENTING COMPANY *v.* HONOLULU OIL CORPORATION, LTD., AND M. O. JOHNSTON OIL FIELD SERVICE CORPORATION

Nos. 466 and 479. Decided April 17, 1939

PATENTS—VALIDITY—SIMMONS PATENT No. 1,930,987.

Claims 8 to 19, inclusive, of Simmons Patent No. 1,930,987 for a method and apparatus for testing productivity of formations encountered in wells *Held* unpatentable for lack of invention in view of prior art.

ON WRITS of certiorari to the United States Circuit Court of Appeals for the Ninth Circuit.

Mr. A. W. Boyken (*Mr. A. J. Hill*, *Mr. Kenneth K. Wright*, *Mr. Vincent Morgan*, and *Mr. W. M. Farrar* with him on the brief) for Honolulu Oil Corporation, Ltd. and M. O. Johnston Oil Field Service Corporation.

Mr. Leonard S. Lyon and *Mr. William H. Davis* (*Mr. Frederick S. Lyon*, *Mr. Henry S. Richmond*, and *Mr. Ben F. Saye* with them on the brief) for Erle P. Halliburton and Halliburton Oil Well Cementing Company.

Mr. Justice BUTLER delivered the opinion of the Court.

This suit presents questions of validity and infringement of Patent No. 1,930,987 applied for February 10, 1926, by Simmons and, after assignment, issued October 17, 1933, to Halliburton. It is for a method and apparatus for testing productivity of formations encountered in oil and other deep wells drilled by the rotary method.

The writs were granted, on petition of defendants Honolulu Oil Corporation, Ltd. et al. and cross-petition of plaintiffs Halliburton, et al., to review a decree[1] of the Circuit Court of Appeals for the Ninth Circuit holding that the method claims are valid and infringed and to that extent reversing a decree[2] of the district court of southern California holding that the method and apparatus claims are invalid.

There was an earlier suit for infringement of the same patent brought by these plaintiffs in the Federal court for the eastern district of Texas against other defendants. That court sustained the patent and found it infringed. The Circuit Court of Appeals for the Fifth Circuit reversed.[3] It held the method claims invalid for lack of invention and that, while the apparatus claims may define a simplifying improvement upon which a combination patent might rest, the apparatus was not of such character as to be infringed by the accused tool of defendants.

In recent years rotary drilling has been widely used in sinking deep oil wells. Boring is done by rotation of a bit attached to a steel pipe which when so used is called a "drill stem". A smaller bore, called "rat-hole", sometimes precedes, and is reamed out to obtain, the full size hole. To aid operation, drilling fluid (mud-laden water) is pumped into the upper end of the drill stem and escapes into the well at high velocity through holes in the bit. It rises through the space between the pipe and the earth walls of the well and carries to the surface cuttings made by the bit. It holds back and seals the penetrated formations. Hydrostatic pressure of the drilling fluid is very great and the fluid in a penetrated formation will not flow into the well unless it is under greater pressure. It is often desirable to secure a sample of the fluid within a stratum in the bottom of the well without removing the drilling fluid. The patent in suit is for a method and apparatus intended to accomplish that purpose.

The method claims are 8 and 18. Claim 8 is as follows:

"A method of testing the productivity of a formation encountered in a well containing drilling fluid, which includes lowering an empty string of pipe into the well through the drilling fluid to adjacent the formation, the pipe carrying a packer[4] and having a valved inlet at its lower end which is closed while the pipe is being lowered, setting the packer above the formation to seal off the drilling fluid from the formation, opening the valved inlet after the packer is set to permit cognate fluid[5] from the formation to enter the pipe, closing the valved inlet against the entrance of fluid from the well by movement of the pipe, raising the pipe so closed to remove an entrapped sample and the packer from the well."

Claim 18 is printed in the margin.[6]

The apparatus claims in suit are 9 to 17 inclusive and 19. Claim 15 is typical:

"Apparatus for testing the productivity of a formation encountered in a well containing drilling fluid, comprising a single empty string of pipe to be lowered into the well through the drilling fluid to adjacent the formation to be tested, a packer lowered into the well by said string of pipe for sealing off the drilling fluid from the formation to be tested, said packer adapted to be positively pressed against the walls of the formation to seal off the same, means at the lower end of said string of pipe to receive fluid from said formation including an inlet opening into said pipe below said packer and a valve structure for controlling the inlet, said valve structure having a relatively stationary part connected to the packer and a relatively movable part connected to the pipe."

[1] 98 F.(2d) 436.
[2] 18 F. Supp. 58.
[3] 88 F.(2d) 270.

[4] Webster's New International Dictionary, 2nd ed., 1935: "packer . . . A device to pack the space between the wall of a well and the pipe or between two strings of pipe in a well."

[5] That is, oil, gas, water, or other fluid encountered in formations penetrated by the bit.

[6] "18. A method of testing the productivity of a formation encountered in a well containing drilling fluid involving the insertion of only a single string of pipe into the well to make a test, which includes lowering a test string into the well through the drilling fluid with a packer carried by the string and a valve inlet at the lower end of the string closed against the entrance of fluid from the well, setting the packer above the formation and opening the valve to permit cognate fluid from the formation to enter the inlet, closing the valve to prevent the subsequent entrance of fluid from the well through the inlet and releasing the packer, and raising the test string with the inlet closed against entrance of fluid from the well to remove an entrapped sample."

Sustaining the claims in suit, the district court for eastern Texas found: Plaintiffs have a large business under the patent in suit. Prior to the discovery there was no apparatus or method in use for testing productivity of formations in wells containing drilling fluid except by putting in a casing and removing the fluid. This patent first disclosed testing apparatus and method requiring only a single string of pipe.

In this suit the trial court found: The Franklin Patent No. 263,330, dated August 29, 1882, anticipates both the method and apparatus covered by the patent in suit. The use of a packer is necessarily implied from the language of the Franklin patent. Without one, that device could not perform the functions attributed to it. Plainly, it may be used as a tester; for by its use the contents of the producing stratum, sealed off from the rest of the well and unimpeded in its entry into the rat-hole by pressure of the rotary mud, can be brought undiluted to the surface by a mechanism almost duplicating that shown by the patent in suit. A packer to separate one stratum of the oil well from another is old in the art.

And it also found: The Cox Patent No. 1,347,534, dated July 27, 1920, and the Edwards Patent No. 1,514,585, dated November 4, 1924, substantially disclose the method and device claimed in the patent in suit. The object of these patents, like that of the one in suit, was to ascertain productivity of the stratum being drilled. There was no actual commercial use of the device disclosed and claimed in the patent in suit. It was impractical, due to difficulty in operating at increased length. The inventor himself was employed to devise improvements in the valve structure. If valid at all, the patent must be restricted to its precise form. The method claims are invalid for want of invention. In important respects, defendants' devices differ in operation from the device disclosed and claimed by the patent in suit; they are not infringements of it.

And that court decreed that as to all claims in suit, the patent is invalid.

The opinion of the Circuit Court of Appeals for the Fifth Circuit considers the questions of invention here involved. In substance, it says:

Method claim 18, taken as typical, assumes familiar apparatus and claims a monopoly on a new use of the old apparatus to achieve a result in a better way. That apparatus includes a single string of pipe lowered into the well, a packer on the string, and a valve at the lower end. These simple and well-known elements are to be used by lowering the pipe into the well with the valve closed against the drilling fluid until the packer is set, then by opening the valve to admit cognate fluid below the packer, then by closing the valve so as to prevent the drilling fluid from entering when the packer is released and the pipe drawn up with its contents. No novelty and certainly no invention can be claimed for the method.

Packers and pipes with valves in them have long been in use to get what is below the packer free from what is above and without removing what is above. Whether a large quantity from a finished well or a simple sample from an unfinished well does not materially alter the method. Water has always been encountered in oil wells; the drilling fluid is only very muddy water voluntarily put and kept in the well for special reasons. Expansible and removable packers with pipes through them to reach the oil, gas, or other desired fluid beneath and rat-hole packers set by the weight of the pipe pressing them down and removable by simply lifting them are shown in earlier patents.[7]

The simplicity of the method in suit along with all its operations, was reasonably disclosed in the old patent to Franklin. There is the single pipe with a packer mentioned, but function esteemed so familiar as to need no emphasis, capable of being lowered into and withdrawn from a well, with the entrance into or escape from the pipe to be controlled by a valve operated from above while the pipe is lowered or withdrawn. The importance of Franklin to this method claim is that he describes the use of a packer on a single string of pipe with a valve in the pipe in the very operation of putting them in and taking them out of the well. Franklin discloses a packer. Evidently one must be used for without it oil would not flow through the pipe as desired and there would be no use of the valve to control the flow. The packer is necessary to prevent escape of gas and to build up pressure to make the oil flow.

Franklin did not intend to get a sample by raising the pipe, but intended to keep from getting a sample by making the valve a leaky one that would let the contents escape as the pipe is raised. He expected to get what was below by natural flow just as Simmons, applicant for the patent in suit, says that is to be preferred. It would be no invention to substitute a valve that would not leak for one that was intended to and does leak on withdrawal. It would be no invention to use the Franklin device to sample a well instead of using it to flow the well. Especially after the disclosure of Cox and Edwards in the art of testing by sample taken through the drill stem with their somewhat complicated devices, recurrence for this new use to what is in substance the simple apparatus of Franklin ought not to be the foundation for the broad method claims here put forth. While perhaps not anticipated, they involve no such invention as entitles to monopoly.

The apparatus claims have a different status. They propose a new machine to better accomplish the useful result. They were rewritten to state for the first time that only a single string of pipe is to be used. In view of the oil well art, the omission of the Edwards second pipe to maintain circulation involves no such invention as to give a monopoly of all single string testers as is here claimed. It

[7] The opinion refers to Stewart, No. 171,589, Dec. 28, 1875; Stewart, No. 230,080, July 13, 1880; Koch, No. 208,610, Oct. 1, 1878; Bloom, No. 785,933, Mar. 28, 1905; McCready, No. 1,522,197, Jan. 6, 1925; and Cooper, No. 1,000,583, Aug. 15, 1911.

may be a simplifying improvement on which to rest a combination patent but it is not a basic and pioneer invention. Positive pressure of the packer against the well walls, also written into the claims, appears to refer to the weight of the pipe on the rat-hole packer, but that is the way a rat-hole packer has always worked. The claims in suit can not be sustained in all their breadth but must be limited to the form of the apparatus disclosed.

The Circuit Court of Appeals for the Ninth Circuit, upon considerations in substance the same as those suggested in the opinion of the Circuit Court of Appeals for the Fifth Circuit, held that the apparatus claims of the patent in suit were anticipated by the patent to Franklin. But, holding that invalidity of apparatus claims does not negative discovery of method or process, that court in substance said:

The Franklin patent directs the pipe to be lowered into the well and the valve to be operated by movement of the pipe so as to control the flow of oil. It teaches that the tube can be kept empty by closing the valve while it is being lowered and that it should be closed prior to its removal. The device is to be used in a flowing well which, of course, contains no drilling fluid. At the time of that patent the rotary method of drilling was unknown. Its purposes were to provide a method of keeping the tubing closed while being lowered into or removed from the well and means of temporarily closing the tubing to allow the gas in the well to obtain sufficient head so that the well would flow There is disclosed no use for taking entrapped samples from unfinished wells containing drilling fluid. There is no suggestion of this last step of the patented process; the device was evidently intended to be permanently attached to the tubing of the well.

Simmons, applicant for the patent in suit, faced the problem of providing a method of testing an oil well without removing hydrostatic pressure necessary for support of the formation in question. He met it by a method operating so quickly that the suspension of the circulation of drilling fluid was not substantially greater than that frequently necessary in drilling operations. Franklin neither considered nor solved this problem.

The Simmons discovery constituted invention. It disclosed what had not been thought possible in the art, that is, that such a device could be set in a well containing drilling fluid not in circulation long enough to make the test; it substituted a much better process than had been in use. The discovery was that a well could be safely tested by lowering a single string of pipe equipped with a valve packer and strainer and that it was not necessary to set the casing permanently and bail out the drilling fluid; or, if a test were attempted without permanently setting the casing, it was not necessary to provide an extra string of pipe for circulation of the drilling fluid.

1. Plaintiffs, insisting that the apparatus claims are not invalid for lack of invention, emphasize the fact that the Franklin apparatus was intended to be used to govern flow of a finished well and not for testing productivity of formations encountered in drilling; they maintain that it is not adapted to the last mentioned use without significant changes and they suggest that even a very slight change is enough to give patentability to the changed apparatus if the change is foreign to the purposes of the Franklin apparatus and dictated by those of the apparatus in suit. They say that the essential features of the latter, not found in the Franklin patent, are a packer so related to the inlet that it may seal off the formation to be tested from the hydrostatic pressure of the mud-laden fluid standing in the well during the testing operation, a valve so positioned with respect to the packer inlet that when closed it will entrap the entire flow of the cognate fluid to result from natural pressure in the formation when relieved from pressure of the drilling fluid, and so constructed that it will hold and bring to the surface the entrapped sample uncontaminated and undiminished.

The specification of Franklin's patent states that his invention consists in providing a device which can be connected with the tubing of the well above a "packer". On ample evidence, the trial and appellate courts found that packers to separate the producing strata from the others were old in the art, and that the use of a packer, substantially as the same exists today, is necessarily implied from the language of the Franklin patent. Detailed description by Franklin was unnecessary. *Webster Loom Co.* v. *Higgins*, 105 U. S. 580, 586, 21 O. G. 2031.

Franklin's specification states that the device containing the valve should be "preferably . . . above the packer" and that "it may be placed deep in the well and thereby obtain considerable advantage". This indicates a valve just above the packer as is true with respect to the patent in suit. But even assuming the contrary, in view of prior art as disclosed by the Cox and Edwards patents, the location of the valve as indicated by the patent in suit is mere mechanical contrivance and not invention. *Hollister* v. *Benedict Manufacturing Co.*, 113 U. S. 59, 73.

It is assumed, as claimed by plaintiffs, that the valve of the Franklin device was made so that it would let the contents of the pipe escape while it was being taken out of the well. But by mere substitution of a tight valve for a leaky one the device would be made to hold and bring up samples from the formation below the packer. The difference between the Franklin valve, leaking while being drawn from the well, and that of the patent in suit, purposely made to close tightly, is not an essential or patentable element.

In wells where there exists natural pressure in the formation below the packer sufficient to force the fluid to the surface, either device, the Franklin or the one in suit, may be used to control flow of the well and so disclose the productivity of that stratum. It is equally plain that, in the absence

of adequate pressure to carry to the surface, the Franklin device with a valve effectively closed would, if operated in accordance with the method claimed in the patent in suit, similarly receive, hold, and bring to the surface samples from the formation.

The apparatus claims are invalid.

2. As used in the statute,[9] "useful art" includes method which in this case is used interchangeably with process; "machine" includes apparatus.[9] Having held the apparatus not new, we come to the question whether claims 8 and 18 cover any new method or process.[10] These claims relate to "a method of testing". The claims relating to the device call it an "apparatus for testing". In the method claims[11] and in some relating to apparatus,[12] the phrases just quoted are followed by identical words: "the productivity of a formation encountered in a well containing drilling fluid."[13] The elements to be employed in taking the steps constituting the method are essentially the same as those constituting the apparatus. The process consists of "lowering an empty string of pipe", "setting the packer", "opening the valved inlet", "closing the valved inlet", "raising the pipe so closed to remove an entrapped sample and the packer from the well". The result to be achieved by the method claimed to be new is precisely the same as that for the attainment of which the apparatus found to be old was contrived.

As already shown the Franklin apparatus served to bring out uncontaminated the oil yielded by the stratum below the packer. The method practiced by its use includes in the same order all the steps, except the last one, that constitute the process in question. That step is the raising of the pipe containing the entrapped sample. As the Franklin device was to control flow and not to test productivity of strata reached before completion of wells, the final movement to be taken in the process under consideration was not involved or described. But that movement is substantially disclosed by the Cox and Edwards patents. No discussion, in addition to the convincing exposition by the Circuit Court of Appeals for the Fifth Circuit, is required to show that the method claimed in suit was clearly indicated in the prior art. It cannot reasonably be held that anything more than mechanical skill of men familiar with known methods of obtaining oil from formations below packers would be required to suggest the raising of the pipe containing fluid entrapped and held by effective closing of the valve.

The method claims are invalid.

[9] 35 U. S. C. § 31.
[9] *Corning* v. *Burden*, 15 How. 252, 267.
[10] See *Risdon Locomotive Works* v. *Medart*, 158 U. S. 68, 77, 79. *Expanded Metal Co.* v. *Bradford*, 214 U. S. 366, 383. *Tilghman* v. *Proctor*, 102 U. S. 707.
[11] Claims 8 and 18.
[12] Claims 13, 14, 15, 16, 17, 19.
[13] To show identical subject matter in the two sets of claims, defendants present an analysis of method claim 18 and apparatus claim 19 in parallel arrangement as follows:

18.	19.
A method of testing the productivity of a formation encountered in a well containing drilling fluid involving	An apparatus for testing the productivity of a formation in a well containing drilling fluid, comprising
the insertion of only a single string of pipe into the well to make a test, which includes lowering a a test string into the well through the drilling fluid	a string of pipe [a string of pipe] to be lowered into the well through the drilling fluid to adjacent the formation . . . and to be raised out of the well to remove the entrapped sample, . . .
with a packer carried by the string and a valve inlet at the lower end of the string closed against the entrance of fluid from the well,	a packer carried by the pipe as the pipe is lowered into the well . . . an inlet to the pipe communicating with the well below the point at which the packer seals off the well,
setting the packer above the formation . . .	[the packer is] adapted to be seated by manipulation of the pipe to seal off the well above the formation, said packer adapted to be positively pressed against the walls of the formation to seal off the same,
closing the valve to prevent the subsequent entrance of fluid from the well through the inlet and releasing the packer, and raising the test string with the inlet closed against entrance of fluid from the well to remove an entrapped sample.	and means for controlling the inlet to permit fluid from the formation to enter the pipe while the packer is set and to prevent fluid from entering the pipe after the packer is released and the pipe is being raised out of the well [to remove the entrapped sample].

The part of the decree of the circuit court of appeals brought up by defendants' petition is reversed. The part brought up by plaintiffs' petition is affirmed. The decree of the district court is affirmed.

It is so ordered.

The Chief Justice took no part in the consideration or decision of this case.

Supreme Court of the United States

ELECTRICAL FITTINGS CORPORATION, JOSELSON SALES CORPORATION, SAMUEL JOSELSON AND BELLE JOSELSON

v.

THE THOMAS & BETTS CO. AND NATIONAL ELECTRICAL PRODUCTS CORPORATION

No. 582. Decided May 22, 1939

PATENTS—INFRINGEMENT—HOLDING OF VALIDITY NOT TO BE MADE IF NON-INFRINGEMENT IS FOUND.

Where in a suit for infringement of a patent the district court held a claim valid but not infringed and the defendants appealed from the holding of validity and the court of appeals dismissed the appeal on the ground that defendants had been awarded all the relief to which they were entitled, the litigation having terminated finally in their favor, *Held* that though the adjudication of validity "was immaterial to the disposition of the cause, it stands as an adjudication of one of the issues litigated. We think the petitioners were entitled to have this portion of the decree eliminated, and that the circuit court of appeals had jurisdiction, as we have held this Court has, to entertain the appeal, not for the purpose of passing on the merits, but to direct the reformation of the decree."

ON WRIT of certiorari to the United States Circuit Court of Appeals for the Second Circuit. Reversed and remanded.

Mr. Samuel E. Darby, Jr. (*Mr. Floyd H. Crews* with him on the brief) for Electrical Fittings Corporation, Joselson Sales Corporation, Samuel Joselson and Belle Joselson.

Mr. George Whitefield Betts, Jr. (*Mr. William Bohleber* and *Mr. Francis H. Fassett* with him on the brief) for The Thomas & Betts Co. and National Electrical Products Corporation.

Mr. Justice ROBERTS delivered the opinion of the Court.

This was a suit in equity by the respondents for alleged infringement of a patent. The district court held claim 1 valid but not infringed and claim 2 invalid.[1] Instead of dismissing the bill without more, it entered a decree adjudging claim 1 valid but dismissing the bill for failure to prove infringement.

The respondents did not appeal, but filed in the Patent Office a disclaimer of claim 2. The petitioners appealed to the circuit court of appeals from so much of the decree as adjudicated claim 1 valid. The appeal was dismissed on the ground that the petitioners had been awarded all the relief to which they were entitled, the litigation having finally terminated in their favor.[2] The court was of opinion that the decree would not bind the petitioners in subsequent suits on the issue of the validity of claim 1.

We granted certiorari because of an alleged conflict of decision.[3]

A party may not appeal from a judgment or decree in his favor, for the purpose of obtaining a review of findings he deems erroneous which are not necessary to support the decree.[4] But here the decree itself purports to adjudge the validity of claim 1, and though the adjudication was immaterial to the disposition of the cause, it stands as an adjudication of one of the issues litigated. We think the petitioners were entitled to have this portion of the decree eliminated, and that the circuit court of appeals had jurisdiction,[5] as we have held this Court has,[6] to entertain the appeal, not for the purpose of passing on the merits, but to direct the reformation of the decree.

The judgment is reversed, and the cause is remanded to the circuit court of appeals with instructions to entertain the appeal and direct the district court to reform its decree in accordance with the views herein expressed.

[1] 23 F. Supp. 920.
[2] 100 F.(2d) 403.
[3] See *Oliver-Sherwood Co.* v. *Patterson-Ballagh Corp.*, 95 F.(2d) 71.
[4] *Lindheimer* v. *Illinois Bell Tel. Co.*, 292 U. S. 151, 176.
[5] See 28 U. S. C. § 225.
[6] *Gully* v. *Interstate Nat. Gas Co.*, 292 U. S. 16; *Oklahoma Gas & Elec. Co.* v. *Oklahoma Packing Co.*, 292 U. S. 386; *William Jameson & Co.* v. *Morgenthau*, decided May 15, 1939.

U. S. Court of Customs and Patent Appeals

TRADERS OIL MILL CO.

v.

LEVER BROTHERS COMPANY

No. 4,080. Decided February 6, 1939

1. TRADE-MARKS—OPPOSITION—GOODS OF SAME DESCRIPTIVE PROPERTIES—COTTONSEED FLOUR AND VEGETABLE SHORTENING.
Partially defatted cooked cottonseed flour and vegetable shortening in which cottonseed or cottonseed derivatives are used *Held* goods of the same descriptive properties.
2. SAME—SAME—SIMILARITY OF MARKS—APPEARANCE.
"Appearance is only one of the factors to be considered in passing upon the similarity of marks."
3. SAME—SAME—SAME—SOUND.
"That similarity in sound alone is sufficient to constitute confusing similarity between marks is well established."
4. SAME—SAME—SAME—"COFLO" AND "COVO".
Where registration of a trade-mark consisting of the notation "CoFlo", surrounded by a border, for partially defatted cooked cottonseed flour was opposed by the owner of the trade-mark "Covo" registered for use on vegetable shortening, *Held* "that their concurrent use is likely to cause confusion or mistake in the mind of the public".

APPEAL from Patent Office. Affirmed.

Mr. Clarence A. O'Brien (*Mr. Clarence R. Gorman*, *Mr. Joseph A. O'Connell* and *Mr. C. Ludwell Hyde* of counsel) for Traders Oil Mill Co.

Mr. Spencer A. Studwell and *Mr. Harry A. English* for Lever Brothers Company.

LENROOT, *J.*:

This is an appeal in a trade-mark opposition proceeding. Appellant on July 24, 1935, filed in the United States Patent Office its application for the registration of its mark consisting of the notation "CoFlo", surrounded by a border, for partially defatted cooked cottonseed flour. Use of the mark was alleged since March 9, 1935.

Appellee filed notice of opposition to said application, alleging ownership of the trade-mark "Covo", applied to vegetable shortening in which cottonseed or cottonseed derivatives are used; that said mark had been used by it for vegetable shortening since June 9, 1932; that said mark was registered by it for vegetable shortening on November 1, 1932; that the goods to which its mark is applied are of the same descriptive properties as the goods to which appellant applies its mark "CoFlo", and that the said marks are confusingly similar. The usual allegation of damage to appellee was made.

Appellant in its answer denied that the goods to which the respective marks are applied are of the same descriptive properties, and denied that the marks as used by the parties are confusingly similar.

Both parties took testimony. The testimony shows that appellee used its mark "Covo" long prior to the use by appellant of its mark; that appellant's product is sold "to people that are interested in making baked foods, and that includes baker, the cakes and cooky plants, biscuit manufacturers," etc.; that appellant's product is not a shortening, but is to be used with flour, and its use increases

the amount of shortening necessary; that appellant's products are sold in containers usually consisting of hundred pound drums, but has also been sold in fifty and twenty pound containers; that appellee's product is sold in containers ranging in capacity from fifty to four hundred pounds.

The Examiner of Interferences dismissed appellee's notice of opposition, holding that purchasers of both products are of a discriminating class and, considering the difference in the goods and the difference in the marks, confusion would not be likely if the marks are honestly used in trade.

Upon appeal the Commissioner reversed this decision, holding that the goods to which the respective marks are applied are of the same descriptive properties; that while the two marks differ in appearance, they sound very much alike; that there must be a large class of purchasers even of the fifty and one hundred pound packages of the goods of the parties who would not be discriminating and who were not necessarily educated English speaking people. He expressed the opinion that confusion would be inevitable in the use of the respective marks.

From said decision of the Commissioner this appeal was taken.

[1] That the goods to which the marks of the respective parties are applied are goods of the same descriptive properties, we have no doubt. *Sun-Maid Raisin Growers of California* v. *American Grocer Co.*, 17 C. C. P. A. (Patents) 1034, 40 F.(2d) 116, 395 O. G. 3.

We are also in agreement with the Commissioner that the goods of the parties, even though sold in comparatively large containers, are not necessarily purchased by careful, discriminating buyers. They are products of continuing use and are not, as a rule, subject to visual inspection by the purchaser.

[2] [3] It is true that the goods are not identical, but they are used conjointly by the same people in the preparation of products sold to the ultimate consumer. It is also true that the marks of the parties differ in appearance by reason of the central "F" in appellant's mark extending above and below the other letters of the mark. If the matter were to be determined from the appearance of the marks alone we would be inclined to agree with the Examiner of Interferences that, considering the difference in goods and the difference in marks, confusion would not be likely to arise out of the concurrent use of the two marks. But appearance is only one of the factors to be considered in passing upon the similarity of marks. That similarity in sound alone is sufficient to constitute confusing similarity between marks is well established. *E-Z Mills, Inc.*, v. *Martin Brothers Company*, 25 C. C. P. A. (Patents) 992, 95 F.(2d) 269, 494 O. G. 475.

In these days of radio advertising the sound of trade-marks has become very important. *Marion Lambert, Inc.*, v. *O'Connor*, 24 C. C. P. A. (Patents) 781, 86 F.(2d) 980, 477 O. G. 244.

That the terms "Covo" and "CoFlo" are very similar in sound is apparent, and we think users of the products of the parties are very likely to become confused by the similarity of their sound.

[4] After giving due consideration to the differences in the marks of the parties and the differences in the goods to which the respective marks are applied, we are of the opinion that their concurrent use is likely to cause confusion or mistake in the mind of the public.

We think it proper to observe that we are impressed from the evidence that appellant acted in good faith in the adoption of its mark and had no knowledge of the mark of appellee.

For the reasons stated herein, the decision of the Commissioner is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

CALIFORNIA PRUNE AND APRICOT GROWERS

v.

DOBRY FLOUR MILLS, INC.

No. 4,096. Decided February 6, 1939

[101 F.(2d) 838]

1. TRADE-MARKS—CANCELLATION—GOODS OF SAME DESCRIPTIVE PROPERTIES—DRIED FRUITS AND WHEAT FLOUR.

Dried fruits *Held* goods of the same descriptive properties as wheat flour.

2. SAME—SAME—SIMILARITY OF MARKS—ONE FEATURE OF MARK MAY DOMINATE.

"It is well established that one word or feature of a mark may be the dominant portion thereof, and be given greater force and effect than other parts of the mark in determining confusing similarity between it and another mark used upon goods of the same descriptive properties."

3. SAME—SAME—SAME.

Trade-mark consisting of the name "Dobry's", below which in larger letters is the term "Sunsweet", and a purported representation of the sun, all enclosed within an elborate border, *Held* confusingly similar to the mark "Sunsweet", in association with a sun design, for which petitioner for cancellation was conceded prior use upon dried fruits, canned fruits and the like, and *Held* that the petition for cancellation should have been sustained.

APPEAL from Patent Office. Reversed.

Messrs. Jackson and Webster (*Mr. W. G. MacKay* and *Mr. Charles R. Allen* of counsel) for California Prune and Apricot Growers Association.

No appearance for Dobry Flour Mills.

LENROOT, *J.*:

This is an appeal in a trade-mark cancellation proceeding. Appellee, on February 11, 1936, was granted registration No. 332,384 under the Trade-Mark Act of February 20, 1905; said registration was for a mark which consisted of the name "Dobry's", below which in larger letters is the term "Sunsweet", and a purported representation of the sun, all enclosed within an elaborate border. The statement declares that the mark was used and adopted for wheat flour, and that the first use by the registrant was on August 14, 1935.

On March 27, 1936, appellant filed its petition for the cancellation of said mark of appellee under section 13 of said Trade-Mark Act, alleging use of the mark "Sunsweet" in association with a sun design upon fresh, dried, and canned fruits, jams, etc., since long prior to August 14, 1935, and alleging seven registrations of its mark, beginning in 1918 and ending in 1935. These registrations are found in the record and cover fresh, dried, and canned fruits of different kinds and forms. The petition alleged that the goods to which the respective marks are applied are of the same descriptive properties and that the marks are confusingly similar. The petition also contains the usual allegation of damage to petitioner.

Appellee in its answer denied that the goods upon which its mark is applied are of the same descriptive properties as the goods enumerated by the petition, and denied that the marks as used by the parties are confusingly similar. The answer admitted that, at the time appellee applied for the registration of its mark, it was aware of the registrations of the petitioner's mark.

No testimony was taken, but the issue was submitted on stipulations of fact; such stipulations establish that appellant and its predecessors in business have, since July, 1917, continuously used the mark "Sunsweet" associated with a sun design as a trade-mark for dried fruits, canned fruits, crushed fruits, jams, butters, fruit juices, and dessert preparations; that appellant's goods are—

"distributed and sold in boxes, bags, cartons, cans and sacks through wholesale and retail outlets, and are offered to the consuming public through grocery stores, markets and food stores of all kinds;"

that appellant and its predecessor have sold food products bearing its mark to the approximate value of $150,000,000, and have spent approximately $3,000,000 in advertising its said mark; also that appellee is engaged in the milling business exclusively and that its registered mark is used upon sacks and containers which bear the registrant's name and location in plain lettering, and has been so used since August 14, 1935; and that—

"there is no similarity in the dress of the goods of the parties to this cancellation."

The Examiner of Interferences held that the goods of the parties to which the respective marks are applied possess the same descriptive properties; that the dominating portion of appellee's mark is the notation "Sunsweet", and that, considering the marks of the parties in their entirety and the specific differences in characteristics of the goods, confusion would be likely to result from their concurrent use. He therefore sustained the petition for cancellation and recommended that the involved registration of appellee be cancelled. Upon appeal the Commissioner, by his assistant, held that, while broadly speaking, wheat flour is of the same descriptive properties as fruit and fruit products, considering the difference in goods and the difference in marks, there was no probability of confusion between the marks. He therefore reversed the decision of the Examiner and dismissed the petition of appellant. From such decision this appeal was taken by appellant. Appellee has made no appearance in this court.

[1] It is a matter of common knowledge that both dried fruits and wheat flour are ingredients in certain kinds of pastry. That they are goods of the same descriptive properties we have no doubt. *Sun-Maid Raisin Growers of California* v. *American Grocer Company*, 17 C. C. P. A. (Patents) 1034, 40 F.(2d) 116, 395 O. G. 3; *Cheek-Neal Coffee Co. et al.* v. *Hal Dick Manufacturing Company*, 17 C. C. P. A. (Patents) 1103, 40 F.(2d) 106, 395 O. G. 10.

[2] The Commissioner relied largely upon our decision in the case of *Tetley & Co., Inc.*, v. *Bay State Fishing Co.*, 23 C. C. P. A. (Patents) 969, 82 F.(2d) 299, 468 O. G. 278, wherein it was held that the marks "Budget Special", applied to fish, and "Tetley Budget Tea", applied to tea, the words "Special" and "Tea" being disclaimed, were not confusingly similar. The Commissioner quoted from our opinion wherein we said:

"In considering the mark of the opposer, the name 'Tetley' is to be given as much force and effect as any other part of the mark."

We think that, properly construed, this expression does not imply that every word in a mark is to be given the same force and effect as any other part of the mark. It is well established that one word or feature of a mark may be the dominant portion thereof, and be given greater force and effect than other parts of the mark in determining confusing similarity between it and another mark used upon goods of the same descriptive properties. *Baltimore Paint & Color Works* v. *Bennett Glass & Paint Co.*, 17 C. C. P. A. (Patents) 1269, 40 F.(2d) 1009, 401 O. G. 237.

There is no conflict between this rule and the equally well-established rule that, in determining the question of confusing similarity between marks, they must be considered in their entirety.

A case very similar to that at bar is that of *Hellman, Inc.*, v. *Oakford & Fahnestock*, 19 C. C. P. A. (Patents) 816, 54 F.(2d) 423, 417 O. G. 848. The marks there involved were "Blue Ribbon", used by the appellee there, and "Richard Hellman's Blue Ribbon", used by the appellant there, both marks being used upon goods of the same descriptive properties. In our opinion, affirming the decision of the Commissioner, we said:

• • • The marks are so similar that if applied to identical goods or goods of the same descriptive properties, confusion would be likely. Under such circumstances it was the duty of the Commissioner to refuse registration of the appellant's mark.

[3] There, as here, the only important distinguishing difference between the two marks was the name of an individual. In that case the dominant part of appellant's mark was "Blue Ribbon", which was the dominant part of the mark of appellee. In the case at bar the dominant part of appellee's mark is the notation "Sunsweet", which is the dominant part of appellant's mark. In addition, both marks here involved have a representation of the sun. We have no hesitation in holding that the marks of the parties are confusingly similar, and that appellant has been damaged by the registration of appellee's mark. To hold otherwise would make it possible for one to appropriate a trade-mark which, through extensive advertising, had be-

come a household word, by adding thereto the name of an individual. Many others might do likewise and the value of the trade-mark to the first adopter and user might be largely destroyed.

We hold that, upon the record before us, the petition of appellant should have been sustained, and the decision of the Commissioner is reversed.

Reversed.

JACKSON, *J.*, dissents.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,317,912, T. C. Dyer, Steering gear for automobiles; 1,577,821, W. P. Campbell, Stabilizing device, C. C. A., 8th Cir., Doc. 11471, *Western Auto Supply Co.* v. *H. S. Clair et al.* (*Anti-Shimmie Manufacturing Co.*). Dismissed pursuant to stipulation Apr. 12, 1939. Doc. 11472, *H. S. Clair et al.* (*Anti-Shimmie Manufacturing Co.*) v. *Western Auto Supply Co.* Decree as above.

1,320,662, W. H. Tomlinson, Doughnut machine; 1,492,541, 1,492,542, 1,665,017, 1,807,820, J. C. Bergner, Cooking apparatus; 1,814,930, Re. 19,535 (of 1,965,241), H. T. Hunter, same, D. C., E. D. Mich. (Detroit), Doc. 7595, *Doughnut Corp. of America* v. *F. W. Stock & Sons, Inc.* Dismissed on motion Apr. 24, 1939.

1,474,858, H. Strohbach, Coffee urn, D. C., S. D. N. Y., Doc. E 85/107, *H. Strohbach* v. *The Bastian-Blessing Co.* Stipulation dismissing cause without prejudice (notice Apr. 3, 1939).

1,492,541. (See 1,320,662.) 1,492,542. (See 1,320,662.)

1,497,543, N. K. Chaney, Adsorptive carbon and process of making same; 1,497,544, same, Adsorbent charcoal and process for making same, D. C., S. D. Ohio, E. Div., Doc. E 352, *National Carbon Co., Inc.*, v. *The Barnebey-Cheney Engineering Co.* Patent held infringed, injunction Apr. 28, 1939.

1,497,544. (See 1,497,543.)

1,512,869, B. Valjean, Combustion apparatus, C. C. A., 6th Cir., Doc. 7761, *B. Valjean et al.* v. *Perfection Stove Co.* Patent held not infringed Apr. 7, 1939.

1,526,982, E. W. Hill, Stencil sheet, D. C., S. D. N. Y., Doc. E 61/399, *A. B. Dick Co.* v. *Duplicating Machine & Supply Corp. et al.* Interlocutory decree for plaintiff Apr. 6, 1934. Dismissed for lack of prosecution Apr. 19, 1939.

1,557,952, Whidden & McCartney, Battery, D. C., N. D. Calif. (San Francisco), Doc. E 4209–S, *W. L. Whidden et al.* v. *Electric Storage Battery Co.* Dismissed for lack of prosecution Apr. 3, 1939.

1,577,821. (See 1,317,912.)

1,585,318, A. W. Tupper, Time controlled electric signaling device; 1,585,319, same, Periodic electric signaling device; Re. 19,922, E. J. Gengler, Stock enclosure and system of electrically charging same; Re. 20,725, L. Heidger, Electric fence, D. C., W. D. Mo. (Kansas City), Doc. 91, *E. J. Gengler et al.* v. *A. G. Hovey et al.* (*Hovey-Hays Co.*). Consent decree for plaintiff, injunction Apr. 26, 1939. Same, filed May 2, 1939, D. C., E. D. Ill., (E. St. Louis), Doc. 106, *E. J. Gengler et al.* v. *Sears, Roebuck & Co.*

1,585,319. (See 1,585,318.)

1,600,950, O. C. Schmidt, Carcass dehairing machine, D. C., E. D. Wash., S. Div., Doc. E 1664, *The Cincinnati Butchers' Supply Co.* v. *E. Schaake et al.* Injunction granted Mar. 24, 1939.

1,621,949, G. A. Overstrom, Vibrating screen, D. C., Tex. (Houston), Doc. 16, *G. A. Overstrom* v. *Gulf Engineers, Inc.* Consent decree, injunction granted Apr. 24, 1939.

1,628,062, N. P. Petersen, Coin slot mechanism for vending machines, filed Apr. 24, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 343, *C. A. M. Petersen* v. *Coast Cigarette Vendors, Inc.*

1,633,008, J. M. Elffe, Mop wringer, filed Apr. 4, 1939, D. C., S. D. N. Y., Doc. 3/194, *White Mop Wringer Co.* v. *L. B. Gringer et al.* (*Ultra Mfg. Co.*).

1,634,769, A. D. Brixey, Framing device; 1,746,386, A. Dina, Film trap door lock; 1,764,939, same, Pad roller arm; 1,771,748, same, Bracket for projection-machine shutters; 1,774,789, same, Intermittent couple and adjustment; 1,776,109, same, Supporting pedestal; 1,830,158, same, Film trap and film trapdoor; 1,834,205, same, Framing mechanism; 1,869,852, A. Kindelmann, Aperture plate; 1,884,606, A. Dina, Gate operating mechanism; 1,933,549, L. S. Frappier et al., Projection machine; 1,946,700, A. Kindelmann, Shutter shaft support, filed Apr. 17, 1939, D. C., N. D. Ill., E. Div., Doc. 495, *International Projector Corp.* v. *Mack Wenzel* (*Wenzel Co.*).

1,650,897, A. J. Liebmann, Tungsten contact breaker arm, D. C., S. D. N. Y., Doc. E 68/211, *P. R. Mallory & Co., Inc.*, v. *Chadwick, De Lamater Corp.* Stipulation of dismissal (notice Apr. 5, 1939).

1,665,017. (See 1,320,662.)

1,699,084, Stickel & McDonnell, Eyelash curler; 1,904,575, Tuttle & Stickel, same, D. C., S. D. N. Y., Doc. E 79/186, *The Kurlash Co., Inc.*, v. *Buti-Lash Co., Inc.* Consent decree for plaintiff (notice Apr. 25, 1939).

1,705,809, W. N. Davis et al., Process of removing sulphur compounds from petroleum oils; 1,864,755, Osmer & Cralse, Method and apparatus for treating oils; 1,869,885, Davis & Hampton, Method of making motor fuel, filed Apr. 25, 1939, D. C. Del., Doc. 40, *Standard Oil Co. of Calif.* v. *Tide Water Associated Oil Co.*

1,718,025, R. Bishinger, Hair curling appliance; Re. 18,852 (of Re. 18,841), J. Mayer, same; 1,894,612, same, Hair waving apparatus, suit for declaratory judgment filed Apr. 3, 1939, D. C. Del., Doc. 37, *Killing-Arnao Co.* v. *The Philad Co.*

1,746,386. (See 1,634,769.) 1,764,939. (See 1,634,769.)

1,771,748. (See 1,634,769.) 1,774,789. (See 1,634,769.)

1,776,109. (See 1,634,769.)

1,803,875, W. F. Stoody, et al., Method of facing tools and resulting product, D. C., S. D. Tex. (Houston), Doc. E 719, *Stoody Co.* v. *Diamond Metal Co., Inc.* Doc. E 720, *Stoody Co.* v. *The Brewster Co., Inc.* Doc. E 721, *Stoody Co.* v. *O. H. Van Horn Co., Inc.* Dismissed without prejudice in each of above cases Apr. 22, 1939.

1,807,820. (See 1,320,662.) 1,814,930. (See 1,320,662.)

1,830,158. (See 1,634,769.) 1,834,205. (See 1,634,769.)

1,841,159, L. Silverman, Method of making textile fabrics, D. C., S. D. N. Y., Doc. E 72/382, *Millinery Braid Manufacturers Research Corp.* v. *Arlyn Knitting Mills, Inc., et al.* Interlocutory decree for plaintiff Aug. 6, 1934. Dismissed for lack of prosecution (notice Apr. 19, 1939).

1,864,755. (See 1,705,809.) 1,869,852. (See 1,634,769.)

1,869,885. (See 1,705,809.)

1,882,213, E. B. Donovan, Trocar, D. C., S. D. Iowa, C. Div., Doc. 5, *E. B. Donovan* v. *H. E. Blackman.* Dismissed Apr. 25, 1939.

1,884,606. (See 1,634,769.) 1,894,612. (See 1,718,025.)

1,904,575. (See 1,699,084.)

1,907,906, S. V. Van Riper, Mail chute, filed Apr. 28, 1939, D. C., E. D. N. Y., Doc. 352, *Cutler Mail Chute Co.* v. *Capitol Mail Chute Corp.*

1,916,586, Robinson & Collins, Electrolytic device; 1,935,860, P. Robinson, same; 1,948,289, H. I. Danziger, Electrolytic condenser, D. C. Del., Doc. E 1077, *Sprague Specialties Co.* v. *Polyment Mfg. Corp.* Consent decree dismissing bill without prejudice Apr. 6, 1939.

1,917,261, P. E. Hawkinson, Method of retreading tire casings; 1,917,262, same, Apparatus for retreading tire casings; 2,034,618, same, Tire retreading apparatus, D. C., W. D. Wash., N. Div., Doc. 1224, *P. E. Hawkinson Co.* v. *Barnes & Fisher Mfg. Co.* Dismissed Apr. 26, 1939.

1,917,262. (See 1,917,261.) 1,933,549. (See 1,634,769.)

1,935,596, E. D. Fear, Method of increasing the food value of frozen comestibles, filed Apr. 26, 1939, D. C., W. D. Mo. (Kansas City), Doc. 215, *De-Raef Corp.* v. *Mayer Blanke Co.*

1,935,860. (See 1,916,586.) 1,946,700. (See 1,634,769.)

1,948,289. (See 1,916,586.)

1,952,230, G. V. Anderson, Automatic profile milling machine, D. C., E. D. Mich., S. Div., Doc. 758, *The Cincinnati Milling Machine Co.* v. *E. L. Wall et al.* Consent decree (notice Apr. 26, 1939).

1,957,964, L. E. Jones, Method and apparatus for treating fruit, filed Apr. 25, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 25, *Food Machinery Corp.* v. *Brogdex Co. et al.*

1,965,241. (See 1,320,662.)

1,969,307, C. A. Kaufman, Hosiery and the manufacture thereof, D. C. Del., Doc. E 1097, *Julius Kayser & Co. et al.* v. *Arthur's Apparel Shop, Inc.* Consent decree dismissing bill without prejudice Mar. 31, 1939.

1,981,197, F. B. Roberts, Method and apparatus for drying fruit; Re. 19,877, L. E. Jones, Method and apparatus for treating fruit, filed Apr. 25, 1939, D. C., S. D. Calif., C. Div., Doc. 347 RJ, *Food Machinery Corp.* v. *Griffith Equipment Co., Inc., et al.*

2,030,725, M. A. Sticelber, Means for controlling temperatures in the refrigerating systems of package sealing machines; 2,092,144, same, Sealing machine; 2,049,876, same, Sealing equipment for wrapping machines; 2,053,540, W. Stoneman, Jr., Heat-exchange unit for wrapping machines; 2,103,544, W. N. McWade, Refrigerated sealing equipment, D. C., W. D. Mo. (Kansas City), Doc. 134, *Quick-Seal, Inc.*, v. *M. A. Sticelber et al.* Dismissed with prejudice (notice Apr. 28, 1939).

2,034,618. (See 1,917,261.) 2,043,757. (See 2,059,530.)

2,049,876. (See 2,030,725.)

2,052,221, W. J. Dubil, Method of preparing fresh meat, filed Apr. 19, 1939, D. C., N. D. Calif. (San Francisco), Doc. 21200–S, *W. J. Dubil et al.* v. *J. D. Shearer et al.*

2,053,540. (See 2,030,725.)

2,059,530, H. J. Lay, Broom and method of making same, 2,043,757, same, Broom, included by amended complaint Apr. 24, 1939, D. C. N. D. Ind. (Fort Wayne), Doc. E 429, *H. J. Lay et al.* v. *The Standard Brush & Broom Co. et al.*

2,059,653, M. Pretzfelder, Christmas tree ornament, D. C., S. D. N. Y., Doc. E 86/253, *Paper Novelty Mfg. Co.* v. *National Tinsel Mfg. Co.* Consent order of discontinuance without prejudice Apr. 21, 1939.

2,091,065, K. H. Buettner, Extension door for garage and other buildings, D. C. Md., Doc. 10, *K. H. Buettner* v. *O. F. Hansen.* Dismissed with prejudice Mar. 10, 1939.

2,092,144. (See 2,030,725.) 2,103,544. (See 2,030,725.)

2,107,512, J. Steinberg, Means for laying-in elastic strand in the edge of a mesh fabric, filed Apr. 25, 1939, D. C., S. D. N. Y., Doc. 3/336, *J. Steinberg et al.* v. *Abood* (*Abood Knitting Mills*).

2,127,366, C. P. Mele, Garment, filed Apr. 26, 1939, D. C., S. D. N. Y., Doc. 3/372, *C. P. Mele* v. *R. H. Macy & Co., Inc.*

Re. 17,769, R. Morris, Rotary dispensing bin, filed Apr. 28, 1939, D. C., S. D. Calif., C. Div., Doc. 345–H, *Food Machinery Corp.* v. *Griffith Equipment Co., Inc. et al.*

Re. 18,841. (See 1,718,025.)

Re. 18,852. (See 1,718,025.)

Re. 19,535. (See 1,320,662.)

Re. 19,877. (See 1,981,197.)

Re. 19,922. (See 1,585,318.)

Re. 20,725. (See 1,585,318.)

Des. 77,857, C. A. Petersen, Service-station booth, D. C. Mich. (Grand Rapids), Doc. 2827, *The Pure Oil Co.* v. *F. H. Ruthsatz et al.* Decree for plaintiff, injunction Apr. 26, 1939.

Des. 95,917, Des. 95,918, C. D. McCann, Lighting fixture; Des. 95,973, Des. 95,974, same, Surface supported lighting fixture, filed Apr. 20, 1939, D. C., S. D. Iowa (Des Moines), Doc. 26, *Modern Lighting & Mfg. Co.* v. *W. H. Eddy.*

Des. 95,918. (See Des. 95,917.)

Des. 95,973. (See Des. 95,917.)

Des. 95,974. (See Des. 95,917.)

Des. 107,409, Dick & Fletcher, Tobacco ash receptacle, filed Apr. 15, 1939, D. C., S. D. Iowa, C. Div., Doc. 25, *T. Dick* v. *Midwest Metal Stamping Co.*

Des. 107,727, V. Rose, Dress, D. C., S. D. N. Y., Doc. E 86/211, *Zuckerman & Rubin, Inc.*, v. *I. Samuels et al.* (*Lily Fair Dress Co.*). Judgment dismissing complaint (notice Apr. 28, 1939). Doc. E 86/210, *Zuckerman & Rubin, Inc.*, v. *Beldene Dress Co., Inc.* Judgment for plaintiff (notice Apr. 25, 1939).

Des. 114,414, M. J. Shapiro, Wedding gown, filed Apr. 24, 1939, D. C., S. D. N. Y., Doc. 3/331, *Joy-Time Frocks, Inc.*, v. *Novel Dress Mfg. Co., Inc.*

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,059,840, L. W. Atchison, Refrigerating machine, decided June 20, 1939, claims 1 and 9.

Pat. 2,120,767, F. M. Raver, Refrigeration apparatus, decided June 23, 1939, claim 2.

Pat. 2,137,751, W. A. Davis, Roof hatch, decided June 17, 1939, claims 11 and 12.

Disclaimers

1,983,910.—*Hermann Lummerzheim*, Dessau-Ziebigk, and *Eduard Schnitzler*, Dessau in Anhalt, Germany. INSCRIPTION BEARING FILM AND INK FOR MAKING SAME. Patent dated December 11, 1934. Disclaimer filed June 19, 1939, by the assignee, *Agfa Ansco Corporation.*

Hereby disclaims claims 1 and 7 of said Letters Patent.

2,084,159.—*Albert H. Mittag*, Schenectady, N. Y. ELECTRIC VALVE SYSTEM. Patent dated June 15, 1937. Disclaimer filed June 15, 1939, by the assignee, *General Electric Company.*

Hereby enters this disclaimer to claim 1 of said patent.

2,098,801.—*Henry V. Erben*, Philadelphia, Pa. HIGH VOLTAGE ELECTRIC CIRCUIT INTERRUPTER. Patent dated November 9, 1937. Disclaimer filed June 16, 1939, by the assignee, *General Electric Company.*

Hereby enters this disclaimer to claim 1 in said specification.

Changes in Classification

Order No. 3,479, June 19, 1939, directs:

In *class 41, Ornamentation* (Division 17), abolish the following subclass with its definition:

Surface type

Pigment

31.5 Copying.

The patents formerly contained in this subclass have been placed for the most part in class 101, Printing, subclass 149.5, established in this order.

In *class 41, Ornamentation* (Division 17), change the title of subclass 31.6 to read:

Surface type
Pigment
31.6 Copying surfaces or compositions,

abolish the existing definition and establish in lieu thereof the following:

31.6. Limited to sheets or surfaces or compositions for application thereto particularly adapted for receiving the negative design in copy printing and usually serving as a member from which to print a multiplicity of positive copies.

Note.—For apparatus employing the sheets, surfaces and compositions of this subclass, see class 101, PRINTING, subclass 131 and indented subclasses; for methods of copying, see class 101, subclass 149.5.

In *class 91, Coating* (Division 46), abolish the following subclasses with their definitions:

Combined machines
13.4 Dampening and press copying
13.5 Immersion,
13.6 Roller, tank feed,
13.7 Web dampener.

The patents formerly contained in these subclasses have been placed for the most part in class 101, Printing, subclasses 131–134, and subclasses 131.5, 132.5, and 134.5, established in this order.

In *class 100, Presses* (Division 2), abolish the following subclasses:

Copying
60 Hand impressing,
61 Hand impressing, book flexure,
62 Roller mechanism.

The patents formerly contained in these subclasses have been placed for the most part in class 101, Printing, subclasses 131–134, and subclasses 131.5, 132.5, and 134.5, **established** in this order.

In *class 101, Printing* (Division 17), change the titles of subclasses 132 and 133 to read:

Planographic
Copying apparatus
132 Rotary,
133 Bed-and-cylinder.

In *class 101, Printing* (Division 17), establish the following subclasses and definitions:

Planographic
Copying apparatus
131.5 Sheet flexing,
Rotary
132.5 With dampener,
134.5 Bed-and-platen,
Processes
149.5 Copying.

131.5. Copying apparatus by which the printing surface and the sheet to be printed upon are brought into impression-taking contact by simultaneously flexing the surface and the sheet.

132.5. Rotary copying apparatus employing dampening means.

Search this class, subclasses 131, 133, 134.5, 147, and 148, and class 91, COATING, appropriate subclasses, for dampening structure.

134.5. Opposed members capable of relative movement toward each other to make the impression by a non-rolling contact.

(1) **Search this class,** subclasses 41, 57, and their indented subclasses, 68–70, 78, 93, 163, 193, and 287 and their indented subclasses.

(2) Note.—For details of the mechanism for imparting the movement, search appropriate subclasses in classes 74, MACHINE ELEMENTS AND MECHANISMS, and 100, PRESSES.

149.5. Planographic processes employing a printing surface bearing designs in ink of such a nature as not to require re-inking, but which may require treatment with a solvent to give off the desired impressions.

The patents contained in subclasses 131.5, 132.5, and 134.5 have been taken for the most part from class 91, Coating, subclasses 13.4–13.7, abolished in this order, and those contained in subclass 149.5 have been taken for the most part from class 41, Ornamentation, subclass 31.5, abolished in this order.

In *class 102, Ammunition and Explosive Devices* (Division 22), establish the following subclass and definition:

Blasting
Plugs
11.5 Explosive carrying.

11.5. Plugs and similar devices under subclass 11 which carry all or part of the explosive charge, the force of which they are intended to confine or direct.

Note.—For cartridges carrying the explosive charge for use in blasting, see this class, subclasses 6 and 7.

The patents contained in this subclass have been taken for the most part from class 102, subclasses 5, 6, and 11.

In *class 5, Beds* (Division 8), subclass 345, add the following note:

(3) Note.—See class 9, BOATS AND BUOYS, subclass 13, for bed mattresses adapted for service as life-rafts.

In *class 9, Boats and Buoys* (Division 22), subclass 13, add the following note:

Note.—See class 5, BEDS, subclass 345 and indented subclasses, for other bed-mattresses.

In *class 20, Wooden Buildings* (Division 33), subclass 1.7, cancel the existing note and substitute:

Note.—See class 186, STORE SERVICE, subclass 1, and class 311, SUPPORTS, TABLES, subclass 30 and indented subclasses.

In *class 30, Cutlery* (Division 24), in the main class definition add the following note:

(46*a*) **128**—SURGERY, subclass 305 and indented subclasses;

in subclass 169, number notes (2) and (3) as (*3*) and (*4*) and add:

(2) Note.—Cutting tools with single movable blades, even though called "scrapers", will be found in this class, subclass 272 and indented subclasses;

and in subclass 194 add:

(3) Note.—For shears adapted for use on portions of the human body, see class 128, SURGERY, subclass 318.

In *class 41, Ornamentation* (Division 17), subclass 33, in note (2) cancel "this class, subclass 31.5" and substitute therefor *class 101, Printing, subclass 149.5.*

In *class 44, Fuel and Igniting Devices* (Division 64), subclass 48, number the existing note (*1*) and add:

(2) Note.—For match scratching surfaces combined with tobacco users' appliances, see class 131, TOBACCO, subclasses 185, 234, and 249.

In *class 62, Refrigeration* (Division 44), in the main class definition under "Search classes" in the reference to class 137, Water Distribution, cancel "for apparatus for fluid control and distribution", first occurrence.

In *class 67, Illuminating Burners* (Division 30), subclass 24, number the existing note (*1*) and add:

(2) Note.—For cigar and cigarette extinguishers, see class 131, TOBACCO, subclasses 235–237 and 256.

In *class 74, Machine Elements and Mechanisms* (Division 12), subclass 6, add the following note:

(4) Note.—See class 185, MOTORS, subclasses 6 and 7, 10, 32, and 39 and their indented subclasses, for analogous structures for winding motors of the weight and spring types;

in subclass 10 number the existing note (*2*) and add:

(1) Note.—See class 235, REGISTERS, for related operating mechanism, particularly subclass 12 and indented subclasses;

in subclass 100 number the existing note (*2*) and add:

(1) Note.—Complete the search in class 236, AUTOMATIC TEMPERATURE AND HUMIDITY REGULATION, subclass 48;

and in subclass 148 add the following note:

Note.—See class 188, BRAKES, subclass 81.1, for such devices applied to a brake staff.

In *class 91, Coating* (Divisions 46 and 50), subclass 13, number the existing note (*1*) and add:

(2) Note.—Machines for applying moisture to paper or the like and pressing the moistened paper against a sheet carrying printed or written matter in order to obtain a copy are classified in class 101, PRINTING, subclass 131 and indented subclasses;

in subclass 54.3 add the following note:

Note.—For combinations of copy-pad baths and copy presses, search class 101, PRINTING, subclass 131 and indented subclasses;

in subclass 54.6 add the following note:

Note.—For combined pads and copy press structure, search class 101, PRINTING, subclass 131 and indented subclasses;

and in subclass 68 add the following note:

(3) Note.—For processes of copy-printing involving the application of moisture to a sheet or web of paper or the like, search class 101, PRINTING, subclass 149.5.

In *class 101, Printing* (Division 17), in the main class definition change the period to a comma and add:

or by impression from planographic or intaglio surfaces;

in subclass 41 in the note change the period to a comma and add:

and subclasses 57 and indented subclasses, 68–70, 78, 93 and their indented subclasses, 134.5, and 163, 193, and 287 and their indented subclasses;

in subclasses 57, 68, 78, 163, and 193 add to each the following note:

Note.—See the search note appended to subclass 41 of this class;

in subclass 93 number the existing note (*1*) and add:

(2) Note.—See the search note appended to subclass 41 of this class;

in subclass 130 in the definition cancel "repeated"; in subclass 131, in the last line of the definition change "between" to read *to give off*, and in the note cancel "subclasses 31.5 and" and substitute *subclass*; and in subclass 287 in the note insert *134.5*, before "163".

In *class 102, Ammunition and Explosive Devices* (Division 22), subclasses 6 and 7, number the existing note (*1*) and add:

(2) **Search this class,** subclass 11.5.

In *class 120, Stationery* (Division 53), subclass 116, add at the end of the definition:

This subclass also includes sealing wax melters, including sealing wax in candle form.

In *class 128, Surgery* (Division 55), subclass 305, change note (2) to read:

(2) **Search Class—**
30—CUTLERY, appropriate subclasses, for cutting implements adapted for deborning animals but of more general utility, for cutting structure associated with surgery, such as plastic casts and external stitches, but not a part of the body, and mere knives although called surgical knives;

in subclass 317 add the following note:

Note.—For saws adapted for surgical use on the body but of more general utility, or for cutting plaster casts, see class 30, CUTLERY, subclasses 166 and 167;

and in subclass 318 add the following note:

Note.—For shears adapted for surgical use but of more general utility, see class 30, CUTLERY, subclass 194 and indented subclasses.

In *class 164, Cutting and Punching Sheets and Bars* (Division 57), subclass 0.2, number note (4) as (*5*) and add:

(4) Note.—Where the perforation is performed by other than a piercing or cutting operation, e. g., by melting, the patent will be found in class 166, WELLS, subclass 1, where not elsewhere provided for.

In *class 166, Wells* (Division 38), subclass 1, add the following note:

Note.—This class is the broad place for the making of holes in well tubing in situ. Where the hole is made by a piercing or cutting operation, see class 164, CUTTING AND PUNCHING SHEETS AND BARS, subclass 0.2 and indented subclasses.

In *class 187, Elevators* (Division 4), in the main class definition add the following note:

Search Class—
259—AGITATING, subclass 160, for mortar mixer elevating means;

and in subclass 9 in note (2) cancel the reference to class 83, Mills.

In *class 192, Clutches and Power Stop Control* (Division 12), subclass 125, under "Search classes" add:

198—CONVEYORS, POWER DRIVEN, subclass 37.

In *class 214, Material or Article Handling* (Division 4), subclass 130, add the following note:

(5) Note.—See class 259, AGITATING, subclasses 166 and 167, for vertically swinging loaders combined with mortar mixers.

In *class 215, Bottles and Jars* (Division 58), subclass **56, add the following notes:**

(1) Note.—See this class, subclass 79.

(2) **Search Class—**
220—METALLIC RECEPTACLES, subclass 44.

In *class 216, Label Pasting and Paper Hanging* (Division 53), subclass 43, in note (2) in the reference to class 91, Coating, cancel "13.4 and indented subclasses" and in the reference to class 101, Printing, add *subclass 131 and indented subclasses.*

In *class 220, Metallic Receptacles* (Division 40), subclass 44, add the following note:

(3) **Search Classes—**
48—GAS, HEATING AND ILLUMINATING, subclass 176.
98—VENTILATION, subclass 87.
215—BOTTLES AND JARS, subclasses 56 and 79.

In *class 227, Fire Escapes* (Division 4), subclass 29, add the following note:

(3) Note.—See class 304, SCAFFOLDS, subclass 29 and indented subclasses, for similar structures.

In *class 235, Registers* (Division 41), subclass 131, add the following note:

Note.—See class 74, MACHINE ELEMENTS AND MECHANISMS, subclass 148 and indented subclasses, particularly subclass 152.

In *class 236, Automatic Temperature and Humidity Regulation* (Division 30), subclass 48, number the existing note (*1*) and add:

(2) Note.—See class 74, MACHINE ELEMENTS AND MECHANISMS, subclass 100, for snap action devices associated with mechanism for converting reciprocating motion to or from oscillating motion.

In *class 248, Supports* (Division 52), subclass 38, number notes (2) and (3) as (*3*) and (*4*) and add:

(2) Note.—See class 67, ILLUMINATING BURNERS, subclass 23 and indented subclasses, for candlesticks.

In *class 250, Radiant Energy* (Division 54), subclass 42, number note (6) as (7) and add:

(6) Note.—For color fade testing involving the use of radiant energy rays, see class 73, MEASURING AND TESTING, subclass 51.

In *class 271, Sheet or Web Feeding or Delivering* (Division 17), subclass 2.6, under "Search classes" add:

242—WINDING AND REELING, subclass 76.

In *class 285, Pipe Joints or Couplings* (Division 52), subclasses 105 and 121 in note (1) of each change "97" to read *96.1 and indented subclasses*; in subclass 211 cancel the reference to subclass 97; and in subclass 212 change "97" to read *96.1 and indented subclasses.*

In *class 294, Handling, Hand and Hoist Line Implements* (Division 4), subclass 19, in note (1) add:

131—TOBACCO, subclass 259.

In *class 304, Scaffolds* (Division 4), subclass 29, number the existing note (*1*) and add:

(2) Note.—See class 227, FIRE ESCAPES, subclass 29 and indented subclasses, for similar structures.

Changes in Classification

Order No. 3,480, June 21, 1939, directs:

In *class 84, Music* (Division 5), abolish the following subclasses with their definitions:

Instruments
Stringed
Pianos
259 Electromagnetic actions
260 With interrupter.
261 With microphone
262 Phase control.

The patents formerly contained in these subclasses have been placed for the most part in class 84, subclasses 1.01 to 1.28, established in this order.

In *class 84, Music* (Division 5), establish the following subclasses and definitions:

Instruments
1.01 Electrical tone generation and music instruments with electric translating devices
1.02 Combined with phonograph,
1.03 Automatic,
1.04 With tuned sound wave generator or resonator
1.05 Regenerative type,

Instruments—Continued

Electrical tone generation and music instruments with electric translating devices
Combined with phonograph,
Automatic,
With tuned sound wave generator or resonator
1.06 Tuned reproducer or resonator
1.07 Multiple current actuation
1.08 With selecting switch,
1.09 With volume control
1.10 Combined with tone actuator,
1.11 With selective control of tone partials
1.12 Tone partial intensity control,
1.13 With selective control of rate of attack or damping,
1.14 Electric coupling
1.15 Electromagnetic,
1.16 Stringed instruments,
1.17 With plural manuals,
1.18 Electro-optical type,
1.19 With selective control of tone partials
1.20 Wave interference type,
1.21 Tone partial intensity control,
1.22 Additive type
1.23 With harmonic used as fundamental,
1.24 With expression device
1.25 Tremolo or vibrato effect,
1.26 Control of rate of attack or damping,
1.27 Volume control,
1.28 With pattern or sound record type wave generator.

1.01. Apparatus under the class definition for generating and/or modifying electric currents or potentials to produce varying electric currents or potentials in combination with, or intended for use with, means for converting the varying electric currents or potentials into sound vibrations for the production of musical tones.

(1) Note.—Musical instruments wherein the sound producing means are actuated by pneumatic means, as in wind instruments, or by mechanical means, as picking devices, or bowing devices or hammer actions, and the motive power for actuating the pneumatic means or the mechanical device is either supplied by an electric motor or is controlled by electrical means, are not classified in this subclass or indented subclasses, but are in the appropriate subclasses entitled "electric" below.

(2) Note.—Apparatus for generating electrical currents and potentials, and electrical systems and apparatus for modifying electric currents and potentials to produce electric currents or potentials of particular wave forms, other than music instruments combined with means for converting the vibrations of the instrument into variable electric currents or potentials, are not included in this subclass or the indented subclasses.

The expression "means for converting the vibrations of the instrument into variable electric currents or potentials" as used in this note and in the definitions of the subclasses indented under this subclass includes all means for generating and/or modifying an electric current or potential in response to the vibrations of the instrument whether such means are actually electric generators or are only current regulating devices, such as resistance microphones.

(3) Note.—For instruments for converting variable electric currents into sound vibrations, see class 177, ELECTRIC SIGNALING, subclass 7 and indented subclass, and class 179, TELEPHONY, subclass 101 and indented subclasses.

(4) Note.—For generators of electric currents and potentials, and apparatus for modifying electric currents and potentials to produce electric currents and potentials of particular wave form, search classes:

171—ELECTRICITY, GENERATION, appropriate subclasses, for miscellaneous generators of electric currents and potentials.

172—ELECTRICITY, MOTIVE POWER, subclass 281, for frequency changers, and subclass 238, for phase modification.

175—ELECTRICITY, GENERAL APPLICATIONS, subclass 363 and indented subclasses, for rectifying systems, and subclass 373, for circuit interruption systems.

250—RADIANT ENERGY, subclass 27, for miscellaneous electric systems controlled by electric discharge devices, and subclass 36 and indented subclasses, for oscillation circuits.

1.02. Apparatus under subclass 1.01 having combined therewith a phonograph.

(1) Note.—See this class, subclasses 4 and 5, for automatic instruments combined with phonographs.

(2) Note.—See classes 179, TELEPHONY, subclass 100.1 and indented subclasses, and 274, SOUND RECORDING AND REPRODUCING, appropriate subclasses, for phonographs.

1.03. Apparatus under subclass 1.01 provided with means to determine the succession of tones to be sounded, such as a pattern sheet or disk actuating a suitable note selector mechanism.

Note.—For other automatic music instruments, see the subclasses under the title "Instruments, automatic" in this class.

1.04. Apparatus under subclass 1.01 having a sound wave generator which is tuned to a particular pitch, or an acoustic resonator designed to respond to vibrations of a particular frequency.

(1) Note.—The vibrations of the tuned sound wave generator may be used only to produce electrical currents or potentials of a particular wave form.

(2) Note.—For electrical signaling systems in which vibrating means, such as reeds, tuning forks and diaphragms, are utilized in transmitting and/or receiving messages or signals, see classes 177, ELECTRIC SIGNALING, appropriate subclasses, especially subclass 341; 178, TELEGRAPHY, subclasses 47 and 48; and 179, TELEPHONY, appropriate subclasses, especially subclass 87.

(3) Note.—For instruments for transforming the sound vibrations of speech into variable electric currents or potentials, see class 179, TELEPHONY, subclasses 101 and 121 and their indented subclasses.

(4) Note.—For apparatus of general application for converting mechanical motion to electric currents or potentials, see class 171, ELECTRICITY, GENERATION, appropriate subclasses.

(5) Note.—For periodic electric switches actuated by vibrating means, such as reeds or tuning forks, see class 200, ELECTRICITY, CIRCUIT MAKERS AND BREAKERS, subclass 19 and indented subclasses.

1.05. Apparatus under subclass 1.04 wherein the vibrations generated by the tuned sound wave generator are converted into varying electric currents or potentials, and the varying electric currents or potentials are utilized to actuate the tuned sound wave generator to produce further vibrations of the same and/or diverse character as the original vibrations.

1.06. Apparatus under subclass 1.04 wherein the means for converting the varying electric currents or potentials into sound waves includes (1) a device having a vibrating element tuned to a particular pitch, as a piano string, or (2) a resonator designed to respond to vibrations of a particular frequency.

(1) Note.—Continue the search in subclass 1.05 of this class.

(2) Note.—For other musical instruments combined with resonators, see appropriate subclasses in this class, especially subclasses 187, 189 and indented subclasses, 270 and indented subclasses, 294 and indented subclasses, 362, and 410.

(3) Note.—For vibrating diaphragms in combination with resonators, see class 181, ACOUSTICS, subclass 31, except when the diaphragm is actuated by means responsive to varying electric currents or potentials corresponding to speech, for which see class 179, TELEPHONY, subclass 109.

1.07. Apparatus under subclass 1.06 wherein the reproducer is actuated by the current or potential in two or more circuits, at least one of the currents or potentials being a varying current or potential.

Note.—The circuits may be connected to the reproducer either simultaneously or separately.

1.08. Apparatus under subclass 1.07 provided with circuit selecting means so that the tuned reproducer may be selectively actuated by currents or potentials in different circuits.

Note.—The current or potential in each of the circuits may be of the same wave form as that in the other but applied to the reproducer at different times or in different manners.

1.09. Apparatus under subclass 1.06 provided with means under the control of the player for selectively varying the electrical currents or potentials to produce a variation in volume of the musical tones.

(1) Note.—Compare with subclass 1.27 of this class.

(2) Note.—For other music instruments provided with means for controlling the volume of the sounds, see appropriate subclasses in this class, especially subclasses 21, 22, 23, 33 and indented subclasses, 182, 219 and indented subclasses, 310, 311, 346, 347, 372, 400, 439, and 440.

(3) Note.—For miscellaneous regulators for electric currents and voltages, see class 171, ELECTRICITY, GENERATION, appropriate subclasses under "Regulators".

1.10. Apparatus under subclass 1.09 wherein the means for actuating the volume control is combined with the control means for the tone producing means so that the relative volume of each tone produced may be individually adjusted by the player.

Note.—Compare with subclasses 1.13, 1.26, 439, and 440 of this class.

1.11. Apparatus under subclass 1.04 provided with means under the control of the player for selecting the number of tone partials and/or the amplitude of one or more of the tone partials that each tone shall possess to thereby regulate the timbre of the tone.

(1) Note.—Compare with subclass 1.19 of this class.

(2) Note.—For other music instruments provided with tone partial control means, see the appropriate subclasses in this class, especially subclasses 85, 234, 331–334, 343 and indented subclasses, and 369 and indented subclasses.

(3) Note.—For miscellaneous systems of electrical distribution, see class 171, ELECTRICITY, GENERATION, subclass 97.

(4) Note.—For frequency changers of general application, see class 172, ELECTRICITY, MOTIVE POWER, subclass 281.

1.12. Apparatus under subclass 1.11 having means under the control of the player for selectively controlling the amplitude of one or more of the tone partials.

Note.—Compare with subclasses 1.09, 1.10, 1.21, 1.26, and 1.27 of this class.

1.13. Apparatus under subclass 1.04 provided with means under the control of the player to vary the electric currents or potentials so as to regulate the rate at which one or more of the tone partials build up to their full volume or the rate at which they are damped.

(1) Note.—Continue the search in subclasses 1.05 and 1.10 of this class.

(2) Note.—Patents claiming the selective control of the tone partials so as to permit the selective addition of rapidly attacking and/or highly damped waves to the tone producing waves so as to simulate a percussively struck tuned vibrator, as a bell or piano string, are classified in this class, subclasses 1.11 and 1.12, and cross-referenced to this subclass.

(3) Note.—Compare with subclass 1.26 of this class.

1.14. Apparatus under subclass 1.04 wherein the vibrating part of the instrument forms, or has mounted upon it, a part of the electrical means for transforming the vibrations into variable electric currents or potentials. For example, a reed or string may form one electrode of a condenser or the armature of an electromagnetic reproducer.

1.15. Apparatus under subclass 1.14 wherein the means for transforming the vibrations of the instrument into varying electrical currents or potentials is an electromagnetic induction device in which the vibrating part varies the magnetic flux between the armature and field coil of the electromagnetic device.

(1) Note.—For apparatus of general application for converting mechanical motion to electrical current by means of electromagnetic induction, see class 171, ELECTRICITY, GENERATION, appropriate subclasses under "Magneto-electric".

(2) Note.—For electromagnetic induction devices for transforming sound vibrations into variable electric currents or potentials, see class 179, TELEPHONY, subclass 101 and indented subclasses, especially subclasses 104, 113, and 114 and indented subclasses.

1.16. Apparatus under subclass 1.04 wherein the instrument is a stringed instrument.

(1) Note.—Continue the search in subclasses 1.05, 1.06 and indented subclasses, 1.12, 1.14, and 1.15 of this class.

(2) Note.—For miscellaneous stringed music instruments, see this class, subclasses 7 and indented subclasses, 172 and 173 and indented subclasses.

1.17. Apparatus under subclass 1.01 provided with a plurality of keyboards or other means controlling the tone producing mechanism, each keyboard or set of control means controlling a register of tones which are of a different characteristic from that controlled by the other keyboards or sets of control means; but which are of the same pitch as those controlled by such other keyboards or sets of control means.

(1) Note.—For stringed instruments under the definition of subclass 1.01 wherein different strings may be used to produce tones with different characteristics, but of the same pitch, search subclass 1.16 of this class.

(2) Note.—Compare with subclasses 175, 381, and 424 of this class.

1.18. Apparatus under subclass 1.01 provided with optical and electrical means for controlling the characteristics of the variable currents and potentials.

(1) Note.—The term "optical" as used in connection with this subclass includes wave energy both within and without the visible spectrum.

(2) Note.—For miscellaneous electrical circuits for light sensitive devices, see class 250, RADIANT ENERGY, subclass 41.5.

1.19. Apparatus under subclass 1.01 provided with means under the control of the player for selecting the number of tone partials and/or the amplitude of one or more of the tone partials that each tone shall possess to thereby regulate the timbre of the tone.

Note.—Continue the search in subclass 1.11 of this class.

1.20. Apparatus under subclass 1.19 wherein the control of tone partials is procured by adding together two or more electric currents or potentials possessing diverse wave shapes and adjusting the phase between the currents or potentials so that the resultant current or potential possesses the desired number of partials and/or the desired relative amplitude of the partials.

Note.—For electrical apparatus of general application for phase regulation, see class 172, ELECTRICITY, MOTIVE POWER, subclass 246.

1.21. Apparatus under subclass 1.19 having means under the control of the player for selectively controlling the amplitude of one or more of the tone partials.

(1) Note.—Continue the search in subclass 1.12 of this class.

(2) Note.—Compare with subclasses 1.09, 1.10, 1.26, and 1.27 of this class.

1.22. Apparatus under subclass 1.19 provided with at least two circuits for each tone, each of the circuits being provided with means to generate only a part of the electric currents or potentials which are to be converted into sound, the sum of all the currents and potentials in all of such circuits being equal to the required tone generating current or potential.

(1) Note.—The currents in the several circuits may be added together to produce in a common circuit the resultant tone generating current or potential, or there may be separate means for converting the current and potential in each circuit to sound, the desired tone being secured by the result of adding sound waves together.

(2) Note.—Continue the search in subclasses 1.20 and 1.21 of this class.

1.23. Apparatus under subclass 1.22 wherein one of the circuits generates an electric current or potential which is in harmonic relation with the current or potential generated in another circuit, and means are provided so that the current or potential corresponding to the harmonic may be selectively added to the other current and potential to thereby produce a harmonic in the resultant tone, and may be used as the fundamental of a tone an octave higher in pitch than such first-mentioned tone.

1.24. Apparatus under subclass 1.01 provided with means controlled by the player to modify the currents or potentials to give "expression" to the music.

Note.—For other music instruments with expression devices, see appropriate subclasses in this class, especially subclasses 33 and indented subclasses, 157, 164, 216 and indented subclasses, 313, and 374.

1.25. Apparatus under subclass 1.24 wherein a "tremolo" or "vibrato" effect may be imparted to the music.

Note.—For other music instruments with "tremolo" or "vibrato" devices, see this class, subclasses 313, 348, and 374.

1.26. Apparatus under subclass 1.24 wherein the rate at which one or more of the tone partials build up to their full volume or the rate at which they are damped may be regulated.

(1) Note.—Continue the search in subclass 1.13 of this class.

(2) Note.—Patents claiming the selective control of the tone partials so as to permit the selective addition of rapidly attacking and/or highly damped waves to the tone producing waves so as to simulate a percussively struck tuned vibrator as a bell or piano string, are classified in the appropriate subclass above, and cross-referenced to this subclass.

(3) Note.—Patents having the volume control means combined with the note actuating means so that the player may regulate the rate at which each tone builds up to its full volume and/or the rate at which it decreases its volume are within the definition of this subclass.

1.27. Apparatus under subclass 1.24 wherein the volume of the musical tones may be regulated.

(1) Note.—Continue the search in subclasses 1.09 and 1.26 of this class.

(2) Note.—Compare with subclasses 1.12 and 1.21 of this class.

1.28. Apparatus under subclass 1.01 wherein the means for modifying or generating the electrical currents or potentials is, (1) a pattern shaped to simulate the wave form of the musical note to be produced, or (2) is a recording of the musical note.

(1) Note.—Continue the search in subclass 1.18 of this class.

(2) Note.—For apparatus and methods for reproducing by means of sound records, the sounds which produced the sound records, and methods and apparatus for producing sound records, see class 179, TELEPHONY, subclass 100.1 and indented subclasses, and class 274, SOUND RECORDING AND REPRODUCING, appropriate subclasses.

The patents contained in these subclasses have been taken for the most part from class 84, subclass 1, and from subclasses 259–262, abolished in this order.

In *class 84, Music* (Division 5), abolish the existing class definition and substitute therefor the following, retaining the existing notes:

This class includes the instruments used in producing music and includes (1) electrical music instruments, (2) automatic instruments, and (3) those hand played. The automatic instruments and the hand played instruments have a parallel classification so far as seems practical, and in both the patents are divided in the usual way into four groups, stringed, wind, rigid vibrators, and membranes. Then follow details or features common to groups (1), (2), and (3). This class also includes some accessory devices generally recognized as belonging to the art or industry;

cancel the existing definition of subclass 1 and substitute therefor the following:

1. Patents under the class definition not classified in any of the subclasses below;

in the definition of the title "Instruments, automatic", number the existing note (2) and add:

(1) Note.—For automatic musical instruments wherein varying electrical currents or potentials are converted into sound vibrations for the production of music, search this class, subclass 1.03;

in subclass 4 number the existing note (2) and add:

(1) Note.—Continue the search in subclass 1.02 of this class;

in subclass 173 add the following note:

Note.—Continue the search in subclass 1.16 of this class;

in subclass 245 add the following note:

Note.—Continue the search in subclasses 1.05 and 1.06 and indented subclasses of this class;

in subclass 341 cancel note (2) and substitute:

(2) Note.—See this class, subclasses 1.08, 235, 337, and 338;

and in subclass 424 add the following note:

Note.—Continue the search in subclass 1.17 of this class.

In *class 178, Telegraphy* (Division 16), subclass 47, in note (2), add:

84—MUSIC, subclass 1.04 and indented subclasses, for electric music instruments provided with a tuned sound wave generator, which may be used to produce electric currents or potentials of a particular wave form.

In *class 179, Telephony* (Division 16), subclass 87, number the existing note (1) and add:

(2) Note.—For electric music instruments provided with a tuned sound wave generator, which may be used to produce electric currents or potentials of a particular wave form, see class 84, MUSIC, subclass 1.04 and indented subclasses;

in subclass 100.1 number existing note (2) as (4) and add:

(2) Note.—For electric music instruments having combined therewith a phonograph, see class 84, MUSIC, subclass 1.02.

(3) Note.—For electric music instruments using sound recordings for controlling the production of the varying electric current or potential which is to be converted into music, see class 84, MUSIC, subclass 1.28;

in subclass 100.3, add to the note:

84—MUSIC, subclass 1.18, for music instruments using photographic sound records;

in subclass 101 number the existing note (2) and add:

(1) Note.—For electric music instruments with means to convert varying electric currents or potentials into sound vibrations for the production of music, and for music instruments with means to convert the vibrations of the instrument into varying electric currents or potentials, see class 84, MUSIC, subclass 1.01 and indented subclasses;

in subclass 109 add the following note:

Search Class—

181—ACOUSTICS, subclass 31, for diaphragms in combination with their mountings, in which combinations the diaphragm or the mounting may include a resonator designed to reinforce or intensify the sound vibrations;

and in subclass 114 add the following note:

Note.—For music instruments in combination with electromagnetic means to convert the vibrations of the instrument into varying electric currents or potentials, see class 84, MUSIC, subclass 1.01 and indented subclasses, especially subclass 1.15.

In *class 181, Acoustics* (Division 5), subclass 31, add the following note:

Search Class—

179—TELEPHONY, subclasses 108 and 109, for instruments designed to transform variable electrical current or potential into sound in combination with means to intensify the sound by mechanical means. Note especially subclass 109 for such combinations having sound resonators as the intensifying means.

In *class 250, Radiant Energy* (Division 54), subclass 41.5, number the existing note (1) and add:

(2) Note.—For electric music instruments having electrical circuits controlled by light sensitive devices, see class 84, MUSIC, subclass 1.18.

In *class 274, Sound Recording and Reproducing* (Division 5), in the main class definition in note (2) change the reference to class 84, Music, to read:

with musical instruments, in class 84, MUSIC, subclasses 1.02, 4, 5, and 100;

and add the following note:

(4) Note.—For music instruments using sound recordings to control the production of the varying electric currents or potentials which are to be converted into music, see class 84, MUSIC, subclass 1.28.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 11, 1939

[VOL. 504. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 416,361. ATLANTIC SPONGE & CHAMOIS CORPORATION, New York, N. Y. Filed Feb. 24, 1939.

ATLANTIC



For Sponges and Chamois Skins.
Claims use since Feb. 1, 1939.

Ser. No. 416,416. JACOB SAMUEL GOLDHABER, Girdletree, Md. Filed Feb. 25, 1939.

GOLD BAND

For Natural Flowers and Plants.
Claims use since Mar. 26, 1935.

Ser. No. 419,071. BROWN CORPORATION, Quebec, Quebec, Canada. Filed May 4, 1939.

WHITE HUSKY

The word "White" is disclaimed apart from the mark.
For Bleached or White Wood Pulps.
Claims use since Mar. 22, 1939.

Ser. No. 419,702. F. H. WOODRUFF & SONS, INC., Milford, Conn. Filed May 22, 1939.

No. One-Seventy

For Lawn Seed Mixtures.
Claims use since February, 1937.

Ser. No. 419,706. F. H. WOODRUFF & SONS., INC., Milford, Conn. Filed May 22, 1939.

WOODCO

For Lawn Seed.
Claims use since January, 1932.

CLASS 2

Receptacles

Ser. No. 408,001. EDWIN R. BARNEY, East Cambridge, Mass. Filed June 29, 1938.

Snac-Pac

The word "Pac" is disclaimed apart from the mark.
For Paper and Pasteboard Boxes and Dishes for Holding Foods, and for Paper and Pasteboard Holders for Paper Cups.
Claims use since June 8, 1938.

Ser. No. 416,439. RUBATEX DISTRIBUTORS, INC., Ridgefield, Conn. Filed Feb. 25, 1939.

RUBATEX

FRIGIDETTE

For Heat Resistant Containers Made from Expanded Rubber and Used for Ice and Food Preservation.
Claims use since Feb. 18, 1939.

Ser. No. 418,583. LILY-TULIP CUP CORPORATION, New York, N. Y. Filed Apr. 22, 1939.

HOBBY

For Paper Cups and Paper Covers or Lids for Paper Cups or Similar Receptacles.
Claims use since Jan. 3, 1939.

Ser. No. 418,773. FLOWER CITY SPECIALTY COMPANY, Rochester, N. Y. Filed Apr. 27, 1939.

LOOKIT

For Boxes for Packing Various Articles of Merchandise Made Principally of Paper, Cardboard, and Transparent Sheeting, and Sold Empty.
Claims use since July, 1938.

Ser. No. 419,651. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed May 22, 1939.

TRIOTEX

For Bags Made from Laminated Material Composed of Layers of Textile and Paper.
Claims use since May 2, 1939.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 404,207. LOUIS FISHMAN, doing business as Blue Ribbon Steel Wool Company, Brooklyn, N. Y. Filed Mar. 18, 1938.

RAYTEX

For Steel Wool.
Claims use since July 1, 1937.

Ser. No. 416,558. GRANITIZE LABORATORIES, Burlingame, Calif. Filed Mar. 1, 1939.

GRANITIZE SOLUTION

No claim is made to the word "Solution" apart from the mark.
For Cleaner for Automobile Bodies Having Incidental Polishing Properties.
Claims use since Mar. 15, 1938.

Ser. No. 417,427. THODENOL SOAP CORP., New York, N. Y. Filed Mar. 18, 1939.

Eclar

For Cleansing Preparation, Preferably in Liquid Form, and for Use Particularly for the Care, Cleaning, and Aiding in the Preservation of Rubber Floors and Mats, Asphalt Tiles, and the Like.
Claims use since Feb. 6, 1939.

Ser. No. 417,428. THODENOL SOAP CORP., New York, N. Y. Filed Mar. 25, 1939.

T.L.S.

For Cleansing Preparation, Preferably in Liquid Form, and for Use Particularly for the Care, Cleaning, and Aiding in the Preservation of Rubber Floors and Mats, Asphalt Tiles, and the Like.
Claims use since Feb. 6, 1939.

Ser. No. 417,429. THODENOL SOAP CORP., New York, N. Y. Filed Mar. 25, 1939.

THODENOL

For Cleansing Preparation, Preferably in Liquid Form, and for Use Particularly for the Care, Cleaning, and Aiding in the Preservation of Rubber Floors and Mats, Asphalt Tiles, and the Like.
Claims use since Feb. 6, 1939.

Ser. No. 417,900. AR. WINARICK, INC., New York, N. Y. Filed Apr. 5, 1939.

Jeris
(HOMOGENIZED)

Applicant disclaims the word "Homogenized" apart from the mark.
For Shaving Cream.
Claims use since Mar. 3. 1939.

Ser. No. 418,601. F. REINITZ & CO. INC., New York and Long Island City, N. Y. Filed Apr. 22, 1939.

FRACONE

For Soaps.
Claims use since Mar. 9, 1939.

Ser. No. 418,770. CHARLES DERBY, doing business as Universal Utility Company, Gloversville, N. Y. Filed Apr. 27, 1939.



Applicant disclaims the words "Trade Mark" apart from the mark. The representation of the girl is fanciful.
For Preparation for Cleaning and Polishing Glass and the Like.
Claims use since Apr. 14, 1939.

Ser. No. 419,218. BLOOMINGDALE BROS., INC., New York, N. Y. Filed May 9, 1939.

Garden Herb Shop

For Soaps.
Claims use since Mar. 16, 1939.

Ser. No. 419,288. ARMOUR AND COMPANY OF DELAWARE, Chicago, Ill. Filed May 11, 1939.

PERK

For Granulated Soap.
Claims use since Apr. 18, 1939.

Ser. No. 419,294. THE CURRAN CORPORATION, Malden, Mass. Filed May 11, 1939.

HYDRALENE

For Solvent Cleaner and Degreasing Compound, Sold in Concentrated Form.
Claims use since 1933.

Ser. No. 419,349. THE SHEFFIELD COMPANY, New London, Conn. Filed May 12, 1939.

Elltee

For Shaving Cream.
Claims use since Nov. 7, 1936.

CLASS 5

Adhesives

Ser. No. 418,373. STEIN, HALL MANUFACTURING COMPANY, Chicago, Ill. Filed Apr. 17, 1939.

TENACE

For Adhesives Sold in the Form of Adhesive Compositions for Use in Making Gummed Tape, Gummed Paper and for Other Remoistening Adhesive Purposes.
Claims use since October, 1938.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 404,322. OESTERREICHISCHE HEILMITTELSTELLE GESELLSCHAFT M. B. H., Vienna, Austria. Filed Mar. 21, 1938.

CAUSYTH

For Disinfectants and Analgesic and Antipyretic Preparations for Treatment of Infections, Rheumatism, Sciatica, Lumbago, Muscular Rheumatism, Headache, Migraine, Neuralgia, Influenza, Grippe, Painful Menstruation, Neuritis and Measles.
Claims use since December, 1926.

Ser. No. 407,314. MAHALA A. HANNAH, doing business as Shed Mfg. Co., Tulsa, Okla. Filed June 10, 1938.

"SHED"

For Preparation Used in the Treatment of Corns, Athletes Foot, and Similar Skin Affections, and for General Skin Treatment and Skin Tonic and Cosmetic for the Skin.
Claims use since January, 1937.

Ser. No. 408,946. HENRY GRANT, Latrobe, Pa. Filed July 27, 1938.

Meta

For Cosmetics and Particularly for Nail Polishes, Creme Polish, Cold Cream, Tissue Cream, Foundation Cream, Cleansing Cream, and Perfumes.
Claims use since September, 1937.

Ser. No. 411,289. AMERICAN BEAUTY PRODUCTS CO., Chicago, Ill. Filed Oct. 5, 1938.

NATURELLE

For Shampoo Oils.
Claims use since May, 1937.

Ser. No. 415,230. ADOLPH I. SCHWARTZ, doing business as Flodas Chemical Lab., New York, N. Y. Filed Jan. 25, 1939.

FLODAS
EAR
DROPS
FLODAS
CHEMICAL LAB.
NEW YORK

The words "Ear Drops" and "New York" and outline of the label are disclaimed from the mark.
For Chemicals, Medicines, and Pharmaceutical Preparations to be Used for Pains, Inflammation, and Itching of the Ears.
Claims use since July 1, 1938.

Ser. No. 415,291. NOAH HILL, Clinton, Iowa. Filed Jan. 27, 1939.

A & E
Stone



Over Night

No claim is made to the words "Over Night" and "Stone" apart from the mark.
For Salve for Use in the Treatment of Snake Bites, Cuts, Burns, Infected Sores, Poison Ivy, Skin Eruptions, and Colds in the Chest and Throat.
Claims use since Apr. 1, 1938.

Ser. No. 415,854. MORTON G. NEUMANN, doing business as Famous Products Co., Chicago, Ill. Filed Feb. 9, 1939.



The picture is fanciful.
Face Powder, Liquid and Solid Incense, Talcum Powder, Rouge, Lip Stick, Eyebrow Pencils, Cold Cream, Vanishing Cream, Massage Cream, Lemon Cleansing Cream, Face-Bleach Cream, Toilet Water, Perfume, Face Lotion, Hair Pomade, Hair Tonic, Bay Rum, Glycerin and Rose Water, Cream of Lemon and Witchhazel, Tooth Paste, Mouth Wash, Liniment for the Treatment of Rheumatism, Lumbago, Swollen Joints, Neuralgia, Sprains, Bruises, and the Like, Mineral Oil Laxative, Cough Syrup, Cold Tablets, Headache Tablets, Cathartic Tablets, Aspirin, Iron and Quinine Tonic, Camphorated Oil, Milk of Magnesia, Laxative Tea, Tissue Cream, Cleansing Cream, Skin Brightener, Liquid Cleansing Cream, Liquid Face Powder, Lemon Face and Hand Lotion, Honey and Almond Lotion, Cucumber Lotion, Brilliantine, Pressing Oil, Temple Oil, Hair Oil, Skin Ointment, and Skin Salve, Bath Salts, Sachet Powder, After Shaving Lotion, Herb Tea, (Iron, Wine, and Quinide Tonic) Toothache Drops, Corn Remover Preparation, Laxative Chewing Gum, Buchu Compound Tablets, Haarlem Oil Liquid, Foot Powder, Foot Balm, Perfume Oil, Deodorant Ointment, Deodorant Liquid, Deodorant, Powder, Hair Dye, Hair Remover, Diuretic Tablets, Rubbing Alcohol, Mentholated Ointment, Antiacid Powder, Sodium Tablets, Alkaline Tablets, Effervescent Salts, Laxative Tonic, Laxative Pills, Iron and Yeast Tablets, Vitamin Capsules, Iron Tonic Tablets.
Claims use since Dec. 27, 1937.

Ser. No. 415,855. MORTON G. NEUMANN, doing business as Famous Products Co., Chicago, Ill. Filed Feb. 9, 1939.

HOLD YOUR MAN

For Vanishing Cream, Lemon Cleansing Cream, Skin Bleach Cream, Rolling Massage Cream, Cold Cream, Skin Brightener, Night Cream, Pink Vanishing Cream, Brown Vanishing Cream, Liquid Cleansing Cream, Face Powder, Liquid Face Powder, Face and Hand Lotions, Lemon Lotions, Deodorant Paste, Deodorant Liquid, Deodorant Powder, Hair Dressing Pomade, Scalp Ointment, Solid Brilliantine, Liquid Brilliantine, Shampoo, Hair Tonic, Pressing Oil, Temple Oil, Hair Dressing, Hair Slicker Oil, Hair Dye, Perfume, Skin Ointment, Skin Bleach Cream, Body Powder, Bath Salts, Bath Oil, Beauty Clay, Nail Polish, Rouge, Lipstick, Eyebrow Pencil, Toilet Water, Liquid Perfume, Solid Perfume, Sachet Powder, Perfume Crystals, Tooth Paste, Mouth Wash, Hand Cream, and Liquid and Solid Incense.
Claims use since Nov. 2, 1937.

Ser. No. 415,856. MORTON G. NEUMANN, doing business as Famous Products Co., Chicago, Ill. Filed Feb. 9, 1939.



For Vanishing Cream, Lemon Cleansing Cream, Skin Bleach Cream, Rolling Massage Cream, Cold Cream, Skin Brightener, Night Cream, Pink Vanishing Cream, Brown Vanishing Cream, Liquid Cleansing Cream, Face Powder, Liquid Face Powder, Face and Hand Lotions, Lemon Lotions, Deodorant Paste, Deodorant Liquid, Deodorant Powder, Hair Dressing Pomade, Scalp Ointment, Solid Brilliantine, Liquid Brilliantine, Shampoo, Hair Tonic, Pressing Oil, Temple Oil, Hair Dressing, Hair Slicker Oil, Hair Dye, Perfume, Skin Ointment, Skin Bleach Cream, Body Powder, Bath Salts, Bath Oil, Beauty Clay, Nail Polish, Rouge, Lipstick, Eyebrow Pencil, Toilet Water, Liquid Perfume, Solid Perfume, Sachet Powder, Perfume Crystals, Tooth Paste, Mouth Wash, Hand Cream, and Liquid and Solid Incense.
Claims use since Nov. 2, 1937.

Ser. No. 415,857. MORTON G. NEUMANN, doing business as Famous Products Co., Chicago, Ill. Filed Feb. 9, 1939.

LUCKY MAN
AND
WOMAN

For Face Powder, Talcum Powder, Rouge, Lipstick, Eyebrow Pencils, Cold Cream, Vanishing Cream, Massage Cream, Lemon Cleansing Cream, Face-Bleach Cream, Toilet Water, Perfume, Face Lotion, Hair Pomade, Hair Tonic, Bay Rum, Glycerin and Rose Water, Cream of Lemon and Witch Hazel, Tooth Paste, Mouth Wash; Liniment for the Treatment of Rheumatism, Lumbago, Swollen Joints, Neuralgia, Sprains, Bruises, and the Like; Mineral Oil Laxative, Cough Syrup, Cold Tablets, Headache Tablets, Cathartic Tablets, Aspirin, Fruit Salts, Iron and Quinine Tonic, Camphorated Oil, Mustard Ointment, Milk of Magnesia, Laxative Tea, Tissue Cream, Cleansing Cream, Skin Brightener, Liquid Cleansing Cream, Liquid Face Powder, Lemon Face and Hand Lotion, Honey and Almond Lotion, Cucumber Lotion, Brilliantine, Pressing Oil, Temple Oil, Hair Oil, Skin Ointment and Skin Salve, Bath Salts, Bath Oil, Beauty Clay, Nail Polish, Nail Polish Remover, Sachet Powder, Lip Rouge, Solid Perfume, After-Shaving Lotion, Herb Tea (Iron, Wine and Quinine Tonic), Toothache Drops, Corn Remover Preparation, Laxative Chewing Gum, Buchu Compound Tablets, Haarlem Oil Liquid, Foot Powder, Foot Balm, Perfume Oil, Solid Incense, Liquid Incense, Deodorant Ointment, Deodorant Liquid, Deodorant Powder, Hair Dye, Hair Remover, Strawberry Cleansing Cream, Disinfectant, Menthovapor Salve, Diuretic Tablets, Rubbing Alcohol, Carbolic Salve, Ant Acid Powder, Sodium Tablets, Alkaline Tablets, Effervescent Salts, Laxative Tonic, Laxative Pills, Iron and Yeast Tablets, Vitamin Capsules, Iron Tonic Tablets.
Claims use since Dec. 27, 1937.

Ser. No. 415,858. MORTON G. NEUMANN, doing business as Famous Products Co., Chicago, Ill. Filed Feb. 9, 1939.

TRUE LOVE

For Vanishing Cream, Lemon Cleansing Cream, Skin Bleach Cream, Rolling Massage Cream, Cold Cream, Skin Brightener, Night Cream, Pink Vanishing Cream, Brown Vanishing Cream, Liquid Cleansing Cream, Face Powder, Liquid Face Powder, Face and Hand Lotions, Lemon Lotions, Deodorant Paste, Deodorant Liquid, Deodorant Powder, Hair Dressing Pomade, Scalp Ointment, Solid Brilliantine, Liquid Brilliantine, Shampoo, Hair Tonic, Pressing Oil, Temple Oil, Hair Dressing, Hair Slicker Oil, Hair Dye, Perfume, Skin Ointment, Skin Bleach Cream, Body Powder, Bath Salts, Bath Oil, Beauty Clay, Nail Polish, Rouge, Lipstick, Eyebrow Pencil, Toilet Water, Liquid Perfume, Solid Perfume, Sachet Powder, Perfume Crystals, Tooth Paste, Mouth Wash, Hand Cream, and Liquid and Solid Incense.
Claims use since Nov. 2, 1937.

Ser. No. 416,904. RAY J. KOEHLER, Denver, Colo. Filed Mar. 10, 1939.



Ray J. Koehler

The portrait and signature are those of the applicant.
For Liquid Preparation Used as a Cosmetic Massage in the Treatment of the Scalp for Stimulating Growth of Hair.
Claims use since Mar. 6, 1939.

Ser. No. 416,905. RAY J. KOEHLER, Denver, Colo. Filed Mar. 10, 1939.

KOEHLER SYSTEM
OF GROWING HUMAN HAIR

Ray J. Koehler

The notation "Koehler System of Growing Human Hair" is disclaimed apart from the mark. The signature is that of the applicant.
For Liquid Preparation Used as a Cosmetic Massage in the Treatment of the Scalp for Stimulating Growth of Hair.
Claims use since Mar. 6, 1939.

Ser. No. 417,765. ISADORE BENJAMIN KRAUT, New York, N. Y. Filed Apr. 1, 1939.

WELSPA

For Sulphur Mineral Bath Preparation for Use in Cases of Rheumatism, Neuritis, Arthritis, Sciatica, Lumbago, Skin Irritation, and Muscular Pains.
Claims use since Jan. 5, 1939.

Ser. No. 417,802. HOWARD D. DAY, doing business as High Chemical Company, Philadelphia, Pa. Filed Apr. 3, 1939.

SARAPIN

For Preparation for Intramuscular Use for Treatment of Neuritis, Neuralgia, Sciatica, and Lumbago.
Claims use since February, 1935.

Ser. No. 417,813. NEWMAN PHARMACAL COMPANY, Louisville, Ky. Filed Apr. 3, 1939.

NEWMAN'S GPC

For Medicinal Preparation for Internal Use as a Reconstructive Tonic and as a Vehicle Constituting a Base for Other Medicinal Ingredients.
Claims use since Feb. 24, 1939.

Ser. No. 417,859. GRACE A. BELL, doing business as Gabel Company (Not Inc.), Chicago, Ill. Filed Apr. 5, 1939.

CHIN-TITE

For Oil Containing Preparation for the Skin Used to Reduce Saggy Jowls and Crepy Neck.
Claims use since Apr. 1, 1939.

Ser. No. 418,282. THE COWLES DETERGENT COMPANY, Cleveland, Ohio. Filed Apr. 5, 1939.

DRYMET

For Fused Alkali Silicate Consisting Principally of Sodium Metasilicate Useful in Neutralizing Acids, Cleaning, or Soap and Detergent Manufacture Wherever a Concentrated Alkali Silicate is Required.
Claims use since Mar. 7, 1939.

Ser. No. 418,532. PURZONE, INC., Minneapolis, Minn. Filed Apr. 21, 1939.

PURZONE

For Anti-Freeze Solutions for Automobile Radiators.
Claims use since Nov. 9, 1938.

Ser. No. 418,557. CONSTANTINE ATHANASI, doing business as Atlantic Laboratory, Boston, Mass. Filed Apr. 22, 1939.

HORT-O-LIN

For Blood Purifier.
Claims use since Mar. 1, 1936.

Ser. No. 418,602. SCHERING CORPORATION, Bloomfield, N. J. Filed Apr. 22, 1939.

PRODECORT

For Hormone Preparation Recommended for the Treatment of Addison's Disease, Asthenia, and Other Conditions Due to Hormone Deficiency.
Claims use since Apr. 17, 1938.

Ser. No. 418,653. SMITHEREEN COMPANY, Chicago, Ill. Filed Apr. 24, 1939. Under 10-year proviso.

LAST LUNCH

For Preparation for Exterminating Rats and Mice.
Claims use since 1888.

Ser. No. 418,663. WALGREEN CO., Chicago, Ill. Filed Apr. 24, 1939.

Walk-Easy

For Foot Preparations—Namely, Foot Powder, Foot Bath Tablets, Foot Balm, Corn Remover, Which is a Liquid Preparation for Aid in Removing Corns.
Claims use since September, 1926.

Ser. No. 418,762. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Apr. 27, 1939.

PADROPHYLL

For Decongestant and Stimulant Preparations Including preparations for the Treatment of Asthma and for Decongestion of the Nasal and Bronchial Passages and for Treatment of All Conditions Requiring Decongestion and/or Stimulation.
Claims use since Apr. 25, 1939.

Ser. No. 418,792. SHARP & DOHME, INCORPORATED, Philadelphia, Pa. Filed Apr. 27, 1939.

AGRONITE

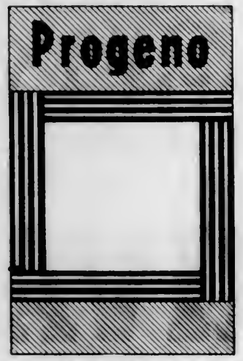
For Preparations for the Treatment of Infections Caused by Organisms of the Intercellular Type Including the Gonococcus.
Claims use since Apr. 25, 1939.

Ser. No. 418,989. THE SELIG COMPANY, Atlanta, Ga. Filed May 2, 1939.

WEEVI-KIL

For Insecticides.
Claims use since Apr. 2, 1934.

Ser. No. 419,022. THE KNOX COMPANY, Los Angeles, Calif. Filed May 3, 1939.



For Medicinal Preparations Having Analgesic, Stimulating, and Tonic Properties, Useful in Glandular Therapy, and Indicated in and for the Treatment of Prostatitis, Prostatorrhea, and Other Functional Disorders of the Prostate Gland.
Claims use since Mar. 1, 1938.

Ser. No. 419,023. THE KNOX COMPANY, Los Angeles, Calif. Filed May 3, 1939.



For Medicinal Preparations Having Analgesic Properties and Indicated in and for the Treatment of Arthritis, Lumbago, Neuritis, Rheumatism, and Sciatica.
Claims use since Mar. 1, 1938.

Ser. No. 419,031. METAPLAST CORPORATION, New York, N. Y. Filed May 3, 1939.

METAPLAST

For Chemical Composition for Applying Metal Coating to Non-Metallic Surfaces.
Claims use since Nov. 18, 1938.

Ser. No. 419,366. THE BLOSSER COMPANY, Atlanta, Ga. Filed May 13, 1939.

"PEN-E-FUME"

For Powder for the Relief of the Paroxysms of Asthma.
Claims use since Apr. 22, 1939.

Ser. No. 419,529. SCHOLLER BROTHERS, INC., Philadelphia, Pa. Filed May 17, 1939.

DuraBeau

For Textile Treating Composition.
Claims use since May 10, 1939.

Ser. No. 419,554. THE GRAY CHEMICAL CO., Roulette, Pa. Filed May 18, 1939.

SYLVAC

For Activated Carbon Made from Wood.
Claims use since Aug. 29, 1938.

Ser. No. 419,561. JOHN POWELL & CO., INC., New York, N. Y. Filed May 18, 1939.

PYRISCENT

For Series of Oil Soluble Perfume Oils.
Claims use since Apr. 21, 1939.

Ser. No. 419,585. THE MACKWIN COMPANY, Winona, Minn. Filed May 19, 1939.

Mackwin

For Insecticide.
Claims use since May 1, 1939.

Ser. No. 419,612. DERMETICS, INC., Seattle, Wash. Filed May 20, 1939.

SCALP-GLO

For Blend of Oils for Conditioning the Scalp.
Claims use since Apr. 29, 1939.

Ser. No. 419,643. BURROUGH BROTHERS MANUFACTURING COMPANY, doing business as Burrough Brothers Mfg. Company, Baltimore, Md., and Cleveland, Ohio. Filed May 20, 1939.

CHERCONATE

For Preparation for Use as an Expectorant and Cough Sedative.
Claims use since Jan. 1, 1939.

Ser. No. 419,859. FRANK CROSSLEY, doing business as The A. C. A. Company, Cleveland, Ohio. Filed May 26, 1939.

AMPHOTERIC ACTAN ADSORBENT

The words "Amphoteric" and "Adsorbent" are disclaimed apart from the mark.
For Internal Medicine for the Relief of Hyperacidity.
Claims use since Mar. 1, 1938.

Ser. No. 419,942. ATLAS SUPPLY COMPANY, Newark, N. J. Filed May 29, 1939.

PERMA-GUARD

For Automobile Anti-Freeze Compound.
Claims use since May 22, 1939.

Ser. No. 420,142. ROOTONE PRODUCTS, INC., St. Louis, Mo. Filed June 3, 1939.

ROOTONE

For Shampoo and Scalp Massage Liquids.
Claims use since Jan. 1, 1936.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 416,333. NATIONAL FIREWORKS, INC., West Hanover, Mass. Filed Feb. 23, 1939.

SQUARE SHOOTERS

For Firecrackers.
Claims use since January, 1939.

CLASS 12

Construction Materials

Ser. No. 411,579. JOHN B. KRITZER, doing business as Kritzer Contracting Co., Oak Park, Ill. Filed Oct. 13, 1938.

STUCCO-TEX

The word "Stucco" is disclaimed apart from the mark.
For Concrete Masonry Exterior Plaster.
Claims use since Sept. 21, 1938.

Ser. No. 418,656. TENNISON BROTHERS INCORPORATED, Memphis, Tenn., and Texarkana, Ark. Filed Apr. 24, 1939.

TERMI-SHIELD

The word "Shield" is disclaimed apart from the mark.
For Sheet Metal Devices to Prevent the Entry of Termites in Building Constructions.
Claims use since Apr. 10, 1939.

Ser. No. 418,916. CENTRAL HARDWARE CO., St. Louis, Mo. Filed May 1, 1939.

qualiTYL

For Wall Tiles.
Claims use since Mar. 1, 1939.

Ser. No. 418,917. CENTRAL HARDWARE CO., St. Louis, Mo. Filed May 1, 1939.

thrifTYL

For Wall Tiles.
Claims use since Mar. 1, 1939.

Ser. No. 419,047. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 3, 1939.

RIVAL

For Composition Roofing Material.
Claims use since Aug. 2, 1937.

Ser. No. 419,095. TYLAC COMPANY, Monticello, Ill. Filed May 4, 1939.

Miracle

For Tiles and Panels for Decorative and Structural Purposes.
Claims use since Mar. 28, 1938.

Ser. No. 419,125. RICHMOND SCREW ANCHOR CO., INC., New York, N. Y. Filed May 5, 1939.

TYSCRU

For Concrete-Molding Apparatus and Parts Thereof for Casting Concrete in Situ.
Claims use since Dec. 15, 1914.

Ser. No. 419,217. F. E. BERRY, JR. & CO., INC., Everett, Mass. Filed May 9, 1939.

BERRY-CEL

For Sound Absorbing Material.
Claims use since Nov. 26, 1935.

Ser. No. 419,290. CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y. Filed May 11, 1939.

PERFOLATH

For Gypsum Wallboard and Gypsum Lath Used as Construction Material.
Claims use since Apr. 3, 1939.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 405,185. EDWARD SUGARMAN, doing business as Pacific Nipple Company, San Francisco, Calif. Filed Apr. 12, 1938.

PACIFIC

For Pipe Fittings and Pipe Nipples.
Claims use since Mar. 29, 1938.

Ser. No. 415,338. MAX HIRSCH, INC., New York, N. Y. Filed Jan. 28, 1939.

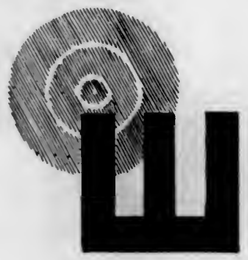
EXCELLO

For Combination China and Chrome Plate Baby Plates and Food Warmers Heated by Self-Contained Hot Water Reservoirs.
Claims use since 1914.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 415,731. MEUTSCH, VOIGTLÄNDER & CO., VORMALS GEWERKSCHAFT WALLRAM, Essen-Ruhr, Germany. Filed Feb. 7, 1939.



The drawing is lined for shading only and the character is the letter "W".
For Tungsten, Molybdenum, Titanium, Tantalum, Niobium, Vanadium and Alloys Thereof, Carbides, Silicides, Borides, Nitrides, and Beryllides, These Being Metallic Alloys with the Metals Iron, Cobalt, Nickel, Chromium, Manganese, Vanadium, Titanium, Zirconium, Niobium, and Tantalum.
Claims use since Dec. 31, 1925.

Ser. No. 418,617. YOUNGSTOWN WELDING AND ENGINEERING COMPANY, Youngstown, Ohio. Filed Apr. 22, 1939.



No claim is made to the representation of an anchor.
For Anchors Formed of Monel Metal.
Claims use since Mar. 15, 1939.

CLASS 15

Oils and Greases

Ser. No. 400,711. WASATCH OIL REFINING COMPANY, Woods Cross and Salt Lake City, Utah. Filed Dec. 10, 1937.



No claim is made to the word "Gasoline" apart from the mark.
For Gasoline.
Claims use since Aug. 1, 1933.

Ser. No. 418,339. R. M. HOLLINGSHEAD CORPORATION, Camden, N. J. Filed Apr. 17, 1939.



Applicant disclaims the word "Motor" apart from the mark.
For Motor Oils.
Claims use since October, 1938.

CLASS 16

Paints and Painters' Materials

Ser. No. 415,185. RADIANT FINISH COMPANY, Chicago, Ill. Filed Jan. 24, 1939.

HY-GLO

For Varnish-Like Finish for Automotive Equipment and the Like.
Claims use since Apr. 2, 1938.

Ser. No. 418,599. ROBERT RAMSEUR, Bremerton, Wash. Filed Apr. 22, 1939.

SUPER-GLOSS

No claim is made to the word "Gloss" apart from the mark.
For Dance Floor Wax.
Claims use since Dec. 1, 1938.

Ser. No. 419,162. THE SHERWIN-WILLIAMS COMPANY, Cleveland, Ohio. Filed May 6, 1939.

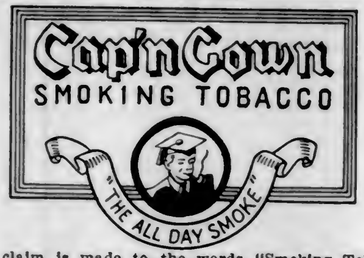
Graphic Arts

For Paints (Ready Mixed, Paste Form, and Dry), Paint Enamels, Lacquers, Japans, Varnishes, Stains, Paint Fillers, Water Paints, White Lead, Dry Paint Colors, and Paint Pigments.
Claims use since Jan. 31, 1939.

CLASS 17

Tobacco Products

Ser. No. 417,720. TOBACCO PROCESSING CO., INC., New York, N. Y. Filed Mar. 31, 1939.



No claim is made to the words "Smoking Tobacco" and "The All Day Smoke" apart from the mark.
For Smoking Tobacco and Cigarettes.
Claims use since Nov. 1, 1938.

Ser. No. 418,683. GEORGE I. GOLDEN, doing business as George Golden, Los Angeles, Calif. Filed Apr. 25, 1939.

Country Doctor

For Smoking Tobacco.
Claims use since Dec. 8, 1936.

Ser. No. 418,873. GRABOSKY BROTHERS, Philadelphia, Pa. Filed Apr. 29, 1939.



For Cigars.
Claims use since Nov. 4, 1933.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 411,941. COLUMBUS CYCLE AND SPORTING GOODS CO., Columbus, Ohio. Filed Oct. 22, 1938.

DE SOTO

The name "De Soto" is the surname of the celebrated explorer, Hernando De Soto.
For Bicycles and the Following Parts Thereof, Frames, Handle-Bars, Forks, Pedals, Cranks, Brakes, Wheels, and Mud Guards.
Claims use since Sept. 28, 1938.

Ser. No. 416,884. THE WESTINGHOUSE AIR BRAKE COMPANY, Wilmerding, Pa. Filed Mar. 9, 1939.

ROTOBRAKE

For Brakes for Vehicle Wheel and Axle Assemblies.
Claims use since Feb. 16, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 412,017. WILLARD STORAGE BATTERY COMPANY, Cleveland, Ohio. Filed Oct. 24, 1938.

Willard

For Storage Batteries and Parts Thereof.
Claims use since 1931.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 414,379. TOBLER & CO., CHEMISCHE FABRIK, Altstatten, Switzerland. Filed Dec. 30, 1938.



For Ski Wax.
Claims use since Jan. 15, 1935.

Ser. No. 416,641. WILLIAM B. BOLGER, Cleveland, Ohio. Filed Mar. 3, 1939.

POKER DARTS

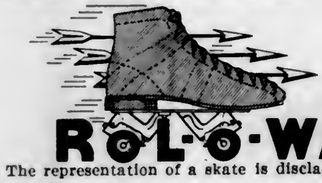
For Dart Game.
Claims use since Mar. 1, 1939.

Ser. No. 417,518. ST. LOUIS PISTOLS & CAPS INC., St. Louis, Mo. Filed Mar. 27, 1939.

G-BOY

For Toy Paper Cap Pistol.
Claims use since Feb. 16, 1939.

Ser. No. 418,266. THE ROLL-AWAY SKATE COMPANY, Cleveland, Ohio. Filed Apr. 14, 1939.



The representation of a skate is disclaimed apart from the mark.
For Roller Skates.
Claims use since Feb. 15, 1939.

Ser. No. 418,484. JUNIOR TOY CORPORATION, Hammond, Ind. Filed Apr. 20, 1939.



The representation of the name plate and the word "Tricycle" are disclaimed apart from the mark. The drawing is lined for red.
For Children's Velocipedes.
Claims use since Apr. 10, 1939.

Ser. No. 419,993. AMERICAN CHARACTER DOLL CO. INC., New York, N. Y. Filed May 31, 1939.

HUSH-A-BYE

For Dolls.
Claims use since Apr. 3, 1939.

Ser. No. 420,014. MITSUBISHI SHOJI KAISHA, LTD., Tokyo, Japan, and New York, N. Y. Filed May 31, 1939.



For Fishing Gut.
Claims use since Sept. 5, 1918.

Ser. No. 420,017. MITSUBISHI SHOJI KAISHA, LTD., Tokyo, Japan, and New York, N. Y. Filed May 31, 1939.

Three Diamonds

For Fishing Gut.
Claims use since Aug. 31, 1929.

Ser. No. 420,075. WALTER H. SCHAEFER, Mount Airy, Philadelphia, Pa. Filed June 1, 1939.

PALS

For Playing Cards.
Claims use since May 22, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 403,829. REMINGTON ARMS COMPANY, INC., Bridgeport, Conn. Filed Mar. 8, 1938.

CAMPMASTER

For Cutlery, Particularly Bayonets, Pocket Knives, Sheath Knives, and Shears, and Parts Thereof.
Claims use since April, 1937.

Ser. No. 411,860. FEDERAL-MOGUL CORPORATION, Detroit, Mich. Filed Oct. 21, 1938.

Alpha Process

The word "Process" is disclaimed except as shown.
For Whole Bearings and Half Bearings for Machinery Shafting.
Claims use since Oct. 2, 1937.

Ser. No. 415,780. INTERNATIONAL FILTER CO., Chicago, Ill. Filed Feb. 8, 1939.

ACCELATOR

For Liquid Treating Apparatus and Equipment in Particular, Apparatus and Equipment for Clarifying Turbid Liquids, for Removing Hardness from Water, for Removing Dissolved and Colloidal Substances from Water, Sewage and Liquids in General, for Stabilizing Brines and Solutions in General with Respect to Substances Dissolved Therein, and for Chemically Treating Water Supplies and Water Wastes of Municipalities, Institutions, and Industrial Plants.
Claims use since January, 1939.

Ser. No. 417,323. RALPH N. CHIPMAN, doing business as Berako Company, Bound Brook, N. J. Filed Mar. 21, 1939.

VAPOBLAST

For Machines for the Application of Insecticides and Fungicides.
Claims use since Dec. 28, 1938.

Ser. No. 418,287. THE BULLARD COMPANY, Bridgeport, Conn. Filed Apr. 15, 1939.

CUT MASTER

For Vertical Turret Lathes.
Claims use since Mar. 22, 1939.

CLASS 24

Laundry Appliances and Machines

Ser. No. 415,527. JOHN L. TANDY, Kansas City, Mo. Filed Feb. 2, 1939.



The words "Ti-Horn" and "Trade Mark" are disclaimed apart from the mark.
For Cleaning and Pressing Forms.
Claims use since Mar. 1, 1935.

CLASS 27

Horological Instruments

Ser. No. 403,277. PERRET & BERTHOUD S. A., Geneva, Switzerland. Filed Feb. 21, 1938.

UNIVERSAL GENEVE

The word "Geneve" is disclaimed apart from the mark as shown.
For Watches and Parts Thereof, Stop Watches, Alarm-Clocks, Clocks.
Claims use since May 29, 1936.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 413,404. JOSEPH H. GROSS, doing business as J. H. Gross & Co., Cleveland, Ohio. Filed Dec. 2, 1938.

JG

For Pendants, Bracelets, Finger Rings, Earrings, and Other Ornaments in the Nature of Jewelry Not Including Watches.
Claims use since Sept. 1, 1934.

Ser. No. 417,502. NATIONAL SILVER COMPANY, New York, N. Y. Filed Mar. 25, 1939.

ASTRID

For Knives, Forks, Spoons, and Other Tableware Made from a Base Metal or Alloy with a Silverplate Thereon.
Claims use since Mar. 15, 1939.

Ser. No. 419,685. PRESIDENT NOVELTY & JEWELRY CO. INC., New York, N. Y. Filed May 22, 1939.

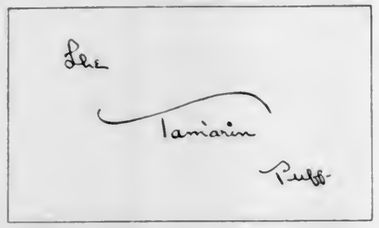


For Necklaces, Bracelets.
Claims use since Apr. 1, 1939.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 417,065. EDWIN H. TAMARIN, Forest Hills, Long Island, N. Y. Filed Mar. 14, 1939.



The name "Tamarin" is in the handwriting of the applicant. The word "Puff" is disclaimed apart from the mark.
For Powder Puffs.
Claims use since Feb. 16, 1939.

Ser. No. 419,576. HUGHES-AUTOGRAF BRUSH CO., INC., New York and Troy, N. Y. Filed May 19, 1939.

NEW DAWN

For Toilet Brushes.
Claims use since May 1, 1939.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 412,096. GEORGE J. HIGGINSON, New York, N. Y. Filed Oct. 27, 1938.



Applicant disclaims the word "America" apart from the mark.
For Dinner Sets of Earthenware.
Claims use since April, 1938.

CLASS 31

Filters and Refrigerators

Ser. No. 419,127. THE C. SCHMIDT CO., Cincinnati, Ohio. Filed May 5, 1939.

THRIFCASE

For Refrigerators and Refrigerated Display Cases.
Claims use since June 1, 1938.

Ser. No. 419,634. RALPH A. RIESGO, New York, N. Y. Filed May 20, 1939.

Penflo

For Beverage Coolers and Equipment and Parts Therefor.
Claims use since Apr. 25, 1939.

Ser. No. 420,070. ONONDAGA MARKETERS, Woodhaven, N. Y. Filed June 1, 1939.



For Oil Filters.
Claims use since Apr. 5, 1938.

CLASS 32

Furniture and Upholstery

Ser. No. 394,380. OLD HICKORY FURNITURE COMPANY, Martinsville, Ind. Filed June 22, 1937.



The term "American" is disclaimed apart from the mark.

For General Articles of Furniture—Namely, Living Room, Dining Room, and Bedroom Suites, Porch Furniture Including, Chairs, Tables, Settees, Stools, Swings, Occasional Pieces of Furniture—Namely, Rockers, Occasional Tables, End Tables, Coffee Tables, Serving Tables, Occasional Chairs and Upholstered Chairs, Upholstered Davenports, Dressers, Beds, Mirrors, Chests, Large and Small Articles—Namely, Cabinets, Magazine Racks, Smoking Stands.

Claims use since Apr. 29, 1937.

Ser. No. 418,905. TOMLINSON OF HIGH POINT, High Point, N. C. Filed Apr. 29, 1939.



The colors shown in the mark, beginning with the isolated color in the lower right portion of the palette and naming them in sequence in a clockwise direction, are as follows: field green, mocha, gold, blue, mauve, plum, turquoise, amber, egg shell, pistachio, and rose.

For Articles of Furniture—Namely, Buffets, Dining Tables, Serving Tables, China Cabinets, Corner Cabinets, Mirrors, Dining Chairs, Sofas, Short Sofas, Club Chairs, Wing Chairs, Barrel Chairs, Occasional Chairs, Desk Chairs, Benches, Beds, Dressers, Vanities, Dressing Tables, Chests, Chests on Chests, Night Tables, Bed Room Chairs, Bed Room Benches, Highboys, Lowboys, Secretaries, Desks, Coffee Tables, Card Tables, End Tables, Lamp Tables, Pier Tables, Tilt-Top Tables, Drop Leaf Tables, Chairside Tables, Butlers' Tables, Reading Stands, Arm Chairs, Writing Tables, Console Tables, Stools, Long Stools, Cupboards, Bookcases, Couches, Day Beds, Folding Tables, Sideboards, Cradles, Sofa Tables, Stands, Window Seats, Bureaus, Dressing Screens and Panels Therefor.

Claims use since Jan. 9, 1939.

Ser. No. 419,530. TOMLINSON OF HIGH POINT, High Point, N. C. Filed May 17, 1939.



The representation of the furniture as such is disclaimed apart from the mark.

For Articles of Furniture—Namely, Buffets, Dining Tables, Serving Tables, China Cabinets, Corner Cabinets, Mirrors, Dining Chairs, Sofas, Short Sofas, Club Chairs, Wing Chairs, Barrel Chairs, Occasional Chairs, Desk Chairs, Benches, Beds, Dressers, Vanities, Dressing Tables, Chests, Chests on Chests, Night Tables, Bed Room Chairs, Bed Room Benches, Highboys, Lowboys, Secretaries, Desks, Coffee Tables, Card Tables, End Tables, Lamp Tables, Pier Tables, Tilt-Top Tables, Drop Leaf Tables, Chairside Tables, Butlers' Tables, Reading Stands, Arm Chairs, Writing Tables, Console Tables, Stools, Long Stools, Cupboards, Bookcases, Couches, Day Beds, Folding Tables, Sideboards, Cradles, Sofa Tables, Stands, Window Seats, Bureaus, Dressing Screens and Panels Therefor.

Claims use since Jan. 9, 1939.

Ser. No. 419,531. TOMLINSON OF HIGH POINT, High Point, N. C. Filed May 17, 1939.



No claim is made to the name "Mount Vernon" or the term "Collection" apart from the mark.

For Articles of Furniture—Namely, Buffets, Dining Tables, Serving Tables, China Cabinets, Corner Cabinets, Mirrors, Dining Chairs, Sofas, Short Sofas, Club Chairs, Wing Chairs, Barrel Chairs, Occasional Chairs, Desk Chairs, Benches, Beds, Dressers, Vanities, Dressing Tables, Chests, Chests on Chests, Night Tables, Bed Room Chairs, Bed Room Benches, Highboys, Lowboys, Secretaries, Desks, Coffee Tables, Card Tables, End Tables, Lamp Tables, Pier Tables, Tilt-Top Tables, Drop Leaf Tables, Chairside Tables, Butlers' Tables, Reading Stands, Arm Chairs, Writing Tables, Console Tables, Stools, Long Stools, Cupboards, Bookcases, Couches, Day Beds, Folding Tables, Sideboards, Cradles, Sofa Tables, Stands, Window Seats, Bureaus, Dressing Screens and Panels Therefor.

Claims use since May 5, 1939.

Ser. No. 419,639. JOHN L. STENQUIST, doing business as Secretaire Manufacturing Company, Baltimore, Md. Filed May 20, 1939.

Sec·re·taire'

For Drawing and Writing Board.
Claims use since Jan. 1, 1938.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 403,648. DAIMLER-BENZ AKTIENGESELLSCHAFT, Stuttgart-Unterturkheim, Germany. Filed Mar. 3, 1938.



No claim is made to the word "Diesel" apart from the mark.

For Illuminating Equipment for Motor Vehicles Such as Search Lights, Spot Lights, Tail and Stop Lights, Lights for Illuminating License Plates, Illuminating Equipment for Indicating Instruments, Hand Lamps, Illuminating Equipment for the Interior of Motor Vehicles, All Such Equipment for Petroleum, Acetylene Operation and Also for Operation with Candles as Light Source, Soldering-Lamps, Hot-Water Foot-warmers, Foot-Warmers Heated by Liquid or Solid Fuel, Oil and Liquid Fuel Lamps, Gas-Lamps, Gas-Lighters, Lamp and Gas Brackets, Metal Lamp-Reflectors, Lamp-Galleries, Lamp-Lighters' Torches, Lamp Pedestals and Standards, Lamp-Pendants, Oil and Gas Burners, Light-Extinguishers, Gaseliers, Chandeliers, Lamp Windguards, Billiard-Table Gas and Oil Lamps, Oil and Gas Reading-Lamps, Night Oil and Candle Lights, Carriage Oil and Gas Lamps, Night-Light Holders, Oil and Gas Signal-Lamps, Grease-Guards, Smoke-Catchers, Vapor-Burners, Antivibrators for Incandescent Oil and Gas Lamps, Mantle-Supports, Wick-Burners, Wick-Trimmers.

Claims use since December, 1932.

Ser. No. 418,190. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Apr. 13, 1939.

GAS-EIGHTY

Applicant disclaims the word "Gas" apart from the mark.

For Gas Burning Boilers.
Claims use since June 23, 1937.

Ser. No. 418,678. THE DELAWARE, LACKAWANNA & WESTERN COAL COMPANY, New York, N. Y. Filed Apr. 25, 1939.

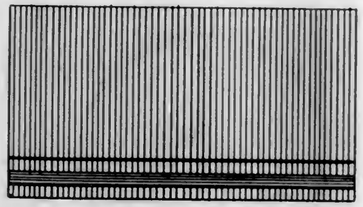
'blue coal'

Applicant disclaims the word "Coal" except as shown.
For Coal-Burning Hot Water Heaters.
Claims use since Apr. 1, 1939.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

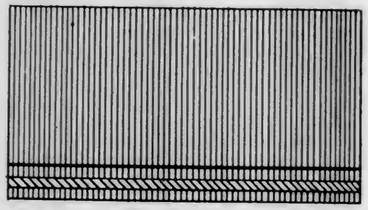
Ser. No. 412,838. WESTERN STATES MFG. CO., Sioux City, Iowa. Filed Nov. 16, 1938.



Trade-mark consists of a blue stripe interposed between a red stripe and a salmon stripe, the stripes being formed by the exposed edges of the three layers of rubber of the patching material, the upper layer being colored red, the intermediate layer being blue and the lower layer being salmon, respectively. The representation of the goods is disclaimed.

For Tire Patches (Casing Boots).
Claims use since Aug. 1, 1938.

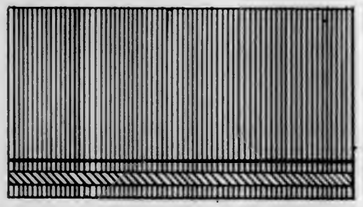
Ser. No. 412,839. WESTERN STATES MFG. CO., Sioux City, Iowa. Filed Nov. 16, 1938.



Trade-mark consists of a green stripe interposed between an upper salmon colored stripe and a lower salmon colored stripe, the stripes being formed by the exposed edges of the three layers of rubber of the patching material, the upper layer being colored salmon, the center layer being green and the lower layer being salmon, respectively. The representation of the goods is disclaimed.

For Tire Patches (Casing Boots).
Claims use since Apr. 1, 1932.

Ser. No. 412,840. WESTERN STATES MFG. CO., Sioux City, Iowa. Filed Nov. 16, 1938.



Trade-mark consists of a green stripe interposed between a salmon colored stripe and a red stripe, the stripes being formed by the exposed edges of the three layers of rubber of the patching material, the upper layer being colored salmon, the center layer being green, and the underneath layer being colored red, respectively. The representation of the goods is disclaimed.

For Tire Patches (Casing Boots).
Claims use since July 5, 1936.

Ser. No. 419,449. E. M. SMITH CO., Los Angeles, Calif. Filed May 15, 1939.



For Brake-Block Lining.
Claims use since May 1, 1939.

Ser. No. 419,450. E. M. SMITH CO., Los Angeles, Calif. Filed May 15, 1939.

RED DIAMOND

For Brake-Block Lining.
Claims use since May 1, 1939.

CLASS 36

Musical Instruments and Supplies

Ser. No. 419,152. HARRY EDWARD O'BRIEN, SR., doing business as Harry E. O'Brien & Son, Indianapolis, Ind. Filed May 6, 1939.

PRIMER CLARINET

The word "Clarinet" is disclaimed apart from the mark.

For Clarinets.
Claims use since Apr. 15, 1939.

CLASS 37

Paper and Stationery

Ser. No. 408,209. MARY SCOTT ROWLAND, LTD., New York, N. Y. Filed July 5, 1938. Under Section 5b of the act of 1905 as amended in 1920.

Established 1887
LONDON PARIS
Mary Scott Rowland

The words "London" and "Paris" are disclaimed apart from the mark.

For Tissue Paper.
Claims use since 1932.

Ser. No. 418,459. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Apr. 19, 1939.

Mignon FEATHERSOFT

No claim is made to the word "Feathersoft" apart from the mark. The portrait is fanciful.

For Cleansing Tissues.
Claims use since Mar. 30, 1939.

Ser. No. 418,460. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Apr. 19, 1939.



Park Avenue Fabric

No claim is made to the word "Fabric" apart from the mark.

For Writing Tablets, Portfolios, Envelopes, Package Paper, and Box Paper.
Claims use since Mar. 28, 1939.

Ser. No. 418,781. HENRY LEDERER AND BROTHER, INCORPORATED, Providence, R. I. Filed Apr. 27, 1939.

MEM-O-CLOCK

No claim is made to the portion of the mark "Clock" apart from the mark.

For Combination Clock and Desk Pads.
Claims use since Apr. 19, 1939.

Ser. No. 419,652. BERMINGHAM & PROSSER CO., Chicago, Ill. Filed May 22, 1939.

REVELOUR

For Art and Cover Papers.
Claims use since Feb. 16, 1939.

Ser. No. 419,668. HORDER'S INCORPORATED, Chicago, Ill. Filed May 22, 1939.

Cellulook

For Covers for Papers.
Claims use since May 11, 1939.

CLASS 38

Prints and Publications

Ser. No. 394,315. JOSEPH CAPITAINE, doing business as Capitaine Publishing Co., New York, N. Y. Filed June 21, 1937.

WOMEN

For Quarterly Magazine Exclusively for Beauty Parlors and the Like Featuring Photographs and Other Subject Matter Pertaining to Hair and Facial Make-Up.
Claims use since April, 1937.

Ser. No. 410,024. DETECTIVE COMICS, INC., New York, N. Y. Filed Aug. 27, 1938.

SUPERMAN

For Cartoon Strip.
Claims use since Jan. 3, 1937.

Ser. No. 414,999. THE INDUSTRIAL PUBLISHING COMPANY, Cleveland, Ohio. Filed Jan. 19, 1939.

Occupational **HAZARDS & SAFETY**

For Publication Directed to the Field of Industrial Health and Accident Problems Published Monthly or From Time to Time.
Claims use since October, 1938.

Ser. No. 417,994. AMERICAN STANDARDS ASSOCIATION, New York, N. Y. Filed Apr. 8, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

ASA

For Publications Relating to Engineering and Industrial Standards in the Electrical, Mining, Mechanical, Building, Safety, Consumer Goods, and Traffic Fields, Published From Time to Time.
Claims use since June 13, 1930.

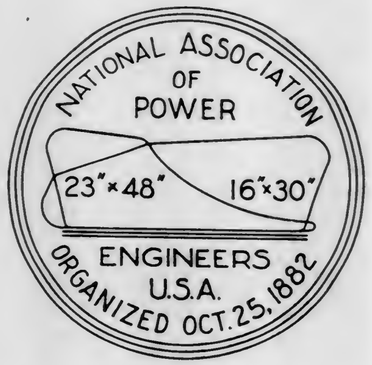
Ser. No. 419,131. ALLAN W. "BILL" WELLS, doing business as Wells Feature Syndicate, Hollywood, Calif. Filed May 5, 1939.

CAVALCADE of HOLLYWOOD

By "BILL" WELLS

Applicant disclaims the words "Hollywood" and "Bill Wells" apart from the mark.
For News Column.
Claims use since Jan. 16, 1936.

Ser. No. 419,525. NATIONAL ASSOCIATION OF POWER ENGINEERS, INC., Chicago, Ill. Filed May 17, 1939.



Applicant disclaims the phrase "U. S. A." apart from the mark.
For Periodicals Issued at Stated Intervals—Namely, Monthly and Other Publications Issued From Time to Time.
Claims use since Feb. 14, 1928.

CLASS 39

Clothing

Ser. No. 403,782. RELIABLE STORES CORPORATION, Baltimore, Md. Filed Mar. 7, 1938.

Carlton Club

No claim is made to the word "Carlton" except in conjunction with the other features of the mark.
For Men's Suits and Overcoats.
Claims use since Mar. 1, 1938.

Ser. No. 403,783. RELIABLE STORES CORPORATION, Baltimore, Md. Filed Mar. 7, 1938.



No claim is made to the word "Chester" except in conjunction with the other features of the mark.
For Men's Suits and Overcoats.
Claims use since Mar. 1, 1938.

Ser. No. 407,302. J. B. CARROLL HAT COMPANY, Chicago, Ill. Filed June 10, 1938.



The drawing is lined for red and blue. Applicant disclaims the words "Tailored By" except as shown.
For Ladies' Hats and Hat Bodies.
Claims use since Sept. 29, 1934.

Ser. No. 412,879. SOL SHERMAN, doing business as Sherman Bows, New York, N. Y. Filed Nov. 17, 1938.



Applicant disclaims the phrase "Pepper and Salt Ties" and the picture of a necktie except as shown.
For Neckties.
Claims use since Oct. 15, 1938.

Ser. No. 413,681. PALMA FROCKS, INC., New York, N. Y. Filed Dec. 10, 1938.

Peg Creegan original PALMA INC., N.Y.

The name Peg Creegan is a facsimile signature of Peg Creegan. The notations "original" and "N. Y." are disclaimed apart from the mark.
For Ladies' and Misses' Dresses, Dress Ensembles, Coats, Suits, Blouses, and Outerskirts.
Claims use since January, 1938.

Ser. No. 416,801. FRANK R. JELLEFF, INC., Washington, D. C. Filed Mar. 8, 1939.

Congressional

For Women's and Misses' Shoes Made of Leather or Fabric or Combinations of the Same, and Women's and Misses' Suits.
Claims use since Jan. 28, 1939.

Ser. No. 416,893. Jos. S. COHEN & SONS CO., INC., New York, N. Y. Filed Mar. 10, 1939.

Glamourous Pongee

The word "Pongee" is disclaimed apart from the mark.
For Ladies' and Misses' Dresses and Frocks.
Claims use since Feb. 3, 1937.

Ser. No. 416,894. Jos. S. COHEN & SONS CO., INC., New York, N. Y. Filed Mar. 10, 1939.

LaMilitaire

For Ladies' and Misses' Frocks and Dresses.
Claims use since Nov. 27, 1935.

Ser. No. 417,117. CHANTICLEER HEADWEAR, INC., Long Island City, N. Y. Filed Mar. 16, 1939.



Applicant disclaims the word "Hats".
For Hats for Men, Women, and Children.
Claims use since Jan. 1, 1939.

Ser. No. 417,214. GARFINKEL & RITTER, New York, N. Y. Filed Mar. 18, 1939.

BRYN RITE

For Women's Lingerie—Namely, Chemises, Panties, Night-Gowns, Pajamas, Slips, Brassieres, Negligees, and Corsets.
Claims use since Feb. 11, 1938.

Ser. No. 417,264. THE COTTON SHOP, INC., New York, N. Y. Filed Mar. 20, 1939.

CRUISEAU

For Ladies' and Children's Dresses, Outer Skirts, Sweaters, Suits, Coats, Sport Dresses, Outer Shirts, Shoes of Leather, Fabric, or Combinations of Said Materials, Blouses, Lounging Robes, Slippers, Jackets, and Hats.
Claims use since Feb. 11, 1939.

Ser. No. 417,925. MAX LIMAN, doing business as M. Liman Manufacturing Co., Minneapolis, Minn. Filed Apr. 6, 1939.

JENAX

For Men's, Women's, Children's, and Infants' Snow and Sport Clothing—Namely, Ski Suits and Snow Suits.
Claims use since Feb. 1, 1939.

Ser. No. 418,821. H. C. COHN & Co., Rochester, N. Y. Filed Apr. 28, 1939.

TEB-TIE

The word "Tie" is disclaimed apart from the mark.
For Neckties.
Claims use since Apr. 6, 1939.

Ser. No. 418,844. WILLIAM MANCIK, New York, N. Y. Filed Apr. 28, 1939.

DUCKIES

For Rubber Waterproof Innershoe to be Worn Upon the Foot and Inside of the Shoe of a Wearer.
Claims use since Apr. 24, 1939.

Ser. No. 418,961. ADLER & ADLER, INC., New York, N. Y. Filed May 2, 1939.

SPORTS-ACTION

The word "Sports" is disclaimed apart from the mark.
For Misses' and Women's Dresses, Suits, Skirts, Jackets, Coats, and Blouses.
Claims use since Apr. 14, 1939.

Ser. No. 418,975. HAT CORPORATION OF AMERICA, Norwalk, Conn. Filed May 2, 1939.



For Hats for Men.
Claims use since Apr. 25, 1939.

Ser. No. 419,048. SWISS FABRIC GROUP, New York, N. Y. Filed May 3, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

Maitschie

For Women's and Girls' Dresses.
Claims use since Apr. 21, 1939.

Ser. No. 419,067. THE BEDFORD SHIRT COMPANY, New York, N. Y. Filed May 4, 1939.

THE HIT PARADE

For Men's and Boys' Dress, Negligee, and Sport Shirts.
Claims use since April, 1938.

Ser. No. 419,068. THE BEDFORD SHIRT COMPANY, New York, N. Y. Filed May 4, 1939.

Sir Richard

For Men's and Boys' Dress, Negligee, and Sport Shirts.
Claims use since February, 1934.

Ser. No. 419,136. B. ALTMAN & CO., New York, N. Y. Filed May 6, 1939.

Suburbanette

For Hosiery.
Claims use since Mar. 31, 1939.

Ser. No. 419,143. COHEN, GOLDMAN & CO., INC., New York, N. Y. Filed May 6, 1939.

IVY LEAGUE MODEL

The word "Model" is disclaimed apart from the mark.
For Men's, Boys', and Children's Outer Garments, Consisting of Coats, Vests, Pants, and Trousers; Also Men's Overcoats and Topcoats; Also Women's Overcoats, Topcoats, and Suits, Consisting of Outer Coat, Ensemble, Vest, and Skirt.
Claims use since Nov. 5, 1938.

Ser. No. 419,147. THE O. L. HINDS COMPANY, Burlington, Vt. Filed May 6, 1939.

playKing

For Sportwear for Men, Women, and Children—Namely, Suits, Coats, Skirts, Pants, and Hats.
Claims use since Mar. 15, 1939.

Ser. No. 419,191. HOLLYWOOD ROGUE SPORTSWEAR, INC., Los Angeles, Calif. Filed May 8, 1939.

Rogue

For Shirts for Men and Women, Slack Suits, Pajamas, and Sleep Coats.
Claims use since May, 1938.

Ser. No. 419,425. HUFFMAN FULL FASHIONED MILLS, INC., Morganton, N. C. Filed May 15, 1939.

MIMOSA

For Hosiery.
Claims use since Apr. 14, 1939.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 415,598. KAYLON, INC., New York, N. Y. Filed Feb. 4, 1939.

GIVLASTIC

For Narrow Elastic Fabrics.
Claims use since September, 1938.

Ser. No. 417,023. LITTLE CLOVER CO., Highland Park, Ill. Filed Mar. 13, 1939.

Little Clover

For Thread Holding and Cutting Devices in the Nature of Attachments to Ordinary Spools of Sewing Thread.
Claims use since February, 1939.

Ser. No. 418,714. GUST CORPORATION, Chicago, Ill. Filed Apr. 26, 1939.

LAZEE LACERS

No claim is made to the word "Lacers" apart from the mark.
For Shoe Laces.
Claims use since Apr. 3, 1939.

CLASS 41

Canes, Parasols, and Umbrellas

Ser. No. 418,767. LOUIS H. COHEN, New York, N. Y. Filed Apr. 27, 1939.

WORLD SQUARE

For Umbrellas and Parasols.
Claims use since Apr. 25, 1939.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 406,111. BERNSON SILK MILLS, INC., New York, N. Y. Filed May 9, 1938.



For Piece Goods Made of Silk, Rayon, and Combinations Thereof.
Claims use since May 2, 1938.

Ser. No. 417,836. BURNEY EPSTEIN, INC., New York, N. Y. Filed Apr. 4, 1939.

"Doublets"

For Textile Fabrics in the Piece of Cotton, Rayon, Wool, Silk, and Combinations Thereof.
Claims use since Jan. 24, 1939.

Ser. No. 418,764. BERNHARD ULMANN CO. INC., New York, N. Y. Filed Apr. 27, 1939.

RICKROCHET

For Art Needlework Products—Namely, Scarfs for Furniture, Doilies, Pillow Covers, Ornamental Panels Used as Wall Decorations or for Similar Purposes.
Claims use since Feb. 24, 1939.

Ser. No. 419,471. BELDING HEMINWAY COMPANY, New York, N. Y. Filed May 16, 1939.



For Piece Goods of Silk, Cotton and Silk, Silk and Wool, and Rayon.
Claims use since 1901.

CLASS 43

Thread and Yarn

Ser. No. 419,006. BERNHARD ULMANN CO. INC., New York, N. Y. Filed May 3, 1939.

KWILTEE

For Hand Knitting Yarns.
Claims use since Mar. 9, 1939.

Ser. No. 419,016. FLEISHER YARNS, INC., New York, N. Y. Filed May 3, 1939.

HEATHGLEN

For Hand Knitting Yarns.
Claims use since Apr. 26, 1939.

Ser. No. 419,054. BERNHARD ULMANN CO. INC., New York, N. Y. Filed May 3, 1939.

TWEEDMOOR

For Hand Knitting Yarns.
Claims use since Apr. 25, 1939.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 414,801. OSKAR SCHAEFER, Jersey City, N. J. Filed Jan. 13, 1939.

Dr Schaefer. OXSILIT

The facsimile signature is that of the applicant.
For Translucent Silicate Oxyphosphate Filling for Teeth.
Claims use since January, 1936.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 415,413. THE OROGOLD CO., Dallas, Tex. Filed Jan. 30, 1939.

OROGOLD

For Nonalcoholic, Maltless Syrups for Beverage Purposes—Namely, Grape, Orange, Lemon, Lime, Strawberry, Chocolate, and Peach.
Claims use since June 10, 1938.

Ser. No. 416,100. THE JULEP COMPANY, Chicago, Ill. Filed Feb. 16, 1939.

Howel's

The mark consists of the surname, in the possessive form, of Clayton James Howel in his own handwriting.
For Nonalcoholic Maltless Beverages, Soda Fountain Syrups, Bottlers Flavors, and Concentrates.
Claims use since June 1, 1912.

Ser. No. 416,942. A/S HANSA BRYGGERI, Bergen, Norway. Filed Mar. 11, 1939.

Sonja SELTERS
HANSA BRYGGERI, BERGEN
NORWAY

The word "Selters", "Bergen", and "Norway" are disclaimed apart from the mark. The drawing is lined for red and blue.
For Nonalcoholic, Noncereal, Maltless Beverages, Sold as Soft Drinks, and Syrups and Extracts for Making the Same.
Claims use since Dec. 1, 1938.

Ser. No. 419,009. EDWARD BROUGH, doing business as Brough Bottlers Supply Company, Cleveland, Ohio. Filed May 3, 1939.

Tune-Up

For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Oct. 5, 1936.

Ser. No. 419,297. FEIGENSON BROS. CO., INC., Detroit, Mich. Filed May 11, 1939.

Faygo

For Bottles of Flavored and Unflavored Maltless Nonalcoholic Carbonated Beverages Such as Ginger Ale, Orange Beverage, Lime Rickey, Sparkling Water, Lemon Beverage, Root Beer, Cherry Beverage, Strawberry Beverage, Grape Beverage, Cream Soda, and the Like.
Claims use since Jan. 1, 1919.

Ser. No. 419,797. DEWEY BEVERAGES, INC., Alexandria, Va. Filed May 25, 1939.

CHIRP

For Soft Drinks or a Variety of Soft Drinks.
Claims use since May 10, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 390,379. EDWARD D. PALMER, Portland, Oreg. Filed Mar. 22, 1937.

PALMER'S



The drawing is lined for red and black. The facsimile signature is that of the applicant, E. D. Palmer. The surname "Palmer's" is disclaimed apart from the mark.
For Chili.
Claims use since January, 1928.

Ser. No. 406,566. J. SALEMI, doing business as J. Salemi Food Products Co. (Not Inc.), Chicago, Ill. Filed May 20, 1938.



The portrait is fanciful.
For Salad Oil Composed of Vegetable and Olive Oil.
Claims use since Apr. 19, 1938.

Ser. No. 412,323. W. I. ALLEN, doing business as Associated Industries, Fort Myers, Fla. Filed Nov. 3, 1938.

CRIMSON TIDE

For Canned Pimentos and Canned Vegetables.
Claims use since July 28, 1936.

Ser. No. 414,382. WM. WRIGLEY JR. COMPANY, Chicago, Ill. Filed Dec. 30, 1938.

SPEAR

For Chewing Gum.
Claims use since Jan. 8, 1938.

Ser. No. 414,741. THE INTERNATIONAL UNION OF UNITED BREWERY, FLOUR, CEREAL AND SOFT DRINK WORKERS OF AMERICA, Cincinnati, Ohio. Filed Jan. 12, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.



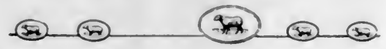
For Yeast, Vinegar, Malt, and Barley.
Claims use since October, 1896.

Ser. No. 414,895. SAFEWAY STORES, INC., doing business as General Food Products Co., Vernon and Oakland, Calif. Filed Jan. 16, 1939.

SUGAR BELLE

For Canned Vegetables.
Claims use since Oct. 6, 1938.

Ser. No. 415,246. BERNARD M. DOUGLAS, New York, N. Y. Filed Jan. 26, 1939.



For Roquefort Cheese.
Claims use since December, 1937.

Ser. No. 415,405. THE B. MANISCHEWITZ COMPANY, Jersey City, N. J., and Cincinnati, Ohio. Filed Jan. 30, 1939.

TAM
TAM

For Crackers or Biscuits.
Claims use since Jan. 23, 1939.

Ser. No. 415,507. GILLETT CANNING COMPANY, Gillett, Wis. Filed Feb. 2, 1939.

GREEN ACRE

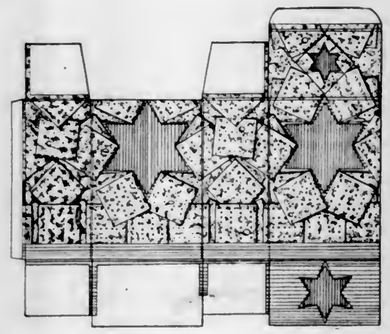
For Canned Vegetables.
Claims use since Sept. 23, 1936.

Ser. No. 415,601. THE B. MANISCHEWITZ COMPANY, Jersey City, N. J., and Cincinnati, Ohio. Filed Feb. 4, 1939.

טעם
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The Hebrew words mean "Taste".
For Crackers or Biscuits.
Claims use since Jan. 23, 1939.

Ser. No. 415,602. THE B. MANISCHEWITZ COMPANY, Jersey City, N. J., and Cincinnati, Ohio. Filed Feb. 4, 1939.



The drawing is lined for blue and red. The representation of the carton and of the goods is disclaimed except as shown.
For Crackers or Biscuits.
Claims use since Jan. 23, 1939.

Ser. No. 416,149. LANGENDORF UNITED BAKERIES, INC., San Francisco, Calif. Filed Feb. 17, 1939.

Wheato-Nuts

For Prepared Breakfast Cereal Food.
Claims use since Jan. 30, 1939.

Ser. No. 416,428. THE B. MANISCHEWITZ COMPANY, Jersey City, N. J., and Cincinnati, Ohio. Filed Feb. 25, 1939.



Applicant is the owner of the following registrations: Nos. 113,272 of October 10, 1916; 181,333 of March 18, 1924; 181,334, of March 18, 1924. The Hebrew words mean "The Aristocrat of the Family". The drawing is lined for blue.

For Crackers or Biscuits.
Claims use since Jan. 23, 1939.

Ser. No. 416,731. J. HUNGERFORD SMITH CO., Rochester, N. Y. Filed Mar. 6, 1939.

BURGUNDY

For Processed Cherries.
Claims use since February, 1937.

Ser. No. 417,131. LOY MOORE, doing business as General Chicks, Rich Hill, Mo. Filed Mar. 16, 1939.

GENERAL CHICKS

No claim is made to the word "Chicks" apart from the mark.
For Live Baby Chicks and Poultry.
Claims use since Dec. 1, 1937.

Ser. No. 417,960. THE FRANKLIN COFFEE COMPANY, Columbus, Ohio. Filed Apr. 7, 1939.

NUT-CHEW SPREAD

No claim is made for the words "Nut" and "Spread" apart from the mark. The drawing is lined for red and gold.

For Food Product Consisting of Ground Peanuts and Cashew Nuts.
Claims use since June 30, 1938.

Ser. No. 418,168. PRATT FOOD COMPANY, Philadelphia, Pa. Filed Apr. 12, 1939.

NAT-UR-WAY

For Horse, Cow, Sheep, Hog, Dog, and Poultry Feeds.
Claims use since Mar. 1, 1938.

Ser. No. 418,325. BALLARD & BALLARD COMPANY, doing business as Pioneer Mills, Louisville, Ky. Filed Apr. 17, 1939.

BURGUNDY ROSE

For Flour, Including Plain Wheat and Self-Rising Flour.
Claims use since Apr. 1, 1939.

Ser. No. 418,559. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Filed Apr. 22, 1939.

VIAMIN

For Biscuits.
Claims use since Mar. 28, 1939.

Ser. No. 418,717. M & R DIETETIC LABORATORIES, INC., Columbus, Ohio. Filed Apr. 26, 1939.

TEN - B - LOW

For Condensed Milk Preparation for Use in Making Ice Cream and Frozen Desserts.
Claims use since Apr. 19, 1939.

Ser. No. 418,747. W. F. SCHRAFFT & SONS CORPORATION, Boston, Mass. Filed Apr. 26, 1939.

BRAVO

For Chocolate Coated Candy Bars.
Claims use since Apr. 20, 1939.

Ser. No. 418,853. JOHN SEXTON & CO., Chicago, Ill. Filed Apr. 28, 1939.



For Canned Fruits and Vegetables, Canned Berries, Canned Lima Beans with Pork, Canned Tomato Puree, Canned Apple Sauce, Canned Fish, Olives, and Canned Skimmed Milk.
Claims use since Apr. 13, 1937.

Ser. No. 419,074. SIDNEY DAVIDSON, Forest Hills, N. Y. Filed May 4, 1939.



For Concentrated Soup for Dogs, Puppies, Cats, and Kittens.
Claims use since Apr. 26, 1939.

Ser. No. 419,158. H. D. RODDENBERRY, Santa Maria, Calif. Filed May 6, 1939.

PLEDGE

For Fresh Vegetables.
Claims use since Feb. 13, 1939.

Ser. No. 419,203. HIRAM WALKER & SONS INC., Peoria, Ill. Filed May 8, 1939.

STIMUFLAV

For Dried Concentrate from Distillers' Spent Grains for Use as an Ingredient of Food Such as Cattle and Poultry Feed.
Claims use since Mar. 21, 1939.

Ser. No. 419,204. HIRAM WALKER & SONS INC., Peoria, Ill. Filed May 8, 1939.

HI-FLA-VIM

For Dried Concentrate from Distillers' Spent Grains for Use as an Ingredient of Food Such as Cattle and Poultry Feed.
Claims use since Mar. 21, 1939.

CLASS 48

Malt Beverages and Liquors

Ser. No. 407,919. THE SCHOENLING BREWING COMPANY, Cincinnati, Ohio. Filed June 25, 1938.



TOP-HAT

For Beer.
Claims use since Jan. 31, 1938.

Ser. No. 416,284. COLUMBIA BREWING COMPANY, St. Louis, Mo. Filed Feb. 21, 1939.





No claim is made to the words "Nothing Finer Out of a Bottle", "Brau", and "Beer" apart from the mark.
For Beer.
Claims use since Jan. 12, 1939.

Ser. No. 416,376. HARVARD BREWING CO., Lowell, Mass. Filed Feb. 24, 1939.



No claim is made to the word "Flavor" apart from the mark.
For Ale, Beer, Porter, and Other Malt Beverages.
Claims use since Dec. 19, 1938.

Ser. No. 418,754. TERRE HAUTE BREWING COMPANY, INC., Terre Haute, Ind. Filed Apr. 26, 1939.

Champagne Velvet
Brand
Gold Label

Applicant disclaims the word "Brand" apart from the mark.
For Beer.
Claims use since June, 1937.

Ser. No. 419,216. PETER BARMANN BREWERY, INC., Kingston, N. Y. Filed May 9, 1939.



The words "Light Beer" apart from the mark are disclaimed.
For Beer and Ale.
Claims use since Jan. 1, 1937.

Ser. No. 419,255. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Filed May 10, 1939.



Applicant is owner of Trade-Mark Reg. No. 334,017.
For Beer.
Claims use since May 2, 1939.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 419,392. PARAMOUNT DISTILLING CORPORATION, Chicago, Ill. Filed May 13, 1939.

544 BRAND

The word "Brand" is disclaimed.
For Whiskey.
Claims use since Feb. 14, 1938.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 416,759. ATLAS POWDER COMPANY, Wilmington, Del. Filed Mar. 7, 1939.

ZABUCK

For Flock Coated Paper or Fabric Commonly Known as Leather Cloth.
Claims use since Feb. 8, 1939.

Ser. No. 417,363. FULTON BAG & COTTON MILLS, Atlanta, Ga. Filed Mar. 22, 1939.

Fulco Two-Tone

The words "Two-Tone" are disclaimed apart from the mark.
For Furniture Pads for Use with Moving and Delivery Vans.
Claims use since Dec. 10, 1938.

Ser. No. 417,952. ATLAS POWDER COMPANY, Wilmington, Del. Filed Apr. 7, 1939.

CHARMOSETTE

For Flock Coated Paper or Fabric Commonly Known as Leather Cloth.
Claims use since Feb. 23, 1939.

Ser. No. 418,612. JOHN R. WALD COMPANY, Huntingdon, Pa. Filed Apr. 22, 1939.

Lifeline

For Materials Sold as a Unit Including Paint and Small Light Reflecting Materials such as Minute Glass Spheres for Use in Connection with the Fabrication of Highway Markers, Other Markers, and the Like.
Claims use since Sept. 7, 1938.

Ser. No. 418,766. CHICAGO CURTAIN STRETCHER COMPANY, Chicago, Ill. Filed Apr. 27, 1939.

HOSTESS

For Curtain Stretchers.
Claims use since Apr. 12, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 11, 1939

368,961. ORNAMENTAL BOXES AND TRAYS FOR TOBACCO AND CIGARETTES, AND ASH TRAYS, OF BASE METAL. KENSINGTON, INCORPORATED, New Kensington, Pa.
Filed January 28, 1936. Serial No. 374,198. PUBLISHED MAY 2, 1939. Class 8.

368,962. BICYCLES. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed August 4, 1936. Serial No. 381,804. PUBLISHED OCTOBER 5, 1937. Class 19.

368,963. BOTTLE CLOSURES. ANCHOR CAP & CLOSURE CORPORATION, New York and Long Island City, N. Y.
Filed August 12, 1936. Serial No. 382,081. PUBLISHED MAY 2, 1939. Class 50.

368,964. ELECTRIC HEADLIGHT AND SIGNAL LAMPS FOR STREET AND RAILWAY CROSSINGS, FIRE TRUCKS, EMERGENCY TRUCKS AND AUTOMOBILES, RAILWAY ENGINES AND CARS, STREET CARS, AND AMBULANCES. MARS SIGNAL LIGHT CO., Oak Park, Ill.
Filed November 2, 1936. Serial No. 385,052. PUBLISHED MAY 2, 1939. Class 21.

368,965. MATRIX OR DRY MAT USED IN STEREOTYPING AND ELECTROPLATING. WILLIAM J. SULLIVAN, doing business as Flexideal Dry Mat Co., New York, N. Y.
Filed June 24, 1937. Serial No. 394,474. PUBLISHED JANUARY 4, 1938. Class 50.

368,966. MATRIX OR DRY MAT USED IN STEREOTYPING AND ELECTROPLATING. WILLIAM J. SULLIVAN, doing business as Flexideal Dry Mat Co., New York, N. Y.
Filed June 24, 1937. Serial No. 394,475. PUBLISHED JANUARY 4, 1938. Class 50.

368,967. CANNED GRAPEFRUIT, CANNED PEAS, CANNED TOMATO JUICE, AND FRUIT JUICES FOR FOOD PURPOSES. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla.
Filed October 11, 1937. Serial No. 398,351. PUBLISHED MAY 2, 1939. Class 46.

368,968. CANNED FRUITS AND VEGETABLES. W. A. [illegible]DER Co., Norristown, Pa.
Filed December 10, 1937. Serial No. 400,678. PUBLISHED MAY 2, 1939. Class 46.

368,969. TISSUE SHEETS AND PAPER TOWELS. FEDERATED MILLS, INC., New York, N. Y.
Filed January 25, 1938. Serial No. 402,296. PUBLISHED MAY 2, 1939. Class 37.

368,970. PRINTING MATS, ELECTROTYPES, STEREOTYPES, AND PHOTOENGRAVINGS. WINFIELD E. CLINE, doing business as Cline Advertising Service, Boise, Idaho.
Filed February 4, 1938. Serial No. 402,678. PUBLISHED MAY 2, 1939. Class 50.

368,971. COLORED GLASS TILES. SEMON BACHE & COMPANY, New York, N. Y.
Filed February 16, 1938. Serial No. 403,094. PUBLISHED APRIL 25, 1939. Class 12.

368,972. PIECE GOODS, COMPRISING AT THE PRESENT TIME DRAPERY SATEENS, DRAPERY BURLAP, VARIOUS FABRICS USED IN THE MANUFACTURE OF CORSETS AND BRASSIÈRES (COMPRISING SPECIALLY FINISHED SATEENS, DRILLS, BATISTES, NAINSOOKS, AND MARQUISETTES), INTERLINING, AND NAINSOOK. O'HARA, LEVY & MAHON INC., New York, N. Y.
Filed March 1, 1938. Serial No. 403,556. PUBLISHED MAY 2, 1939. Class 42.

368,973. ELECTRIC HAIR DRIERS. THE MARTIN BROTHERS ELECTRIC CO., Cleveland, Ohio.
Filed March 21, 1938. Serial No. 404,317. PUBLISHED MAY 2, 1939. Class 44.

368,974. WHEAT FLOUR. THE MIDLAND FLOUR MILLING COMPANY, doing business as Newton Milling & Elevator Co., Kansas City, Mo.
Filed April 21, 1938. Serial No. 405,562. PUBLISHED MAY 2, 1939. Class 46.

368,975. PUBLICATION PUBLISHED SEMI-ANNUALLY, THE SAME BEING A COMPILATION OF APPROVED, ACCEPTED, AND GRADED BOOKS. J. W. WILCOX & FOLLETT CO., Chicago, Ill.
Filed April 29, 1938. Serial No. 405,861. PUBLISHED MAY 2, 1939. Class 38.

368,976. BARK AND BARK EXTRACTS USED FOR TANNING PURPOSES. EAST AFRICAN TANNING EXTRACT COMPANY LIMITED, Nairobi, Kenya, Africa.
Filed May 23, 1938. Serial No. 406,617. PUBLISHED MAY 2, 1939. Class 1.

368,977. COAL. THE PITTSBURGH & OHIO MINING COMPANY, Cleveland, Ohio.
Filed May 27, 1938. Serial No. 406,825. PUBLISHED MAY 2, 1939. Class 1.

368,978. FLAVORINGS FOR ICE CREAMS. WELCH FRUIT PRODUCTS CO., Chicago, Ill.
Filed July 1, 1938. Serial No. 408,142. PUBLISHED MAY 2, 1939. Class 46.

368,979. PACKAGED SAUSAGE AND CANNED HAM. TRUMP PRODUCTS CORPORATION, New York, N. Y.
Filed July 28, 1938. Serial No. 408,982. PUBLISHED MAY 2, 1939. Class 46.

368,980. FLUID FUEL BURNERS. WEATHERALL ENGINEERS INCORPORATED, Providence, R. I.
Filed August 13, 1938. Serial No. 409,600. PUBLISHED MAY 2, 1939. Class 34.

368,981. WRITING PAPERS—NAMELY, NOTEBOOKS, NOTEBOOK FILLERS, TABLETS, COMPOSITION BOOKS, AND REAM PAPERS. ST. REGIS PAPER COMPANY, New York, N. Y.
Filed August 15, 1938. Serial No. 409,630. PUBLISHED MAY 2, 1939. Class 37.

368,982. FRESH CITRUS FRUIT. MCDERMONT FRUIT COMPANY, Riverside, Calif.
Filed September 12, 1938. Serial No. 410,471. PUBLISHED NOVEMBER 15, 1938. Class 46.

368,983. PAINTS, SUCH AS HOUSE AND BARN PAINTS. MICHAEL F. MORAN, doing business as The Moran Paint Co., Dayton, Ohio.
Filed September 21, 1938. Serial No. 410,842. PUBLISHED MAY 2, 1939. Class 16.

368,984. LEAFLETS RELATING TO THE SUBJECT OF SALESMANSHIP PUBLISHED FROM TIME TO TIME. CHARLES BENNETT, doing business as American Efficiency Bureau, St. Louis, Mo.
Filed September 28, 1938. Serial No. 411,113. PUBLISHED APRIL 25, 1939. Class 38.

368,985. PENCILS, BLANK FORMS, BLANK BOOKS, WRITING CASES, FILING CASES AND BOOK SHELF FILLERS AND MARKERS SOLD AS UNITS, AND IN MODIFIED FORMS ON THESE GOODS WHEN SOLD INDIVIDUALLY. WILLIAM MORROW & COMPANY, INC., New York, N. Y.
Filed October 5, 1938. Serial No. 411,304. PUBLISHED MAY 2, 1939. Class 37.

368,986. FANS AND BLOWERS, HEATING, VENTILATING, AND COOLING AND AIR CONDITIONING UNITS. TRADE-WIND MOTORFANS, INC., Los Angeles, Calif.
Filed October 24, 1938. Serial No. 412,013. PUBLISHED MAY 2, 1939. Class 34.

368,987. FANS AND BLOWERS FOR HEATING, VENTILATING, AND COOLING AND AIR CONDITIONING UNITS. TRADE-WIND MOTORFANS, INC., Los Angeles, Calif.
Filed October 24, 1938. Serial No. 412,014. PUBLISHED MAY 2, 1939. Class 34.

368,988. MACHINE STAPLES. PARROT SPEED FASTENER CORPORATION, New York and Long Island City, N. Y.
Filed October 26, 1938. Serial No. 412,080. PUBLISHED MAY 2, 1939. Class 13.

368,989. LUMBER, WOODWORK, PANELING, FLOORING, AND OTHER STANDARD SAW AND PLANING MILL PRODUCTS. WEST COAST LUMBERMEN'S ASSOCIATION, Seattle, Wash.
Filed November 7, 1938. Serial No. 412,479. PUBLISHED APRIL 25, 1939. Class 12.

368,990. LUMBER, WOODWORK, PANELING, FLOORING, AND OTHER STANDARD SAW AND PLANING MILL PRODUCTS. WEST COAST LUMBERMEN'S ASSOCIATION, Seattle, Wash.
Filed November 7, 1938. Serial No. 412,480. PUBLISHED APRIL 25, 1939. Class 12.

368,991. CANNED BEANS IN GLASS POTS. BURNHAM & MORRILL COMPANY, Portland, Maine.
Filed November 10, 1938. Serial No. 412,590. PUBLISHED MAY 2, 1939. Class 46.

368,992. KAPOK, KAPOK SEEDS, AND RUBBER. N. V. CULTUUR MAATSCHAPPY SILOEWOK SAWANGAN, Samarang, West Java, Netherland India.
Filed November 12, 1938. Serial No. 412,657. PUBLISHED MAY 2, 1939. Class 1.

368,993. COCOA AND COFFEE. N. V. CULTUUR MAATSCHAPPY SILOEWOK SAWANGAN, Samarang, West Java, Netherland India.
Filed November 12, 1938. Serial No. 412,658. PUBLISHED MAY 2, 1939. Class 46.

368,994. BEER AND ALE. GREENWAY BREWERY CO., INC., Syracuse, N. Y.
Filed November 19, 1938. Serial No. 412,969. PUBLISHED MAY 2, 1939. Class 48.

368,995. TRAILERS. JOE W. HART, Cleveland, Ohio.
Filed November 28, 1938. Serial No. 413,208. PUBLISHED MAY 2, 1939. Class 19.

368,996. PERIODICAL PUBLICATIONS CONSISTING OF WEEKLY LETTERS RELATIVE TO INTERPRETATION OF STOCK MARKET ACTIVITIES. FINANCIAL SUPERVISION, INCORPORATED, New York, N. Y.
Filed November 29, 1938. Serial No. 413,265. PUBLISHED MAY 2, 1939. Class 38.

368,997. DRAFT REGULATING DAMPER FOR BOILERS. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y.
Filed December 3, 1938. Serial No. 413,440. PUBLISHED MAY 2, 1939. Class 34.

368,998. DRAFT REGULATING BAFFLE FOR BOILERS. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y.
Filed December 3, 1938. Serial No. 413,442. PUBLISHED MAY 2, 1939. Class 34.

368,999. NEWS FEATURE OR COLUMN OF A PERIODICAL PUBLICATION. JOHN A. DUNCAN, doing business as Jad's Service, Cleveland, Ohio.
Filed December 5, 1938. Serial No. 413,471. PUBLISHED APRIL 25, 1939. Class 38.

369,000. BOILERS. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y.
Filed December 5, 1938. Serial No. 413,501. PUBLISHED MAY 2, 1939. Class 34.

369,001. BOILERS. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y.
Filed December 5, 1938. Serial No. 413,502. PUBLISHED MAY 2, 1939. Class 34.

369,002. BOILERS. FITZGIBBONS BOILER COMPANY, INC., New York, N. Y.
Filed December 5, 1938. Serial No. 413,504. PUBLISHED MAY 2, 1939. Class 34.

369,003. CANNED SARDINES AND SALMON, AND BOTTLED MARINATED HERRING AND SPICED GAFFELBITAR. BENSON FISH COMPANY, Chicago, Ill.
Filed December 9, 1938. Serial No. 413,615. PUBLISHED MAY 2, 1939. Class 46.

369,004. CORDUROY WITH A VELVET FINISH. EISENBERG & WEINSTEIN, INC., New York, N. Y.
Filed December 19, 1938. Serial No. 413,984. PUBLISHED FEBRUARY 21, 1939. Class 42.

369,005. BEE SMOKERS. A. G. WOODMAN COMPANY, Grand Rapids, Mich.
Filed December 21, 1938. Serial No. 414,090. PUBLISHED MAY 2, 1939. Class 50.

369,006. THERMAL INSULATING SHEET MATERIALS AND CORROSION RESISTANT COVERINGS IN SHEET FORM. N. V. HOLLANDSCHE DRAAD- EN KABELFABRIEK, Amsterdam, Netherlands.
Filed December 29, 1938. Serial No. 414,305. PUBLISHED MAY 2, 1939. Class 12.

369,007. LOW DENSITY FIBER COMPOSITION BOARD BLOCKS AND THE LIKE. THE INSULITE COMPANY, Minneapolis, Minn.
Filed December 29, 1938. Serial No. 414,320. PUBLISHED APRIL 25, 1939. Class 12.

369,008. BITUMINOUS CEMENTS FOR METAL CLAD INSULATING AND WATERPROOFING MATERIAL FOR BUILDING PURPOSES. VEREINIOTE DEUTSCHE METALLWERKE AKTIENGESELLSCHAFT, Frankfort-on-the-Main-Heddernheim, Germany.
Filed January 5, 1939. Serial No. 414,544. PUBLISHED APRIL 25, 1939. Class 12.

369,009. PORCELAIN ENAMEL FRIT AND OPACIFIERS FOR PORCELAIN ENAMEL. FERRO ENAMEL CORPORATION, Cleveland, Ohio.
Filed January 6, 1939. Serial No. 414,559. PUBLISHED MAY 2, 1939. Class 1.

369,010. COFFEE, TEA, AND SPICES. FRANKLIN LYMAN, doing business as F. Lyman Coffee & Tea Co., New York, N. Y.
Filed January 6, 1939. Serial No. 414,572. PUBLISHED MAY 2, 1939. Class 46.

369,011. ADVERTISING PAMPHLETS ISSUED FROM TIME TO TIME AND SOLD TO THE TRADE AS SUCH. CHECKMASTER PLAN, INC., New York, N. Y.
Filed January 11, 1939. Serial No. 414,686. PUBLISHED MAY 2, 1939. Class 38.

369,012. HOUSE PAINT. ALUMINUM COMPANY OF AMERICA, Pittsburgh, Pa.
Filed January 13, 1939. Serial No. 414,764. PUBLISHED MAY 2, 1939. Class 16.

369,013. COATED FIBER BOARD WHOSE COATING SIMULATES MASONRY CONSTRUCTION. THE INSULITE COMPANY, Minneapolis, Minn.
Filed January 13, 1939. Serial No. 414,809. PUBLISHED APRIL 25, 1939. Class 12.

369,014. CANNED FRUITS, CANNED VEGETABLES, CANNED FRUIT JUICE FOR FOOD PURPOSES, CANNED CORN, ETC. NASH-FINCH COMPANY, Minneapolis, Minn.
Filed January 16, 1939. Serial No. 414,883. PUBLISHED MAY 2, 1939. Class 46.

369,015. PLAIN AND ENAMELED METAL TILE, METAL PARTITIONS. ALLIED CONSTRUCTION CO., INC., Newark, N. J.
Filed January 23, 1939. Serial No. 415,098. PUBLISHED APRIL 25, 1939. Class 12.

369,016. CURTAINS, DRAPES, SPREADS, AND CURTAIN AND DRAPERY PIECE GOODS MADE FROM COTTON, RAYON, SILK, SATIN, LINEN, AND DAMASK. MURRAY DRUCK, New York, N. Y.
Filed January 23, 1939. Serial No. 415,109. PUBLISHED MAY 2, 1939. Class 42.

369,017. CANNED SOUPS AND VEGETABLES. HANOVER FOOD PRODUCTS CO., INC., Baltimore, Md.
Filed January 27, 1939. Serial No. 415,276. PUBLISHED MAY 2, 1939. Class 46.

369,018. DEVICES FOR DISPLAYING IN CO-RELATION, SAMPLES OR REPRESENTATIONS OF HOME FURNISHINGS, SUCH AS FLOOR-COVERINGS, WALL-COVERINGS, DRAPERIES, UPHOLSTERY, FURNITURE, AND LIGHTING UNITS. JAMES R. CONNOR, New York, N. Y.
Filed January 27, 1939. Serial No. 415,282. PUBLISHED MAY 2, 1939. Class 50.

369,019. PAPETERIES, BOND, LEDGER, BOOK, ENVELOPE, WRITING, SAFETY CHECK, AND COATED PAPERS. INTERNATIONAL BROTHERHOOD OF PAPER MAKERS, Albany, N. Y.
Filed January 27, 1939. Serial No. 415,292. PUBLISHED MAY 2, 1939. Class 37.

369,020. OIL AND GAS BURNING FURNACE UNITS. CENTURY ENGINEERING CORPORATION, Cedar Rapids, Iowa.
Filed January 28, 1939. Serial No. 415,323. PUBLISHED MAY 2, 1939. Class 34.

369,021. FEATURE SECTION APPEARING IN PERIODICAL PUBLICATIONS. MAUDE KING ALEXANDER, Winona, Minn.
Filed January 30, 1939. Serial No. 415,369. PUBLISHED MAY 2, 1939. Class 38.

369,022. SOUND ABSORBING BOARD AND BLOCKS, ASBESTOS SIDING, WATERPROOF FIBER BOARD, HOT PRESSED BOARDS, WATERPROOF AND TEMPERED, ETC. THE INSULITE COMPANY, Minneapolis, Minn.
Filed January 30, 1939. Serial No. 415,392. PUBLISHED APRIL 25, 1939. Class 12.

369,023. REFRIGERATED LOCKER UNITS. WILLIAM MCKINLEY BAIRD, Chicago, Ill.
Filed February 2, 1939. Serial No. 415,492. PUBLISHED MAY 2, 1939. Class 31.

369,024. LIQUID WAX-CONTAINING COMPOSITION ADAPTED FOR POLISHING AND CLEANING FLOORS, VARIOUS FINISHED SURFACES, PARTICULARLY AUTOMOBILE BODIES AND THE LIKE. BENNETT INCORPORATED, Cambridge, Mass.
Filed February 3, 1939. Serial No. 415,539. PUBLISHED APRIL 11, 1939. Class 16.

369,025. FOOD WARMERS, COVERS FOR FOOD WARMERS, AND TOP PLATES THEREFOR. DUKE MANUFACTURING CO., St. Louis, Mo.
Filed February 4, 1939. Serial No. 415,587. PUBLISHED MAY 2, 1939. Class 13.

369,026. PUBLICATION PUBLISHED ANNUALLY AND DEVOTED PRIMARILY TO NEWS, FACTS, DATA, EQUIPMENT, AND ACCESSORIES IN CONNECTION WITH THE SWIMMING POOL INDUSTRY. HOFFMAN-HARRIS, INC., New York, N. Y.
Filed February 6, 1939. Serial No. 415,648. PUBLISHED MAY 2, 1939. Class 38.

369,027. SOAP POWDER FOR BATHING, WASHING, AND CLEANING PURPOSES, LAUNDRY SOAPS, SOAP FLAKES, HAND SOAPS, TOILET SOAPS, SOAP PASTES, AND SHAMPOO SOAPS. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J.
Filed February 7, 1939. Serial No. 415,718. PUBLISHED MAY 2, 1939. Class 4.

369,028. CIGARETTES. GEORGE C. DAWSON, Louisville, Ky., assignor to Madison Tobacco Company, Inc., Wilmington, Del., a corporation of Delaware.
Filed February 6, 1939. Serial No. 415,685. PUBLISHED MAY 2, 1939. Class 17.

369,029. SOAP POWDER FOR BATHING, WASHING, AND CLEANING PURPOSES, LAUNDRY SOAPS, SOAP FLAKES, HAND SOAPS, TOILET SOAPS, SOAP PASTES, AND SHAMPOO SOAPS. LIGHTFOOT SCHULTZ CO., New York, N. Y., and Hoboken, N. J.
Filed February 7, 1939. Serial No. 415,720. PUBLISHED MAY 2, 1939. Class 4.

369,030. COAL. PICKANDS, MATHER & COMPANY, Cleveland, Ohio.
Filed February 8, 1939. Serial No. 415,794. PUBLISHED MAY 2, 1939. Class 1.

369,031. OLEOMARGARINE. THE CHURNGOLD CORPORATION, Cincinnati, Ohio.
Filed February 9, 1939. Serial No. 415,834. PUBLISHED MAY 2, 1939. Class 46.

369,032. SCRIPTS FOR A SERIES OF COMMERCIAL RADIO BROADCASTS SOLD AS A PUBLICATION IN TRADE. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed February 9, 1939. Serial No. 415,835. PUBLISHED MAY 2, 1939. Class 38.

369,033. SOUVENIR POST CARDS. FRANCIS C. SMITH, Allen, Okla.
Filed February 9, 1939. Serial No. 415,864. PUBLISHED APRIL 25, 1939. Class 38.

369,034. DOG FOOD. BONDS—17 DOG FOOD COMPANY, Los Angeles, Calif.
Filed February 10, 1939. Serial No. 415,872. PUBLISHED MAY 2, 1939. Class 46.

369,035. WAX PREPARATIONS FOR POLISHING FLOOR SURFACES OF ALL KINDS. CONGOLEUM-NAIRN INC., Kearny, N. J.
Filed February 10, 1939. Serial No. 415,877. PUBLISHED MAY 2, 1939. Class 16.

369,036. COFFEE. ALBERT EHLERS, INC., Brooklyn, N. Y.
Filed February 10, 1939. Serial No. 415,886. PUBLISHED MAY 2, 1939. Class 46.

369,037. SMOKING TOBACCO. SAMUEL SHUBS, doing business as Shubs Tobacco Company, New Haven, Conn.
Filed February 10, 1939. Serial No. 415,919. PUBLISHED MAY 2, 1939. Class 17.

369,038. GOLF BAGS. SOUTHERN SADDLERY COMPANY, Chattanooga, Tenn.
Filed February 10, 1939. Serial No. 415,920. PUBLISHED MAY 2, 1939. Class 22.

369,039. MONTHLY BULLETIN. OCCUPATIONAL INDEX, INC., Frenchtown, N. J., and New York, N. Y.
Filed February 11, 1939. Serial No. 415,931. PUBLISHED MAY 2, 1939. Class 38.

369,040. QUARTERLY, ILLUSTRATED JOURNAL CONTAINING NEWS OF GENERAL INTEREST FOR THE MEDICAL PROFESSION. THE EQUITY PRESS, INC., New York, N. Y.
Filed February 11, 1939. Serial No. 415,939. PUBLISHED MAY 2, 1939. Class 38.

369,041. LOCKETS, JEWEL BOXES, CUFF LINKS, STERLING FLASK, SCARF PINS, LAVALLIÈRES, BROOCHES, BRACELETS, EARRINGS, TIE CLASPS, ETC. C. SCHEUER COMPANY, New York, N. Y.
Filed February 11, 1939. Serial No. 415,962. PUBLISHED MAY 2, 1939. Class 28.

369,042. PEARLS. SOL. E. WEINREICH, doing business as Weinreich Brothers Company, New York, N. Y.
Filed February 13, 1939. Serial No. 416,005. PUBLISHED APRIL 25, 1939. Class 28.

369,043. MONTHLY PUBLICATION. THE AMERICAN ASSOCIATION OF PORT AUTHORITIES, New Orleans, La.
Filed February 14, 1939. Serial No. 416,009. PUBLISHED APRIL 25, 1939. Class 38.

369,044. NEWSPAPER SECTION. NEW YORK EVENING JOURNAL, INC., New York, N. Y.
Filed February 16, 1939. Serial No. 416,109. PUBLISHED MAY 2, 1939. Class 38.

369,045. LIGHTING REFLECTORS AND SHADES FOR ELECTRIC LAMPS. SHAPIRO & ARONSON, INC., New York, N. Y.
Filed February 16, 1939. Serial No. 416,116. PUBLISHED MAY 2, 1939. Class 34.

369,046. DAILY NEWSPAPER PUBLISHED IN WASHINGTON, D. C. ELEANOR MEDILL PATTERSON, doing business as Times-Herald, Washington, D. C.
Filed February 17, 1939. Serial No. 416,158. PUBLISHED APRIL 25, 1939. Class 38.

369,047. WRITING, DRAWING, AND LETTERING PENS; FOUNTAIN PENS; FEEDS, CAPS, AND BARRELS THEREFOR; PENHOLDERS, MECHANICAL PENCILS, ERASING PEN, INKWELLS, DESK SETS, AND SPRING CLIPS. THE ESTERBROOK STEEL PEN MANUFACTURING COMPANY, Camden, N. J.
Filed February 18, 1939. Serial No. 416,184. PUBLISHED APRIL 25, 1939. Class 37.

369,048. ARTISTIC DRAWINGS FOR TEXTILE DESIGNS. ETHEL TRAPHAGEN LEIGH, doing business as Ethel Leigh Studio, New York, N. Y.
Filed February 18, 1939. Serial No. 416,194. PUBLISHED APRIL 25, 1939. Class 38.

369,049. BUTTER. J. J. MULLINS & Co., New York, N. Y.
Filed February 18, 1939. Serial No. 416,199. PUBLISHED MAY 2, 1939. Class 46.

369,050. COMIC DRAWINGS PUBLISHED IN A SERIES IN DAILY AND SUNDAY NEWSPAPERS. NEA SERVICE, INC., Cleveland, Ohio.
Filed February 18, 1939. Serial No. 416,200. PUBLISHED MAY 2, 1939. Class 38.

369,051. COMIC DRAWINGS PUBLISHED IN A SERIES IN DAILY AND SUNDAY NEWSPAPERS. NEA SERVICE, INC., Cleveland, Ohio.
Filed February 18, 1939. Serial No. 416,201. PUBLISHED APRIL 25, 1939. Class 38.

369,052. COMIC DRAWINGS PUBLISHED IN A SERIES IN DAILY AND SUNDAY NEWSPAPERS. NEA SERVICE, INC., Cleveland, Ohio.
Filed February 18, 1939. Serial No. 416,202. PUBLISHED APRIL 25, 1939. Class 38.

369,053. GAS STONES, GAS RANGES, GAS HEATERS, AND GAS BURNERS. THE FOLSOM COMPANY, Dallas, Tex.
Filed February 20, 1939. Serial No. 416,253. PUBLISHED MAY 2, 1939. Class 34.

369,054. SALTED NUTS. ELECTRICOOKER, INC., Newburyport, Mass.
Filed February 23, 1939. Serial No. 416,319. PUBLISHED MAY 2, 1939. Class 46.

369,055. BOOKS AND MAGAZINES. THE PERSONAL BOOK SHOP, INC., Boston, Mass.
Filed February 23, 1939. Serial No. 416,336. PUBLISHED MAY 2, 1939. Class 38.

369,056. POULTRY FEEDS, MILL FEEDS, DAIRY FEEDS, HORSE AND MULE FEEDS. SHAWNEE MILLING COMPANY, Shawnee, Okla.
Filed February 23, 1939. Serial No. 416,343. PUBLISHED MAY 2, 1939. Class 46.

369,057. SOAP. ANTOINE DE PARIS, INC., New York, N. Y.
Filed February 24, 1939. Serial No. 416,360. PUBLISHED MAY 2, 1939. Class 4.

369,058. WOOLEN AND WORSTED TEXTILE FABRICS IN THE PIECE. EDWIN & LOUIS BRY, INC., New York, N. Y.
Filed February 25, 1939. Serial No. 416,399. PUBLISHED MAY 2, 1939. Class 42.

369,059. REGULARLY ISSUED MONTHLY MAGAZINE. DIESEL ENGINES, INC., New York, N. Y.
Filed February 25, 1939. Serial No. 416,406. PUBLISHED APRIL 25, 1939. Class 38.

369,060. ACOUSTICAL SHEET MATERIAL. JOHNS-MANVILLE CORPORATION, New York, N. Y.
Filed February 25, 1939. Serial No. 416,423. PUBLISHED MAY 2, 1939. Class 12.

369,061. CORDUROY FABRICS IN THE PIECE. CROMPTON COMPANY, West Warwick, R. I.
Filed February 27, 1939. Serial No. 416,457. PUBLISHED MAY 2, 1939. Class 42.

369,062. NEWS COLUMN. ALLAN W. "BILL" WELLS, doing business as Wells Feature Syndicate, San Antonio, Tex.
Filed February 27, 1939. Serial No. 416,493. PUBLISHED MAY 2, 1939. Class 38.

369,063. SILVER PLATED FLATWARE AND CUTLERY. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass.
Filed March 1, 1939. Serial No. 416,579. PUBLISHED APRIL 25, 1939. Class 28.

369,064. FOOD SPECIALLY PREPARED FOR INFANT FEEDING. S. M. A. CORPORATION, Chicago, Ill.
Filed March 1, 1939. Serial No. 416,585. PUBLISHED MAY 2, 1939. Class 46.

369,065. ORANGE DRY SODA, CREAM SODA, GRAPE SODA, LEMON AND LIME SODA, FRUIT SODA, LIME RICKEY SODA, COFFEE SODA, ROOT BEER, ORANGE SODA. WARWICK CLUB GINGERALE CO., INC., West Warwick, R. I.
Filed March 1, 1939. Serial No. 416,590. PUBLISHED MAY 2, 1939. Class 45.

369,066. BLANKETS AND COTTON AND WOOL MIXTURES OF PIECE GOODS. W. S. LIBBEY COMPANY, Lewiston, Maine.
Filed March 2, 1939. Serial No. 416,612. PUBLISHED MAY 2, 1939. Class 42.

369,067. VENDING MACHINES AND COIN DEVICES THEREFOR. MALKIN-ILLION CORPORATION, Newark, N. J.
Filed March 2, 1939. Serial No. 416,613. PUBLISHED MAY 2, 1939. Class 23.

369,068. PAINT, VARNISH, AND LACQUER SOFTENER. LEE R. TIMMONS, doing business as Charles Paint Research Co., Kansas City, Mo.
Filed March 2, 1939. Serial No. 416,621. PUBLISHED MAY 2, 1939. Class 16.

369,069. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND FOR THE CONCENTRATES THEREOF. GRANDPA BRANDS COMPANY, Cincinnati, Ohio.
Filed March 1, 1939. Serial No. 416,631. PUBLISHED MAY 2, 1939. Class 45.

369,070. EMULSIFIED ASPHALT. ASPHALT PROCESS CORPORATION, New York, N. Y.
Filed March 3, 1939. Serial No. 416,638. PUBLISHED MAY 2, 1939. Class 12.

369,071. TRADE PERIODICAL. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind.
Filed March 6, 1939. Serial No. 416,741. PUBLISHED MAY 2, 1939. Class 38.

369,072. COATED ABRASIVES. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed March 9, 1939. Serial No. 416,831. PUBLISHED MAY 2, 1939. Class 4.

369,073. COATED ABRASIVES. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed March 9, 1939. Serial No. 416,835. PUBLISHED MAY 2, 1939. Class 4.

369,074. HOUSE ORGAN PUBLISHED FROM TIME TO TIME. ALLEGHENY LUDLUM STEEL CORPORATION, Brackenridge and Pittsburgh, Pa.
Filed March 11, 1939. Serial No. 416,937. PUBLISHED MAY 2, 1939. Class 38.

369,075. CANNED CITRUS JUICES FOR BEVERAGE PURPOSES. H. E. BUTT GROCERY COMPANY, Harlingen and Corpus Christi, Tex.
Filed March 11, 1939. Serial No. 416,946. PUBLISHED MAY 2, 1939. Class 45.

369,076. ZINC IN SLABS OR PIGS. UNITED STATES SMELTING REFINING AND MINING COMPANY, Portland, Maine, and Boston, Mass.
Filed March 11, 1939. Serial No. 416,976. PUBLISHED MAY 2, 1939. Class 14.

369,077. PATCHES FOR TIRES AND TUBES AND RUBBER SOLVENT USED THEREWITH. HYMAN E. ENGERT, doing business as Victor Patch Co., Chicago, Ill.
Filed March 18, 1939. Serial No. 417,206. PUBLISHED MAY 2, 1939. Class 35.

369,078. FRESH CITRUS FRUIT. SAN FERNANDO HEIGHTS LEMON ASSOCIATION, San Fernando, Calif.
Filed March 21, 1939. Serial No. 417,346. PUBLISHED MAY 2, 1939. Class 46.

369,079. CANDY. DE MET'S, INC., Chicago, Ill.
Filed March 22, 1939. Serial No. 417,361. PUBLISHED MAY 2, 1939. Class 46.

369,080. PISTON RINGS. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed March 25, 1939. Serial No. 417,510. PUBLISHED MAY 2, 1939. Class 35.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

369,081. (CLASS 37. PAPER AND STATIONERY.) AMERICAN TISSUE MILLS, Holyoke, Mass. Filed Dec. 29, 1937. Serial No. 401,326.

PERKINS

POLK-A-DOT

For Wrapping, Waxed, and Tissue Paper.
Claims use since June 1, 1937.

369,082. (CLASS 2. RECEPTACLES.) ROSSITER H. KELLOGG, doing business as Air-Tone, Columbus, Ohio. Filed Jan. 15, 1938. Serial No. 401,936.

AIR-TONE

For Odorizing Container-Dispenser for Attachment to Electric Fans.
Claims use since Oct. 1, 1935.

369,083. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Apr. 1, 1938. Serial No. 404,768.

SARANAC SIDES

For Leather.
Claims use since Feb. 19, 1938.

369,084. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) FRITZ LOEWENBERG, New York, N. Y. Filed May 20, 1938. Serial No. 406,555.

Electrocell

For Photosensitive Electricity Generating Devices for Measuring Instruments, Relays, and the Like.
Claims use since Nov. 30, 1937.

369,085. (CLASS 17. TOBACCO PRODUCTS.) LONDON HOUSE, LTD., New York, N. Y. Filed May 21, 1938. Serial No. 406,590.

London House

For Cigars, Smoking Tobacco, Chewing Tobacco, and Cigarettes.
Claims use since May 2, 1938.

369,086. (CLASS 45. BEVERAGES, NONALCOHOLIC.) HARTUNG BROTHERS, New York, N. Y. Filed May 28, 1938. Serial No. 406,864.

COLA FIZZ

For Non-Alcoholic, Maltless Beverages and Flavoring Syrups and Extracts Used in Connection with the Production of Such Beverages.
Claims use since Apr. 23, 1938.

369,087. (CLASS 37. PAPER AND STATIONERY.) ART METAL CONSTRUCTION COMPANY, Jamestown, N. Y. Filed June 27, 1938. Serial No. 407,934.

BETTER-SIGHT COPYHOLDER

For Copyholders and the Stands or Supports Thereof.
Claims use since May, 1937.

369,088. (CLASS 37. PAPER AND STATIONERY.) BARNEY A. HEIMBINDER, New York, N. Y. Filed July 21, 1938. Serial No. 408,754.

REDI-RECORD

For Loose-Leaf Binders.
Claims use since April, 1938.

369,089. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) HARRY DAVIGNER, New York, N. Y. Filed July 23, 1938. Serial No. 408,834.

Hamilton

For Luggage—Namely, Trunks, Suitcases, Brief Cases, and Handbags.
Claims use since June 1, 1938.

369,090. (CLASS 12. CONSTRUCTION MATERIALS.) J. H. SMITH VENEERS, INC., Chicago, Ill. Filed Sept. 1, 1938. Serial No. 410,192.

FELTWOOD

For Wood Veneer Product.
Claims use since Jan. 1, 1937.

369,091. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CARL FISCHER MUSICAL INSTRUMENT CO. INC., New York, N. Y. Filed Sept. 3, 1938. Serial No. 410,256.

Forzio

For Piano Accordions.
Claims use since February, 1908.

369,092. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GABRIELLE HERBENER, Thomasville, Ga. Filed Sept. 13, 1938. Serial No. 410,506.

AD-OIL

For Salad Dressing.
Claims use since May 31, 1938.

369,093. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) J. W. PODMORE & SONS, Honolulu, Territory of Hawaii. Filed Oct. 11, 1938. Serial No. 411,510.

HAWAIIAN ROSE

For Fresh Deciduous Fruits and Fresh Vegetables—Namely, Potatoes.
Claims use since January, 1933.

369,094. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) M. LINKMAN & COMPANY, Chicago, Ill. Filed Feb. 6, 1939. Serial No. 415,656.



For Smoking Pipes.
Claims use since Jan. 20, 1937.

369,095. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JESSEN CREAMERY COMPANY, Casper, Wyo. Filed Feb. 20, 1939. Serial No. 416,258.

CasperMaid

For Butter, Ice Cream, and Cottage Cheese.
Claims use since January, 1926.

369,096. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) VOGUE NEEDLECRAFT COMPANY, Waldwick, N. J. Filed Mar. 2, 1939. Serial No. 416,624.

VOGART

For Household and Fancy Linens, Textile Material and Novelty Goods, All Stamped for Embroidery, Including Table Linen of All Descriptions, Towels, Household Scarfs, Bed Linen, Samplers, and Uncompleted Wearing Apparel.
Claims use since June, 1930.

369,097. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) THREE MILLERS INC., Boston, Mass. Filed Mar. 14, 1939. Serial No. 417,111.

SO-LITE

For Marshmallow Beaten and Packed in Bulk but not Shaped into Candies.
Claims use since August, 1936.

369,098. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) WACONIA SORGHUM COMPANY, Cedar Rapids, Iowa. Filed Apr. 12, 1939. Serial No. 418,177.

Waconia

For Field Seeds—Namely, Sorghum, Sorgo, Cane, Saccharin, Sorghum, and Non-Saccharin Sorghum.
Claims use since 1918.

369,099. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) R. D. BRADSHAW AND SONS, Wendell, Idaho. Filed Apr. 17, 1939. Serial No. 418,328.

Bradshaw's

For Honey.
Claims use since 1905.

369,100. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE SANDER ENGRAVING CO., Chicago, Ill. Filed Apr. 27, 1939. Serial No. 418,791.

SANDER'S FULTONES

For Wood Engravings for Printing Purposes.
Claims use since May 15, 1936.

369,101. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed May 20, 1939. Serial No. 419,609.

SAFE-T

For Bowling Alley Ball Returns and Parts Thereof.
Claims use since Jan. 12, 1931.

369,102. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 22, 1939. Serial No. 419,682.

READI-BANDAGE

For Adhesive Bandages.
Claims use since February, 1928.

369,103. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) DUNCAN WESTON & COMPANY LIMITED, London, England. Filed June 7, 1939. Serial No. 420,246.

WESTON'S

For Whisky.
Claims use since 1929.

TRADE-MARK REGISTRATIONS RENEWED

16,874. **P. S. BARTLETT.** WATCH MOVEMENTS. Registered July 30, 1889. AMERICAN WALTHAM WATCH COMPANY. Re-renewed July 30, 1939, to Waltham Watch Company, Waltham, Mass., a corporation of Massachusetts, assignee.

17,012. **STERLING.** LADIES' AND CHILDREN'S UNDER-CLOTHING, GARMENTS, CORSETS, AND EMBROIDERIES, LACES, AND TRIMMINGS FOR THE SAME. Registered September 10, 1889. STAPLEY & SMITH. Re-renewed September 10, 1939, to Stapley & Smith, Limited, London, England, a corporation of Great Britain, assignee by mesne assignments.

17,013. **ALPINE.** LADIES' AND CHILDREN'S UNDER-CLOTHING, GARMENTS, CORSETS, AND EMBROIDERIES, LACES, AND TRIMMINGS FOR THE SAME. Registered September 10, 1889. STAPLEY & SMITH. Re-renewed September 10, 1939, to Stapley & Smith, Limited, London, England, a corporation of Great Britain, assignee by mesne assignments.

125,697. **ORIOLE.** SURFACE-TANNED, SIDE, AND CUT LACE LEATHER. Registered June 3, 1919. FRANK B. WILLIAMS. Renewed June 3, 1939, to I. B. Williams and Sons, Dover, N. H., a corporation of New Hampshire, assignee.

125,805. **GUARDIAN.** ROOFING MATERIAL COMPRISING FELTS SATURATED WITH COMPOUNDS. Registered June 17, 1919. THE FLINTKOTE COMPANY, Boston, Mass. Renewed June 17, 1939, to The Flintkote Company, New York, N. Y., a corporation of Massachusetts.

125,811. **Q-BAN.** HAIR-COLOR RESTORER, DEPILATORY, LIQUID SHAMPOO, AND HAIR-TONIC. Registered June 17, 1919. HESSIG-ELLIS DRUG CO., Memphis, Tenn. Renewed June 17, 1939, to William J. Wardall, trustee of the estate of McKesson & Robbins, Incorporated, New York, N. Y., assignee by mesne assignments.

125,858. **PORTRAIT OF A MAN.** A LINIMENT USED IN THE TREATMENT OF TOOTHACHE, RHEUMATISM, LA GRIPPE, AND PNEUMONIA. Registered June 17, 1919. BENJAMIN C. WINELAND, Great Bend, Kans. Renewed June 17, 1939.

126,128. **BELDAMITE.** PACKING MADE UP OF COMPOSITE MATERIALS. Registered July 29, 1919. THE BELDAM PACKING & RUBBER COMPANY LIMITED. Renewed July 29, 1939, to The Beldam Packing & Rubber Co. Limited, London, England, a corporation of Great Britain, assignee by mesne assignments.

126,214. **FARMER BOY.** GALVANIZED-IRON BASKETS. Registered July 29, 1919. SIMMONS HARDWARE COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed July 29, 1939.

126,225. **VOGUE.** GRASS RUGS. Registered July 29, 1919. WAITE GRASS CARPET COMPANY. Renewed July 29, 1939, to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin, by change of name.

126,370. **WESPAC.** CANNED FISH, CANNED FRUIT, AND CANNED VEGETABLES. Registered August 19, 1919. WEST COAST PACKING CO., Los Angeles, Calif. Renewed August 19, 1939, to West Coast Packing Corporation, Long Beach, Calif., a corporation of California, assignee.

126,588. **FARADOID.** ELECTRICAL INSULATORS. Registered September 16, 1919. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa., a corporation of Pennsylvania. Renewed September 16, 1939.

126,649. **CARMOTE.** CERTAIN NAMED PAINTS AND PAINTERS' MATERIALS. Registered September 30, 1919. CARPENTER-MORTON COMPANY, Boston, Mass., a corporation of Massachusetts. Renewed September 30, 1939.

126,755. **RED WING.** LINSEED-OIL. Registered September 30, 1919. RED WING LINSEED OIL COMPANY. Newark, N. J. Renewed September 30, 1939, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania, assignee.

126,879. **LIDS FOR KIDS.** CHILDREN'S HATS. Registered October 7, 1919. ADOLPH MAYER, New York, N. Y. Renewed October 7, 1939.

126,885. **O-PEN-TRATE.** AN ANTISEPTIC HEALING-SALVE USED EXTERNALLY FOR CERTAIN NAMED AILMENTS. Registered October 7, 1919. PARIS MEDICINE COMPANY, St. Louis, Mo. Renewed October 7, 1939, to The Grove Laboratories, Inc., Wilmington, Del., a corporation of Delaware, assignee.

127,223. **DITTO, ETC.** DUPLICATING-ROLLS FOR DUPLICATING-MACHINES. Registered October 28, 1919. DUPLICATOR MANUFACTURING COMPANY. Renewed October 28, 1939, to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia, assignee.

127,224. **DITTO, ETC.** DUPLICATING-MACHINES. Registered October 28, 1919. DUPLICATOR MANUFACTURING COMPANY. Renewed October 28, 1939, to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia, assignee.

127,248. **SPARX.** A REMEDY TO RELIEVE CONSTIPATION, ORDINARY DERANGEMENT OF DIGESTION, AND FOR RELIEF OF DYSPEPTIC HEADACHE. Registered October 28, 1919. MAURICE F. SCHLESINGER. Renewed October 28, 1939, to Bendiner & Schlesinger, Inc., New York, N. Y., a corporation of New York, assignee.

127,264. **KICKPROOF.** LEATHER SHOES. Registered November 4, 1919. S. J. BROUWER SHOE COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed November 4, 1939.

127,409. **EMERALD.** GENTS' DRESS, NEGLIGÉE, AND WORK SHIRTS, ETC. Registered November 11, 1919. J. F. HAIG & Co. LTD. Renewed November 11, 1939, to J. F. Haig & Co. Ltd., Belfast, Ireland, a company of the United Kingdom of Great Britain and Northern Ireland, assignee.

127,424. **BEN HUR.** PERFUMES AND TOILET WATERS. Registered November 11, 1919. THE ANDREW JERGENS COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed November 11, 1939.

127,469. **SEA SIDE.** FRESH CITRUS FRUITS—NAMELY, LEMONS. Registered November 11, 1919. OXNARD CITRUS ASS'N., Hueneme and Oxnard, Calif. Renewed November 11, 1939, to Oxnard Citrus Association, Hueneme, Calif., a corporation of California.

127,470. **CORKER.** FRESH CITRUS FRUITS—NAMELY, LEMONS. Registered November 11, 1919. OXNARD CITRUS ASS'N., Hueneme and Oxnard, Calif. Renewed November 11, 1939, to Oxnard Citrus Association, Hueneme, Calif., a corporation of California.

127,482. **RED WING.** ANIMAL AND STOCK FOODS. Registered November 11, 1919. RED WING LINSEED OIL COMPANY, Newark, N. J. Renewed November 11, 1939, to Pittsburgh Plate Glass Company, Pittsburgh, Pa., a corporation of Pennsylvania, assignee.

127,615. **GRA KNIGHT.** LEATHER BELTING. Registered November 18, 1919. THE GRATON & KNIGHT MANUFACTURING COMPANY. Renewed November 18, 1939, to Graton & Knight Company, Worcester, Mass., a corporation of Massachusetts, assignee.

127,621. **IODENT.** TOOTH-PASTE. Registered November 18, 1919. IODENT CHEMICAL COMPANY, Detroit, Mich., a corporation of Michigan. Renewed November 18, 1939.

127,775. **OMEGA.** A PREPARATION FOR THE TREATMENT OF CERTAIN NAMED DISEASES. Registered December 2, 1919. THE OMEGA CHEMICAL COMPANY, New York, N. Y. Renewed December 2, 1939, to Omega Chemical Co., Inc., Jersey City, N. J., a corporation of New Jersey, assignee.

127,784. **VANTIES.** A GARMENT—NAMELY, A STEP-IN DRAWER. Registered December 2, 1919. SCHUYLKILL SILK MILLS. Renewed December 2, 1939, to Vanity Fair Silk Mills, Reading, Pa., a corporation of Pennsylvania, by change of name.

127,796. **TYREE'S.** ANTISEPTIC POWDERS. Registered December 2, 1919. J. S. TYREE, CHEMIST, INC., Washington, D. C., a corporation of Delaware. Renewed December 2, 1939.

127,814. **HUMMER.** NON-ALCOHOLIC NON-CEREAL MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS FOR THE MANUFACTURE OF THE SAME. Registered December 9, 1919. HENRY C. BREIMEYER. Renewed December 9, 1939, to John Kulch, St. Louis, Mo., successor.

127,855. **NEATSTEAD.** A SOLUBLE OIL USED FOR THE TREATMENT OF SILK. Registered December 9, 1919. THE MOORE OIL COMPANY, Cincinnati, Ohio. Renewed December 9, 1939, to The Pure Oil Company, Chicago, Ill., a corporation of Ohio, successor.

LABELS

REGISTERED JULY 11, 1939

53,236.—*Title:* GOLDEN GATE INTERNATIONAL EXPOSITION PACKAGE. For Chocolates, Candy and Nuts. AWFUL FRESH MACFARLANE, Oakland, San Francisco, and Berkeley, Calif. Published May 5, 1939.

53,237.—*Title:* BEECH-NUT FRUITED OAT COOKIES. For Fruited Oat Cookies. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published May 25, 1939.

53,238.—*Title:* PANTRY PACKAGE. For Wrappers for Loaves of Bread. BRAUN BAKING COMPANY, Pittsburgh, Pa. Published May 4, 1939.

53,239.—*Title:* COMSTOCK. For Whole Beets. COMSTOCK CANNING CORPORATION, Newark, N. Y. Published May 18, 1938.

53,240.—*Title:* COMSTOCK. For Sliced Apples. COMSTOCK CANNING CORPORATION, Newark, N. Y. Published May 18, 1938.

53,241.—*Title:* KANT-FOG GLASS CLEANER. For a Glass Cleaner. HARRY B. COWAN, Los Angeles, Calif. Published June 8, 1939.

53,242.—*Title:* SALVUS SUTURES. For Sutures. DAVIS & PITANN LTD., Chicago, Ill. Published March 16, 1939.

53,243.—*Title:* THE CAN WITH THE OPENING DATE. For Cans. ALFRED H. ESTY, Santa Cruz, Calif. Published March 28, 1939.

53,244.—*Title:* THE CAN WITH THE OPENING DATE. For Cans. ALFRED H. ESTY, Santa Cruz, Calif. Published March 28, 1939.

53,245.—*Title:* MEAD'S POWDERED LACTIC ACID WITH DEXTRI-MALTOSE, NO. 1. For a Product Containing Whole Milk, Acidified with Lactic Acid, and Added Maltose and Dextrins, Homogenized and Spray-Dried. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 5, 1939.

53,246.—*Title:* MEAD'S MINERAL OIL WITH MALT SYRUP. For Homogenized Mixture of White Mineral Oil and Malt Syrup with Emulsifying Agents, and 2% Alcohol by Volume. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 5, 1939.

53,247.—*Title:* SOBEE. For a Mixture of Soy Bean Flour, Virgin Olive Oil, Arrowroot Starch, Maltose and Dextrines, Calcium Phosphate Dibasic and Sodium Chloride, Which Has Been Homogenized, Cooked, Dried, and Powdered. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 5, 1939.

53,248.—*Title:* ALACTA. For a Homogenized, Spray-Dried Mixture of Approximately Equal Parts of Skim Milk and Whole Milk. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 5, 1939.

53,249.—*Title:* OLAC. For a Homogenized, Spray-Dried Mixture of Skim Milk, Maltose and Dextrins, Virgin Olive Oil, Calcium Caseinate and Halibut Liver Oil. MEAD JOEHNSON & COMPANY, Evansville, Ind. Published June 6, 1939.

53,250.—*Title:* LIANE QUALITY-TESTED SHAMPOO. For a Shampoo. LIANE INCORPORATED, Freeport, Ill. Published May 20, 1939.

53,251.—*Title:* SUMMER DELIGHT ORANGE FLAVORED SYRUP. For an Orange Flavored Syrup. LITTLE BROWN JUG PRODUCTS COMPANY, St. Louis, Mo. Published May 25, 1939.

53,252.—*Title:* SCHMIDT'S OLD HOME PANTRY PACKAGE WHITE BREAD. For Bread. THE W. E. LONG Co., Chicago, Ill. Published May 19, 1939.

53,253.—*Title:* PROLARMON. For a Liquid Used as a Thoroughly Saturated Wet Dressing. MAGGOT PRODUCTS COMPANY, Chicago, Ill. Published May 16, 1939.

53,254.—*Title:* MUNCHEE GRAIN BUDS. For a Health Food. MANNLY CORPORATION, Minneapolis, Minn. Published April 4, 1939.

53,255.—*Title:* BRER RABBIT. For Corn and Georgia Cane Syrup. PENICK & FORD, LTD. INCORPORATED, New York, N. Y. Published June 7, 1939.

53,256.—*Title:* CINDERELLA SLIPPERS—BOOTS FOR BEAUTY. For Slippers. FARRIS A. SAMPSON, Louisville, Ky. Published August 17, 1938.

53,257.—*Title:* BUFFALO BRAND. For Apples. GEORGE F. SEIBERLING, J. THOMAS SCHANTZ, NOLAN P. BRENNER, trustees of the estate of Harry C. Trexler, deceased, Allentown, Pa. Published November 21, 1938.

53,258.—*Title:* R. H. MACY & CO., INC. For Shoes. ARTHUR STAIB, New York, N. Y. Published April 5, 1939.

53,259.—*Title:* FERMALOID. For Dough Improver. STANDARD BRANDS INCORPORATED, New York, N. Y. Published April 24, 1939.

53,260.—*Title:* ARKADY. For Dough Improver. STANDARD BRANDS INCORPORATED, New York, N. Y. Published April 24, 1939.

53,261.—*Title:* BLUE BONNET. For Vitaminized Oleomargarine. STANDARD NUT MARGARINE COMPANY, Indianapolis, Ind. Published April 21, 1939.

53,262.—*Title:* TOWNSEND'S RED SEAL BRAND. For Wines. W. L. TOWNSEND, Imperial, Calif. Published May 15, 1939.

53,263.—*Title:* BREAST O' CHICKEN. For Canned Tuna Fish. WESTGATE SEA PRODUCTS Co., San Diego, Calif. Published June 6, 1939.

PRINTS

REGISTERED JULY 11, 1939

17,486.—*Title:* FOR HAIR THAT HAS BEEN ABUSED. For Oil Shampoo. ADMIRACION LABORATORIES, INC., doing business as Admiracion Laboratories, Harrison, N. J. Published May 17, 1939.

17,487.—*Title:* ROAD RUNNER RACER. For Gasoline. DANCIGER OIL & REFINERIES, INC., Tulsa, Okla. Published May 31, 1939.

17,488.—*Title:* WE BLEW CORN INTO ENTICING "BUBBLES" . . . TO GIVE YOU SOMETHING ENTIRELY NEW FOR BREAKFAST! For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published June 7, 1939.

17,489.—*Title:* THE CLOTHES YOU BUY AT KERMANS. For Women's Coats, Suits, Dresses, Blouses, Furs, and Millinery. KERMAN STORES COMPANY, doing business as Kermans, Chicago, Ill. Published May 16, 1939.

17,490.—*Title:* ACCURACY CONTROLLER. For Calculating Machines. MARCHANT CALCULATING MACHINE COMPANY, Oakland, Calif. Published June 3, 1939.

17,491.—*Title:* BURNEAZE. For an External Emollient for Burns and Sunburn. UNITED DISTRIBUTORS, INCORPORATED, Louisville, Ky. Published April 22, 1938.

17,492.—*Title:* VOGUE TYRE. For Automobile Tires. VOGUE RUBBER COMPANY, Chicago, Ill. Published June 1, 1939.

REISSUES

JULY 11, 1939

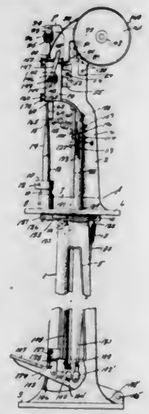
21,141

MACHINE FOR MAKING AND INSERTING METALLIC FASTENERS

Davis J. Ajouelo, Atlanta, and James Linton Moore, deceased, late of Decatur, Ga., by Susan Ansley Moore, executrix, Decatur, Ga., assignors to The Auto-Soler Company, Atlanta, Ga., a corporation of Georgia

Original No. 2,049,240, dated July 28, 1936, Serial No. 696,427, November 2, 1933. Application for reissue July 18, 1938, Serial No. 220,014

19 Claims. (Cl. 1—29)



1. A device for making and inserting metallic fasteners formed from a continuous wire comprising a wire feeding mechanism, a plunger mechanism including a cam block member, a fastener forming knife mechanism including stationary and movable blade elements, a hook-like trigger member adapted to move said movable blade to and maintain the same in wire cutting position when actuated by said cam block traveling upwardly, said block adapted to engage and move said blade in cutting direction when moving downwardly, and means for operating said movable mechanisms, whereby said movable blade is adapted to form and position the respective fastener elements in the path of said plunger.

21,142

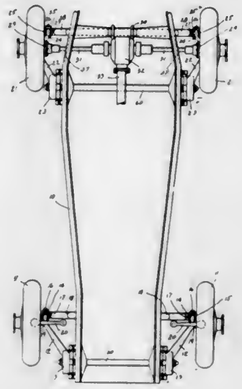
INDEPENDENT WHEEL SUSPENSION

Frederick E. Clemons, Indianapolis, Ind.

Original No. 2,104,736, dated January 11, 1938, Serial No. 739,370, August 11, 1934. Application for reissue February 21, 1938, Serial No. 191,811

21 Claims. (Cl. 280—124)

1. In an automobile, the combination with a frame, a load spring, and an automobile wheel, of an elongated wheel support structure operatively connected to the load spring at one end, means pivotally supporting, remote from the spring connection, said structure upon an axis substantially parallel to the longitudinal axis of the automobile and upon an axis intersecting the first mentioned axis and approximately transverse to the longitudinal axis of the automobile, said structure extending longitudinally of the automobile, and means securing said elongated



structure at its opposite end in adjusted position on the first mentioned axis.

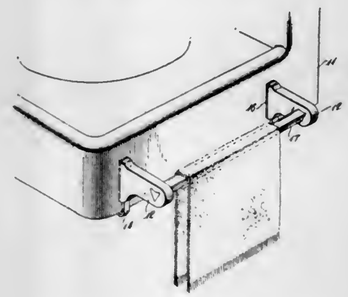
21,143

TOWEL RACK

Robert F. Davis, Washington, D. C., assignor, by mesne assignments, to The Edward Katzinger Company, a corporation of Illinois

Original No. 2,141,347, dated December 27, 1938, Serial No. 70,660, March 24, 1936. Application for reissue April 25, 1939, Serial No. 270,041

7 Claims. (Cl. 211—86)



1. A towel rack suitable for attachment to the apron of a lavatory, bathtub or the like that comprises an elongated towel bar, a supporting member at each end of said bar for holding the bar and spacing it from the surface to which it is to be attached, and a clamp on each supporting member positioned so that it may be passed around the edge of the apron, grasp the apron, and hold the supporting member in place

thereon, a substantial portion of the clamp being hidden by the apron when the rack is clamped in place.

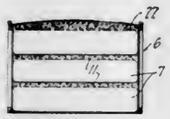
21,144

REFRIGERATING LETTUCE AND THE LIKE

Wesley W. Dodge, Oakland, Calif., assignor to Paterson Pacific Parchment Co., a corporation of California

Original No. 2,124,412, dated July 19, 1938, Serial No. 121,574, January 21, 1937. Application for reissue March 27, 1939, Serial No. 264,473

6 Claims. (Cl. 62—15)



1. A method of packing a product for shipment, said method comprising enclosing said product in a flexible, tough, waterproof, moisture permeable material having the capacity of resisting prolonged contact with water without disintegration, arranging such wrapped product in a container, contacting the so wrapped product with a quantity of ice fragments, and confining the ice so as to cause the meltage therefrom to flow over said wrapped product.

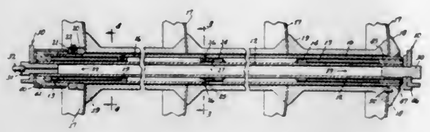
21,145

BEARING FOR EARTH WORKING TOOLS

William E. Goble, Fowler, Calif., assignor of one-half to Goble Disc Works, a corporation

Original No. 1,932,619, dated October 31, 1933, Serial No. 587,219, January 18, 1932. Application for reissue January 18, 1939, Serial No. 251,652. Renewed August 22, 1933

9 Claims. (Cl. 308—19)



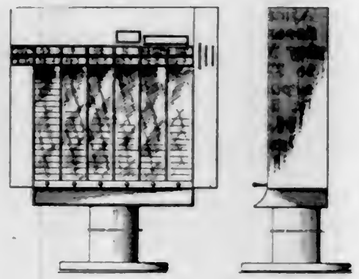
1. An earth working tool comprising a tubular housing adapted to attach a plurality of earth working tools thereto, a fixed axle adapted for the tubular housing to rotate thereon, packing means at each end of said assembled tubular housing and axle adapted to exclude dust and dirt therefrom, and a thrust bearing near the approximate center of the assembled housing and axle consisting of an annular stop member attached to the axle, and an annular stop member attached to the inside of the housing, said stop members being positioned to cooperate in limiting the lateral movement of the housing relative to the axle, a chamber within the tubular housing and adjacent to the thrust bearing, said chamber being adapted to hold a lubricant.

21,146

DESIGN FOR A HOSIERY DISPENSING MACHINE

Robert Charles Hopkins, Rockville Centre, N. Y.

Original No. 111,107, dated August 30, 1938, Serial No. 76,341, April 7, 1938, for 3½ years. Application for reissue May 3, 1939, Serial No. 84,805. Term of patent 14 years



The ornamental design for a hosiery dispensing machine, as shown.

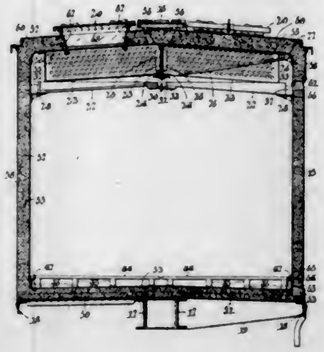
21,147

REFRIGERATOR CAR AND THE LIKE

William F. Kiesel, Jr., Hollidaysburg, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania

Original No. 2,093,896, dated September 21, 1937, Serial No. 14,234, April 2, 1935. Application for reissue September 13, 1938, Serial No. 229,770

31 Claims. (Cl. 62—17)



1. In a refrigerator car body construction comprising an inside metal shell and an outside metal shell, interposed heat insulating material thermo-insulating them from one another, channel braces for stiffening said inner and outer shells embedded in said interposed insulating material at intervals along the length of the car, and offset from one another, and top refrigerant-bunkers in the car, above its lading space, supported from certain of said braces.

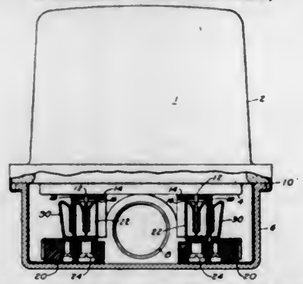
21,148

METER BASE

Walter G. Mylius, Summit, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original No. 2,088,480, dated July 27, 1937, Serial No. 746,188, September 29, 1934. Application for reissue April 28, 1938, Serial No. 204,925

8 Claims. (Cl. 175—224)



1. In a mounting for an electrical instrumentality including a casing therefor having contacts projecting therefrom and a supporting base structure having contacts for engaging the casing contacts when the casing is in operative position, and means for bridging certain of said base contacts when the casing is removed from such position; said bridging means including a conducting member resiliently engaging one of the base contacts, and means operative when said casing is placed in operative position for inserting a non-conducting member between said resiliently engaging elements.

21,149

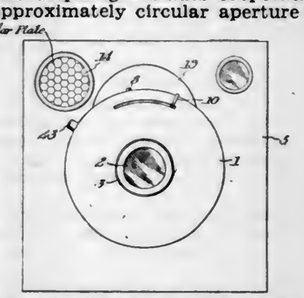
EXPOSURE APPARATUS FOR CAMERAS

Hans Ferdinand Tönnies, Hamburg-Grossflottbek, Germany

Original No. 2,051,061, dated August 18, 1936, Serial No. 753,752, November 19, 1934. Application for reissue October 24, 1938, Serial No. 236,829

24 Claims. (Cl. 95—64)

14. In an automatic diaphragm, the combination of a casing having spaced lens elements defining a light passage through the casing, an electrical measuring apparatus within said casing having a plurality of coils each pivoted on an axis parallel to the axis of the light passage and means forming a single magnetic circuit cooperating with all of said pivoted coils, and a diaphragm blade connected to each coil and actuated thereby in a plane normal to the coil axis and between said lens elements, the inner edges of said diaphragm blades cooperating to define an approximately circular aperture when



said moving coils displace the respective diaphragm blades into positions corresponding to the full diameter opening of the camera lens.

21,150

SOURCE OF LIGHT AND METHOD OF OPERATING THE SAME

Egbert von Lepel, New York, N. Y.

Original No. 1,919,490, dated July 25, 1933, Serial No. 620,403, July 1, 1932. Application for reissue October 24, 1938, Serial No. 236,831

3 Claims. (Cl. 176—122)

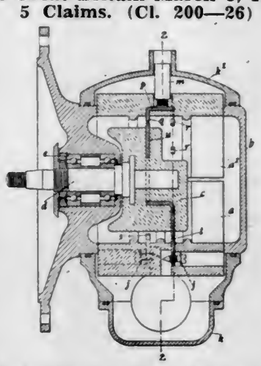


1. As a new and improved article of manufacture, a container having a gas and a vaporizable material located therein, a coil surrounding the major portion of said container, said coil being adapted, when the same is energized by the passage of an electric current through the same, to vaporize said material and to cause said gas and said vaporized material to emit light, said container having a condensing chamber integral therewith and sharply defined from that portion of the container which is surrounded by said coil, said condensing chamber being beyond the zone of direct luminescence, the volume of said condensing chamber being less than two per cent of the volume of that portion of the container which is surrounded by the coil.

PATENTS

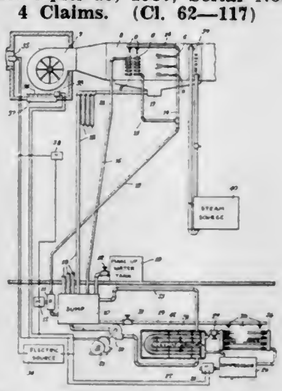
GRANTED JULY 11, 1939

2,165,196
SPARK IGNITION DISTRIBUTOR FOR INTERNAL COMBUSTION ENGINES
Alfred Massey-Allen, Watford, England, assignor to Joseph Lucas Limited, Birmingham, England
Application February 24, 1938, Serial No. 192,379
In Great Britain March 8, 1937
5 Claims. (Cl. 200—26)



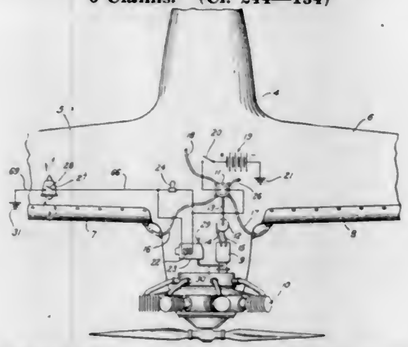
1. A high tension ignition distributor comprising the combination of a body part, a rotor, input electrodes arranged on the body part and subtending one side of the periphery of the rotor, corresponding output electrodes on the body part subtending the other side of the periphery of the rotor, and a connecting electrode carried transversely on the rotor and adapted to connect electrically corresponding input and output electrodes, substantially as described.

2,165,197
AIR CONDITIONING SYSTEM UTILIZING REFRIGERATION
Samuel M. Anderson, Sharon, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.
Application April 16, 1937, Serial No. 137,249
4 Claims. (Cl. 62—117)



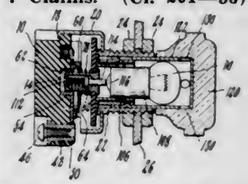
1. An air conditioning system for a passenger vehicle comprising an air cooler, an evaporator for cooling water, refrigerating means including a condenser for supplying a refrigerant to said evaporator, means for supplying water chilled by said evaporator to said cooler, and means for spraying a portion of the water returned from said cooler upon said condenser and for then discharging it from said vehicle.

2,165,198
AUTOMATIC CONTROL MEANS FOR DEICING MECHANISMS FOR AIRCRAFT
Howard E. Baer, Garfield, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application December 14, 1935, Serial No. 54,487
Renewed April 22, 1938
6 Claims. (Cl. 244—134)



1. In combination, an aircraft, de-icing mechanism including inflatable members on the surface of said aircraft for preventing accumulation of ice on said surface, means for periodically inflating said inflatable members, and means on said surface and responsive to ice formation for automatically controlling inflating means.

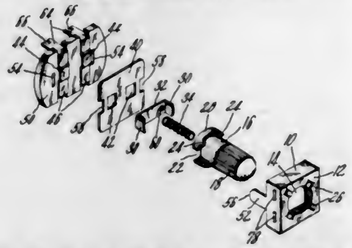
2,165,199
RHEOSTAT SWITCH
Hugh W. Batcheller, Waltham, Mass., assignor to Standard Mfg. Co., Worcester, Mass., a corporation of Massachusetts
Application April 8, 1936, Serial No. 73,218
7 Claims. (Cl. 201—53)



1. As a new article of manufacture, a slab of refractory material having an arcuate groove in a face thereof, said groove having a portion at one end thereof deeper than the remainder of the groove, a helical coil of resistance wire disposed in said groove so that several convolutions at one end thereof are in the deeper portion and do not project above the face of the slab but a portion of each convolution in the remainder of the groove projects above said surface, refracto.y cement substantially filling said groove and

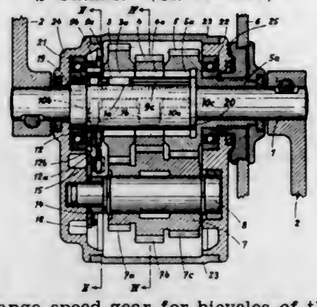
entirely covering the convolutions in the deeper portion thereof, and a contact element connected to said coil at said end thereof adjacent to the covered convolutions for engagement by a contact shoe.

2,165,200
SWITCH FOR MOTOR CASING
Hugh W. Batcheller, Newton, Mass., assignor to Standard Mfg. Co., Worcester, Mass., a corporation of Massachusetts
Application September 18, 1936, Serial No. 101,424
1 Claim. (Cl. 200—155)



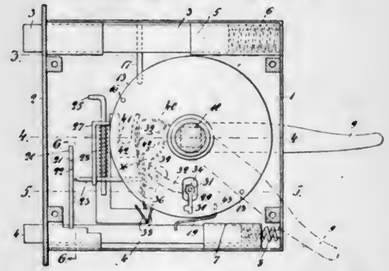
In an electric switch, a metal housing member having an aperture and a plurality of depressions in its inner surface adjacent to said aperture, a base attached to said housing member, an operating member projecting through said aperture, said operating member having a flange within the housing and lugs on said flange arranged to enter said depressions, said operating member also having a bore in its inner end and notches in the edge of said flange, a plane insulating surface on said base opposed to said operating member, a pair of conducting elements having surface portions flush with said insulating surface and connectible into a circuit, a bridging conductor consisting of a strip of metal having its ends bent up to engage in said notches, and a compression spring within said bore pressing said lugs against said housing member and said bridging conductor against said plane surface.

2,165,201
CHANGE-SPEED GEAR, ESPECIALLY FOR BICYCLES
Emile Baumgartner, Bienne, Switzerland
Application October 11, 1937, Serial No. 168,489
In Switzerland November 16, 1936
2 Claims. (Cl. 74—363)



1. Change-speed gear for bicycles of the constant mesh toothed wheel type in which the speed change is obtained by back pedalling and in combination, a casing adapted to be pressed into the framing, a pedal shaft and a countershaft, the first rotatably held within the casing, three change-speed pinions loose on the pedal shaft and having notched bores, one of said pinions in operative connection with the chain wheel; a change wheel sleeve loose on the countershaft and in constant mesh with said change speed pinions, a control disk formed in part by two coupled coadjacent disks having oppositely directed ratchet teeth and provided with a limited recess in its bore, three small shafts sunk into longitudinal grooves of the crankshaft, each small shaft carrying two dogs, the one, spring controlled, adapted to cooperate with said recess in the bore of the control disk and the other adapted to cooperate with the notches of one of the respective change-speed pinions, a toothed stop plate pivotally held on said countershaft, a spring-controlled plate carried by this stop plate which stop plate and pawl is arranged to cooperate with the teeth of the control disk, and diametrically arranged stop pins fast to the casing adapted to limit the pivoting of said stop plate and to cause the engagement of one of the dogs with a notch of a respective change-speed pinion.

2,165,202
LOCK
Yngvar Björck, Kyrkviken, Sweden
Application October 26, 1937, Serial No. 171,141
In Sweden November 5, 1936
8 Claims. (Cl. 70—151)

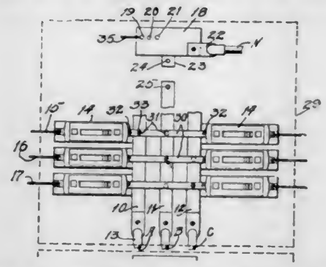


1. In a safety lock having a key hole, locking members, a tumbler mechanism controlling said locking members and disposed at a distance laterally from the key hole, a key adapted for insertion in said key hole and including a first part and a second part separable from the first part, said second part being adapted to actuate said tumbler mechanism, a hand operable member, and members in operative relation to said hand operable member adapted, upon actuation of the hand operable member, to engage and separate the second key part from the first key part and to transfer said second key part into engagement with the tumbler mechanism for actuating the latter.

2,165,203
PANEL BOARD
Milo H. Albers, Wichita, Kans.
Application September 25, 1937, Serial No. 165,671
5 Claims. (Cl. 175—369)

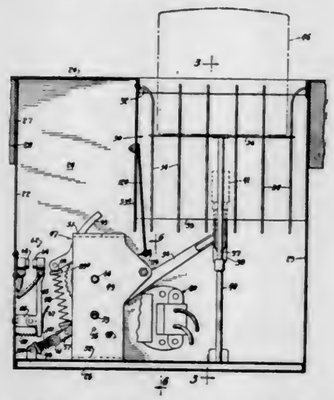
1. In a distribution panel, spaced apart rows of circuit controlling devices, a plurality of laterally spaced bus bars lying substantially in the same plane and disposed between said rows of devices, said devices having confronting terminal connections lying above the plane of said bus bars, means for selectively connecting the terminals of said devices to said busses, said means comprising a plurality of interchangeable flat phasing bars each adapted to extend transversely of and spaced above the bus bars and be secured

at one end to the terminal of a device in one of said rows and at its other end to the terminal of



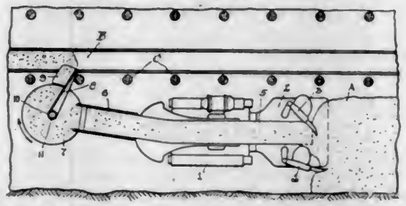
a device in said other row, and a member for selectively connecting each phasing bar to any one of said busses.

2,165,204
AUTOMATIC BREAD TOASTING APPARATUS
Roy J. Anderson, Chicago, Ill., assignor of one-fourth to Lynwood E. Storey, Chicago, Ill., and one-fourth to John Pabst, Evanston, Ill.
Application October 20, 1937, Serial No. 170,065
28 Claims. (Cl. 219—19)



8. Toasting apparatus embodying therein means providing a source of heat, means for controlling said source of heat, bread supporting means movable with respect to said source of heat from a bread receiving position to a bread toasting position, a power driven shaft, means adapted to be connected to said shaft so as to be operative to move said bread supporting means from said bread receiving position to said bread supporting position and to actuate said controlling means for said source of heat, manually releasable means for holding said connecting means disconnected from said shaft, said connecting means actuated by said shaft when connected thereto for moving said supporting means from its bread receiving position to its bread toasting position and for holding said bread supporting means in its toasting position for a predetermined period of time, means responsive to temperature conditions of said source of heat for controlling the period of time said bread receiving means remains in its toasting position, and means operative through said connecting means at the expiration of said period of time to move said bread supporting means back to its bread receiving position.

2,165,205
SIDE DISCHARGE LOADING MECHANISM
Einar M. Arentzen, Franklin, Pa., assignor to Joy Manufacturing Company, Franklin, Pa., a corporation of Delaware
Application April 28, 1938, Serial No. 204,842
10 Claims. (Cl. 198—7)

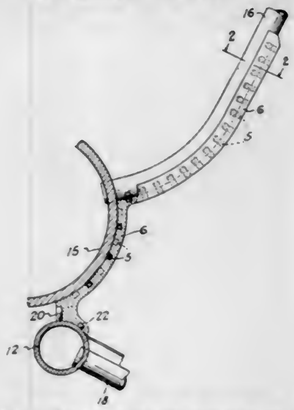


1. In a mechanism of the character described, the combination of a tractor mounting an endless conveyor, a rotatable disc mounted adjacent the discharge end of said conveyor and adapted to receive material therefrom, and movable deflecting means for guiding and clearing material from said disc during rotation, said deflecting means extending beyond the periphery of said disc and being adapted to be moved around the periphery of said disc on contact with an exterior object during travel of said tractor.

2,165,206
PEST CONTROL
Raymond F. Bacon, Bronxville, N. Y., and Isaac Bencowitz, Gulf, Tex., assignors to Texas Gulf Sulphur Company, Houston, Tex., a corporation of Texas
No Drawing. Application February 25, 1936, Serial No. 65,687
4 Claims. (Cl. 167—14)

1. A parasitical preparation, comprising a sulphide of phosphorus as an essential constituent thereof.

2,165,207
FURNACE
Ervin G. Bailey, Easton, Pa., assignor, by mesne assignments, to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application July 10, 1934, Serial No. 734,456
Renewed February 20, 1937
16 Claims. (Cl. 122—235)



1. In fluid heat exchange apparatus, a furnace, a fluid chamber in the form of a header or drum

extending transversely of a wall of the furnace in proximity thereto and exposed to heat from the furnace, tubes communicating with the chamber and extending along a side of the furnace, metallic studs distributed over the sides of the tubes and the chamber facing the interior of the furnace and welded thereto and refractory material extending over said sides and around the studs.

2,165,208
FLUID HEAT EXCHANGE APPARATUS
Ervin G. Bailey, Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application May 15, 1937, Serial No. 142,739
7 Claims. (Cl. 122—302)



4. In a water tube steam boiler having a deep bank of inclined steam generating tubes having normal tube spacing and extending across the path of high temperature furnace gases, means increasing the steam generating capacity of the boiler, said means consisting of refractory structures in good heat exchange relationship with the metal of the front tubes first heated by the oncoming furnace gases, said structures and front tubes being so arranged that the maximum gas flow areas between adjacent front tubes are maintained.

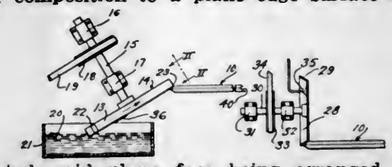
2,165,209
CABLE CUTTER
Nicholas T. Baldanza, Passaic, N. J.
Application April 20, 1937, Serial No. 137,991
5 Claims. (Cl. 30—182)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A cable tool comprising a body, a fixed jaw and a movable jaw on said body, means for actuating the movable jaw relative to the fixed jaw including a plunger screw engaging the movable jaw to actuate same to and from said fixed jaw, a rotatable collar threadedly carried on said plunger screw and retained against axial movement by said body, and a uni-directional clutch interposed between the plunger screw and a non-rotating member of the tool to prevent rotation of the plunger screw in one direction only.

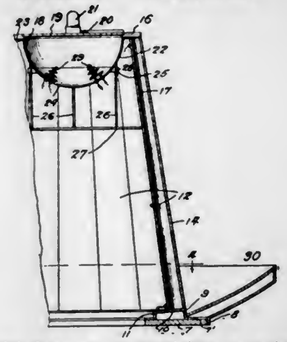
2,165,210
APPARATUS FOR COATING BEVELED EDGES
Alfred W. Baldwin, Pensacola, Fla., assignor, by mesne assignments, to Armstrong Cork Company, Manheim Township, Lancaster County, Pa., a corporation of Pennsylvania
Application December 16, 1936, Serial No. 116,054
2 Claims. (Cl. 91—51)

1. Apparatus for coating plane edge surfaces, comprising a rotatable disk having a circular plane face inclined at an angle to the horizontal, a supply of a coating composition into which the lower edge of said plane face dips and means for revolving said disk to transfer a film of said coating composition to a plane edge surface to be



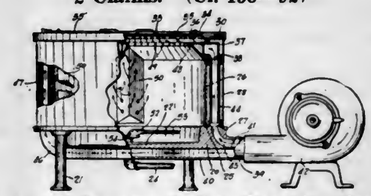
coated, said plane face being arranged at a slight angle to the surface of said plane edge to form line contact therewith, whereby a wedge-shaped fillet of said coating composition is built up in back of said line contact.

2,165,211
AIRPORT BEACON
Roland F. Bass and Walter L. Rives, Jacksonville, Fla., assignors to Airport Beacons, Inc., Jacksonville, Fla., a corporation of Florida
Application November 10, 1937, Serial No. 173,892
4 Claims. (Cl. 240—1.2)



1. A light beacon comprising a substantially horizontal base; a plurality of elongated reflectors mounted on said base at a slight inclination to the vertical, said reflectors being concave in cross section and mounted with the elements of their reflecting surfaces in nested coaxial cones; neon tubes mounted on said reflectors; means at the upper ends of said tubes and coaxial therewith for projecting a beam of light vertically upward; and means extending laterally from said horizontal base for reflecting rays of light upwardly therefrom.

2,165,212
OIL BURNER
Emory Louis Bauer, Wilmington, Del., assignor to Emory L. Bauer, Inc., Wilmington, Del., a corporation of Delaware
Application September 24, 1935, Serial No. 41,854
In Canada February 16, 1935
2 Claims. (Cl. 158—92)



1. An oil burner of the character described

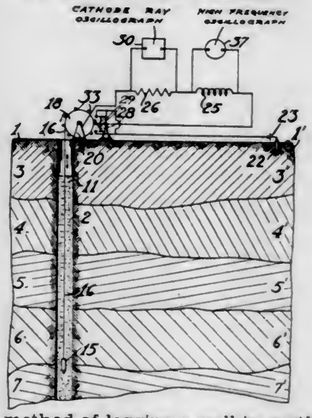
comprising a fire pot having an air-tight wall and a gas and flame outlet opening at its top, means for delivering oil into said fire pot, means for delivering air under pressure greater than atmospheric pressure into said fire pot, and means independent of said last-mentioned means for delivering a current of air by aspiration around and above said gas and flame outlet opening.

2,165,213

ELECTRICAL TRANSIENT WELL LOGGING

Ludwig W. Blau and Louis Statham, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application April 8, 1936, Serial No. 73,234
16 Claims. (Cl. 175—182)



1. The method of logging a well in earth strata of different electrical properties from each other between the terminals of an exploring circuit, which comprises moving one of the terminals along the well and grounding the other terminal at a distance from the well, passing an electric current through the circuit and the earth strata at a point of travel of said moving terminal whereby a transient is obtained which is modified by the passage through the strata of the current at said point of travel of said moving terminal, and exhibiting an indication of the transient of said current as modified by its passage through the strata upon an indicating instrument arranged in the circuit.

12. An apparatus for geophysical exploration comprising a pair of electrically connected electrodes adapted to be grounded in the earth at a distance from each other, a source of electrical power in the circuit connecting said electrodes, an inductance connected in series with said electrodes and an electrical indicating instrument connected across said inductance.

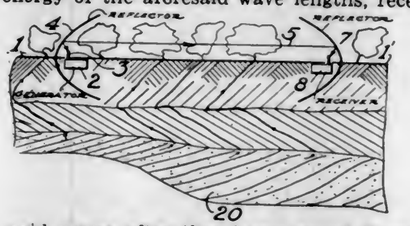
2,165,214

GEOPHYSICAL PROSPECTING WITH SHORT ELECTROMAGNETIC WAVES

Ludwig W. Blau and William B. Lewis, Houston, Tex., assignors to Standard Oil Development Company, a corporation of Delaware

Application June 26, 1936, Serial No. 87,462
6 Claims. (Cl. 250—1)

1. The method of geophysical prospecting which comprises passing short electro-magnetic waves, including wave lengths which are capable of being absorbed by hydrocarbons, through a medium associated with the earth in the area to be investigated in such a way as to contain any hydrocarbons which may be passing through said earth, whereby the presence of hydrocarbons in said medium will be indicated by an absorption of energy of the aforesaid wave lengths, receiving said waves after they have passed through said medium and measuring the energy of the received waves.

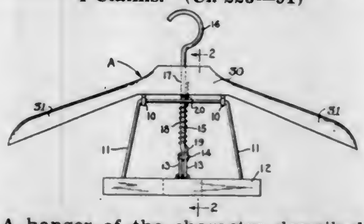


2,165,215

COAT AND TROUSERS HANGER

Edward A. Blinn, Bellmore, N. Y.

Application May 12, 1937, Serial No. 142,244
4 Claims. (Cl. 223—91)



1. A hanger of the character described comprising a member, hanger bails swingingly connected with the member, jaws carried by said bails, links pivoted to the jaws, a hanger hook comprising a hook element and shank portion, said shank portion being slidable through said member and pivotally connected to said links, and tensioning means active for normally maintaining the jaws closed with respect to each other.

2,165,216

ORNAMENT CONSTRUCTION

William C. Boots, Attleboro, Mass., assignor to Guyot Brothers, Inc., a corporation of Massachusetts

Application December 18, 1936, Serial No. 116,585
7 Claims. (Cl. 24—252)



1. An ornament clamp comprising a lower element and an upper element spaced from said lower element, said lower element being adapted to be secured to an ornament, a pressure plate adapted to move towards said lower element to securely grip material placed therebetween, said pressure plate having an extended portion slidable in a slot in said upper element for guiding said pressure plate in its open position, and means mounted in said upper element for moving said pressure plate, said means including a manually movable lever hinged in said upper element and a cam engaging said pressure plate.

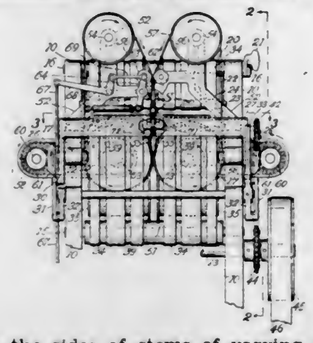
2,165,217

TOBACCO STEMMING

Wilhelm B. Bronander, Montclair, N. J., assignor to International Cigar Machinery Company, a corporation of New Jersey

Application November 5, 1935, Serial No. 48,353
5 Claims. (Cl. 131—57)

1. In a tobacco stemming machine, the combination with a pair of flexible endless cutting members having adjacent cutting edges arranged to receive the stem of a tobacco leaf between them to cut the laminae from the stem, driving means for imparting cutting movement to said edges, a pressure element engaging at least one of said members, and means yieldingly urging said pressure element against said member toward the other member to cause said members to snugly



engage the sides of stems of varying diameter, said endless members being arranged to cooperate against opposite sides of a tapering stem progressively from butt to tip for severing the laminae along their juncture with the stem, without waste, acting for that purpose as sensing means, regardless normally of the bodily displacement of the pressure element relatively to the axis of the stem.

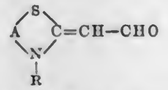
2,165,218

FORMYLMETHYLENE DERIVATIVES

Leslie G. S. Brooker, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

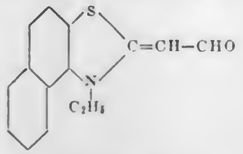
No Drawing. Application August 13, 1936, Serial No. 95,925. In Great Britain August 15, 1935
10 Claims. (Cl. 260—289)

1. A product characterized by the following formula:



wherein A represents a naphthylene group and R represents an alkyl group.

3. A product characterized by the following formula:



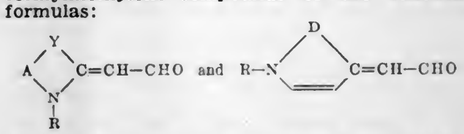
2,165,219

PROCESS FOR THE PREPARATION OF DYES

Leslie G. S. Brooker, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

No Drawing. Application August 13, 1936, Serial No. 95,926. In Great Britain August 15, 1935
12 Claims. (Cl. 260—240)

1. A process for the preparation of a dye comprising reacting, in the presence of a water-binding agent essentially comprising an anhydride of a fatty acid containing from two to four carbon atoms, an organic compound containing a nuclear reactive methylene group adjacent to a nuclear group selected from the group consisting of nuclear carbonyl and nuclear thiocarbonyl groups with a compound selected from the formylmethylene compounds of the following formulas:



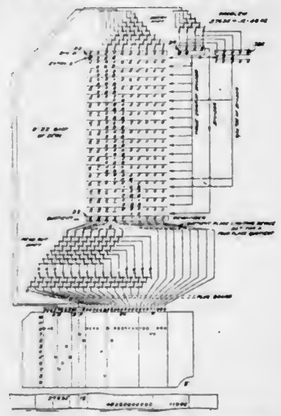
wherein A represents an organic group selected from the group consisting of vinylene, ethylene, phenylene and naphthylene groups when Y represents sulfur, A represents an organic group selected from the group consisting of vinylene, phenylene and naphthylene groups when Y represents oxygen. A represents an organic group selected from the group consisting of vinylene, ethylene and phenylene groups when Y represents selenium, A represents an organic group selected from the group consisting of vinylene, phenylene and naphthylene groups when Y represents a vinylene group, A represents a phenylene group when Y represents a dialkylmethylene group, D represents an organic group selected from the group consisting of vinylene and phenylene groups and R represents an alkyl group.

2,165,220

CALCULATING MACHINE FOR EFFECTING DIVISION

James W. Bryce, Bloomfield, N. J., and Arthur H. Dickinson, Brooklyn, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York

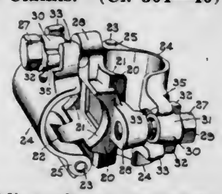
Application June 29, 1934, Serial No. 733,076
23 Claims. (Cl. 235—61.8)



3. In a dividing machine, a dividend entry receiving accumulator, a divisor entry receiving means, means for entering dividend and divisor values, cyclically operable means under control of the divisor receiving means for subtracting a divisor value from the dividend accumulator, means for causing said cyclically operable subtracting means to perform successive subtracting operations, a nine-tenths divisor value representing means, means for causing said means to represent a nine-tenths divisor value, normally ineffective means controlled by said nine-tenths

divisor value representing means for adding a nine-tenths of the divisor value into said dividend receiving accumulator, a column shift means for determining the denominational routing of subtractive and additive entries into the dividend accumulator, means cooperating with said dividend accumulator for detecting an overdraft therein resulting from successive subtractions of the divisor from the dividend, and means controlled by said overdraft detecting means upon detecting an overdraft for terminating the operation of said cyclically operable subtracting means, for causing operation of the column shift means, and for causing an operation of said nine-tenths divisor adding means to enter nine-tenths of the divisor into the dividend accumulator following column shift, whereby a remainder represented as a true number will be contained in said accumulator.

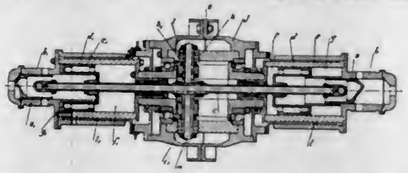
2,165,221
SCAFFOLDING CLAMP
John Burton, Edgbaston, Birmingham, England
Application December 24, 1936, Serial No. 117,590
In Great Britain July 3, 1936
14 Claims. (Cl. 304—40)



6. A scaffolding clamp comprising a pair of jaws adapted releasably to engage a scaffolding member, a pivot connecting said jaws hingedly at one side thereof, clamping means for connecting said jaws releasably at the other side thereof, said clamping means including a forked portion on one of said jaws forming a pair of spaced abutments, a clamping bolt adapted to screw onto the other of said jaws, a locking member mounted on said bolt, said locking member including a hollow boss through which the bolt passes and a pair of abutments projecting radially from said boss at diametrically opposite positions relative to said bolt, a head on the projecting end of said bolt, said bolt having a channel in its shank below said head, a retaining member in said channel, said locking member being capable of rotation on said bolt between a release position and a clamping position and said locking member in the clamping position being located between said spaced abutments, with the abutments on said locking member engaging both of said spaced abutments to apply the clamping pressure on diametrically opposite sides of the bolt and in a plane extending through the axis of the bolt and parallel to the length of the jaw.

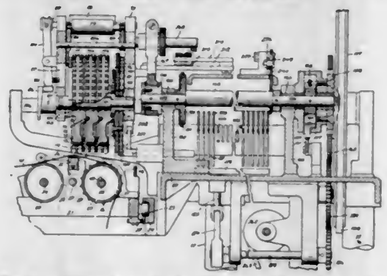
2,165,222
ENGINE AND ENGINE COMPRESSOR
Henri Capdet, Toulouse, France
Application May 28, 1934, Serial No. 728,040
In France June 3, 1933
1 Claim. (Cl. 123—56)

An internal combustion engine which comprises, in combination, two cylinders mounted in line with each other in opposite relation, each cylinder having three working chambers, one for combustion, one for pre-compression of the charge supplied to the combustion chamber, and the third for compression of a fluid separate from the charge, a piston in each of said cylinders, each piston having three operating faces corresponding with the three chambers of the corresponding cylinders, respectively, and means for rigidly interconnecting said two pistons, said cylinders forming a single casing provided at each end with an inwardly extending cylindrical projection leaving an annular space between itself and the inner wall of the corresponding cylinder and provided in its intermediate part with a partition having a hole formed therein, said pistons being hollow and open at their outer ends so as to fit in said annular space, said inter-



connecting rigid means consisting of a rod fitting slidably in the hole of said partition, whereby each combustion chamber is formed between each of said projections and the inside of the corresponding piston end, each fluid compression chamber is formed by the annular space around each of said projections, as limited by the outer edge of the corresponding piston end, and each pre-compression chamber is formed between said partition of the casing and the rear face of each of said piston ends respectively, said casing and said hollow piston ends being provided with ports and at least one passage for interconnecting said chambers.

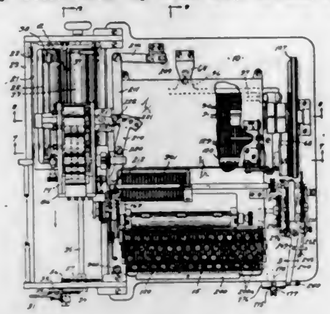
2,165,223
POWER-OPERATED TYPEWRITER
Clifton Chisholm, Cleveland, Ohio, assignor of thirty-five per cent to Henry C. Osborn, Cleveland, Ohio
Application February 5, 1936, Serial No. 62,467
8 Claims. (Cl. 197—84)



7. In a printing machine, a plurality of fonts of type, certain type of each font varying in width from other type in the same font and corresponding type in the different fonts varying in width from each other, a work holder, key operated means to progress the work holder a distance equivalent to the width of the type impressed on the work, and change-speed mechanism whereby one key may be utilized to progress the work holder for corresponding type on either font.

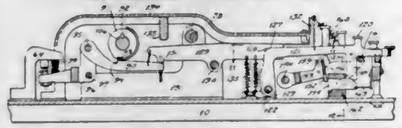
2,165,224
TYPEWRITING MACHINE
Clifton Chisholm, Cleveland Heights, Ohio
Application November 10, 1936, Serial No. 110,085
5 Claims. (Cl. 197—18)

1. In a printing machine of the keyboard type, a plurality of keys each having key levers, actuating means connected to said key levers, means controlled by a manual operation of the keys to cause the first-named means to act on said key levers, a printing mechanism adapted to be selectively controlled by said key levers, a single



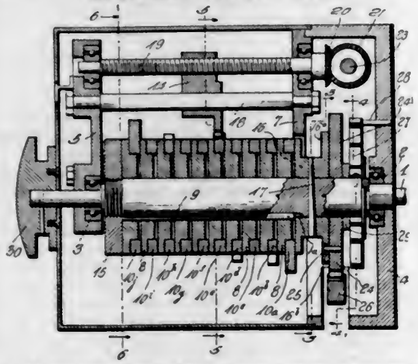
rotation clutch, a power-actuated mechanism, means to couple said clutch with the power mechanism consequent upon the operation of a key, and means operative by said clutch to cause the printing action to take place and to subsequently cause the key levers to be returned to their original position.

2,165,225
TYPEWRITING MACHINE
Clifton Chisholm, Cleveland, Ohio
Original application November 10, 1936, Serial No. 110,085. Divided and this application July 21, 1937, Serial No. 154,790
13 Claims. (Cl. 197—97)



10. In a printing machine of the keyboard type, the combination of a series of keys, a universal bar controlled thereby, means operated by said keys to limit the movement of the bar, and positive means to prevent rebound of said moved bar.

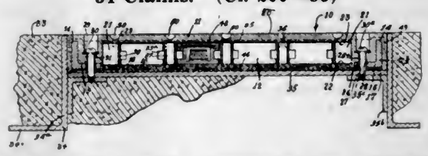
2,165,226
AUTOMATIC TUNING SYSTEM AND APPARATUS
Arthur A. Collins, Cedar Rapids, Iowa
Application August 25, 1937, Serial No. 160,920
12 Claims. (Cl. 192—142)



1. A mechanical shaft positioning system in-

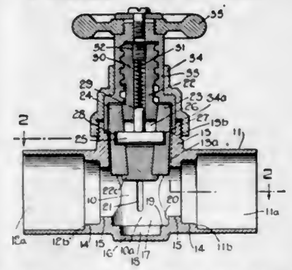
cluding a series of stop rings disposed axially on a shaft, a movable stop selectively adjusted for engagement with one of the stop rings, spring means connected with the shaft for urging said one of the stop rings in contact with said stop, and positive drive means for moving said shaft with said stop rings to a "home" position.

2,165,227
SWITCH
Benjamin Cooper, New York, N. Y.
Application October 1, 1932, Serial No. 635,727
34 Claims. (Cl. 200—86)



8. A switch unit comprising an elongated sheath having a top wall, side walls and a bottom wall, said bottom wall being formed with a raised portion forming a chamber of substantially channel-shaped cross-section within said sheath, the top portion of said chamber extending beyond the side portions of said chamber to form shoulders within said sheath, an elongated strip of metal having the edges thereof received on said shoulders, and an elongated strip of metal attached to the upper surface of said raised portion of said sheath and disposed below and parallel to said first strip.

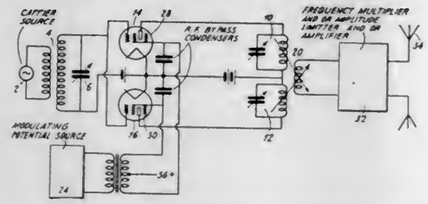
2,165,228
METHOD OF PRODUCING INTEGRAL WROUGHT METAL VALVE BODIES
Edward S. Cornell, Jr., Larchmont, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application January 14, 1936, Serial No. 59,031
2 Claims. (Cl. 29—157)



1. The method of producing an article of cold wrought integral metal predominantly of copper content having a body proper provided with end openings and a lateral extending from the body proper intermediate the end openings thereof, which comprises subjecting a substantially cylindrical solid mass of metal predominantly of copper content to a succession of cold fashioning operations by cooperating punches and plugs within an enclosed die to externally shape the resulting article and to progressively form the said end openings, steps in the said succession of fashioning operations comprising inserting into the lateral-forming recess of the die a plug slightly less in diameter than the diameter of the said lateral-forming recess, forcing the mass of metal to flow into the annular space between said plug and the

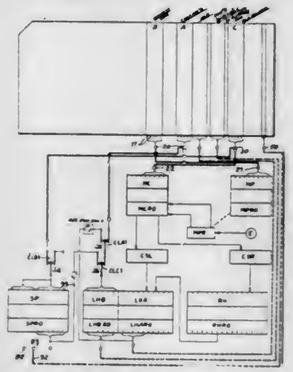
walls of said lateral-forming recess of the die for completely filling the same, removing the said plug, and closing the opening of the said lateral-forming recess of the die substantially flush with the wall endings of same, and forcing said mass of metal to completely fill the said lateral-forming recess of the die.

2,165,229
PHASE MODULATION
Murray G. Crosby, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application September 21, 1933, Serial No. 690,330
3 Claims. (Cl. 179—171)



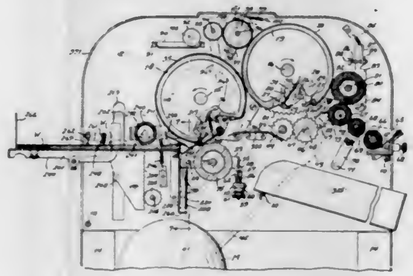
1. In a signalling system a source of carrier waves, a source of modulating potentials and a phase modulator comprising a pair of thermionic tubes, each having an anode, a cathode, a control grid and an auxiliary grid-like electrode, a circuit connected between the control grid and cathode of each of said tubes, said circuit being coupled to said source of carrier wave oscillations to apply oscillations of like phase to the control grids of said tubes, reactances tuned to different frequencies connected between the anode and cathode of each of said tubes, an output circuit coupled to the anodes of said tubes, and circuits connecting the auxiliary grid-like electrodes of said tubes in phase opposition to said modulating potential source.

2,165,230
MULTIPLYING MACHINE
James M. Cunningham, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 4, 1935, Serial No. 24,789
2 Claims. (Cl. 235—61.8)



1. In a machine of the class described, three accumulators, means for entering an amount in each, means for transferring the amounts in each of two of said accumulators in succession to the third in the form of nines complements settable means and means controlled by said settable means and operative in advance of said transferring for entering two elusive ones into said third accumulator.

2,165,231
PRINTING MACHINE
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application June 10, 1937, Serial No. 147,507
22 Claims. (Cl. 101—141)



1. A combination with a printing couple of a paper feed comprising a raisable table adapted to support a pile of sheets, said table extending beneath one member of the couple, stationary guides between the table and couple to direct said sheet first downwardly then upwardly diagonally and means for feeding the top sheet of the pile between said guides.

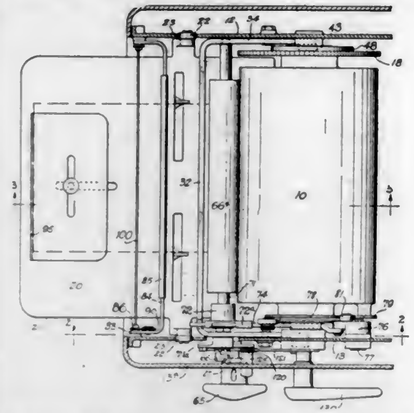
3. The combination of a printing couple one member of which is provided with a paper locator, means for shoving a sheet of paper into the mouth of the locator and continuing shoving against it until the sheet is gripped by the coaction of the couple, and a paper ejecting device coacting with the locator to direct the printed sheet toward a receptacle.

4. The combination of a printing couple, one member of which is provided with a paper locator, means for shoving a sheet of paper into the mouth of the locator, a paper ejecting device coacting with the locator to direct the printing sheet toward a receptacle, said ejecting device comprising a plate having spaced fingers at its forward edge, a part of the locator passing through the space between the fingers in the rotation of the drum.

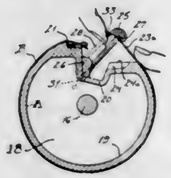
2,165,232
PAPER FEEDING MECHANISM
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Original application June 10, 1937, Serial No. 147,507. Divided and this application November 13, 1937, Serial No. 174,394
10 Claims. (Cl. 271—22)

1. In a paper feed mechanism, the combination of a means for supporting a stack of sheets, a roller adapted to engage the endmost sheet, a carriage in which said roller is rotatably mounted, a guideway on said carriage, a rack geared to the roller and mounted in said guideway, and means pivotally connected with said rack to reciprocate the rack to rotate the roller first in one direction

and then in the other direction, a rotary cam to actuate said lever, and means to move said carriage and rack and roller toward and away from the stack.



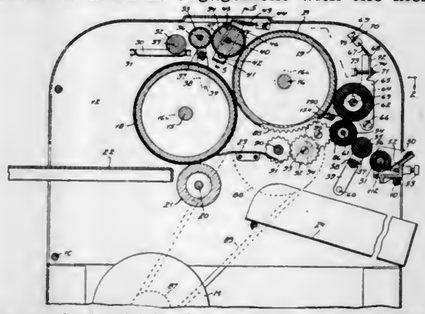
2,165,233
MEANS FOR ATTACHING PRINTING PLATES ON DRUMS
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Original application June 10, 1937, Serial No. 147,507. Divided and this application November 13, 1937, Serial No. 174,395
17 Claims. (Cl. 101—415.1)



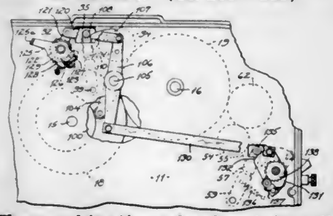
13. The combination of a drum having means for attaching one end of a plate, a bodily shiftable bar carried by the drum in such manner that it may stand outside the outer face of a plate wrapped around the drum at the other end of such plate, said bar having inwardly projecting teeth adapted to occupy openings in such other end of the plate, and spring means acting on the bar and tending to move it inwardly of the drum and also away from the edge of the plate to tension the plate and hold it firmly on the drum.

2,165,234
MATERIAL APPLICATOR FOR PLANOGRAPHIC PRINTING MACHINES
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application November 13, 1937, Serial No. 174,396
17 Claims. (Cl. 101—148)

1. In a planographic printing machine, having a plate cylinder, an ink feed for the plate cylinder, a repellant feed for the plate cylinder, each of said feeds including a movable ductor, means for moving the ductors, said means including movable members frictionally connected with the ductors and arranged and adapted to permit the ductors to dwell in engagement with the members against which they are moved while said movable members continue their movement.

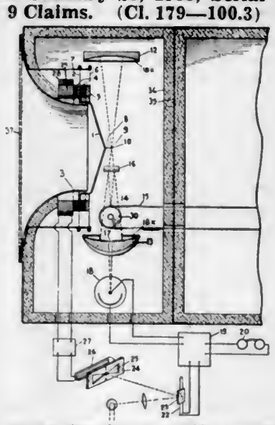


2,165,235
MATERIAL APPLICATOR FOR PLANOGRAPHIC PRINTING MACHINES
Franklin E. Curtis, Willoughby, Ohio, assignor to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application September 10, 1938, Serial No. 229,242
10 Claims. (Cl. 101—148)



10. The combination of a fountain roll, a ductor roll, mechanism for moving the ductor roll into contact with the fountain roll and positively holding it there for an appreciable time by means independent of friction of resiliency, and means by which said mechanism during said holding time continues its movement to turn the fountain roll.

2,165,236
METHOD OF AND APPARATUS FOR RECORDING AND REPRODUCING OF SOUND
Leon Dewan, New York, N. Y., assignor of fifty per cent to George H. Callaghan, New York, N. Y.
Application January 26, 1935, Serial No. 3,635
9 Claims. (Cl. 179—100.3)



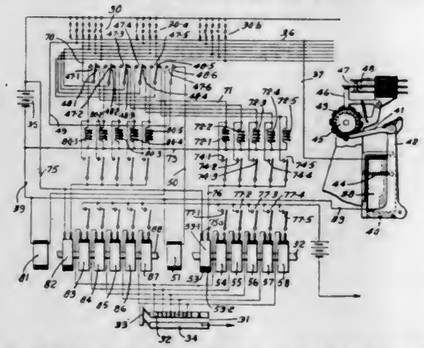
1. In an apparatus for recording sound, a light

source, a diaphragm actuated by sound waves in air in accordance with the instantaneous value of the sound, a light modulator coupled to and operated by the diaphragm, a photographic film to receive a sound track, a main support for holding said diaphragm at a tension resulting in a sub-audible natural period of vibration of said diaphragm, and additional means comprising a cushion support intermediate of the main support and the center of the diaphragm for yieldably holding the diaphragm at zero position in the plane of vibration.

2,165,237
COMMUNICATION SYSTEM

Charles R. Doty, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 23, 1936, Serial No. 117,269
9 Claims. (Cl. 178—79)



1. A communication system of the character described comprising, in combination, means to initiate character signal impulses, distributor means to impart character signals to a transmission line, groups of impulse storing means, and means controlled by the initiating means to connect alternately the groups of the storing means with the said initiating means and distributor means.

2,165,238
VALVE FOR INTERNAL COMBUSTION ENGINES

George W. Douglas, New York, N. Y., and John Joseph Dewey, Greenwich, Conn.; said Dewey assignor, by mesne assignments, to Douglas Automotive Corporation, New York, N. Y.

Application March 21, 1936, Serial No. 70,122
4 Claims. (Cl. 123—90)

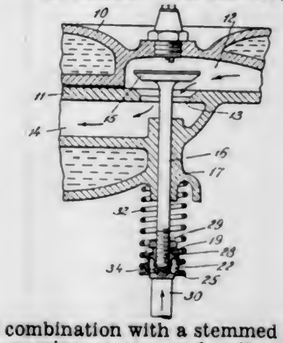


1. In combination with a valve and valve stem, spring means for normally seating said valve, operating means for unseating said valve against the action of said spring, a member carried by said stem and secured thereto adjacent one extremity of said stem so as to be reciprocable and rotatable thereon for retaining said spring under compression, said member being capable of movement on said stem so that its outer surface may extend past said extremity of said stem, said operating means being provided with a rigid element for directly engaging said retaining member and a resiliently urged element for directly engaging said valve stem.

2,165,239
ROTATING AND ADJUSTABLE POPPET VALVE

George Warren Douglas, New York, N. Y., and John Joseph Dewey, Greenwich, Conn.

Application December 9, 1936, Serial No. 114,946
11 Claims. (Cl. 123—90)



1. In combination with a stemmed poppet valve having opening means and coil spring closing means, a shoulder on the stem, a cage normally urged into engagement with said shoulder by the spring means, said cage being reciprocable and freely rotatable in opposite directions relatively to said valve stem, a second shoulder for limiting the reciprocating movement of said cage along said stem, said cage being adjustable along said stem to vary the effective length of the valve stem and an extension on said cage for engagement by said opening means to disengage said cage from said first shoulder, said cage being alternately rotated in opposite directions by the inherent twist and untwist of said spring during valve opening and closing for imparting its rotation to said valve stem by frictional contact with one of said shoulders.

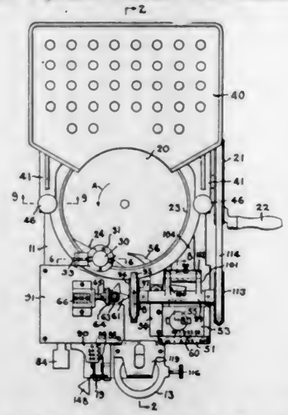
2,165,240
COIN COUNTING MACHINE

Clement Lee Downey, Cincinnati, Ohio

Application May 21, 1932, Serial No. 612,781
Renewed April 26, 1937
7 Claims. (Cl. 133—8)

2. In combination with a coin counting machine having a feed roller, a width gauge adjustably mounted adjacent to said feed roller, a pair of guides for said gauge, said gauge and one of said guides provided with registering indicia, one of said guides provided with a cam face, and a deflector pivoted to said gauge provided with a heel co-acting with said cam face.

6. In combination with a coin counting machine having a star wheel, means for feeding coins past the star wheel, and a ratchet wheel for step by step movement by and under the control of the star wheel, of a plurality of sets of stop pins associated with the ratchet wheel, the sets of pins being spaced at various radii from the center of the ratchet wheel, a fork slidable to various positions radially of the ratchet wheel and having one of its ends shiftable toward and from the ratchet wheel independent of the radial adjustment thereof relative to the ratchet wheel, a pivotally mounted, spring pressed stop lug on the fork adapted to be selectively moved into the path of the various sets of stop pins by radial adjustment of the fork relative to the ratchet wheel whereby the stop lug may be contracted by a stop pin for holding the ratchet wheel and star wheel against further movement and the

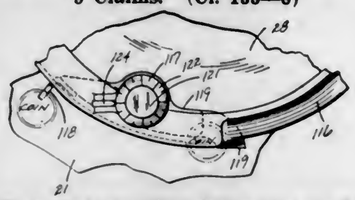


stop lug may be moved against the yielding influence of its associated spring, and means for shifting the one end of the fork relative to the ratchet wheel for separating the stop lug and the stop pin and for permitting the stop lug to respond to the yielding influence of its associated spring.

2,165,241
COIN COUNTING MACHINE

Clement L. Downey, Cincinnati, Ohio

Application August 26, 1935, Serial No. 37,891
5 Claims. (Cl. 133—8)



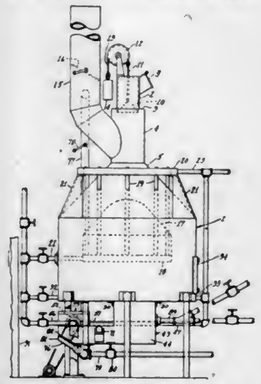
1. In a coin counting device the combination of a platform, a revolubly mounted disk for imparting centrifugal force to coins disposed thereon, the disk and the platform having their upper faces disposed in the same plane, a flange on the platform extending about the disk, the flange having a pair of openings therein, one of said openings communicating with a raceway, a thickness gauge positioned adjacent said openings and disposed above the disk and having an under face in substantial parallelism with the upper face of the disk, and a finger carried by the gauge extending through the second of the openings in the flange, said finger having a lower face disposed at the same distance above the platform as the distance between the disk and the under face of the gauge whereby adjustment of the finger in relation to the top face of a coin disposed on the platform simultaneously effects identical adjustment of the under face of the gauge relative to the upper face of the disc.

5. In combination with a coin counting machine having a rotating centrifugal disk, a raceway leading from the disk, a feed roller for feeding coins along the raceway and means for counting coins passing along the raceway, of a width gage adjustably mounted adjacent said feed roller, a pair of guides for said gage, a coin stop on one of the guides, said gage and the coin stop on said one of said guides providing cooperating means for receiving coins of various diameters for establishing various widths of the raceway, one of said guides provided with a cam face, and a deflector extending over the disk, pivoted to said gage, and provided with a heel co-acting with said cam face for adjusting the position of the deflector relative to the disk and the raceway in conformity with other width adjustments of the raceway.

2,165,242
MEANS WHEREBY MINERALS MAY BE MELTED

Daniel C. Drill, Wabash, Ind., assignor to American Rock Wool Corporation, Wabash, Ind.

Application January 6, 1936, Serial No. 57,791
5 Claims. (Cl. 263—30)



1. In apparatus of the character described, a gravity fed blast furnace for melting mineral materials of the type characterized when melted in the presence of the heated products of combustion by having a fluxing action upon refractory substances and by being adapted to be shredded into mineral wool, said furnace having a roof portion provided with a material input communicating with the interior of said furnace through said roof portion, a refractory wall portion, a base portion provided with a centrally positioned hollow metal combination water-cooled molten material outlet and blast fuel input means and being adapted to support a molten pool reservoir of said materials communicating with said combination outlet and input means, said furnace being also provided with a refractory baffle supported and shielded at its periphery with a hollow metal ring communicating with and supported by substantially vertical water pipes passing through said roof portion, said ring and said pipes being adapted to be operatively connected to a water supply system.

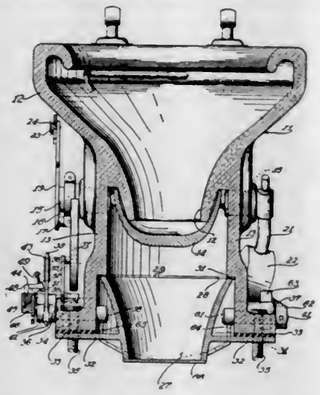
2,165,243
WATER CLOSET

Sven Duner, Wheaton, Ill., assignor to Duner Co., Chicago, Ill., a corporation of Illinois

Application December 18, 1936, Serial No. 116,568
4 Claims. (Cl. 4—76)

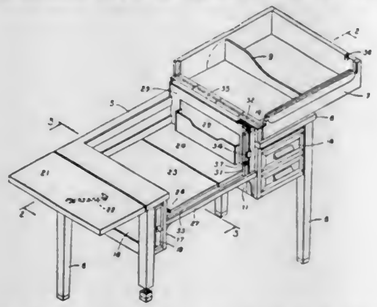
1. A water closet, comprising a bowl having a lower open end, a stand portion formed integrally with said bowl for supporting the same and hav-

ing a lower open end, a dump pan mounted in said stand portion adjacent the lower open end of said bowl, and a closure member mounted in



the lower open end of said stand portion and adapted to be removed therefrom to provide access to said dump pan.

2,165,244
DESK
James F. Dunn, Washington, D. C.
Application March 30, 1938, Serial No. 198,885
1 Claim. (Cl. 45—91)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In a desk, a central portion, a pedestal on either side of and extending to a higher altitude than the central portion to provide a well, the pedestals accommodating compartments, a sliding flexible member adapted to close the front of the well, a guide-way extending between the pedestals in which the said member operates, a hinged cover for the well adapted to provide a tray when opened, a channelway in the cover in which the flexible member rests when the cover and member are in closed positions, and pivotal means in the cover to divide it into compartments when opened.

2,165,245
GAFF HOOK
Alonzo R. Eastman, Portland, Oreg.
Application July 21, 1937, Serial No. 154,774
14 Claims. (Cl. 43—5)

1. A device of the character described comprising a handle element and a hook carried thereby, said handle element being tubular, said hook being provided with a shank adapted to seat in the bore of said tubular handle element, and an elongated cable joining said hook and han-

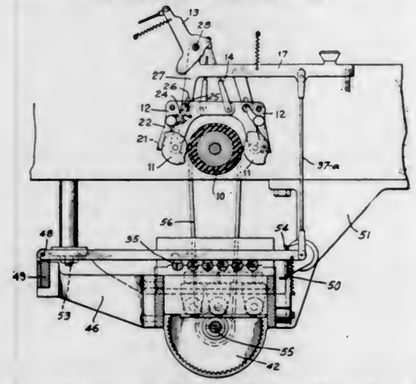


dle elements being of such length as to permit unseating of the hook shank.

2,165,246
APPARATUS FOR PROJECTING AERIAL SIGNS
Gordon C. Edwards, Toronto, Ontario, Canada
Application November 13, 1936, Serial No. 110,751
2 Claims. (Cl. 88—24)

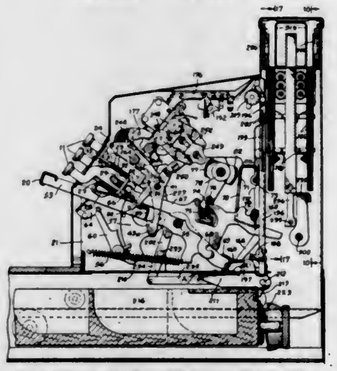
1. In a machine for projecting aerial signs, the combination of a rotary platform, a lamp housing mounted on one end of said platform, a tiltable mirror mounted on said platform at the other end thereof, means operable adjacent to said housing for tilting said mirror, a lamp mounted in said housing, means located in said housing for directing the light from said lamp towards said mirror, a stencil carried by said housing and receiving the light from said lamp, a longitudinally slotted rotatable shaft extending lengthwise of said platform, a rack extending parallel with said shaft, said rack having a spiral thread thereon, a lens holder movable along said platform, a lens mounted in said holder for projecting the light transmitted through said stencil on to said mirror, said lens holder having an interior housing through which said shaft extends loosely, a sleeve encircling said shaft within said housing in said lens holder and having an interior key slidable in the slot in said shaft, said sleeve also having a spiral thread meshing with the thread on said rack whereby on the rotation of said shaft said sleeve will progress longitudinally of said shaft and cause coincident movement of said lens holder, and means for rotating said shaft.

2,165,247
TELETYPEWRITER
Clyde J. Fitch and Kurt R. Schneider, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 2, 1936, Serial No. 113,799
13 Claims. (Cl. 178—23)



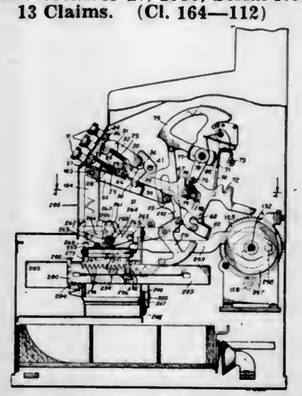
1. A device of the character described comprising, in combination, a keyboard comprising a plurality of operable key bars, a plurality of rotatable permutation members associated therewith, means to rotate predetermined combinations of said members and means to effect selection of certain of said key bars directly upon rotation of the said members.

2,165,248
CASH REGISTER
Frederick L. Fuller, West Orange, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 26, 1936, Serial No. 87,333
7 Claims. (Cl. 235—8)



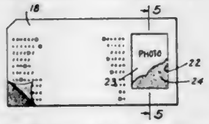
1. In a cash register, the combination with a differentially positionable actuating frame comprising a transverse bar, of a plurality of pivoted cam plates having graduated cam slots normally out of cooperation with said frame, a common operating member for rocking said cam plates, and a plurality of depressible keys connected to said cam plates at their pivots for coupling the selected cam plate with the common operating member and concurrently correlating the cam slot of the cam plate with said transverse bar.

2,165,249
CARD PUNCHING MACHINE
Frederick L. Fuller, West Orange, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 17, 1936, Serial No. 116,251
13 Claims. (Cl. 164—112)



1. In a punching machine, in combination, a plurality of sets of manipulative devices, selected ones of each set being pre-set manually prior to a punching operation, a plurality of differentially positioned punch pin carrying bars, one for each set of manipulative devices, and each provided with a punch pin and a cooperating die hole between which a card is positioned, a set of cam plates for each set of manipulative devices, the cam plate of each set having graduated cam slots and each cam plate being connected to the related manipulative device for selection thereof, a differentially positionable frame connected to each punch pin carrying bar and carrying a rod cooperating with the cam slot of the cam plate selected by the pre-set manipulative device, common means for rocking the selected cam plates, and means for operating the punch pins to effect a punching operation.

2,165,250
STATISTICAL CARD
Harry O. George, Vestal, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 1, 1936, Serial No. 113,563
1 Claim. (Cl. 283—1)

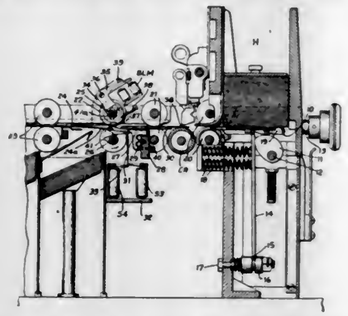


A statistical card for use in controlling statistical and accounting machines of the type described comprising a laminated card consisting of a plurality of layers of paper adhesively united, an opening in one of said layers so as to expose the adhesive, and an insert adapted to be positioned in said opening and secured to another layer of said card by the exposed adhesive.

2,165,251
SORTING MACHINE
Emerson W. Gifford, Teaneck, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 31, 1937, Serial No. 133,934
10 Claims. (Cl. 209—110)

1. In a sorting machine, a series of sorting

pockets, a sorting station and a series of guide blades leading from the sorting station to the pockets, solenoids located at the sorting station and having individual connections to the sorting blades whereby each solenoid actuates one of said



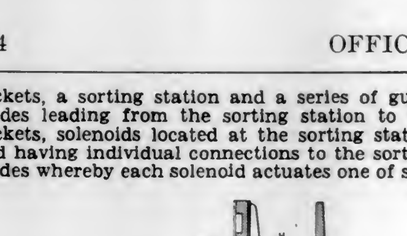
blades, means to normally progressively energize the solenoids, a sorting brush for sensing designations in a column of a record, and means controlled by the sorting brush for interrupting the energization of the solenoids in accordance with the value of a designation sensed by the brush.

2,165,252

PHASE MODULATION RECEIVER

Hallan Eugene Goldstine, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application February 10, 1937, Serial No. 125,080
11 Claims. (Cl. 250—20)



1. The method of demodulating wave energy modulated in phase which includes the steps of attenuating wave frequencies remote from the carrier frequency to thereby distort the phase modulation so that it has a characteristic of frequency modulation, and demodulating said resulting distorted energy.

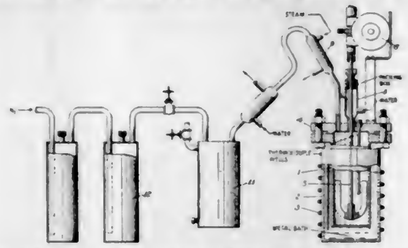
2,165,253

PREPREPARATION OF POLYAMIDES

George De Witt Graves, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 13, 1936, Serial No. 105,425
In Germany July 15, 1936
6 Claims. (Cl. 260—78)

1. A process for obtaining in large quantities light-colored polyamides which comprises heating under polyamide-forming conditions in the substantial absence of oxygen a polyamide-forming composition in a reaction vessel suitable for large scale production which comprises a non-oxidizing metal of the group consisting of silver, tantalum, and a chromium-containing metal and which presents said metal, and essentially only said metal, in contact with the polyamide-forming



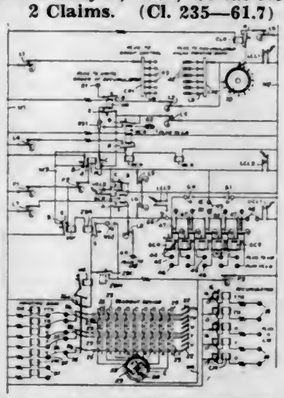
composition contained therein, and continuing the heating until said polyamide is obtained.

2,165,254

RECORD CONTROLLED MACHINE

Alvin E. Gray, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application May 2, 1934, Serial No. 723,463
2 Claims. (Cl. 235—61.7)



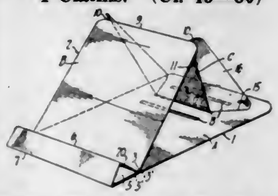
1. In a record controlled machine, automatic group control mechanism adapted to be split into several sections, including machine control elements each controlled by one of said sections, one of said elements initiating a minor total cycle and the other a major total cycle, an accumulator, and means controlled by one of said elements for causing a unit to be entered into the accumulator each time a total cycle is initiated by said element.

2,165,255

BOOK SUPPORT

John Hamilton, San Francisco, Calif.

Application July 26, 1937, Serial No. 155,667
4 Claims. (Cl. 45—80)



1. In book supports, a pair of elongated flat cardboard blanks of substantially similar size for forming a book support, said blanks being

arranged one over the other with their corresponding edges in substantial alignment and with adjacent flat surfaces together, means securing said blanks together along one of their end margins, with the opposite end edges free, one of said blanks being formed with transversely extending parallel creases adjacent the connected ends of the blanks for successive bending along said creases in one direction to form a transversely extending substantially triangular-shaped ledge along the connected margins of the blanks with said margins forming the base of said ledge and with the major portion of the blank being adapted to move as a result of said bending through an arc of 360° to lie along the opposite surface of the other blank, said other blank being formed with a transversely extending crease generally centrally of its ends for forming the sides of a generally triangular-shaped body with the first mentioned blank forming the base thereof after the said 360° movement of the first mentioned blank, and means for detachably connecting the blanks together adjacent their free ends after bending the blanks to form the triangular-shaped body.

2,165,256

RADIO BEACON

Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application March 30, 1935, Serial No. 13,812
6 Claims. (Cl. 250—11)



5. A radio beam transmitting system comprising four short wave directive radiators arranged with their directive axes aimed one above, one below, one to the right, and one to the left of an intended landing path for aircraft, means for modulating the short waves of said radiators by voiced enunciations of directional significance appropriate to each radiator, means for applying said enunciations periodically and sequentially to the respective modulating means of each radiator, and means for maintaining the repetition rate of the enunciations in agreement with the repetition rate of application of the modulations to the respective radiators.

2,165,257

COLORING ACETATE ARTIFICIAL SILK

Richard Walter Hardacre, Norman Ellershaw Holden, and Cecil Shaw, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application April 14, 1938, Serial No. 202,128. In Great Britain April 21, 1937
2 Claims. (Cl. 8—50)

1. Process for coloring acetate artificial silk, which comprises the application thereto of 1-amino-4-p-benzene-azo-anilino-anthraquinone-2-sulfonic acid.

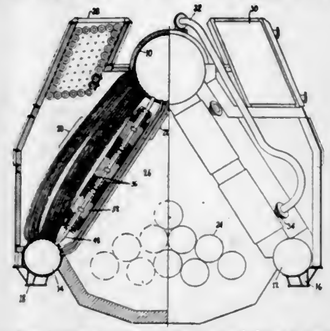
2,165,258

FLUID HEAT EXCHANGE APPARATUS

Ralph M. Hardgrove, Westfield, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey

Application August 29, 1935, Serial No. 38,345
9 Claims. (Cl. 122—473)

6. In a fluid heater, a series of superposed tubes in the form of loops extending into a gas pass, means forming walls defining the gas pass, means for supporting the tubes at the ends of the loops and along one of said walls, a fluid cooled tubular member in the nature of a column extending



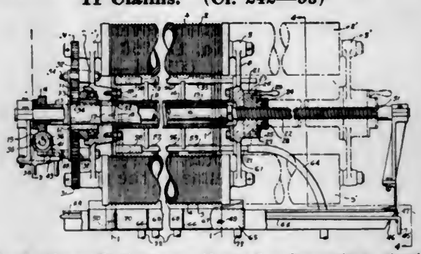
through the loops, means in good heat exchange relationship with said member for fixing the tubes to said member so that the latter acts as a support for the loops, and means for connecting said member into a fluid circulation.

2,165,259

THREAD STORE DEVICE

Emerson B. Helm, Cleveland, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application March 23, 1936, Serial No. 70,238
11 Claims. (Cl. 242—53)



7. A thread-storage, thread-advancing device comprising thread-advancing members offset from and extending lengthwise of each other; means operating on one or more of said thread-advancing members to cause them to cooperate during normal operation of said thread-storage, thread-advancing device to advance in a plurality of spaced generally helical turns thread that has previously been wound about said thread-advancing members; a frame supporting said thread-advancing members and adapted to be rotated about an axis extending generally longitudinally of said thread-advancing members; and means for winding the thread about said thread-advancing members during rotation of said frame.

2,165,260

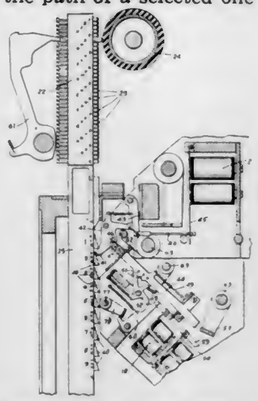
PRINTING MECHANISM

Louis J. Herman, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application June 26, 1937, Serial No. 150,462
5 Claims. (Cl. 101—93)

1. In a printing machine, in combination, analyzing means for successively searching index point positions in a column of a record card, a type bar having a plurality of sets of stepped stopping ledges, means for moving said bar, a

stopping element positionable into the path of said ledges, means controlled by said analyzing means for selectively moving said stopping element into the path of a selected one of said sets



of ledges and further means controlled by said analyzing means for selecting one of said ledges in the selected set for engagement by the stopping element.

2,165,261

STABILIZED KEROSENE

Amiot P. Hewlett, Westfield, and Gerald E. Phillips, Cranford, N. J., assignors to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application November 28, 1936, Serial No. 113,250

10 Claims. (Cl. 44—8)

1. A stabilized refined oil consisting of a petroleum distillate having a boiling point range of from about 300° to about 600° F. and having a flash point of more than 100° F., and a lower aliphatic ketone in an amount between about .025% and about 0.25% by volume of the petroleum distillate.

2,165,262

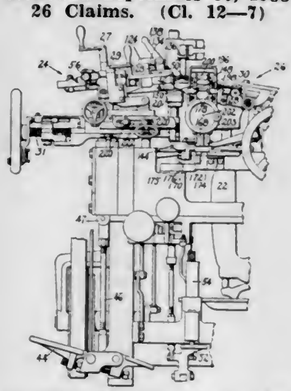
MACHINE FOR SHAPING UPPERS OVER LASTS

Charles E. Hood, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application July 27, 1936, Serial No. 92,816

Renewed September 30, 1938

26 Claims. (Cl. 12—7)



1. In a machine for shaping over lasts uppers provided with insole-attaching margins and provided also with outturned outsole-attaching margins, a clamping plate constructed and arranged to engage an end portion of an upper on its last and to support the upper by engagement with its outsole-attaching margin, and an end lasting wiper for laying the insole-attaching margin of the upper over upon the margin of the insole.

2,165,263

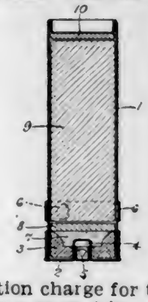
CARTRIDGE FOR THE GENERATION OF GAS PRESSURES

John Macfie Holm, Pollokshields, Glasgow, Scotland, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application June 18, 1937, Serial No. 148,949

In Great Britain July 6, 1936

22 Claims. (Cl. 102—12)



1. In a combustion charge for the slow generation of gas pressure comprising a multiplicity of charge elements, one of which is incapable of supporting its own combustion when ignited locally at atmospheric pressure by means ineffective to heat the whole of it substantially above atmospheric temperature but capable of supporting its own combustion when ignited under the pressure generated by the combustion of a preceding element under the conditions of operation, a combustible element comprising compacted nitroguanidine.

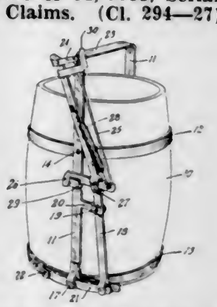
2,165,264

JAR LIFTER

George W. Hubbard, La Salle, and David E. Hubbard, Brighton, Colo.

Application October 31, 1938, Serial No. 237,894

4 Claims. (Cl. 294—27)



1. A jar lifting device comprising: an inverted U-shaped frame; an upper circular clamping band secured in said U-shaped frame; a lower clamping band supported at the lower extremity of said frame, one extremity of the latter band being slidably over-lapped; a clamping lever extending upwardly along one leg of said frame; means for pivoting said clamping lever intermediate its extremities on said frame; and means for connecting the lower extremity of the said clamping lever to the over-lapped extremity of said clamping band.

2,165,265

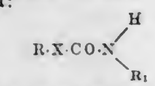
PROCESS OF IMPARTING HYDROPHOBIC PROPERTIES TO CELLULOSE FIBERS

Franz Emil Hubert, Dessau-Ziebigk, Erwin Heisenberg, Leipzig, and Adolf Steindorff and Ludwig Orthner, Frankfort-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application May 21, 1936, Serial No. 81,122. In Germany May 11, 1935

5 Claims. (Cl. 91—70)

1. The process of imparting hydrophobic properties to cellulose fibers by impregnating the fibers in a bath which contains compounds of the general formula:



wherein R stands for a radical selected from the group consisting of aliphatic and cycloaliphatic radicals containing at least 4 carbon atoms, X stands for a member selected from the group consisting of O, NH, N.alkyl and R_1 stands for a member of the group consisting of hydrogen and aliphatic hydrocarbon radicals, and at most 5 per cent. of aldehyde, and heating them after the impregnation.

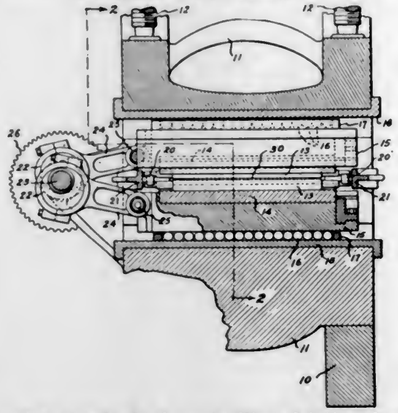
2,165,266

NEEDLE ROLL COLD REDUCTION MILL

Edwin B. Hudson and Robert S. Burns, Middletown, Ohio, assignors to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Application January 12, 1938, Serial No. 184,645

9 Claims. (Cl. 80—31.1)



1. That method of controlling frictional relationships in a pull-mill, which includes the steps of supporting the working rolls throughout their operative length, and moving the working roll supports axially of said rolls.

2,165,267

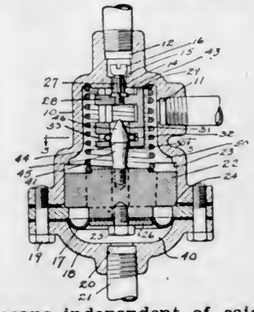
PRESSURE ACTUATED VALVE

Ralph C. Hughes, Anderson, Ind., assignor to Reynolds Gas Regulator Co., Anderson, Ind., a corporation of Indiana

Application September 4, 1936, Serial No. 99,395

2 Claims. (Cl. 137—153)

1. A pressure responsive valve comprising a valve body having inlet and outlet passages separated by a wall having a valve opening, a valve member adapted to open or close said opening, a stem secured to said valve member having an axially extending opening therein, a pressure responsive diaphragm, a cross mounted for vertical movement on said body and secured to said diaphragm, an axially extending cam carried by said cross and slidably extending into the opening in said stem, said cross acting to guide said cam for movement in an axial direction, means independent of said diaphragm and said valve member to limit the movement of said cross, resilient means carried by said stem intermediate the ends of the opening therein and adapted and arranged to coact with said cam to move the valve member relative to said diaphragm, said cam coacting with the walls of the axial opening in said stem to guide the movement of said stem, and wherein said cam is arranged and adapted to permit a limited universal movement of said valve member to thereby insure seating of said valve.



2,165,268

FLOTATION OF OXIDE ORE MINERALS

Mikael Vogel-Jorgensen, Frederiksberg, near Copenhagen, Denmark, assignor to Separation Process Company, a corporation of Delaware

No Drawing. Application June 30, 1937, Serial No. 151,203. In Great Britain July 17, 1936

5 Claims. (Cl. 209—166)

1. The method of concentrating oxide ore minerals by froth flotation which comprises introducing substantially completely pre-saponified acid-refined talloel in an aqueous ore mineral pulp and agitating and aerating the pulp in the presence of said saponified talloel.

2,165,269

AUTOMOBILE HEATER

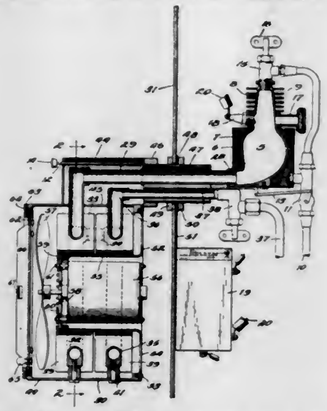
William Karsel, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application March 11, 1936, Serial No. 68,179

5 Claims. (Cl. 237—12.3)

3. The combination with a vehicle having an internal combustion engine and a closed body having a wall with a hole extending therethrough, of a combustion chamber mounted outside the body adjacent to the engine, means for supplying fuel to the combustion chamber, a spark plug for igniting the fuel in said combustion chamber, a pipe passing through said hole in said wall, means for securing said pipe to said wall, a housing within the body of the vehicle carried by said pipe, a radiator mounted in the housing, a combined supply and supporting pipe from the radiator extending through said first named pipe and connected with the combustion chamber and adapted to support the same, an outlet pipe from the radiator leading through said

first named pipe and connected with a point of suction provided by the vehicle engine, a support

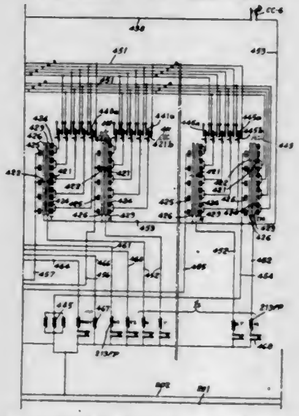


also carried by said first named pipe, and a vibrating coil mounted on said support and adapted to supply current to said spark plug.

2,165,270
COTTON BLEACHING
Hans O. Kauffmann, Buffalo, N. Y., assignor to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y.
No Drawing. Application February 10, 1937, Serial No. 125,113
6 Claims. (Cl. 8—109)

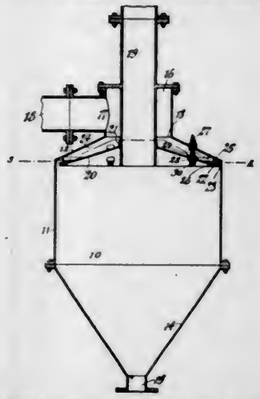
1. The method of bleaching cotton goods which comprises treating the goods with a hypochlorite solution having a pH value of between about 4.5 and 7 and then incorporating in the goods sufficient peroxide bleaching solution containing a high concentration of peroxide to dampen the goods and permitting the goods to bleach in the damp condition.

2,165,271
MULTIPLYING MACHINE
Harold Hall Keen, Letchworth, England, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 6, 1935, Serial No. 9,531
In Great Britain April 6, 1934
3 Claims. (Cl. 235—61.6)



1. In a multiplying machine, an accumulator having a plurality of denominational order entry receiving sections, a separate readout mechanism for each section, accumulating mechanism controlled thereby, the readout mechanism of the units order section being arranged to control a part of the accumulating mechanism in accordance with the digit entered in said units order section, means associated with the higher denominational order sections for determining whether they contain an even or an odd digit, means controlled by said determining means for causing the readout mechanism of the tens order section to control a further part of the accumulating mechanism to receive unity if the digit in the tens order section is odd and further means controlled by said determining means for causing the readout mechanism of each of the remaining orders, except the highest, to control a still further part of said accumulating mechanism in accordance with one-half of the sum of ten and the digit entered in the accumulator section when the digit in the next higher order section is odd.

2,165,272
EVAPORATOR
Martin J. Kermer, Buffalo, N. Y., assignor to Buffalo Foundry & Machine Co., Buffalo, N. Y., a corporation of New York
Application May 22, 1937, Serial No. 144,263
2 Claims. (Cl. 210—58)



1. A separator for evaporators adapted to separate crystals from liquors comprising a settling chamber provided in its lower part with an outlet for crystals and in its upper part with an outlet for liquid and also provided around said liquid outlet with an annular downwardly facing valve face, a liquor inlet conduit having its discharge end terminating in the upper part of said settling chamber, a vertically movable baffle arranged within the upper part of said settling chamber and surrounding said liquor inlet conduit and provided with an annular upwardly facing valve face opposite the valve face of the settling chamber, and means for adjusting said baffle vertically for varying the distance between said valve faces.

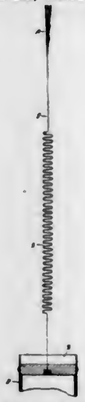
2,165,273
SHOCK ABSORBING DEVICE
Gregory J. Kessenich, Madison, Wis.
Application May 10, 1938, Serial No. 207,106
2 Claims. (Cl. 244—138)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A shock absorbing device comprising a flexible cable and a plurality of bent and bendable tubes strung on the cable and having one or more



folds in a common plane for yieldingly resisting straightening out when tension is applied to the cable and adapted to remain straightened out.

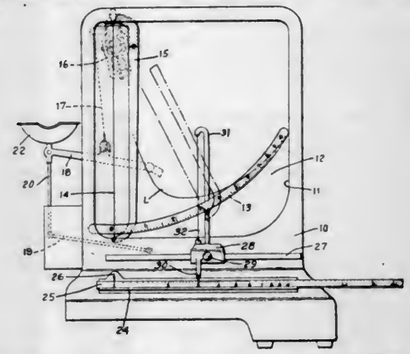
2,165,274
SHOCK ABSORBING DEVICE
Gregory J. Kessenich, Madison, Wis.
Application May 10, 1938, Serial No. 207,108
3 Claims. (Cl. 244—138)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A shock absorbing device comprising a flexible cable having a portion formed into folds, and a coating of yielding material applied on the folded portion normally maintaining the folds in a common plane and yieldingly resisting straightening thereof when tension is applied to the cable, said cable adapted to remain straightened out.

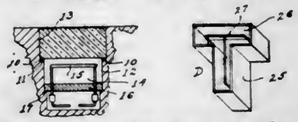
2,165,275
COMPUTING SCALE
Philip W. Kimball, Ashland, Mass., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application March 12, 1937, Serial No. 130,450
14 Claims. (Cl. 265—29)

1. A computing scale for computing a result which is a function of weight; comprising a device having a straight line element and movable variable distances in response to weight acting on the scale, means, relative to which the straight line element is movable, for coacting with different points of said element along its length for obtaining the logarithmic equivalents of the distances



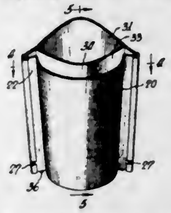
through which the device moves for the different weights acting on the scale, and means acting in conjunction with the point of coaction of the element and the first-named means for manifesting a result which is a function of the logarithmic equivalent of the active weight.

2,165,276
ADVERTISING AND WARNING SIGN
Ranch S. Kimball, Salt Lake City, Utah
Application July 23, 1936, Serial No. 92,082
1 Claim. (Cl. 40—132)



In a device of the class described, the combination of separate containers set into a ground surface having a predetermined surface outline; transparent covers formed in said containers; continuously formed illuminating elements the shape of the respective containers and arranged therein.

2,165,277
SANITARY DRINKING CUP
Herman Koch and James L. Burke, Weehawken, N. J., assignors to Eldorado Escalator Co., Union City, N. J., a corporation of New Jersey
Application December 10, 1935, Serial No. 53,698
27 Claims. (Cl. 65—61)



23. A drinking cup assembly comprising a conical holder structure having a pair of coacting separable longitudinal jaws, resilient means normally holding said jaws in closed position, and a sector-shaped paper blank formed as a conical container with its superposed lateral edges inserted between said jaws, said holder structure

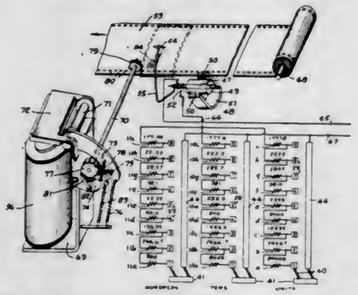
having grip means for stressing said resilient means to separate said jaws for insertion, removal and clamping of such blank.

2,165,278

GRAPH PRINTING TABULATOR

Ulrich Kölm, Berlin-Lankwitz, Germany, assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application September 30, 1933, Serial No. 691,589
In Germany November 14, 1932
13 Claims. (Cl. 235—61.9)



1. In an accounting machine, means for receiving data comprising a plurality of denominational order elements, an electric recording control circuit, a number of graduated resistances adapted to be connected selectively in said electric circuit, means under control of said receiving elements for selectively connecting certain of said resistances in said circuit according to the multi-denominational data received, and means in said circuit controlled by the current flowing through the circuit for making a graphical record of the date.

6. In a machine of the class described an accumulator comprising a plurality of denominational orders for receiving amounts, a plurality of commutators, one associated with each order in said accumulator, contact segments in said commutators, one for each digit, brush frames in said commutators adjustable to contact the segments corresponding to the amount registered in said accumulator, a plurality of sets of graduated resistances connected to the segments, the ohmage of resistances connected in each set varying inversely as the value of the amount in the related accumulator order, and the ohmage between sets differing by multiples of ten, an electric circuit in which the sets of resistances are connected in multiple through the brush frames, with the resistances in each set arranged in series, and a galvanometer in said circuit controlled by the variable current and adapted to print a graphical record of the amounts on a record sheet.

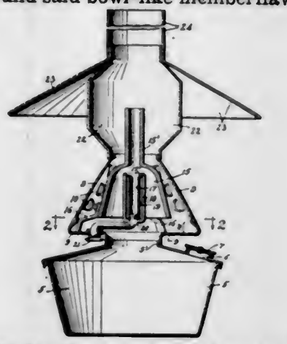
2,165,279

ORCHARD HEATER

Howard J. Lambert and Ellis R. Merifield, Los Angeles, Calif., assignors to said Howard J. Lambert

Application April 21, 1937, Serial No. 138,146
3 Claims. (Cl. 158—91)

1. In an oil burning heater, the combination with a bowl for fuel oil having an opening in its top, an inverted bowl-like member over said opening to receive products of combustion and gases from said opening, said member having a stem-like extension extending upwardly therefrom, means for admitting atmospheric air to the inside of said bowl-like member in alinement with said stem-like extension outlet therefrom, a shield around said bowl-like member having open-



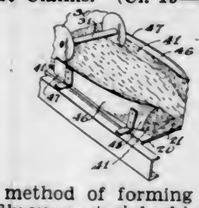
ings therein for the admission of air to the space around the outside of said bowl-like member within said shield, and a stack structure above said shield and said bowl-like member.

2,165,280

METHOD AND APPARATUS FOR FORMING A FIBROUS MAT

George M. Lannan, Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware

Application June 3, 1936, Serial No. 83,350
10 Claims. (Cl. 19—156)



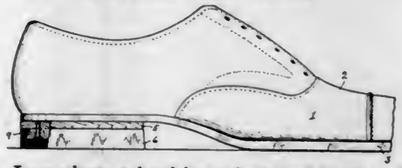
1. In the method of forming a mat of long, attenuated fibrous material which comprises depositing said fibrous material on an arresting surface by means of a gaseous vehicle, wherein a mat is produced which is thicker along the longitudinal center line than at the lateral margins, the steps of severing the lateral margins of said deposited material along longitudinal lines thereof, and turning the said lateral margins of said deposited material inwardly to overlie the remaining portion of said material immediately adjacent said margins respectively and form a unitary structure therewith.

2,165,281

DETACHABLE AND REPLACEABLE HEEL

Victor A. Lippert, Canton, Ohio, assignor of one-half to Richard D. Wernet, Canton, Ohio

Application May 13, 1937, Serial No. 142,447
4 Claims. (Cl. 36—36)



4. In a shoe, a heel base fastened to the shoe, and a rubber tread member, and interengaging portions for removably connecting said member

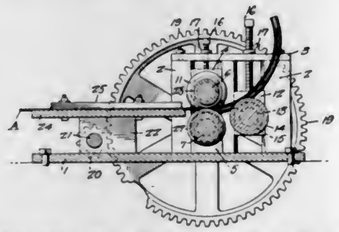
to said base and normally preventing removal movement of said member in all directions in its own plane, said interengaging portions comprising a continuous undercut wall on the lower side of said base and symmetrically related to the outer, lateral and inner side walls of the shoe heel and a continuous peripheral flange on said member normally extending upwardly therefrom and inwardly and having a cross section throughout its contour substantially complementary to the recess formed by said undercut wall, the width of said flange at its outer end being less than the height thereof, said flange being arranged to be expanded laterally over said undercut wall whereby it yieldingly engages therewitb to removably secure said member to said base.

2,165,282

DOUBLE BEADING AND FORMING MACHINE

Reuben L. Loggins, Blytheville, Ark.

Application October 27, 1937, Serial No. 171,331
1 Claim. (Cl. 153—7)



A machine for double beading and forming collars of various diameters from strips of sheet metal and comprising a flat rectangular shaped base, a roller frame including guide members secured to and rising from the side edges of the base, bearing blocks mounted for slidable movement in the guide members, means bridging and detachably secured to the upper ends of the guide members to allow removal of the blocks therefrom, superimposed double beading rollers having annular grooves therein to allow for the passage between the rollers of protruding portions of means connecting pieces of metal together to form a strip, such as the heads of rivets or spot welding caps, a forming roller arranged to receive the beaded strip from the beading rollers and to roll the strip into collar formation, trunnions on each of said rollers journaled in the bearing blocks, headed means threaded through the bridging means and secured to the bearing blocks of the upper beading roller and the bearing blocks of the forming roller for the adjustment thereof, lock nuts for the threaded means engageable with the bridging means, parallel upright plates rising from the base, means for rotating the beading rollers and including means journaled in the upright plates, a table supported on the upper ends of the upright plates and for receiving the strips, and guide means on the table to facilitate feeding the strips to the beading rollers.

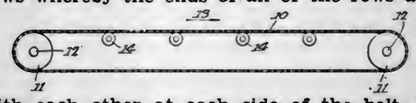
2,165,283

CONVEYER BELT

Chester M. MacChesney, Chicago, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois

Application June 25, 1936, Serial No. 87,141
7 Claims. (Cl. 198—189)

1. A conveyer belt comprising a plurality of metal plates, said plates being arranged in transverse rows with those of one row staggered with respect to those of adjacent rows, separate smaller plates filling the spaces between certain of said first named plates at the ends of alternate rows whereby the ends of all of the rows align



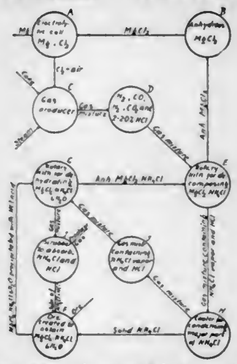
with each other at each side of the belt, and means for pivotally connecting the first named plates and said smaller plates of adjacent rows.

2,165,284

PROCESS FOR PRODUCING ELECTROLYTIC MAGNESIUM

Samuel L. Madorsky, Washington, D. C.

Application January 25, 1938, Serial No. 186,892
10 Claims. (Cl. 204—19)



1. The process of preparing metallic magnesium from substantially anhydrous magnesium ammonium chloride which comprises decomposing said magnesium ammonium chloride by contacting it at elevated temperatures with a gaseous mixture produced by passing electrolytic chlorine together with steam and air through a bed of incandescent carbonaceous material to produce a mixture containing hydrogen chloride and gaseous products of combustion and reaction substantially free from water vapor, forming substantially anhydrous magnesium chloride and ammonium chloride vapor thereby, and electrolyzing the substantially anhydrous magnesium chloride in a fused bath to produce metallic magnesium and chlorine.

8. The cyclic process for the production of magnesium which comprises subjecting substantially anhydrous magnesium chloride to electrolysis in a molten bath, passing the chlorine liberated in the electrolysis together with steam and air, through a bed of incandescent carbonaceous material to form a mixture of hydrogen chloride and other gaseous products of combustion and reaction, but substantially free from water vapor, bringing the gaseous mixture into contact with substantially anhydrous magnesium ammonium chloride at elevated temperatures to convert the latter into substantially anhydrous magnesium chloride while removing the ammonium chloride in the form of a vapor, cooling the gaseous mixture to a temperature sufficient to condense a major portion of the ammonium chloride in the form of a solid salt, bringing the gaseous mixture, while still hot and saturated with ammonium chloride vapors at the lower temperature into contact with hydrated magnesium ammonium chloride to convert the latter into substantially anhydrous magnesium ammonium chloride by removing the water associated with it in the form of water vapor, contacting an aqueous solution of the hydrogen chloride and am-

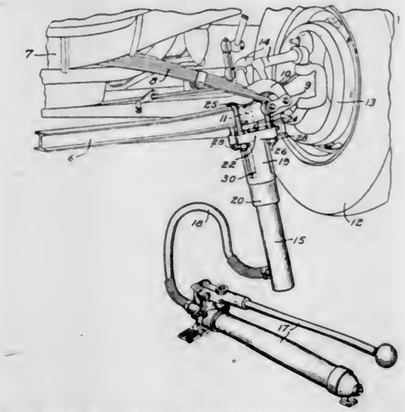
monium chloride in the gaseous mixture remaining from the dehydration step with an acid soluble oxygen containing compound of magnesium together with the ammonium chloride condensed after the decomposition of the magnesium ammonium chloride to form hydrated magnesium ammonium chloride, dehydrating the hydrated salt to obtain substantially anhydrous magnesium ammonium chloride for the conversion to substantially anhydrous magnesium chloride for the electrolytic step.

2,165,285

SPRING PERCH AND BRAKE BRACKET REMOVER

Siegmund Mandl, Milwaukee County, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin

Application December 27, 1937, Serial No. 181,980
2 Claims. (Cl. 29—85)



1. In combination, a reaction element having one end formed for attachment to the normally stationary portion of a jack and having a bored head at its opposite end provided with a tapered centering ridge adjoining the bore and snugly engageable with a similarly tapered recess in the work, a pushing element having one end formed for attachment to the movable member of the jack and having its opposite end portion slidable within said bore, and laterally spaced rigid clamping elements coacting with said head on opposite sides of said bore to clamp said ridge within said recess.

2,165,286

SHEET MATERIAL

Walter F. H. Mattlage, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application October 31, 1936, Serial No. 108,589
5 Claims. (Cl. 101—32)



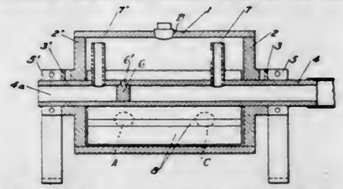
1. In the process of embossing fabrics in which the fabric is pressed between a member bearing a design and a registering embossing bed bearing the counter-part of the design, the improvement which comprises removing a portion of the bed to a depth greater than the design and pressing a fabric between the said member bearing the design and the embossing bed.

2,165,287

METHOD OF DISINTEGRATION, DISPERSION, STABILIZATION, AND COLLECTION OF SOLID MATERIALS

Lewis M. McBride, Corozal, C. Z.

Application August 12, 1935, Serial No. 35,720
6 Claims. (Cl. 83—94)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



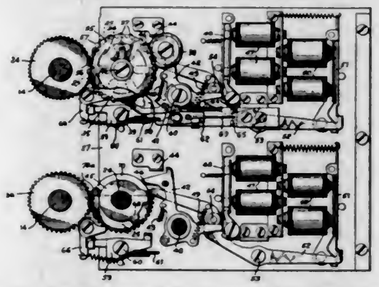
1. The method of disintegrating and stabilizing normally solid irritant chemical agents material which normally cakes during storage, which comprises disintegrating the material and a magnesium oxide to fine dust particles continuously extracting only the finest dust particles, suspending and transporting the extracted dust particles of the materials in a moving stream of air, and collecting the fine dust particles thus stabilized.

2,165,288

TABULATING MACHINE

Albert W. Mills, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application November 14, 1935, Serial No. 49,687
8 Claims. (Cl. 192—148)



1. In an accumulating unit for an accounting machine having an accumulating wheel which is to be advanced to any of a plurality of rotative positions to represent different amounts, including in combination, a constantly rotating driving element having teeth thereon, a plurality of teeth carried by said accumulating wheel for engagement with the teeth on the driving element, said teeth having their driving faces inclined to the axis of rotation of the wheel, locking means normally holding said wheel in any one of the rotative positions of the wheel and against rotation in any direction, means called into action at differential times and with the wheel in any of the rotative positions for removing said locking means and concurrently effecting engagement between the teeth of the driving element and the teeth of the wheel, said means being arranged to lock the teeth in engagement and means operative at a fixed time in the operation of the machine for causing unlocking of said engaged teeth and reenabling the locking means for the wheel whereupon the continued rotation of the driving element will cause its teeth to be cammed out of engagement

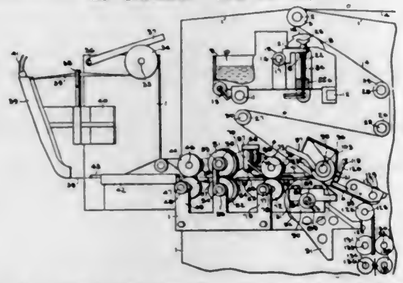
with the teeth of the wheel, leaving the wheel locked in a position advanced from its initial position by an amount determined by the differential time of engagement of said teeth.

2,165,289

MACHINE FOR MAKING WRAPPERS

Michael J. Milmoe, Glen Ellyn, and Clarence J. Malhiot, Oak Park, Ill., assignors to F. B. Redington Co., Chicago, Ill., a corporation of Illinois

Application February 15, 1937, Serial No. 125,806
18 Claims. (Cl. 93—1)



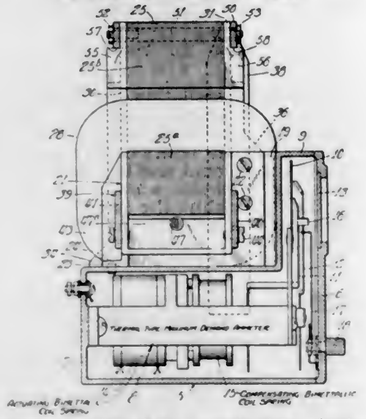
1. A mechanism for forming wrappers having tearing strips, comprising means for applying a hot wax along a line at a predetermined angle to a portion of a web of material, means for feeding the web, means for feeding a tape at an angle to the web being fed, means for cutting the tape into predetermined lengths, means for feeding the cut tape on the web, said means including guide means for positioning the tape parallel to the waxed portions with the end of the tape extending beyond a side of the web, and means for pressing the tape into adhering relationship with the waxed portions on the web, with an end of the tape extending beyond the outer edge of the web.

2,165,290

TRANSFORMER FOR MAKING ELECTRICAL MEASUREMENTS

Chester F. Mitchell, Wheaton, Ill., assignor to H D Electric Company, Chicago, Ill., a corporation of Illinois

Application September 9, 1935, Serial No. 39,826
6 Claims. (Cl. 171—34)



1. In an electrical measuring instrument adapted to be hung upon a conductor and supported thereby during the taking of electrical measurements, a split core transformer having a U-shaped core section, and a second core section mounted for movement toward and away from the ends of the first named section, said transformer including a coil on said U-shaped core section, a pair of side plates fastened on said U-shaped core section, one plate having a handle thereon, and a bracket fixed on one leg of said U-shaped core section and having means thereon supporting said second core section.

2,165,291

METHOD OF MAKING PYROXYLIN COATED MATERIALS

Rowland B. Mitchell, Athol, Mass., assignor to Athol Manufacturing Company, Athol, Mass., a corporation of Massachusetts

No Drawing. Original application April 28, 1938, Serial No. 204,837. Divided and this application January 19, 1939, Serial No. 251,739
1 Claim. (Cl. 91—68)

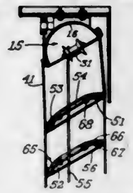
The method of forming a pyroxylin coating which is waterproof and adherent to ink and water sensitive adhesives which comprises applying to the surface of a base coating of dry impervious waterproof pyroxylin a liquid film containing volatile nitrocellulose non-solvent dissolved in a solution of volatile solvent and nitrocellulose; and drying the coating after the film is applied to remove said solvent and non-solvent; the amount of solvent and non-solvent in said liquid film being insufficient to make the resulting dried coating non-waterproof, and the proportion of non-solvent in said liquid film being small enough relative to the proportion of solvent to cause the resulting dried coating to be unblushed, but being large enough to cause the resulting dried coating to be superficially minutely porous as indicated by the surface of that coating being adherent to water sensitive adhesives and pyroxylin non-soluble ink when said adhesives and ink are dried after application thereto without balling of the ink when wet.

2,165,292

VENETIAN BLIND

Lulan S. Morse and Clarence W. Morse, Santa Monica, Calif.

Application November 18, 1936, Serial No. 111,384
22 Claims. (Cl. 156—17)



1. In a Venetian blind, a tilting rail assembly including a structure having longitudinal channels, a pulley supporting device having complementary members to engage the said channels for positioning said device in a desired location on the said structure, said device having a guide pulley for operating cords of the blind.

2,165,293

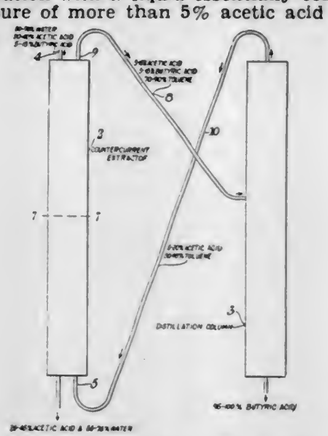
PROCESS OF SEPARATING AND RECOVERING ALIPHATIC ACIDS

Gale F. Nadeau and Webster E. Fisher, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 12, 1936, Serial No. 63,615
7 Claims. (Cl. 260—225)

1. In a process for the separation of acetic

acid and butyric acid existing together in the form of an aqueous solution, the step which comprises extracting at least a part of said aqueous solution with a liquid essentially comprising a mixture of more than 5% acetic acid with at



least one hydrocarbon from the group consisting of toluene, cyclohexane, cyclohexene and methylcyclohexane, ethylene chloride, carbon tetrachloride, trichlorethylene, propylene chloride, to obtain an extract containing at least a portion of said butyric acid.

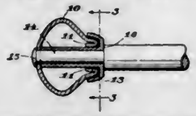
2,165,294

REINFORCED METAL TUBE

Henry P. Nordmark, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey

Application January 23, 1937, Serial No. 121,946

1 Claim. (Cl. 138—74)



Means for reinforcing the longitudinal seam of a metal tube comprising a pin projected through the seam of the tube and piercing the opposite wall thereof, and a ferrule straddling said seam and embracing the pin, one end of said pin having a shoulder in engagement with said ferrule and the other end of the pin being riveted over into engagement with the outer wall of said tube.

2,165,295

BIRD NEST

Henry Novack, Brooklyn, N. Y.

Application February 8, 1938, Serial No. 189,339

3 Claims. (Cl. 119—45)



1. A reinforced nest of the class described, comprising an annular housing made of rigid material and having an annular recess at its lower face, a nest body of semi-spherical cross-section and comprising inner and outer layers of loosely felted materials and an intermediate coarse fabric layer held in unitary relation with said inner and outer layers, said annular recess being designed to receive the upper edge portion of said nest body, said housing comprising outer and inner walls, one of said walls extending below the other wall, the lower edge of said lower wall being inturned to clamp said nest body upwardly against the lower edge of said other wall, said housing having a portion adapted to contact a plurality of vertical bars of a cage, and means projecting from said portion of said housing and adapted to be bent around the bars of a bird cage and effectively hold the nest to the cage.

2,165,296

RESILIENT FLAME-RESISTANT GASKET MATERIAL

Alfred Oass, Bremerton, Wash.

Application September 16, 1937, Serial No. 164,138

1 Claim. (Cl. 288—11)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



A resilient, flame-resistant gasket material comprising a central rectangular core of vulcanized rubber and a wrapping of at least one ply of asbestos-metallic cloth having its warp and woof each made up of one strand of a metal chosen from the group, brass and copper, and at least two strands of asbestos yarn intertwisted, the edge of said cloth being tapered to a wedge to make the gasket surface smooth and regular.

2,165,297

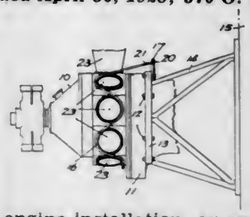
VEHICLE ENGINE MOUNT

Stephen A. Oliver, Culver City, Calif.

Application October 20, 1937, Serial No. 170,040

4 Claims. (Cl. 248—5)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an engine installation, an engine mount, a multi-cylindered engine having a rigid connection with the engine mount to be supported thereby, and a flexible safety cable secured at its ends to the engine mount and between its secured ends extending sinuously around the cylinders of the engine for holding the latter in the event the rigid connection fails.

2,165,298

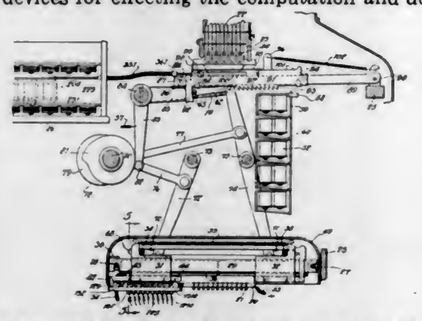
AUTOMATICALLY CONTROLLED CALCULATING MECHANISM

Robert E. Paris, New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application February 28, 1929, Serial No. 343,277

13 Claims. (Cl. 235—61.6)

1. In a cyclically operable multiplying machine, the combination with means for setting up a representation of two factors for a multiplying operation, of devices settable for receiving and representing said factors and other settable recording control devices for controlling recording of said factors, means under control of said setting means for concomitantly setting the aforesaid receiving and representing devices and the aforesaid recording control devices in accordance with said factors, result representing means comprising a plurality of orders of digit representing electro-magnets representing digits by the closed positions of their related armatures, multiplying means controlled by said receiving and representing devices for effecting the computation and de-



vices associated with said multiplying means for causing said electro-magnets to represent by the closed positions of the armatures the result of the multiplication, supplemental settable recording control devices settable in accordance with the closed positions of the armatures for controlling the recording of the result, and means for causing successive operation of said multiplying means, of the devices associated therewith, and the setting of said supplemental recording control devices in the same cycle of operation as the setting up of the first named means.

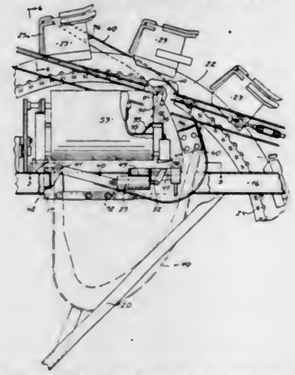
2,165,299

CLEANER FOR TRENCHING MACHINES

Vincent S. Penote, Euclid, Ohio

Application October 7, 1937, Serial No. 167,752

17 Claims. (Cl. 37—97)



1. In a trencher, a frame, a series of digging buckets supported by said frame, power means to progress said buckets through the soil, a yieldable bucket cleaner mounted on said frame, a conveyor supported by said frame and adapted to receive soil discharged from said buckets by said cleaner, and means whereby said cleaner may be adjusted bodily relative to said conveyor, to change the operative relation between the cleaner and the conveyer.

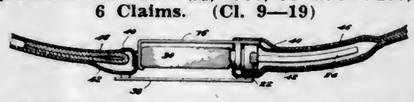
2,165,300

SAFETY LIFE BELT

Gerhard J. Peterson, Grand Forks, N. Dak.

Application November 24, 1937, Serial No. 176,326

6 Claims. (Cl. 9—19)



5. A life preserver belt comprising a waist encircling bladder having one closed end and one open end, an elongated cartridge receiver formed to removably and totally receive a gas cartridge and attached at one end to the open end of said bladder, said cartridge receiver having an apertured neck in communication with the open end of said bladder and having in longitudinally spaced relation from said neck a support for the base of a cartridge, a compressed gas cartridge having a pierceable stopper in one end and releasably receivable in said cartridge receiver to extend longitudinally thereof with the stopper end snugly fitting within said neck and with the base of said cartridge bearing against said support, means located within said bladder adjacent the open end thereof and controllable by the wearer for piercing said cartridge and means for releasably connecting the ends of said bladder.

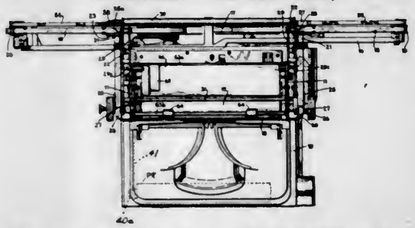
2,165,301

TYPEWRITING MACHINE

John L. Petz, Rochester, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application July 24, 1937, Serial No. 155,363

11 Claims. (Cl. 197—153)



1. In combination with the carriage of a typewriting machine, means on said carriage for guiding a ribbon along the printing line, means mounted independently of the carriage for supporting a ribbon storage spool and a ribbon supply spool, means for guiding the ribbon from the storage spool to the carriage and from the carriage to the supply spool, means including a pair of feed rollers and a driving pulley connected to one of the feed rollers, said means being mounted independently of the carriage for feeding the ribbon, and means including a flexible band interconnecting the carriage and the driving pulley whereby to cause said ribbon to be fed in step with the carriage.

2,165,302

PUNCHING MACHINE

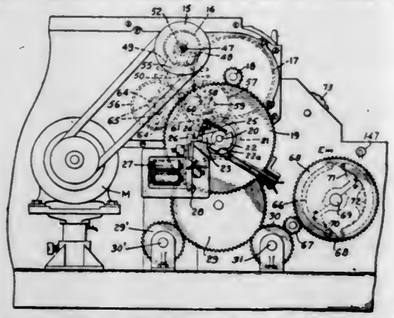
Edward J. Rabenda, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application December 31, 1937, Serial No. 182,748

19 Claims. (Cl. 164—115)

1. In a punching machine, in combination, card punching means, actuating means therefor, means for selecting said punches for operation by said actuating means, means for detecting the failure of operation of any selected punch by said actuating means, and means for

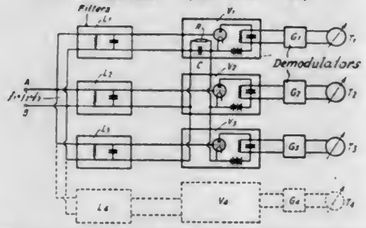
effecting under control of said detecting means



the distinctive characterization of a card which is erroneously punched.

2,165,303
WITHDRAWN

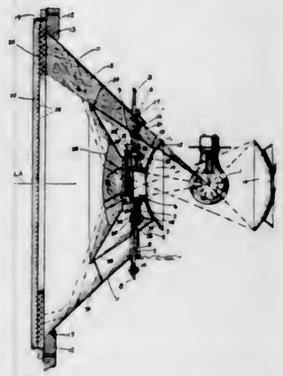
2,165,304
RADIO RECEIVER
Wilhelm Runge and Alfred Kunze, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application December 17, 1935, Serial No. 54,807
In Germany December 20, 1934
4 Claims. (Cl. 250—20)



1. Apparatus for receiving oscillations modulated by a plurality of simultaneously occurring signal frequencies comprising input and output portions, filtering means for separating the various signal frequencies, said means comprising a separate filter for each frequency having capacitive and resistive reactance connected to said input portion, separate amplifying means for each filtering means comprising a thermionic device having an anode, grid and cathode to increase the amplitude ratio between the smaller and the larger of said impulses, said amplifying means being connected to each of said filters, a common condenser and resistance connected to the grid circuits of said amplifying means, and indicating apparatus connected to the output portion of said receiving means.

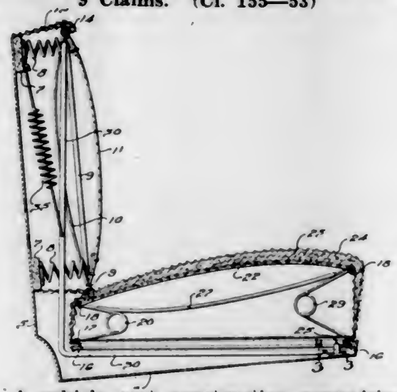
2,165,305
SIGNAL DEVICE
Robert J. Ruths, Baltimore, Md.
Application July 24, 1936, Serial No. 92,374
4 Claims. (Cl. 116—63)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

3. A signal device comprising in combination means for producing a rotating beam of light of predetermined and unvarying dimensions extending at an angle to the longitudinal axis of the signal device and means for diffusing the said beam of light whereby to present to the observer a rotating spot of diffused light having a selected and unvarying shape, said last mentioned means including a member for refracting the rotating beam of light incident thereupon into a direc-



tion which is substantially parallel to the longitudinal axis of the signal device.

2,165,306
VEHICLE SEAT
Frank M. Shanahan, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application September 28, 1936, Serial No. 102,922
9 Claims. (Cl. 155—53)

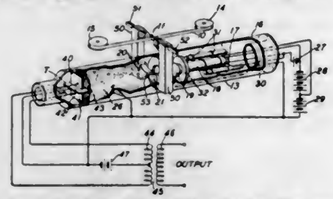


5. A vehicle seat construction comprising a seat back cushion having a rigidly mounted base frame and a border frame resiliently mounted in spaced relation thereto, a seat pan, upstanding pins adjacent the forward edge of said seat pan, slings connected to said border frame of said seat back cushion at one of their ends and anchored to said pins at the other of their ends, a seat cushion removably mounted upon said slings and disposed in cooperative position with respect to said seat back, and resilient means supporting the rear portion of said slings to maintain the rear portion of said seat cushion in resiliently spaced relation with respect to said seat pan.

2,165,307
MEANS FOR TRANSLATING MAGNETIC VARIATIONS INTO ELECTRIC VARIATIONS
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 31, 1937, Serial No. 134,067
22 Claims. (Cl. 178—5)

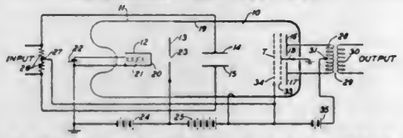
1. The combination with an electron beam discharge tube of beam deflecting means com-

prising a magnetic flux path terminating at one end within the tube in the vicinity of the beam, a magnetic signal record member adjacent the



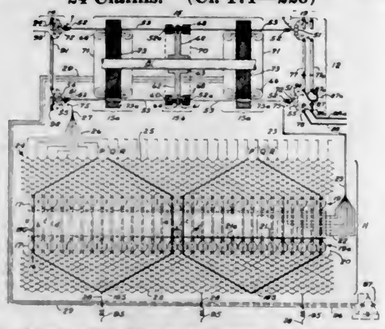
other end of said path, and means for producing relative movement between said flux path and said record member.

2,165,308
CATHODE RAY DEVICE
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 31, 1937, Serial No. 134,068
11 Claims. (Cl. 250—27)



1. A cathode ray device comprising means for generating a beam of electrons, a plurality of anodes, means for deflecting said beam from one anode to another, and means for preventing cross-currents between said anodes due to secondary electrons emitted from one reaching the other comprising two separate grids each of which lies in the path of said beam in each of its deflected positions and one of which is nearer said anodes than the other.

2,165,309
ELECTRIC POWER CONVERSION
George T. Southgate, Forest Hills, N. Y.
Application April 18, 1936, Serial No. 75,080
24 Claims. (Cl. 171—228)



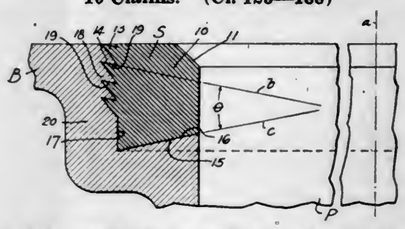
10. Apparatus for transferring power between unidirectional separate currents, which comprises the combination with a polyphase transformer, of a commutative contacting system connected with the transformer's primary winding and another with its secondary winding; electromagnetic means actuating the contacting systems in such wise that the commutation is effected cosynchronously with respect to the primary and secondary windings; and means for excitation of said transformer and said electromagnetic actuating means by polyphase alternating currents.

2,165,310
FILAMENT
Charles Spaeth, Flushing, N. Y.
Application August 14, 1936, Serial No. 96,040
11 Claims. (Cl. 176—132)



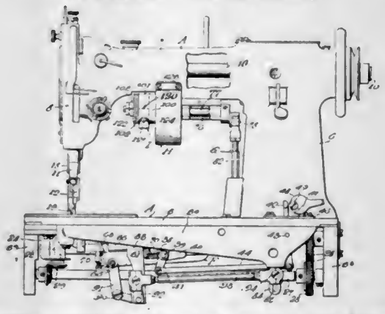
9. The process of making non-sagging tungsten filaments, which consists in winding a tungsten wire upon a tungsten core to form a primary helix, winding the primary helix with its core upon an iron core, heating to cause iron from the iron core to vaporize and deposit upon the tungsten wire of the filament, removing the iron core, and then further heating to cause the deposited iron to become alloyed with the tungsten wire.

2,165,311
VALVE SEAT
Clifton L. Stancliff, Bakersfield, Calif.
Application January 3, 1938, Serial No. 182,944
10 Claims. (Cl. 123—188)



1. The combination with a support having a valve port, of a valve seat for said port; coacting threads on the valve seat and in the support by which the valve seat can be tightly screwed in place; the valve seat having an end face and the support having a shoulder co-acting therewith to limit the extent to which the valve seat can be screwed into the support; said end face and said shoulder being in inclined relationship to one face of said threads, operable to maintain the valve seat tightly in place irrespective of variations in heating and cooling of the support and the valve seat.

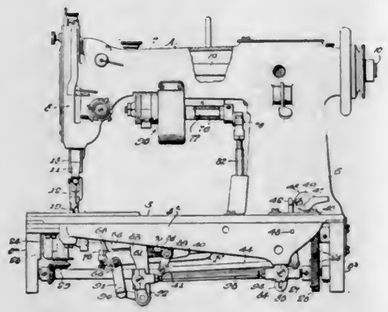
2,165,312
COMBINED SEAMING AND PINKING MACHINE
Geoffrey Stevenson, Brookline, Mass.
Application May 14, 1937, Serial No. 142,696
67 Claims. (Cl. 112—122)



1. The combination of a sewing machine in-

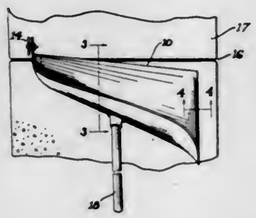
cluding a frame having a base, a main shaft, and a vertically reciprocatory needle operated by said shaft; and a trimming mechanism comprising a ledger blade spaced above the base, a lever pivoted below the base for oscillations about a horizontal axis, a knife mounted on said lever for cooperation with the ledger blade, means for maintaining the blade and knife in yieldable engagement with each other during cutting movements of the knife, and operating connections between the lever and the main shaft for reciprocating the knife in timed relation to the needle reciprocations.

2,165,313
TRIMMING MECHANISM
Geoffrey Stevenson, Brookline, Mass.
Original application May 14, 1937, Serial No. 142,696. Divided and this application October 25, 1937, Serial No. 170,913
58 Claims. (Cl. 164—17.5)



1. A pinking mechanism for sewing machines having a horizontal base, comprising a stationary horizontally disposed ledger blade having a cutting opening therein, and a cooperating vertically reciprocatory knife supported below the base and operable in said opening.

2,165,314
SNOW PLOW
Robert E. Stevenson, Indianapolis, Ind.
Application March 12, 1938, Serial No. 195,572
2 Claims. (Cl. 37—53)



1. In a snow plow, a moldboard, a handle attached to the moldboard, said moldboard having a front scraping edge oblique to the axis of the handle and having a rear roll at a more oblique angle to the axis of the handle, one end of the moldboard being bent down and back into a curved runner on which the moldboard is rocked, and the other end of the moldboard being bent into a closure and cutter, and means extending forwardly of the scraping edge at the cutting end to bear against the scraped surface and lift the edge over projections in the surface by the rocking of the moldboard.

2,165,315
PIGMENT
Svend S. Svendsen, Madison, Wis., assignor, by mesne assignments, to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application January 13, 1936, Serial No. 58,893
24 Claims. (Cl. 134—58)

15. The method of making a pigment comprising titania and silica in which silica can not be detected under the microscope when heated to form anatase crystals which comprises forming a solution of a mixture of fluoride salts of titanium and silicon with the titanium salts in substantial excess of the silicon salts, reacting said solution with ammonia in such a manner as to co-precipitate the hydroxides of titanium and silicon, separating said hydroxides from the mother liquor, and calcining said co-precipitated hydroxides.

2,165,316
ELECTRICAL RESISTANCE ELEMENT, ALLOY, AND PRODUCTION THEREOF
James L. Thomas, Garrett Park, Md., assignor to the Government of the United States of America, represented by the Secretary of Commerce
Application June 25, 1937, Serial No. 150,334
12 Claims. (Cl. 201—76)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

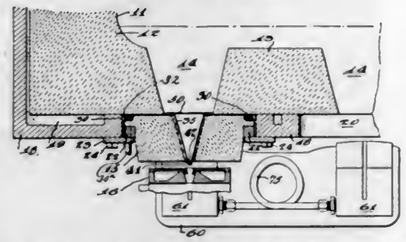


1. An electrical resistance element composed of a heat treated copper-manganese-aluminum alloy containing iron and comprising manganese 9.5%, aluminum 5.3%, and iron 0.2%, the remainder being virtually all copper; said element having substantially zero thermoelectric power against copper, great stability against change of resistance with ageing, and substantially zero temperature coefficient of resistance at about 25° C.

2,165,317
PRINTER'S BLANKET
Raymond E. Thomas, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application December 17, 1937, Serial No. 180,327
3 Claims. (Cl. 154—54.5)

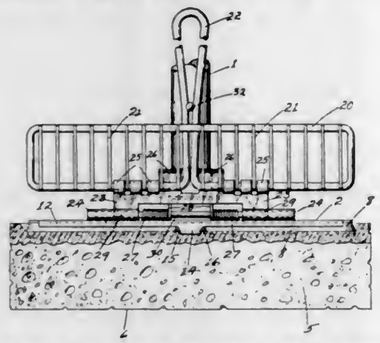
1. A resilient printer's blanket which comprises a woven felt fabric deeply impregnated by small particles of cellulose nitrate and a flexible cellulose nitrate coating strongly bonded to the said fabric by the cellulose nitrate impregnated therein, said coating having an inner part devoid of plasticizer, an intermediate part containing a plasticizer and an outer part containing an ink-repellent material.

2,165,318
APPARATUS FOR FEEDING MOLTEN GLASS
John H. Thomas and Ed Fletcher, Newark, Ohio, assignors, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application December 26, 1935, Serial No. 56,222
15 Claims. (Cl. 49—55)



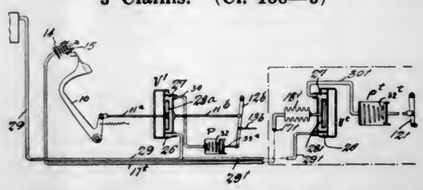
6. A bushing for projecting a plurality of fine streams of molten glass from a furnace or the like which comprises a converging trough having a series of outlets at the converging portion of said trough, said outlets being provided with nipples protruding from said trough to prevent adjacent streams of glass from running together and coalescing, outwardly disposed lugs integral with said trough to permit an electrical connection thereto with a source of electrical energy, means associated with said trough to distribute electrical current therethrough to produce predetermined temperatures in said trough, said means including a series of integral ribs in said trough of electrical conducting material, said ribs extending from the ends of the trough toward the middle thereof and terminating short of the middle, and the ribs of each series each arranged one above another and of graduated lengths diminishing from the lowermost upward.

2,165,319
MOP
Sidney P. Vaughn, United States Navy, San Diego, Calif.
Application July 15, 1937, Serial No. 153,738
5 Claims. (Cl. 15—119)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



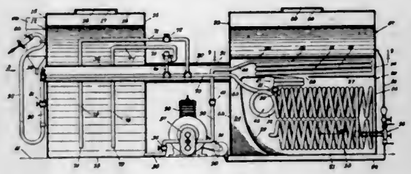
1. A mop including a handle and a head, a block of sponge material secured to said head, a hinge link pivoted by one end to the toe of the head, a wringer element pivoted to the free end of the hinge link and adapted to squeeze the sponge material, a handle for operating said wringer element, means limiting the backward movement of the wringer element around its pivot but permitting free movement in a forward direction, spring means acting to urge the hinge link and wringer element toward operative position for squeezing the sponge material, and catch means for connecting the handle of the wringer element to the handle of the mop to hold the wringer element in an inoperative position.

2,165,320
MEANS FOR CONTROLLING THE OPERATION OF MOTOR VEHICLES OR THE LIKE
Abraham Weiss and Joseph Weiss, New York, N. Y.
Application May 18, 1937, Serial No. 143,282
3 Claims. (Cl. 188—3)



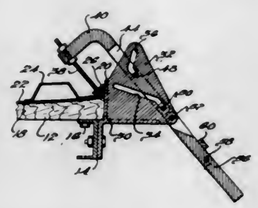
1. In a motor vehicle serving as tractor and having a trailer coupled thereto, brake control means in each, tractor and trailer, means for simultaneously operating both said brake control means, said operating means including a manually operable member operatively connected to said tractor brake control means, a fluid compressor associated with said member, a fluid pressure transmitting means in said trailer directly and simultaneously responsive to the action of said compressor and operatively connected to said trailer brake control means and means associated with said manually operable member and capable of actuating said compressor without actuating to said tractor power unit so as to equalize the braking action in both tractor and trailer.

2,165,321
DEVICE FOR DISSEMINATING BY STEAM AQUEOUS SOLUTIONS, EMULSIONS AND MIXTURES
William R. Wertz, Glendale, Calif.
Application May 1, 1935, Serial No. 19,220
4 Claims. (Cl. 299—87)



1. In a device as described, the combination of a steam generator for generating steam from water, an outfeed pipe for the steam from the generator, a hopper for dry powdered material, a feeding device therefor to discharge small quantities of the material at a time, a casing into which material is discharged, a steam pipe communicating from the outfeed pipe through the casing to a nozzle whereby the dry powdered ingredients become incorporated and mixed with the steam prior to the steam and ingredients reaching the nozzle, the feeding device having means to pack the powdered material to prevent a back blow of steam through the hopper.

2,165,322
TOGGLE CLAMP
W. Calvin Weston, Detroit, Mich., assignor to The Murray Corp. of America, Detroit, Mich., a corporation of Delaware
Application November 16, 1936, Serial No. 111,035
6 Claims. (Cl. 113—99)



1. A clamping mechanism comprising a support, a plate member having a plurality of slots therein, said plate member being associated with said support and located in a plane substantially normal to the plane of said support, and a toggle linkage mechanism operatively connected to said plate member, said toggle mechanism including a first member having a work engaging means connected to the inner end thereof and being movably connected to said plate member through the slots therein at its outer end and at an intermediate point, a second member pivotally connected to said first member at the outer end of said first member, and a third member pivotally connected to said support at its inner end and pivotally connected to said second member at an intermediate point on said third member.

2,165,323
TERMINAL FOR ELECTRICAL CONDUCTORS
Jesse M. White, Philadelphia, Pa.
Application August 11, 1938, Serial No. 224,294
2 Claims. (Cl. 173—269)

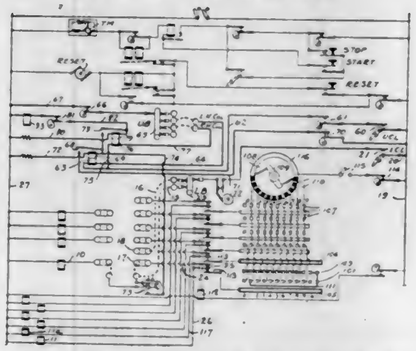


2. The combination of an electrical fitting with a metallic electrical conductor, comprising a metallic sleeve having two longitudinally aligned bores of different transverse dimensions and external means adapted to cooperate with a holding member of a sliding friction-type connector, a metallic electrical conductor carrying insulation through part of its length and exposing a bare portion and having the bare portion of said electrical conductor arranged in the smaller of said bores of said sleeve and the insulated portion inserted in the larger of said bores of said sleeve, a plurality of longitudinally spaced crimpings formed in said sleeve and metallic conductor to join said sleeve and conductor and swage the metal of said sleeve and conductor into a continuous solid metal cross-section at the location of said crimpings, and crimpings formed in said sleeve and insulation carried by said metallic electrical conductor so as to grip said insulation tightly and seal the space between one of said crimpings between said sleeve and said metallic electrical conductor and the crimpings between said sleeve and said insulation.

2,165,324
STABLE BLENDED OIL
Peter J. Wiezevich and Jones I. Wasson, Elizabeth, N. J.; said Wiezevich, now by judicial change of name Peter J. Gaylor, assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application April 27, 1935, Serial No. 18,697
8 Claims. (Cl. 87—9)

1. A lubricant of relatively high viscosity suitable for lubricating internal combustion engines, containing a lubricating oil having a viscosity of 20–150 seconds Saybolt at 210° F., a dissolved oxidation inhibitor having a Sligh sludge increasing effect, and a thickened oil, soluble in said lubricating oil, and having the dual effect of increasing the viscosity of the lubricating oil and of lowering the Sligh sludge value of the inhibited oil.

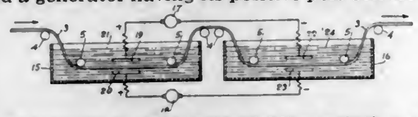
2,165,325
ACCOUNTING MACHINE
Victor O. Wilkerson, Vestal, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application July 14, 1934, Serial No. 735,175
2 Claims. (Cl. 235—61.6)



1. In a machine controlled by records having duo-decimal perforations arranged in two columns, a single accumulator wheel to receive duodecimal numbers, means to sense each of said columns of the records, means controlled by the sensing means for one column upon detecting a perforation to advance the accumulator wheel ten steps, and means controlled conjointly by the sensing means for both columns upon detecting perforations in both columns to advance the accumulator wheel an additional step.

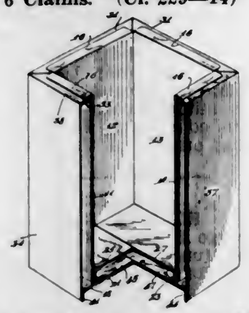
2,165,326
ELECTROLYTIC TREATMENT OF FERROUS METALS
Charles W. Yerger and Guerin Todd, Matawan, N. J., assignors to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey
Original application October 30, 1934, Serial No. 750,652. Divided and this application March 30, 1935, Serial No. 13,912
3 Claims. (Cl. 204—5)

1. In an electroprocessing apparatus for pickling and bright dipping ferrous metal strips, a pair of tanks, means for guiding a ferrous metal strip to be worked upon through the electrolyte in each tank and from tank to tank, an acid pickling solution in the first tank, an acid bright dip solution in the second tank, a submerged anode spaced apart from the strip in the acid pickling solution, a cathode spaced apart from the strip submerged in the acid bright dip solution, and a generator having its positive pole connected



to the anode in said acid pickling solution and its negative pole connected to the cathode in said acid bright dip solution, said anode and cathode and said acid solutions constituting the sole electrical connections between said generator and said ferrous metal strip.

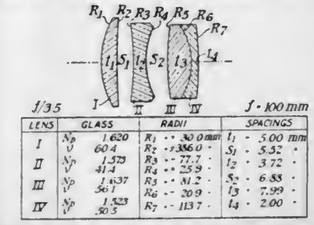
2,165,327
SET-UP INSULATION BOX
Philip Zalkind, New York, N. Y.
Application April 20, 1936, Serial No. 75,317
6 Claims. (Cl. 229—14)



1. A rigid insulating casing of fibrous sheet material comprising an inner shell and outer shell; said inner shell having side walls, a bottom wall, a downwardly depending flange at the junction of said side walls and said bottom wall, and an outstanding flange at the upper extremity of the side walls; said outer shell having side walls, a bottom wall, and an inwardly projecting flange at the upper extremity of the side walls; said inner and outer shell being united with each other to form said insulating casing; said shells being united through the top outstanding flanges of said inner shell and the top inwardly projecting flanges of said outer shell, the latter also being secured to a frame of sheet material fitting around said inner shell and within said outer shell.

2,165,328
LENS
George H. Aklin and Fred E. Altman, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 16, 1938, Serial No. 202,485
5 Claims. (Cl. 88—57)

1. An objective comprising two collective components axially spaced on opposite sides of a dispersive component, the front collective component having about twice the power of the whole objective and the rear collective component having power at least one third greater than and less than three times that of the objective, the front surface of the front component and the rear surface of the dispersive component being convex to the incident light and having radii of curvature each equal to about one fourth of the focal length of the objective, the rear surface of the front component having a radius of curvature according to its absolute value greater than one half of the focal length of the objective, the front surface of the dispersive component being concave to the incident light with a radius of curvature greater than one half of the focal length of the objective, and the rear collective component being compound, said objective being characterized by the spacing between the rear component and the dispersive component being less than twice and more than three fourths the other spacing, the cemented surface of the rear

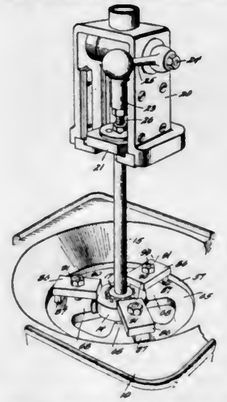


f/3.5	I	II	III	IV	f = 100 mm

LENS	GLASS		RADII	SPACINGS
I	N_D 1.620		R_1 = 30.0 mm	l_1 = 5.00 mm
	V 60.4		R_2 = 356.0 "	S_1 = 5.52 "
II	N_D 1.529		R_3 = 27.7 "	l_2 = 3.72 "
	V 51.4		R_4 = 25.9 "	
III	N_D 1.637		R_5 = 31.2 "	S_2 = 6.83 "
	V 50.1		R_6 = 20.9 "	l_3 = 7.99 "
IV	N_D 1.529		R_7 = 113.7 "	l_4 = 2.00 "
	V 50.3			

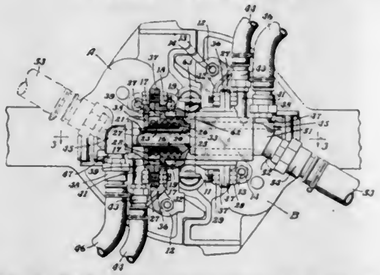
component being concave to the incident light, the rear surface of the rear component having a radius of curvature greater than one half of the focal length of the objective and the front surface of the rear component being convex to the incident light with a radius of curvature between 60% of and twice the focal length of the objective for all glasses and less than this focal length when a crown glass having an index of refraction with respect to the D line less than 1.65 is used for this front element of this rear component.

2,165,329
APPARATUS FOR LAPPING TOOTHED ELEMENTS
Harry Lee Barter, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application April 15 1935, Serial No. 16,476
10 Claims. (Cl. 51—157)



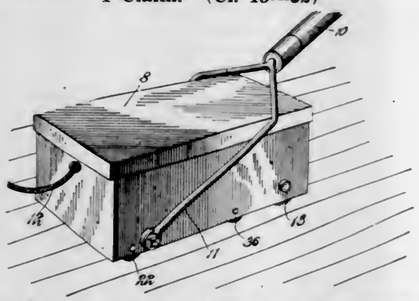
1. In a machine for lapping externally toothed gears, the combination with an internally toothed lap, of means for supporting the lap and a gear concentrically for relative axial reciprocation with the teeth thereof in abrasive relation, said means supporting said lap for adjustment laterally of the axis of reciprocation to axially align the gear and lap, and means acting between said supporting means and said lap to secure said lap in axially aligned relation with the gear and against lateral displacement.

2,165,330
TRAIN LINE CONNECTOR
Arthur J. Bazeley, Shaker Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1936, Serial No. 85,465
15 Claims. (Cl. 285—24)



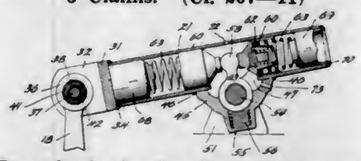
1. In a train line connector, a rectangular housing adapted to be fastened to a car coupler, a member substantially filling said housing and mounted therein for movement longitudinally thereof, said member being adapted to project forwardly and rearwardly of said housing and being provided with a plurality of ports adapted to be connected to the train lines, abutment means limiting forward movement of said member relative to said housing, a separable element fastened to said housing to the rear of said member, and spring means between the forward portion of said element urging said member forwardly toward said abutment means.

2,165,331
FLOOR SCRUBBING MACHINE
Joseph S. Benish, Rhinelander, Wis.
Application August 10, 1938, Serial No. 224,163
1 Claim. (Cl. 15—52)



A floor scrubbing machine of the character described comprising a carrier providing a water reservoir, a scrubbing brush located at one end of the carrier and adapted to receive water from the reservoir, a water absorbent roller providing a support for the carrier located at its opposite end, supporting wheels located at a position forward of the absorbent roller providing a fulcrum for said carrier, said reservoir being so located relative to said wheels so that fluid therein produces no tendencies for said carrier to rotate about said fulcrum in either direction, a water pan located between said absorbent roller and the brush and having an edge thereof arranged to receive liquid from said roller, a pump for delivering water from said pan into the reservoir, and a motor located over the absorbent roller and having driving connection with said pump and the scrubbing brush, substantially as set forth.

2,165,332
MOTOR VEHICLE
Frank C. Best, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application June 12, 1936, Serial No. 84,928
3 Claims. (Cl. 267—11)



1. In a shock absorber for motor vehicles, the combination with a fluid-tight, permanently sealed casing including a cylinder, of piston means operable in said cylinder, a stationary shaft extending into said casing, said casing being oscillatable on said shaft, said shaft having means thereon engaging said piston means to operate the latter on rocking movement of said cylinder, means sealing said casing at the point of entry of said shaft therein, and means associated with said casing and deformable under pressure to increase the volume of the casing, whereby said casing may be completely filled with liquid and compensation for increase in temperature automatically effected, said last named means comprising a collapsible chamber in said casing outside of the head end of said cylinder.

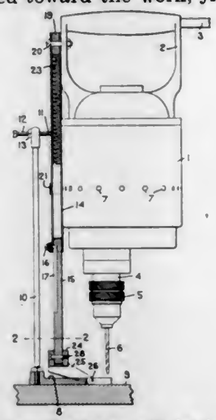
2,165,333
SCREED CHAIR
George B. Bosco, Chicago, Ill.
Application June 3, 1937, Serial No. 146,263
9 Claims. (Cl. 72—122)



1. A reversible screed chair for supporting screed strips of different sizes upon work forms, comprising integral, substantially flat body portions being parallel in a longitudinal direction but arranged in an acute angle in a transverse direction, each of said portions having a recess at one end for receiving a screed strip of one size and a recess at the opposite end for receiving upon reversal of the chair a screed strip of a different size, each of said recesses forming spaced feet adapted selectively to engage said work forms, said feet lying in planes common with the body portions.

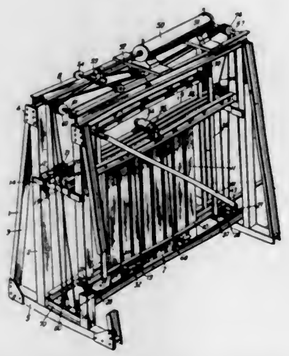
2,165,334
DRILL POSITION INDICATOR
Romeo A. Bossi, Newton Center, Mass.
Application February 8, 1939, Serial No. 255,295
4 Claims. (Cl. 77—7)

1. The combination with a drilling tool of a base adapted to seat firmly against the work, a post rigidly connected to and extending upward from the base, a yieldingly compressible rectilinearly telescoping leg having its upper member rigidly secured to the drill body and presenting an outer surface having a guide element parallel with the drill axis and having the lower end of its lower member pivoted by a universal joint to the base, and an indicator at the upper end of the post projecting laterally therefrom with its point in a plane containing the axis of the drill and the said guide element, in which when the drill is pressed toward the work, yieldingly com-



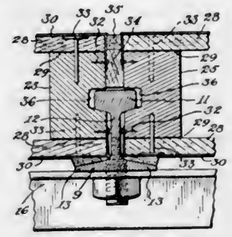
pressing the leg, the base will be held seated irrespective of the angular relation of the drill axis to the work and a required angular relation may be maintained during the drilling operation by bringing the guide element and the indicator point into contact.

2,165,335
STONE SAWING MACHINE
Ottie J. Brock, Vincennes, Ind.
Application February 1, 1939, Serial No. 254,077
11 Claims. (Cl. 125—16)



1. A stone sawing machine comprising a frame, an upper carriage mounted on said frame in such a manner that it may be reciprocated, a lower carriage independently mounted on said frame in such a manner that it may be reciprocated, a cutter bar suspended from said upper carriage, said cutter bar extending downwardly through said lower carriage which serves as a guide therefor, and means for reciprocating both of said carriages.

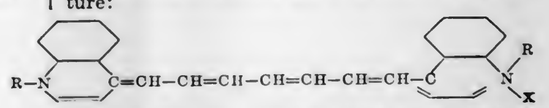
2,165,336
BUILDING WALL CONSTRUCTION
Joah Brogden, Melrose Park, Pa.
Application January 27, 1938, Serial No. 187,311
4 Claims. (Cl. 189—34)



1. A building construction comprising metal studs having vertical wedge-shaped flanges within the wall, and unitary preformed panels between the studs, said panels being hollow and having spaced layers of insulating material and an intermediate filler provided with inclined grooves into which said flanges interlock.

2,165,337
4,4'-TRICARBOCYANINE SALTS AND THEIR PREPARATION
Leslie G. S. Brooker, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Original application January 16, 1933, Serial No. 651,870. Divided and this application August 23, 1934, Serial No. 741,145
18 Claims. (Cl. 260—240)

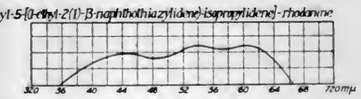
1. A tricarbocyanine salt of the following structure:



wherein R represents an alkyl group and X represents an acid radical.

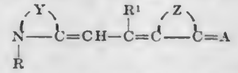
8. A process for the preparation of a tricarbocyanine salt which comprises condensing, in the presence of a strong organic base, two molecular proportions of an alkyl quaternary salt of a lepidine with one molecular proportion of glutaconic aldehyde dianilide hydrochloride.

2,165,338
MEROCARBOCYANINE DYES AND PHOTOGRAPHIC EMULSIONS CONTAINING THE SAME
Leslie G. S. Brooker and Frank L. White, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corportion of New Jersey
Application August 13, 1936, Serial No. 95,931
In Great Britain August 15, 1935
12 Claims. (Cl. 95—7)



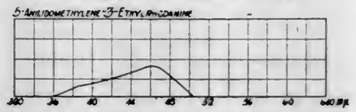
1. A photographic silver salt emulsion containing a sensitizing dye selected from the group

of dyes characterized by the following formula:

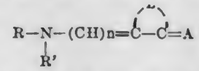


wherein A represents an atom selected from the group consisting of oxygen and sulfur, R represents an alkyl group, R^1 represents an organic residue selected from the group consisting of alkyl groups and aryl groups, Y represents the non-metallic atoms necessary to complete a nucleus selected from the group consisting of benzothiazole, benzoselenazole, naphthothiazole and naphthoselenazole and Z represents the non-metallic atoms necessary to complete a nucleus selected from the groups consisting of five-membered and six-membered heterocyclic nuclei.

2,165,339
PHOTOGRAPHIC EMULSION
Leslie G. S. Brooker, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application September 16, 1936, Serial No. 101,105
10 Claims. (Cl. 95—7)

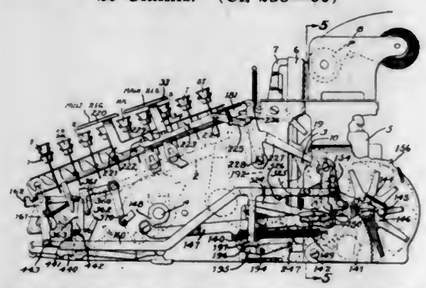


1. A photographic silver salt emulsion containing a sensitizing dye selected from the group of dyes characterized by the following formula:



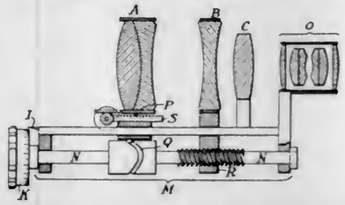
wherein A represents an atom selected from the group consisting of oxygen and sulfur, *n* represents a positive odd integer not greater than five, R represents a substituent selected from the group consisting of hydrogen, alkyl groups and acyl groups, R' represents an aryl group selected from the group consisting of aryl groups of the benzene and naphthalene series and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of five-membered and six-membered heterocyclic nuclei.

2,165,340
CALCULATING MACHINE
Thomas M. Butler, Detroit, Mich., assignor to Burroughs Adding Machine Company, Detroit, Mich., a corporation of Michigan
Application October 12, 1935, Serial No. 44,751
20 Claims. (Cl. 235—60)



1. A calculating machine having amount determining differential mechanism, a rotatable register support carrying a plurality of registers, means for moving said support in a given direction, a plurality of radial arms carried by said support, and indexing means for said support including a stop mechanism adapted to engage said arms so that said rotary support can be indexed from any indexed position to any other index position by movement in said given direction.

2,165,341
PHOTOGRAPHIC OBJECTIVE
John G. Capstaff and Oran E. Miller, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 28, 1936, Serial No. 93,026
18 Claims. (Cl. 88—57)

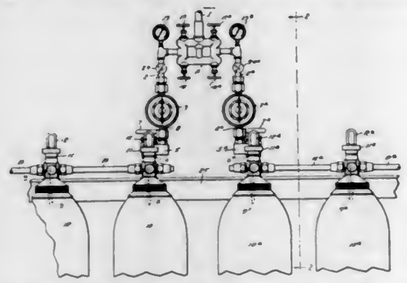


1. An optical system of variable equivalent focal length, of substantially constant back focus and of substantially constant effective relative aperture comprising an ordinary photographic objective adapted for use with lenticular film and focused to have its image plane and back focal plane substantially coincident, a multicolor banded filter mounted immediately in front of said objective, a lens immediately in front of said image plane to cause said filter to appear infinitely distant, a beam splitter mounted in front of said multicolor filter to provide the same perspective to at least two of the color bands of said filter, a view finder light accepting means comprising a reflector mounted adjacent to said beam splitter, an auxiliary optical device mounted detachably in front of and coaxial with said beam splitter, comprising at least three lenses adapted to collect light incident thereon and direct it in a collimated beam to said beam splitter and to said view finder light accepting means, said lenses being mounted for relative axial movement in a predetermined manner to maintain said collimation and to produce continuously variable magnification without substantially affecting the front focus of the system, mechanical means for imparting said predetermined relative movement to said lenses, means for indicating the position of said lenses as controlled by said mechanical means and manually actuatable means for independently adjusting one of said lenses for focusing the system.

2,165,342
MEANS FOR DISPENSING FLUIDS FROM CONTAINERS
Lorn Campbell, Jr., Lakewood, Ohio
Application April 26, 1937, Serial No. 138,876
5 Claims. (Cl. 230—95)

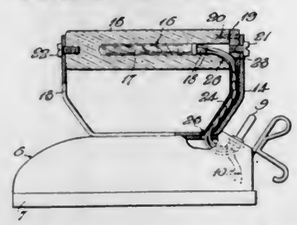
1. An expirator comprising a body having an injector nozzle arranged to discharge into a conduit and having a pair of passageways each comprising passages leading to the space surrounding said nozzle and to the bore of said nozzle, an inlet pipe connected with each of said passageways, and valves for controlling the flow of fluid

through said passageways whereby the fluid supplied to either of the same may be delivered



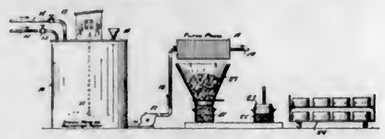
around the injector nozzle or through the bore of said nozzle.

2,165,343
ELECTRIC IRON
Taylor Cole, Midland, Tex., assignor to Cherie Cole, Austin, Tex.
Application September 28, 1937, Serial No. 166,158
Renewed May 19, 1939
3 Claims. (Cl. 177—311)



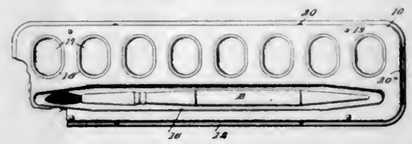
1. An electric flat-iron comprising a body provided with a heating element and contacts connected therewith, front and rear handle brackets projecting upwardly from said body, a handle pervious to light and extending between said brackets, means securing said handle to said brackets and leaving the major central longitudinal portion of said handle unoccupied by any portion of said securing means, said major central longitudinal portion of said handle being provided with a longitudinal cavity, an elongated handle-illuminating bulb mounted in said cavity, and conductors for said bulb operatively connected with said bulb and said contacts.

2,165,344
SOLID MATERIAL FROM WASTE LIQUOR
Henry Seymour Colton, Shaker Heights, Ohio, assignor to H. Seymour Colton, M. J. Rentschler, and James A. Weeks, as trustees
Application March 17, 1938, Serial No. 196,491
18 Claims. (Cl. 106—27)



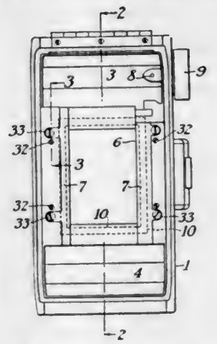
1. A plastic composition of matter adapted for formation into useful products by molding, extrusion or the like, comprising largely a joint precipitate of calcium sulphate and iron hydroxide.

2,165,345
WATER COLOR PAINT BOX
Carle C. Conway, Jr., and Charles C. Morrison, New York, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application June 29, 1938, Serial No. 216,567
7 Claims. (Cl. 41—4)



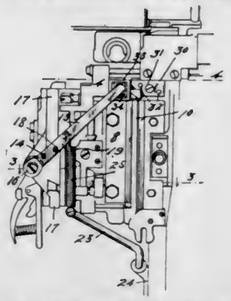
7. A paint box comprising a base section having paint and brush receptacles and including a depending peripheral flange, a cover section having the edge thereof extending downwardly and outwardly and terminating in a depending flange adapted to frictionally engage the flange on said base section when the box is closed, and spaced projections extending outwardly from said cover section between the downwardly and outwardly extending portions at the edge thereof, the edge of the base flange on a superimposed box being adapted to engage the outwardly extending portion on a cover section thereunder and said projections being adapted to engage the inner surface of the superimposed base flange whereby to permit the stacking of boxes one upon the other.

2,165,346
FOLDING CAMERA CONSTRUCTION
Chester W. Crumrine, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 31, 1937, Serial No. 182,845
6 Claims. (Cl. 95—31)



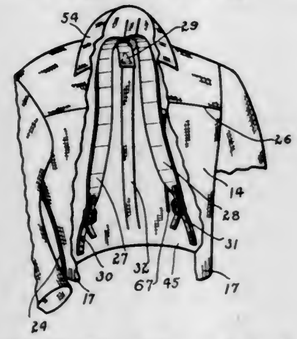
1. In a photographic camera, the combination with a camera body forming one camera part, of a foldable camera part carried by the camera body, means for attaching the two camera parts, said attaching means including a plurality of manually movable threaded fastening members on one part, threaded sockets on the other part into which the threaded fastening members fit, a plurality of set screws threaded to one part and contacting with the other part for varying the relationship between the camera body part and the folding camera part on assembling said parts, said camera body part including a groove, and a flange on the other camera part lying in the groove and making a light-tight connection therewith.

2,165,347
MEANS FOR LUBRICATING THE SIDE-TRIMMING KNIVES IN A TYPE CASTING MACHINE
George L. Curle, Minneapolis, Minn.
Application September 3, 1937, Serial No. 162,325
2 Claims. (Cl. 199—62)



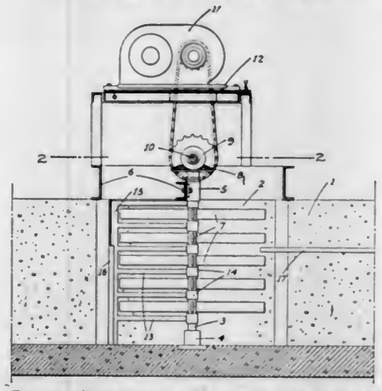
1. In a type casting machine, means on the vise frame for holding a substance saturated with a lubricant, in combination with a pair of long laterally spaced trimming knives on the vise frame for trimming the sides of a type slug as the same is forced therebetween, a flat wiper blade pivoted relative to the vise frame, at one side of the trimming knives with its free end portion normally resting on the substance, and for edgewise movement therefrom onto the trimming knives, and means for oscillating the wiper blade to move the same longitudinally on the trimming knives and then return the same thereon to the substance, whereby during the forward stroke of the wiper blade, a shearing action is produced between the wiper blade and the trimming knives to remove metal from the trimming knives cut from a type slug and following said shearing action, the lubricant adhering to the wiper blade from the substance, is wiped by said blade transversely oblique onto the trimming knives, and during the return stroke of the wiper blade the lubricant is redistributed on the trimming knives in a reverse direction from that in which it was applied thereto.

2,165,348
COMBINATION OUTDOOR JACKET AND PACK
Ome C. Dalber, Seattle, Wash.
Application February 17, 1937, Serial No. 126,302
3 Claims. (Cl. 2—94)



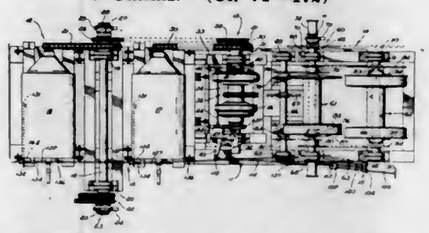
1. The combination with a jacket, of an exterior rear pocket comprising a back wall secured at the shoulder portion of the jacket, spaced foldable side walls joining said jacket and back wall with their lower ends terminating above the bottom edge of the jacket, one of said side walls having an opening and a closure therefor, said back-wall having a downward extension below the pocket, and detachable means for fastening said extension to the jacket.

2,165,349
BEET FLUME CONTROL MECHANISM
Gustave J. Daley, Stockton, Calif., assignor, by mesne assignments, to The Stearns-Roger Manufacturing Company, Denver, Colo., a corporation of Colorado
Application December 13, 1937, Serial No. 179,540
13 Claims. (Cl. 302—14)



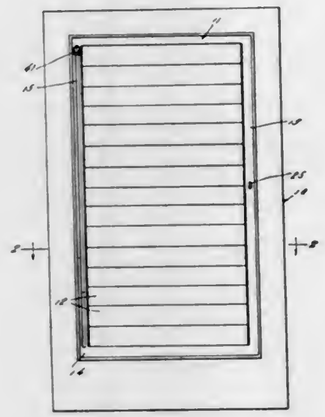
1. In combination, a flume to carry a flow of water and objects in and moved along by the water, and a driven turnstile structure mounted in the flume and arranged to allow of an unrestricted flow of the water but restricting the movement of the objects to an extent determined by the speed of the turnstile structure.

2,165,350
CONTROL FOR FOUR-SPEED PORTABLE DRILLING MACHINES
William D. Davidson and Guglielmo Tremolada, Los Angeles, Calif., assignors to Emsco Derrick and Equipment Company, Los Angeles, Calif., a corporation of California
Application July 6, 1936, Serial No. 89,096
7 Claims. (Cl. 74—472)



1. In an apparatus of the character described, the combination of: a reverse gear mechanism including a swinging control lever; an engine operably connected to drive said reverse gear mechanism; an operating member journalled for rotational and longitudinal movement; a link swiveled to said operating member and to said control lever and operable to swing said lever when said operating member is moved longitudinally; a shaft having means associated therewith for actuating the throttle of said engine when said shaft is rotated; and means rotatable with said operating member for rotating said shaft.

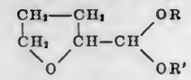
2,165,351
ADJUSTABLE AND CONTROLLABLE VENTILATOR MEANS
Harry Valentine Derveaux, Miami Beach, Fla.
Application January 6, 1938, Serial No. 183,736
3 Claims. (Cl. 98—110)



1. In a construction of the class described, a relatively stationary frame, a pair of complemental ventilating slats mounted for oscillation in bearings in said frame, said slats having superposed parallel trunnions at corresponding ends, duplicate rocker devices carried by said trunnions, said rocker devices constituting trip and regulating means, a relatively movable slide on said frame, and means on said slide for selectively engaging said rocker devices, whereby to individually open and close said slats in the manner and for the purposes described.

2,165,352
YARN TREATING PROCESSES AND COMPOSITIONS THEREFOR
Joseph B. Dickey and James B. Normington, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 26, 1937, Serial No. 176,694
18 Claims. (Cl. 28—1)

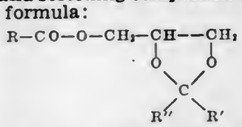
1. The process of conditioning yarn to render it more amenable to textile operations including knitting, weaving, spinning and the like which comprises applying thereto a lubricating and softening composition containing an acetal of tetrahydrofurfural having the general formula:



where R and R′ are organic radicals selected from the group consisting of alkyl and alkoxyalkyl groups.

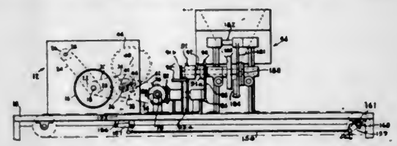
2,165,353
YARN TREATING PROCESSES AND COMPOSITIONS THEREFOR
Joseph B. Dickey and James B. Normington, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application November 26, 1937, Serial No. 176,696
18 Claims. (Cl. 28—1)

1. The process of conditioning yarn to render it more amenable to textile operations including knitting, weaving, spinning and the like which comprises applying thereto a lubricating and softening composition containing as its essential lubricating and softening component acetal esters having the formula:



where R is a substituent selected from the group consisting of hydrogen and alkyl; R′ and R″ are substituents selected from the group consisting of hydrogen, part of a cyclic chain of carbon atoms, alkyl, aryl, and heterocyclic groups; and wherein in R a substituent of the group consisting of hydroxy and alkoxy groups may replace hydrogen.

2,165,354
COMBINED CYLINDER FORMING AND FILLING MACHINE
Harry B. Duane, Boston, and Walter H. Long, Malden, Mass., assignors to The Smack Corporation, New York, N. Y., a corporation of Delaware
Application October 3, 1936, Serial No. 103,912
14 Claims. (Cl. 93—3)

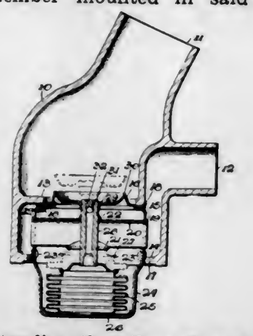


1. In a single machine for making and filling individual containers, the combination comprising a conveyor, a mechanism for forming a closed bottom container including means for ejecting the completed container and means for depositing the same on the conveyor, a measuring and filling mechanism including means for ejecting therefrom a measured amount of material and depositing the same in a container supported upon said conveyor, a motor, operating connections therefrom to said container forming mechanism, operating connections therefrom to said conveyor, and operating connections therefrom to said measuring and filling mechanism, said operating connections being so related that a container is deposited on said conveyor as another container is being filled and the operation of said machine is continuous.

2,165,355
TEMPERATURE REGULATOR
John E. Dube, Knoxville, Tenn., assignor to The Fulton Sylphon Company, Knoxville, Tenn., a corporation of Delaware
Application August 19, 1938, Serial No. 225,835
3 Claims. (Cl. 236—34)

1. In a temperature regulator of the type de-

scribed a casing having an outlet and a by-pass outlet, a cylindrical member mounted in said casing and separating said outlets, a valve seat formed in the upper end of said cylindrical member opening into said first named outlet, a valve member designed to engage said valve seat, a tubular member mounted in said cylindrical



member extending therethrough and opening at both ends into said by-pass outlet, an aperture in said tubular member, and a thermostatic element connected to said valve member to raise said valve member from said valve seat and close said aperture in said tubular member when the temperature reaches a predetermined value.

2,165,356
DRY-CLEANING FLUID

Charles Dunbar, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application March 10, 1936, Serial No. 68,137. In Great Britain March 13, 1935

6 Claims. (Cl. 87—5)

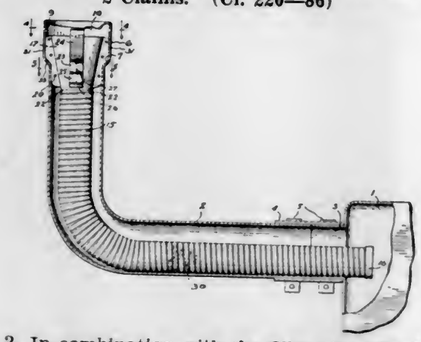
2. A dry cleaning fluid consisting of a dry cleaning solvent containing from 0.2 to 0.5% of a surface active organic compound selected from the group consisting of quaternary ammonium, quaternary phosphonium and ternary sulphonium salts, the positive ion of which compound contains an aliphatic radical having a chain of 8 to 22 carbon atoms.

2,165,357
VENT TUBE FOR FUEL TANKS

George W. Emmert, Bloomfield Hills, Mich.

Application October 14, 1938, Serial No. 235,049

2 Claims. (Cl. 220—86)



2. In combination with the filler pipe of a fuel tank in an automotive vehicle having an enlarged portion at its open end defined by a shoulder spaced from the extreme end and having a bayonet type extreme end structure for the reception of a cap, of a vent tube comprising, a flexible metal body in the filler pipe, a sheet metal inlet device comprising two stampings with flanges disposed in opposed relationship and with the flanges secured together, said inlet device being of funnel shape with the smaller end secured to the flexible tubular body, said flanges having shoulders for resting upon the shoulder of the filler tube and portions for engaging the interior of the enlarged portion, and spring arms on the inlet device spaced circumferentially from the flanges and arranged to be moved past the bayonet structure on the filler pipe and to underlie an overhanging part on the filler pipe and to engage the inner walls of the enlarged portion, said vent tube having an outside diameter smaller than the inside diameter of the filler pipe and the said flanges and spring arms holding the inlet device spaced from the inner surfaces of the enlarged portion of the filler pipe to define a vent space.

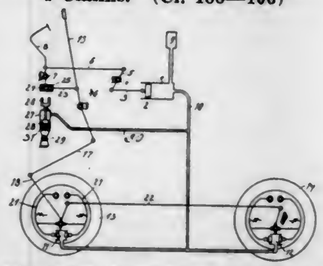
2,165,358
VEHICLE BRAKE

Ernst Engel, Frankfort-on-the-Main, Germany, assignor to Alfred Teves Maschinen- und Armaturen-Fabrik Gesellschaft mit beschrankter Haftung, Frankfort-on-the-Main, Germany

Application June 14, 1935, Serial No. 26,676

In Germany February 11, 1935

4 Claims. (Cl. 188—106)



1. A vehicle brake system comprising a set of brakes, a hydraulic brake operating gear, a separate brake operating gear, a slotted guide associated with the said separate operating gear, a member associated with the hydraulic operating gear slidable in said guide, a forked device to embrace said slidable member to hold it against motion relatively to said slotted guide, a plunger connected to said forked device, a cylinder within which said plunger operates, a spring urging said plunger to bring said forked device into engagement with said slidable member and a conduit connecting the conduit for the hydraulic medium with said cylinder on the side of the plunger opposite to the spring.

2,165,359
DRESS SHIELD

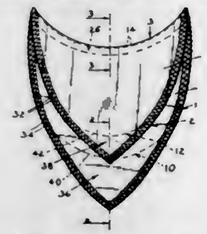
Le Roy Eisenberg, Flushing, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y., a corporation of New York

Application June 21, 1937, Serial No. 149,330

3 Claims. (Cl. 2—53)

1. A garment shield of the kind described having an upper concave edge and comprising two sections united at said concave edge and otherwise separable from each other, each of said sections including an inner waterproof flap and an outer cloth flap, each cloth flap of said two sections comprising opposed layers between which the companion waterproof flap is disposed and thereby covered, said opposed layers of the cloth flap of one of said sections extending beyond the lower edge of its companion waterproof flap to

provide for pinning the lower tip of the former above its lower edge without penetration of the waterproof flap by the pin, said last mentioned cloth flap having convexly curved side edges extending from the opposite ends, respectively, of said concave edge along converging lines throughout their extent to said tip thereof whereby said



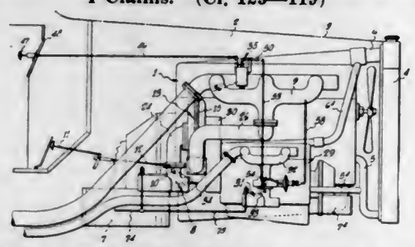
last mentioned section is approximately triangular so that when it is pinned to the garment at said tip and at the opposite ends of said concave edge the lines of pull between the tip and said ends are sufficiently close to said convexly curved edges, respectively, to prevent substantially curling of said last mentioned section.

2,165,360
SUPERCHARGER SYSTEM FOR MOTOR VEHICLES

Frank R. Elliott, Los Angeles, Calif., assignor to Ethyl Gasoline Corporation, Detroit, Mich., a corporation of Delaware

Application January 10, 1938, Serial No. 184,281

4 Claims. (Cl. 123—119)



1. The combination of a main internal combustion engine of the Otto cycle type; a supercharger for said main engine, an auxiliary internal combustion engine operatively connected to drive said supercharger, and a control device for said auxiliary engine comprising a movable member connected to the throttle valve of the auxiliary engine and operatively connected to the intake manifold of the main engine to respond to the varying pressures therein and manual control means acting on said member for presetting the latter whereby response of the member to the intake manifold pressure varies the operation of the auxiliary engine to maintain a substantially constant supercharger output pressure.

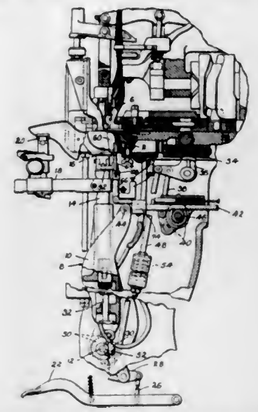
2,165,361
MACHINE FOR FASTENING UPPERS TO INSOLES

Karl Engel, Swampscott, and Charles S. Kinney, Middleton, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application March 9, 1938, Serial No. 194,804

15 Claims. (Cl. 12—4)

1. In a machine for fastening in lasted relation to insoles the previously formed heel parts of uppers unattached to the foreparts, a work support arranged to support a form with an insole and such a formed heel part of an upper mounted thereon, means for fastening said heel part to the insole around the end and along the sides of the heel portion of the insole, said work support being mounted for swinging movement in a direction lengthwise of the form to present the work to



the fastening means, and a member into engagement with which the heel part of the upper is carried by such movement of the work support prior to the completion of that movement, said member being mounted to swing about a different axis than the work support throughout the remainder of said movement of the support while holding the heel part of the upper clamped against the form.

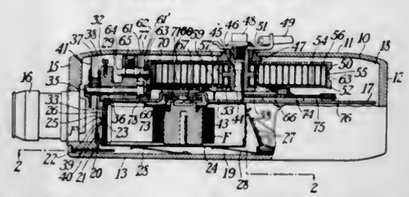
2,165,362
DRIVING MECHANISM FOR MOTION PICTURE APPARATUS

Henry N. Fairbanks and Carter J. Hughey, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 17, 1937, Serial No. 137,490

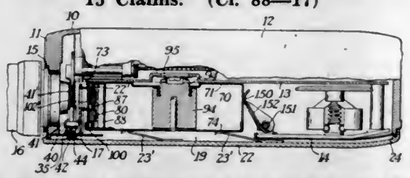
In Germany January 20, 1937

8 Claims. (Cl. 88—17)



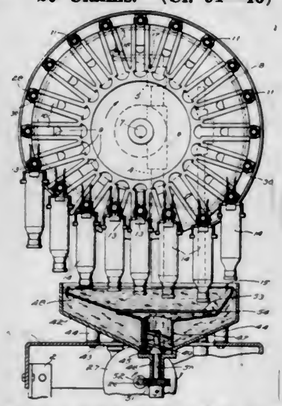
1. In a motion picture apparatus the combination with a crown gear of large diameter, a support at the center of said gear and on which said gear rotates, a motor spring of a width less than that of the crown of the crown gear contained within said crown gear, said motor spring having one end attached to the crown of said crown gear and the other end attached to said support, a pinion gear, and a stationary journal for supporting said pinion gear in engagement with said crown gear, of a guide means engaging said crown gear adjacent said pinion gear and for maintaining proper and uniform engagement between said gears.

2,165,363
MOTION PICTURE APPARATUS
Henry N. Fairbanks, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 11, 1937, Serial No. 130,343
In Germany September 19, 1936
15 Claims. (Cl. 88—17)



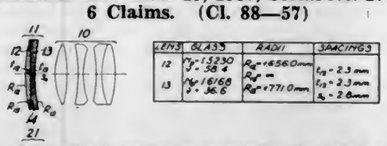
1. In a motion picture apparatus provided with a magazine chamber, and a door for closing the same, the combination with a film magazine adapted to be inserted into and removed from said magazine chamber, and comprising a casing having a lateral wall provided with an exposure aperture, a shutter for covering said aperture, means in said casing normally holding said shutter in covering relation with respect to said aperture, a pin connected to said shutter and extending from the magazine, of an abutment in said apparatus against which said film magazine is held for the proper location thereof, and an operating means in the apparatus operated by said door in closing and for engaging said pin to open said shutter when operated, said operating means permitting, after said shutter is open, additional movement of said door without any additional movement of said shutter.

2,165,364
METHOD OF AND APPARATUS FOR COATING ARTICLES BY DIPPING
Enoch T. Ferngren, Little Neck, N. Y., assignor to Fernplas Corporation, Toledo, Ohio, a corporation of Delaware
Application January 19, 1938, Serial No. 185,678
20 Claims. (Cl. 91—46)



4. Apparatus for applying film coatings to selected portions of articles, comprising a receptacle for a pool of a film-forming liquid, a head rotatable about a substantially horizontal axis above and adjacent to said receptacle, a plurality of spindles carried by and movable radially in respect to said head, said spindles being arranged substantially parallel to said axis, article supporting means each constructed and arranged to grasp at least one article and to be supported respectively on said spindles, means for rotating said head to move said article supporting means to dip the articles held therein into the pool of film-forming liquid in said receptacle, and means for controlling the radial movement of said spindles in respect to said head to control the rate of immersion and withdrawal of said articles into and out of the pool in said receptacle.

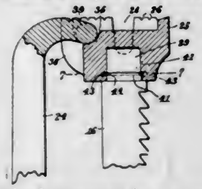
2,165,365
LENS ATTACHMENT
Charles W. Frederick and Willy Schade, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application November 19, 1937, Serial No. 175,472
6 Claims. (Cl. 88—57)



LENS	GLASS	RADII	SPACINGS
12	Ng. 1.5230 ν. 58.4	R_8 = 1656.0mm R_9 = —	t_{12} = 2.3 mm
13	Ng. 1.6168 ν. 36.6	R_{10} = 1771.0mm	t_{13} = 2.3 mm s_1 = 2.6mm

1. An optical system comprising in axial alignment an achromatic objective having secondary color, a light filter transmitting a limited portion of the spectrum and lens means having chromatic aberration at least in the region of said objective's achromatism whereby the combination of said lens means and said objective has a region of achromatism different from that of the objective alone, said chromatic aberration having such numerical value that said region of achromatism of the combination approximates said limited portion of the spectrum transmitted by the filter, whereby throughout this limited portion of the spectrum, the combination has less chromatic aberration than the objective alone.

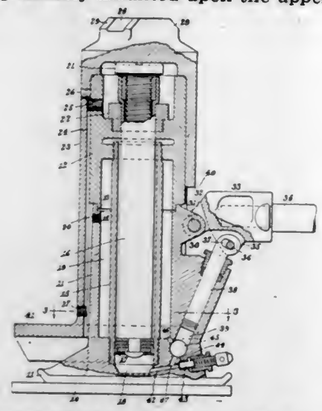
2,165,366
SWIVEL CAP FOR LIFTING JACKS
Frank L. Gormley, Chicago, Ill., assignor to The Buda Company, Harvey, Ill., a corporation of Illinois
Application December 27, 1938, Serial No. 247,876
6 Claims. (Cl. 254—133)



1. A lifting jack comprising a vertically movable and non-rotatable bar having a cylindrical upper end provided with an annular flat sided groove in the periphery thereof, a rotatable cap therefor having in the bottom thereof a socket fitting said cylindrical upper end and provided with a deep annular flat sided groove in the inner wall thereof, and a flat sided snap ring positioned in said grooves and preventing displacement of said cap, said ring being free from contact with the side walls of the groove in said cap.

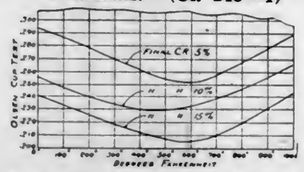
2,165,367
HYDRAULIC LIFTING JACK
Frank L. Gormley, Chicago, and Hugh S. Brown, Harvey, Ill., assignors to The Buda Company, Harvey, Ill., a corporation of Illinois
Application December 27, 1938, Serial No. 247,877
11 Claims. (Cl. 254—93)

1. A hydraulic lifting jack consisting of a cylindrical standard having formed in its lower end a housing for a pump; a vertically movable ram in said standard; a pump plunger in said housing for forcing liquid beneath said ram; a radial lever pivoted to a side wall of said standard and adapted to actuate said pump plunger; a casing slidably mounted upon the upper end of



said standard and resting on said ram; means between said casing and standard for preventing rotation and limiting end movement of said casing relatively to said standard; and a lifting foot extending outwardly from the lower portion of said casing.

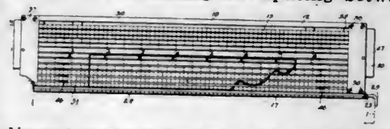
2,165,368
SHEET METAL AND METHOD OF MANUFACTURE
Norman P. Goss, Youngstown, Ohio, assignor to The Cold Metal Process Company, Youngstown, Ohio, a corporation of Ohio
Application February 20, 1936, Serial No. 64,868
7 Claims. (Cl. 148—4)



1. In a method of making sheet metal suitable for the manufacture of containers, the steps including reducing low-carbon steel strip by cold-rolling to a thickness less than 40% of the original thickness and about 15% greater than the desired final gauge without intermediate annealing, heating the strip above the A_3 point for a time sufficient to cause recrystallization, cooling the strip in strand form, reducing the thickness of the strip about 15% by cold rolling, and heating the strip to a temperature between 300° and 1100° F. to age it and develop Schopper values for yield point above 30 kilograms per square millimeter with and across the grain.

2,165,369
TEMPLATE
Ralph C. Grace, San Francisco, Calif.
Application September 8, 1937, Serial No. 162,897
14 Claims. (Cl. 33—185)

1. A template of the character described comprising a rectangular frame having a top member, a bottom member and end members, a plurality of bars having their ends slidable in the end members, and means associated with each end member for adjusting the spacing between



the adjacent ends of the bars in a single operation.

2,165,370
CARCINOMA ANTIGEN
Benjamin Gruskin, Philadelphia, Pa., assignor to Lakeland Foundation, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 6, 1936, Serial No. 104,341
11 Claims. (Cl. 167—78)

1. The method of making an antigen for injection intradermally in a body to determine if carcinoma exists in a body which consists in suspending a protein of epithelial embryonic cells which are obtained from the sub-maxillary glands of embryonic mammals in a solution of decinormal sodium hydroxide, separating the extracted protein, neutralizing and buffering, passing through a bacteria proof filter, and heating to about 80° C.

2,165,371
SARCOMA ANTIGEN
Benjamin Gruskin, Philadelphia, Pa., assignor to Lakeland Foundation, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 6, 1936, Serial No. 104,342
9 Claims. (Cl. 167—78)

1. An antigen specific to the diagnosis of sarcoma by intradermal injection comprising a neutralized, inorganic alkaline hydroxide extract of embryonic connective tissue cells obtained from embryo mammals.

2,165,372
PRODUCTION OF A HIGH QUALITY LUBRICATING OIL
Wolfgang Haag, Mannheim, and Gerhardt Hofmann and Hermann Zorn, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application August 14, 1936, Serial No. 96,054. In Germany August 17, 1935
6 Claims. (Cl. 196—10)

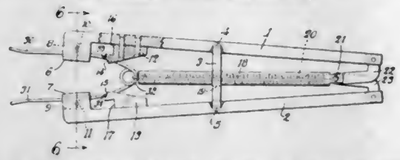
1. The process of producing a high quality lubricating oil which comprises contacting with a polymerizing agent, selected from the group consisting of anhydrous aluminum chloride containing less than 5 per cent of residue incapable of sublimation and the double compounds of such aluminum chloride with olefines, at a polymerizing temperature and in the presence of an inert solvent a gas essentially comprising ethylene, which gas is free from oxygen and sulphur and the compounds of these elements the reacting materials being precluded from contact with free iron.

2,165,373
PRODUCTION OF LUBRICATING OILS
Gerhard Hofmann, Leuna, Wolfgang Haag, Mannheim, and Hermann Zorn, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application April 23, 1938, Serial No. 203,896. In Germany April 24, 1937
4 Claims. (Cl. 196—10)

1. The process of producing a high quality

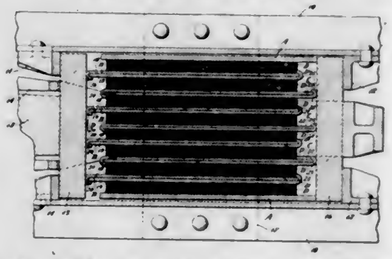
lubricating oil which comprises contacting with a polymerizing agent, selected from the group consisting of anhydrous aluminum chloride containing less than 5% of residue incapable of sublimation and the double compounds of such aluminum chloride with olefins, at a polymerizing temperature and in the presence of an inert solvent a gas essentially comprising an olefin selected from the group consisting of propylene and α-butylene, which gas is free from oxygen and sulfur and the compounds of these elements, the reacting materials being precluded from contact with free iron.

2,165,374
TWEEZERS
William L. Heilig, Chicago, Ill.
Application October 14, 1938, Serial No. 234,949
7 Claims. (Cl. 128—354)



1. In a tweezers device, a pair of handle members movable toward and away from each other, a gripping assembly, including opposed gripping members, mounted one on each of said handle members, means for moving said gripping members together into gripping contact in response to the movement of said handle members toward each other, means for normally holding said gripping members in extended position, and means for sharply retracting them after a predetermined approach toward each other of the handle members.

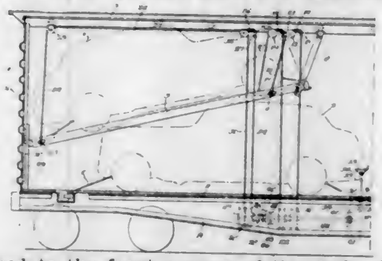
2,165,375
SHOCK ABSORBING MECHANISM
William A. Heitner, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application May 7, 1938, Serial No. 206,626
4 Claims. (Cl. 213—44)



1. A cushioning mechanism composed of a plurality of elongated units arranged side by side, each unit comprising an elongated rubber pad, and elongated plates secured to opposite sides of said pad, said plates being disposed lengthwise of said pad, each of said plates having one end thereof projecting outwardly beyond the pad and beyond the corresponding end of the other plate.

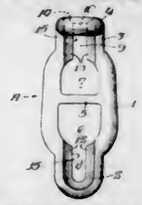
2,165,376
AUTOMOBILE SUPPORTING MEANS
Walter S. Helmer, Oak Park, Ill.
Application September 7, 1937, Serial No. 162,803
6 Claims. (Cl. 105—368)

1. In mechanism for elevating an automobile in a freight car, a rectangular shaped deck upon which an automobile is supported, a flexible member attached to each corner of the deck, pulleys located adjacent the roof of the car over which said flexible members pass, two sets of winding drums fixed to the car body, one set of which is adapted to wind thereon the two flexible members attached to the rear corners of the deck and the other set of which is adapted to wind thereon the two flexible members at-



tached to the front corners of the deck, clutch mechanism associated with the two sets of drums adapted to connect or disconnect the two sets of drums, a shaft for said drums and means to rotate said shaft whereby both sets of drums may be revolved simultaneously to wind thereon the flexible members to raise the deck or one set of drums may be independently revolved to wind thereon flexible members to raise the front end only of the deck.

2,165,377
CHAIN HOLDING DEVICE
Ernest W. Henry, Battle Creek, Mich.
Application October 6, 1937, Serial No. 167,607
5 Claims. (Cl. 24—116)

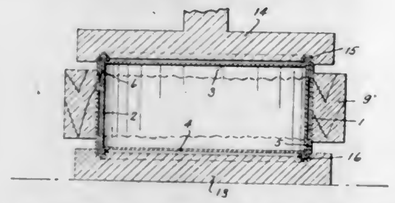


1. A tie-down device comprising a chain, a loop associated therewith having a central widened portion and narrow end portions, one of said narrow portions being elongated and disposed at substantially a right angle to the main body of said loop, a bridge piece connecting the central widened portion providing openings of unequal size on opposite sides of said bridge piece, each of said narrow end portions of said loop defining a slot and an enlarged link located at the end of said chain of such diameter to permit its insertion through the larger opening on one side of said bridge piece but of such diameter as to prevent its insertion through the smaller opening on the other side of said bridge piece.

2,165,378
VACUUM DISTILLATION
Kenneth C. D. Hickman, Rochester, N. Y., assignor, by mesne assignments, to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware
No Drawing. Application February 15, 1936, Serial No. 64,178
8 Claims. (Cl. 202—52)

1. The process of distilling a liquid substance which contains no added solid matter and which deposits non-volatile viscous or solid residue during high vacuum distillation while in the form of a thin film which process comprises, adding to this liquid substance to be distilled an organic, freely flowing liquid which has a lower vapor pressure than the fraction to be separated and which is miscible with the liquid substance to be distilled, subjecting this mixture to distillation by flowing it in the form of a thin film over a heated vaporizing surface, condensing the distillate upon a condensing surface which is located in close proximity to the vaporizing surface and maintaining a high vacuum in the space between the vaporizing and condensing surfaces during the distillation.

2,165,379
METHOD OF MAKING TOY DRUMS
Ralph H. Hiers, Granville, Mass.
Original application May 13, 1936, Serial No. 79,441. Divided and this application May 12, 1937, Serial No. 142,151
3 Claims. (Cl. 153—1)

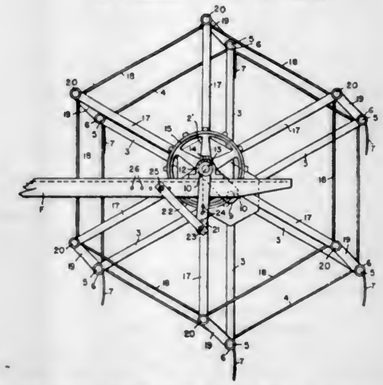


1. The method of making a toy drum which consists in forming a cylinder to predetermined drum diameter from stiff but yieldable material such as cardboard and celluloid sheets, forming two disk-shaped members from drum head material, placing said members on the ends of the cylinder, wrapping the cylinder with a sheet of drum body material such as sheet metal and overlapping said sheet on the cylinder, and, while holding the wrapped sheet tightly on the cylinder and with the cylinder empty, rolling down the edges of said sheet at each end to permanently pinch the periphery of both drum heads, the lining material and the wrapping material into a permanent drum structure, the material of said drum heads being tensioned in said last-named step.

2,165,380
REACTION PRODUCTS OF A META-SUBSTITUTED PHENOL AND FORMALDEHYDE
Herbert Hönel, Vienna, Austria, assignor to Helmuth Reichhold, Detroit, Mich., doing business as Reichhold Chemicals
No Drawing. Application August 1, 1936, Serial No. 93,921. In Austria August 1, 1935
2 Claims. (Cl. 260—51)

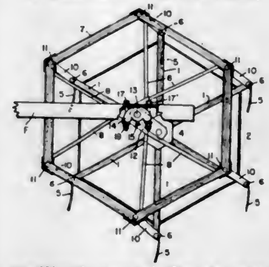
1. A resol obtained from a methylene containing agent and a phenol having all particularly reactive positions (o-, o-, p- to the phenolic hydroxy group) unoccupied but at least one of the meta-positions occupied by a saturated substituent of aliphatic nature containing more than two carbon atoms capable of reaction with (1) high molecular substances carrying carboxylic groups, (2) substantially neutral high molecular substances (α) of aliphatic nature being rich in oxygen, (β) of aromatic, hydroaromatic, mixed aliphatic-aromatic nature, and (3) neutral high molecular substances of aliphatic nature, to produce homogeneous reaction products.

2,165,381
ROTARY REEL
Horace D. Hume and James E. Love, Garfield, Wash.
Application April 15, 1938, Serial No. 202,292
12 Claims. (Cl. 56—226)



1. The combination in a rotary reel having tines capable of a supplemental movement, with a pair of spaced crank-axles on which the reel is journaled, and spaced frame members, of driving-sleeves mounted on said crank-axles and bearings in the frame members for said sleeves, means for rotating the sleeves, and means actuated by the sleeves for causing supplemental movement of the tines.

2,165,382
ADJUSTABLE MOUNT
Horace D. Hume and James E. Love, Garfield, Wash.
Application April 15, 1938, Serial No. 202,293
6 Claims. (Cl. 56—226)

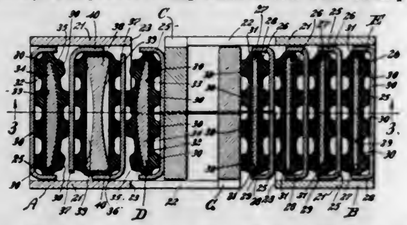


6. In a resilient mount for a rotary reel, the combination with an axle, a rotary reel mounted thereon, tines mounted on the reel for supplemental movement, and a frame, of a radially offset stub-axle, a head block mounted on the stub-axle, adjustable means for mounting the head-block in said frame, a spring device embodied in said adjustable means to provide resiliency for the mount, an auxiliary rotary head journaled on the stub-axle, and power transmission means between the rotary head and said tines.

2,165,383
SHOCK ABSORBING MECHANISM
George A. Johnson and Edward H. Lehman, Chicago, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application February 21, 1938, Serial No. 191,697
15 Claims. (Cl. 213—53)

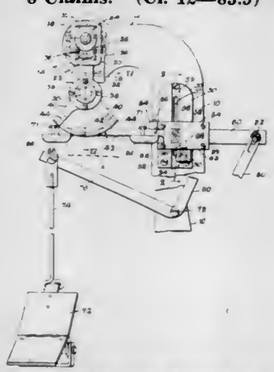
1. In a shock absorbing mechanism, the com-

bination with a casing; of a gang of rubber pads in said casing, each pad having spaced projections on opposite sides thereof; a gang of spacing plates, said plates being alternated with said pads



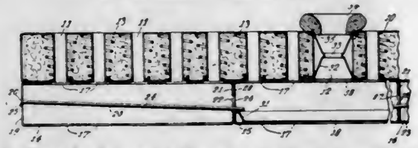
and bearing on the projections of the latter; and relatively movable follower means at opposite ends of said casing bearing on opposite ends of said assembled pads and plates.

2,165,384
TRIMMING MACHINE
Jacob S. Kamborian, Newton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application February 24, 1938, Serial No. 192,381
8 Claims. (Cl. 12—83.5)



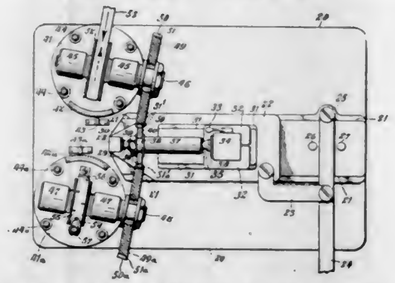
1. A trimming machine having, in combination, a power operated cutter arranged to sever surplus material from the bottom of a lasted shoe moved past the cutter, a member arranged to be engaged by the shoe bottom for controlling the depth of the cut made by said cutter, and laterally shiftable gaging means movable to one position for guiding one side of the shoe with respect to the cutter and to another position for guiding the opposite side of the shoe with respect to the cutter.

2,165,385
SANITARY BED
Catherine B. Kane, Greenwich, Conn.
Application September 30, 1938, Serial No. 232,537
4 Claims. (Cl. 5—91)



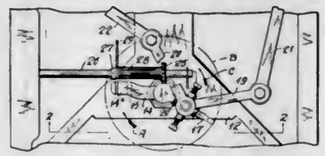
1. In a bed, means for supporting a perforated mattress comprising a plurality of hollow boxes mounted side by side and having a combined area equal to the area of the mattress, said boxes having openings through their top and bottom walls, said boxes constituting a middle box and two end boxes, said middle box having a wide slot through each of its end walls, said end boxes each having a wide slot through its inner end wall aligned with one of said middle box slots and a narrow slot through its outer end wall, boards slidably mounted in said end boxes and insertable through said end wall slots thereof, said boards having their inner ends resting on the lower edges of their said wide inner wall slots and projecting into said middle box, and a removable pan mounted on the floor of said middle box.

2,165,386
MEANS AND METHOD OF LAPPING THE CURVED SURFACE OF GEARS AND THE LIKE
Alfred W. Klomp, Detroit, Mich., assignor, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application July 11, 1934, Serial No. 734,609
16 Claims. (Cl. 51—278)



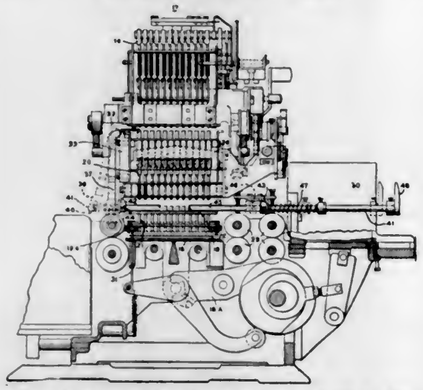
1. The method of lapping a gear consisting of engaging said gear with a lap, which, when running in mesh with said gear, has a medial line of rolling contact with each successive tooth flank of said gear and abrades said tooth flank above and below said line of rolling contact, said line of rolling contact being disposed obliquely with reference to the normal medial line of rolling contact of said tooth flank with the flank of a similar gear, and running said gear and said lap together.

2,165,387
GAS METER
William H. Knight, Jr., Shaker Heights, Ohio, assignor to The Cleveland Gas Meter Company, Cleveland, Ohio, a corporation of Ohio
Application October 7, 1937, Serial No. 167,760
6 Claims. (Cl. 73—275)



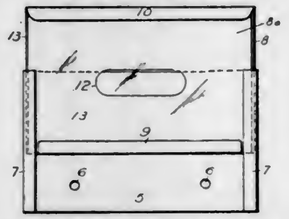
1. In a gas meter having a swinging tangent arm, a spindle actuated by said arm and a registering mechanism shaft actuated by said spindle; a stop for preventing movement of said tangent arm in a reverse direction carried by said shaft and during normal operation of the meter moved by said shaft in a plane perpendicular thereto to a position without the path of said arm while upon reverse operation of the meter it is moved by said shaft in the same plane to a position within the path of said arm.

2,165,388
CARD PUNCHING MECHANISM
Gustav H. Kroeger, Herkimer, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application February 18, 1938, Serial No. 191,179
5 Claims. (Cl. 164—112)



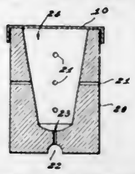
1. In a statistical card punch having a field of set bars capable of being latched into an operating position, the combination of a plate member, a lever member and a connecting rod, the said plate member being secured to the said lever member and engaging the ends of a plurality of set bars, the said lever member being pivotally mounted and engaged by the said connecting rod whereby motion is communicated to the set bars causing their partial depression, said depression releasing all the set bars in a single coacting column.

2,165,389
LICENSE CARD HOLDER
Carl G. Krook, Kingman, Ariz.
Application February 5, 1938, Serial No. 188,855
5 Claims. (Cl. 40—10)



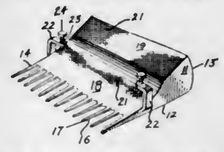
4. A device of the character described comprising a body-member having means for its attachment upon a supporting surface, and having opposed flanges providing parallel guide-ways for a vertically movable card-holding member, and a card-holding member slidable in said guide-ways and having flanges at right angles to the flanges of the body-member, said flanges being opposed to secure a license-card or the like, placed between them, and the uppermost flange engaging with the flanges of the body-member in overlapping relation thereto to suspend the holding-member in its normal position from the body-member.

2,165,390
PORTABLE HEATER
William L. Lamkin, Porterville, Calif.
Application July 15, 1937, Serial No. 153,855
1 Claim. (Cl. 44—38)



A heater of the type described comprising an elongated upright body of molded combustible material, said body having a central longitudinal chamber of inverted frustro-conical shape open at the top, adapted to receive kindling, the side walls of said body having a series of vents therethrough communicating with the chamber and the bottom wall having a central vent extending therethrough, and a channel extending across the bottom of said body open at its ends and intersecting the vent in the bottom wall.

2,165,391
HAIR TRIMMER
Harrison Lewis, San Francisco, Calif.
Application August 31, 1937, Serial No. 161,777
2 Claims. (Cl. 30—90)



1. A new article of manufacture to which a safety razor may be adjustably attached for trimming the hair to any desired length, said article comprising a body, a substantially flat bottom on said body, a concave surface on said body for cooperative adjustable engagement with the convex surface of a safety razor base, a comb merging with and extending from one longitudinal extremity of said concave surface, a flat surface contiguous to and extending from the other longitudinal extremity of said concave surface; said flat surface being inclined relative to said flat bottom and being adapted to be adjustably engaged by a flat surface of a safety razor base, and means on said body for adjustably attaching a razor to said body.

2,165,392
TREATMENT OF TEXTILE MATERIAL AND PRODUCT THEREOF
Leon Lilienfeld, Vienna, Austria
No Drawing. Application June 22, 1932, Serial No. 618,804. Renewed March 15, 1938. In Great Britain July 4, 1931
19 Claims. (Cl. 91—68)

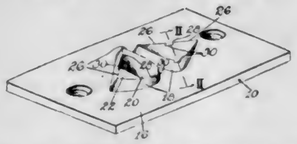
1. A treatment of textile material which comprises converting a solution containing a dissolved cellulosic material into a lather, and applying said lather to a textile material.

2,165,393
DECORATED MATERIAL AND A PROCESS FOR MAKING SAME
Leon Lilienfeld, Vienna, Austria
No Drawing. Application July 14, 1934, Serial No. 735,298. In Great Britain July 17, 1933
6 Claims. (Cl. 91—68)

1. As a new article of manufacture, a material having at least in part a pearly, silky, nacreous

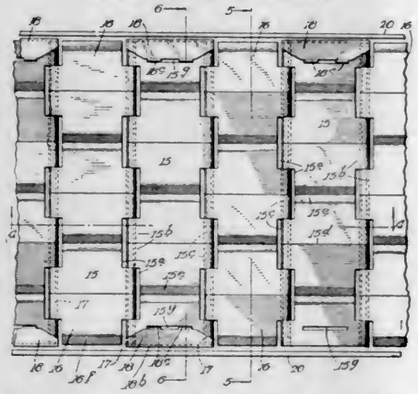
or iridescent appearance which is due to a covering on at least a part of said material containing a solidified lather which contains at least one substance selected from the group consisting of cellulose, cellulose compounds and cellulose derivatives, and which appearance is manifest even if it carries no pigment which has a pearly, silky, nacreous or iridescent appearance.

2,165,394
CUTTING DIE
Horatio S. Lyness, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Original application November 13, 1935, Serial No. 49,523. Divided and this application April 15, 1937, Serial No. 137,088
4 Claims. (Cl. 164—29)



1. A die comprising a wall beveled to form a cutting edge or edges lying in a plane, the wall having notches therein and being beveled at the bases of the notches to form auxiliary cutting edges.

2,165,395
CONVEYER BELT
Chester M. MacChesney, Chicago, and Allen B. Wilson, Evanston, Ill., assignors to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application December 24, 1937, Serial No. 181,476
6 Claims. (Cl. 198—189)



1. A conveyer belt comprising a plurality of plates, pivot pins for connecting said plates, and protector plates carried by certain of said first named plates for preventing the withdrawal of said pins, said protector plates and the plates by which they are carried having coacting interlocking parts permitting said protector plates to be readily detached.

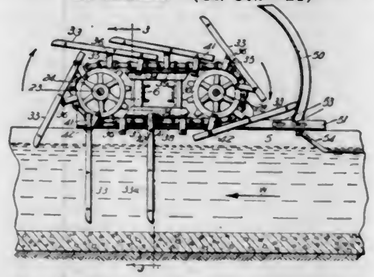
2,165,396
TAPPING MACHINE
Judson H. Mansfield, Rockford, Ill., assignor to Greenlee Bros. & Co., Rockford, Ill., a corporation of Illinois
Application March 15, 1938, Serial No. 196,025
15 Claims. (Cl. 10—135)

1. In a tapping machine, in combination with a support for a tap spindle, a bearing sleeve mounted in a bore in said support, a clamp device for securing said sleeve in angularly adjusted position to said support, a tap supporting spindle rotatably mounted in said sleeve and having one end adapted for connection to a drive means, a lead screw on said spindle, a nut for said lead screw, means for securing said nut against rotation relative to the lead screw com-



prising a tubular member secured at one end to said bearing sleeve and having a longitudinal slot and means on said nut positioned in and movable longitudinally in said slot, means for normally holding said nut against longitudinal movement comprising a coil spring surrounding a portion of the spindle and having one end engaging the rear face of the nut, and means on said tubular member engaging the other end of said spring.

2,165,397
CONTROL FOR STREAM-CONVEYED MATERIAL
John E. Mason, Denver, Colo., and Frederick H. Ballou, Vancouver, Canada, assignors to The Stearns-Roger Manufacturing Company, Denver, Colo., a corporation of Colorado
Application January 19, 1937, Serial No. 121,312
18 Claims. (Cl. 302—14)

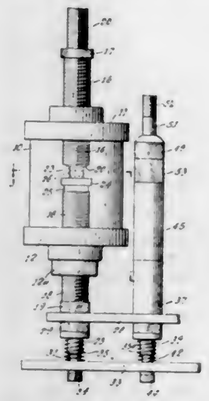


1. The combination with a stream of predetermined velocity in which sugar beets or like solids are conveyed, of a rake-carrier having rake members movable through the stream and held against tilting movement therein in a position to oppose the movement of said solids therein, and mechanism for controlling the operation of the carrier whereby to move the solids independently of the velocity of the stream.

2,165,398
FLUID DISPENSER
Michael Mazzanobile, New York, N. Y.
Application June 1, 1938, Serial No. 211,167
2 Claims. (Cl. 225—26)

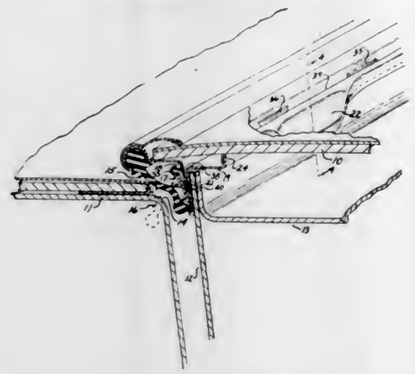
1. A fluid dispenser comprising a housing enclosing a chamber and having an inlet pipe at the top and an outlet pipe at the bottom, said pipes projecting axially into said chamber and having their ends within the chamber mutually spaced apart, a tube projecting upward through said outlet pipe into the chamber and into said inlet pipe, said tube being slidable in said pipes and having a collar thereon projecting into the space between said adjacent ends of said pipes, said tube having a transverse opening therethrough above said collars and a similar opening

below said collar, said upper opening being sealed by the lower end of said inlet pipe and said lower opening being free when said tube is in elevated position, said lower opening being sealed by the upper end of said outlet pipe and



said upper opening being free when said pipe is in lowered position, means for normally urging said tube into said latter position, and a lever attached to said tube adapted to be raised to elevate said tube.

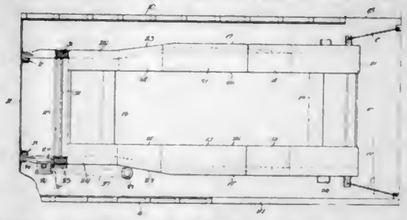
2,165,399
TRIM MOLDING
Charles E. McCormick, Dearborn, Mich.
Application August 28, 1934, Serial No. 741,831
10 Claims. (Cl. 296—44)



1. In combination with an automobile body having a frame, a door, a sheet metal retaining member on the face of the frame, and a molding unit having a metal flange engaged with the said retaining member.

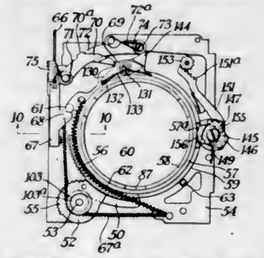
2,165,400
VEHICLE SUPPORTING DECK
George C. Meyers, Michigan City, Ind.
Application May 24, 1938, Serial No. 209,709
7 Claims. (Cl. 105—368)

1. A deck for supporting a wheeled vehicle in a freight car, the deck being narrowed at one end adjacent the end wall of the car and said deck



having relatively wide wheel supporting runways adjacent the doors of the freight car.

2,165,401
PHOTOGRAPHIC SHUTTER AND PRETIMER
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Original application October 30, 1936, Serial No. 108,396, now Patent No. 2,117,971, dated May 17, 1938. Divided and this application November 19, 1937, Serial No. 175,479
8 Claims. (Cl. 161—26)

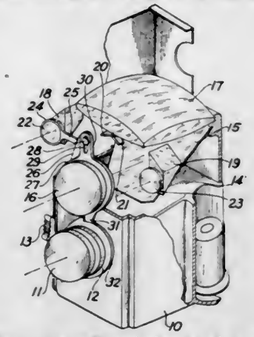


2. In a pretimer for shutters, the combination with shutter mechanism, of a driver in the form of a ring adapted to oscillate on a support, power means for moving said driver ring in one direction, an arcuate recess in the driver ring, a spring driven post, a disk oscillatably carried by said post of a size to substantially fit the arcuate recess and having also an arcuate cut out therein, a lever for manually setting said post into a position in which the disk may engage the arcuate recess and detain the driver ring, a rack pivotally attached to said post, a gear train one gear of which lies in the path of said rack and means for moving the rack into contact with said gear to retard movement of the post and disk whereby the latter may hold the blade ring by the arcuate cut out in the blade ring until the arcuate cut out in the disk is moved to a position in which the arcuate cut out of the disk faces the blade ring whereby it permits the blade ring to slip off and actuate the shutter mechanism.

2,165,402
PHOTOGRAPHIC CAMERA
Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 11, 1938, Serial No. 184,448
3 Claims. (Cl. 95—44)

1. In a photographic camera having an exposed chamber and an objective therefor, a finder chamber, a lens in the front of the finder chamber adapted to form an image of substantially the same size as the picture to be taken, a mirror between said lens and its image plane for rotating said image plane through ninety degrees, whereby

the view finder image is normally horizontal, a range finder including a beam accepting and a beam combining system for forming in said image plane adjacent images of a portion of the field as



seen from two spaced points, and a field lens positioned in said image plane, whereby the finder image and said range finder images may be viewed simultaneously.

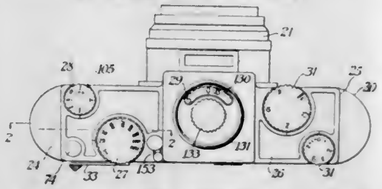
2,165,403

CONTROL MECHANISM FOR FOCAL PLANE SHUTTERS

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Original application November 13, 1937, Serial No. 174,443. Divided and this application July 20, 1938, Serial No. 220,304

14 Claims. (Cl. 95—57)



1. In a focal plane shutter for cameras the combination with a pair of curtains, of separate spring rollers for the curtains, one for each curtain, a pair of pawls, one for holding each curtain against movement, a pair of separately rotatable members on which parts of each curtain are attached, and mechanisms for controlling the release of the pawls comprising a settable dial carried by the shutter, markings on the dial and shutter for indicating exposure, a pivoted lever adjustable by said dial forming a speed selector stop, a second pivoted lever, a cam operated by the first curtain for moving said lever, and a latch trip pivotally attached to the second pivoted lever and having an upturned end to engage the selector, whereby movement of the cam controlled lever may swing said tripping lever until one end strikes the selector whereby the opposite end may be moved about the pivot to trip the pawl releasing the second curtain and an exposure may be made.

2,165,404

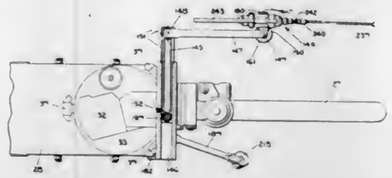
MINING MACHINE

Lewis E. Mitchell, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application May 26, 1933, Serial No. 673,067

37 Claims. (Cl. 262—28)

1. In a mining machine, the combination with supporting framework, of a kerf-cutter mounted thereon for adjustment relative thereto in relatively high and relatively low planes, a drilling unit, mechanism adapted to mount said drilling unit on either the upper or lower front end of said framework to occupy positions in relatively high



positions in advance of said framework when said kerf-cutter is in relatively low position and in relatively low positions when said kerf-cutter is in relatively high position, and means for operating said kerf-cutter while said drilling unit operates.

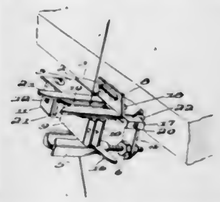
2,165,405

THREAD CLEANER

Willard T. Munson, Dunmore, Pa., assignor to Collins Supply & Equipment Company, Scranton, Pa., a copartnership composed of Henry E. Collins and Albert B. Collins

Application December 24, 1936, Serial No. 117,670

2 Claims. (Cl. 28—70)



1. The combination of a frame having an offset portion to form a supporting plate, one edge of the plate having a stop formed thereon, a head pivoted to the offset portion and having a stop adjacent to the pivot in position to engage the stop on the plate, whereby to limit the pivotal movement of the head, blades removably supported in the head, an arm extending laterally from the lower end of the frame, a guide supported on the arm, a second head pivotally supported on the frame and provided with a pair of guides which extend at an angle to the blades held in the first-mentioned head, blades carried by the head having the guides, means for detachably securing said blades in the head, the head having the pair of guides having lugs at one end against which the blades are adapted to rest, said lugs in position with respect to the arm on the frame to form limiting stops thereagainst to limit the pivotal movements of the head.

2,165,406

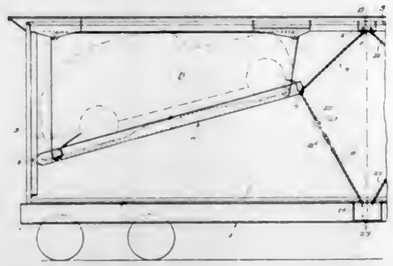
DECK SUPPORTING DEVICE

William H. Mussey, Chicago, Ill.

Application June 6, 1938, Serial No. 211,993

15 Claims. (Cl. 105—368)

1. Means for supporting an end of a vehicle loading deck in a freight car including a deck having in said end portion an elongated slot, a flexible member having non-slip engagement in said slot one end of said flexible member being anchored adjacent the roof of the car and the



opposite end of the flexible member being anchored adjacent the floor of the car.

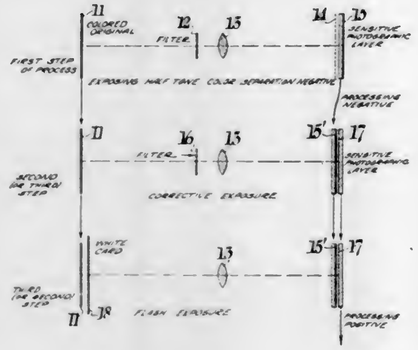
2,165,407

COLOR CORRECTION

Alexander Murray, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 23, 1937, Serial No. 138,616

6 Claims. (Cl. 95—2)



1. In a photo-mechanical process for the reproduction of a multi-colored original, the method of making a corrected color printer which comprises making a color separation negative and making a positive therefrom by exposing a sensitive photographic layer to two separate exposures, one in printing relation to the negative uniformly illuminated and the other in printing relation to the negative illuminated by a color separation positive image of the original, said last mentioned color being a correcting color and different from that corresponding to the negative.

2,165,408

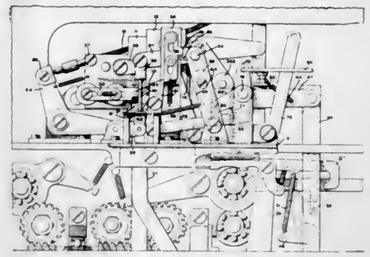
TABULATING MACHINE

Edward Rowland Myers, Ottawa, Ontario, Canada, assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware

Application December 12, 1935, Serial No. 54,010

10 Claims. (Cl. 235—61.7)

4. In a record controlled machine, the combination of a drive mechanism, a group control mechanism, means operable under control of the group control mechanism to disable the drive mechanism, a counting mechanism operated during each machine cycle, and means controlled by the counting mechanism to render the group



control mechanism ineffective to control the disabling means after a predetermined number of cycles.

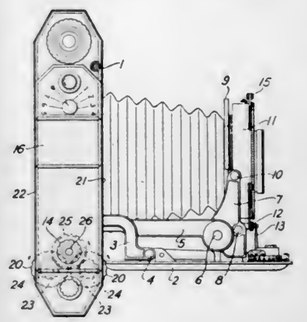
2,165,409

FOCUSING MECHANISM FOR CAMERAS

August Nagel, Stuttgart, Germany, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 24, 1937, Serial No. 181,494

4 Claims. (Cl. 95—45)



1. In a folding camera the combination with a camera body including front, back, side and end walls, of a front carrying an objective foldably and movably carried with respect to the camera body, said body including slots on opposite sides of a side wall of the camera, knurled wheels extending through said slots, gears carried by said wheels, a shaft carrying a gear meshing with the other two gears, and connections between said shaft and said objective for focusing the objective through movement of the wheels.

2,165,410

BLOWOUT PREVENTER

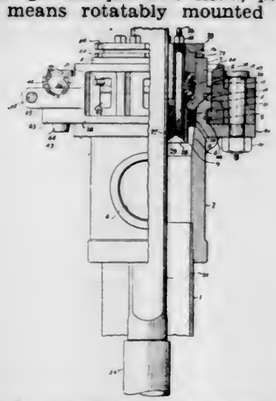
Arthur J. Penick and Kirby T. Penick, Houston, Tex.

Application May 24, 1937, Serial No. 144,451

4 Claims. (Cl. 255—1)

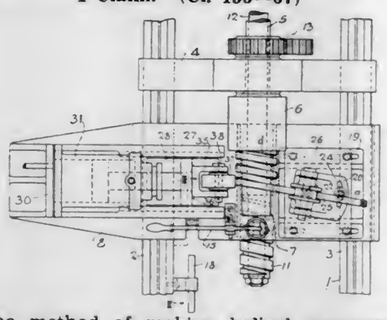
1. In a blowout preventer a pressure head comprising an outer jacket shaped to fit a casing head seat and having a depending sleeve, packing around the sleeve to form a seal with the sleeve and with the casing head in which the pressure head is seated, packing within said sleeve adapted to form a seal with the sleeve and with a

pipe through the pressure head, packing supporting means rotatably mounted within the



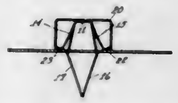
jacket and supporting the last mentioned packing.

2,165,411
METHOD OF MAKING HELICAL SPRINGS
Harry S. Peyton, Chicago Heights, Ill., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application August 9, 1938, Serial No. 223,791
1 Claim. (Cl. 153—67)



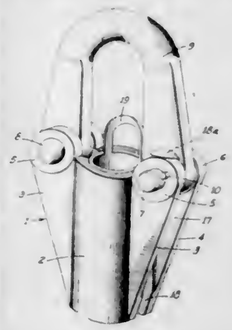
The method of making helical compression springs having a plurality of spaced convolutions of polygonal cross section, each convolution having its inner face of a width no greater than the depth of the convolution in a radial direction thereof, which consists in securing, to a rotatable mandrel, an end of a bar for making such a spring, said bar being of a cross section similar to said convolution cross section; gradually feeding said bar to said rotating mandrel with the face of the fed portion of said bar, providing the inner face of the spring to be formed, engaging said mandrel; simultaneously with said feeding of said bar, moving the unfed portion thereof in a direction axially of said mandrel away from said secured end and at a speed relative to the speed of said rotation whereby said spaced convolutions are produced on said mandrel; and simultaneously with said axial movement of said bar, applying a yielding pressure from a rigid member upon each convolution individually, progressively as it is being formed upon said mandrel, said pressure forcing said convolution, as it is being formed, against said mandrel, said pressure being of sufficient magnitude to force said convolution in complete contact with said mandrel at its engaging face therewith and with said rigid member at its engaging face therewith, thereby preventing tilting of said convolutions upon said mandrel.

2,165,412
FASTENER
Bion C. Place, Detroit, Mich., assignor of one-half to George E. Gagnier, Detroit, Mich.
Application March 21, 1936, Serial No. 70,119
3 Claims. (Cl. 24—213)



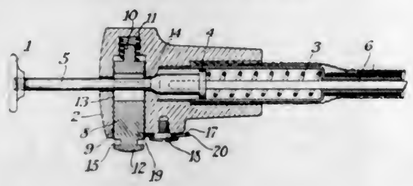
3. A spring stud fastener constructed of sheet metal for a hollow molding, comprising a head consisting of a body constructed in elongated form to contact along a substantial portion of the length of a wall of said molding, a pair of arms extending from each of the longer sides of said body adjacent the corners thereof, said arms each having a portion adjacent the end thereof disposed in outwardly extending acute angular relationship thereto to provide flexible ends movable toward and from the plane of said body and toward and from a plane bisecting said body lengthwise, the end of said arms being curved, and a pair of outwardly bowed legs depending from said body and extending substantially beyond said arms, said legs being disposed directly opposite each other at their ends remote from said body and in close proximity so as to contact when the legs are sprung in a perforation or socket.

2,165,413
CABLE END LINK
James P. Ratigan, Los Angeles, Calif.
Application January 21, 1939, Serial No. 252,205
4 Claims. (Cl. 294—78)



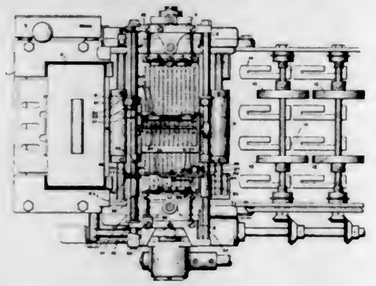
1. In a cable end link for attaching the end of a cable to an object, the combination of: a cable end ferrule permanently secured to said cable end; a socket member defining a ferrule receiving socket extending longitudinally thereof and having one end open to permit passage of said ferrule into and out of said socket; a ball member comprising a U shaped member having each of its arms disposed on opposite sides of the open end of said socket; and means pivotally securing one of said arms to one side of said socket to permit movement of said ball member about an axis extending transversely of a line joining the ends of said arms from a normal position extending across the open end of said socket to prevent passage of said ferrule into and out of said socket to an abnormal position disposed out of alignment with said socket to permit insertion or removal of said ferrule from said socket.

2,165,414
CABLE RELEASE FOR TIME EXPOSURES
William A. Riddell, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application December 8, 1937, Serial No. 178,769
3 Claims. (Cl. 74—502)



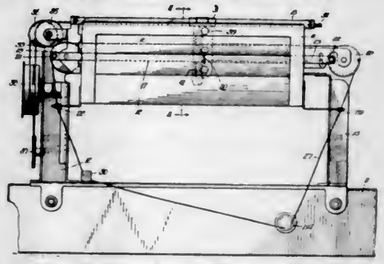
1. In a cable release, the combination with a pair of finger grips, a tubular member carried by one grip and a plunger carried by the other, a spring for holding the finger grips separated, a friction latch for the plunger carried by one finger grip and comprising a plug having an aperture therethrough encircling the plunger, said aperture being elongated and having V-shaped walls adapted to frictionally engage the plunger, a spring for holding the V-shaped walls in contact with the plunger of sufficient strength to overcome the thrust of the plunger spring upon the plunger, but of insufficient strength to materially retard the manual operation of the plunger, said plug extending laterally of the finger grip supporting the friction latch for releasing the friction latch.

2,165,415
SORTER
Arthur G. Rindfleisch, Brooklyn, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application August 12, 1937, Serial No 158,666
2 Claims. (Cl. 209—110)



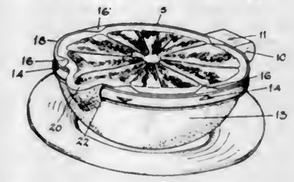
2. In a machine of the class described, the combination with main operating mechanism for said machine, of a plurality of card receptacles; a plurality of card-gates, one for each receptacle; means for conveying cards to said receptacles, a main sensing device, an auxiliary sensing device for controlling the operation of said main sensing device, a plurality of removable translator wires operable by said main sensing device, a plurality of locking pins depressible by said translator wires, a locking member for locking one or another of said pins depressed and for simultaneously releasing any previously depressed pins, means for manually disabling said locking member, and means operable by said pins for opening and locking said card-gates.

2,165,416
DIAL MECHANISM
Simon D. Rydstedt, Chicago, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application May 16, 1938, Serial No. 208,154
10 Claims. (Cl. 116—124.1)



1. Radio dial mechanism comprising a plurality of spaced index scales, a plurality of indicators rotatably mounted adjacent the scales, and means for rotating an indicator into and out of position above a scale and in indicating relationship therewith.

2,165,417
FRUIT GIRTH
Cale J. Schneider, Toledo, Ohio
Application January 27, 1938, Serial No. 187,279
2 Claims. (Cl. 294—33)



1. A fruit girth having a handle part, a pair of relatively rigid arcuate arms connected to the handle part, each arm extending in an opposite direction and in a plane common to each other to define substantially a hemicycle therebetween, each of said arms having an arcuate end portion, the end portions conjointly defining substantially a second hemicycle therebetween whose axis is spaced from the axis of the first-named hemicycle and proximate to the handle connection, each end portion terminating a distance spaced from the terminal of the other end portion, a plurality of triangularly shaped teeth connected to and extending inwardly from each of said arms, each of said teeth disposed on its respective arm at spaced points on a line common to the plane of the teeth and parallel to the plane through which the arm arcs, a plurality of blade-like clips connected to and extending inwardly from each of said arms, each of said clips disposed on its respective arm at spaced points on a straight line common to the plane of the clips and extending along said arm parallel to said first-named line, each of said arms having portions adjacent said handle connection permitting yielding movement of each arm with respect to the handle connection and the other arm whereby a substantially hemispherical portion of a fruit may be yieldably embraced by said arms and be impaled conjointly by said teeth and clips to connect the handle to the fruit portion for ease of manipulation thereof and a part of said fruit will be urged outwardly with respect to said second-named hemicycle and between said end por-

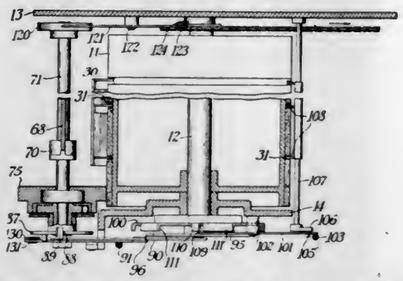
tion terminals to cooperate in connecting the handle to said fruit portion and to form a pouring spout for the contained liquids within the fruit.

2,165,418

REVERSING ARRANGEMENT FOR DOCUMENT REPRODUCING MACHINES

Alvin E. Schubert, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 4, 1937, Serial No. 157,361
20 Claims. (Cl. 271—3)



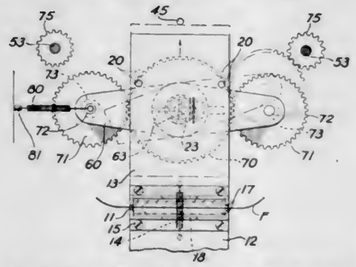
1. In a document handling device, the combination with a rotating drum for advancing a document through the photographic field of a camera so as to photograph one side of said document, of means for reversing said document so that the other side thereof may be advanced by said drum through said field and photographed by said camera, means movable radially of said drum for guiding said document to said reversing means, and means for controlling said movable means from said drum and in timed relation to the rotation thereof.

2,165,419

FILM WINDING AND GATE OPENING MECHANISM

Alvin E. Schubert, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application October 7, 1937, Serial No. 167,749
4 Claims. (Cl. 88—28)



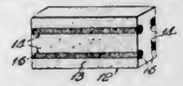
4. A device for projecting enlarged images comprising, in combination, a film gate, a pair of film spindles positioned on opposite sides of said gate and adapted to support reels on which a film strip may be wound, a shaft, manual means for selectively rotating said shaft in opposite direction, a radially extending arm loosely mounted on said shaft, a friction clutch for connecting said arm to said shaft so that said arm may be moved by the rotation of said shaft, means for limiting the movement of said arm, a gear mounted on said shaft, a pair of gears carried by the opposite ends of said arm and meshing with said first mentioned gear so as to be driven thereby, one of said pair of gears being movable into engagement with a cooperating gear on one of said spindles when said shaft is rotated in one direction to operatively connect one of said spindles to said shaft, and the other of said pair of gears being movable into engagement with a cooperating gear on the other of said spindles when said shaft is rotated in the opposite direction to operatively connect said other spindle to said shaft.

2,165,420

TOOTH CLEANING ELEMENT

Charles Henry Seifert, Hempstead, N. Y.

Application July 29, 1937, Serial No. 156,413
1 Claim. (Cl. 15—210)



A tooth-cleaning element to be used once and thrown away, said element comprising an elongated substantially rectangular sponge rubber block having a groove in one side, and a dentifrice insert filling said groove, one side of said dentifrice insert being exposed at said one side of said block, the relative areas of said side of said block and said exposed side of said dentifrice insert being such that a brushing surface is provided formed partly by said side of said block and partly by said side of said dentifrice insert, the cells and webs of said block being exposed at all portions of said brushing surface formed by the aforesaid side of said block, said groove being cross-sectionally shaped to retain said dentifrice insert therein, some of the cells and webs of the sponge rubber block being exposed at the walls of said groove to allow effective locking of the insert to the block.

2,165,421

HARDENING PHOTOGRAPHIC EMULSIONS

Samuel E. Sheppard and Robert C. Houck, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application September 25, 1936, Serial No. 102,547
13 Claims. (Cl. 95—7)

1. The method of producing a hardened photographic gelatin having slight after-hardening tendency which comprises uniformly mixing therewith prior to photographic processing an aliphatic aldehyde hardening agent and a homocylic carbon compound containing at least one nuclear hydroxy substituent group.

13. A photographic element comprising a transparent support and a gelatin emulsion thereon, said emulsion containing as hardening means 0.05% to 0.1% of formaldehyde and 0.1% to 0.5% of resorcylic aldehyde.

2,165,422

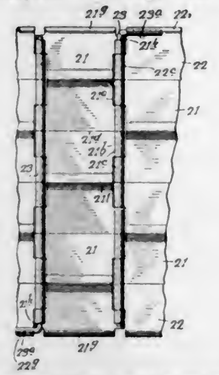
CONVEYER BELT

Godfrey Stanius, Cicero, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois

Application December 24, 1937, Serial No. 181,530
6 Claims. (Cl. 198—189)

1. A conveyer belt comprising a plurality of metal plates arranged in parallel transverse rows, and pivot pins each connecting the plates of two adjacent rows, said plates having parts adapted

to interlock with portions of said pins and having other parts adapted to wedge said portions of



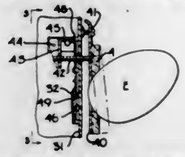
said pins into interlocking engagement with said first named parts.

2,165,423

EGG GRADING DEVICE

James A. Templeman, near Seattle, Wash., assignor to Grade-O-Lite, Inc., Seattle, Wash., a corporation of Washington

Application February 27, 1936, Serial No. 66,132
7 Claims. (Cl. 88—14.92)



4. An egg candling device comprising a casing having an aperture, a lamp within said casing emitting light through said aperture to illuminate an egg placed in front thereof, a member mounted on the casing and formed to engage and position an egg, said member being guided on the casing for movement between two positions, in each of which the egg is in candling position, stop means terminating the movement of said member in each such position, a translucent colored screen mounted upon the casing for movement between two positions, in one such position being interposed between the lamp and an egg which engages said positioning member, to modify the light transmitted through the egg, and in the other such position being clear of the candling light beam, and means operatively connecting said member and said screen, to move the latter into one position by movement of the member into one of its positions, and to move the screen into its other position by movement of the member to its other position.

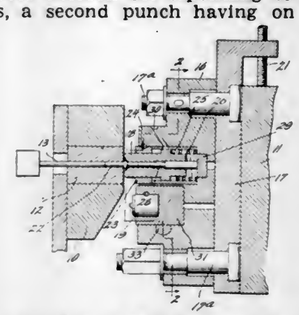
2,165,424

APPARATUS FOR MAKING SCREW BLANKS

Joseph J. Tomalis, Providence, R. I., assignor to American Screw Company, Providence, R. I., a corporation of Rhode Island

Application January 14, 1938, Serial No. 185,036
3 Claims. (Cl. 10—7)

1. Apparatus of the kind described comprising, in combination, means for holding a blank, a first punch having a recess on the end thereof and a plurality of depressions extending radially thereof, said recess and depressions being formed within the confines of the end of the punch, means for causing said first punch to engage said blank to form thereon a partially finished head having raised lobes thereon corresponding to said depressions, a second punch having on the end



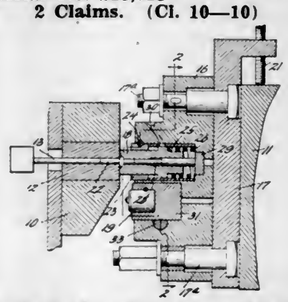
thereof a plurality of radial wings corresponding to said depressions of the first punch, and means for causing said second punch to engage said partially finished head on the blank and said wings to penetrate said raised lobes formed by the first punch.

2,165,425

METHOD OF MAKING RECESSED HEAD SCREWS

Joseph J. Tomalis, Providence, R. I., assignor to American Screw Company, Providence, R. I., a corporation of Rhode Island

Original application January 14, 1938, Serial No. 185,036. Divided and this application June 10, 1938, Serial No. 213,013
2 Claims. (Cl. 10—10)



2. A method of making screw blanks of the type having a head provided with a recess therein having a central portion and a plurality of grooves extending radially therefrom, which method comprises forming a partially completed head on the blank with a plurality of lobes or enlargements extending radially on the top thereof, and then subjecting the blank to the action of a punch having a central portion and a plurality of radial wings arranged to correspond with said lobes on the blank and forcing said wings of the punch into said lobes on the partially completed head to form the recess therein.

2,165,426

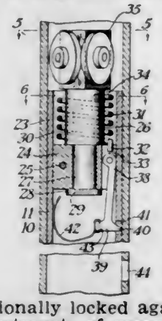
TELESCOPING TRIPOD LEG

Fordyce Tuttle and Joseph Stiles Beggs, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application July 9, 1937, Serial No. 152,790
10 Claims. (Cl. 248—191)

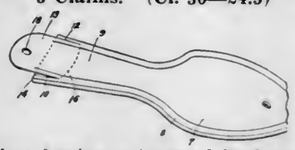
9. In a telescoping tripod leg the combination

with a tubular leg section the inside surface of which is provided with a plurality of cam-grooves each definitely spaced from one another and extending throughout the length of the leg section, a second tubular leg section rotatably and slidably mounted within said first leg section, a plurality of ribs spaced around the periphery of said second leg section and each extending throughout the length thereof, each of said ribs adapted when the leg sections are in one position of relative rotation to extend into the low points of one of said cam-grooves whereby the leg sections can be extended longitudinally relative to one another, and each of said ribs adapted when the leg sections are in another position of relative rotation to frictionally engage the high point of one of said cam-grooves whereby the leg sec-



tions are frictionally locked against relative longitudinal adjustment, of means connected with one of said leg sections and acting on the other and normally tending to rotate the leg sections relative to one another into a position of relative rotation wherein the cam-grooves and the ribs on the two sections are in frictional engagement to lock the sections against relative longitudinal adjustment, and means for preventing the accidental separation of said tubular leg sections, and including a spring pressed member fixed to the interior of the inside leg section to extend through an aperture in the wall of said leg section, and adapted to snap into an aperture in the wall of the outside tubular leg section, when the two leg sections have reached a given point in their relative longitudinal extension.

2,165,427
SHOE SOLE AND HEEL CONSTRUCTION
Anthony Vigorith, Ernst J. Story, and John M. Delaney, Cincinnati, Ohio, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 28, 1936, Serial No. 117,726
3 Claims. (Cl. 36—24.5)

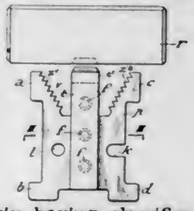


3. A shoe having a tongued heel and a short leather outsole interengaged therewith, the rear end of the outsole being split to provide a pocket in which the tongue of the heel is positioned, the end of the sole on the grain side of the split being thick and engaging the breast portion of the heel and on the flesh side of the split being thin, projecting back upon the attaching face of the heel, and being shorter and narrower than said attaching face whereby it is entirely concealed by the heel.

2,165,428
CATALYSTS FOR PRODUCING ALIPHATIC ACIDS AND PROCESS FOR PRODUCING THEM
George P. Waugh, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application September 22, 1936, Serial No. 101,988
6 Claims. (Cl. 23—234)

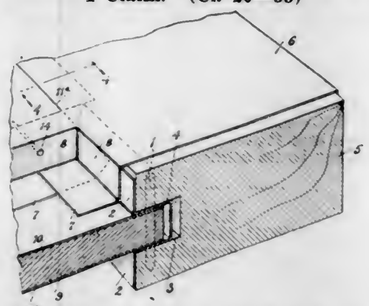
1. A process for the preparation of an acetic acid catalyst which comprises preparing a mixture containing small amounts of oxides of zinc and manganese, larger amounts of oxides of copper and pasty binder, and oxidizing and reducing the mixture.

2,165,429
TYPE
Fritz Julius Weber, Winterthur, Switzerland, assignor to the firm Schweizerische Lokomotiv- und Maschinenfabrik, Winterthur, Switzerland
Application July 3, 1937, Serial No. 151,919
In Germany July 10, 1936
3 Claims. (Cl. 101—398)



1. In a patrix having classifier indentations, a patrix body having a V-shaped aperture provided with classifier indentations on both shanks thereof, a type cast onto both sides of said patrix body, an extension provided on said type carrying the character image and being symmetrically disposed between said two shanks, and said patrix body being provided with a longitudinally extending recess for so receiving said type that said character image on said extension is situated beyond said classifier indentations.

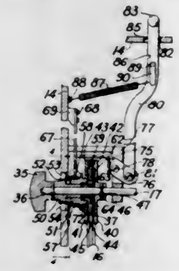
2,165,430
METAL COVERED DOOR
Emanuel Weisfeld, New York, N. Y.
Application April 16, 1937, Serial No. 137,222
1 Claim. (Cl. 20—35)



A metal covered door provided with stiles and rails secured together to form a frame, a sheet metal covering extending over and enclosing the stiles and rails, said stiles and rails each having a longitudinal groove formed in their inner edge, a channelled lining strip fitted into each of said

grooves, said strip having laterally extending flanges extending over the face of the inner edges of the stile and rail in which it is located, a panel having its edges fitted into said strips, pins extending through the panel near its edges and also through the channelled strips to hold the strips and panel edges within the grooves, the sheet metal covering having a flanged inner edge bent over and covering the laterally extending flanges on the channelled strips and also enclosing and covering the pins said flanged inner edge overlying the opposite faces of the panel adjacent to its point of entry into the channelled strip.

2,165,431
STILL MECHANISM FOR MOTION PICTURE PROJECTORS
Howard C. Wellman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 28, 1937, Serial No. 171,513
3 Claims. (Cl. 74—230.24)

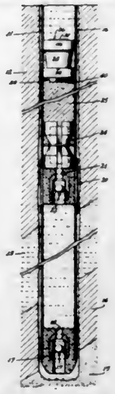


1. In a motion picture projector the combination, with a shaft, an electric motor, a drive belt connected to said motor, of a split drive pulley mounted on and rotatable with said shaft, said pulley comprising a pair of flanged members arranged to engage said belt to operatively connect the latter to said shaft, one of said members being fixed to said shaft and the other of said members being slidable on said shaft, a pair of spring members engaging said movable member and tending to move the latter toward said stationary member to connect said members to said belt, and means for engaging one of said spring members for moving said movable member away from said stationary member to disconnect said members from said belt.

2,165,432
OILS OF HIGH VISCOSITY INDEX AND PROCESS OF MAKING THE SAME
James M. Whiteley, Roselle, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 23, 1935, Serial No. 37,529
4 Claims. (Cl. 196—151)

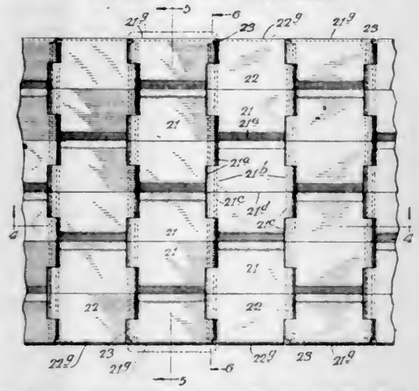
1. The process of preparing residual petroleum lubricating oil of high viscosity and high viscosity index from crude oil residual stocks, comprising distilling therefrom under mild cracking conditions, the lower viscosity oil fractions and the cracked fractions produced during the distillation until the residual oil, when freed from asphalt and wax, reaches a viscosity considerably in excess of 150 seconds Saybolt at 210° F., and separating waxy and asphaltic constituents from the undistilled residue.

2,165,433
TOP CEMENTING PLUG
Newton W. Wickersham, Whittier, Calif., assignor to Perkins Cementing, Inc., a corporation of California
Application August 2, 1938, Serial No. 222,614
7 Claims. (Cl. 166—1)



1. A cementing plug of the type described comprising: a hollow body member of lightweight metal, said body member having a threaded stud at its upper end and a threaded stud at its lower end; a cover plate over the upper end of said body member and on said upper stud; an upper cup mounted on said upper stud; a lower cup mounted on said lower stud; a top plate threadably mounted on said upper stud and adapted to act as securing means for said upper cup; and a bottom plate threadably mounted on said lower stud and adapted to act as securing means for said lower cup.

2,165,434
CONVEYER BELT
Allen B. Wilson, Evanston, Ill., assignor to Acme Steel Company, Chicago, Ill., a corporation of Illinois
Application December 24, 1937, Serial No. 181,477
6 Claims. (Cl. 198—189)



1. A conveyer belt comprising a plurality of metal plates arranged in parallel transverse rows, and pivot pins each connecting two adjacent rows, some of said plates having integral grooved flanges adapted to be bent into positions where said grooves are engaged by parts carried by the ends of said pins.

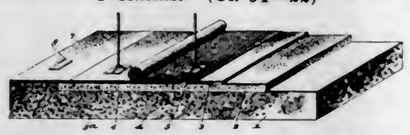
2,165,435
PROCESS FOR MELTING, CASTING, AND PURIFYING SUCROSE OCTANITRATE
Joseph A. Wyler, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.
No Drawing. Application October 8, 1937, Serial No. 168,038
3 Claims. (Cl. 260—235)

1. The process of melting and purifying sucrose octanitrate which comprises melting the sucrose octanitrate in a monohydric aliphatic alcohol containing not more than six carbon atoms to the molecule and in amount sufficient to form an alcoholic extract of impurities originally present in the octanitrate, allowing the molten octanitrate to separate as a layer below the alcoholic extract, and then drawing off the said layer.

2,165,436
CUTTING AND COOLING LUBRICANT
John C. Zimmer, Hillside, and John B. Holtzclaw, Roselle, N. J., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application August 19, 1936, Serial No. 96,812
4 Claims. (Cl. 87—9)

1. An alkaline oleaginous composition suitable for emulsification with water to form a cutting and cooling composition comprising about 50 to about 90% of a mineral lubricating oil, about 1 to about 20% of a sulfurized fatty oil, about ½ to about 3% of a glycol ether, about ½ to about 3% of water, about 1 to about 30% of mahogany soaps, about ½ to about 10% of rosin and containing, also, about 0.6% of a strong alkali.

2,165,437
FLOOR AND METHOD OF MAKING THE SAME
Robert Adam, St. Louis, Mo.
Application March 12, 1937, Serial No. 130,596
4 Claims. (Cl. 94—22)

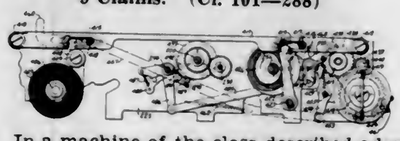


1. The herein described method consisting of laying a concrete foundation slab, spreading an intermediate topping of wet concrete mixture over said foundation slab, spreading an upper topping of dry concrete mixture over the intermediate topping, covering the upper topping with a flexible porous and absorbent covering and maintaining said covering in place for a predetermined period, and tamping upon said covering to induce the extraction of water by percussion from the intermediate topping and promote its upward penetration into the upper topping.

2,165,438
EXTRACTION OF SUBSTANCES FROM SOLUTIONS
John William Allquist, Rome, Ga., assignor to Tubize Chatillon Corporation, New York, N. Y., a corporation of Delaware
Application July 25, 1936, Serial No. 92,528
3 Claims. (Cl. 260—541)

1. Process for extracting a substance from its first solution in a first solvent which comprises maintaining a column of liquid containing one or more other solvents for the substance which are at least partially immiscible with the first solvent, maintaining a relatively high selectivity and low gleanability for the substance in one zone of the column of liquid, maintaining a gradually decreasing selectivity and a gradually increasing gleanability for the substance in successive cross sections of the column toward another zone therein, maintaining a relatively high gleanability and a relatively low selectivity for the substance in said other zone of the column of liquid, said zone of high selectivity and said zone of high gleanability being maintained by maintaining a difference in the temperature of the immiscible solvent in the two zones, passing the substance to be extracted accompanied by the first solvent through the column of liquid and in contact therewith from one zone to the other, withdrawing the resulting depleted first solvent from the column of liquid, and withdrawing from the column of liquid the resulting new solution of the substance in the immiscible solvent.

2,165,439
CASH REGISTER
Charles H. Arnold, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application June 16, 1934, Serial No. 730,880. Divided and this application July 10, 1936, Serial No. 89,880
9 Claims. (Cl. 101—288)



1. In a machine of the class described adapted to print records on an audit strip, the combination of means to move the strip to and from printing position; means to operate the moving means; means to feed the strip; and means cooperating with the feeding means and the operating means and controlled by the operating means to render the feeding means operable to feed the strip when the feeding means is operated.

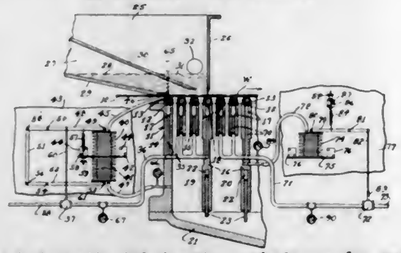
2,165,440
GAS MAPPING
George S. Bays, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware
No Drawing. Application July 22, 1938, Serial No. 220,711
5 Claims. (Cl. 23—232)

1. A method of soil gas surveying comprising determining hydrocarbon contents of soil gas samples from various soils, and determining the relative sorptive abilities of said soils to provide a basis for more accurate correlation of data obtained by the determination of the hydrocarbon contents of said various soils.

2,165,441
FREE-CUTTING ALUMINUM ALLOYS
Adolf Beck and Hans Bohner, Bitterfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application June 19, 1937, Serial No. 149,207. In Germany June 25, 1936
5 Claims. (Cl. 148—21.1)

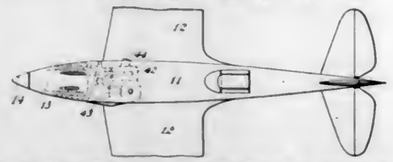
1. Process of improving the properties in respect of working with cutting tools, of aluminum base alloys containing besides at least about 3% of magnesium a total quantity of from about 1 to about 5% of at least one metal forming hard intermetallic compounds with aluminum and adapted to react peritectically with the aluminum-magnesium compound formed in such alloys, which process comprises subjecting such alloy in the solid state to a heat-treatment within the temperature range extending from about 300° C. upwards, until disintegration of the primary crystals of the hard intermetallic compounds has taken place.

2,165,442
AUTOMATIC LUBRICANT OVERBALANCE FOR TABLE ROLLS
Earl E. Berry, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application September 21, 1936, Serial No. 101,707
12 Claims. (Cl. 92—44)



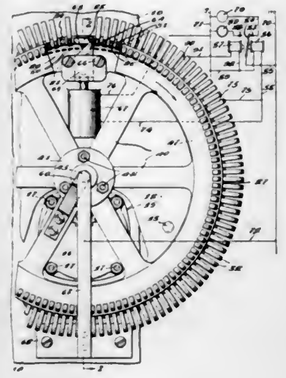
1. Automatic lubricant overbalance for paper machine table rollers which are loosely mounted in bearing supports along their lengths under the forming wire of a paper machine comprising a liquid conduit for supplying a liquid between the rollers and their bearing supports, a pressure reducing valve in said conduit, means for setting said valve to provide a constant hydraulic pressure of liquid in the bearing supports, and means responsive to changes in load on the rollers for actuating said valve to increase or decrease the hydraulic pressure in the bearing supports when the load on the rollers is increased or decreased, thereby maintaining the rollers hydraulically overbalanced in their bearing supports to a predetermined degree.

2,165,443
AIRCRAFT POWER PLANT
Donovan R. Berlin, Eggertsville, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application April 16, 1937, Serial No. 137,194
4 Claims. (Cl. 60—13)



1. In aircraft, in combination, a body having an internal combustion power plant within its forward end, a radiator within the body rearward of the power plant, a turbo supercharger within the body having its turbine discharging laterally from the body and having the discharge end of its supercharger feeding said radiator, ducts leading through the body surface for establishing cooling airflow to said radiator, and ducts directing the cooling airflow leaving said radiator over and around the surface of said turbine, and through the body surface.

2,165,444
VARIABLE TIMING DEVICE
Carl H. Bissell, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application April 8, 1937, Serial No. 135,821
17 Claims. (Cl. 200—27)



3. A timing device including an annular series of stationary contacts, a rotatable disk, means operable to rotate said disk, a plurality of contacts carried by said disk and being arranged to normally travel in a path out of engagement with said stationary contacts and being individually shiftable to successively energize said stationary contacts during one cycle of said disk and being operable to return to normal position at the end of said cycle, and means operable to shift selected ones of said movable contacts during each cycle of said disk.

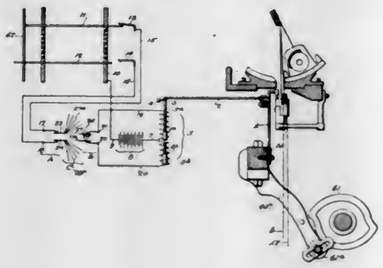
2,165,445
PREPARATION OF PHENYL METHYL PYRAZYL PHENYL METHYL PYRAZOLONE
Albert B. Boese, Jr., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application August 27, 1936, Serial No. 98,203
10 Claims. (Cl. 260—310)

1. Process of producing phenyl methyl pyrazyl phenyl methyl pyrazolone, which comprises reacting phenylhydrazine, dehydracetic acid and water, in the presence of an organic acid and of a volatile solvent for the reactants, both the said solvent and organic acid being inert toward dehydracetic acid, the phenylhydrazine and dehydracetic acid being present in the proportion of at least two mols of the former to each mol of the latter, and recovering the phenyl methyl pyrazyl phenyl methyl pyrazolone thus produced.

2,165,446
ELECTRIC JACQUARD MECHANISM
Joseph H. Bromley, Jr., Philadelphia, Pa.
Application May 21, 1938, Serial No. 209,341
11 Claims. (Cl. 96—20)

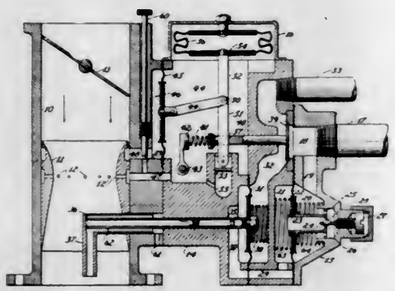
1. In a jacquard controlled machine comprising a relatively large number of elements to be controlled and a relatively smaller number of jacquard actuated controlling elements completely disconnected from all said large number

of elements, an interchangeable division unit interposed between said controlled and said control elements comprising means for operatively



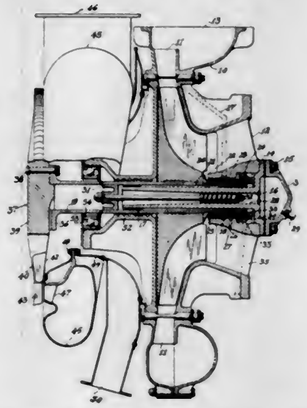
connecting each of said control elements to each of a predetermined number of said controlled elements.

2,165,447
PRESSURE METERING CARBURETOR
Kenneth A. Browne, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application August 6, 1936, Serial No. 94,534
15 Claims. (Cl. 261—69)



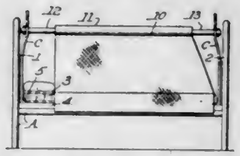
3. A pressure metering carburetor for operation in atmosphere of variable density comprising a barrel having a venturi, a housing having therein a flexible diaphragm defining within said housing separate chambers connected respectively to the Venturi throat and to the ambient air, wherefore force on the diaphragm is proportional to the Venturi pressure drop, i. e., the function V_a^2D wherein V_a is air velocity and D is air density, a sealed hollow element in one of said chambers having a wall responsive in its movement effect to D or air density, multiplying linkage connected to said diaphragm and said wall whereby the linkage imposes a force proportional to $V_a^2D^2$, a liquid fuel metering orifice, a conduit connecting the discharge side thereof to the carburetor barrel, a source of fuel under pressure connected with the inlet side of said orifice, a fuel pressure control valve actuated by the linkage and responsive in its operation to the force imposed thereby to control the fuel pressure on the inlet side of said fuel orifice in direct proportion to $V_a^2D^2$ as air mass flow through the barrel increases and decreases, and means in said discharge conduit to isolate the discharge side of said orifice from the effect of barrel air pressure.

2,165,448
TURBOSUPERCHARGER
Kenneth A. Browne, Ridgewood, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York
Application February 19, 1937, Serial No. 126,669
4 Claims. (Cl. 230—116)



1. A mounting of low inherent vibration frequency for a variable speed shaft, whereby resonance between the shaft and mounting may be eliminated except at low speeds of the shaft, comprising a support, and a non-rotating arbor mounted as a cantilever thereon, said arbor being relatively resilient due to its cantilever support, said shaft being hollow and journalled upon said arbor, and a guide bearing in said support, normally out of engagement with said shaft but subject to engagement thereby at such times as said shaft may be subject to high amplitude low frequency vibration.

2,165,449
TREATMENT TENT
George H. Budd, Los Angeles, Calif.
Application January 13, 1936, Serial No. 58,849
1 Claim. (Cl. 128—396)

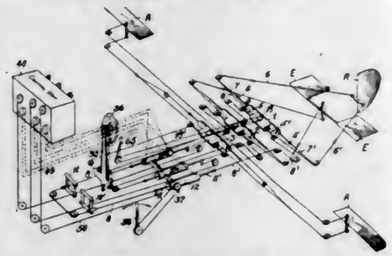


In a device of the class described, the combination of a longitudinal flat body, having a tubular conduit along the top side thereof; pipes slid into each end of said body by which it is adjustably supported horizontally; head and foot support members formed with the top of each member carrying several openings through which the pipes may be inserted for vertical adjustment of the flat body; ultra violet ray lamps mounted on the under side of said body spaced from each end and from each other; means to introduce electrical energy to said globes; and a tent-like covering for said longitudinal body said covering having sufficient length and width to enclose a bed or like structure and having the inner surface of the covering made of reflecting material to concentrate the rays of light from the globes onto the body of the user.

2,165,450
PRODUCTION OF COLORLESS LIQUID ORGANIC ESTERS
Alfred K. Burke, Flint, Mich., and Thomas J. McKeon, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 19, 1934, Serial No. 744,666
4 Claims. (Cl. 260—488)

3. The process of treating liquid alkyl esters which have been manufactured commercially and which have developed during the manufacture a discoloration which is characterized by being green or yellow and in being carried over with the distillate during rectification, which comprises removing the said discoloration by mixing the liquid ester with an aqueous solution containing about 1 to 15% of an alkali metal hydroxide, the said hydroxide being present in amount of approximately 1 to 1.5% by weight of the discolored ester being treated, agitating the mixture thoroughly, allowing two layers to stratify and withdrawing one of them.

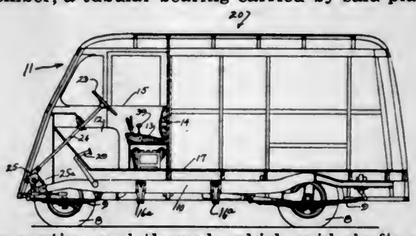
2,165,451
SERVOMOTOR SYSTEM FOR AIRCRAFT
Bert G. Carlson, Bellerose, N. Y., assignor to Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application March 20, 1936, Serial No. 69,757
4 Claims. (Cl. 244—78)



2. In an automatic pilot for large aircraft, a light duty pneumatically controlled automatic pilot including a hydraulic servo motor, a direct hand control, a heavy duty hydraulic servo motor for operating a control surface of said craft and having a control valve, and connections between said first named motor and said valve, and between the hand control and said valve, and between the hand control and said surface to operate the said surface from either said first servo motor or by hand through the heavy duty servo motor, or to operate said surface directly by hand.

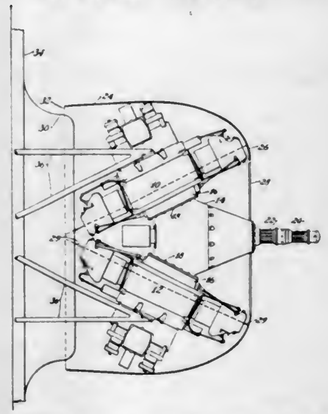
2,165,452
TRUCK
Philip Carlson, Long Hill, Conn., assignor, by direct and mesne assignments, to The Metropolitan Body Company, Bridgeport, Conn., a corporation of Connecticut
Application February 3, 1937, Serial No. 123,771
2 Claims. (Cl. 180—54)

1. In an automobile truck comprising a chassis including side frame members mounting a body and between their forward portions mounting an engine for propelling the truck together with the usual braking and clutch connections at the rear of the engine, brake and clutch pedals disposed at the outer side of one of said frame members, a tubular shaft connected with said brake pedal and extending through said frame member, a shaft extending through said tubular shaft and connected with said clutch pedal, a bracket including a plate-like portion secured to said frame member, a tubular bearing carried by said plate-



like portion and through which said shafts extend, and means at the inner side of said frame member and connecting the inner portions of said shafts with the usual brake and clutch connections.

2,165,453
MULTIPLE ENGINE POWER PLANT
Allan Chilton, Glen Rock, Chester C. De Pew, Bloomfield, and Roland Chilton, Ridgewood, N. J., assignors, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J., a corporation of New York
Application October 27, 1936, Serial No. 107,892
10 Claims. (Cl. 60—97)

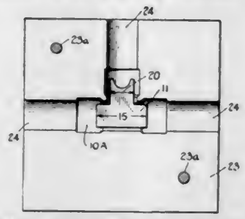


1. A multiplex power unit comprising at least two engines each equipped with a bevel gear, inner and outer propeller shafts, a gear secured to said outer shaft and meshed with one of said engine gears, a pinion free for rotation on the inner shaft and engaging the other said engine gear, and planetary reduction gear means between the said pinion and said inner shaft.

2,165,454
METHOD OF PRODUCING BRANCH FITTINGS
Edward S. Cornell, Jr., Larchmont, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application July 27, 1937, Serial No. 155,884
4 Claims. (Cl. 29—157)

1. The method of producing a lateral branch hollow fitting of cold-wrought metal of predominant copper content, the fitting having predetermined exterior and interior configurations and dimensions thereof, which comprises providing

a polyhedral mass of such metal having an exterior configuration corresponding generally to the desired configuration of the desired fitting but having exterior dimensions less than the exterior dimensions of the desired fitting, a diagonal dimension of such polyhedral mass corresponding substantially to the diametrical dimension of the fitting desired to be produced, positioning such polyhedral mass in a suitable female die having



an aperture of a diameter corresponding substantially to the stated diagonal dimension of such polyhedral mass, subjecting such polyhedral mass in cold state to pressure to cause flow of the metal in outward directions and giving rise to hollow interior formation within the mass and guiding the flow of the metal exteriorly to form the desired exterior configuration of the desired outer dimensions while controlling the flow of the metal to form the desired interior configuration of the desired interior dimensions.

2,165,455
WIRE TIGHTENING AND TWISTING MACHINE
Henry Wilfred Cox, North Melbourne, Victoria, Australia
Application February 19, 1937, Serial No. 126,719
5 Claims. (Cl. 140—93)

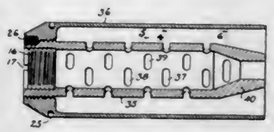
1. In a machine of the class described, wire tightening means comprising two wire gripping devices, a pivotally mounted arm carrying one of said gripping devices, a toggle arranged to swing said arm away from said other gripping device, a pivotally mounted operating lever, a block rotatable by said lever, an operating connection between said block and toggle, and a lug on said lever adapted to return said toggle to inactive position.

2,165,456
WIRE TIGHTENING AND TWISTING MACHINE
Henry Wilfred Cox, North Melbourne, Victoria, Australia
Application February 19, 1937, Serial No. 126,720
In Australia August 22, 1936
5 Claims. (Cl. 140—93)



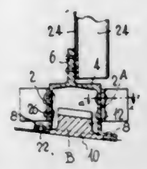
1. In wire tightening mechanism, a swingably mounted arm, a member pivoted between its ends on said arm and having a wire gripper on one side of its pivot and a runway on the other side thereof, a yoke shiftable on said runway, a compensatory spring connected with said yoke, and means for swinging said arm and thereby moving said member against the resistance of gripped wire and said spring.

2,165,457
COMPENSATOR
Richard M. Cutts, Jr., Cape May, N. J.
Application June 23, 1936, Serial No. 86,847
3 Claims. (Cl. 89—14)



1. In a firearm provided with a barrel the combination of a walled member constituting an expansion chamber secured to said barrel to receive the gases of explosion as they emerge from the barrel; means comprising converging wall portions of said chamber to increase the pressure of the expanded gases said wall portions offering a surface resistance to the forwardly moving gases for counteracting recoil of the firearm, said wall portions terminating in a projectile opening of a size to be substantially sealed when the projectile passes therethrough thereby aiding the increase of gas pressure; a plurality of slots in the chamber wall arranged in plural transverse planes, the slots in one plane staggered with respect to the slots of the next adjacent plane, all of said slots to release the expanded gases under pressure to further aid in the counteraction of recoil and to transmit the heat from the burning gases to the body of the chamber wall with the least possibility of fracturing the material of the chamber; and an imperforate cylindrical member freely open at its forward end and extending over said slots in spaced relation to the outer surface of the chamber wall, said member for receiving the released gases under pressure and delaying their dispersion to the atmosphere to insure complete combustion of the powder grains and the concealment of flash.

2,165,458
SPAR CHORD
Edward W. Dart, Lutherville, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application November 14, 1938, Serial No. 240,369
10 Claims. (Cl. 189—37)



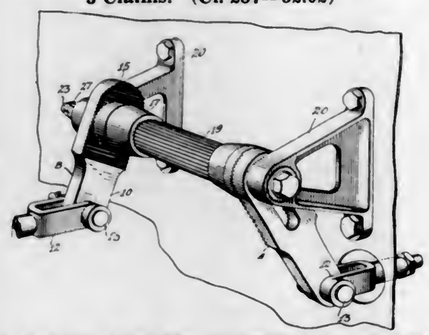
1. A chord member comprising a first longitudinally extending member, and a second longitudinally extending member secured thereto and having a portion thereof varying progressively in area longitudinally of the chord member, said chord member having the same outer outline section throughout its length.

2,165,459
AIRCRAFT STRUCTURE
Alexander P. de Seversky, Northport, N. Y., assignor to Seversky Aircraft Corporation, a corporation of Delaware
Application March 5, 1938, Serial No. 194,098
1 Claim. (Cl. 244—132)



Aircraft structure comprising pre-fabricated M shaped frame members united to form a hollow overall-framework, the top of the M being sprung together to impart a laterally compressive stress thereat, a fabric covering for the framework overall, a rigid, relatively non-resilient stringer member having a shape for fitting into the hollow of the M at the top, over said fabric, but having a wider angle, in cross-section, than the angle of said hollow in the M, to thereby spring said resilient M-member outwardly at the top, self-tapping, headed screws having heads shaped for urging said stringer member into said hollow and securing same in place, and covering-tape over the outside of the said structures.

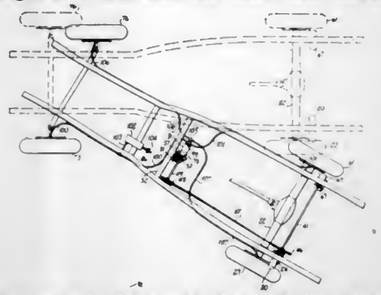
2,165,460
ADJUSTABLE LENGTH LEVER
Arthur J. Desing, Buffalo, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware
Application May 27, 1937, Serial No. 144,988
3 Claims. (Cl. 287—52.02)



1. A lever assembly comprising, in combination, a splined shaft, an internally splined hub member engageable in any one of a plurality of rotational positions relative to said shaft, the splines of respective members being drivably engageable with one another, said hub member having parallel serrations across one end face thereof, a lever having horizontal serrations engageable in a plurality of positions with the end serrations on said hub member, and means to clamp said hub member and said lever together.

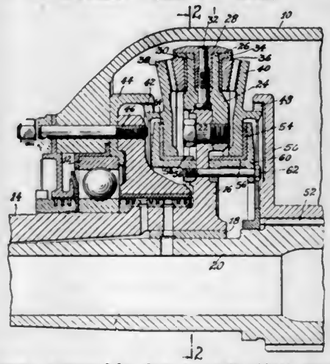
2,165,461
SHIFTING DEVICE FOR AUTOMOBILES
Charles A. Dreisbach, Yonkers, N. Y.
Application June 4, 1937, Serial No. 146,428
7 Claims. (Cl. 180—1)

1. A device for laterally shifting automobiles including in combination: a shifting-wheel rotatable in a direction transverse of and organized with an automobile structure adjacent one of the driving wheel-units thereof and mounted with capacity for bodily movement into and out of concurrent tractive engagement with the said driving-wheel unit and a road surface; and manually-controlled operating means serving to advance the said shifting-wheel into the said concurrent tractive engagement with the said driving-wheel unit and the said road surface to



be transversely driven by the said driving-wheel unit along the said road surface, and the said operating-means being also operable to retire the said shifting-wheel, and including a roller and a coacting cam having a dwell-portion coacting with the said roller to hold the said shifting-wheel in its retired position.

2,165,462
REDUCTION GEAR
Roland Chilton, Ridgewood, N. J., assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J., a corporation of New York
Application July 8, 1937, Serial No. 152,491
7 Claims. (Cl. 74—303)

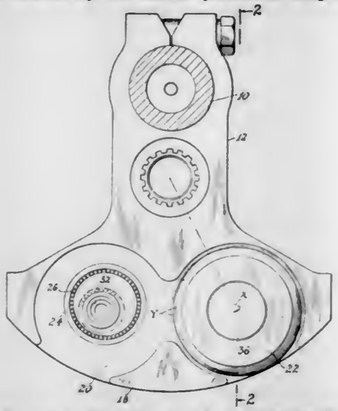


1. A gear assembly for a reduction gear unit comprising a shaft having a flange integral therewith, a spider annulus secured to the flange, said spider annulus including pinion journals and pinions thereon, bearing members secured to the flange on each side thereof, and bevel gears floatingly carried by said bearing members and engaging opposite sides of said pinions.

2,165,463
DYNAMIC TORQUE BALANCER
Roland Chilton, Ridgewood, N. J., assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J., a corporation of New York
Application October 16, 1937, Serial No. 169,348
7 Claims. (Cl. 74—604)

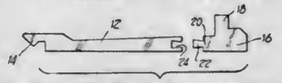
1. The combination with a shaft member having

an opening, of a counterweight mass comprising a disc having a central opening, and means comprising relatively eccentric journals respectively



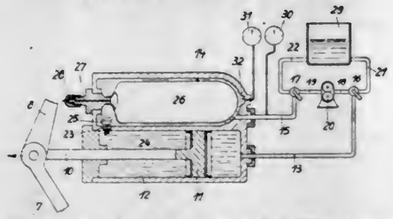
rotatably engaging in said openings for the pendulous support of the disc whereby the disc is forced to partake of the arcuate travel of the journal means and is free to drift rotationally thereon.

2,165,464
KNITTING JACK
Albert David Eichner, New York, N. Y.
Application July 16, 1938, Serial No. 219,523
2 Claims. (Cl. 66—63)



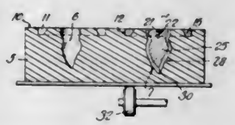
1. A single butt jack for use in "links-and-links" machines comprising a body portion of flat metal having a hook at one end and engaging means at the other end spaced inwardly from the longitudinal edges thereof, and a flat head portion aligned with the body portion, said head having an integral butt extension thereon at right angles thereto, and engaging means on said head portion spaced inwardly from the longitudinal edges thereof interlocking with the body engaging means to lock said body and head together against displacement in the plane of the head and body.

2,165,465
RETRACTABLE ALIGHTING GEAR FOR AIRPLANES
Paul G. Ehrhardt, Frankfort-on-the-Main, and Adolf Sprater, Berlin-Frohnau, Germany
Application November 18, 1936, Serial No. 111,458
In Germany November 14, 1935
5 Claims. (Cl. 244—102)



1. In an airplane having a landing gear, the combination of a cylinder, a piston movably arranged within said cylinder and connected to said landing gear, a hydraulic system for the displacement of said piston within the cylinder to retract and lower the landing gear, said cylinder containing liquid of said hydraulic system, a chamber having rigid walls, a passage, said passage connecting said chamber with said cylinder, and a bag-like diaphragm arranged within said chamber, said bag-like diaphragm having elastic walls and containing a gaseous medium under pressure adapted to absorb shocks of landing transmitted through said piston, said liquid and the walls of said bag-like diaphragm, said bag-like diaphragm conforming to the shape of said chamber, and the elastic walls of said bag-like diaphragm being adapted to be pressed against the rigid walls of said chamber by the pressure of the gaseous medium, when the pressure of the liquid becomes lower than that of the gaseous medium, to provide a support of the bag-like diaphragm by said rigid walls of the chamber against the pressure of the gaseous medium.

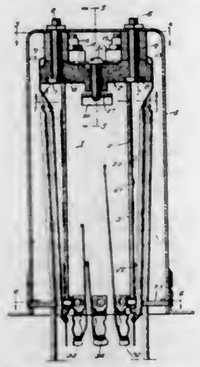
2,165,466
METHOD OF MAKING SHELL-LIKE PORCELAIN TOOTH STRUCTURES
Reiner W. Erdle, Chicago, Ill., assignor to Dental Research Corporation, a corporation of Illinois
Application December 28, 1936, Serial No. 117,695
8 Claims. (Cl. 18—55.1)



2. The method of making a shell-like porcelain tooth structure which comprises forming a tooth cavity in a flexible mold, supporting a core in said cavity with a space between the core and the wall of said tooth cavity, filling said space with porcelain moistened with water or other temporary binder, compacting the moistened porcelain in said tooth cavity and around said core to the form of a firm shell-like tooth structure by prolonged vibration, removing the shell-like tooth structure from the flexible mold, eliminating the core from the shell-like tooth structure, and thereafter firing the shell-like tooth structure to give it its final hardness.

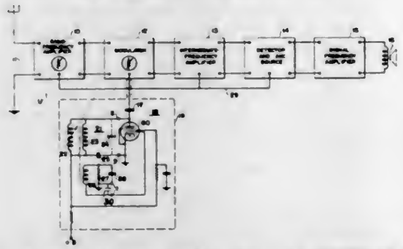
2,165,467
COIL-CONDENSER ASSEMBLY FOR RADIO RECEIVERS
David P. Earnshaw, Philadelphia, Pa., assignor to Philco Radio & Television Corporation, Philadelphia, Pa., a corporation of Delaware
Application February 27, 1935, Serial No. 8,543
5 Claims. (Cl. 250—16)

1. A shielded coil-condenser assembly for radio receivers and the like, comprising a shielding housing, a condenser unit having an insulating supporting base and condenser elements adjustably mounted on the upper side of said base, attachment elements extending upward through said base and the top of said housing to secure said base to said top, there being apertures in said housing top to permit adjustment of said condenser elements, a coil unit having an insulating coil support with an end thereof adjacent the lower side of said base and underlying said attachment elements, and means securing said coil support to said base, thereby said coil support



retains said attachment elements in place in said base during assembly.

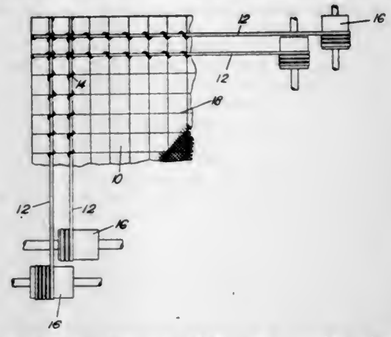
2,165,468
HIGH-FREQUENCY OSCILLATOR
John F. Farrington, Flushing, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application February 16, 1937, Serial No. 125,969
12 Claims. (Cl. 250—36)



1. A tunable coupling system comprising a pair of input terminals, a pair of output terminals, a frequency-determining circuit connected to one of said pairs of terminals including a pair of inductance elements and fixed capacitance means, all effectively in parallel, one of said inductance elements being adjustable to vary the frequency of said circuit continuously over a wide range, and a transfer circuit connected to the other of said pairs of terminals and including a third inductance element coupled to the other of said pair of inductance elements.

2,165,469
SEWING OF FABRICS
Margit Fellegi, Los Angeles, Calif., assignor to West Coast-Manchester Mills, Inc., Los Angeles, Calif., a corporation of California
Application March 4, 1937, Serial No. 128,902
3 Claims. (Cl. 2—243)

1. A garment material comprising a sheet of substantially non-elastic woven fabric, a series of elastic threads independently attached to the surface of said fabric in substantially parallel lines, a second series of elastic threads independently attached to said surface and extending in substantially parallel zig-zag lines in a direction substantially perpendicular to the direction of the first-named series of elastic threads whereby a series of diamond-shaped patterns results, all said elastic threads being attached in a stretched condition to said basic material whereby the basic

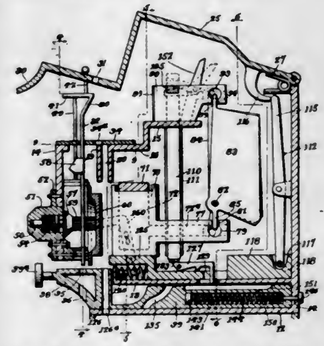


material will assume when not under stress a puckered formation.

2,165,470
AMINE SALT PREPARATIONS FOR INTERNAL MEDICATION
Frank B. Fisk, Indianapolis, Ind., assignor to Pitman-Moore Company, Indianapolis, Ind., a corporation
No Drawing. Application January 6, 1937, Serial No. 119,270
8 Claims. (Cl. 167—65)

1. A composition suitable for use in internal medication including a mandelate of ethylene diamine.

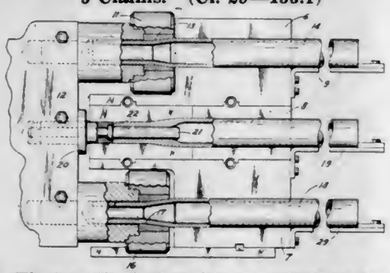
2,165,471
FRAUD DETECTING DEVICE FOR COIN CONTROLLED APPARATUS
Thomas R. Freeman and Willard S. Freeman, Washington, D. C.
Application November 20, 1937, Serial No. 175,716
7 Claims. (Cl. 194—97)



1. A fraud detecting device comprising a housing, a spring-pressed rotatable coin holder in the housing, a plurality of closely associated movable members having ends spaced from the holder, the combined spaced ends of said members having an intaglio representing one face of a coin formed therein, said ends being normally spaced in an irregular manner to disfigure the intaglio, means for pressing the ends of the members into engagement with the face of the coin, means for rotating the holder, manual means causing operation of the rotating means for revolving the coin and holder until the embossed configuration on one face of the coin neatly fits into the intaglio when the ends of the

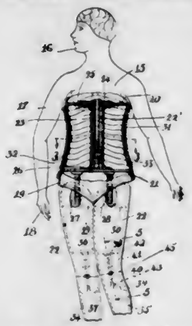
members will be moved into alignment, a slidable means preventing discharge of the coin from the housing, a spring tending to move the slidable means to an inoperative position, means actuated by the manual means for moving the slidable means to an operative position, means for holding the slidable means in said position, a gravity-actuated means moving the holding means to an inoperative position to set free the slidable means for action by the spring to discharge the coin, means operated by the manual means for restoring the gravity-actuated means to an inoperative position, means supporting the gravity-actuated means in an inoperative position, and means operated by the pressing means for the movable members for causing said supporting means to release the gravity-operated means when the ends of the movable members have been aligned.

2,165,472
AXLE AND METHOD OF MAKING SAME
John H. Friedman, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio
Application October 28, 1936, Serial No. 108,023
5 Claims. (Cl. 29—153.1)



1. That method of making a tubular axle having a reduced end portion with thickened walls which comprises extruding the end portion of a tubular blank while cold, heating said extruded portion and thereafter upsetting the heated extruded portion to shorten same and effect an increase in the diameter and an increase in wall thickness.

2,165,473
DISPLAY FIGURE
Lillian L. Greneker, New York, N. Y.
Application July 22, 1937, Serial No. 155,007
4 Claims. (Cl. 223—68)



1. In a display figure, leg members having thigh and calf portions, transverse plates secured within the lower and upper portions of the said thigh and calf portions respectively, an expansible tube joining the thigh and calf portions and hinged at its upper and lower ends to the said transverse plates, an intermediate member wedge-shaped in vertical section and hingedly secured at the front edge to the thigh and calf portions and yieldably secured at the rear edge to the thigh and calf portions whereby the said intermediate member penetrates the thigh and calf portions in bent positions of the latter.

2,165,474
ORNAMENTAL DISPLAY DEVICE
Lillian L. Greneker, New York, N. Y.
Application December 1, 1937, Serial No. 177,506
5 Claims. (Cl. 41—22)



5. A self-supporting hollow ornamental display device composed of a laminated wall whose outer surface is contoured into conformity with the inner surface of a hollow mold, said wall comprising an outer layer of relatively smooth light-transmitting sheet material, a layer visible through said smooth layer and comprising irregularly crinkled sheet material, a rear reinforcing layer of overlapping glue-soaked paper patches, and at least one configured element of relatively smooth, relatively opaque sheet material of contrasting coloration arranged between said crinkled layer and said light-transmitting outer layer.

2,165,475
DISPLAY STRUCTURE
Lillian L. Greneker, New York, N. Y.
Application April 2, 1938, Serial No. 199,552
4 Claims. (Cl. 41—10)



4. In a display head, a wall having an outer ornamental layer which comprises haphazardly overlapping torn paper patches having irregular contours and attenuated deckle edges, and a hair-simulating portion composed of paper strips shaped and coiled to simulate the desired coiffure, certain of the patches bordering the hair-simulating portion being arranged in overlapped relation to the adjacent elements of the hair-simulating portion.

2,165,476
DISPLAY HEAD
Lillian L. Greneker, New York, N. Y.
Application February 16, 1939, Serial No. 256,778
5 Claims. (Cl. 35—59)

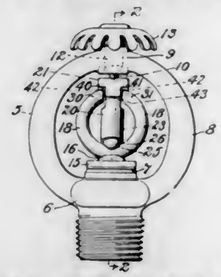
1. In a display head, a hair-simulating portion composed of loosely woven fabric and in-

cluding at least one bias-woven strip having an



end portion whose strands are combed out into an unwoven bundle.

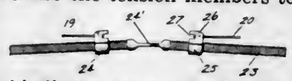
2,165,477
SPRINKLER HEAD
William B. Griffith, Audubon, N. J.
Application March 13, 1937, Serial No. 130,621
2 Claims. (Cl. 169—39)



1. A sprinkler head comprising a body having a passageway formed through the longitudinal axis thereof, a valve forming an abutment adapted for closing said passageway, a frame upon said body, an abutment upon the frame and adjustable relatively to the valve abutment, a resilient strut having a central opening, said strut having one portion thereof mounted upon said valve abutment, a lever fulcrumed upon the opposite portion of said strut, a short arm of the lever engaging said adjustable abutment and positioning said fulcrum at one side of said axis, a long arm of the lever positioned at approximately right angles to the short arm and adapted to swing through said opening of the strut to a position with its free end upon the opposite side of said axis relatively to the fulcrum, said long arm having an elongated pocket extending parallel with the length of the long arm and open at the free end of the latter, a key mounted for longitudinal movement within said pocket, fusible material confined within said pocket under compression by force applied to the key and normally holding the key extended beyond the free end of the long arm for engagement with said strut, said key and said strut having coacting surfaces in sliding engagement adapted for the free longitudinal movement of the long arm and the key thereon relatively to the strut in a line approximately parallel with said axis when the adjustable abutment is actuated for placing the strut and lever under compression between said abutments.

2,165,478
TURNBUCKLE
John H. Gross, New York, N. Y.
Application June 22, 1937, Serial No. 149,614
2 Claims. (Cl. 287—60)

1. A turnbuckle comprising a screw rod having an unthreaded mid-portion of relatively reduced cross section in one transverse dimension, a pair of nuts in normally freely rotatable and oppositely threaded engagement with threaded portions of the screw rod on opposite sides of said mid-portion, tension means engaging the nuts on one side of the rod, reacting initially on the nuts in relatively opposing directions substantially parallel to the length of the rod and thus tending to reduce the normal freedom of rotary movement between the nuts and the rod and manually actuated means for rotating the screw rod to cause the nuts to approach each other and thus cause the tension members to cant the



nuts into binding engagement with the screw rod and said nuts acting with a leverage effect on the rod to bend the same about said reduced mid-portion as an integral hinge, said mid-portion forming an area sufficiently weak to permit it being bent under the force inherent in such manual rotating of the screw rod and having sufficient resiliency when so bent to react on the nuts to hold them in binding engagement with the rod whereby the nuts and rod are secured automatically in a nonrotative manner to the screw rod by the relatively outwardly directed tension of the members acting in one direction and the tendency of the screw rod to revert to its initial configuration acting in the contra direction.

2,165,479
TEE OFF APRON
Henry Theodore Hallberg, Chicago, Ill.
Application August 9, 1938, Serial No. 223,975
1 Claim. (Cl. 273—33)

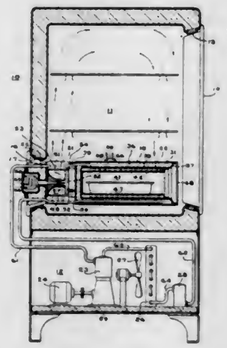


A golfing accessory comprising an arrow formed of thin and flat stock and of the same thickness throughout with its rear portion widened and said rear portion having a longitudinally extending row of holes therein, said holes being of different sizes and a tee having a tapered shank adapted to be passed through any one of the holes, said holes regulating the distance the tee is forced into the ground.

2,165,480
REFRIGERATING APPARATUS
Roger W. Hastings, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 30, 1936, Serial No. 108,344
9 Claims. (Cl. 62—116)

1. In refrigeration apparatus, the combination of a refrigerator cabinet having an opening in a wall thereof, a removable heat insulated closure member for said opening, an ice freezing compartment disposed in said cabinet, a first heat absorbing element for abstracting heat for the preservation of food, a second heat absorbing element for abstracting heat from said ice freezing compartment to congeal liquids therein and a fan for circulating the air in said cabinet over said first heat absorbing element, said second heat absorbing element being supported by said ice freezing compartment, and said first heat absorbing element, said ice freezing compartment

and said fan being removable from and insertable



into the refrigerator cabinet as a unitary structure with said closure member.

2,165,481

ELECTRICAL MAKE AND BREAK CONTACTS

Franz R. Hensel and Kenneth L. Emmert, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application January 19, 1939, Serial No. 251,706
4 Claims. (Cl. 200—166)

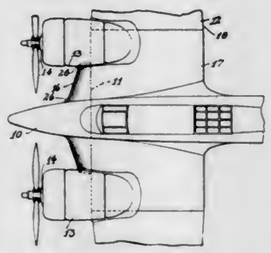
1. An electric contact member, containing as an essential ingredient, silver, to which has been added thorium, in quantities ranging from .005 to 25%.

2,165,482

AIRCRAFT WING ARRANGEMENT

Paul E. Hovgard, Kenmore, N. Y., assignor to Curtiss-Wright Corporation, a corporation of Delaware

Application March 26, 1938, Serial No. 198,217
3 Claims. (Cl. 244—13)



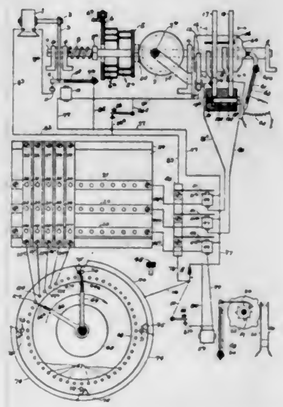
1. In aircraft comprising a long nose fuselage, an inboard wing section of less thickness than the fuselage extending laterally therefrom, said inboard section being characterized by a profile of long chord, low angle of incidence, and a leading edge rearwardly spaced from the fuselage nose; a protuberance at the outer end of said inboard section extending forwardly of the section leading edge; and an outboard wing section extending laterally beyond said protuberance, and having the following characteristics: A leading edge farther to the rear than that of the inboard section, a thickness substantially equal to that of the inboard section, a trailing edge comprising a substantial prolongation of the trailing edge of the inboard section, and an effective angle of incidence lower than that of the inboard section.

2,165,483

RADIO APPARATUS

Merion J. Huggins, Upper Saddle River, N. J.

Application May 13, 1933, Serial No. 670,894
Renewed May 8, 1937
23 Claims. (Cl. 250—20)



1. In means for effecting predetermined tuning of the receiving circuits of a radio receiver including at least one tuning element to resonance with transmitted radio frequencies, a motor connected in circuit with a source of electric energy operatively connected with and adapted to adjust the tuning element, means connected in the motor circuit to stop and fasten the tuning element against movement in any direction from adjusted position and close and open the motor circuit and normally urged to motor circuit opening and tuning element holding position, radio frequency selecting means connected in a normally open circuit with a source of electric energy, time controlled circuit closing means connected in and adapted to close the circuit of said frequency selecting means at predetermined selected periods of time, and means connected in circuit with the frequency selecting means rendered active upon the closing of the circuit of the frequency selecting means to actuate the motor circuit closing and opening and tuning element stopping and fastening means to circuit closing and tuning element releasing position and rendered inactive upon the opening of the circuit of the frequency selecting means to permit said means to move to circuit opening and tuning element stopping and fastening position.

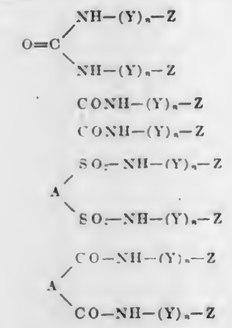
2,165,484

CONDENSATION PRODUCT HAVING AN AMIDELIKE STRUCTURE

Johann Huismann, Leverkusen-Wiesdorf, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application October 2, 1936, Serial No. 103,712. In Germany October 5, 1935
1 Claim. (Cl. 260—553)

Substituted arylacidylamino compounds selected from the class of those having the following formulae:



and

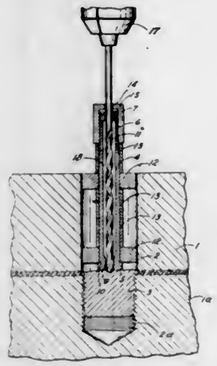
in which A stands for aryl, Y stands for a member of the group consisting of —RSO_2NH—, —$RNHSO_2$—, —RCONH— and —RNHCO—, R being an aryl radical, Z stands for an aryl radical and n is an integer being at least equal to 1, the molecule of the said compounds containing at least 5 aromatic nuclei, at least 4 sulfonimido groups and at least 2 free sulfonic acid groups, the said compounds, in the form of their alkali and ammonium salts, being colorless or nearly colorless powders which are soluble in water and are valuable tanning agents and reserving agents for animal fibres against substantive dyestuffs.

2,165,485

DRILL GUIDE

Elmer F. Jackman, Elyria, Ohio, assignor to The Ridge Tool Company of Elyria, Ohio, North Ridgeville, Ohio, a corporation of Ohio

Application December 12, 1936, Serial No. 115,573
4 Claims. (Cl. 77—62)



1. In a drill guide, a shank, said shank formed to provide an axial bore therein comprising an enlarged bore through most of the shank and a small bore at the lower end with a tapered wall connecting the large bore to the smaller bore, centering collars for supporting and centering said shank in a threaded aperture, spacers for determining the longitudinal position of said centering collars, a cap for holding the spacers and collars on said shank and having an upper drill guide bore.

2,165,486

INSECTICIDE AND METHOD FOR ITS PREPARATION

Paul W. Jewel and William E. Bradley, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application November 21, 1933, Serial No. 699,034. Renewed December 5, 1938
6 Claims. (Cl. 167—43)

1. A method of producing a transparent insecticide capable of ready emulsification with water, comprising the steps of thoroughly intermixing at ordinary temperatures a mineral spray oil, a higher fatty acid between about 4% and 6% by volume of the insecticide of a sulfonated fatty acid, and an alcohol of the class consisting of butyl alcohols, glycols, monomethyl, ethyl and butyl ethers of mono and di-ethylene glycols and cyclohexanol, adding slowly and with agitation a solution of an emulsifying agent, raising the temperature of the mixture to not exceeding approximately 140° F. during said last addition, cooling the obtained mixture, and finally adding thereto a nicotine compound.

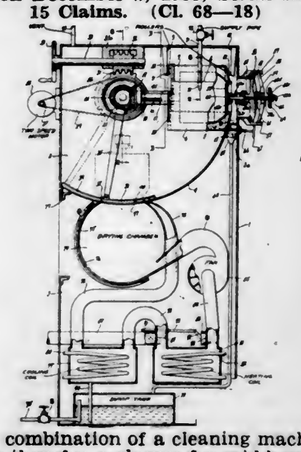
3. An insecticide capable of producing a transparent emulsion with water containing mineral spray oil, nicotine oleate, potassium oleate, an alcohol of the class consisting of butyl alcohols, glycols, monomethyl, ethyl and butyl ethers of mono- and di-ethylene glycols and cyclohexanol, and an alkaline metal salt of sulfonated oleic acid in the order of about 4% to 6% by volume of the insecticide.

2,165,487

GARMENT CLEANING SYSTEM

George W. Johnson, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio

Application December 2, 1935, Serial No. 52,528
15 Claims. (Cl. 68—18)



1. The combination of a cleaning machine and a housing therefor, a closure for said housing and a closure for said machine, means for maintaining said closures in a tightly sealed position, said closures being connected to move as a unit for opening said closures to insert work in the machine, and means operatively associated with the closure for the machine and extending outside of the housing by means of which the closure for said machine may be opened while the closure for said housing is maintained in a tightly sealed position.

6. The combination of a cleaning machine in-

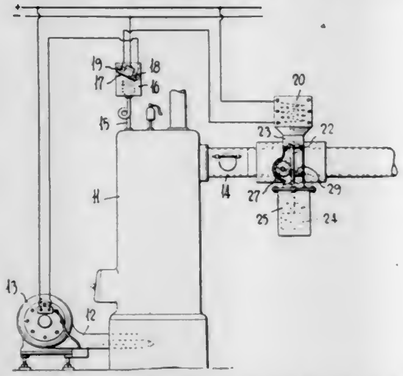
cluding a substantially cylindrical rotatable drum having an end opening and a closure for said opening, a housing for said machine which is substantially closed to the atmosphere, a door for said housing aligned with the opening in said drum through which work may be charged into said drum when the drum closure is open, means for rotating said drum to wash or clean the work, said housing having a lower opening, a door for the lower opening, and means whereby the end of said drum having the opening may be moved to a position above the lower opening and the door for the lower opening may be moved to open position, whereby the goods may be discharged from the drum through the opening in the lower portion of said housing when the drum closure is open.

8. Cleaning apparatus including a housing, a partition dividing said housing into upper and lower compartments, a cleaning machine arranged in the upper compartment including a drum having an open end, a closure for said open end, a drying chamber arranged in the lower compartment, said partition having an opening providing communication between the upper compartment and the drying chamber, a closure for said opening, means for cleaning fabric in said drum, means whereby solvent may be supplied to and drained from said drum, means whereby the drum may be moved to such a position that its open end is above the opening in said partition, and means responsive to the movement of the drum for opening the closure in said partition.

2,165,488

CONTROL DEVICE FOR HEATING SYSTEMS

Paul Klimis, New York, N. Y.
Application July 29, 1937, Serial No. 156,411
4 Claims. (Cl. 236—1)

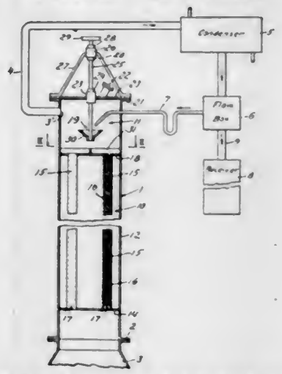


1. In a heating system a steam chamber, a fuel burner, a motor operating the burner, an outlet flue, a damper in the flue, means in the flue for mounting the damper on a horizontal axis below its diameter, a pinion on the axis, a vertically extending rack engaging the pinion, a weight on the rack normally holding the damper in open position, a solenoid above the rack which when engaged moves the damper to closed position, a switch actuated by the pressure in the steam chamber, contacts on the switch closing a circuit through the solenoid only when the pressure is above a predetermined maximum, and contacts on the switch closing a circuit through the motor only when the pressure is below a predetermined minimum.

2,165,489

GAS LIQUID CONTACT APPARATUS AND METHOD

Frederick H. Kranz, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a corporation of New York
Application March 14, 1936, Serial No. 68,931
3 Claims. (Cl. 261—94)

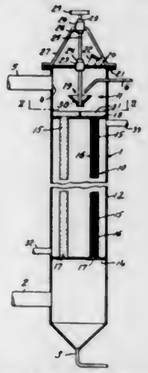


1. A gas-liquid contact apparatus comprising a shell, a multiplicity of spaced, packed, vertical tubes within said shell, said tubes being joined together at their ends by tube plates defining headers above and below said tubes, said shell, tube plates and tubes defining a heat dissipating chamber, said tubes being not in excess of three inches in diameter, all of said tubes being of equal diameter, the packing in said tubes extending to a height at least twenty-five times the diameter of said tubes, and means to distribute liquid substantially equally among said tubes.

2,165,490

GAS ABSORPTION

Frederick H. Kranz, Buffalo, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a corporation of New York
Application December 10, 1936, Serial No. 115,162
2 Claims. (Cl. 23—3)



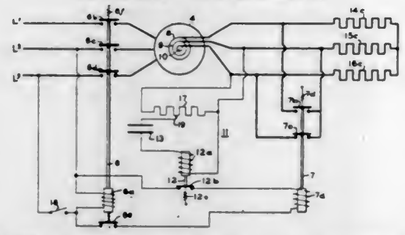
1. In a gas purification process involving the scrubbing of gas with liquid, the improvement which comprises introducing a stream of liquid into a gas space, dividing said stream of liquid while in said gas space into a plurality of substantially equal portions, flowing said portions through columns of packing to form a plurality of equally spaced liquid streams of equal and

uniform circular cross-sectional area throughout their length and each of a cross-sectional area not exceeding 7 square inches, introducing a stream of gas into a second gas space, dividing said stream of gas into a plurality of spaced streams each of a cross-sectional area not exceeding 7 square inches, each individual to a single liquid stream, and each of a length at least equal to 25 times the diameter of a circle equal in area to the cross-sectional area of the said stream, causing each gas stream to flow over the packing in intimate contact with and countercurrent to the liquid stream individual thereto throughout the entire length of said streams, uniting the gas streams in said first-mentioned gas space, and withdrawing the united gas stream from said first-mentioned gas space.

2,165,491

CONTROL OF ALTERNATING CURRENT MOTORS

John D Leitch, Shaker Heights, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application October 13, 1937, Serial No. 168,760
16 Claims. (Cl. 172—179)



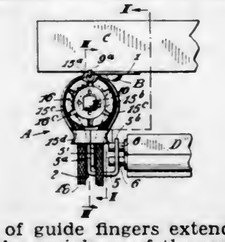
8. The combination with an alternating current motor having a secondary circuit, a plurality of electroresponsive devices, and a plurality of operating circuits, said operating circuits being associated with said electroresponsive means respectively and with said secondary circuit for selectively controlling the operation of the motor in response to variations in the electrical condition of said secondary circuit, each of said electro-responsive devices being such that, when its associated operating circuit is operatively associated with said secondary circuit, its inductive effects normally would render it substantially inoperative in response to the variations in the electrical condition of the secondary circuit, of means in each of the operating circuits for eliminating the inductive effects of its associated electroresponsive device and for rendering each operating circuit capable of becoming capacitively reactive under different predetermined variations in the secondary circuit to permit different predetermined variations in the secondary circuit to be selectively effective in each of the operating circuits to cause accurate selective operation of the associated electroresponsive devices in response to the variations in the electrical condition of the secondary circuit.

2,165,492

VENETIAN BLIND ACTUATING MECHANISM

Hans K. Lorentzen, Montclair, N. J.
Application January 5, 1937, Serial No. 119,065
5 Claims. (Cl. 156—17)

1. A Venetian blind fitting comprising: a horizontal shaft, a pulley mounted on the shaft, a movable guide plate behind the pulley and mounted on a pivot located above the shaft, the guide plate having an opening about the shaft to permit lateral movement of the guide plate,

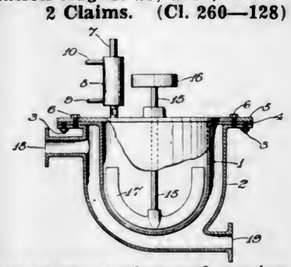


and a pair of guide fingers extending from the plate over the periphery of the pulley below the axis of the pulley.

2,165,493

MANUFACTURE OF SULPHUR COLORS

Herbert A. Lubs, Wilmington, Del., and George Clifford Strouse, East Aurora, N. Y., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application August 25, 1937, Serial No 160,826
2 Claims. (Cl. 260—128)



1. In the process of manufacturing a thionated dye by heating an indophenol in a reaction mixture having a boiling point higher than 100° C. and containing an alkali metal poly-sulphide, water and a water soluble solvent from the group consisting of mono- and poly-hydroxy alcohols, their esters and ethers, the step which comprises heating said reaction mixture and agitating the same in a container in which at least the parts in contact with the reaction mixture consist of an alloy of about 18% chromium, about 8% nickel, about 0.05% to about 0.3% carbon, not over 1.0% manganese and the remainder mainly iron.

2,165,494

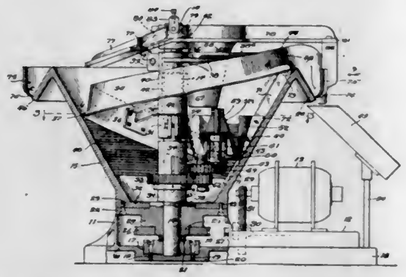
SHOE INSOLE

Euclid I. La Chapelle, Brockton, Mass.
Application June 6, 1938, Serial No. 212,046
1 Claim. (Cl. 36—22)



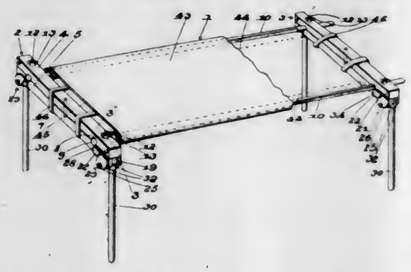
A welt shoe insole comprising a body portion and a sewing rib having an inwardly extending flange, the flange being cemented to the body portion of the insole, said cement bond being reinforced by only a single row of rigid fasteners which are located at a substantial distance inwardly from the inseam stitch receiving portion of the sewing rib and which pass through the sewing rib flange and only part way through the body portion of the insole.

2,165,495
ROUNDER
Fred Marasso, Joliet, Ill., assignor to Union Machinery Company, Joliet, Ill., a corporation of Illinois
Application April 16, 1938, Serial No. 202,528
22 Claims. (Cl. 107—9)



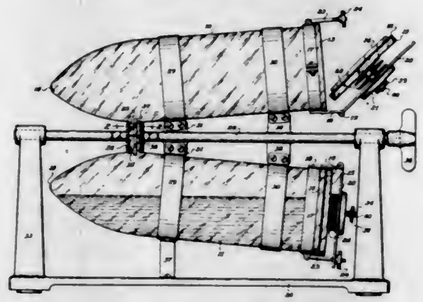
2. In a rounder, a stationary rounding-up bowl in which dough lumps are partially rounded up, said bowl having a side wall of inverted frusto-conical form containing a discharge opening, a conical rotatory roll in said bowl and forming with its wall a trough, said roll cooperating with the wall of the bowl to partially round up dough lumps, and a hopper through which dough lumps are dropped into said trough, in combination with a rotatory main rounding-up bowl having a side wall of inverted frusto-conical form surrounding said first mentioned bowl, and a stationary, spiral rounding-up member having a lip contacting with the main rounding-up bowl, said spiral rounding-up member having a receiving end disposed below the first mentioned bowl and located in position to receive partially rounded-up dough lumps discharged from the first mentioned bowl.

2,165,496
QUILTING FRAME
Thaddeus D. McCall and Ada May McCall, Imperial, Calif.
Application July 26, 1938, Serial No. 221,433
11 Claims. (Cl. 45—24)



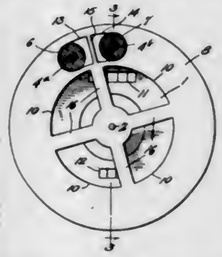
9. In a quilting frame, a pair of end frame members, said frame members comprising pairs of clamp members having confronting serrations, a pair of legs for each frame member, hinges connecting the legs to similar ones of the clamp members in each of the frame members, quilt rods to span the distance between the frame members, recesses so formed in the clamp members as to contain the ends of the quilt rods and portions of the legs when the latter are swung to erect positions, and means to draw the clamp members together, simultaneously interengaging the serrations, gripping the quilt rods and securing said portions of the legs so as to render the legs immovable.

2,165,497
STERILIZER
Antone O. Mickelsen, Portland, Oreg.
Application April 5, 1938, Serial No. 200,103
8 Claims. (Cl. 21—87)



2. In a sterilizer of the type described, a rotatable shaft, a pair of cylindrical sterilizing compartments removably secured on opposite sides of said shaft, a connection between said sterilizing compartments, means for holding said sterilizing compartments against rotation.

2,165,498
ILLUMINATED SPEEDOMETER
Gordon Moody, Amherst, Mass.
Application November 17, 1937, Serial No. 175,167
2 Claims. (Cl. 116—129)

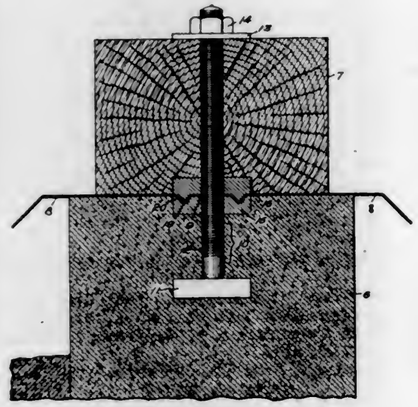


1. In a speedometer, a dial provided with gage markings in an arcuate path, said dial having openings in the path in spaced relation to each other circumferentially of the dial, covers of light penetrable material applied to the dial in covering relation to the openings and bearing gage markings, the said covers being of prominently contrasting colors and one having its gage marking indicating a speed below a predetermined speed indicated by a gage marking midway the openings and the other having its gage marking indicating a speed above the predetermined speed, a shaft journaled through said dial, and a shield for the dial carried by and moving with the shaft and having sight openings closely spaced from each other to provide a narrow strip constituting an indicator, the sight openings having movement with the shield along the path of speed markings and adapted to successively and collectively display the speed markings upon said covers.

2,165,499
PRINTING OF ARTIFICIAL FOILS, FILMS, AND SIMILAR PRODUCTS
William Henry Moss, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application May 5, 1936, Serial No. 77,922. In Great Britain May 17, 1935
12 Claims. (Cl. 101—426)

1. A printing ink which comprises a pigment, plasticizable material comprising an organic derivative of cellulose and a plasticizer therefor in a proportion of at least 500% of the total weight of the plasticizable material.

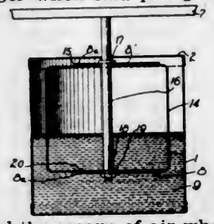
2,165,500
SHIELDING STRUCTURE AGAINST INSECTS
Donald M. Muirhead, Duxbury, Mass.
Application July 22, 1938, Serial No. 220,694
3 Claims. (Cl. 72—0.5)



1. An insect-insulated foundation structure for buildings, comprising, in combination, a foundation wall, anchor bolts set in and projecting from a timber-receiving face of the wall, a metallic shield strip extending across and in contact with said wall face, said strip having apertures for the bolts, and means for sealing the strip peripherally of said apertures, said means comprising, for each bolt, a laterally projecting element positioned thereon so as to set flush with the face of the foundation wall at which the bolt projects, a cooperating element threaded onto the bolt at the opposite face of the shield strip, and cooperating annular male and female formations on the adjacent faces of said elements serving to crimp the shield strip between them and concentrically of the bolt.

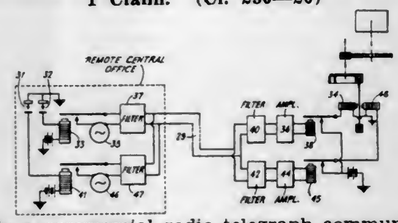
2,165,501
DASH POT
Leon J. Nowak, Jr., Chicago, Ill.
Application January 12, 1938, Serial No. 184,620
6 Claims. (Cl. 188—96)

1. A dash pot comprising a container for a fluid, and a hollow plunger within said container and dipping into said fluid, said plunger having a top wall with a vent for the admission of air within said plunger when said plunger moves in one



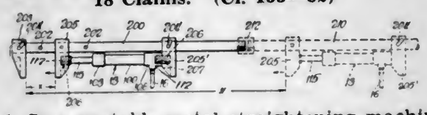
direction, and the escape of air when the plunger moves in the other direction.

2,165,502
REMOTE CONTROL SYSTEM
Harold O. Peterson, Riverhead, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 19, 1935, Serial No. 27,319
1 Claim. (Cl. 250—20)



In a commercial radio telegraph communication system, a heterodyne receiver for receiving signal waves, a remote control station, utilization apparatus at said remote control station, a wire line extending between said utilization apparatus and said receiver, said line being coupled to the output of said receiver, and means for controlling the heterodyne frequency at said receiver, said means including tuning mechanism at said receiver, two generators of oscillations of different audible frequencies at said control station, said tuning mechanism being responsive to said oscillations, a wire circuit extending from said control station to said tuning mechanism, individual normally unenergized relays at said control station for separately effecting the transmission of oscillations from said two generators over said circuit, and separate filters at said control station and at said receiver for selectively passing the oscillations generated by said audio generators, individual relays at said receiver each operable in response to only one of the frequencies passed by said filters for affecting said tuning mechanism, and keying mechanism for selectively operating said relays at the control station, whereby said tuning mechanism at said receiver may be controlled in either of two senses.

2,165,503
PORTABLE HYDRAULIC METAL STRAIGHTENING MACHINE
Edward M. Pfauser, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application February 4, 1935, Serial No. 4,728
18 Claims. (Cl. 153—32)

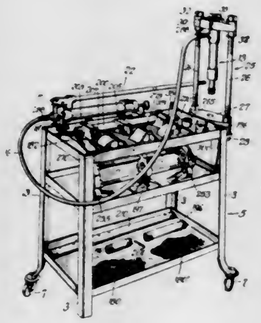


1. In a portable metal straightening machine,

the combination of a tubular guide having suitably spaced transverse holes, a plurality of tubular slides guided on said guide, said slides having laterally extending jaws, said slides having transverse holes adapted to register with said transverse holes in the guide, pins adapted to enter said holes for pinning one or more of the slides of the guide, said slides having coupling parts, a hydraulic ram unit having a cylinder and a piston, the cylinder and piston having coupling portions for cooperating with said coupling parts, one of said slides being secured to the end of said cylinder opposite the piston and movable along said guide upon extension of said piston, and a flexible hose for supplying hydraulic pressure to said ram unit.

18. A ram unit for applying force to a member to be moved comprising, a ram cylinder, a plunger in said cylinder having a projecting stud portion, coupling means at the end of said cylinder nearer to said stud portion, means secured to said stud portion and to said coupling means for adapting said unit for engaging said member and a suitable abutment, and means for applying pressure to said plunger.

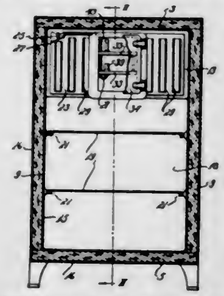
2,165,504
PORTABLE HYDRAULIC METAL STRAIGHTENING MACHINE
Edward M. Pfauser, Elm Grove, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application April 4, 1936, Serial No. 72,750
23 Claims. (Cl. 153—32)



1. In combination, a ram unit of the class described having a ram cylinder, a plunger therein, a cap member at one end of said cylinder guiding said plunger for movement outwardly of said cylinder, a base member at the opposite end thereof, means comprising a flexible conduit carried by said base member and communicating therethrough with said cylinder for transmitting fluid pressure to said cylinder, and means on said cap member, base member and plunger, adapted to receive detachable work engaging appliances.

20. In combination, a ram unit of the class described having a ram cylinder, a plunger therein, means at one end of said cylinder guiding said plunger for movement outwardly of said cylinder, a base at the opposite end of said cylinder, means comprising a flexible conduit communicating with said cylinder for transmitting fluid pressure thereto to force said plunger outwardly, and means on the outer end of said cylinder, base, and plunger, adapted to receive detachable work engaging appliances.

2,165,505
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application September 28, 1934, Serial No. 745,908
Renewed November 18, 1937
2 Claims. (Cl. 62—116)

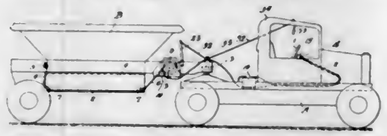


1. In combination in a refrigerator, heat insulating walls enclosing a food storage compartment, an adjacent machine compartment, a refrigerant compressor unit in the machine compartment, a vertically disposed finned cooling plate extending across the upper portion of said food storage compartment, a freezing chamber enclosure projecting horizontally from said cooling plate into said food storage compartment, and freezing plates in said freezing chamber.

2,165,506
METHOD OF MAKING A COMPOSITE FABRIC
Herbert Platt, Cumberland, Md., and Arthur Bruce Snowdon, Hillidale, N. J., assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application February 25, 1937, Serial No. 127,774
6 Claims. (Cl. 154—2)

1. In a process for preparing a laminating fabric for adhesively uniting the components in a composite fabric, the steps of applying to a fabric containing yarns of an organic derivative of cellulose and cellulose yarns a plasticizer for the organic derivative of cellulose, and ageing the fabric at a temperature of about 40° C. for a period of from 66 to 90 hours so as to cause the plasticizer to migrate from the celulose yarns to the organic derivative of cellulose yarns.

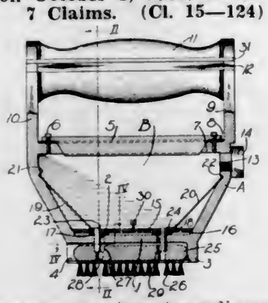
2,165,507
TRACTOR-TRAILER DUMPING VEHICLE
Alvin C. Rasmussen, Indianapolis, Ind., assignor to Insley Manufacturing Corporation, Indianapolis, Ind., a corporation
Application January 7, 1938, Serial No. 183,915
14 Claims. (Cl. 298—35)



3. In a dumping vehicle comprising a dump body having dumping doors, means for causing discharge action of the dumping doors by opening same, a motor for effecting closing operation

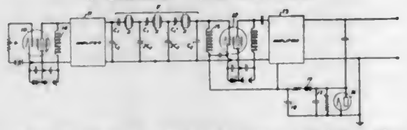
of the dumping doors, automatic means for conditioning the motor to be operated when the dump doors have been actuated to assume their discharging positions, and manual means to initiate operation of the motor when same has been conditioned for operation by the above mentioned means.

2,165,508
APPLICATOR
Edna E. Rieber, Chicago, Ill.
Application October 1, 1937, Serial No. 166,777
7 Claims. (Cl. 15—124)



1. In a scalp treatment appliance, the combination with a reservoir having a plurality of outlets, of a single plate valve member within said reservoir for normally closing all of said outlets, a scalp treating brush loosely supported in said appliance for movement towards and away from said outlets, said brush having ports through it, and pins working through said outlets and within said brush ports and operable by movement of the brush towards said outlets for unseating said plate valve member, the engagement of said pins in said brush ports serving as means for guiding said brush in its movement towards and away from said outlets.

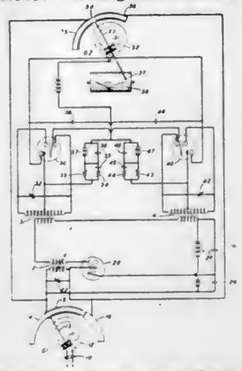
2,165,509
OSCILLATION GENERATOR
Douglas H. Ring, Little Silver, and William T. Wintringham, Chatham, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 22, 1938, Serial No. 203,558
5 Claims. (Cl. 250—36)



1. An oscillation generator comprising a band-pass wave filter having a single transmission band of width less than fifty cycles per second located in a superaudible frequency range, a high gain amplifier connected to the input terminals of said filter, and a source of thermal agitation voltages coupled to the input terminals of said amplifier.

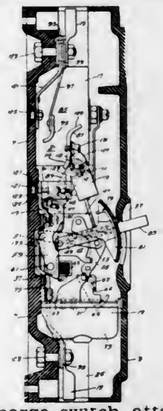
2,165,510
ELECTRICAL MEASURING, RECORDING, AND CONTROL SYSTEM
Victor E. Rosene, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 27, 1936, Serial No. 71,139
8 Claims. (Cl. 177—351)

1. The combination in an electrical measuring and recording system of a first galvanometer, an oscillation generator, a variable capacitor comprising stationary and movable plates for controlling the frequency of said generator, a recording galvanometer having differential windings,



and two differently tuned rectifiers coupled to the output of said generator for energizing the windings of said recording galvanometer, each of the movable elements of said galvanometers carrying a different movable plate of said capacitor.

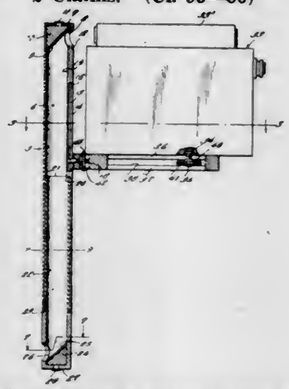
2,165,511
CIRCUIT BREAKER
Jerome Sandin, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application November 20, 1936, Serial No. 111,801
17 Claims. (Cl. 200—107)



1. A field discharge switch attachment for a circuit breaker having relatively movable contacts, a switch member movable to an open and to a closed circuit position to open and close said contacts, and an operating means for moving said switch member to open or closed circuit position with a snap action, said field discharge switch attachment comprising a resiliently mounted stationary butt contact, a pivoted actuating member, a movable butt contact pivotally mounted adjacent one end of said actuating member, spring means for biasing said movable contact toward said stationary contact, weight means carried by said movable contact for overbalancing the same so as to prevent said movable butt contact from lagging behind said actuating

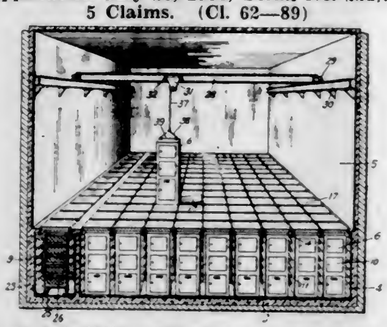
member during movement thereof, and means coupling said actuating member to said switch member for movement thereby in an opposite sense from that of said switch member so that said butt contacts open on closure of said breaker contacts and close on separation of said breaker contacts.

2,165,512
CAMERA PERISCOPE
Ralph M. Schofield, West Medford, Mass.
Application March 30, 1938, Serial No. 199,033
2 Claims. (Cl. 95—86)



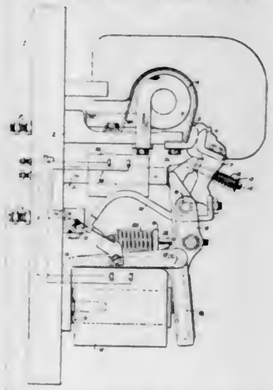
2. A periscope camera support comprising telescoped tubular upper and lower sections, an upper section having formed therein a vertical slot, a clamping bolt having a head thereon vertically slidably confined in said slot, a generally horizontal camera support formed in its inner end with a transverse slot lying in the plane of the support and slidably receiving said bolt, a nut on said bolt for bearing against a part of said support opposed to said inner end whereby to clamp said support in a transversely and vertically adjusted position relative to said upper section, a light directing reflector in said upper section and facing the direction of said camera support, said reflector being arranged to reflect light through the said upper section and a lower section of the periscope, said lower section of the periscope having a viewing mirror arranged to reflect the light rays from said reflector to the eye of an observer.

2,165,513
COLD STORAGE LOCKER ROOM
Roy W. Smith, Newark, Ohio
Application July 28, 1938, Serial No. 221,769
5 Claims. (Cl. 62—89)



1. In a building structure, a room, said room being divided by a horizontally disposed partition into a lower locker chamber and an upper room or chamber into which individual lockers may be raised for access thereto, said lower chamber being insulated, refrigerating means disposed in said lower chamber for bringing it to a low temperature, a plurality of lockers normally disposed in said lower chamber, said partition being provided with a space above each locker through which the locker may pass, a plurality of lids for closing said spaces and for forming the floor of said upper chamber, means for raising and lowering individual lockers through said spaces, and means for sealing each of said spaces regardless of the position of the locker cooperating therewith.

2,165,514
MAGNETIC SWITCH DEVICE
Ward L. Smith, Bedford, Ohio, assignor to The Electric Controller & Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application February 19, 1937, Serial No. 126,674
10 Claims. (Cl. 200—94)

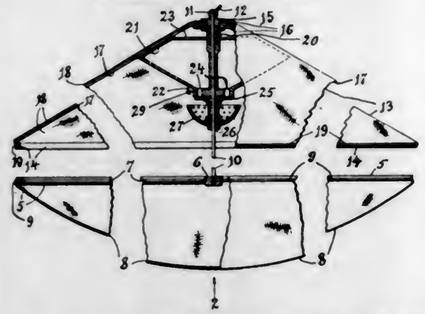


1. In an electro-magnetic circuit interrupter normally biased to a closed position, a main electro-magnetic means for opening the interrupter against the opposition of the biasing force, an auxiliary electro-magnetic means for resisting the opening of the interrupter, and means for simultaneously initiating excitation of both of said electro-magnetic means, said electro-magnetic means being variably related during said initial excitation in a manner such that the auxiliary electro-magnetic means is first stronger and then weaker than the main electro-magnetic means.

2,165,515
PRODUCTION OF AMINES BY THE CATALYTIC HYDROGENATION OF NITRILES
Willi Schmidt, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application May 5, 1937, Serial No. 140,889. In Germany May 18, 1933
16 Claims. (Cl. 260—583)

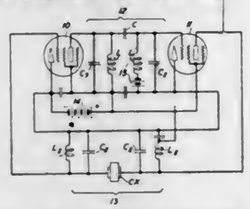
1. The process of producing amines corresponding to the formula $R—CH_2—NH_2$ which consists of causing a nitrile corresponding to the formula $R—C{\equiv}N$ wherein R is a member of the group consisting of aliphatic, aromatic, and aliphatic-aromatic residues with at least 5 carbon atoms free from hydroxy groups, to react with hydrogen in the presence of a catalyst comprising essentially cobalt.

2,165,516
MINNOW CATCHER
William Stein and Romaine Charles Price, New York, N. Y.
Application March 30, 1938, Serial No. 198,808
9 Claims. (Cl. 43—105)



1. A minnow catcher, comprising a net having a rising stem from which it may be suspended, a second net slidably mounted on said stem and adapted to close the first net, a bait receptacle between said nets and a float for said second net for maintaining it above the first, the buoyancy of said float being more than sufficient for the second net but insufficient for floating both nets.

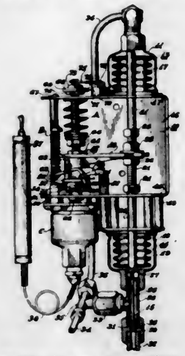
2,165,517
OSCILLATION GENERATOR
George H. Stevenson, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 28, 1938, Serial No. 216,212
14 Claims. (Cl. 250—36)



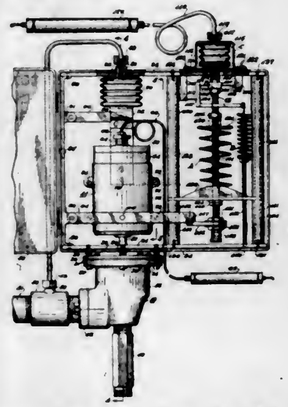
1. A vacuum tube oscillator circuit comprising amplifying means, a transmission path coupling the output and the input terminals of the amplifying means to form a closed feedback loop, and a plurality of reactance networks included in the feedback loop, each of said networks being proportioned to produce at a common assigned frequency a phase shift of 90 degrees which is stable with respect to variations of the network terminating impedances, and the networks together with the amplifying means producing a total phase shift in the feedback loop which is zero at the common assigned frequency.

2,165,518
CONTROL DEVICE FOR REFRIGERATING SYSTEMS
Rufus E. Stolz, East Cleveland, Ohio
Original application May 4, 1935, Serial No. 19,819. Divided and this application January 4, 1939, Serial No. 249,322
25 Claims. (Cl. 62—3)

1. The combination with a container for holding a liquid, of a discharge fluid pipe extending from the container, a valve for controlling the discharge of the fluid from the fluid pipe, evaporator means including an expansion valve for cooling the fluid contained in the discharge fluid pipe, said expansion valve being of the "breathing" type and also of the type limiting the frosting of the exit side of the evaporator, a control valve in series with the expansion valve for controlling the delivery of the refrigerant to the expansion valve of the evaporator means, and thermally actuated means influenced by the evaporator means for controlling the control valve, said control valve including snap-action means for quickly operating said control valve.



2,165,519
REFRIGERATING CONTROL DEVICE
Rufus E. Stolz, East Cleveland, and George V. Woodling, Lakewood, Ohio
Application November 23, 1935, Serial No. 51,294
14 Claims. (Cl. 62—3)



1. A device for controlling the flow of refrigerant to an evaporator having an entrance side and an exit side, comprising, in combination, a valve for controlling the flow of the refrigerant to the entrance side of the evaporator, means for adjustably setting the valve to adjust the pressure of the refrigerant entering the entrance side of the evaporator, second means for governing the valve in response to the variation of the temperature at a given portion of the exit side of the evaporator to limit the frosting of the exit side of the evaporator in the direction of the flow of the refrigerant, and third means for also controlling the valve to admit of an operating cycle of the flow of the refrigerant through the evap-

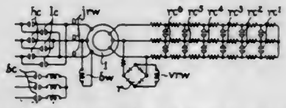
orator, in response to the variation of the temperature at a given portion intermediate the entrance and the exit side of the evaporator.

2,165,520
NONRUN HOSIERY
Frederick Elwood Struve, Philadelphia, Pa.
Application April 15, 1938, Serial No. 202,169
5 Claims. (Cl. 66—178)



1. A flat knitted fashioned non-run stocking comprising a leg and a foot, both entirely composed of non-run knitted fabric, said foot comprising six consecutively knitted portions, the first portion consisting of a predetermined number of courses, each extending the full width of the blank; the second portion consisting of a predetermined number of courses with stitches dropped at the end of every second course; the third portion consisting of a sufficient number of courses to give the desired length to the blank, each course extending the full width of the last course of said second portion; the fourth portion consisting of a predetermined number of courses with stitches dropped at the end of every fifth course; the fifth portion consisting of a predetermined number of courses with stitches dropped at the end of every second and fifth courses alternatively; and the sixth portion consisting of a predetermined number of courses with stitches dropped at the end of every other course.

2,165,521
ELECTRIC MOTOR CONTROL SYSTEM
John Russell Taylor, Bedford, England, assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application November 20, 1937, Serial No. 175,719
In Great Britain November 23, 1936
5 Claims. (Cl. 172—152)

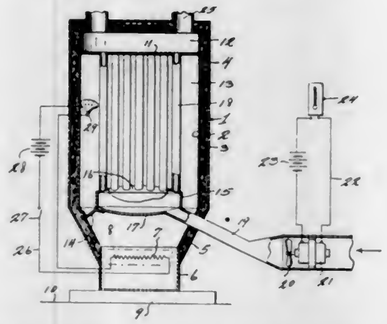


5. A control system for hoists and the like having an overhauling descending load, comprising an alternating current motor for driving the hoist, a brake for said motor which is normally set and is released upon energization of said motor, means for establishing reverse power connections for said motor, comprising a hoisting contactor and a lowering contactor, a master switch for controlling said contactors, having an off position, a running position and a plugging position between said off and running positions, means for closing said lowering contactor upon movement of said master switch from off position to running position and for opening said lowering contactor and closing said hoisting contactor upon movement of said master switch from running position to plugging position and means responsive upon a given reduction in the speed of said motor to effect opening of said hoisting contactor for stopping of said motor under the action of said brake.

2,165,522
INK AND THE MARKING OF TEXTILE MATERIALS
William Ivan Taylor and Leslie Brisbane Gibbins, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application April 2, 1937, Serial No. 134,524. In Great Britain April 18, 1936
8 Claims. (Cl. 134—34)

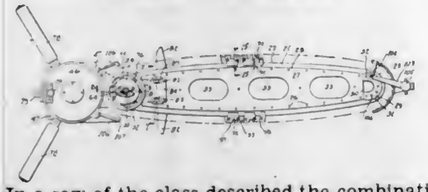
1. An ink for marking textile materials of an organic derivative of cellulose, consisting of a suspension of pigment in a liquid medium consisting of a mixture of about 95 to 85 parts by weight of an ester of a polyhydric alcohol with a lower fatty monocarboxylic acid with about 5 to 15 parts by weight of a polyhydric alcohol.

2,165,523
AIR HEATER
Alfon A. Wolf, Garrett, Ind.
Application April 17, 1937, Serial No. 137,589
1 Claim. (Cl. 219—39)



An air heater of the character described, comprising a drum structure having a top provided with heated air outlets, a partition wall secured transversely of said drum to form a heated air chamber in the upper part thereof which communicates with said outlets, said drum below said wall being completely closed against communication with the outside atmosphere and forming a heating chamber, a hollow air receiving body in the lower part of said chamber, an air conduit leading through the wall of the drum to and communicating with said hollow body for carrying air from the outside of the drum into said body, air conducting tubes forming air passageways between the hollow body and said casing, an electric heating unit within the lower part of said chamber beneath said body, an electric current conducting means for carrying electric current to said heating unit, and a combined thermostat-rheostat within said closed chamber and connected in series in said current conducting means for regulating the supply of electric current to said unit in accordance with the temperature within said closed chamber.

2,165,524
TIMBER CUTTER
Charles Wolf, Portland, Oreg.
Application July 13, 1937, Serial No. 153,361
1 Claim. (Cl. 143—32)

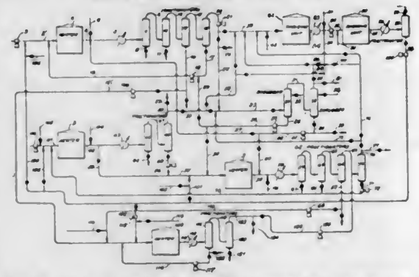


In a saw of the class described the combination of a driving unit, a slotted saw bar associated with said driving unit, means for clamping said saw bar to said driving unit, a chain disposed around said saw bar, guard arms disposed in a plane adjacent to the run of said chain and a breaker pin disposed between said driving unit and said chain whereby upon breakage of said chain the centrifugal force thereof whips the broken end of the chain into engagement with said guard thereby overloading the drive mechanism and causing a breakage of said pin.

2,165,525
PROCESS FOR INCREASING PLASTICITY OF POLYMERS OF SUBSTITUTED BUTADIENES
Mortimer A. Youker, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 27, 1937, Serial No. 176,821
7 Claims. (Cl. 260—36)

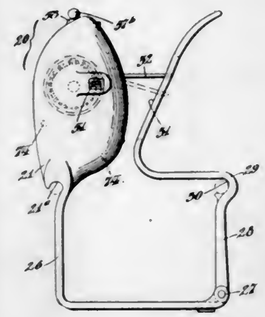
1. A method of increasing the plasticity of an elastic polymer of the group consisting of polymers of substituted butadienes of the formula $CH_2{=}CX{-}CR{=}CH_2$ in which X is a halogen atom and R is a hydrogen or a hydrocarbon radical, which comprises treating said polymer with an unsymmetrical substituted hydrazine compound of the group consisting of mono-aryl hydrazines, asymmetrical di-aryl hydrazines, salts of mono-aryl- and asymmetrical di-aryl hydrazines, and the condensation products of mono-aryl and asymmetrical di-aryl hydrazines with aldehydes and ketones.

2,165,526
CONVERSION OF HYDROCARBONS
Harold V. Atwell, White Plains, N. Y., assignor to Process Management Company, Inc., New York, N. Y., a corporation of Delaware
Application August 29, 1936, Serial No. 98,558
11 Claims. (Cl. 196—10)



1. In the conversion of normally gaseous hydrocarbons to hydrocarbons of different molecular weight, wherein said normally gaseous hydrocarbons are subjected to elevated temperature and the products therefrom are fractionated to separate material heavier than the desired final product from the products of conversion, the improvement which comprises fractionating the remaining products of conversion into a light naphtha fraction, a heavy naphtha fraction and normally gaseous hydrocarbons, separating a fraction predominating in methane from said normally gaseous hydrocarbons, subjecting said fraction to an oxidizing reaction to form oxygenated compounds, utilizing oxygenated compounds thus obtained for admixture with the normally gaseous hydrocarbons undergoing conversion and separate reaction with at least a part of the light naphtha fraction.

2,165,527
COUNTING DEVICE
Fred Autem, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application November 6, 1936, Serial No. 109,438
6 Claims. (Cl. 235—98)

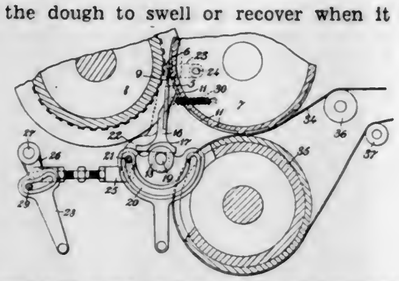


1. In a counting device, a rotatable element, a plurality of arms on said element each having an individual axis and arranged for limited movement relative to said element, a projection on each of said arms extending at right angles to the plane of rotation thereof, an abutment, and a spring for each arm to hold it normally to cause said projection to contact with said abutment, said abutment and arms arranged so that pressure on the arm held by the abutment in the direction to move said rotatable element in the proper direction releases said projection from the abutment.

2,165,528
ROTARY DOUGH MOLDING MACHINE FOR BISCUIT DOUGHS AND THE LIKE
George Ralph Baker and George Donald Wilson, Peterborough, England
Application October 25, 1937, Serial No. 170,948
In Great Britain October 27, 1936
6 Claims. (Cl. 107—8)

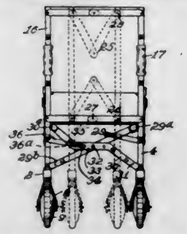
1. A rotary molding machine for biscuit doughs and the like comprising a molding roll and a co-operating pressure roll, a knife or scraper element having a dough dividing edge at each edge of a surface transverse to the nip of the rolls, one of said edges co-operating with the molding roll and the other with the pressure roll, the surfaces adjacent the rear of said dividing edges being cut away to afford clearance

to the dough to swell or recover when it has



passed said edges, and means for yieldingly forcing the knife toward the molding roll.

2,165,529
FOLDABLE CHAIR
John A. Barie, West Waterloo Township, Black Hawk County, Iowa
Application June 3, 1938, Serial No. 211,598
1 Claim. (Cl. 155—30)

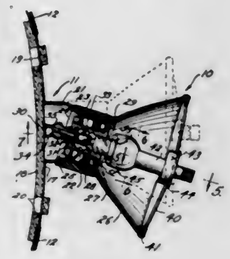


In a foldable chair, side supports, medially pivoted pairs of cross-members pivoted at their lower ends to the lower rear parts of said supports, a transversely foldable flexible seat member mounted on and across the upper ends of the cross-members, transversely spaced arms pivoted for forward and rear movements at their lower ends on the rear medial parts of the side supports, a transversely foldable flexible back-rest connected between said arms, means for collapsibly connectedly holding said arms apart when extended, transversely spaced arms having their rear ends swingingly connected to the forward side supports to extend forwardly, a transversely foldable leg-rest connected between said arms, a foot-rest composed of hingedly connected members pivoted to said arms and transversely foldable together when collapsed, and coacting arms on the foot-rest members and said arms, with means for locking their free ends together releasably when the foot-rest members are extended angularly relative to said arms.

2,165,530
FAT-HARDENING PROCESS
Simon Hendrik Bertram, The Hague, Netherlands, assignor, by mesne assignments, to N. V. Industrieele Exploitatie Maatschappij, The Hague, Netherlands
No Drawing. Application August 30, 1935, Serial No. 38,537. In the Netherlands September 5, 1934
10 Claims. (Cl. 260—398)

1. The method of converting the compounds of the group consisting of oleic acid, olein and their homologues into compounds which are solid at normal temperature and show a higher setting point, while molecular weight, iodine value and optical activity are practically not changed, which comprises heating the materials to be treated at least one hour to a temperaure ranging between 140 and 240° C. in the presence of a small quantity of a metal of the selenium group.

2,165,531
ELECTRIC LANTERN
Arthur B. Bertrand, Bokeelia, Fla., assignor to Burgess Battery Company, Chicago, Ill., a corporation of Wisconsin
Application July 1, 1937, Serial No. 151,367
10 Claims. (Cl. 240—59)



1. An electric lantern comprising a base, a hollow dome on said base and projecting forwardly therefrom, said dome having an opening therein, a universal joint comprising two co-operating members, one member of said joint being mounted in substantially fixed position on said base within said dome, and the other being movable and extending through said opening in said dome, said movable member of said universal joint carrying clamping members arranged on opposite sides of said dome, said clamping members being adapted to clamp and release said dome upon rotation of said movable member in opposite directions respectively, whereby said movable member may be clamped in various positions, a reflector mounted upon said movable member, an incandescent lamp mounted in said reflector, electric terminals in co-operative relation to said lamp, and supply conductors connected to said terminals, the members of said universal joint forming a portion of one of said supply conductors.

8. In an electric lantern having a closure lens having an opening therein, means for controlling an incandescent lamp comprising a stem member adapted to extend through said opening, and means for mounting an incandescent lamp upon an end of said stem member with the base terminal of said lamp projecting away from said member and transmitting rotary motion from said member to said lamp.

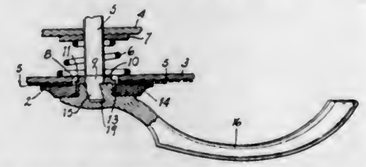
2,165,532
METHOD OF BLEACHING MINERAL MATTER
Frederick W. Binns, Quincy, Mass., assignor to Virginia Smelting Company, Portland, Maine, a corporation of Maine
No Drawing. Application April 19, 1935, Serial No. 17,276
13 Claims. (Cl. 252—8)

1. Method of treating mineral substances containing reducible coloring matter, comprising the steps of treating the same with a solution of a soluble hydrosulphite, and with a (weakly ionized) solution of an acid having a dissociation constant of approximately 2×10^{-4} or less.

2,165,533
PROCESS OF PREPARING PHENYLMERCURIC COMPOUNDS
Donald B. Bradner, Hamilton, Ohio, assignor to The Hamilton Laboratories, Inc., Hamilton, Ohio, a corporation of Delaware
No Drawing. Application April 11, 1936, Serial No. 73,936
6 Claims. (Cl. 260—433)

1. Process of preparing phenylmercuric salts in pure form, which comprises converting a phenylmercuric compound into a phenylmercuric halide, treating said phenylmercuric halide with a hot alkaline solution to give a hot concentrated solution of phenylmercuric hydroxide, separating this solution from insoluble material, cooling the solution, separating the solids which crystallize out, washing the solids to remove soluble material, extracting the solids to form a solution of phenylmercuric hydroxide and then treating the phenylmercuric hydroxide with an acid.

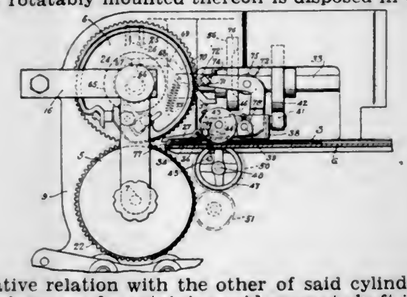
2,165,534
DOOR HANDLE
Fred Brown, Sylvania, Ohio, assignor to Doehler Die Casting Co., Toledo, Ohio, a corporation of Ohio
Application July 11, 1938, Serial No. 218,604
9 Claims. (Cl. 292—348)



1. A handle assembly for a door comprising an operating spindle extending through a panel in a door, a collar in axially slidable engagement with said spindle, said collar providing an annular recess surrounding the spindle, a coil spring surrounding the spindle and serving to urge the panel and collar outwardly, said spindle terminating in a tongue disposed angularly relative to the axis of the spindle, and a handle having a shank conforming in cross section with said annular recess and adapted to fit telescopingly therein, said shank having a recess therein disposed at an angle to the axis of the shank similar to the angular disposition of the tongue and engageable with said tongue to rotate the spindle, said collar being movable axially of the spindle against the force of said spring to permit engagement of the tongue and shank recess in a direction oblique to the spindle axis to effect alinement of the shank with the collar recess, release of the collar thereafter resulting in telescoping engagement of the shank and collar due to the expansive action of the spring.

2,165,535
PRINTING MACHINE
Horace R. Brownsey, Cleveland, Ohio, assignor, by mesne assignments, to Addressograph-Multigraph Corporation, Cleveland, Ohio, a corporation of Delaware
Application April 13, 1936, Serial No. 74,044
21 Claims. (Cl. 101—247)

8. In a printing couple, a pair of cylinders for making impressions on sheets fed therebetween, means interconnecting said cylinders for synchronic cyclic rotation, a support shaft including a journaled concentric bearing portion and an eccentric portion, one of said cylinders being mounted for rotation on said eccentric portion, a drive shaft, means for driving the interconnected cylinders from and in timed relation with said drive shaft, an arm connected to said concentric bearing portion, operating means including a spring acting on said arm to urge the support shaft into a position wherein the eccentric portion is disposed to position the cylinder mounted thereon out of operative relation with the other of said cylinders, cam means operating in timed relation with said drive shaft and operable on said operating means against the action of said spring to dispose the eccentric portion on said support shaft in a position wherein the cylinder rotatably mounted thereon is disposed in operative relation with the other of said cylinders, latch means for retaining said support shaft in a position into which it is moved against the action of said spring and operable to retain the cylinder on said support shaft in cooperating relation with the other of said cylinders, still other means including another cam operative in timed relation with the drive shaft, said other means being operable to render said latch means ineffective subsequent to the operation of the means for rotating said support shaft, and detecting means for preventing said other means from rendering said latch means ineffective upon cooperation of the detecting means with a sheet to be passed to said cylinders whereby the latch means is effective to retain said cylinders in cooperative relation with each other against the action of said yieldable means unless and until said other means are rendered effective in a subsequent cycle of operation.



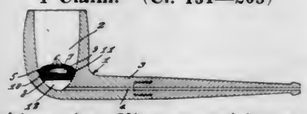
2,165,536
MINIATURE AIRPLANE WHEEL
Martin L. Chappell, Los Angeles, Calif.
Application July 30, 1937, Serial No. 156,538
3 Claims. (Cl. 152—29)



1. In a miniature airplane wheel, a hub, said hub comprising a pair of hollow members, each of said members including a frusto-conical cup shaped inner portion having a plane bottom thereon, said bottoms being in engagement, each member having a closure thereon, each of said closures having a flange engaging the outer portion of the cup shaped members, each of said

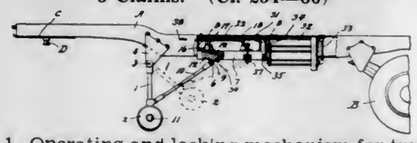
closures and said bottoms having an aperture therethrough, said apertures being in alignment, a tube extending through said apertures, said tube having its ends rolled over onto the outer surface of said closures, said cup shaped members forming a V-shaped groove in the periphery of the hub and a tire having a V-shaped inner periphery fitting said V-shaped groove.

2,165,537
PIPE FILTER
James B. Clyne, Chicago, Ill., assignor, by direct and mesne assignments, to Albert G. Apple, Chicago, Ill.
Application December 5, 1935, Serial No. 53,072
Renewed September 23, 1938
1 Claim. (Cl. 131—205)



A smoking pipe filter comprising a pervious filter element having an annular groove in the periphery thereof and a centrally disposed recess in the top thereof, a dome-shaped plate engaging the upper end of said element, said plate having openings therethrough, and a plurality of tongues integral with said plate and engaging in said groove to detachably secure said plate to said element.

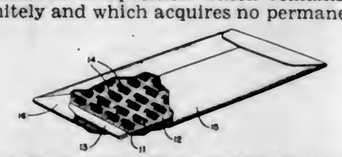
2,165,538
SUPPORT FOR TRAILER VEHICLES
George H. Connors, Edgerton, Wis., assignor to Highway Trailer Company, Edgerton, Wis., a corporation
Application April 25, 1938, Serial No. 204,157
5 Claims. (Cl. 254—86)



1. Operating and locking mechanism for trailer supports, comprising a trailer, a support movably mounted on the trailer, shifting means on the trailer to raise and lower said support and comprising a head, operating means for moving the head forwardly and rearwardly on the trailer to lower the support and raise it, respectively, said head having a lock portion thereon, lock pins supported adjacent to the head and adapted to engage said lock portion of the head when the support is adjusted to either its lowered position or its raised position, instrumentalities to disengage either lock pin cooperating with the lock portion aforesaid to release the head therefrom, detent means for holding the lock pins temporarily in positions out of engagement with the lock portion, and a member on the head for automatically incapacitating the detent means to restore the lock pins to their operating positions incident to movement of the head.

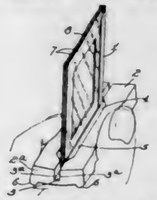
2,165,539
PACKAGE
Harold T. Dahlgren, Chicago, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application May 26, 1937, Serial No. 144,881
2 Claims. (Cl. 206—80)

1. A package for small metallic articles including a sheet having one side coated with a rubber base adhesive composition which remains tacky indefinitely and which acquires no permanent set,



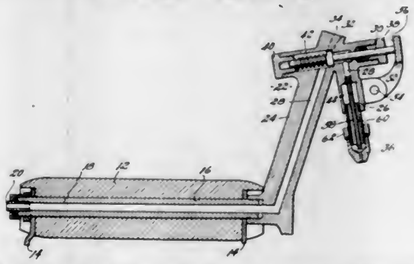
and metallic articles adhesively held by said coating free of each other and capable of being removed without adherence of any appreciable quantity of said coating thereto.

2,165,540
BINDING STRIP AFFIXING DEVICE
Albert W. Engel, Chicago, Ill.
Application May 9, 1938, Serial No. 206,930
9 Claims. (Cl. 216—61)



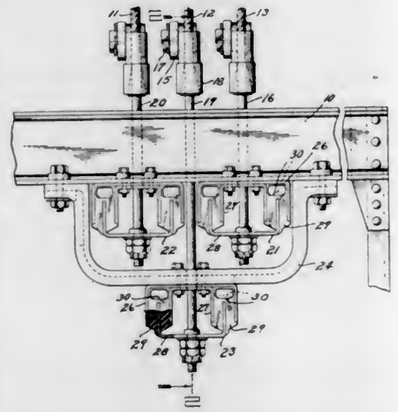
7. A binding strip affixing device including two sections spaced apart to form a groove, the width of said groove being approximately equal to the thickness of the material to be bound to permit insertion of the material with a binding strip, and said sections being connected by resilient means adapted to be bent for pressing the walls of the groove toward each other to secure the binding strip adhesively to the material.

2,165,541
SPRAY IRON
James D. Foster, Kansas City, Mo., assignor, by mesne assignments, to William J. Krebs and Edwin T. Chester
Application June 27, 1936, Serial No. 87,710
2 Claims. (Cl. 38—78)



1. In a spray iron of the character described, a sole plate and a grip provided with a longitudinal bore, a conduit extending through said bore; a water supply pipe in connection with one end of the conduit; an inverted V-shaped head, provided with a continuous passageway extending longitudinally through the legs thereof and having the end of one leg in connection with the other end of the conduit; a valve member intersecting the passageway at the bight of said head and having a portion thereof projecting exteriorly of the head; an operating lever for the valve member, pivotally mounted on the head and extending into close proximity to the grip for manipulation by the operator; a nozzle on the end of the other leg; and an air supply pipe in connection with the last mentioned leg between said nozzle and said valve to direct a constant stream of air through said nozzle as water is supplied to the nozzle through manipulation of the said valve, the last mentioned leg of said V-shaped head being shorter than the first mentioned leg whereby the nozzle on the end of the shorter leg is positioned above and forwardly of the grip of the iron.

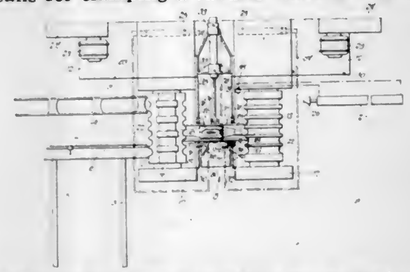
2,165,542
CABLE ATTACHING MEANS
Herbert C. Gaither, Detroit, Mich.
Application May 4, 1937, Serial No. 140,739
7 Claims. (Cl. 187—1)



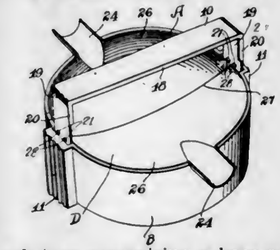
1. In a cable attaching device for a load to be lifted, a structural member secured to said load to be lifted having downwardly extending projections, a cable extension member projecting through said structural member, a second structural member secured to said cable extension member and positioned under said first mentioned structural member and having upwardly extending projections so spacedly positioned as to provide an interlock with the downwardly extending projections on said first mentioned structural member, and rubber blocks bonded to the surfaces of said spaced projections thereby affording a rubber mounting between said structural members subjected to shear for normally supporting said load to be lifted while said interlock provided by said spacedly positioned projections assures adequate secondary support of said load in case of failure of support from said rubber mounting.

2,165,543
ROLL FORGING MACHINE
Joseph H. Gettig, Buchanan, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application May 27, 1938, Serial No. 210,293
15 Claims. (Cl. 80—11)

1. A roll forging machine comprising laterally spaced pairs of skip rolls, a track therebetween, a carriage body movable on said track longitudinally between said rolls, a reciprocatory carriage in said body movable transversely thereof, and means for clamping a tubular blank in said carriage including means providing for limited rotation of said blank therein.

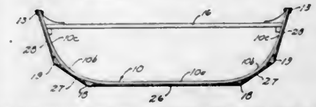


2,165,544
ASHTRAY
Robert E. Gordenier, St. Paul, Minn., assignor to Brown & Bigelow, St. Paul, Minn., a corporation of Minnesota
Application August 13, 1936, Serial No. 95,809
9 Claims. (Cl. 131—242)



1. An ash tray comprising a base ash receiving receptacle, tiltable tray covers for said ash receiving receptacle, a vertically reciprocable handle member directly pivoted to said tiltable tray covers to open the same by downward pressure, and spring means for automatically urging said handle member upwardly, allowing closure of said tray covers when pressure on said handle is released.

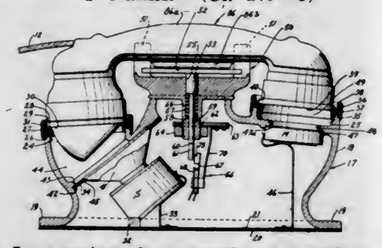
2,165,545
BOAT
Edmund G. Grant, Pasadena, Calif.
Application April 24, 1936, Serial No. 76,214
3 Claims. (Cl. 9—6)



1. A boat comprising a plurality of transversely extending substantially U-shaped, spaced, parallel ribs, gunwales engaging the upper ends of said ribs, a plurality of chines secured to said ribs in spaced relation and extending from the bow to stern, each of said chines including a base portion engaging said ribs, fastening means securing the base portion of the chines to the ribs, each of said chines having rabbets at each edge thereof, each of said rabbets including a base face and an edge face which are arranged at right angles to each other, the angle between the base faces of the rabbets of the chines being constant in all chines and constant throughout the length of the chines, and a plurality of planks of ply material engaging said chines, the outer edges of said planks engaging the edge faces of the chine

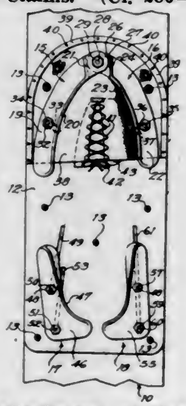
rabbets and the inner surface of the planks at the sides engaging the base faces of the rabbets, means to hold the planks on the chines and means to secure the ribs to the planks between the chines.

2,165,546
RECORDING SYSTEM FOR TELEPHONE CONVERSATIONS
Herman S. Heller, West Los Angeles, Calif.
Application November 8, 1937, Serial No. 173,302
4 Claims. (Cl. 179—6)



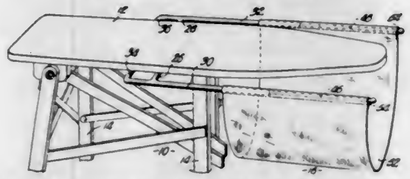
1. In a system for recording a telephone conversation, the combination, with a telephone instrument of a main telephone system, of an acoustic coupler comprising a microphone and speaker adapted to be acoustically coupled to the receiver and transmitter, respectively, of said telephone instrument, an auxiliary telephone instrument, having a receiver and a transmitter, electronic amplifier means for amplifying the telephone currents produced by the transmitter of said auxiliary telephone instrument and the microphone of the acoustic coupler, an amplifier output circuit carrying the amplified auxiliary telephone transmitter currents connected to the speaker of said acoustic coupler, another amplifier output circuit carrying the amplified coupler microphone currents connected to the receiver of the auxiliary telephone, and sound recording means having an input circuit associated with and receiving electrical energy from each of said amplifier output circuits.

2,165,547
FOOT ATTACHMENT FOR SKIS AND THE LIKE
Cortlandt T. Hill, Beverly Hills, Calif.
Application December 16, 1936, Serial No. 116,084
11 Claims. (Cl. 280—11.35)



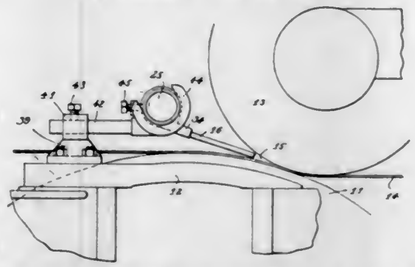
1. A foot-attachment of the class described, having: a forward foot-engaging means adjustable in width and a rearward heel-engaging means variable in width, said heel-engaging means being adjustable forward and backward and being constructed and arranged to automatically open to maximum width at its rearmost position and to close to minimum width at its foremost position.

2,165,548
CLOTHES SUPPORTING ATTACHMENT FOR IRONING BOARDS
Augusta F. Hipp, St. Joseph, Mo.
Application August 25, 1937, Serial No. 160,804
5 Claims. (Cl. 38—106)



4. In an ironing board having means whereby the board is supported in operative position above the floor; a pair of rotatable arms carried by said board for rotation through substantially 180 degrees in vertical planes respectively, adjacent opposite longitudinal edges of said board and transversely movable in a substantially horizontal plane, to and from a position directly therebelow; and an apron carried by said arms adapted to present a clothes supporting trough below said board.

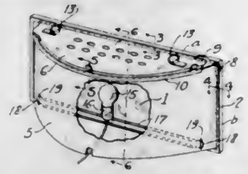
2,165,549
PAPER MACHINE SUCTION SLICE
Lloyd Hornbostel, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin
Application November 29, 1935, Serial No. 52,132
9 Claims. (Cl. 92—49)



7. A suction slice lip comprising a sheet of resilient material having a plurality of parallelly disposed channels extending from edge to edge thereof, and means on opposite sides of the sheet adjacent one edge providing gripping surfaces for holding the lip.

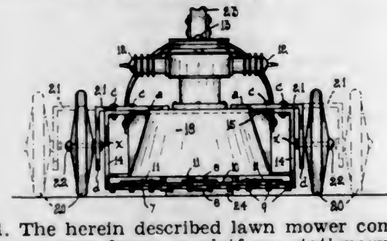
2,165,550
ILLUMINATED SIGN
James A. Howenstine, Lima, Ohio, assignor to Neon Products, Inc., Lima, Ohio, a corporation of Ohio
Application October 26, 1938, Serial No. 237,079
2 Claims. (Cl. 40—132)

1. An illuminated sign having a front member bearing matter to be displayed, a bendable back member releasably engaged at its ends by end portions of the front member and held thereby in outwardly bowed relation thereto, a top member releasably engaged to said front and back



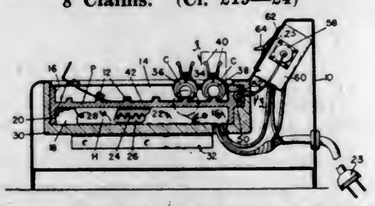
members and cooperating therewith to form a housing, a bar disposed within the lower portion of said housing and releasably engaged at its ends by said back member adjacent to its ends, and an illuminating means mounted on said bar.

2,165,551
LAWN MOWER
Christian Iverson, Weston, Iowa
Application September 22, 1938, Serial No. 231,198
5 Claims. (Cl. 56—25)



1. The herein described lawn mower comprising a mower frame, a platform stationary with the frame having a curved end-portion provided with horizontal relatively-parallel teeth, a vertically disposed rotatable power shaft journalled at its lower end in the platform, a cutter-disc carried by the shaft and having blades at its periphery closely adjacent to the teeth of the platform, a pair of ground-wheels at the sides and axially mounted on the mower-frame, and co-operating mechanism including L-shaped yokes on said wheels and frame for supporting said wheels in operative position at selected distances outwardly of the sides of the mower-frame.

2,165,552
PERMANENT WAVING APPARATUS
Anthon G. Johnson, Des Moines, Iowa
Application December 22, 1936, Serial No. 117,170
8 Claims. (Cl. 219—24)



7. In a permanent waving apparatus, a heated plate, a hair curling pad holder having jaws to grip a portion of said plate to receive heat therefrom and a removable thin metal cover for said plate and interposed between said portion of the plate and said jaws of said hair curling pad holder.

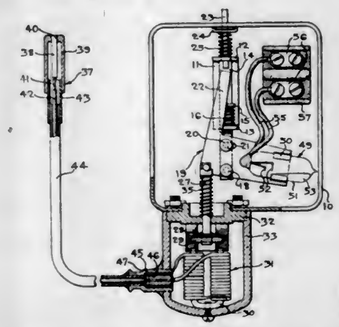
2,165,553
ALLOY STEEL
Daniel E. Krause and Clarence H. Lorig, Columbus, Ohio, assignors to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
No Drawing. Application September 7, 1937, Serial No. 162,695
5 Claims. (Cl. 75—125)

1. An alloy steel consisting of from 0.01% to 0.5% carbon, from 0.025% to 0.5% vanadium, from 0.08% to 0.5% phosphorus, from 0.2% to 1.5% manganese, copper in an amount not over 3%, and not over 0.20% sulphur, the balance being substantially all iron.

2,165,554
WHITE OPAQUE VITREOUS ENAMEL FRIT
Ignaz Kreidl, Vienna, Austria, assignor to the firm Vereinigte Chemische Fabriken Kreidl, Heller & Co. Nfg., Vienna, Germany, formerly Austria
No Drawing. Application November 24, 1931, Serial No. 577,164. Renewed December 5, 1936. In Austria December 10, 1930
3 Claims. (Cl. 106—36.2)

1. A vitreous enamel frit made from cryolite free raw materials containing silicates, borates, alkali metal compounds and fluorides, the latter being introduced into the raw mixture by means of a fluosilicate, so as to furnish about 10% to 12% fluorine by weight of the total weight of the said raw mixture, and the ratio of alkali (that is Na_2O or K_2O) to boric acid being substantially greater than 1½ parts of alkali to one part of boric acid, excluding the alkali content of the fluorine compounds, whereby the said frit is rendered suspendible in water with a minimum amount of clay addition and without excessive grinding.

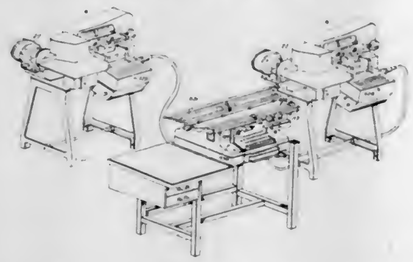
2,165,555
CONTROL DEVICE
Carl G. Kronmiller and Frederick D. Joesting, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 6, 1936, Serial No. 94,530
14 Claims. (Cl. 200—112)



1. In combination, a switch, a switch actuating member movable between first and second positions, and operative upon movement to said second position to move said switch between first and second positions without changing the circuit controlling position of said switch, selectively operable holding means, and means operative upon said holding means being effective and upon said actuating member being returned to said first position to move said switch from said second to a third and different circuit controlling

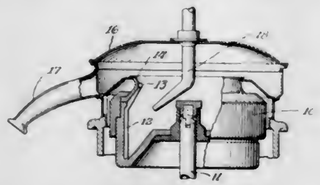
position, said third position being such that said actuating member is free to move between said first and second positions but is inoperative to cause movement of said switch.

2,165,556
ACCOUNTING SYSTEM AND MACHINE
William W. Lasker, Brooklyn, and Walter F. Kelley, Whitestone, N. Y., assignors to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application September 28, 1932, Serial No. 635,186
5 Claims. (Cl. 235—58)



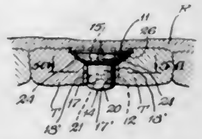
1. In a system of the class described, in combination, a typewriting machine having a traveling carriage, a perforator having a traveling carriage initally postionable in any of a plurality of positions, character inserting means in said typewriting machine, two groups of gag setting means in said perforator, key controlled means for operating said character inserting means and a group of said gag setting means, and means for controlling a special operation of said typewriter, for governing the transfer of said key controlled means to control another group of gag setting means, and for returning said perforator carriage to a predetermined one of said initial positions.

2,165,557
TREATMENT OF FRUITS AND VEGETABLES
Samuel Levison, Chicago, Ill.
Application September 23, 1938, Serial No. 231,402
9 Claims. (Cl. 146—219)
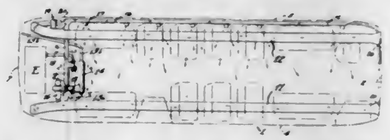


1. In a process for treating fruits of the character of raspberries, blackberries, and the like, the steps which include preliminary preparation of a pulp of said fruit and from which at least a substantial part of such coarse seeds and undesired insoluble materials which may have been present have been removed, and then subjecting said fruit pulp to centrifugal action in a bowl provided on its inner walls with generally vertically arranged vanes or ribs whereby dust, dirt, and other undesired constituents collect along the inner walls of said bowl and the desired fruit solids and juices are discharged from the bowl as the effluent.

2,165,558
DENTURE
Samuel E. Linchitz, New York, N. Y.
Application January 24, 1938, Serial No. 186,522
9 Claims. (Cl. 32—3)



1. In a denture, a rim adapted to be secured to a gum and having an opening, a tooth depending from said rim and including a concavity and a bore communicating with said concavity, a plate secured to said rim and having means communicating with said opening, and a suction device having a flange surrounding said opening and disposed in said concavity and having a reduced part slidably guided by the wall of said bore and normally projecting slightly below said tooth.

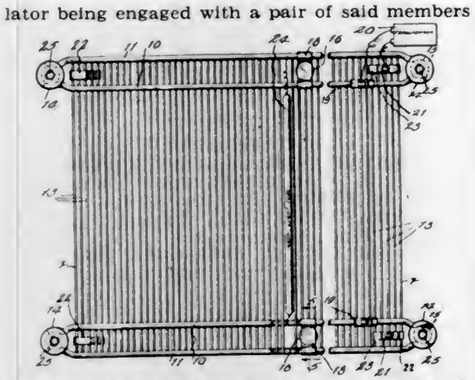
2,165,559
VEHICLE BODY VENTILATION SYSTEM AND APPARATUS
William Lintern, Cleveland, Ohio, assignor, by mesne assignments, to Evans Products Company, Detroit, Mich.
Application January 9, 1936, Serial No. 58,350
4 Claims. (Cl. 237—12.3)



1. In a vehicle body having a front wall including a transparent windshield, a top wall and side walls extending rearwardly therefrom, air injector means opening at the front wall above the windshield into the relatively onrushing outside air stream occasioned by forward movement of the vehicle body, a heater for the body, an air inlet duct connecting the injector means and heater, an air distribution duct leading from the heater and opening into the body, a second air inlet duct connected to the injector means and opening into the distribution duct beyond the heater, separate blowers for said inlet ducts, said blowers, having their respective inlets connected each to a different one of said inlet ducts one blower having its outlet connected with the heater, and the other blower having its outlet connected with the distribution conduit.

2,165,560
INSECT EXTERMINATOR
Martin P. Luther, Chicago, Ill.
Application January 18, 1937, Serial No. 121,065
5 Claims. (Cl. 43—112)

4. An electric insect exterminator comprising a pair of face-to-face grids, each grid embodying a series of parallel electrode rods, supporting bars arranged in pairs at opposite ends of and connected to said rods, each pair of bars having their end portions shaped in arcuate form with their concave portions facing each other to provide insulating receiving members, and insulators having annular seats in which the arcuate portions of said bars are disposed, each said insulator being engaged with a pair of said members



of each grid and thereby maintaining said grids in their spaced face-to-face relation.

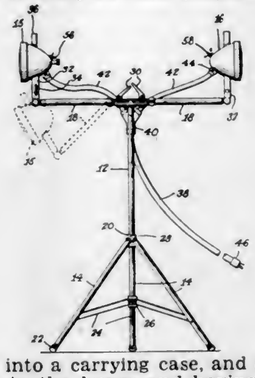
2,165,561
COMBINATION SHORTS AND SANITARY BELT
Harry Marcus, Minneapolis, Minn.
Application March 17, 1938, Serial No. 196,380
3 Claims. (Cl. 128—288)



1. An underwear garment in the nature of shorts comprising a pair of front wings of general triangular shape secured together at their inner edges to form a substantially diamond shaped front section, said front wings tapering to narrow width toward their lower ends, a pair of rear wings of general triangular shape secured together at their inner edges to form a substantially diamond shaped rear section, said rear wings also tapering to narrow width toward their lower ends, the lower ends of said front and rear wings being stitched together and the lower end portions of said front and rear wings combining to form a crotch strap, and a waist encircling belt to which the upper ends of said front and rear wings are secured, the length of said front and rear sections along the vertical center lines thereof from the waist encircling belt downwardly being shorter than the length of said front and rear sections from said waist belt downwardly laterally of said center lines to cause the inner side of said crotch strap to present a convex curvature transversely thereof.

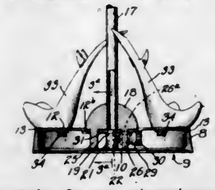
2,165,562
EMERGENCY LIGHTING KIT
Alfred Mack and Mary W. Mack, Framingham, Mass.
Application March 8, 1937, Serial No. 129,611
6 Claims. (Cl. 240—8.18)

1. An emergency lighting kit for use with a motor vehicle battery, comprising a supporting stand, two electric lamps, means mounting the lamps in oppositely disposed directions on the stand and including means for adjusting one of the lamps independently of the other whereby to direct the same to different positions, the stand together with said means and lamps being collapsible to compact form permitting packing



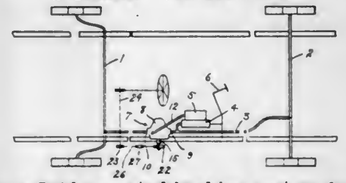
of the kit into a carrying case, and cable wiring connected to the lamps and having a terminal adapted to plug into a battery socket on a vehicle.

2,165,563
ELECTRIC LAMP
Frank N. Mariani, New York, N. Y.
Application February 26, 1938, Serial No. 192,751
5 Claims. (Cl. 240—81)



1. An electric lamp structure comprising a hollow base including a vertically arranged annular rim, an annular table rotatable relative to said rim and having an outer marginal portion disposed in superimposed relation to said rim, said table including an inner annular portion, a gear depending from said inner annular portion, a fixed closure for said table and seated on said inner annular portion, a depending support carried by said closure and disposed within said rim, a cable receiving vertical standard sustained by said closure, and a make and break switch carried by said depending support and having a rotatable member including gear means in mesh with said gear.

2,165,564
HYDRAULIC BRAKE
Clarence Paul Mayhew and George Peter Mayhew, Duluth, Minn.
Application August 16, 1937, Serial No. 159,236
2 Claims. (Cl. 188—152)



1. In a fluid operated braking system for vehicles including a fluid reservoir, a master cylinder operable by the brake lever of the vehicle, and fluid lines leading from the master cylinder to the wheel brakes, the combination therewith of a housing installed within the fluid line leading

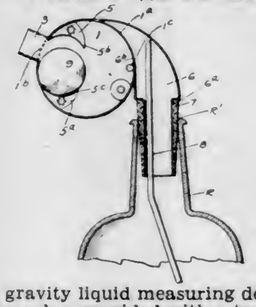
to the front wheel brakes, said housing having a tapered bore therein and a by-pass port communicating therewith, a tapered plug within said bore, and having a passageway therethrough optionally communicable with said by-pass, a fluid line from said housing to said reservoir, said plug being operable by steering mechanism of the vehicle to cause fluid in the line to the front wheel brakes to by-pass in said housing and fluid line therefrom to said reservoir when the steering mechanism is turned and the brakes applied said means also functioning to prevent seepage from said master cylinder to said reservoir.

2,165,565

GRAVITY LIQUID MEASURING DEVICE

Guy E. McConnell, Los Angeles, Calif.

Application February 7, 1938, Serial No. 189,185
8 Claims. (Cl. 221—147)



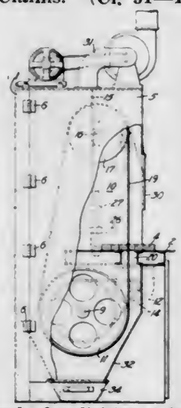
1. In a gravity liquid measuring device, a tubular inlet member provided with a tapered portion adapted to fit snugly in a receptacle outlet opening, a measuring casing communicating with the one side thereof in offset relation therewith provided with an outlet opening in the opposite side from said tubular inlet and a gravity actuated valve member mounted in said casing adapted to gravitate over and off of said measuring casing outlet opening with the various tilting of said receptacle.

2,165,566

APPARATUS AND METHOD FOR GRINDING AND POLISHING BORE HOLES

Edgar T. Meakin, San Francisco, Calif.

Application July 13, 1935, Serial No. 31,241
In Great Britain November 27, 1934
7 Claims. (Cl. 51—135)



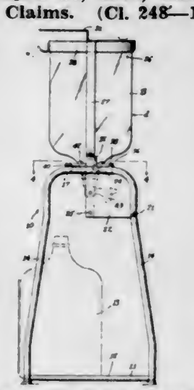
1. The method of polishing a bore hole, which comprises continuously passing a cord through said hole while building up on said passing cord an adhesive coating until the periphery thereof conforms to that of the hole, and feeding an abrasive to the periphery of the built-up cord as it passes through said hole.

2,165,567

MOVABLE HOLDING DEVICE FOR CONTAINERS

Albert S. Moffat, Watertown, Mass., assignor to United Water Cooler Service, Inc., Cambridge, Mass., a corporation

Application April 27, 1937, Serial No. 139,173
8 Claims. (Cl. 248—140)



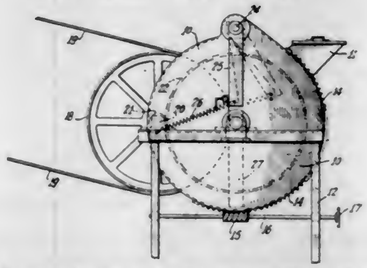
8. A holding device for a container, comprising a frame, a holder adapted to receive a container and means to secure the container in the holder, said holder including an end member, two upright members secured at one end to said end member and being pivoted at their other ends to said frame to swing in a vertical plane, and a cross bar extending between and secured to said upright members intermediate their ends, said means including two arms pivoted at one end to said cross bar to move laterally, and a fastener pivoted to the free end of one of said arms whereby one end portion of said container may be secured between the arms.

2,165,568

MIXING DEVICE

Frank J. Muench, Newark, N. J.

Application December 1, 1937, Serial No. 177,403
2 Claims. (Cl. 259—109)



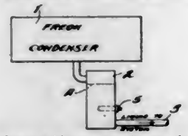
1. A mixing device which comprises a casing, a rotary shaft therein, a plurality of blades fixed on said rotary shaft, an auxiliary shaft supported in the casing, a plurality of blades on said auxiliary shaft having their ends pointed and bent at right angles toward the direction of movement of the material in the casing to the blades, and means on the outside of the casing and connected to the auxiliary shaft to cause the blades mounted thereon to yield in an oscillatory manner when undue material resistance is encountered.

2,165,569

SAFETY SYSTEM

John A. Obermaier, Chicago, Ill.

Application October 3, 1935, Serial No. 43,394
7 Claims. (Cl. 62—1)



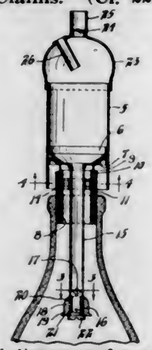
1. In a refrigerating system including a receiver for liquid refrigerant and of the type wherein the liquid level in the receiver increases and decreases at different times in the normal operation of the system, means for detecting a loss of refrigerant such as results in a substantial change in the average level of the refrigerant in the receiver, said means comprising a hollow mass of material at the level where changes are to be detected, an electric resistance heater in said mass, means for electrically heating the resistance to supply heat to the mass as a substantially fixed rate, whereby the temperature rise of the mass is determined by the heat conductivity of the ambient medium, and means for detecting a temperature change in the mass resulting from a change in heat conductivity of the ambient medium as the refrigerant level changes an amount to change the character of the medium surrounding the mass, the amount of material in the mass being correlated with the rate at which heat is introduced therein by the heater and dissipated therefrom so as to produce a time lag following a change in liquid level such as results in a change in the ambient medium around the mass before the temperature change reaches a value sufficient to be detected by the temperature change detecting means, said lag being greater than the minimum time interval between variations of the liquid level in the receiver during normal operations of the system.

2,165,570

LIQUID DISPENSER

John Olson and Harry E. Dahlstrom, Minneapolis, Minn.

Application April 2, 1938, Serial No. 199,677
4 Claims. (Cl. 221—98)



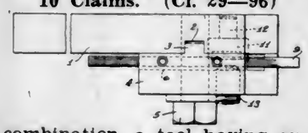
1. In a liquid dispenser for containers, a chamber adapted to be supported in communication with the dispensing opening of a container, a piston movable in said chamber, a slidable hollow piston rod secured at its outer end to one side of said piston and communicating with the other side of said piston, said rod having a restricted opening and an enlarged opening in an end thereof, and valve means associated with said rod for closing one or the other of said openings.

2,165,571

CUTTING TOOL AND HOLDER

Herman A. Ortegren, Detroit, Mich., assignor to Bower Roller Bearing Company, Detroit, Mich., a corporation of Michigan

Application January 12, 1938, Serial No. 184,625
10 Claims. (Cl. 29—96)



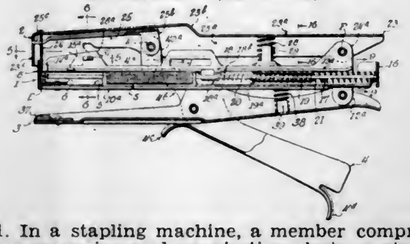
1. In combination, a tool having an abutting surface and a tool holder having a resting surface adapted when engaged to locate the tool relative to the holder, said tool having one side extending obliquely relative to its abutting surface, said holder having a bearing surface extending obliquely relative to its resting surface, and a clamping element carried by said holder and engaging the other side of said tool and exerting pressure to cause engagement between said oblique surfaces, said oblique surfaces being disposed whereby they function in the presence of pressure exerted by said clamping element to force said resting and abutting surfaces into firm contact.

2,165,572

STAPLING DEVICE

William G. Pankonin, Chicago, Ill.

Application October 31, 1935, Serial No. 47,596
Renewed August 31, 1938
27 Claims. (Cl. 1—49)



1. In a stapling machine, a member comprising a magazine and an ejection chute, a staple driver arm pivotally mounted on and movable towards said member for driving staples from said magazine and through said ejection chute, a staple clincher arm pivotally mounted on and movable towards said member to engage therebetween material to be stapled, a force multiplying lever pivotally mounted upon one of said arms, and means whereby the force multiplying effect of said lever cooperatively reacts on both of said arms.

2,165,573

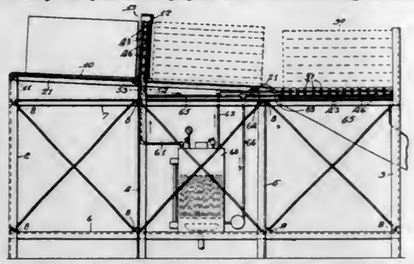
METHOD OF AND APPARATUS FOR CUBING ICE

William Carl Pfeil, Chicago, Ill.

Application September 8, 1938, Serial No. 228,895
20 Claims. (Cl. 62—112)

1. In an ice cutting machine, the combination of a frame, a table carried by said frame and ar-

ranged for feeding a cake of ice forwardly, a grid interposed in the normal path of travel of such cake of ice and substantially perpendicular to such path, said grid comprising a plurality of parallel pipes for conducting a heating medium therethrough to divide such cake into a set of superimposed slabs, a second grid including a plurality of parallel pipes for conducting a heat-



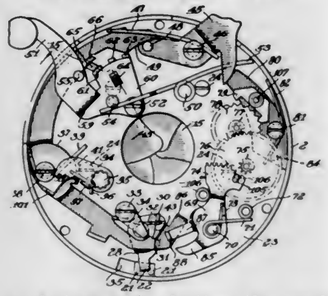
ing medium therethrough and arranged to receive said set of slabs and convert the same into a plurality of ice cubes, each of said grids including a frame, and means for resiliently supporting the respective parallel pipes of the grid by the frame thereof to compensate for expansion caused by heating and for bowing caused by the weight or pressure of the ice against the grids.

2,165,574

PHOTOGRAPHIC SHUTTER

Friedrich A. Gustav Pirwitz, Rochester, N. Y., assignor to Wollensak Optical Company, Rochester, N. Y., a corporation of New York

Application January 14, 1938, Serial No. 185,023
20 Claims. (Cl. 95—63)



1. In a photographic shutter, the combination with a master operating member that is operable to effect movement of the shutter for a time, bulb, or instantaneous exposure, of a one-piece trigger, cooperating means between the master operating member and trigger comprising a plurality of integral fingers on one of said elements and a series of integral stops on the other of said elements, said stops cooperating selectively with one of the fingers and the other of said fingers cooperating with one of the stops during time or bulb exposures, and means engageable with the trigger for adjusting and retaining it in selected initial position.

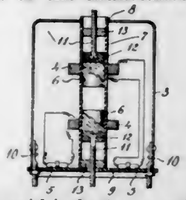
2,165,575

HIGH-FREQUENCY COUPLING DEVICE

Wladimir J. Polydoroff, Wilmette, Ill., assignor to Johnson Laboratories, Inc., Chicago, Ill., a corporation of Illinois

Application June 3, 1937, Serial No. 146,241
7 Claims. (Cl. 178—44)

1. A high-frequency coupling device for operation at a predetermined frequency comprising a pair of coupled resonant circuits each including a fixed capacitor and an inductance coil adjustable as to its inductance value by a movable ferromagnetic core, the selectivity of each of said circuits at said predetermined frequency varying with adjustment of the inductance therein, the



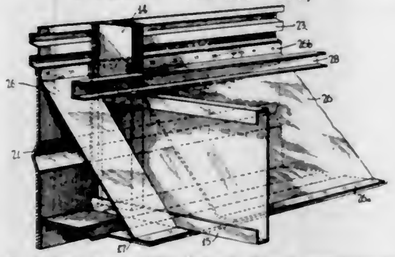
spacing between said inductance coils being such that when said cores are adjusted each to produce minimum inductance in its associated circuit the coupling between said circuits has a desired maximum value, the adjustment of either of said cores away from the other of said cores increasing the inductance value in the associated circuit and simultaneously decreasing the coupling between said circuits.

2,165,576

VEHICLE BODY

Earl J. W. Ragsdale, Norristown, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 6, 1937, Serial No. 141,009
6 Claims. (Cl. 105—397)



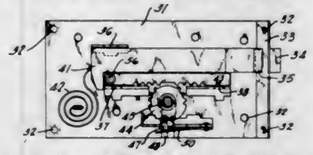
1. A truss type side frame for a vehicle body having a lower chord of hollow right triangular cross section, the legs of the cross section forming the outer face of the body and providing wide faces extending, respectively, vertically and horizontally for overlapping securement respectively to posts and floor beams, the hypothenuse of the triangular cross section being interrupted for the passage of floor beams and posts.

2,165,577

DOOR LOCKING MECHANISM

Arthur F. Pruner, Oklahoma City, Okla.

Application March 7, 1936, Serial No. 67,600
13 Claims. (Cl. 292—172)



2. In a device of the class described: an inside door handle; an outside door handle; a handle shaft for each handle; a slidable door bolt; a pinion on the inside handle shaft; and a toothed bar adapted to be moved in either direction by the rotation of said pinion, and adapted to move said door bolt when the bar moves in one direction, and to initiate movement of said outer door handle into an inaccessible position between the door walls when said bar moves in the opposite direction.

2,165,578

HYDROUS SILICATE GEL AND METHOD OF MAKING THE SAME

Ernest Wayne Rembert, Plainfield, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

No Drawing. Application April 29, 1935,
Serial No. 18,885
4 Claims. (Cl. 23—110)

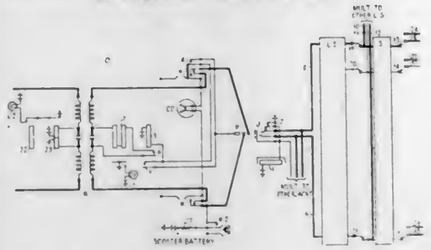
1. In a process of producing insoluble silicates, the steps of disseminating a slightly soluble compound of amphoteric metal in an aqueous medium, and slowly adding a soluble silicate to such medium in amount suitable to precipitate a simple silicate of the amphoteric metal and at a rate adapted to maintain a soluble silicate concentration in such medium during reaction below the concentration at which an insoluble silicate is formed of a dense granular structure having a relatively low adsorption efficiency, the said rate being such that the time consumed in adding the soluble silicate is of the order of at least one-half hour.

2,165,579

TELEPHONE SYSTEM

Norman H. Saunders, Homewood, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application January 14, 1937, Serial No. 120,507
22 Claims. (Cl. 179—27)



1. In a telephone system, subscribers' lines, means for making any of said lines busy, an operator's switchboard, automatic switches, operator controlled means for operating said switches to extend a connection to one of said busy lines, a booster battery, operator controlled means for connecting said booster battery to said connection, and means at one of the switches responsive to the connection of said booster battery for completing a talking connection with said busy line.

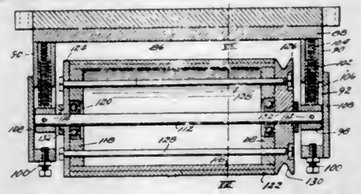
2,165,580

AIR CIRCULATING SYSTEM FOR ROLLING STOCK

Edward L. Scheufler, Kansas City, Mo.

Application July 11, 1936, Serial No. 90,199
3 Claims. (Cl. 74—13)

1. In a railway car provided with trucks having wheels to carry the car, said trucks being pivotally connected to the car at its longitudinal center for movement relative to the car structure, a power take-off unit comprising a bracket carried by the car floor; bearings slidably mounted on the bracket for movement toward and from one of said trucks; a roller journalled in the bearings, over one of the wheels of the truck and to one side of the longitudinal center of the car; and springs engaging the bearings to yieldably maintain the roller in driving connection with the said



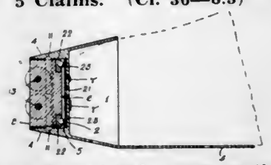
one wheel, said roller being appreciably longer than the width of the underlying wheel and in contact with the periphery of the wheel at the uppermost portion thereof whereby a point contact is established between the roller and wheel which is maintained as the truck turns about the pivotal connection with the car.

2,165,581

TOECAP FOR TOE DANCING SHOES

Carl Schroeder, Cleveland, Ohio

Application October 22, 1938, Serial No. 236,505
5 Claims. (Cl. 36—8.3)



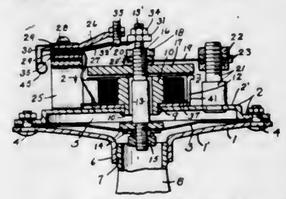
1. A device adapted to be worn on the toe of a shoe for toe dancing, comprising an element having a substantially flat surface so positioned as to engage a floor when toe dancing, an opening in such surface, and a round element rotatably mounted in such opening on a bearing with the curved surface of said last named element extending beyond said surface.

2,165,582

ELECTROMAGNETIC MOTOR FOR WARNING SIGNALS AND THE LIKE

Theodore J. Scofield, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a corporation of Ohio

Application July 19, 1937, Serial No. 154,429
1 Claim. (Cl. 172—126)



In an electro-magnetic motor for a warning signal or the like, the combination with a core, an armature therefor and an automatic circuit breaker connected in the motor circuit and adapted to be actuated by the armature for effecting intermittent energizing and de-energizing of the core, of a field coil for the motor composed of a plurality of turns of a thin, flat strip of copper surrounding said core, and a

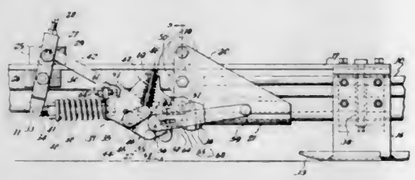
plurality of turns of a thin, flat strip of insulating material arranged intermediate the turns of the copper strip for insulating successive turns of the copper strip from each other, the end of the copper strip at the outer end of the coil being electrically connected with the circuit breaker, the other end of said copper strip at the inner end of the coil being directly connected to the core of the motor in electrical contact therewith, said insulating strip being omitted for at least one turn of said copper strip at said inner end of the coil to provide the copper strip with an uninsulated portion and said portion being in direct electrical contact with the core to thereby form a copper shield surrounding the core whereby the speed of collapse of the magnetic field when the circuit is broken by said circuit breaker is reduced to cut down arcing.

2,165,583

FEEDING MECHANISM FOR SHAKER OR JIGGING CONVEYERS

William W. Sloane, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application October 3, 1936, Serial No. 103,825
Renewed September 3, 1938
13 Claims. (Cl. 198—220)



1. In a reciprocating conveyer, a conveyer trough section, an extensible trough section, means for extending or retracting said extensible trough section with respect to said conveyer trough section comprising a clamping device, means for oscillating said clamping device into and out of clamping position with respect to said extensible trough section, and a bracket pivotally connected to said conveyer trough section for movement in a vertical plane, said bracket having said means for oscillating said clamping device into and out of clamping position mounted thereon and also having said clamping device mounted thereon and disposed in advance thereof for bodily movement therewith.

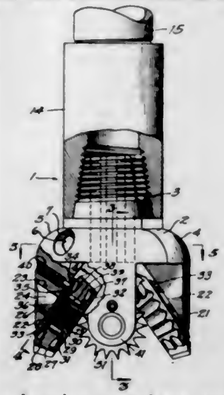
2,165,584

ROLLER BIT

Herman C. Smith, Whittier, and John T. Phipps, Huntington Park, Calif.; said Phipps assignor to said Smith

Original application July 22, 1936, Serial No. 91,830. Divided and this application June 21, 1937, Serial No. 149,339
4 Claims. (Cl. 255—71)

1. In a bit of the class disclosed, a body provided with a depending leg, a trunnion fitted in and secured to said leg and provided with a threaded zone, a bearing member provided with a threaded shank in threaded engagement with the threads of said trunnion, an annular cutter disc, a second bearing member carried on the shank of the first bearing member, said annular cutter disc being interposed between said bearing members, and anti-friction means interposed



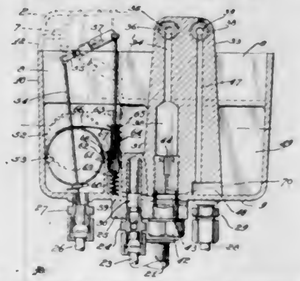
between the bearing members and said cutter disc.

2,165,585

AUTOMATIC FEEDING DEVICE FOR LIQUID FUEL AND THE LIKE

Thomas F. Spackman, River Grove, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application November 12, 1936, Serial No. 110,548
5 Claims. (Cl. 103—26)



1. In a liquid feeding device, a pump, an electric motor connected to drive the pump, a chamber into which the pump delivers the liquid, a float in the chamber responsive to changes of liquid level therein, and an electric switch for the motor connected for actuation by said float, a suction line leading to the pump and a vent passage from said line having an opening in the chamber but normally submerged by the liquid therein, an extension tube for said vent, normally disconnected therefrom and means actuated by the descent of the float below its normal lower limit serving to connect the extension to the vent for shifting the effective vent opening to a higher level.

2,165,586

CARPET CLEANING COMPOSITION

Clair W. Studer and Roy G. Roshong, North Canton, and Marie Miller, Aultman, Ohio, assignors to The Hoover Company, North Canton, Ohio, a corporation of Ohio

No Drawing. Application January 13, 1936, Serial No. 58,872
1 Claim. (Cl. 87—5)

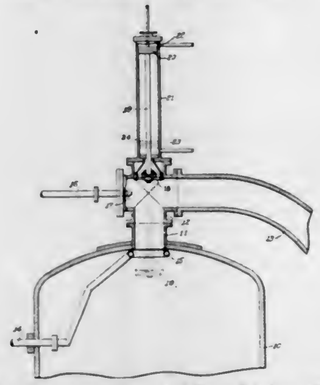
A carpet cleaning composition consisting of a mixture of the following ingredients in substantially the following amounts by weight: buckwheat flour 100 pounds, a light petroleum cleaning oil—24 pounds, a water-insoluble soap having a stearic acid base—2 pounds, salicyclic acid—2 pounds, and water—60 pounds.

2,165,587

CRACKING HYDROCARBON OILS

Perry J. Sweeny, Dickinson, Tex., assignor to Pan American Refining Corporation, New York, N. Y., a corporation of Delaware

Application May 18, 1937, Serial No. 143,257
3 Claims. (Cl. 196—58)



1. In the art of cracking hydrocarbon oils wherein a heated condensate stock is introduced into a reaction chamber in which a body of oil vapors is maintained at cracking temperature and from which vapors are withdrawn at a cracking temperature from the upper portion thereof through a vapor line of restricted cross sectional area, the method of inhibiting coke deposition in the vapor line which comprises introducing into the hot vapors passing from the reaction chamber at a point immediately adjacent the entrance to the vapor line a heavy oil stock of the nature of reduced crude, comprising unvaporizable constituents and approximating in quantity in a given unit of time 5% to 7% of the amount of the condensate stock introduced to the reaction chamber in the same unit of time and immediately thereafter introducing into the resultant stream of cooled products in the vapor line a vaporizable stock in quantity sufficient to further reduce the temperature of the products flowing through the vapor line but in insufficient quantity to reduce the temperature below a cracking temperature.

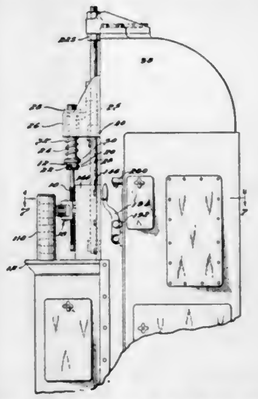
2,165,588

BROACHING MACHINE

Richard A. Thompson, Detroit, Mich., assignor to Colonial Broach Company, a corporation of Michigan

Application January 24, 1936, Serial No. 60,624
12 Claims. (Cl. 90—33)

10. A broaching machine for operating a broach comprising in combination, a broach head disposed to engage the broach and move it from a starting position in one direction through a working stroke and adapted to release the broach at the conclusion of such stroke; operating means for causing said broach head to move through said working stroke and to return to said starting position; and return mechanism for returning said broach to said starting position at the conclusion of said working stroke, said return mechanism including means to displace the broach from the path followed thereby during said working stroke to a second path and for moving said



broach along a second path to said starting position.

2,165,589

VULCANIZED RUBBER COMPOSITIONS

Henry B. Townsend, Belmont, Mass., assignor to Vultex Chemical Company, Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application August 9, 1937, Serial No. 158,142
6 Claims. (Cl. 134—17)

1. A composition of matter substantially free of the balata hydrocarbon and comprising vulcanized rubber latex, and fluavil substantially unchanged by interaction with sulfur.

2,165,590

COIN-FREED CONTROL

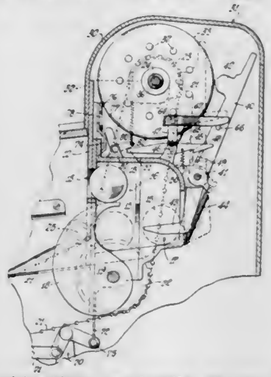
Walter A. Tratsch and William Patzer, Chicago, Ill.

Application March 20, 1937. Serial No. 132,070
2 Claims. (Cl. 194—93)



1. In a dispensing mechanism, a shiftable series of contiguous blocks and operating levers movable in between adjoining blocks to shift one or more of the same in a particular direction away from a normal position, spring means urging a first block toward the others to move the latter into said normal position, spring means urging the other end block toward the others for movement of the same toward said first block, the intervening blocks each having opposite ends one of which is provided with a horizontal ledge and the other of which is provided with a cam edge, the ledge of one block being contiguous to the cam of the next, said contiguous portions each underlying the corresponding operating lever, said cam edges being arranged to effect shifting movement of the corresponding block by the corresponding control lever a predetermined amount before said control lever can engage the adjoining ledge portion, and coin-operated means arranged normally to prevent movement of said blocks.

2,165,591
TARGET APPARATUS
Walter A. Tratsch, Chicago, Ill.
Application July 19, 1938, Serial No. 220,055
10 Claims. (Cl. 273—102.1)

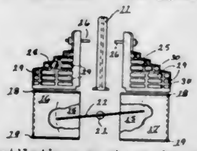


1. In combination, projectile shooting means, score indicating mechanism including a plurality of movable indicating members and driven means common to said members for moving the same, each of said members being arranged and constructed to be stopped without affecting the movement of the others, a plurality of targets arranged to be selectively struck by a said projectile, and means coacting with said targets for selectively stopping said indicating members when one of the targets is struck.

2,165,592
FERTILIZER AND METHOD OF MAKING SAME
Lewis Treeland, Kansas City, Kans.
No Drawing. Application June 21, 1937, Serial No. 149,438
4 Claims. (Cl. 71—24)

1. A fertilizer comprising absorbent granules impregnated with sulphate of ammonia and muriate of potash and coated with a mixture of substantially 90% of mineral black and 10% of carbon black, used in an amount approximately 4% of the weight of the material being coated intermixed with a mixture of super phosphate and black loam soil.

2,165,593
VENTILATING SYSTEM
James M. Ver Meulen and Glen Bucher, Grand Rapids, Mich., assignors to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application January 27, 1936, Serial No. 60,957
11 Claims. (Cl. 98—40)



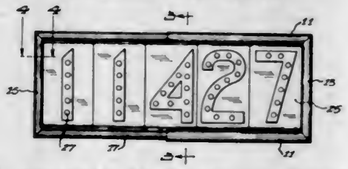
1. In a ventilating system for theatres or the like, the combination of a chair standard secured to the theatre floor, a plenum chamber flue thereunder, and a hood over said flue comprising complementary sections disposed on opposite sides of said chair standard, said sections each having side walls provided with a plurality of openings therethrough, and a vertical series of baffles disposed substantially transversely of the side walls of the hood sections.

2,165,594
AUTOMOBILE BODY CONSTRUCTION
Charles L. Waterhouse, Jr., Dearborn, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 31, 1938, Serial No. 187,850
7 Claims. (Cl. 296—44)



1. In a closed automobile body having an opening to be closed by a door and defined in part by body posts and a header, a swinging door structure terminating at about the belt line of the body for closing the lower portion of the opening, a frame carried by and projecting above the door structure and having a shape corresponding substantially to the shape of the opening defined by the posts and header above the door structure, a window panel adjustable for opening and closing the opening defined by the frame, and a garnish molding including portions fixedly secured to the posts and header of the body and within the opening and a portion fixedly secured to the door structure along the top of the door structure, said portions arranged to come into substantial alignment when the door is closed.

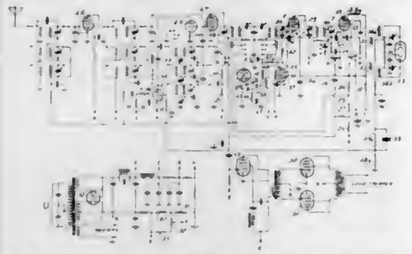
2,165,595
ADJUSTABLE HOLDER AND SIGN
John Weinhart, Detroit, Mich.
Application November 16, 1938, Serial No. 240,751
6 Claims. (Cl. 40—64)



6. A changeable sign holder for receiving and exhibiting character plates comprising, two resilient telescopically engaging frame sections, the side and end members of said frame sections being of a substantially closed tubular conformation flattened or non-circular in cross-section having a slot opening toward the inside of the frame, a center plate disposed in each frame section with its edges in the inwardly opening slots for sliding together in overlapping relation as said frame sections telescope together, and prongs deformed out of one end of each center plate and curled to extend laterally from the plate and back for engaging the inside surface of a respective one of the end frame members for securing the center plate in a proper position therein.

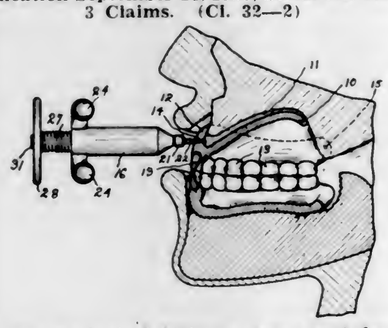
2,165,596
AUTOMATIC REGULATION IN RADIO RECEIVERS
Sidney Y. White, Chicago, Ill., assignor to Victor S. Johnson, Chicago, Ill.
Application July 22, 1936, Serial No. 91,945
20 Claims. (Cl. 250—20)

12. A radio receiver including in combination, tuning means for tuning said receiver over a range of frequencies, resonance adjusting means for automatically bringing said receiver into substantially exact resonance with a high-frequency signal selected by setting said tuning means between limits above and below the set-



ting which corresponds to exact resonance with said signal, and means connected to and actuated by said resonance adjusting means for causing immediate release of said signal as said tuning means is adjusted from a point within said limits to a point outside said limits.

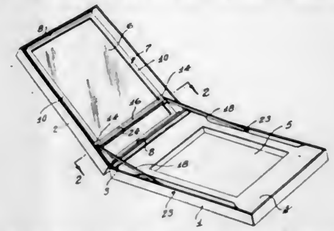
2,165,597
METHOD FOR FORMING DENTURES
Frederick Widoe, Sr., Omaha, Nebr.
Application September 14, 1936, Serial No. 100,606
3 Claims. (Cl. 32—2)



3. The method of fitting a permanent denture plate which includes the initial formation of the plate in a manner whereby appreciable hollows or spaces will be disposed between certain portions of the plate and confronting portions of the mouth, providing a plurality of apertures through said plate, inserting an initially plastic denture composition capable of permanent adherence to the initial plate formation between the plate and the confronting portions of the mouth in a quantity sufficient to fill up said hollows or spaces while said plate is in applied position, and injecting a quantity of said composition through one of said apertures into hollows between the plate and the confronting portions of the mouth.

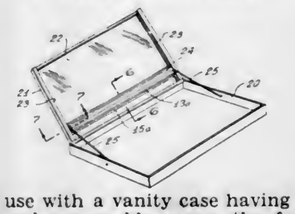
2,165,598
VANITY CASE
Floyd M. Williamson, Detroit, Mich.
Application September 29, 1937, Serial No. 166,391
20 Claims. (Cl. 132—8.3)

1. A vanity case composed of two parts relatively movable to open and closed positions, one of said parts containing a mirror and the other being adapted to contain cosmetics or the like, a wiper, means in the mirror part supporting said wiper for movement across the face of said mirror, means connected to the cosmetic part for actuating said wiper automatically incident to opening and closing movement of said parts, and means connecting said last named means to the



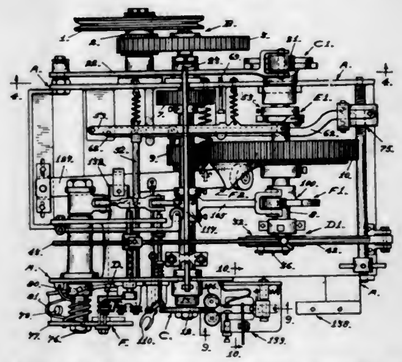
wiper whereby the wiper is pressed more firmly into contact with the mirror during opening movement than during closing movement of the parts.

2,165,599
WIPER FOR VANITY CASE MIRRORS
Floyd M. Williamson, Detroit, Mich.
Application October 14, 1937, Serial No. 168,855
8 Claims. (Cl. 132—83)



1. For use with a vanity case having a mirror, and a member movable across the face of the mirror, a wiper, said wiper comprising a metallic member with a channel on one face and a wiping member on its other face, said channel being adapted to receive the movable member behind said wiping member whereby the movable member causes pressure on said wiping member and movement thereof.

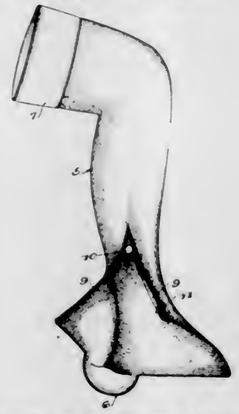
2,165,600
COIL SPRING FORMING MACHINE
Robert Chester Winders, Huntington Park, Calif.
Application December 3, 1937, Serial No. 177,844
21 Claims. (Cl. 140—78)



1. A machine for forming coiled springs comprising means for forming wire into coils, and means operating automatically when a predetermined number of coils has been formed for severing the wire in a predetermined coil and deform-

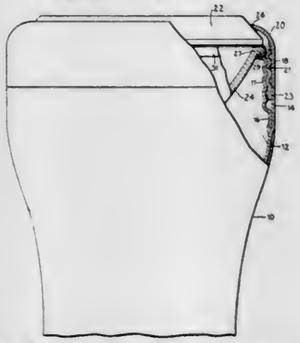
ing and extending the ends of the wire axially of and inwardly from the coils, said last named means including opposed cutting dies, pairs of opposed deforming dies adjacent and on each side of said cutting dies, and means for substantially simultaneously applying all of said dies to the wire.

2,165,601
LEG PROTECTOR
Amanda Samille Woare, Devon, Mont.
Application June 14, 1938, Serial No. 213,698
1 Claim. (Cl. 36—2)



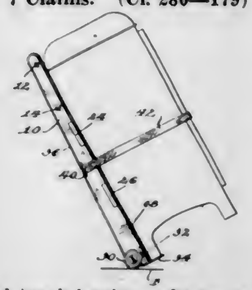
A leg protector comprising a knitted leg portion extending approximately to the knee and having a wool or part wool outer layer and a non-wool inner layer of some soft textile material; a strap at the lower end to fit under the arch of the shoe; a lastex portion at the top of and integral with the leg portion; and a slide fastener on the outside extending longitudinally upwardly from the lower end for a fraction of the total length of the leg portion.

2,165,602
FLASHLIGHT
Orville T. Wood, Clinton, Mass., assignor to Blake Manufacturing Corporation, Clinton, Mass., a corporation of Massachusetts
Original application December 21, 1937, Serial No. 180,949. Divided and this application February 21, 1938, Serial No. 191,664
6 Claims. (Cl. 240—10.6)



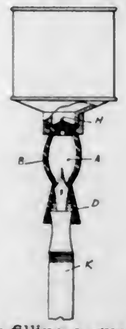
1. In a flashlight, in combination, a casing portion having a rim, an end portion having a rim adapted to abut the rim of the casing portion, a threaded member carried inwardly of the casing portion and extending outwardly beyond the rim thereof, a threaded member carried inwardly of the end member and extending outwardly beyond the rim thereof for threaded engagement with the first named member whereby said respective rims are retained in abutting relation and the outer surfaces of the casing portion and end portion are continuous.

2,165,603
HAND TRUCK
Thomas W. Yeats, Long Beach, Calif.
Application May 14, 1938, Serial No. 208,043
7 Claims. (Cl. 280—179)



1. A hand truck having a frame; a reel on the rear side of the frame; a strap having one end secured to the reel, and the other end insertable between the convolutions of the other end when wound on the reel, with its intervening portion extended to the forward side of the frame to form a loop; means correlated to the reel for rotating the latter in one direction to wind both ends of the strap on the reel to decrease the size of said loop, and in the other direction to release the strap end inserted between the strap convolutions; and means for releasably securing the reel against rotation in the last mentioned direction.

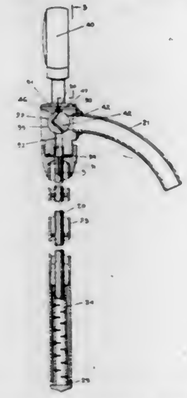
2,165,604
DEVICE FOR FILLING SMALL CONTAINERS
Eugène Abel, Paris, France
Application August 13, 1936, Serial No. 95,895
In Luxemburg August 13, 1935
4 Claims. (Cl. 226—63)



1. A device for filling a small container from a reservoir containing a liquid, which comprises, in combination, a compressible hollow body provided with two apertures, means adjacent one of said apertures for connecting the mouth of said container in a fluid-tight manner with said aperture, a part around the other aperture adapted

to fit in the mouth of said reservoir, and a solid plug in said last mentioned aperture provided with a passage extending therethrough, at least a portion of said passage being of a narrow cross section adapted to stop the flow of liquid therethrough from the reservoir closed to the atmosphere under the mere effect of gravity, but capable of permitting said flow under the effect of a suction produced by deformation of said compressible hollow body.

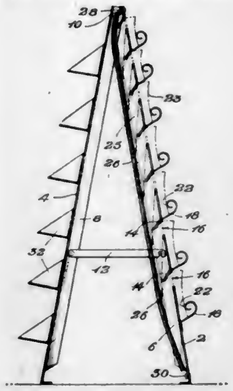
2,165,605
BEER DRAWING APPARATUS
John C. Baker, Montclair, N. J., assignor to Novadel-Agene Corporation, Belleville, N. J., a corporation of Delaware
Application September 14, 1936, Serial No. 100,585
6 Claims. (Cl. 225—3)



1. The method of drawing beer into a receptacle from a container in which the beer is maintained under a discharging pressure of more than 4 pounds above atmospheric pressure and less than the equilibrium pressure of the beer and at a dispensing temperature, which comprises drawing and discharging into the receptacle the major portion of the beer for the receptacle as quiet solid liquid by reducing the pressure on the beer gradually by friction as it flows through an outflow passage and discharging it into the receptacle without foam-forming agitation, and drawing and discharging into the receptacle a minor portion of the beer for the receptacle converted into a fine texture foam by reducing suddenly the pressure on the outflowing beer to a subatmospheric pressure, whereby gas dissolved in the beer is caused to expand suddenly, and discharging the resulting foam into the receptacle.

2,165,606
HOLDER FOR PAPER BAGS AND THE LIKE
Raymond Frank Bateman, Spirit River, Alberta, Canada
Application January 19, 1938, Serial No. 185,773
In Canada September 2, 1936
5 Claims. (Cl. 211—51)

1. A dispensing rack for paper bags and the like, comprising in combination a panel member provided with a plurality of backwardly extending instruck flanges for forming apertures in the panel, of a size to receive a package of folded paper bags, and forwardly extending spring members secured to said flanges for pressing the bottoms of packages of paper bags against the panel, with the top portions of the bags passing through

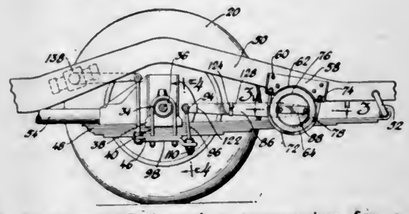


that aperture in the panel toward which said spring members respectively extend.

2,165,607
METHOD OF RECOVERING THE VALUES FROM ORES
George Blow, New York, N. Y.
No Drawing. Application March 13, 1936, Serial No. 68,781
13 Claims. (Cl. 209—172)

1. In a gravity process of separating ore particles in a separating liquid whose specific gravity is intermediate the gravities of the particles to be separated, the steps of coating the ore particles with a film of wetting liquid, then immersing the wetted ore particles in a gravity separating liquid immiscible with the wetting liquid, the liquid-liquid angle of contact of the two liquids with the ore particles being such that the separating liquid disrupts and displaces the wetting film on the ore particles, whereby said particles become wetted with the separating liquid and sink or float therein according to their respective specific gravities, and then removing the film of separating liquid from the ore particles by subjecting them to the action of a displacing liquid immiscible with the separating liquid, the liquid-liquid angle of contact of the two liquids being such that the displacing liquid will disrupt and displace the film of separating liquid on the ore particles.

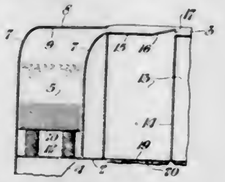
2,165,608
TRAILER TOWING SPRING SUSPENSION
James H. Booth, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 22, 1937, Serial No. 144,188
3 Claims. (Cl. 267—21)



1. In a modified spring suspension for a vehicle having a frame and a rear axle spring suspended from the frame, a housing secured to

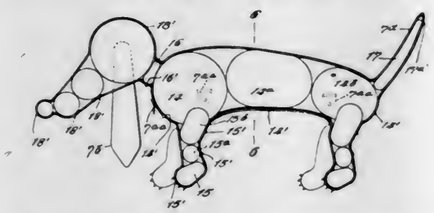
the frame, a second housing inside the first and spaced therefrom, rubber compactly filling the space between the two housings, said second housing having two sets of openings, an arm, means rigidly to secure said arm to the inner housing at one of its sets of openings, and means to connect the end of the arm to the axle, the movement of said arm causing the inner housing to move to place the rubber under torsion, said arm being releasable from the axle and capable of being secured in the second set of openings to retain the arm in released position.

2,165,609
SORTING DEVICE
Wayland S. Bowser, Crafton, Pa.
Application November 17, 1937, Serial No. 175,103
3 Claims. (Cl. 312—103)



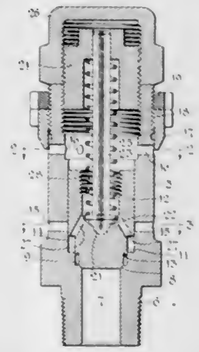
1. A device for sorting tickets and the like comprising a longitudinally extending box-like body member, a plurality of compartments successively arranged in said body member throughout substantially the length thereof, one of the endmost of said compartments being adapted for use as a magazine compartment and the remaining compartments adapted to receive the tickets as they are removed therefrom and sorted, each of said compartments having an opening in the top thereof for inserting the tickets therethrough, means arranged in said magazine compartment for urging the topmost tickets therefrom through the opening therein and means arranged along the top of said body member and extending at least from said magazine compartment along said ticket receiving compartments throughout substantially the length of said body member for guiding the tickets in their movement thereover as they are being sorted.

2,165,610
BALLOON AND METHOD OF PRODUCING SAME
James F. Boyle, Teaneck, N. J.
Application February 24, 1936, Serial No. 65,195
2 Claims. (Cl. 244—33)



1. A balloon having an envelope formed with a large body portion and relatively smaller portions of varying sizes and contours, cooperating with said body portion to produce a figure of a preconceived design, a plurality of individual gas cells inflatable to different sizes independently insertable within the cooperating portions of said envelope, each cell embodying a neck adapted to protrude from said envelope for inflating said cells when located therein, in a predetermined relationship to each other and to the portions of the envelope in which they are to function, means integral with said envelope for concealing the necks of said cells when inflated to impart to said envelope an uninterrupted external surface and means associated with said envelope to which media may be attached for holding the balloon captive or for transporting it.

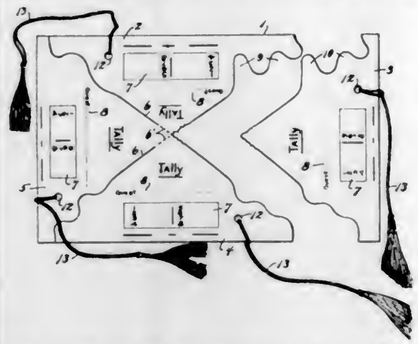
2,165,611
POP VALVE
Charles A. Campbell and Lewis A. Safford, Watertown, N. Y., assignors to The New York Air Brake Company, a corporation of New Jersey
Application September 1, 1937, Serial No. 162,935
10 Claims. (Cl. 137—53)



1. The combination of a valve housing formed with guiding means, a seat and a discharge passage leading thereto; a piston-like poppet valve guided in said guiding means to move toward and from said seat; and yielding means urging said valve toward said seat, the valve being formed with reaction shoulders which are successively exposed to discharging pressure fluid as the valve opens, the housing having relief ports opened by the last exposed shoulder on further opening movement of the valve, the housing behind the valve being closed except for restricted discharge ports and the valve having at least one discharge port leading through the valve from the last exposed reaction shoulder to said space behind the valve.

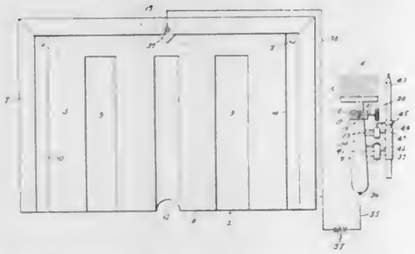
2,165,612
TALLY CARD
William C. Clark, Syracuse, N. Y.
Application October 3, 1938, Serial No. 233,107
2 Claims. (Cl. 283—49)

2. A new article of manufacture of the class described, comprising a sheet having a plurality of score-surfaces, said sheet being divided into a plurality of separable sections along irregular lines extending from the edges of the sheet towards its center and deviating from a straight line, with each section provided with one of the score-surfaces aforesaid, said sections being severed from each other for the major portion of the distance on the respective lines of separation and normally attached together in a weakened state for the remainder of each line of separation to facilitate separation of the sections, and each



section constituting a complete tally card when separated.

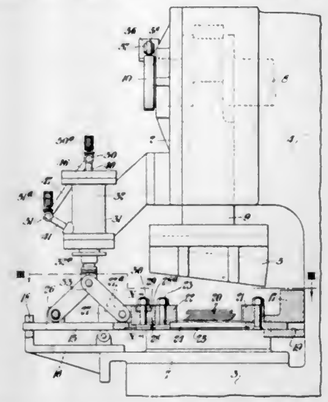
2,165,613
APPARATUS FOR GRADING AND MARKING
Kenneth E. Conn, Bloomington, Ind.
Application September 18, 1937, Serial No. 164,603
5 Claims. (Cl. 35—48)



1. In apparatus of the class described, a frame like holder comprising a base forming an electrical conductor, a plurality of sheets having rows of perforations therein and adapted to be superposed on said base with the rows of perforations in said sheets in registration and exposing areas of said plate therethrough, and a combined registering and marking instrument separate from said base and adapted to be wiped manually over the top sheet along selected rows of perforations thereof and electrically operative by contact with said exposed areas to register the number thereof and to mark said top sheet intermediate registering perforations, said instrument delineating a line as a mark.

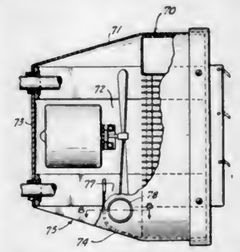
2,165,614
WORKPIECE VISE FOR CUTTING DEVICES
Howard D. Cook, Elyria, and Fritz M. Scharff, Lorain, Ohio, assignors to National Tube Company, a corporation of New Jersey
Application January 25, 1937, Serial No. 122,266
2 Claims. (Cl. 164—51)

1. The combination with a cutting device of a work-piece aligning and holding device, said work-piece aligning and holding device comprising a reciprocable bar, a jaw member fixedly mounted on said bar, an oppositely disposed jaw member mounted on said bar for longitudinal reciprocation with respect to the latter, a movable element, said movable element being disposed adjacent said second-named jaw member but remote from said first-named jaw member, a pair of oppositely extending links pivotally connected to said movable element, one of said links being pivotally connected to said second-named jaw member, the other of said links being pivotally connected to said bar, and means for moving



said movable element to move said bar and said second-named jaw member in opposite directions, said means being operated by the movement of said cutting device.

2,165,615
COMBINED HEATER AND DEFROSTER
Clifford L. Cope, Toledo, Ohio, assignor to John E. Goerlich, Toledo, Ohio
Application March 16, 1936, Serial No. 69,152
9 Claims. (Cl. 257—137)

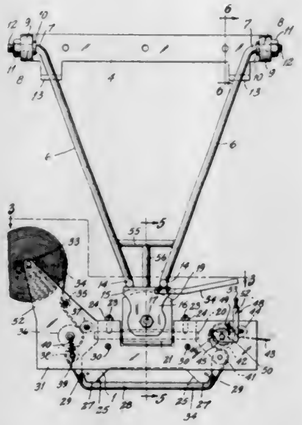


9. In an automobile-body heater of the circulating-fluid type, a casing having an air-outlet opening, a heat-exchanging core within said casing and alined with said opening, an air-conveying conduit extending to a remote point, an electric motor, and air-impelling means driven by said motor for discharging an air-stream through said core and out said outlet opening and another air-stream directly into said conduit.

2,165,616
POLISHING MACHINE
John P. Cox, St. Louis, Mo., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 1, 1937, Serial No. 151,426
9 Claims. (Cl. 51—59)

1. Automatic polishing mechanism for longitudinally and transversely curving work moving longitudinally, comprising a support pivotally mounted for vertical swinging movement above the work, a shoe suspended from said support to engage the work and freely tiltable longitudinally and transversely of the work, said shoe having

marginal ribs extending longitudinally of the work, a resilient pad extending from rib to rib and secured to the outer faces thereof, a sheet



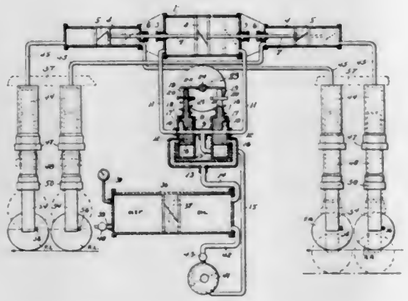
of polishing material covering said resilient pad, and means for reciprocating said shoe transversely of the work as it moves longitudinally.

2,165,617

COMBINED VEHICLE-LEVELING, TURN-BANKING, AND SHOCK-ABSORBING MECHANISM FOR MOTOR VEHICLES

Francisco de Oliveira Paes, Luiz de Matos Salazar de Eça and Eugenio Pequito Caldeira Pires, Lisbon, Portugal

Application November 21, 1936, Serial No. 112,176
In Portugal August 14, 1936
7 Claims. (Cl. 280—112)



1. The combination with a motor road vehicle having a body frame, wheels and axles and a steering mechanism, of a turn-banking apparatus and means to operate the same by action of said steering mechanism, said turn-banking apparatus including a hydraulic cylinder and piston cooperating with each wheel, hydraulic main and auxiliary operating cylinders and pistons, means cooperatively connecting said auxiliary cylinders with said hydraulic cylinders for the wheels, a hydraulic control valve apparatus operatively connected with said hydraulic main operating cylinder and with a source of liquid under pressure, and a valve operating connection between said steering mechanism and said control valve.

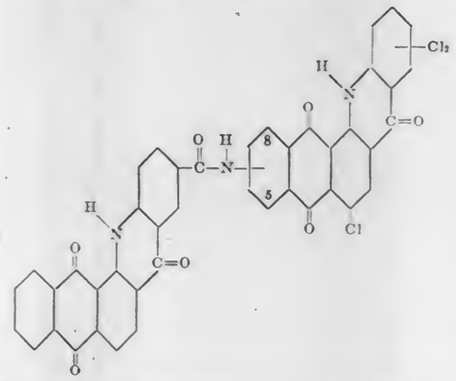
2,165,618

COMPOUNDS OF THE ANTHRAQUINONE SERIES

William Dettwyler, Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 25, 1935, Serial No. 33,062
1 Claim. (Cl. 260—277)

A compound of the formula



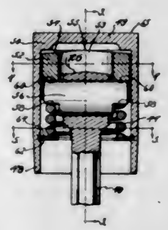
wherein the anthraquinone-2.1(N)-benzacridonoylamine radical is attached in one of the positions 5 and 8.

2,165,619

PISTON

Ralph W. Doeg, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland

Application July 10, 1937, Serial No. 153,020
4 Claims. (Cl. 309—16)



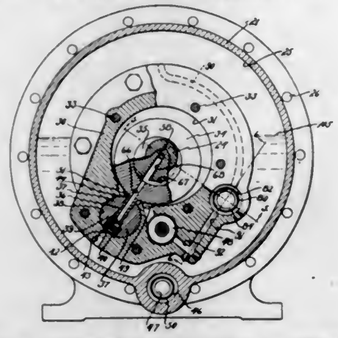
1. The combination of a piston having a head and a skirt, a member positioned within said skirt and fulcrumed on said head to permit said member to have a rocking movement, said member having pockets formed therein, a wrist pin received in said pockets, and having the axis thereof disposed at right angles to the axis of the fulcrum for said member, and a spring means mounted in said skirt and engaging said wrist pin for continuously urging said head toward said member and wrist pin.

2,165,620

REFRIGERATING APPARATUS

Ralph W. Doeg, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland

Application January 25, 1938, Serial No. 186,860
6 Claims. (Cl. 230—147)



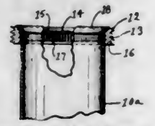
2. In a compressor, comprising a cylinder having a compression chamber, a gyrating piston in said chamber, a shaft having an eccentric for operating the piston, said shaft and eccentric having lubricating passages in associated relation, a piston blade reciprocated by the movement of the piston and having a lubricant passage adapted to deliver lubricant to the passages of the shaft and eccentric, said cylinder having a passage in communication with said chamber and in which the piston blade reciprocates, said cylinder having an oil inlet communicating with said cylinder passage and offset with respect to the vertical axis of said blade, and a rocker mounted in said cylinder passage and at one side of said blade to act as a valve for said oil inlet, said blade on its upstroke oscillating the rocker to open the inlet and allow lubricant to be drawn into the cylinder passage through said oil inlet by said piston blade and on its down stroke operating the rocker to close the oil inlet to permit said blade to force the lubricant in the cylinder passage through the passage of the blade and into the passages of the shaft and eccentric.

2,165,621

PIPE CONNECTION

Patrick F. Donahue, Waterville, and William P. Ferguson, Middlebury, Conn., assignors to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application May 20, 1938, Serial No. 209,096
1 Claim. (Cl. 285—56)



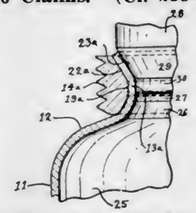
A joint connection for the end of a tubular pipe of relatively thin wall thickness; an exteriorly threaded ring bushing designed to slip over the end of said pipe and the interior wall surface which is formed with a bevelled face at one end, an intermediate knurled section and a smooth cylindrical surface at the opposite end, said ring bushing securely attached to said pipe by having the end portion of the pipe flared outwardly against said bevelled face to prevent axial removal, the adjacent portion of the pipe expanded to extrude a portion of the wall surface into said knurled section to prevent relative rotation and still a third portion of the pipe expanded to tightly engage against the cylindrical surface and provide a liquid proof seal therebetween, the expanding portions of the tube all being simultaneously effected by a tool driven axially into the end of said pipe.

2,165,622

PIPE CONNECTION

Patrick F. Donahue, Waterville, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application May 20, 1938, Serial No. 209,097
6 Claims. (Cl. 285—56)



1. A connection for a cylindrical chamber having a converging portion terminating in a tubular neck comprising an exterior threaded bushing having an interior stepped groove and a beveled face, the stepped groove designed to accommodate said neck, and a tubular sleeve having a flanged portion integral with its inner end for engaging the interior of said portion and having its opposite end flared outwardly against said beveled face to hold the parts in permanent assembled position.

2,165,623

METHOD OF PRESERVING RUBBER AND PRODUCT THEREOF

Raymond F. Dunbrook and Bingham J. Humphrey, Akron, Ohio, assignors to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio

No Drawing. Application December 21, 1936, Serial No. 117,005
12 Claims. (Cl. 18—50)

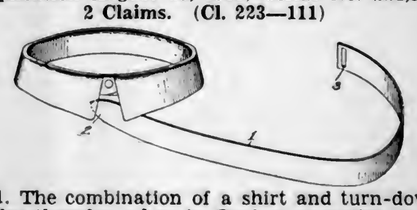
1. The method of retarding the deterioration of rubber compositions which comprises treating same with a 1, 2-dihydroquinoline having a methyl group and an alkyl radical in the 2 position, an alkyl radical in the 4 position and a member of the group consisting of the alkoxy and aroxy radicals in the 6 position.

2,165,624

NECKTIE INSERTER

David G. Evans, Kansas City, Mo.

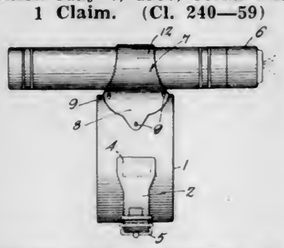
Application August 15, 1938, Serial No. 224,866
2 Claims. (Cl. 223—111)



1. The combination of a shirt and turn-down collar therefor, when in final or operative position on a wearer, of a thin, smooth, stiff, resilient

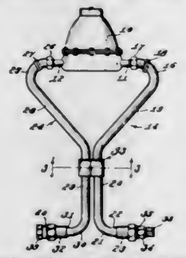
strip or ribbon completely encircling the collar between the body-portion and turn-down portion thereof and of length to project simultaneously beyond the opposite ends of the collar, one end of the strip having means whereby a flexible strip such as a neck-tie may be detachably attached to the strip.

2,165,625
BRACELET FLASHLIGHT HOLDER
John F. Fessel, Defiance, Ohio
Application May 7, 1937, Serial No. 141,323
1 Claim. (Cl. 240—59)



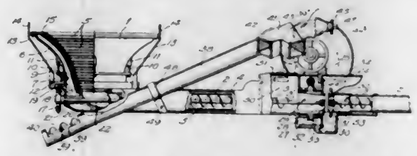
A flashlight holder comprising a mounting band adapted to be secured about a person's wrist, and a flashlight engaging clamp carried by said band and consisting of a strip of relatively wide and thin resilient sheet metal bent intermediate its length to provide a yieldable socket open at its top for insertion of a flashlight and having its arm folded outwardly and back upon themselves to provide outer leaves extending in spaced and substantially parallel relation to the arms of the socket to a point below the plane of the bottom of the socket, said leaves having their outer ends integrally united to the outer ends of arms of the socket and suspending the socket between the leaves in spaced relation thereto and out of contact with the portion of the band under the socket, end portions of said strip being bent outwardly to provide attaching ears extending outwardly from inner ends of the leaves and secured against the outer face of said band.

2,165,626
METER SETTER
John L. Ford, Wabash, Ind., assignor to Ford Meter Box Company, Wabash, Ind., a corporation of Indiana
Application January 27, 1937, Serial No. 122,534
3 Claims. (Cl. 285—3)



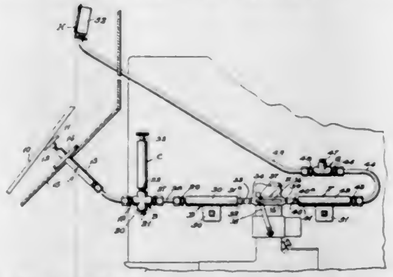
1. The combination with a fixture having opposed pipes secured thereto, of a connector-support therefor comprising a pair of conduits, each conduit comprising a body portion and being formed at one end for communicating association with one of said pipes and at its opposite end for communicating association with another pipe, rigid means rigidly connected to both of said conduits intermediate the ends thereof to position the body portions thereof against relative axial movement, while leaving each end of each of said conduits free to respond to distorting forces without affecting the other end thereof or the other conduit, and means for securing each end of each conduit to a pipe.

2,165,627
DOMESTIC COAL STOKER
Pasquale Fricchione, Scranton, Pa.
Application April 28, 1937, Serial No. 139,576
9 Claims. (Cl. 198—213)



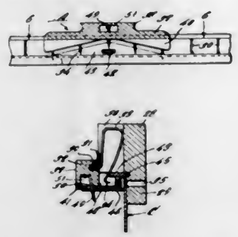
1. In a stoker of the underfeed type, a fuel conveying conduit formed of a plurality of sections, means to connect said sections to form a horizontal substantially continuous passage for the fuel, comprising a plurality of sleeve members, one of said sleeves being rotatably mounted in the fuel conduit, drive means on the periphery of the rotatable sleeve, a screw conveyor in the fuel conduit, means to connect the conveyor with the rotatable sleeve comprising a pin member insertable through the sleeve and conveyor shaft and a source of power adapted to rotate the sleeve.

2,165,628
HYDRAULIC CONTROL FOR CARBURETORS
Gordon W. Gallihugh, Flint, Mich.
Application July 17, 1937, Serial No. 154,292
2 Claims. (Cl. 74—513)



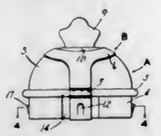
1. In a hydraulic control system for carburetors, a hydraulic foot control unit, a four-way coupling unit communicating therewith, a liquid balancing unit communicating with one leg of the coupling, a filler plug fitting into another leg of the coupling for supplying fluid to the system, a cushion carburetor control unit communicating with the fourth leg of the coupling, an oscillating link carburetor connection actuated from said control unit, a safety pressure unit located beyond the link connection, a filler coupling in the pressure line beyond the pressure unit having means for supplying fluid to the system, there being a continuous hydraulic connection between the foot control unit and the carburetor control unit, and a continuous hydraulic connection between the safety pressure unit and the filling coupling, the oscillating link carburetor connection being interposed between the carburetor control unit and the safety pressure unit.

2,165,629
CURTAIN STRETCHER
Emmett B. Gard, New Castle, Pa.
Application October 26, 1938, Serial No. 237,132
9 Claims. (Cl. 45—24)



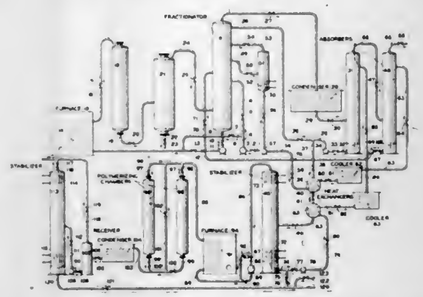
1. In a device of the class described, an elongated member having a longitudinally extending seat forming part for an article to be attached to the member and said seat forming part having a row of holes therein, spring members carried by the elongated member and having penetrating parts passing into the holes and a slide member having a part for pressing the article on the seat forming portion and another part for first moving the penetrating members out of the holes and then returning the penetrating members to normal position to cause them to pass through the article back into the holes.

2,165,630
GLASS CAP STRUCTURE FOR PERCOLATOR COVERS
Albert B. Gardella, Cleveland, Ohio, assignor of one-half to George C. Guckes, Lakewood, Ohio
Application December 11, 1937, Serial No. 179,220
1 Claim. (Cl. 53—3)



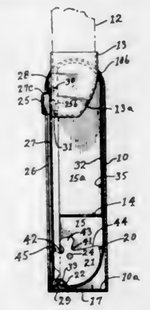
A glass cap structure for closing the opening of a metal percolator cover, said cap structure comprising a one-piece glass cap and a one-piece resilient metal strip for maintaining said cap in assembly with said percolator cover, said cap having a top portion and a generally cylindrical bottom portion adapted to extend through the opening of said percolator cover and an intermediate abutment portion adapted to seat upon said percolator cover, said metal strip having its intermediate portion extending across the outer surface of the cap top portion and having its end portions extending down along the outer surfaces of the cap bottom portion and thence inwardly therebeneath, thereby securing said cap and said strip in assembled relation, the bottom portion of said cap being provided with two diametrically opposed longitudinally extending grooves for the reception of said strip end portions, the depth of said grooves being at least as great as the thickness of said strip end portions, and each of said strip end portions being provided with a resilient finger struck therefrom and adapted upon assembly of the cap structure with the percolator cover to spring outwardly and upwardly beneath such percolator cover and maintain such assembly.

2,165,631
TREATMENT OF HYDROCARBONS
Clarence G. Gerhold, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application February 21, 1936, Serial No. 65,050
5 Claims. (Cl. 196—10)



1. In the production of gasoline by the cracking of hydrocarbon oils wherein the final gasoline-containing condensate is separated from incondensible gases and then stabilized, the method which comprises removing from the final condensate by said stabilization substantially all of its propylene and butylene content, thereby forming a condensate of lower vapor pressure than motor fuel, scrubbing said gases with at least a portion of the stabilized propylene and butylene-free condensate to absorb in the latter propylene and butylenes contained in the gases, supplying the resultant enriched condensate to the stabilizing step for the removal therefrom of the absorbed propylene and butylenes, subjecting the propylene and butylenes evolved by the stabilization, including those absorbed from the gases, to polymerization to produce gasoline boiling polymers therefrom, stabilizing the resultant polymer product to a higher vapor pressure than said condensate to retain a substantial proportion of 4 carbon atom hydrocarbons therein, and blending the thus stabilized polymer product of relatively high vapor pressure with said condensate of lower vapor pressure than motor fuel.

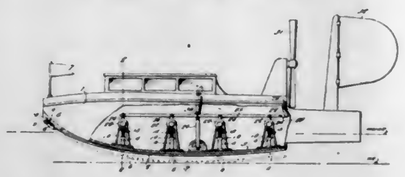
2,165,632
LIPSTICK CONTAINER
Allan C. Hoffman, Milldale, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application April 7, 1938, Serial No. 200,655
18 Claims. (Cl. 206—56)



1. In a lipstick holder, in combination, a housing having an opening in its upper end; a liner

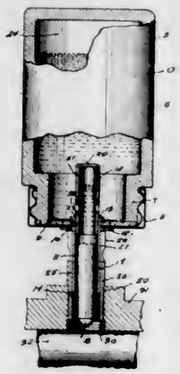
in the housing; a flexible strap guided between said liner and the housing; a lipstick carrier cup slidably mounted within said housing; an exterior operating means secured to said carrier cup; a strap take-up means mounted in the base end of said housing and having one end of said strap anchored thereto; and cooperative means between said take-up means and said carrier cup whereby slidable movement of the carrier cup will cause the free end of the strap serving as a shutter to alternately cover and uncover the housing opening.

2,165,633
BOAT
John D. Hunt, Alexandria Bay, N. Y.
Application October 25, 1938, Serial No. 236,928
3 Claims. (Cl. 114—43)



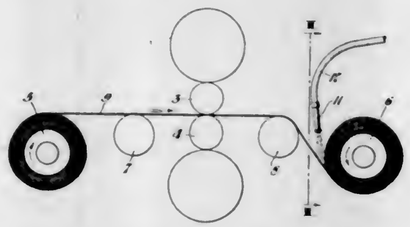
1. A boat of the class described comprising a hull including a bottom, vertical guides rising from the bottom, vertically movable posts slidably mounted in the guides and operable through the bottom of the hull, runners mounted on the lower ends of the posts beneath said bottom of the hull, pairs of standards mounted adjacent the guides, pairs of cams journalled between said pairs of standards, vertical stems rising from the posts, discs slidably mounted on the stems and engaged with the cams for downward actuation thereby, coil springs yieldingly connecting the posts to the discs for downward actuation thereby, coil springs mounted between the guides and the discs for raising the posts, and manually operable means for actuating the cams in unison.

2,165,634
OILER
Oscar H. Jung and Paul E. Heffelfinger, Milwaukee, Wis.
Application March 2, 1936, Serial No. 66,684
4 Claims. (Cl. 184—54)



4. A thermo lubricating device for bearings comprising a reservoir including a body having one end open, a cap detachably associated with the body for sealing said open end, a feed tube connected with the cap and communicating with the interior of the body, means for restricting the flow of oil from the tube, and means for feeding the lubricant through the tube in accordance with the temperature variation of the bearing with which the tube is associated, including a thermo-dome having a closed inner end and an open outer end fitted within said tube, said dome having oil inlets adjacent to the tube and spaced from the closed inner end of the tube to form an air space between the closed inner end of the dome and the oil in said dome, the dome being wholly spaced from the side walls of the body and entirely surrounded by the oil therein, and having no contact with said walls.

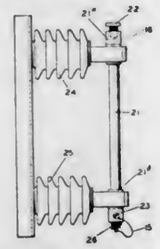
2,165,635
METHOD OF TREATING COLD-ROLLED METALS
James O. Keighley, Gary, Ind.
Application October 27, 1937, Serial No. 171,307
1 Claim. (Cl. 148—7)



In the manufacture of cold-rolled strip ferrous metal, the method of treating the strip which comprises passing the strip through the final pass cold-reduction mill wherein the temperature of the metal is raised and delivered therefrom at a temperature of at least 150 degrees Fahrenheit, immediately applying an aqueous solution consisting solely of water to at least one surface of said strip at said temperature whereby the oxygen in said water reacts chemically with the metal to form a relatively thin and even coating of iron oxide on the surface thereof, and tightly coiling said strip immediately thereafter so as to cause the excess water to be squeezed from between the convolutions of the coil and be removed from said surface, said oxide coating adapted to serve as a separating medium between the adjacent metal surfaces so as to prevent said surfaces from adhering to each other during the subsequent annealing of the metal.

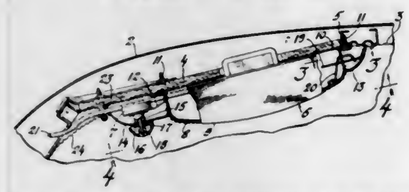
2,165,636
ELECTRIC FUSE
George N. Lemmon, Homewood, Ala., assignor to Southern States Equipment Corporation, Birmingham, Ala., a corporation of Alabama
Application December 3, 1935, Serial No. 52,719
11 Claims. (Cl. 200—117)

1. In an expulsion tube type of circuit breaker having a flexible conductor extending through one end of the tube and adapted to be pulled through said end upon the occurrence of an overload, a helical compression spring pressing against said end of the tube and tending to pull said conductor out of said end, said spring having its outer end coiled into a small helical coil which is coaxial with the spring axis and has its convolutions in close proximity to one another whereby said flexible conductor may be fastened to said spring by passing between and by being



held by adjacent convolutions of said small coil, said spring having its inner end extending diametrically across the axis of the spring and having a loop through which said conductor passes and is guided, said loops being coaxial with the spring axis.

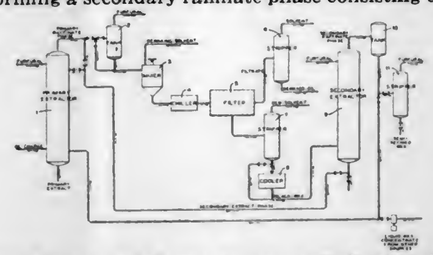
2,165,637
ROOF SPEAKER MOUNTING
John H. Little, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 6, 1937, Serial No. 129,528
5 Claims. (Cl. 250—16)



2. In a radio speaker having a substantially dome-shaped casing and means to secure said casing to the roof of an automobile adjacent the header trim and a cable adapted to connect said speaker to the radio chassis, with a portion of said cable extending from said speaker casing toward and under said header trim and an ornamental ring detachably connected to said casing, the combination of a tone control switch mounted externally on said casing and a lateral enlargement on said ring extending over and concealing said tone control switch and the portion of said cable between said casing and said header trim.

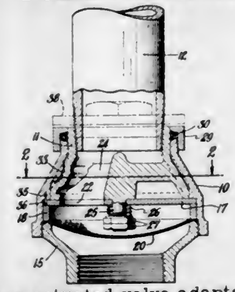
2,165,638
REFINING HYDROCARBON OIL
Robert E. Manley, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 19, 1937, Serial No. 126,537
2 Claims. (Cl. 196—13)

1. The method of treating wax-bearing mineral oil to produce low pour test oil and semi-refined wax which comprises extracting the wax-bearing oil in a primary extraction zone, forming a primary extract phase containing low viscosity index constituents dissolved in the solvent and a primary raffinate phase comprising high viscosity index constituents and wax, removing the two phases, dewaxing the primary raffinate phase to produce oil of low pour test and a slack wax comprising wax and some oil, extracting said slack wax by continuous countercurrent contact with furfural at elevated temperature such that the slack wax is deoiled while in a liquid condition, forming a secondary raffinate phase consisting es-



sentially of deoiled wax and some furfural and a secondary extract phase comprising oil and some wax dissolved in the solvent, and returning a portion of said secondary raffinate phase to the primary extraction zone.

2,165,639
VALVE
Robert D. Marx, Brooklyn, N. Y.
Application April 1, 1937, Serial No. 134,198
1 Claim. (Cl. 284—18)

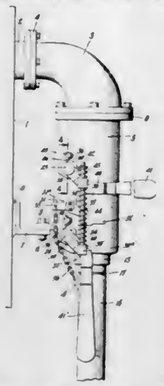


A coupling actuated valve adapted to be interposed between two pipe sections, comprising an apertured disc-like member clamped to the end of one of said sections by a hollow sleeve-like element extending outwardly from the end of one of said pipe sections, and a rotatable member having apertures adapted to register with the first apertures housed in said hollow sleeve and secured to said disk-like member by means acting to constantly urge them into frictional engagement, said rotatable member having a sleeve adapted to be threadedly engaged with one of said pipe sections and enclosed by said hollow sleeve-like element, frictional rotation resisting means interposed between said hollow sleeve and said rotatable member, the construction and arrangement being such that when the second named pipe is fully seated in said sleeve, further rotation thereof will rotate the rotatable member with respect to the disc-like member to operate said valve and force applied to disengage said pipe from said sleeve will cause reverse rotation of said movable members, there being stop means for limiting relative rotation between said disc and rotatable member.

2,165,640
TANK TRUCK VALVE
Robert D. Marx, Brooklyn, N. Y.
Application April 20, 1937, Serial No. 137,899
13 Claims. (Cl. 137—21)

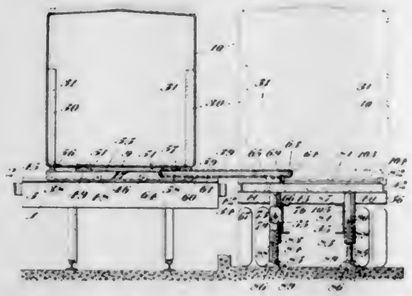
1. In a device for dispensing inflammable fluids, a faucet comprising a pair of valves arranged in

series, resilient means interconnecting said valves, means for maintaining one of said valves open



while the other valve is closed, and means cooperating with said resilient means for opening said other valve by spring action.

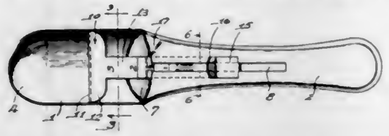
2,165,641
MERCHANDISE CONTAINER AND APPARATUS FOR TRANSFERRING THE SAME
Ralph Franklin Mattox, Dundalk, Md.
Application May 15, 1935, Serial No. 21,527
23 Claims. (Cl. 214—38)



2. A loading and unloading apparatus for a merchandise container or the like comprising a plurality of supporting frames, a carriage and actuating mechanism therefor mounted on each frame, said actuating mechanism being mounted in a frame adapted for longitudinal movement, a pair of sprocket wheels having their axles journaled in each end of the longitudinally movable frame, a fixed journal bearing block mounted on the supporting frame, a sprocket chain connecting the sprocket wheels having its ends attached to the fixed journal bearing block, a connection between the carriage and the sprocket chain, and screw feeding means adapted to advance or retract the longitudinally movable frame for the actuating mechanism.

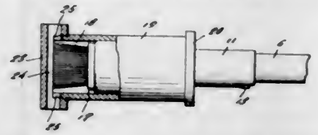
2,165,642
SPOON
Joseph E. Mayer, Chicago, Ill., assignor, by mesne assignments, to Specialty Merchandisers, Inc., Chicago, Ill., a corporation of Illinois
Application October 14, 1937, Serial No. 168,848
9 Claims. (Cl. 73—62)

1. A two-piece sheet metal spoon having a bowl of substantially cylindrical segment cross sectional contour and a substantially flat handle integral therewith, said handle having an elongated longitudinal slot therein terminating in a T head in said bowl adjacent said handle, and a sheet metal dam in said bowl and having an



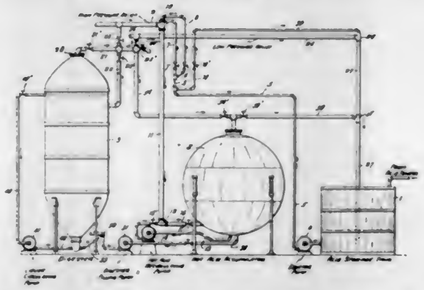
elongated portion extending through the head of said slot and below said handle and terminating in a thumb engaging portion extending through said slot and accessible above said handle to move said dam.

2,165,643
BURR CLEANER
Lola M. McGarry, Flint, Mich.
Application August 6, 1938, Serial No. 223,515
3 Claims. (Cl. 15—28)



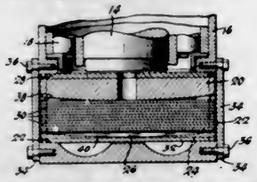
2. A dental burr cleaning device comprising a tubular handle, a drive shaft rotatably arranged in the handle, a disc brush member attached to the shaft, a casing slidably supported from the handle and enclosing the brush means and a guide means carried by the casing and arranged and adapted to guide a burr axially of the burr into contact with the working face of the brush means and restrain said burr from movement lateral to its axis.

2,165,644
METHOD OF ABSORBING AND CONDENSING DIGESTION GASES AND VAPORS
Albert D. Merrill and Thomas L. Dunbar, Watertown, N. Y., assignors to Chemipulp Process Inc., Watertown, N. Y., a corporation of New York
Application June 26, 1935, Serial No 28,580
17 Claims. (Cl. 92—7)



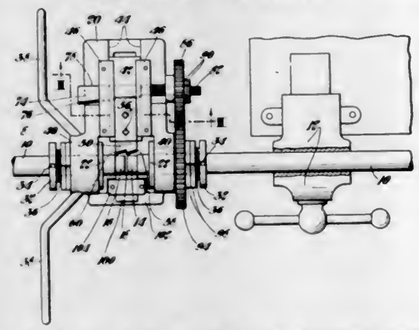
1. In a cellulosic pulp digesting process that method of recovering the chemical and thermal values of evolved gases which comprises admitting such gases to an eductor and contacting the gas therein with a plurality of streams of condensing liquid and utilizing the resultant liquid for digesting cellulosic material.

2,165,645
JOURNAL BOX END THRUST ARRANGEMENT
Martin P. Blomberg, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 23, 1938, Serial No. 209,521
15 Claims. (Cl. 308—41)



1. In a journal box having side walls, a journal in said box, a thrust member located in said box adjacent to the end of the journal, the ends of the thrust member being supported by the side walls of the journal box, and a leaf spring associated with the thrust member for cushioning movement of the journal relative to the box.

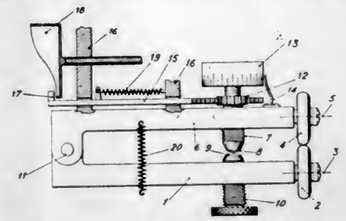
2,165,646
FINISHING AND SEVERING TOOL
Bolton C. Moise, Pittsburgh, and John Rae, Ellwood City, Pa., assignors to National Tube Company, a corporation of New Jersey
Application August 9, 1938, Serial No. 223,984
12 Claims. (Cl. 82—4)



1. A device for severing and finishing cylindrical articles comprising a carrier, a bearing including means for fixedly securing it to the article, said carrier being rotatably supported by said bearing and having a tool holder movably mounted thereon, a finishing tool secured to the holder in position for movement tangentially across the peripheral face of the article, a severing tool secured to the holder in position for movement radially of the article, and means for automatically advancing said holder upon rotation of said carrier.

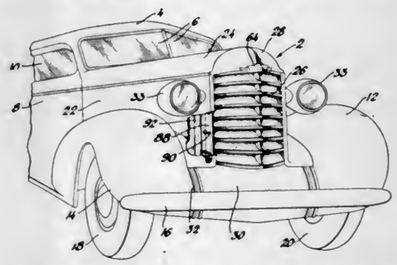
2,165,647
AUTOMATIC LINEAR DIMENSION GAUGE
Etienne Edmond Oehmichen, Valentigney, France
Application December 20, 1937, Serial No. 180,878
In France October 6, 1937
4 Claims. (Cl. 33—148)

1. In an apparatus for measuring the thickness of a moving strip of sheet material, a frame, an arm carried by said frame and movable towards and away from said frame, an anvil carried by said frame for engaging one face of a strip to be measured moving between the frame and said arm, a feeler adjustably carried by said arm and shiftable through said arm towards and away from said frame into and out of position to make contact with the other face of the strip,



means for alternately shifting said feeler towards and away from the anvil, a scale operable by movement of said feeler, and a pointer overlying said scale and cooperating with said scale for indicating movements of the feeler.

2,165,648
GRILLE CONSTRUCTION
John Oswald, Lansing, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 19, 1937, Serial No. 154,341
4 Claims. (Cl. 293—54)

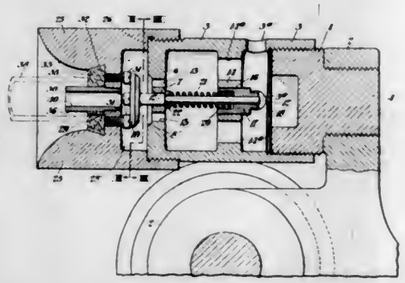


1. In a grille for the radiator of an automotive vehicle, a base louver extending transversely of the front of the vehicle, a plurality of similar, intermediary, widely-spaced, transverse louvers over the base louver, a top louver spaced from the transverse louvers, all of said louvers being arcuate, means at the sides of the louvers and secured to each and holding the louvers together in spaced relation, each of said intermediate louvers having a recess at substantially its middle part, a strengthening rib extending vertically of the grille and into the recesses, and means to secure the rib to each louver.

2,165,649
VALVE
James G. Parsons, McKeesport, Pa., assignor to National Tube Company, a corporation of New Jersey
Application March 30, 1936, Serial No. 71,773
1 Claim. (Cl. 251—145)

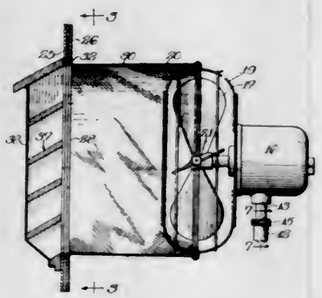
A valve comprising a valve body having an internal chamber, the end walls of said chamber being provided with aligned apertures, a poppet valve carried by said valve body with its stem extending through said aligned apertures, the end wall of said chamber which is adjacent the head of said poppet valve having a seat for said poppet valve and a port within said seat, the other end wall of said chamber having an ex-

haust port, an apertured plug adjustably disposed in the aperture of the wall of said chamber which is remote from the head of said poppet valve, the stem of said poppet valve being adapted to extend through the aligned apertures in the end walls of said chamber and through the aperture in said plug, said plug being constructed and arranged to receive one end of a valve spring, the head of said poppet valve being adapted to contact said poppet valve seat to thereby close said first named port, means carried by said valve



body for venting fluids which have been passed through said exhaust port, a detachable coupling carried by the end of said valve body which is adjacent the head of said poppet valve, said detachable coupling having an inlet port in alignment with the head of said poppet valve, a resilient spring carried by said valve body with one of its ends received by said plug, said spring being constructed and arranged to bias said poppet valve toward said inlet port, and adjustable means carried by said detachable coupling for preventing said poppet valve from closing said inlet port.

2,165,650
PORTABLE COOLING FAN
Raymond V. Pfautsch, Chicago, Ill., assignor to Ilg Electric Ventilating Company, Chicago, Ill., a corporation of Louisiana
Application October 24, 1936, Serial No. 107,351
4 Claims. (Cl. 98—94)

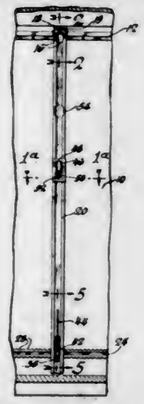


1. A room cooling appliance of the character described, comprising, in combination, a rotary propeller fan and fan motor, means for supporting said fan and motor opposite a window opening, a panel adapted to occupy said window opening, said panel having an opening, a guard encircling said fan, a tubular canvas conduit for the air propelled by said fan, a spring ring detachably securing one end of said conduit in said panel opening, and removable means for attaching the other end of said conduit to the periphery of said guard.

2,165,651
MOTOR FUEL
Harry V. Rees and Johan C. D. Oosterhout, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application October 12, 1934, Serial No. 748,076
12 Claims. (Cl. 44—9)

1. A stable antiknock motor fuel comprising gasoline and tearaethyl lead, said motor fuel normally tending to deteriorate in sunlight and containing small amounts of lecithin and an aromatic ring compound substituted with one or more groups of the class of amino and hydroxy, whereby such deterioration is substantially retarded.

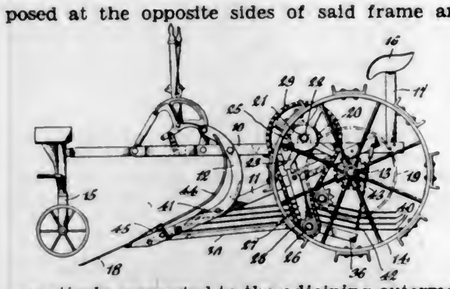
2,165,652
FREIGHT CAR LOADING APPARATUS
George M. Reifer, Rochester, and George D. Shanahan, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 25, 1937, Serial No. 132,934
17 Claims. (Cl. 105—369)



1. In load bracing apparatus for box cars the combination of a guide extending longitudinally of the side of the car, a stanchion, spaced clamps mounted on the stanchion and adapted to be positioned on opposite sides of the guide, said clamps being so constructed and arranged as to be movable toward or from each other along the stanchion so as to grip the guide between them and means for holding the clamps in locking engagement with the guide.

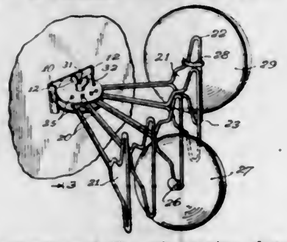
2,165,653
POTATO DIGGER
John Reuther, East Aurora, N. Y.
Application March 30, 1937, Serial No. 133,797
9 Claims. (Cl. 55—141)

1. In a potato digger, the combination of a frame, a plow, a plurality of separator bars arranged lengthwise of said frame to the rear of the plow, crank means for individually imparting a vibrating movement to said separator bars, and spaced elements constituting side walls disposed at the opposite sides of said frame and



operatively connected to the adjoining outermost separator bars for movement therewith.

2,165,654
ARTICLE HOLDER FOR COOKING UTENSIL COVERS
Arthur Rosenthal, Chicago, Ill.
Application June 10, 1937, Serial No. 147,435
3 Claims. (Cl. 211—41)

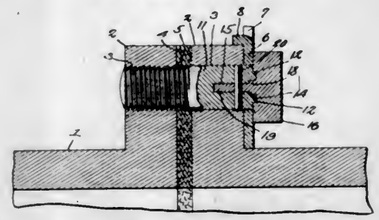


1. In a device of the character described, the combination of a base and a plurality of arms swingably supported thereby for movement in a horizontal plane, each of said arms being of a single piece of wire bent upon itself and arranged to form a loop at its forward end, said loop arranged in a substantially vertical plane and having an enlarged opening at its central portion and gradually tapering towards both ends, whereby said upper portion of said loop will be adapted for supporting an article having a ring handle and said lower portion being arranged to receive a knob affixed to an article to be supported in said loop and to thereby support the article through engagement with said knob, and means carried by said base for holding said arms in any position to which they may be moved.

2,165,655
PROCESS OF MAKING THE ESTERS OF POLYNUCLEAR HYDROXYKETONES
Leopold Ruzicka, Zurich, Switzerland, assignor to firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application October 26, 1935, Serial No. 46,966. In Switzerland November 6, 1934
6 Claims. (Cl. 260—397)

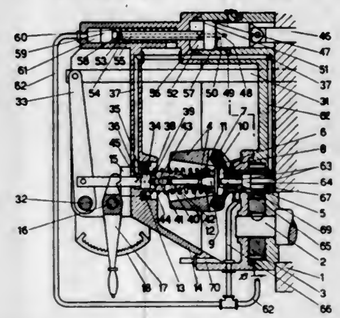
1. The process for the production of esters of polynuclear hydroxyketones, comprising subjecting the products of the reaction of ketone reagents on the hydroxyketones of the cyclopentano-polyhydro-dimethyl-phenanthrene series esterified at the hydroxyl-group to a mild hydrolysis with an acid selected from the group consisting of sulfuric acid and oxalic acid in the presence of small proportions of water and of an organic solvent for the reactants, whereby the ketone reagent is broken up without destruction of the ester.

2,165,656
CONNECTOR
Michael H. Ryan, Los Angeles, Calif.
Application September 15, 1938, Serial No. 230,128
2 Claims. (Cl. 85—1)



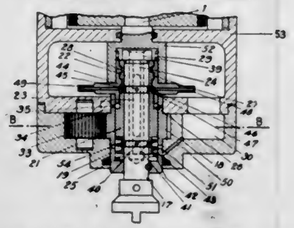
2. In a connection for train pipes and the like, a bolt comprising a threaded shank, a turning head, and a shear member joining the head to the shank, one end of the shank and the inner surface of the head being provided with detachably interengaged transverse parts, said parts of the shank outstanding with respect to said end of the shank and being so shaped as to afford a wrench hold whereby the shank may be threaded out, when the head is detached, due to a failure of the shear member.

2,165,657
REGULATING APPARATUS FOR FUEL INJECTION PUMPS OF INTERNAL COMBUSTION ENGINES
Ernst Schaeren, Soleure, Switzerland, assignor to Scintilla, Ltd., Soleure, Switzerland, a corporation of Switzerland
Application April 19, 1937, Serial No. 137,805
In Switzerland April 21, 1936
11 Claims. (Cl. 123—140)



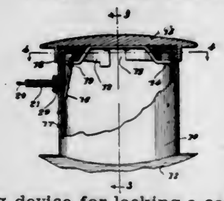
1. Control means for engines of the fuel injection type comprising in combination, a fuel injection device; means for varying the timing of said device; means for varying the quantity injected by said device; a governor responsive to engine speed; adjustable loading means for said governor for varying the speed at which the governor responds; an actuator for said quantity varying means controlled by said governor; a hydraulic pump operated at a speed proportional to engine speed and serving to develop a hydraulic pressure which varies with engine speed; means responsive to the varying hydraulic pressure and arranged to control said timing varying means; means also responsive, at least in part, to said varying hydraulic pressure and serving to modify the loading of said governor; and means for limiting the range of action of the last named means to a portion only of the range of action of the governor.

2,165,658
ANGULARLY ADJUSTABLE SHAFT COUPLING DEVICE
Ernst Schaeren, Soleure, Switzerland, assignor to Scintilla, Ltd., Soleure, Switzerland, a corporation of Switzerland
Application May 10, 1937, Serial No. 141,876
In Switzerland May 13, 1936
9 Claims. (Cl. 64—25)



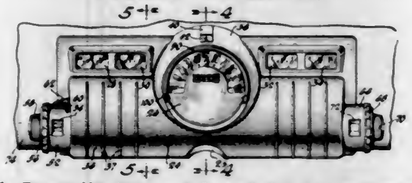
2. An angularly adjustable shaft coupling device comprising in combination a driving shaft, a driven shaft substantially coaxial with said driving shaft, one of said shafts having a longitudinal bore and circumferential grooves communicating with said longitudinal bore, a piston member axially slidable on a portion of said one shaft and having bearing surfaces therewith and passages adjoining said annular grooves, said piston member being angularly coupled to any one of said shafts and having a portion provided with a high pitch screw thread substantially coaxial to said shafts, an axially undisplaceable member angularly coupled to the other of said shafts and provided with a screw thread engaging said screw thread of said piston member, said axially undisplaceable member having a thrower disc formed thereon and substantially radial passages provided in said thrower disc and communicating one of said circumferential grooves of said longitudinally bored shaft.

2,165,659
LOCKING MEANS FOR FUEL TANK CAPS
Fred E. Schneider, Grand Junction, Colo.
Application June 10, 1937, Serial No. 147,539
1 Claim. (Cl. 292—84)



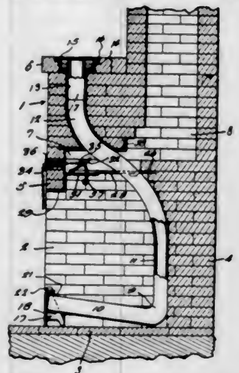
A locking device for locking a cap on the filling neck of a gasoline tank and the like, wherein the filling neck is provided with cam flanges and the cap is provided with radially extending arms rigidly connected to the cap for movement under the cam flanges of the filling neck; said locking device including a resilient member fixed at one portion thereof to said neck and having a locking portion normally lying in the path of movement of one of said arms and being arranged so as to permit movement of said last mentioned arm thereby when said cap is rotated in a closing direction, but prevent movement in an opposite direction; a stop engaging said locking portion for bracing the same against pressure from the radially extending arms of the cap when an attempt is made by an unauthorized party to remove the cap by a counter-clockwise rotation without releasing the resilient member, and means operable from a remote point for moving said locking portion out of its normal position to permit said arm to be moved thereby as said cap is rotated in an opening direction.

2,165,660
INSTRUMENT CLUSTER CABINET
George Snyder and George S. Lawson, Detroit, Mich., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 20, 1937, Serial No. 180,842
7 Claims. (Cl. 180—90)



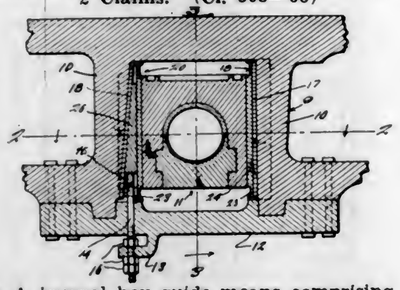
1. In an instrument board for an automotive vehicle, said board extending substantially the width of the vehicle and being inclined from the top downwardly toward the front of the vehicle, said board being provided with an opening in front of the driver's position, an instrument cluster cabinet secured over the opening, said cabinet projecting away from the instrument board toward the rear of the vehicle, a plurality of instruments mounted in said cabinet, each instrument having its dial in a plane inclined substantially 25° to the vertical.

2,165,661
FIREPLACE
Robert J. Stenquist, Kalama, Wash.
Application October 17, 1938, Serial No. 235,511
3 Claims. (Cl. 126—121)



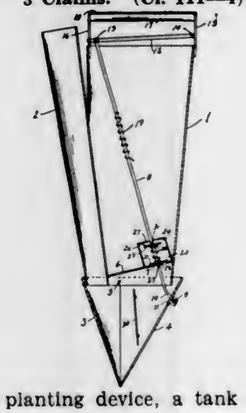
1. A fireplace comprising an open front combustion chamber having a flue opening in the top thereof, a back wall, a front mantel structure above said chamber, and a plurality of heating flues extending from the bottom of said chamber into said mantel structure in spaced apart relation and opening onto the top of the latter, said flues comprising, respectively, a lower straight end inclining downwardly and rearwardly in the bottom of said chamber to form a fire grate bar, a vertical intermediate portion fitting against the back wall for heating by said fire, and a forwardly and upwardly curving portion traversing said flue opening for exposure to the products of combustion passing through said opening, and humidifying means for heated air issuing from the upper ends of said flues comprising a water containing pan, sunk in the top of said mantel and through which the upper ends of said flues extend, and a grid covering said pan and said upper ends of the flues.

2,165,662
JOURNAL BOX GUIDE MEANS
John B. Swan, Gladstone, Mich.
Application August 3, 1937, Serial No. 157,183
2 Claims. (Cl. 308—66)



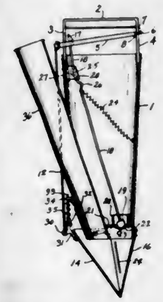
2. A journal box guide means comprising opposed vertically arranged channel shaped guides receiving therein vertical pillars of a journal box frame, each of said guides including parallel flanges and a connecting web portion having transversely arranged grooves located adjacent the ends of said guide to provide on the web portion a riser extending from groove to groove for a journal box to slide on, said journal box passing over the grooves during its sliding movement to prevent wearing of shoulders at the ends of the riser, said flanges and web portion of one of the guides having rounded bearing portions to strengthen the flanges and web portions where joined to each other, a tapered wedge in said last-mentioned guide and having oppositely arranged flat faces and convex edges slidably engaging the bearing portions to prevent twisting movement of the wedge in said last-named guide, and an adjusting means connected to the wedge and the frame.

2,165,663
PLANTING DEVICE
Albert G. Thomas, Lynchburg, Va., assignor to Sydnor-Thompson Mfg. Company, Inc., Lynchburg, Va.
Application February 4, 1938, Serial No. 188,597
3 Claims. (Cl. 111—4)



3. In a planting device, a tank for liquid, a shovel fixed to the lower part of said device, a movable shovel pivoted to said fixed shovel, a plant tube fastened to said tank and leading into the space between said shovels, yielding means normally urging said movable shovel toward said fixed shovel, a valve in the bottom of said tank, a handle attached to said device, a valve operating rod extending downwardly from adjacent said handle, said rod being attached to said valve and pivoted to said movable shovel, said rod passing through an opening in said movable shovel, and the end of said rod adjacent said handle being adapted to be moved manually to operate said valve and said movable shovel.

2,165,664
PLANTING DEVICE
Albert G. Thomas, Lynchburg, Va., assignor to Sydnor-Thompson Mfg. Company, Inc., Lynchburg, Va.
Application February 28, 1938, Serial No. 193,022
3 Claims. (Cl. 111—4)

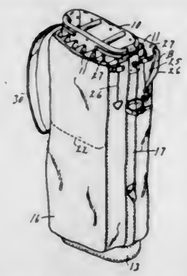


1. In a planting device, a tank for liquid, a shovel fixed to the lower part of said device, a movable shovel pivoted to said fixed shovel, a plant tube fastened to said tank and leading into the space between said shovels, yielding means normally urging said movable shovel toward said fixed shovel, a handle attached to said tank, a valve in the bottom of said tank, a valve rod attached to said valve, a portion of said valve rod being inclined relative to the rest of said rod to act as a cam portion and the upper portion of said rod terminating in a catch, a movable element adjacent said handle and linked to said movable shovel and coacting with said catch when said element is manually moved relative to said handle, a guide for said valve rod, said guide being fastened to said tank and having an inclined surface against which said cam portion on said valve rod will strike to move said rod and catch laterally so that said catch will be disengaged from contact with said movable element and so as to allow said valve rod to drop to close said valve after said valve rod and valve have been lifted a pre-determined distance by means of said element.

2,165,665
GOLF BAG
Robert E. Thompson, Des Moines, Iowa
Application September 7, 1937, Serial No. 162,711
4 Claims. (Cl. 150—1.5)

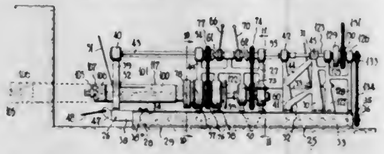
4. In a golf bag, a central bag, a row of movable open club holding tubes on each side of the bag, a pocket having one wall thereof adjacent to and completely covering the outside of each row of tubes, and a second full-width pocket in

the upper end of the first pocket having an inner partition wall formed with one vertical edge secured to said one wall of said first pocket, said first pockets having slits extending a substantial



part of their length adjacent and outwardly disposed with relation to the inner partition walls of the second pockets to give access to the second pockets, and being provided with quick fastening means for closing the slits.

2,165,666
HORIZONTAL DRILLING MACHINE
James O. Tilly, Tulsa, Okla., assignor of sixty-five and two-tenths per cent to James Hailey, Tulsa, Okla., and two per cent to C. M. Martin, Tulsa, Okla., and one per cent to Frank R. Moffatt, Tulsa, Okla.
Application June 24, 1937, Serial No. 150,166
21 Claims. (Cl. 255—20)

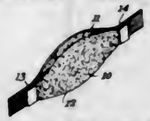


1. A machine of the class described, comprising an elongated substantially horizontally disposed primary frame, a secondary frame arranged substantially parallel to and resting on the primary frame and having one of its end portions pivotally connected to the primary frame for movement about a horizontal axis arranged crosswise of the primary frame, a carriage movable longitudinally of said secondary frame, a drill supported by said carriage, a casing surrounding said drill and also supported by the carriage, means for simultaneously moving the carriage, drill and casing longitudinally of the secondary frame, means for rotating the drill, and means for rotating the casing independently of the drill.

2,165,667
PROCESS OF CONVERTING COPPER SULPHIDE
George T. Traut, Gloucester, N. J., assignor to New Process Rayon, Inc., Gloucester City, N. J, a corporation of Delaware
No Drawing Application January 4, 1937, Serial No. 118,994
8 Claims. (Cl. 23—147)

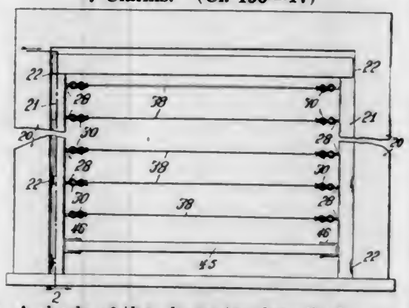
1. A process of converting copper sulphide into copper hydroxide which consists in suspending the copper sulphide in an alkaline solution of a metallic base, and agitating that solution and permeating it with air during agitation thereby yielding copper hydroxide free of acid ions.

2,165,668
EYE PROTECTOR
George Vaccaro, New York, N. Y., assignor of one-half to Harry Jacobson, New York, N. Y.
Application April 4, 1938, Serial No. 199,764
9 Claims. (Cl. 2—15)



1. A sanitary eye protector for use once only on one eye of the wearer and discardable after such use and of the general shape of the eye socket comprising a fibrous pad, a flat flexible sheet backing for the pad, means for securing the pad to the sheet comprising a pair of comparatively narrow and elongated flexible sheet members projecting from the sheet backing and each folded over and substantially enclosing an end portion of the pad and secured to the front face of the pad at said end portion, and opposed end tabs on the protector coated with adhesive on the faces thereof nearest the pad and arranged respectively to engage the outer corner of one eye socket of the wearer and the opposite corner and bridge of the nose.

2,165,669
SHADE
William Wade, Chicago, Ill.
Application August 27, 1937, Serial No. 161,290
7 Claims. (Cl. 156—17)

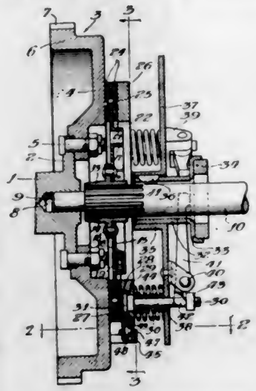


1. A shade of the character described comprising a plurality of shade-strips of preselected length and width and having beaded ends; shade-strip holding and controlling mechanism composed of a portion provided with an open-ended slotway adapted to edgewisely receive the beaded ends of the shade-strips and a second portion involving horizontally disposed trunnions with laterally disposed arms secured thereto; supporting frames adapted to be secured to the side frames of a window to provide a housing for said second portion of the mechanism and having vertically disposed slots adapted to receive the trunnions of said mechanism; and means associated with said arms whereby all of the mechanisms located at the same side of the window are yieldingly connected together to cause simultaneous rotation of all of the shade-strips.

2,165,670
CLUTCH
Earl A. Wales, Cleveland, Ohio, assignor to Raybestos-Manhattan, Inc., Bridgeport, Conn., a corporation of New Jersey
Application March 27, 1937, Serial No. 133,331
9 Claims. (Cl. 192—68)

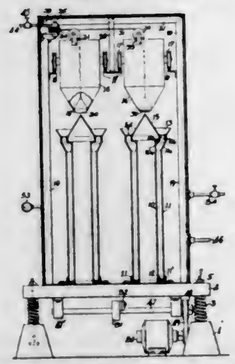
1. In combination with a clutch mechanism

which comprises a driving member, a pressure plate, a driven shaft and means for moving the pressure plate into and out of operative position, of a clutch disc comprising an inner and an outer section, a friction facing on said outer section positioned between the driving member and the



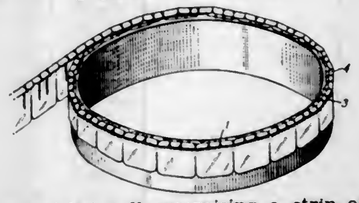
pressure plate, the inner section being carried by said driven shaft, and swingable means connecting said inner and outer sections together whereby said outer section is freely movable independently of said inner section in a direction parallel to said driven shaft.

2,165,671
APPARATUS FOR MANUFACTURING PLASTIC ARTICLES
Walter Ward, Oakland, Calif., assignor to Vi-Vac Concrete Pipe Company, a corporation of California
Application November 2, 1936, Serial No. 108,788
4 Claims. (Cl. 25—30)



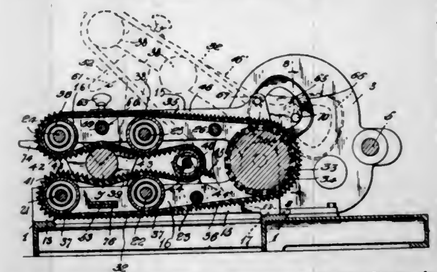
1. An apparatus of the kind descibed comprising a vacuum tank, means connected to said tank to remove the air therefrom, a conveyor movably supported within said tank for holding plastic material, the said conveyor having a discharge opening, gate means for controlling said discharge opening, an operating device for said gate means including a motor carried within said tank, means for controlling said motor operable outside said tank, a form or mold positioned in said tank in spaced relation to said conveyor, and guide means for directing the plastic material from the conveyor to said form or mold.

2,165,672
PIN TICKET ROLL
Joseph Weimont, Bogota, N. J., assignor to A. Kimball Company, New York, N. Y., a corporation of New York
Application April 15, 1939, Serial No. 267,992
1 Claim. (Cl. 40—25)



A pin ticket roll comprising a strip of connected tickets, each ticket being provided with a staple having a plurality of pins projecting at right angles to one face of the ticket at points spaced from one edge thereof, each of said tickets being folded on a line adjacent said pins, and said strip being wound in successive convolutions with the folded portions of each successive convolution overlapping and overlying the folded portions of the previous convolution, with the pins of each successive convolution projecting downwardly and lying between that convolution and the preceding convolution.

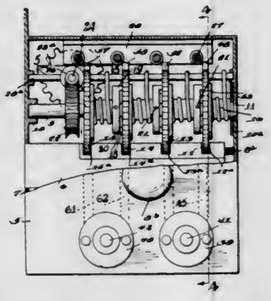
2,165,673
SAUSAGE-LINKING MACHINE
Ernest A. Mummé, Minneapolis, Minn.
Application May 22, 1937, Serial No. 144,258
12 Claims. (Cl. 17—34)



9. A sausage linking machine including jaw members comprising a lower frame and an upper frame, said frames being hinged together by a pivot to permit rising and lowering movements of the upper frame relative to the lower frame, a lower pair of longitudinally spaced horizontal rolls journaled on the lower frame, an upper pair of longitudinally spaced horizontal rolls journaled on the upper frame, a driving drum mounted to turn about the axis of the said pivot, a guide roll journaled between the drum and rear pairs of the upper and lower rolls, a twisting belt, the outer portion of which is mounted outwardly of the upper and lower pairs of rolls and arranged to be driven by the drum and the inner portion of which is looped between the rolls of the upper and lower pairs and arranged to run on the guide roll, the looped portion of the belt affording an open-sided throat through which a filled sausage casing may be moved endwise transversely of the belt, means for operating the hinged upper frame to successively close the throat onto the casing and open the same whereby the oppositely moving runs of the belt forming the throat will rotate the casing and maintain

the casing centered with respect to the spaced horizontal rolls of each frame, grippers for supporting the casing on opposite sides of the throat and contracting and holding the casing at spaced points to form twists in the casing at such contracted points when the portion of the casing disposed in the throat is rotated, said grippers having upper and lower members, said upper members being movable toward and from the lower members and into and out of engagement with the casing when the jaws are closed and opened, supporting means for the grippers mounting the grippers for adjustment toward and from each other, said supporting means including a supporting element on which the lower gripper members are slidably mounted, a gage carried by the supporting element outwardly beyond one of the grippers and in spaced relation thereto, a sausage casing support separate from and disposed on said supporting element between said gage and grippers, means for driving the belt, and means for opening and closing the jaws.

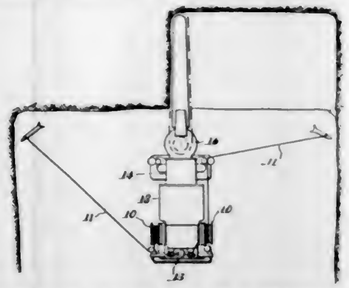
2,165,674
KEYLESS LOCKING MECHANISM
Stephen Pelle, New York, N. Y.
Application August 24, 1934, Serial No. 741,339
Renewed May 29, 1939
7 Claims. (Cl. 70—144)



1. A keyless lock consisting of a bolt having a series or notches therein, a shaft, a series of ratchet toothed wheels on the shaft, each of said wheels being mounted to turn in one of the bolt notches and also having a notch to permit the sliding movement of the bolt across the wheel, a spring pressed button for each wheel, a pawl carried by each button to actuate each wheel, and means operated independently of the buttons for actuating the wheels to produce a differential setting action of the wheels.

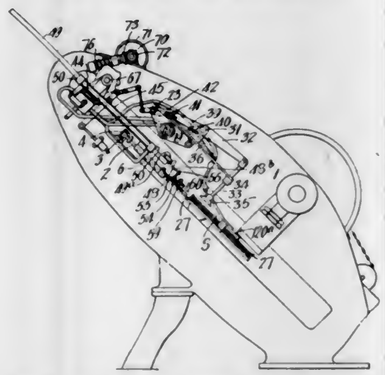
2,165,675
KERF-CUTTING MACHINE
Thomas E. Pray, Chicago, Ill., assignor to Goodman Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application September 13, 1937, Serial No. 163,565
14 Claims. (Cl. 262—28)

1. In a mining machine, a frame, a cutter head mounted thereon for rotational movement with respect thereto about an axis extending longitudinally of said frame, said cutter head having cutter bars projecting from opposite sides thereof, each of said cutter bars having a cutter chain movable thereabout, and means for adjustably supporting said frame to position said cutter bars to cut a plurality of spaced apart kerfs, one of which is along the mine roof when said cutter head is in one position and to cut a plurality of spaced apart kerfs on opposite sides of the lowermost of said first-mentioned kerfs, one of which is along the mine bottom when said cutter head is rotatably moved to an opposite position in-



cluding a shoe having slidable engagement with the ground and having adjustable supporting engagement with the forward end of said frame whereby the forward end of said frame may be vertically adjusted with respect thereto.

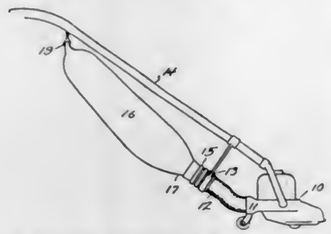
2,165,676
PRESS FOR CUTTING SHEET METAL
Charles Joseph Rhodes, Wakefield, England
Application June 17, 1937, Serial No. 148,701
In Great Britain February 11, 1937
23 Claims. (Cl. 271—14)



1. In a press for cutting sheet metal and punching a number of articles from sheets which are individually presented thereto and of the kind comprising a transverse slide and a gravity feed slide, together with grippers for holding the sheet upon said gravity slide, whereby the sheet is automatically fed, by the action of said transverse slide, for the punching operation, with a series of step by step motions, first in one direction and then, after being displaced by the gravity slide laterally to the first line of movement, in the opposite direction, in combination, means adapted to move onto and extract each successive sheet of a pack of sheets located at a different station from said transverse and gravity slides; means for transporting each sheet so extracted, from said station to a point adjacent said slides to thereby permit it to be automatically presented to said grippers; means for causing said grippers to automatically grip the sheet, and for causing the grippers to automatically release the sheet after it has been fully perforated

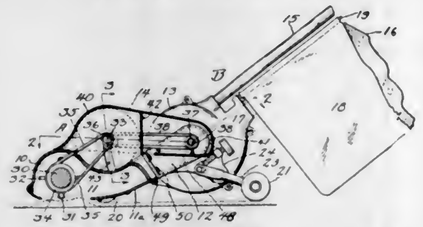
and carried by the transverse slide clear of the machine, and mechanism for then returning the gravity slide to its initial position prior to the transporting of the succeeding sheet to the point adjacent said slides and its presentation to the grippers.

2,165,677
VACUUM CLEANER
Frederick Riebel, Jr., Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application July 30, 1932, Serial No. 626,682
7 Claims. (Cl. 15—16)



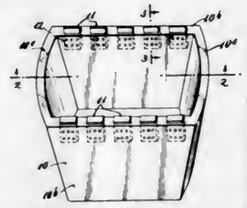
1. In a suction cleaner, a body unit including a fan casing outlet, a flexible non-porous tube communicating therewith, a handle pivoted to the body unit and projecting above said tube, a bracket secured to the handle, projecting downwardly, and carrying the outer end of said tube, a coupling communicating with said tube and carried by the bracket and a porous paper bag suspended from the handle, said bag having an inlet neck detachably attached to and communicating with said coupling.

2,165,678
VACUUM CLEANER
Frederick Riebel, Jr., and Dewey M. Dow, Toledo, Ohio, assignors to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application September 18, 1935, Serial No. 41,058
6 Claims. (Cl. 15—16)



1. In a vacuum cleaner, a suction chamber, a throat extending rearwardly therefrom, a rotary agitator in said chamber, a fan casing having a chamber therein, means whereby the chamber communicates with the said throat, a fan in said casing, its axis horizontal and transverse to the direction of movement of the cleaner, said fan casing being hinged to the suction chamber on the axis of said fan, a handle rigidly attached to the fan casing, a bag suspended below the handle and fixedly connected to the fan casing outlet, a motor disposed between said suction chamber and fan casing above the throat, and driving connections between said motor and the fan and agitator respectively.

2,165,679
PLASTER MIXING CUP
Paul Ringman, St. Albans, N. Y.
Application April 1, 1938, Serial No. 199,409
2 Claims. (Cl. 259—145)



1. A plaster mixing cup, comprising a flexible rubber body having an upwardly extending wall, and a plurality of narrow steel blades for forming scraping edges against which tools may be scraped and embedded in the top portions of said wall and projecting slightly from the top edges of said wall, the embedded portions of said blades being formed with apertures with the material of the body extended into said apertures for resiliently holding each of said blades.

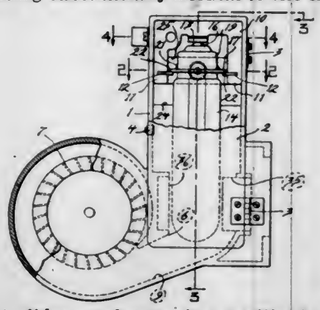
2,165,680
PLASTIC HYDROCOLLOID COMPOSITION AND METHOD OF MAKING
Johan Walter H. Stangenberg, Brevik, Sweden, and Walter S. Crowell, Melrose Park, and Charles Victor Gross, Penfield, Pa.; said Crowell and said Gross assignors to The S. S. White Dental Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application May 3, 1933, Serial No. 669,198
14 Claims. (Cl. 18—47)

1. A method for preparing an improved plastic hydrocolloid composition, for taking impressions and forming molds for plaster casts, said composition comprising as its base a plastic agar-agar hydrocolloid including plaster-set-retardant organic matter; which method comprises washing the commercially pure hydrocolloid with cold water until substantially 20 percent of the substance thereof has been removed and therewith the major portion of such organic matter, and adding to the hydrocolloid an agent effective for neutralizing the retardant properties of any such organic matter remaining unremoved.

2,165,681
PROJECTION LAMP HOUSE AND LAMP MOUNTING ADAPTED THEREFOR
Bruno Stechbart, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application December 10, 1936, Serial No. 115,257
1 Claim. (Cl. 88—24)

In a device of the character described, the combination with a lamp house comprising a main portion provided with an access opening and a door pivotally mounted on said main portion for face-wise movement to open and close said opening, of a releasable latch for maintaining said door in closed position, an incandescent electric lamp mounting associated with the interior of said lamp house including spaced slides extending in a direction intersecting the plane of said opening, at least one of which slides is conductive, adapted to be slidably engaged by a laterally extending conductive portion of a lamp

base for removal and installation of the lamp through said opening, said mounting also including a resilient conductive contact having its contact portion disposed intermediate said slides and facing substantially normal to the slide plane



of said slides, and opposing positioning devices mounted on said main portion and said door adapted to engage said laterally extending portion of a lamp base to position the lamp along said slides, one of said positioning devices being adjustable and the other of which is resilient.

2,165,682

METHOD OF MANUFACTURE OF CHLORINATED RUBBER OF HIGH APPARENT DENSITY

Raphael L. Stern, New Brunswick, N. J., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 30, 1937, Serial No. 166,704
3 Claims. (Cl. 260—111)

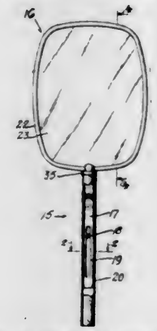
1. A method for the production of chlorinated rubber in the form of a precipitate of high apparent density which comprises precipitating a chlorinated rubber from a solution in carbon tetrachloride by introducing the said solution into agitated water maintained at a temperature not less than 158° F. and not greater than 175° F., thereby producing a chlorinated rubber in the form of discrete particles, having an apparent bulk density within the range of about 8 to about 15 pounds per cubic foot when dry.

2,165,683

HAND MIRROR

Max H. Storch, Bell Harbor, Long Island, N. Y.

Application February 25, 1938, Serial No. 192,456
1 Claim. (Cl. 306—41)



A device for a mirror including a member, a flat sheet metal shank connected thereto having a portion slotted lengthwise of the shank to afford longitudinal strip elements, the latter being initially moved apart with the width of said slotted portion being greater than that of the rest of the shank, said strip elements being laterally resilient, and a tubular handle having a longitudinal cylindrical passage of a diameter greater in size than the width of the shank, said shank extending into the passage with the strip elements tending to expand for powerfully frictionally gripping the sides of said passage to retain the handle on said shank, said shank having a transverse corrugation adjacent to the junction of the member and the shank remote from the slotted portion to thus increase the size of the shank, said corrugation being in contact with an adjacent end of said handle within said passage to center the shank in the handle.

2,165,684

PORTABLE LIQUID CONTAINER AND MEANS FOR FILLING THE SAME

Frederick A. Struck, Golden, Colo.

Application March 8, 1937, Serial No. 129,606
7 Claims. (Cl. 226—115)



6. Means for filling a beer container under pressure comprising: a spring-closed filling valve in the wall of said container communicating with the bottom thereof; a spring-closed vent valve in said wall; a fluid conduit; a fluid valve on the extremity of said conduit; an air conduit; an air valve on the extremity of said air conduit; means for securing said fluid valve and air valve over said filling valve and vent valve, respectively; and a valve stem projecting from each of said former valves to actuate each of said latter valves.

2,165,685

TEST DRILL

Frank C. Sturges, Dormont, Pa.

Application November 17, 1937, Serial No. 174,914
3 Claims. (Cl. 255—1)



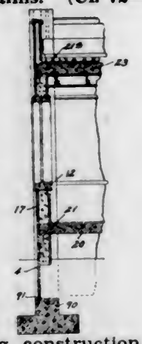
1. Apparatus for use in taking test samples of earth formations, comprising a casing, a drive shoe on one end of said casing, a sample tube positioned within said casing and supported on said drive shoe, a collar secured to the other end of said casing and having an internally threaded section, a drive head secured to said collar, and a nut threaded into said collar for engaging and holding said sample tube in position within said casing.

2,165,686

BUILDING CONSTRUCTION

Charles Suiter and Harold R. Suiter, Detroit, Mich.

Application September 18, 1937, Serial No. 164,553
8 Claims. (Cl. 72—1)



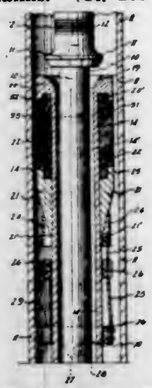
1. In building construction, a pair of precast column elements, each having a pair of parallel vertical grooves in the respective opposed faces, an inner and outer wall element, each comprising panels in a vertical plane for engaging in the respective grooves providing a hollow wall section therebetween, an element providing a horizontal belt course extending from column to column and positioned between the opposed horizontal edges of the successive vertical panels forming the outer face of the wall in a tongue and groove relationship therewith.

2,165,687

PACKER

Feri A. Thaheld, Dallas, Tex., assignor to The Guiberson Corporation, Dallas, Tex., a corporation of Delaware

Application April 27, 1936, Serial No. 76,638
4 Claims. (Cl. 166—12)



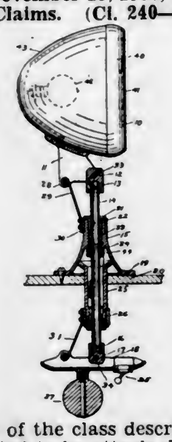
1. A well packer including, a support, an elastic packing element mounted on said support, means for distorting the packing element into its packing position, and an annular flared reinforcing bushing within the packing element and secured to said support for preventing upward flowing of the element when the same is distorted.

2,165,688

LAMP CONTROL MEANS

Graham Trippe, Chicago, Ill.

Application November 15, 1937, Serial No. 174,571
2 Claims. (Cl. 240—61.13)



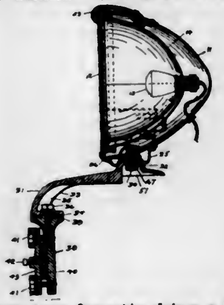
2. A device of the class described comprising a support adapted to be attached to a desired surface, a connecting member slidably and rotatably extending through said support, a lamp pivotally attached to one end of said connecting member, a remote control handle pivotally attached to the other end of said connecting member, a flat metallic tension member pivotally attached adjacent one end to the lamp and adjacent its other end to the support and another tension member pivotally attached adjacent one end to the handle and adjacent on its other end to the support so that upon movement of the handle the connecting member and the tension members will move the lamp to a desired position, the tension of one tension member counteracting the tension of the other tension member to provide smooth movement of the lamp and to maintain equilibrium of the lamp in all positions.

2,165,689

HEAD LAMP FOR VEHICLES

Graham Trippe, Chicago, Ill.

Original application November 11, 1936, Serial No. 110,324, now Patent No. 2,123,125, dated July 5, 1938. Divided and this application November 22, 1937, Serial No. 175,777
1 Claim. (Cl. 248—203)



A supporting arm for attaching a head lamp to a vehicle comprising an upper portion adapted

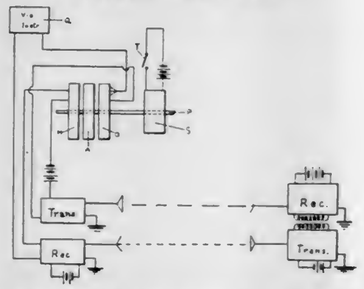
to contact the head lamp, and a lower portion adapted to contact the vehicle, both of said upper and lower portions curved to form tapered recesses, means in the upper of said recesses for attaching the supporting arm to the head lamp, and means in the lower of said recesses for attaching the supporting arm to the vehicle, said means being reachable only by means conforming to said recesses.

2,165,690

NAVIGATION INSTRUMENT

Warrington C. Wademan, West Orange, N. J.

Application January 27, 1936, Serial No. 60,961
1 Claim. (Cl. 250—1)



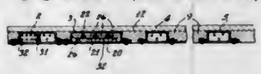
An instrument substantially as herein described for mechanically calculating distance, composed of a radio transmitting set, a mechanical means of operating said transmitting set wherein a brush mounted on a revolving disc is passed between two contact points of the primary circuit of said transmitting set in such a manner that the circuit is momentarily closed and an impulse is thereby transmitted thru said transmitting set once each revolution of said revolving disc, an automatic relay transmitter to pick up and re-broadcast the signals sent out from this mechanically operated sending set, an antenna to pick up these relayed signals, a means of amplification such as any standard radio set, a mechanical means of calculating the time required for the signals to travel to the relay station and return wherein the returning or relayed radio signals are transmitted from the standard receiving set to a collector ring, thence to a bank of three brushes mounted on or thru a revolving disc which sweeps the face of said collector ring, and thence to the commutator assembly wherein the opposite end of each of said three brushes sweeps the face of one of three banks of segmented commutator rings and thence to a bank of three tiers of electric bulbs (the suggested number of bulbs being 27), forming a visual indicator, said segmented commutator rings being divided into series and wired to said bank of electric bulbs in such a way that a current passing thru segments 1, 11, 21, 31 and so forth of the first bank of segments of said segmented commutator ring would be transmitted to bulb #1 in the first bank of bulbs of said visual indicator, and a current passed thru segments 2, 12, 22, 32 and so forth would be transmitted to bulb #2 of the first bank of electric bulbs of said visual indicator, and the remaining segments of the first bank in said commutator ring to be wired in like manner to the remaining bulbs of the first bank of bulbs in said visual indicator, thus dividing the first bank of segments on the segmented commutator ring into nine series of one hundred active segments each, with each series connected to a separate bulb in the first bank of bulbs in said visual indicator, while the tenth segment of each series remains a blank, and where the second bank of segments of the segmented commutator ring is divided into segments approximately ten times the length of the segments of the first commutator bank and arranged in such a manner that while one of the said commutator disc brushes would be sweeping any one of the group of commutator segments one to ten of the first commutator ring except the first group, the second brush of the said commutator disc would be in constant contact with the face of the corresponding segment of the second series of segments of the segmented commutator ring, and the second series of segments of the segmented commutator ring are wired in the exact order of the first series, that is, so that segments #1, 11, 21, 31 and so forth, would transmit current to the first bulb of the second bank of bulbs in the visual indicator and the remaining segments and bulbs wired in like order, and also where the third bank of segments of the segmented commutator ring is composed of segments approximately ten times as long as the segments in the second series of the segmented commutator ring, or approximately one hundred times as long as the segments of the first series of segments of the segmented commutator ring, and the face of the segments of the third series of segments in the segmented commutator ring are swept by the third brush in the said revolving commutator disc in such a manner that while the said first brush of the revolving commutator disc is sweeping any group of one hundred segments of the first series of segments in the said segmented commutator ring except the first group of one hundred segments, and the second brush of said commutator disc is sweeping the ten segments of the corresponding second series of segments in the segmented commutator ring, the third brush of said revolving commutator disc will be sweeping the corresponding segment of the third series of segments in the segmented commutator ring, these segments being individually wired so that segment #1 is connected to bulb #1 of the third series of bulbs on the said visual indicator, while segment #2 is connected to the second bulb of said visual indicator and the following segments of the third series of segments of the said segmented commutator ring are connected in like order to the remaining bulbs of the third bank of bulbs in the said visual indicator.

2,165,691

CAR FLOOR CONSTRUCTION

Dan H. Bell, Pittsburgh, Pa., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York

Application November 25, 1936, Serial No. 112,682
5 Claims. (Cl. 105—422)



1. In a rail vehicle, a car body having flooring consisting of body sills, floor boards resting on top of said sills and rectangular conduits of equal thickness with said floor boards, a panel located substantially centrally of said body beneath said flooring and serving as a support for motor controls, brake controls and the like, motors fore and aft of said body, and cables and linkages extending through said conduits to said panel and from said panel to said motors, said conduits comprising hollow elements of said flooring housing said cables and linkages for the major portion of their lengths.

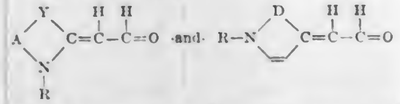
2,165,692

HETEROCYCLIC FORMYLMETHYLENE COMPOUNDS

Leslie G. S. Brooker, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application March 25, 1938, Serial No. 198,106
8 Claims. (Cl. 260—284)

1. A formylmethylene compound characterized by a formula selected from the group consisting of the following formulas:



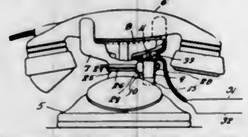
wherein A represents a divalent organic radical selected from the group consisting of vinylene and phenylene groups when Y represents a divalent group selected from the group consisting of oxygen, sulfur and selenium atoms and vinylene groups, and A represents an ethylene group when Y represents a divalent group selected from the group consisting of sulfur and selenium atoms, and A represents a naphthylene group when Y represents a divalent group selected from the group consisting of oxygen and sulfur atoms and vinylene groups, D represents a divalent group selected from the group consisting of vinylene and phenylene groups and R represents an alkyl group.

2,165,693

RADIO CONTROL DEVICE

Theodore D. Bross, Hartford, Conn.

Application January 25, 1937, Serial No. 122,111
6 Claims. (Cl. 179—2)



1. A radio control device comprising a switch adapted to be secured to the neck of the base of a French type telephone instrument and connected to a radio receiving circuit, the said switch having an operating member extending therefrom through an opening in said instrument and in position to be operated by a movable member of said instrument, a circuit closing bar operable by said operating member, a pair of contacts engageable by said bar for shunting the said radio circuit during the use of said telephone instrument upon the release of an operating member thereof, and a separate set of contacts in said switch whereby a radio receiving circuit may be connected thereto for breaking the latter circuit during the said use of the telephone instrument.

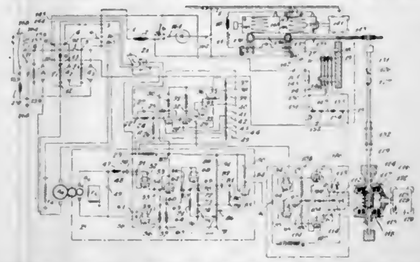
2,165,694

ELECTRICAL CONTROL DEVICE

Alexander H. Brown, Jr., Detroit, Mich., assignor to Transit Research Corporation, New York, N. Y., a corporation of New York

Application March 19, 1937, Serial No. 131,835
9 Claims. (Cl. 172—179)

9. In combination in a vehicle having axles, a motor for driving at least one of said axles, a control circuit subject to an input voltage which is a function of the acceleration of said axles, means for differentiating said voltage, a manual control for modifying the resultant voltage, a second control circuit subject to a voltage which is a function of the current through said motor, means for amplifying said last named voltage to values substantially equal to the output voltages of said first circuit, means for affecting a multi-



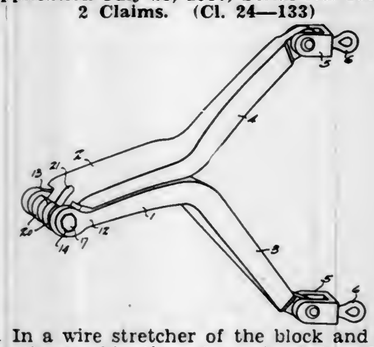
plication of the output voltages of said second circuit with the tendency to exceed the rated value of the current through said motor, a third circuit for comparing the output values of said first and second circuit, and means responsive to said third circuit for controlling the flow of current to said motor.

2,165,695

WIRE STRETCHER

Harry J. Campbell, Woodworth, Mont.

Application July 28, 1937, Serial No. 156,163
2 Claims. (Cl. 24—133)



1. In a wire stretcher of the block and tackle type, the combination of a pair of jaws having outwardly diverging lever arms, one of said jaws having a pair of spaced ears one of which is fashioned with an angular socket and the other ear fashioned with an eccentrically arranged bolt-hole, of an adjustable hinge pin having an angular head seated in the socket and an eccentric bolt-end passed through said bolt hole, a clamp nut on the free end of the bolt-end, the other jaw having a pair of spaced hooks forming a wire-slot between them, and said hooks having bearings on said pin between the spaced ears.

2,165,696

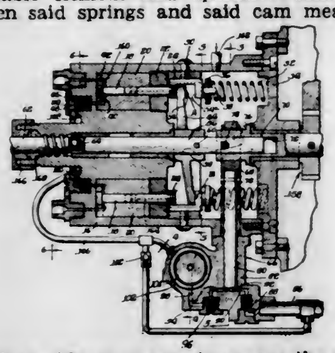
FLUID CONTROL MECHANISM

James A. Charter, Chicago, Ill.

Application October 29, 1936, Serial No. 108,165
6 Claims. (Cl. 123—139)

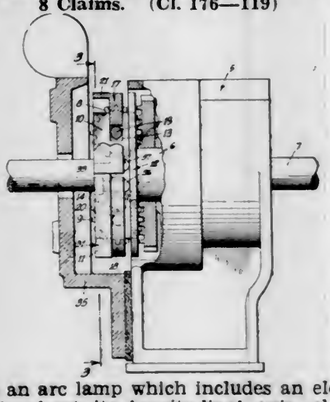
1. In fluid control mechanism for an internal combustion engine, a housing, a plurality of fluid pressure generating plungers therein, springs for causing said plungers to experience a fluid discharge movement to inject fluid into the engine, cam means for successively tensioning and then releasing said springs to control

the injection strokes of said plungers in predetermined relation, and means including an adjustable element and operative connections between said springs and said cam means for



adjusting said cam means to govern the time of beginning and the length of said injection strokes whereby to maintain substantially constant, for a given speed, the time of ending said injection strokes.

2,165,697
ELECTRODE RELEASE ATTACHMENT FOR ARC LAMPS
Fielding C. Coates and Henry S. Fowler, Los Angeles, Calif., assignors to Mole-Richardson Co., Los Angeles, Calif., a limited partnership of California
Application September 6, 1938, Serial No. 228,612
8 Claims. (Cl. 176—119)



1. In an arc lamp which includes an electrode rotatable about its longitudinal axis, electrode feed wheels, and a means mounting said feed wheels for movement toward and away from said electrode, the combination of: a resilient means engageable with said feed wheels for normally urging said feed wheels into engagement with said electrode; and a control means coupled to said resilient means and manually operable to disengage said resilient means from said feed wheels, and automatically operably responsive to rotation of said electrode to re-engage said resilient means with said feed wheels.

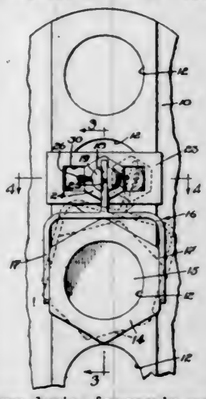
2,165,698
SEAT FOR AMUSEMENT DEVICES
Lee U. Eyerly, Salem, Oreg.
Application July 23, 1937, Serial No. 155,239
5 Claims. (Cl. 272—36)

1. A device of the class described consisting of a car, a pivotal support for said car, an apron hingedly attached to the front edge of said car, a nose forming a closure for said car hinged



below the apron hinge, and a latch on said apron for holding said nose in an elevated position.

2,165,699
RETAINING DEVICE
Stanley J. Fisher, Downey, Calif.
Application February 28, 1938, Serial No. 193,164
22 Claims. (Cl. 74—600)

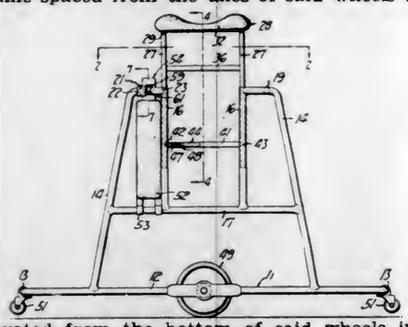


1. A retaining device for use in connection with wrist pin construction in which the pin is held rigidly in a crank arm by means of a nut threaded onto the pin, said device including means for engaging said nut, said means having an arm extending therefrom, anchor means including a slotted member adapted to be rigidly secured to the crank arm, said anchor means including an element adjustable in said slot and having a slotted portion for receiving said extended arm, and means for positively connecting said element and arm.

2,165,700
INVALID WALKING SUPPORT
Henry Glynn, Oakland, Calif.
Application July 25, 1935, Serial No. 33,071
7 Claims. (Cl. 155—22)

7. An invalid walking support comprising, a substantially horizontal base frame, horizontally spaced vertically extending supporting means each provided with a top support for the armpits of the user and a support thereunder for engagement by the user's hands, wheels carried by said frame under said means for supporting said frame in elevated position over a supporting surface, the axes of said wheels and said supports being positioned in a common plane substantially perpendicular to said frame so as to place said supports and wheel axes in vertical alignment in a horizontal position of said frame, said frame being tiltable about the axes of said wheels from a

horizontal to an inclined position thereby displacing said supports to one side of a vertical position over said wheel axes, and means on said frame spaced from the axes of said wheels and



elevated from the bottom of said wheels in a horizontal position of said frame and serving with said wheels to support said frame in said inclined position thereof.

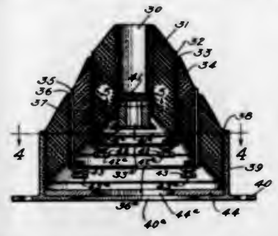
2,165,701
RACKET
Henry Goerke, New York, N. Y.
Application November 26, 1938, Serial No. 242,493
6 Claims. (Cl. 273—73)



1. The combination, with structure including the head of a racket of the class described and a handle-including extension of the head, of means to form the impact network of the racket comprising string elements having their mid-portions crossing the head transversely of the axis of the handle and having their extremities bent first away from and then bent generally toward the handle and crossing said mid-portions, said structure maintaining the bends in said elements and the portions of the latter which extend toward the handle being anchored to said structure.

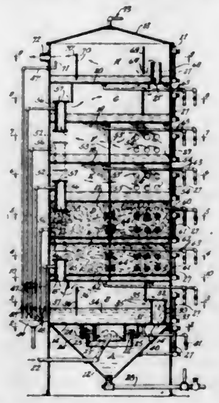
2,165,702
RESILIENT MOUNTING
Fred L. Haushalter, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 29, 1937, Serial No. 166,334
12 Claims. (Cl. 267—63)

1. A resilient mounting comprising inner and outer members positioned for relative axial vertical movement, the outer member being circumferentially discontinuous, a continuously annular resilient cushion interposed between said members, and means holding the circumferentially discontinuous outer member and cushion pressed radially toward the inner member, the resilient



cushion having faces sloping in the same general direction and the surfaces of the cushion at the inner and outer members being axially off-set to permit axial cushioned movement of one of the members with relation to the other.

2,165,703
APPARATUS FOR TREATING OIL
Lawrence A. Holmes, Whittier, Calif.
Application March 3, 1937, Serial No. 128,786
15 Claims. (Cl. 210—49)

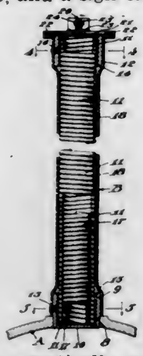


1. In a device for cleaning and separating a contaminated petroleum emulsion, the combination of a shell having inlet and outlet openings at opposite ends, horizontal partition members in said shell dividing it into a plurality of horizontally disposed chambers, filter material in said chambers, means providing communication between said chambers, partition walls in certain of said chambers forming compartments, certain of said partition walls having apertures therein and means for individually draining liquid from said chambers.

2,165,704
SIGN
Joseph B. Hood, Hollywood, Calif.
Application August 19, 1938, Serial No. 225,737
5 Claims. (Cl. 40—145)

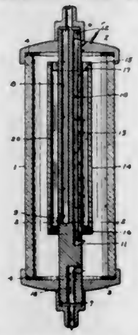
1. In a sign structure, a base, a cup supported by said base, a resilient longitudinally split sleeve mounted interiorly of said cup, an upstanding coil spring having its lower end portion fitted within said sleeve, clamping means supported by the structure in a position to apply external pres-

sure to said sleeve, and a sign element supported



by said spring in a vertically spaced relation to said base.

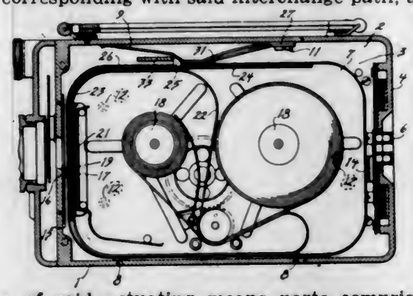
2,165,705
FLOW METER
Miles S. Houser, Bluffton, Ind.
Application August 4, 1937, Serial No. 157,375
1 Claim. (Cl. 73—215)



A flow meter comprising two transparent vertical cylinders one within the other, a carrier extending axially through both cylinders, means mounted on the carrier to close the opposite ends of the outer cylinder, channeled members revolubly mounted on the carrier and adapted to clamp the closure means on the outer cylinder, means to close the opposite ends of the inner cylinder, the upper one of said latter closures having vents therein, an inlet conduit in the carrier communicating with the lower portion of the inner cylinder and with the upper one of the channeled members, a second conduit in the carrier having communication with both cylinders and through which liquid flowing into the inner cylinder, overflows at a plurality of levels into the outer cylinder and discharges through the other channeled member and graduations on one of the cylinders to cooperate with various levels of liquid in the inner cylinder for indicatng quantities of liquid flowing through the meter.

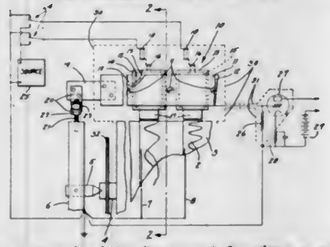
2,165,706
PHOTOGRAPHIC CAMERA
Albert S. Howell, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application September 3, 1937, Serial No. 162,355
3 Claims. (Cl. 88—17)

1. In a photographic camera the combination with an exposure apertured film magazine and a camera structure adapted for the interchangeable mounting of said magazine thereon in a predetermined interchange path, of magazine aperture shutter actuating means comprising a camera part engaging a shutter part carried on the magazine for movement with respect thereto corresponding with said interchange path, and



one of said actuating means parts comprising parallel springs extending longitudinally of and operable transversely of said interchange path and between which the other actuating means part passes as an incident of interchange movement of said magazine, said springs being provided with opposing cam formations yieldably engageable with said other actuating means part as an incident of said interchange movement.

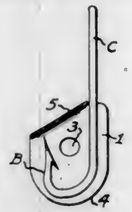
2,165,707
APPARATUS FOR THE PRODUCTION OF MUSIC
Charles T. Jacobs, New Providence Township, Union County, N. J., assignor to Miessner Inventions, Inc., Millburn, N. J., a corporation of New Jersey
Application April 23, 1937, Serial No. 138,562
19 Claims. (Cl. 84—1)



1. In a musical instrument having a plurality of generators of frequencies respectively representing a musical scale, means for continuously operating said generators, and an electro-acoustic translating device: signal-transmitting means permanently connecting said generators with said translating device; output devices included in said generators, said transmitting means being responsive to said generators in accordance with sensitization of said output devices; and means for selectively sensitizing said output devices, including a plurality of conductors each for the sensitization in common of output devices for a plurality of different generators.

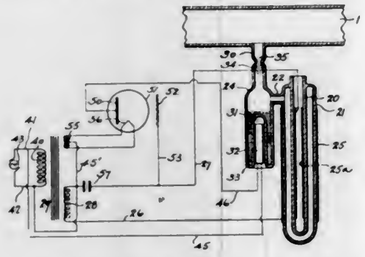
2,165,708
FISHHOOK COVER
Henry W. G. Jend, Grosse Pointe Park, Mich.
Application July 13, 1938, Serial No. 218,931
3 Claims. (Cl. 43—38)

1. In a fish-hook cover composed of a blank, said blank being deflected and doubled over through the vertical center thereof and forming thereby a pair of spaced apart walls, each of said walls being substantially semi-circular at the



lower portion thereof and this portion rising vertically therefrom and terminating to an obliquely doubled over portion.

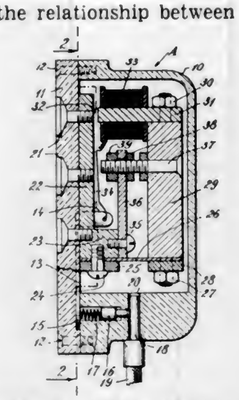
2,165,709
PRESSURE CONTROL DEVICE FOR LUMINOUS TUBES
Thomas J. Killian, Seattle, Wash., assignor to Barkon Tube Lighting Corporation, Seattle, Wash., a corporation of Washington
Application March 16, 1938, Serial No. 196,289
4 Claims. (Cl. 176—125)



1. In a device of the character described, a gas filled tube, a source of gas in communication with said tube, and means to regulate the gas density in said tube when luminous, said means comprising a vapor electric device having a cathode, an anode and a control grid and circuits therefor, a device connected in the anode circuit of said vapor electric device for causing gas to pass from said source to said tube when the gas density in said tube decreases, and a baratron communicating with said luminous tube and connected in the control grid circuit of said vapor electric device, current for said anode circuit being supplied from a source of alternating current and current for said grid circuit being supplied from the secondary of a transformer connected to said source.

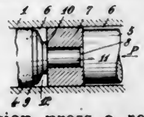
2,165,710
BONE CONDUCTION AUDIPHONE
Henry Koch, Jamaica, N. Y., assignor to Dictograph Products Company, Inc., Jamaica, N. Y., a corporation of Delaware
Application July 5, 1934, Serial No. 733,739
5 Claims. (Cl. 179—107)

1. In an audiphone, the combination of a casing, a vibratory member carried by the casing and including a reed, a permanent magnet having a voice coil, a pair of resilient members disposed at an angle to each other for supporting the magnet in operative relation with the reed to form an air gap between them, and means for adjusting the relationship between at least one



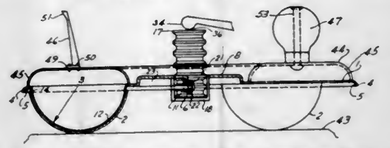
of said members and the magnet to vary the said air gap.

2,165,711
EXTRUSION PRESS
Alfred Kreidler, Stuttgart, Germany
Application October 31, 1935, Serial No. 48,554
In Germany October 31, 1934
4 Claims. (Cl. 207—2)



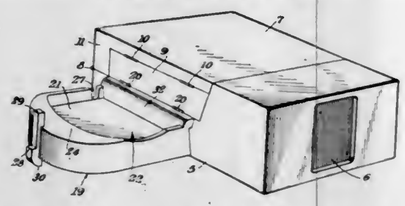
1. In an extrusion press a receiver, a piston closing one end of the receiver, an extrusion die at the other end of the receiver, a loose disk between the piston and the die of such diameter that the volume of the space between disk and piston when the two are in contact is considerably exceeded by the volume of a body having the length of the stroke and being bounded by an outer cylinder having the diameter of the receiver and an inner cylinder having the diameter of the said disk, and means for guiding the said disk in the piston, whereby on advancing the piston the contaminated metal is gradually forced into the space between the disk and the piston and after this space has been filled the disk is caused to move along with the extruded metal.

2,165,712
COOKING DEVICE
Richard B. Lawrence, Detroit, Mich.
Application March 11, 1937, Serial No. 130,272
5 Claims. (Cl. 53—6)



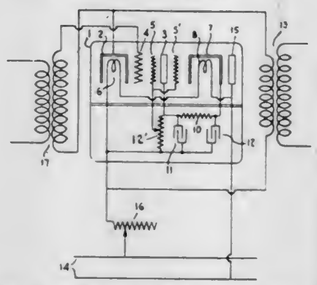
3. In a cooking device, the combination of a plurality of cups, a plurality of scraper members rotatably mounted and engaging said cups, gear members on each of said scraper members, a sole plunger member having teeth engaging said gear members, means for actuating said sole plunger member, and a cover means for said plurality of cups, said plunger extending outwardly through said cover means for contact by its actuating means.

2,165,713
COMBINED AUTOMATIC PHONOGRAPH AND RADIO
Meyer Lehman, New York, N. Y.
Application October 8, 1936, Serial No. 104,648
4 Claims. (Cl. 312—8)



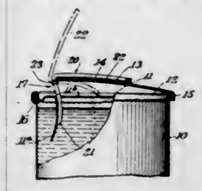
4. In a portable phonograph for playing and discharging in succession records from a stack on the turntable, a casing having a hinged cover, a record tray reversibly hinged to said casing and swingable selectively to a position entirely within or to a position entirely outside of said casing, said tray comprising a wall on which records may rest, raised side walls adapting one side of said tray for the reception of records discharged from the record stack when the tray is disposed outside the casing and the other side of said tray having means to facilitate the storage of records when said tray is disposed entirely within the casing.

2,165,714
RADIO CIRCUITS
Aristote Mavrogenis, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Original application May 17, 1929, Serial No. 363,833. Divided and this application May 20, 1937, Serial No. 143,773
2 Claims. (Cl. 250—27)



1. The combination of an electron discharge device comprising a cathode, a control grid, an anode and a second grid for preventing the anode potentials from appreciably affecting the anode current over a wide range of anode potentials, means for applying a positive voltage to the anode in respect to the cathode, means for applying a lesser positive voltage to the second grid in respect to the cathode, a load circuit connected between the cathode and anode, an input circuit connected between the control grid and the cathode to control the space current flowing between said cathode and anode, one of said grids having connections to the load circuit for impressing between it and the cathode, fluctuations of potential similar in phase to the fluctuations of potential between the anode and cathode produced by fluctuations of the current flowing through said load circuit.

2,165,715
CAN OPENER
William M. Milne, Jersey City, N. J., assignor to Harold H. Hoile, Brooklyn, N. Y.
Application September 23, 1935, Serial No. 41,655
13 Claims. (Cl. 220—48)



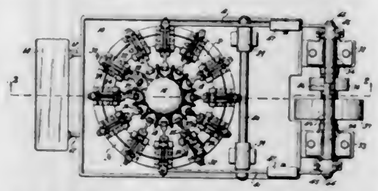
1. In combination with a sealed container of liquid under pressure, said container having a peripheral bead or ridge around its end, a shield comprising a domed portion having a locking flange with an inturned edge portion or portions adapted to fit and lock under said bead or ridge, but separable therefrom by sidewise sliding movement and spaced from an end thereof whereby upon piercing said end liquid forced from the container by the mentioned pressure is intercepted by said shield, and means pivotally associated with said shield for piercing said end only after the shield and container have been interengaged.

2,165,716
HAIR DRESSING APPLIANCE
Isabell C. Molleson, Baldwin, N. Y.
Application September 27, 1938, Serial No. 231,905
7 Claims. (Cl. 132—53)



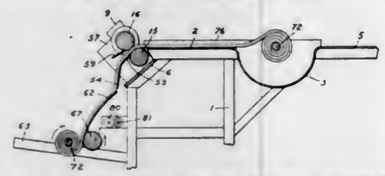
7. The combination with a narrow, resilient, light-weight, lockable hair strand support, of a hair strand having a woof finish at one end, loops extending from the finished hair strand end, a plurality of thread accommodating means provided at the upper portion of the support, the woof end of the hair strand being arranged in a wave-like fashion in respect to said support and means securing the hair strand to said support.

2,165,717
HAT BRIM STRETCHING MECHANISM
Rudolph G. Muller, Irvington, N. J.
Application April 8, 1938, Serial No. 200,866
13 Claims. (Cl. 223—15)



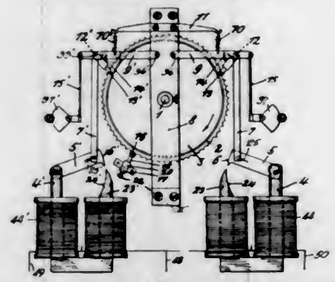
1. In a machine of the kind described, a work support including radially extendible brim spreader members, a frame ring concentric to and fixed in a horizontal plane below said work support and its brim spreader members, oscillatable brim stretcher members spaced around said work support in opposed staggered relation to said spreader members, carrier brackets pivotally mounted on said frame ring to support said stretcher members subject to movement into and out of cooperative working relation to said spreader members, a vertically reciprocable actuator ring concentric and adjacent to said frame ring, said actuator ring having means operatively connecting the same with said stretcher members, power operated means for vertically reciprocating said actuator ring, and foot treadle control means for simultaneously moving said spreader and stretcher members into cooperative working relation.

2,165,718
NOODLE MAKING MACHINE
Henry Chan Mun, San Francisco, Calif.
Application March 5, 1938, Serial No. 194,151
4 Claims. (Cl. 107—12)



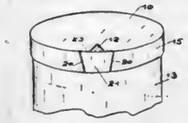
1. A noodle making machine comprising a frame; a table surface supported thereby; a roller supported by the frame adjacent to one end of said table surface and adapted to hold a strip of dough wound thereupon; a pair of spaced rollers supported by the frame at the other end of the table surface; said rollers being adapted to break, mix, and draw dough into a thin ribbon; a power driven roller; a free rotating roller adapted to have said ribbon of dough wound therearound and means for forcing the latter roller into frictional engagement with the power driven roller.

2,165,719
APPARATUS FOR REPRODUCING ROTARY MOTION
Richard Münnich and Hermann Blechschmidt, Dresden, Germany
Application April 2, 1937, Serial No. 134,624
In Germany April 6, 1936
3 Claims. (Cl. 172—126)



1. In an apparatus for reproducing rotary motion, a shaft, a pulley on the shaft, an impulse-controlled operating electromagnet, an armature connected to the electromagnet, a rocking arm, a friction block pivoted on the arm and arranged to engage the pulley, a check on the arm, a spring for holding the block against the check and away from the pulley, a link connected to the arm at one end, means for connecting the other end of the link to the armature in various positions, for holding the friction block against the pulley when the armature is attracted, a ratchet wheel connected to the pulley, and a spring-controlled pawl for engaging between the teeth of the ratchet wheel.

2,165,720
LID FOR HERMETICALLY SEALED CANS OR BOXES
Torvald Norland, Stavanger, Norway
Application December 11, 1936, Serial No. 115,396
In Norway May 25, 1936
4 Claims. (Cl. 220—48)



1. For use with a can having a pierceable tagger cover hermetically sealing the open end thereof: a detachable lid including a disc portion and a depending annular rim portion and an opening device for said tagger cover, said device being formed integrally with said lid, said device comprising a cutter portion adapted to pierce said cover, comprising a triangular portion integrally connected to said disc portion along the edge thereof, and an actuating member therefor of a width greater than the greatest width of said cutter portion and connected to said cutter portion along said disc edge, said actuating member extending the whole depth of said lid rim and being separated therefrom along opposite sides thereof by spaced slits in said rim and said actuating member normally lying in the plane of said rim at right angles to said cutter portion, the arrangement being such that on bending said actuating member upwardly and outwardly, around said edge of said lid, and into the plane of said disc, said cutter portion is bent downwardly at right angles so that, when said lid is applied to said can, said cutter portion will lie within the circumference of said can and will, on pressure being exerted on said lid in a downward direction, pierce said tagger cover and cut the latter on subsequent turning movement of said lid around said can.

2,165,721
PROCESS OF MANUFACTURING OF A BLOOD PRODUCT
James L. Norman, Oakland, Calif.
No Drawing. Application October 23, 1937, Serial No. 170,650
2 Claims. (Cl. 99—21)

1. The process of preparing fresh animal blood for consumption that comprises the steps of allowing the fresh blood from a slaughtered animal to stand in a quiescent state until coagulated, then reducing the coagulated blood into relatively small substantially uniform sized pieces and thereafter injecting live steam into a mass of said pieces of blood until the temperature of the mass is raised to about 212° F.

2,165,722
PROCESS FOR TREATING BLOOD
James L. Norman, Oakland, Calif.
No Drawing. Application January 26, 1938, Serial No. 187,005
5 Claims. (Cl. 99—21)

1. The process of preparing fresh animal blood for consumption thereof comprising the steps of placing the fresh blood from the slaughtered animal in a receptacle, coagulating the fresh blood

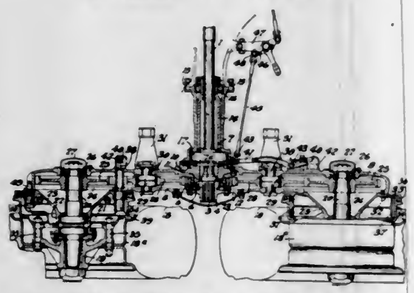
without increase in the temperature thereof, thereafter cutting the coagulated blood into pieces of substantially uniform-sized pieces and placing the cut pieces into natural water having a temperature of substantially 212° F. for a period of at least about 1½ to 3 minutes, and thereafter removing said pieces from the water.

2,165,723

AXLE MOUNTING AND DRIVING MECHANISM FOR THE DRIVING WHEELS OF MULTIPLE AXLE MOTOR ROAD VEHICLES

Oliver Danson North, Hunton Bridge, England, assignor to Scammell Lorries Limited, Watford West, England

Application June 21, 1938, Serial No. 214,910
In Great Britain May 11, 1938
4 Claims. (Cl. 180—22)



1. Oscillatable beam and driving mechanism for a pair of road driving wheels for a motor road vehicle adapted to have more than one pair of driving road wheels comprising a one piece tubular beam, a pair of openings in the outer side of the beam for insertion and removal of the gear wheels of the road wheel axles, a pair of cover caps fixed over said openings, bearings for the road wheel axles in said pair of cover caps, brake operating elements passing transversely through the beam and through said cover caps, a fixed axle casing, bearings in said fixed axle casing, a sleeve supported in said bearings and bolted to the centre of the beam, a bearing about the outer end of said sleeve, a primary gear wheel supported by said bearing, gear wheels in the one-piece beams fixed on the road wheel axles, a pair of transmission gear wheels in the beam meshing with the primary gear wheel and the gear wheels on the road wheel axles, a driving shaft passing through and beyond said sleeve and secured at its outer end to said primary gear wheel, and a cover cap closing a central hole in the outer side of said beam for access to the primary gear wheel and its bearing.

2,165,724

DISPLAY DEVICE

Francis Le Moyne Page, New York, N. Y., and John K. Jayne, New Canaan, Conn., assignors to Transit Advertisers, Inc., New York, N. Y., a corporation of New York

Application October 1, 1937, Serial No. 166,744
3 Claims. (Cl. 40—125)

1. In a device of the character described, and in combination, a plurality of supporting elements comprising portions capacitated to be secured to a wall and outwardly extending lug portions, a panel for receiving a poster or the like, said panel having a plurality of holes therein for hooking over the lug portions of said supporting elements, whereby said panel may be removably hung on said wall, and a molding-like frame for said panel, said frame being box-like in cross section and having holes in the rear



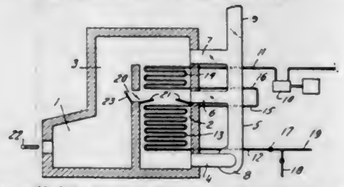
face thereof for hooking over the lug portions of said supporting elements, whereby said frame may be removably hung on said wall independently of said panel.

2,165,725

ART OF CRACKING HYDROCARBONS

Harry L. Pelzer, Houston, Tex., assignor to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application April 4, 1930, Serial No. 441,649
4 Claims. (Cl. 196—110)



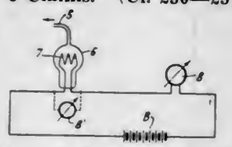
4. An oil heating furnace comprising a combustion space, a heating space, a flue, connections for passing gases from said flue to said heating space and to said combustion space, comprising conduits connecting said flue and said combustion space and heating space, and dampers in said conduits.

2,165,726

MEANS FOR DETECTING AND MEASURING ULTRA SHORT WAVE OSCILLATIONS

Hans Pigge, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application January 19, 1938, Serial No. 185,662
In Germany January 27, 1937
6 Claims. (Cl. 250—25)



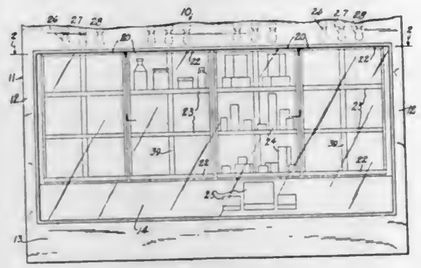
1. A measuring instrument including a conductor through which the current to be measured is passed and having a resistance which is a known function of frequency, a gas filled vessel enclosing said conductor, and pressure responsive means communicating with said vessel through a tubular passage for measuring the pressure of gas in said vessel.

2,165,727

DISPLAY STORE FRONT

Charles B. Reymers, Jackson Heights, N. Y.

Application June 10, 1938, Serial No. 212,896
1 Claim. (Cl. 211—1.6)



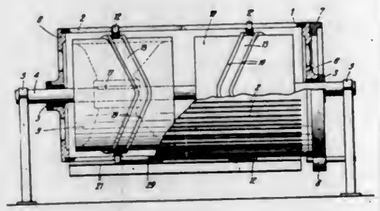
In a window display device adapted to provide a continuous display to extend across the entire width and height of an unobstructed show window, a plurality of carrier elements having different vertical axes of rotation, each element having three upright equally angularly spaced walls, said elements being in such close side by side relation that the different walls of the elements successively coact with each other to afford a continuous display upon intermittent rotation of the elements, each pair of walls of each element having triangular shelf members adapted to horizontally aline with each other in the different positions of the elements, and a unitary, wholly rotary drive means to cause intermittent rotation of the elements, the drive means including a plurality of one way clutches for the individual elements to turn the same in one direction, the clutches including drive members continuously engaged with each other during normal operation of the device, the clutches coacting with the elements so that desired elements can be manually turned in a reverse direction to lie with their adjacent walls approximately parallel to afford an aisle between the elements for access to the window.

2,165,728

APPARATUS FOR CREPING SHEET MATERIAL

Hermann Rosenfeld and Josef Morhard, Mannheim, Germany

Application March 30, 1936, Serial No. 71,788
In Germany April 1, 1935
12 Claims. (Cl. 154—30)



1. Apparatus for longitudinally creping a travelling web of sheet material capable of being crimped comprising, a movable conveyor, means for feeding the web into engagement with said conveyor, means for moving the conveyor so that the web is continuously moved forward, rigid means carried by said conveyor adapted to engage one edge of said web, other rigid means carried by said conveyor adapted to engage the other edge of said web, means for maintaining said web between said rigid means, at least one of said rigid means being movable laterally relative to the conveyor and inward with respect to the direction of the movement of said web as the conveyor moves forward whereby the lateral extent of the web is gradually reduced and the sheet material crimped.

2,165,729

MANUFACTURE OF IGNITED PHOSPHATES

Friedrich Rüsberg, Berlin - Niederschoneweide, Germany, assignor to Kali-Chemie Aktiengesellschaft, Berlin, Germany

No Drawing. Application February 1, 1937, Serial No. 123,521. In Germany February 10, 1936
3 Claims. (Cl. 71—45)

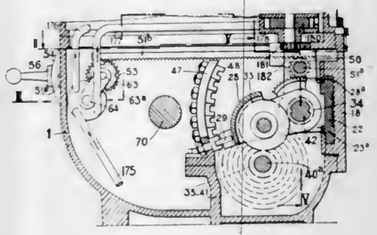
1. The process for the manufacture of ignited phosphate comprising calcining crude phosphate to sintering temperature in the presence of an alkali metal formate in amount sufficient to produce at least 90% of the resultant P_2O_5 in citrate-soluble form and until such conversion is effected.

2,165,730

SPEED CHANGING GEAR FOR MACHINE TOOLS, ESPECIALLY LATHES

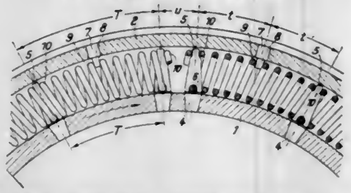
Otto Schaerer, Basel, Switzerland

Application March 12, 1938, Serial No. 195,651
In Germany March 25, 1937
4 Claims. (Cl. 74—348)



1. A speed changing gear for lathes and other machine tools, comprising a gear casing, a driving shaft and a driven shaft rotatably mounted parallel to one another in said casing, a stepped gear wheel cone fixed on one of the said shafts, a support rockably and slidably mounted on said other shaft, a pinion adapted to engage with any of the gear wheels of said cone rotatably mounted on said support, gear means for operatively connecting said pinion and the shaft on which said support is mounted and a setting mechanism for engaging said pinion into the desired gear step, the setting mechanism comprising means for the angular displacement of said support to bring the latter first from its neutral position into the position corresponding to the desired gear step and other means for the axial displacement of said support to move it thereafter in longitudinal guiding means so that the pinion on this support is, owing to its longitudinal guiding, positively slid into engagement with the gear step when the setting operation proceeds.

2,165,731
ELASTIC COUPLING
Carl Schürmann, Dusseldorf, Germany
Application June 14, 1937, Serial No. 148,243
In Germany April 2, 1937
13 Claims. (Cl. 64—15)

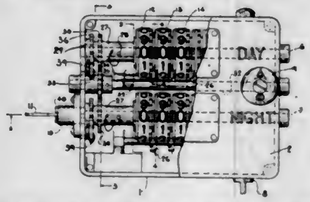


1. Elastic coupling, comprising an inner coupling member and an outer coupling member, outwardly directed toothlike stops on the inner coupling member, inwardly directed toothlike stops on the outer coupling member and initially tensioned helical springs interposed between a stop of the inner coupling member and a stop of the outer coupling member to insure equality of the maximum permissible compressive and tensile stresses in all spring portions during transmission of power, the stops carried on the inner coupling member projecting entirely through the springs, and the distance between two adjacent stops of one and the same coupling member being greater than the length of the interposed spring in untensioned state.

2,165,732
PROCESS FOR REMOVING CARBON DISULPHIDE FROM COKE-OVEN LIGHT OIL
Benjamin D. Sontag, Clairton, Pa.
No Drawing. Application October 17, 1936, Serial No. 106,264
1 Claim. (Cl. 196—32)

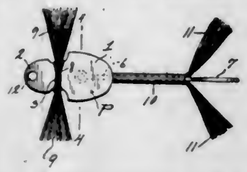
A process for removing carbon disulphide from coke-oven light oil or its fractions, including contacting the oil or fraction with a solution of from 5 to 20 percent ammonia by weight and from 5 to 20 percent sodium hydroxide by weight and finally utilizing substantially all the ammonia in said solution by maintaining the concentration of sodium hydroxide at 7 percent or more by weight.

2,165,733
LOCKED PICK COUNTER
Harvey Lewis Spaunburg, Bristol, Conn., assignor to Veeder-Root Incorporated, a corporation of Connecticut
Application August 19, 1935, Serial No. 36,858
9 Claims. (Cl. 235—144)



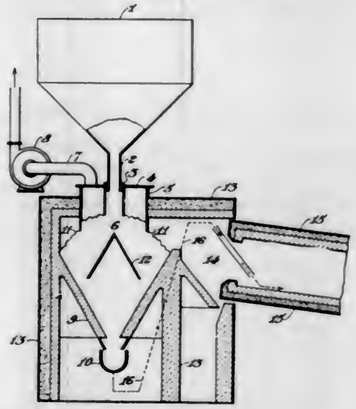
1. The combination with a counter having a resetting shaft and a plurality of operatively connected counter wheels separately rotatable on said shaft, of reset locking means comprising a lock having a rotatable key receiving member operatively connected with said shaft and a key also constituting a reset opreating member withdrawable in only one position of said shaft, and means for automatically advancing said wheels relative to said shaft following a resetting movement of said shaft in to a position permitting withdrawal of said key, but less than a complete resetting movement.

2,165,734
CAST BAIT OR BUG
Charles Stracener, Sweetwater, Tex.
Application August 11, 1938, Serial No. 224,367
1 Claim. (Cl. 43—48)



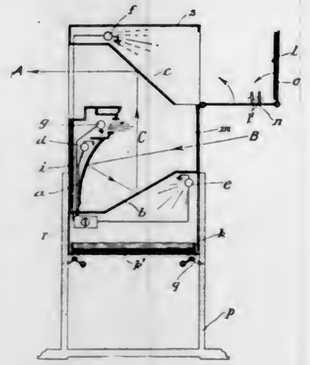
A cast bait or bug comprising a plate having its rear portion of a shield-like form and its forward portion substantially circular with an intermediate neck portion, a weighted lamination disposed over the under surface of the plate, a hook having a shank secured to the rear extremity of the plate at the transverse center thereof with the hook disposed upwardly with respect to the top of the plate, hair clusters secured to the neck portion of the plate and extending beyond opposite sides of the plate to provide wings, and hair clusters carried by the shank of the hook and extending rearwardly therefrom in divergence.

2,165,735
TREATMENT OF LIMESTONE
Theron C. Tayler, Detroit, Mich.
Application June 4, 1937, Serial No. 146,514
4 Claims. (Cl. 263—53)



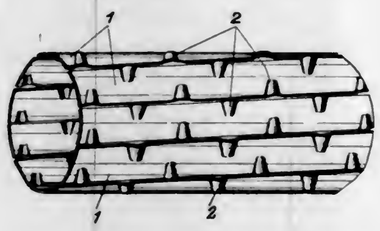
1. In a method of treating limestone to prepare the same for burning in a kiln, the steps which consist in feeding the stone into a zone wherein it is intermingled with hot gas to transfer heat from said gas to said stone, then into a zone out of contact with said gas and permitting said stone to soak in said zone, and thereafter introducing the stone from said second zone into a burning kiln.

2,165,736
ADVERTISING APPARATUS
Otto Twele, Berlin, Germany
Application January 14, 1937, Serial No. 120,626
In Germany January 24, 1936
7 Claims. (Cl. 40—130)



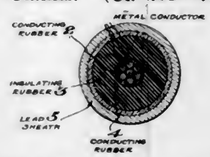
1. Advertising apparatus for exhibiting living pictures consisting of, a box-like frame with a transparent concave mirror on the inside of the front wall and opposite a rear opening in the box-like frame for the reception of the object to be reproduced, a lamp adapted to be switched on and off, a picture behind the concave mirror and visible when the lamp is switched on, a plane mirror arranged at an angle with respect to and in the vicinity of the concave mirror, and a further plane mirror arranged at an angle with respect to the first-named plane mirror and visible to the observer through a front sight opening in the box-like frame.

2,165,737
TUBULAR CONDUCTOR
Franz Unterbusch, Cologne-Mulheim, Germany, assignor to Felten & Guilleaume Carlswerk Actien-Gesellschaft, Cologne-Mulheim, Germany
Application November 4, 1937, Serial No. 172,847
In Germany November 26, 1936
1 Claim. (Cl. 174—130)



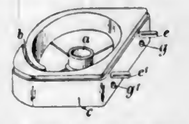
A tubular conductor consisting of a plurality of metal bands each having indentations along its edges at definite distances from one another which indentations project at right-angles to the plane of the band, said metal bands being stranded together with the said projecting indentations of the abutting edges staggered relatively to one another whereby a lateral displacement of the individual bands is prevented.

2,165,738
ELECTRIC CONDUCTING ELEMENT
Hendrik Adriaan Marius van Hoffen, Johannesburg, Transvaal, Union of South Africa, assignor to Naamlooze Vennootschap: Hollandsche Draad-en Kabelfabriek, Amsterdam, Netherlands, a corporation of the Netherlands
Application March 12, 1937, Serial No. 130,587
In the Netherlands September 16, 1931
2 Claims. (Cl. 201—76)



1. An electric element comprising a layer of conducting rubber having smooth boundaries free from ridges and a uniform thickness ranging from about 0.1 to 0.5 mm. and being the indurated and vulcanized residue of an applied suspension of a conducting solid in a solution of rubber in a solvent.

2,165,739
CASSETTE FOR CINEMATOGRAPHIC CAMERAS
Honoré Verkinderen, Mortsel, near Antwerp, Belgium, assignor to Gevaert Photo-Producten N. V., Oude-God, Antwerp, Belgium
Application July 30, 1938, Serial No. 222,281
In Austria August 27, 1937
2 Claims. (Cl. 242—71)



1. A single chamber cassette for cinematograph film having therein a film slot and a film centering sleeve for the film adapted to be assembled with a second cassette of the same construction to form a double chamber cassette of the kind having the centering sleeves spaced apart in the direction of the line of travel of the film and with their axes parallel comprising in one section of the peripheral wall of the chamber a number of projecting engaging elements and a like number of recessed engaging elements so positioned that when the section of the peripheral wall of said cassette is brought against the like section of the peripheral wall of a second cassette having the like number of each type of such engaging elements similarly positioned, the projecting elements of each will be engaged in the recessed engaging elements of the other and the limits of the two sections of the peripheral walls of the two cassettes provided with such engaging elements will coincide and the film slots of the two sections will be positioned to permit the film to be withdrawn from one section and rewound in the other section.

2,165,740
FOOTWEAR
Eugene B. Ward, West Springfield, Mass.
Application October 23, 1937, Serial No. 170,637
2 Claims. (Cl. 36—71)

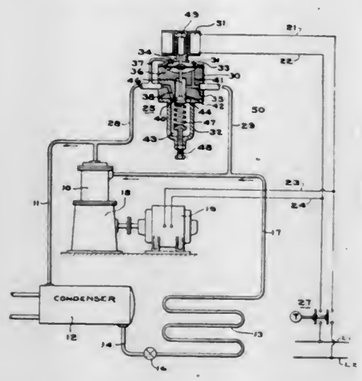
1. As a new article of manufacture, a two-part device for use in a shoe to support the metatarsal arch of the foot comprising in combina-

tion, an elongated shank member adapted to rest on and extend along the longitudinal arch of the sole of a shoe with its forward marginal edge disposed just rearwardly of the metatarsal arch of the foot when the shoe is worn, a convex plate member of rigid metallic material having its rear portion overlying the forward part of said shank member and its forward portion projecting forwardly beyond said forward marginal



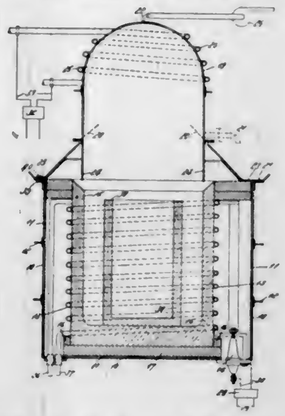
edge of the shank member so as to extend under the metatarsal arch of the foot when the shoe is worn, and a hinge connection between said rear portion of the convex member and the forward part of the shank member, all adapted and arranged whereby when the sole of the shoe is flexed as in walking it causes the convex member to move upwardly relative to the shank member against the metatarsal arch of the foot.

2,165,741
COMPRESSOR UNLOADER
Edward R. Wolfert, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 28, 1937, Serial No. 156,119
13 Claims. (Cl. 62—115)



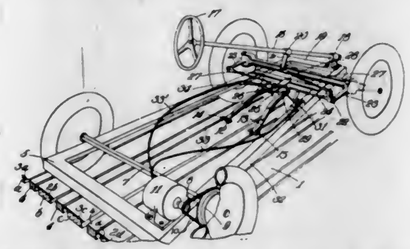
1. In refrigerating apparatus, the combination of an intermittently operated compressor having a high pressure side and a low pressure side, means for reducing the pressure on the high pressure side of said compressor when said compressor is stopped and means for rendering said first means inactive in response to a predetermined minimum pressure differential between the high pressure side and low pressure side of said compressor.

2,165,742
PROCESS FOR SEPARATING MAGNESIUM AND LIKE METALS WHICH SUBLIME FROM THEIR ORES AND COMPOUNDS
Harold Alexandre Blackwell and William Lawrence Turner, Garston, England
Application September 1, 1936, Serial No. 98,994
In Great Britain September 4, 1935
1 Claim. (Cl. 75—10)



A process for separating magnesium and like metals which sublime from magnesium and like ores which can be reduced, comprising mixing and reacting magnesium and like ore in sub-divided form with graphitic carbon in sub-divided form and heating the reaction mix by high frequency induction, the periodicity of which is sufficiently high to heat the reducing agent quickly to the temperature at which reduction of the magnesium ore and distillation of the resulting metal takes place without liquefaction or fusing of the reaction mix, and carrying out the reaction in a continuously evacuated container, pressure of the atmosphere within the container not being permitted to rise above 2 mm. mercury pressure, and condensing the vaporized metal.

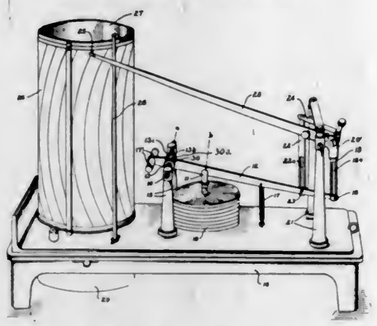
2,165,743
AMUSEMENT DEVICE
Arthur Henry Bland, Wembley, England
Application May 11, 1937, Serial No. 142,034
In Great Britain December 30, 1936
1 Claim. (Cl. 191—13)



A track for an amusement device of the kind specified comprising spaced-apart electrically conducting strips and non-conducting strips spaced apart from and interposed between said conducting strips, said conducting strips having turned-down edges to allow water to drain readily from the surfaces of said strips into the spaces

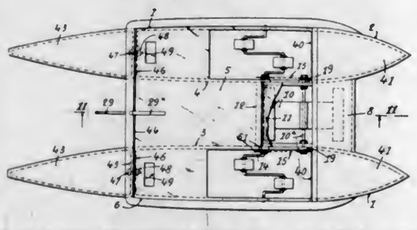
separating conductive and non-conductive strips and the tops of said conductive and said non-conductive strips lying substantially in the same plane.

2,165,744
TEMPERATURE COMPENSATING MEANS FOR A MEASURING INSTRUMENT
William G. Boettinger, Baltimore, Md., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 6, 1937, Serial No. 124,490
7 Claims. (Cl. 73—4)



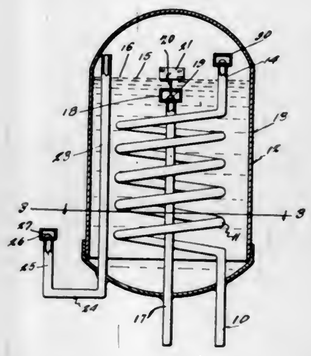
4. A device of the character described, comprising pressure responsive means, indicating means, means connecting said pressure responsive means and said indicating means comprising a system of pivoted levers, means connecting one of said levers to said indicating means at one end thereof, means connecting said one lever to said pressure responsive means at a point intermediate its ends, and means pivotally mounting the other end of said lever, comprising a bimetal rockshaft mounted for rotation about two fixed points whereby the expansion and contraction of said rockshaft alters the ratio of the two arms of said lever.

2,165,745
WATERCRAFT
Jean Eugène Canton, Cannes-la-Bocca, France
Application October 15, 1937, Serial No. 169,316
In France June 5, 1937
1 Claim. (Cl. 115—26)



A watercraft comprising two parallel spaced floats, a platform including two end portions each forming at least a part of the top wall of each float and a central portion extending between the opposite inner side walls of the floats to maintain the floats in parallel spaced relation, the outer side walls of said floats having portions extending above said platform, transverse wall portions forming together with said extended portions a watertight hull for protecting the passengers from the waves, a paddle wheel rotatably supported between the two floats, a crank shaft formed adjacent each end thereof with a pair of pedal cranks, a transmission between said crank-shaft and said paddle wheel, a passenger seat on the top wall of each float at the rear part of the hull and an opening provided in the top wall of each float in front of each seat and below the pedals so as to provide at this place a deep free space for the feet of the passengers.

2,165,746
VAPOR CONDENSER
William T. Cheek, Springfield, Mo.
Application May 10, 1938, Serial No. 207,139
3 Claims. (Cl. 257—25)



2. A vapor condenser of the character described comprising a shell, a coil in the shell, an inlet pipe to the coil, one end of the coil being provided with a valvular discharge opening, an outlet pipe extending from the shell and provided at its inner end with a float controlled valve, and a pressure release consisting of a pipe extending vertically in the shell and having its lower end disposed outwardly and provided at its outer end with a check valve.

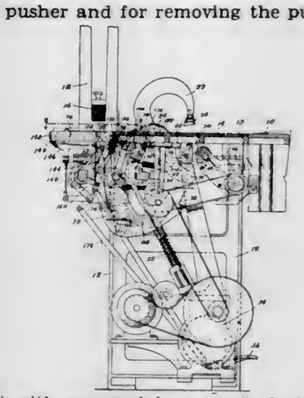
2,165,747
METHOD OF PREPARING SECONDARY ARYL AMINES
Elmer William Cook, New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware
No Drawing. Application March 17, 1937, Serial No. 131,452
10 Claims. (Cl. 260—576)

4. In a process for preparing dinaphthylamines by reacting a naphthylamine and a naphthol, the improvement which comprises carrying out the reaction in the presence of a naphthalene sulfonic acid.

2,165,748
ADDRESSING MACHINE AND CARD FEEDING MECHANISM THEREFOR
Harmon P. Elliott, Watertown, Mass.
Application January 31, 1938, Serial No. 187,835
12 Claims. (Cl. 101—48)

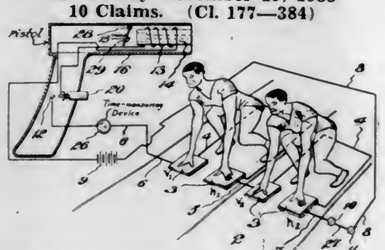
1. In an addressing machine, a holder for a stack of stencils, a stencil guideway, a pusher reciprocable under said holder to advance the stencils out of said holder and along said guideway, and means responsive to the movements of the pusher for positioning the pusher for engagement with a stencil in the advancing movement

of the pusher and for removing the pusher from



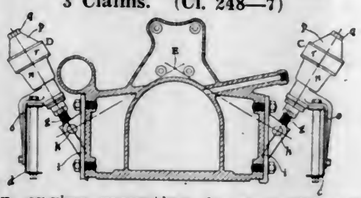
contact with an overlying stencil during the retraction of the pusher.

2,165,749
ARRANGEMENT FOR CONTROLLING THE START IN RACE COURSES
Trygve Henry Engholm and Guttorm Hernes, Oslo, Norway, assignors to N. Jacobsens Elektriske Vaerksted A/S, Oslo, Norway
Application November 12, 1936, Serial No. 110,533
In Norway November 19, 1935
10 Claims. (Cl. 177—384)



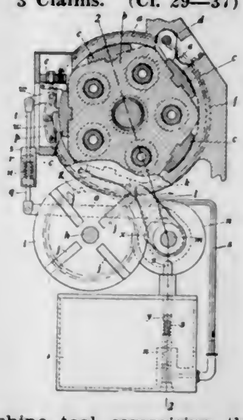
7. An arrangement for controlling the start of a race comprising a starting signal and means controlled by the contestants in the race for placing said signal device in condition for producing a signal only when all of the contestants are in their respective starting positions.

2,165,750
FLEXIBLE MOUNTING FOR INTERNAL COMBUSTION ENGINES
Joseph Hugh Stott Gardner and John Kynaston Gardner, Patricroft, near Manchester, England, assignors to L. Gardner & Sons Limited, Patricroft, near Manchester, England, a British company
Application July 23, 1937, Serial No. 155,348
In Great Britain October 16, 1936
3 Claims. (Cl. 248—7)



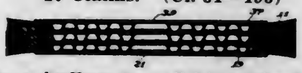
1. An engine mounting for a multi-cylinder internal combustion engine, comprising at least two bolts each pivotally secured to the engine, and disposed substantially tangential to a circle through the point of pivotal attachment of the bolt to the engine and having its centre on the natural axis of the engine, a collar upon said bolt axially adjustable therealong, a fixed point of support, a low rate compression coil spring surrounding said bolt and acting between said point of support and said collar, a part axially adjustable along said bolt and a high rate rubber buffer in fixed position so disposed as to be contacted by said part when said coil spring has been compressed beyond a predetermined amount.

2,165,751
LATHE AND OTHER MACHINE TOOLS
Dennis Gregory, Coventry, England, assignor to A. C. Wickman Limited, Coventry, England
Application August 22, 1938, Serial No. 226,158
In Great Britain September 8, 1937
3 Claims. (Cl. 29—37)



1. A machine tool comprising the combination with an intermittently rotatable cylindrical part adapted to carry a plurality of tools or work pieces, a bearing in which the said rotatable part is mounted with its axis horizontal, and means for securing the said rotatable part in its rest positions, of intermittently effective means for automatically introducing lubricant between the lower contiguous surfaces of the said rotatable part and bearing immediately prior to each movement of the said part.

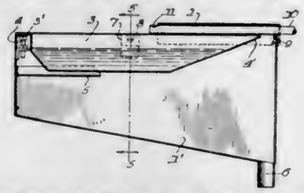
2,165,752
METHOD OF MAKING A BUFFING WHEEL OR WHEEL SECTION AND THE PRODUCT THEREOF
Elisha W. Hall, Scituate, Mass.
Application September 16, 1937, Serial No. 164,196
10 Claims. (Cl. 51—193)



10. In a buffing or polishing wheel or wheel section, the combination of an axially collapsed, cellular hub, and an annular body of buffing or polishing material comprising a plurality of layers adhesively secured to one another and to said hub.

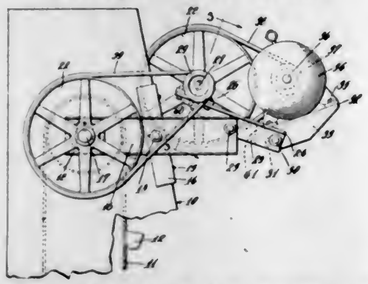
2,165,753
SELF-CLEANING WATER FOUNTAIN
Travis Roe Hobbs, San Dimas, Calif.
Application March 30, 1935, Serial No. 13,954
3 Claims. (Cl. 119—74)

3. In a device of the character described, a casing, a trough pivotally supported in the casing, said trough being constructed so as to dump its contents when filled, a lid covering the casing



approximately to the axis of the trough, and a supply pipe underneath said lid, said pipe having an outlet at its upper side in front of said lid.

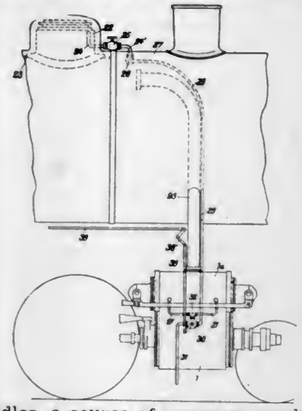
2,165,754
MOTION TRANSMITTING AND CONTROL APPARATUS
John Hornack, Cleveland, Ohio, assignor of one-half to Michael Kacur, Lorain, Ohio
Application September 26, 1936, Serial No. 102,657
14 Claims. (Cl. 74—242.15)



1. In combination: a first support, pivoted intermediate its ends; a first shaft journaled adjacent one end of said first support, said first shaft carrying a plurality of pulleys; a belt trained over one of said plurality of pulleys for driving mechanism spaced therefrom; a second support, pivoted intermediate its ends to said first support adjacent the other end of said first support; a second shaft journaled adjacent one end of said second support and carrying a plurality of pulleys; a motor supported adjacent the other end of said second support, and constructed and arranged to urge said one end of said second support away from said first shaft, said motor being provided with a pulley; a belt trained over said motor pulley and one of said pulleys carried by said second shaft; and a belt trained over the other of said pulleys carried by said second shaft and the other of said pulleys carried by said first shaft.

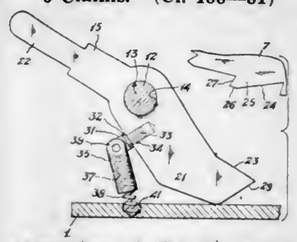
2,165,755
IDLE-RUNNING AND STARTING DEVICE FOR POPPET VALVE GEARED STEAM LOCOMOTIVES
Hugo Lentz, Berlin, Germany
Application April 19, 1937, Serial No. 137,832
In Germany March 25, 1937
8 Claims. (Cl. 121—127)

1. An idle-running and starting device for steam locomotives with poppet valve gear, comprising in combination with an engine cylinder, a housing extending parallel to said cylinder, two poppet valve aggregates in said housing one at each end of said cylinder, each aggregate comprising an admission valve and an exhaust valve, two spindles one slidable within the other and each spindle carrying one of said valves, a cam gear cooperating with said spindles to open said valves, closing pressure chambers surrounding



said spindles, a source of pressure, conduit leading from said source of pressure to said chambers and adapted to supply pressure medium to said chambers to close said valves, and a control element in said conduit having passages adapted in one position to establish communication between said chambers and the atmosphere and in a second position between said chambers and said source of pressure.

2,165,756
RATCHET MECHANISM FOR WINCHES
Charles C. Martin, Cleveland Heights, Ohio, assignor to David Round & Son, Garfield Heights, Ohio
Application August 20, 1938, Serial No. 225,945
6 Claims. (Cl. 188—81)

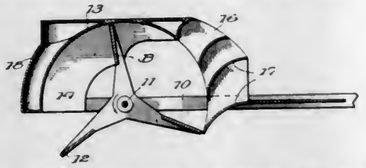


1. An apparatus of the character described having in combination, a winch drum carrying a ratchet wheel at one end, a supporting frame for said winch having a base plate and having an end plate in spaced relation to said ratchet wheel, a stub shaft projecting axially from said winch drum and received in a suitable aperture in said end plate, a pawl pivotally mounted on said end plate adjacent the forward lower corner thereof and having one end portion projecting beyond said end plate to provide a handle and the opposite end portion projecting beneath the ratchet wheel, and resilient means mounted on said base plate for selectively holding said pawl in engagement with said ratchet wheel and in retracted position.

2,165,757
PROPELLING AND LIFTING MECHANISM
Hugh E. McLaughlin, New York, N. Y.
Application June 2, 1938, Serial No. 211,451
3 Claims. (Cl. 244—19)

1. In a lifting and propelling mechanism for

air vehicles, the combination of a rotary shaft, propeller blades mounted on said shaft, a casing comprising arcuate side walls a substantial portion of which are above said shaft and an outer wall extending approximately one-half the length of the side walls, said casing being open rear-



wardly of the shaft, the side walls of the closed portion of the casing extending radially inwardly with respect to the outer wall and the side walls of the open portion extending radially outward, and circumferentially spaced vanes disposed transversely between the side walls of the open portion of the casing.

2,165,758

PROCESS OF TREATING VEGETABLE FIBERS

John R. Milson, Mansfield, Mass.

No Drawing. Application June 15, 1938, Serial No. 213,951

11 Claims. (Cl. 19—66)

1. The process of treating vegetable fibers which comprises subjecting the fibers to treatment in a bath consisting of an aqueous solution of a mixture of a fatty acid, a degumming and softening agent, a caustic material, and kerosene oil.

2,165,759

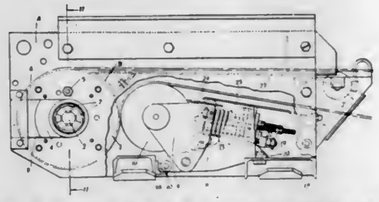
DRIVING UNIT FOR BELT CONVEYERS

Tage Georg Nyborg, Worcester, England, assignor to The Mining Engineering Company Limited, Worcester, England

Application December 16, 1936, Serial No. 116,214

In Great Britain March 6, 1936

6 Claims. (Cl. 198—203)



1. In a driving head or driving unit for a belt conveyer, an abutment carried by the frame of the driving head or unit, and a jockey-pulley unit comprising a sub-frame and a spring-pressed jockey-pulley mounted on said sub-frame, said sub-frame being notched for the engagement of said abutment.

2,165,760

BRAKE APPLYING MEANS

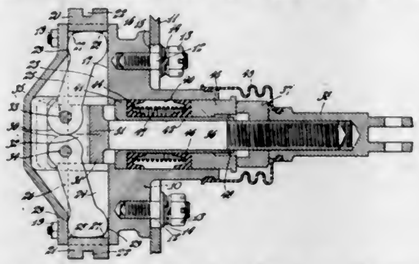
Frank Gordon Parnell, London, England, assignor to Automotive Products Company Limited, London, England

Application January 8, 1938, Serial No. 184,064

In Great Britain January 11, 1937

4 Claims. (Cl. 188—78)

1. In a vehicle wheel brake, a toggle link mechanism for spreading apart a pair of brake shoes, comprising a housing, a pair of elongated thrust links within the housing arranged end to end, curved surfaces on the inner ends of the thrust links in contact with one another, actuating means extending through the housing which displace the inner ends of the thrust links in a direction substantially at right angles to the di-



rection of thrust, curved surfaces on the outer ends of the thrust links and a pair of plungers slidable within the housing, at opposite sides thereof, with which the curved outer end surfaces of the thrust links coact, the contact made at both ends of the links during the application of the brake being of a substantially wholly rolling nature.

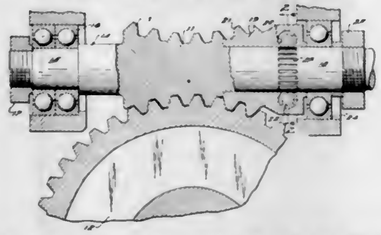
2,165,761

ADJUSTABLE WORM ELEMENT

Harry Pelphrey, Detroit, Mich.

Application March 15, 1937, Serial No. 130,906

5 Claims. (Cl. 74—440)



1. A worm for worm gearing of the Hindley type including a shaft having a portion of the thread of said worm integrally formed thereon, a collar on said shaft having a remaining portion of the thread of said worm formed thereon, a series of threads in the periphery of said shaft interiorly of said collar, an adjusting worm journalled for rotation in said collar adapted to mesh with the threads in the peripheral surface of said shaft whereby rotation of said adjusting worm will effect a rotation of said collar with respect to said shaft while retaining said collar in predetermined axial position thereon, and means for locking said adjusting worm against rotation to lock said collar in predetermined position with respect to said shaft.

2,165,762

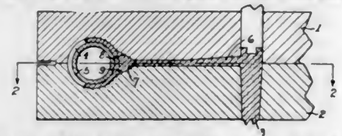
GATE FOR THERMOPLASTIC MOLDS

James S. Reid, Shaker Heights, Ohio, assignor to Thermo-Plastics, Inc., St. Clair, Mich., a corporation of Michigan

Application January 7, 1937, Serial No. 119,496

5 Claims. (Cl. 18—42)

2. A mold for molding thermoplastic material comprising separable mold sections defining a cavity when the mold sections are placed together, said cavity lying substantially one half in each section, a sprue in one section, a gate extending along the parting line of the mold sections and connecting the sprue and cavity, equal portions of the gate lying in the mold sections respectively, a portion of the gate adjacent the mold



cavity being flared toward the cavity in a plane normal to the parting plane of the mold sections in balanced and symmetrical relation to the mold cavity.

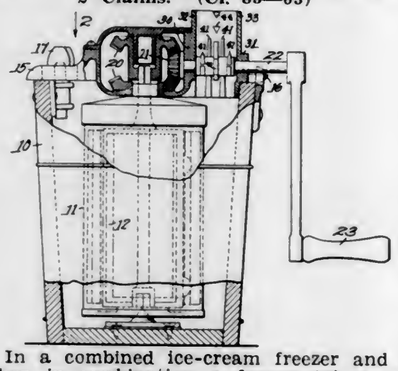
2,165,763

COMBINED FREEZER AND CUBE CRUSHER

Warren H. Prichard, Winchendon, Mass., assignor to The Alaska Freezer Co., Inc., Winchendon, Mass., a corporation of Massachusetts

Application November 4, 1936, Serial No. 109,083

2 Claims. (Cl. 83—63)



1. In a combined ice-cream freezer and ice crusher, in combination, a freezer tub, a gear head supported by and removably mounted on said tub, an ice crusher casing formed on and integral with said gear head and having a direct vertical downward discharge passage to the interior of said tub, a drive shaft extending through and rotatable in bearings in said removable gear head and casing, freezer-actuating connections from said shaft disposed axially of said tub, and crusher elements mounted on said shaft and rotatable entirely within said casing which is positioned wholly within an upward projection of the walls of said tub and substantially at one side of the freezer-actuating connections.

2,165,764

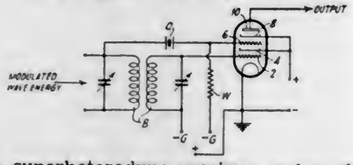
DEMODULATOR

Helmut Pitsch, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a corporation of Germany

Application August 4, 1937, Serial No. 157,245

In Germany September 30, 1936

1 Claim. (Cl. 250—27)



In a superheterodyne receiver, a demodulator of an intermediate frequency carrier which is modulated by only a single side band frequency, comprising a vacuum tube provided with at least a cathode, a signal control grid, a second grid and an anode, a band-pass filter of intermediate frequency connected between the signal grid and the cathode, a quartz crystal connected between the filter and the second grid for impressing only the intermediate frequency carrier on said second grid, means for applying a negative biasing potential to the control grid for maintaining the operating point of the tube on a linear portion of the grid voltage-plate current characteristic, and means for applying a negative biasing potential to the second grid such that the voltage variations applied thereto will vary the steepness of said tube characteristic about the operating point maintained by the potential on the first grid.

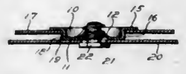
2,165,765

ADAPTING SHEET METAL DEVICE FOR THREADED FASTENERS

Bion C. Place, Detroit, Mich., assignor to Prestole Devices, Inc., Detroit, Mich., a corporation of Michigan

Application December 19, 1936, Serial No. 116,831

4 Claims. (Cl. 85—32)



1. A device to adapt a relatively thin sheet metal structure for the reception of a screw comprising a cup-shaped, metal member having a conical protuberance in its bottom wall extending within the cup, an opening in the top of said protuberance and a slit extending radially of said opening, the wall of said opening being disposed on a helix having the pitch of said screw, and means for securing said member to said thin metal structure to prevent lateral movement and dissociation of said device from said structure including a peripheral flange extending outwardly from the top of the cup-shaped member.

2,165,766

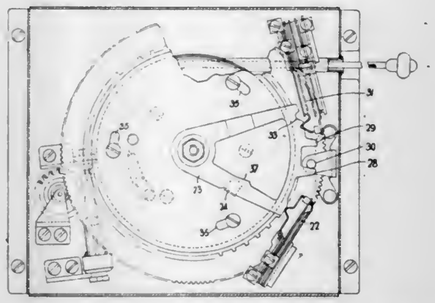
IMPULSE SENDER FOR USE IN TELEPHONE SYSTEMS

Charles Clarke Puckette, Coventry, England, assignor to The General Electric Company, Limited, London, England

Application February 6, 1937, Serial No. 124,377

In Great Britain March 2, 1936

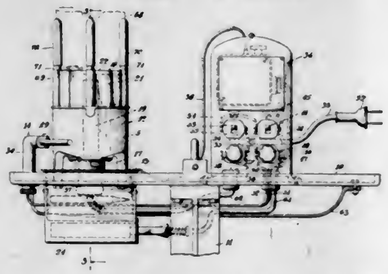
9 Claims. (Cl. 179—90)



1. In a telephone system, an emergency impulse sending device having a single manual starting means, driving means, means responsive to one complete operation of said manual means for

storing energy in said driving means and producing a complete code comprising impulses of predetermined number and spacing, and means for rendering said third means independent of said starting means during production of the code.

2,165,767
ADHESIVE HANDLING APPARATUS
John Frederick Smith, Quincy, Mass., assignor to Compo Shoe Machinery Corporation, New York, N. Y., a corporation of Delaware
Application February 8, 1938, Serial No. 189,363
14 Claims. (Cl. 219—44)



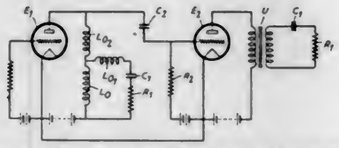
1. Apparatus for handling thermo-plastic adhesive, including a preheater for removing adhesive from a container comprising a receptacle adapted to receive an open adhesive container in inverted position, and a heating device located in said receptacle having an elevated upper face affording a heated seat for directly engaging the exposed surface of a firm body of adhesive in an open inverted container, said heater being shaped to have said container telescoped thereover as the body of adhesive therein progressively melts toward its bottom.

2,165,768
TIRE CHAIN
Earl A. Stuller, Chicago, Ill., assignor to Western Chain Products Co., Chicago, Ill., a corporation of Illinois
Application April 27, 1937, Serial No. 139,242
7 Claims. (Cl. 152—243)



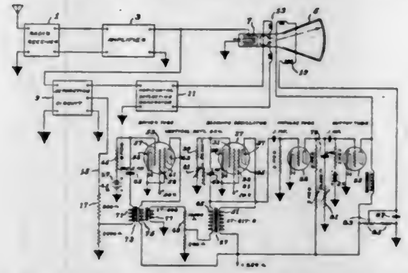
1. A tire chain comprising a series of interconnected looped links fashioned to lie in approximately a continuous plane; each of said links being formed of a single piece of stock bent into a double reverse shape to provide a center bar and end bars joined to the opposite ends of said center bar by bends located at opposite sides of the link; each of said end bars beyond said bends being formed to extend inwardly in the direction of the tire engaging surface of said plane to provide a tire engaging peak, and thence reversely toward the bend which includes the opposite end bar to extend thereacross on the road engaging side thereof, the last mentioned reversed portion of the end bar crossing said center bar and opposite end bar at points spaced inwardly of the peak of the bend, and a connecting union at each spaced point of crossing, the extreme ends of the end bars being turned outwardly of the side of the link.

2,165,769
DISTORTION-FREE AMPLIFIER CIRCUIT
Horst Tischner, Berlin-Steglitz, Joseph Flurl, Berlin-Karlshorst, and Hermann Wessels, Berlin-Oberschoneweide, Germany, assignors to Allgemeine Elektricitat Gesellschaft, Berlin, Germany
Application September 26, 1936, Serial No. 102,710
In Germany September 30, 1935
1 Claim. (Cl. 179—171)



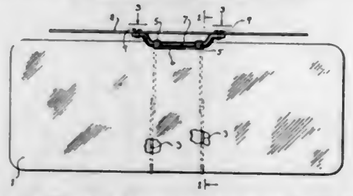
A system for the amplification of signals with reduced distortion comprising a pair of vacuum tubes, a load circuit included in the output circuit of each tube, means for coupling the output of one tube to the input of the other, the load circuit in one of said tubes being complex in nature and a function of frequency, and the load circuit of the other tube being a resistance-reactance network arranged to simulate the variation with frequency, both in magnitude and phase, of the impedance of said preceding named load circuit.

2,165,770
ELECTRICAL CONTROL APPARATUS
William A. Tolson, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application April 28, 1934, Serial No. 722,843
8 Claims. (Cl. 178—7.7)



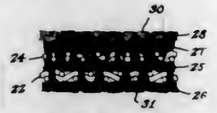
1. In combination apparatus for converting a plurality of electrical impulses having a certain characteristic and occurring at regularly spaced time intervals into a plurality of electrical impulses having a different characteristic, said apparatus including an oscillator of the self-oscillatory type comprising an electric discharge tube of the high vacuum type having a plurality of electrodes, means for causing said oscillator to oscillate and then become inactive in response to the application of a certain potential to one of said electrodes, the time interval between the start of said oscillation and the instant the tube becomes inactive being less than said regularly spaced time intervals and being greater than the duration of each of said first impulses, means for applying said certain potential to said one electrode in response to the occurrence of each of said first impulses, means for producing recurring electrical waves of saw-tooth shape in response to recurring electrical waves being impressed thereon, and means for impressing the impulses produced by said apparatus upon said last means.

2,165,771
SHIELDING MEANS FOR REAR VIEW MIRRORS
Joseph Vlasak, Racine, Wis.
Application March 31, 1938, Serial No. 199,113
1 Claim. (Cl. 88—77)



An attachment for mirrors comprising, a transparent plate, a short pintle rod terminating in offset arms and feet for securement to the plate, a one-piece spring wire clip for attaching the plate to a mirror, the said clip including leg portions folded at their lower ends to form grips, the upper terminals of the legs being bent to form pairs of offset gripping shoulders for engagement with a mirror edge, the said offset shoulders terminating with pairs of spaced coils connected by a straight stretch of the wire to form double pintle loops for encircling said pintle and engaging its offset shoulder portions to prevent relative longitudinal movement between the pintle rod and clip.

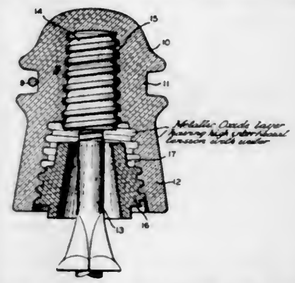
2,165,772
INDUSTRIAL AND PAPER-MAKERS' FELTS
Patrick H. Walsh, Boston, Mass., and Percival T. Gates, Montclair, N. J., assignors to Drycor Felt Company, Belleville, N. J., a corporation of New Jersey
Application May 4, 1937, Serial No. 140,652
1 Claim. (Cl. 28—4)



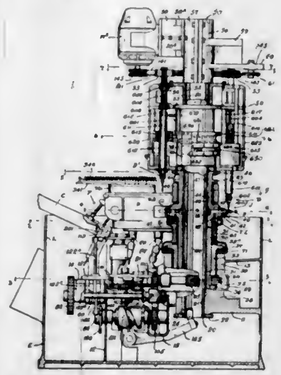
As a new article of manufacture, papermakers' felts in the form of an endless belt for use in papermaking machinery, made by needling a plurality of fleeces to a base fabric, said fabric consisting of non-stretching ply strands forming the warp, with cable twisted strands constituting the filling, a plurality of fleeces needled to the opposite surfaces of said base material, the top surface comprising a closely needled smooth fleece for carrying pulp material, and the bottom surface comprising a fleece of coarser form permitting drainage from the pulp material therethru free of clogging, and said coarser fleece constituting a wear-resisting surface for driving over pulleys.

2,165,773
INSULATOR FOR COMMUNICATION SYSTEMS
Herbert H. Wheeler, Millburn, N. J., and Orris McGinnis, Brooklyn, N. Y., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application July 8, 1932, Serial No. 621,478
5 Claims. (Cl. 174—209)

4. In a communication system comprising a line wire carrying signalling current of a value such that any substantial loss of the signalling current due to line leakage seriously interferes with the normal operation of the system, a pole line insulator supporting said line wire, said insulation comprising a vitreous body having a recessed under surface, said surface being resistant to electrical leakage under adverse atmospheric conditions and comprising a non-conductive metallic compound which when not contaminated by dirt and other foreign matter carried by the elements exhibits high interfacial tension with water, a supporting pin secured to said insulator within said recess and means for maintaining in service the initial high interfacial tension of said surface with water, said means comprising a bushing in said recess surrounding said pin but spaced therefrom, said bushing being shaped to obstruct the entrance of water and dirt into the recess.

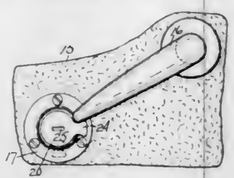


2,165,774
AUTOMATIC DRILLING AND COUNTERSINKING MACHINE
Leon T. White, Painesville, Ohio, assignor to The Economy Engineering Company, Willoughby, Ohio, a corporation of Ohio
Application October 3, 1936, Serial No. 103,895
17 Claims. (Cl. 77—23)



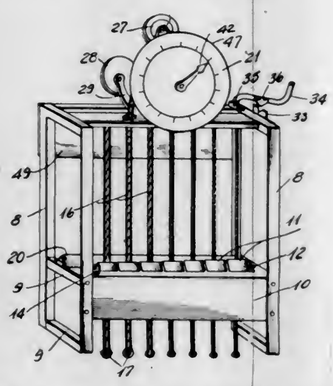
1. An automatic machine comprising in combination, a turret system, a plurality of work stations included therein, means for maintaining said turret system in rotation constantly as to direction and speed, an attachment adapted to join for a limited arc in the movement of one station of said turret system and to return to its starting point for similar participation in the movement of the next successive station, said turret system comprising means for performing the principal operation upon the work, and for discharging the completed work, said attachment comprising means for feeding work to the turret system including positioning it therein.

2,165,775
LOCK
Robert H. Winslow and Mallon J. Sheffield, West Hartford, Conn.
Application March 19, 1938, Serial No. 196,806
7 Claims. (Cl. 70—210)



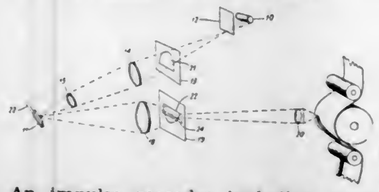
1. In combination with the latch handle of a door including its spindle, locking mechanism mounted on the door independently of said handle including its spindle and comprising a locking member movable into position for locking engagement with said handle, means for retaining said member in said locking position, and means to receive an instrument for release of said locking member for movement from locking position.

2,165,776
ROPE MEASURING DEVICE
George A. Witt, Saginaw, Mich., assignor, by mesne assignments, to Metal Display Equipment Company, Muskegon, Mich., a corporation of Michigan
Application April 27, 1936, Serial No. 76,713
1 Claim. (Cl. 33—135)



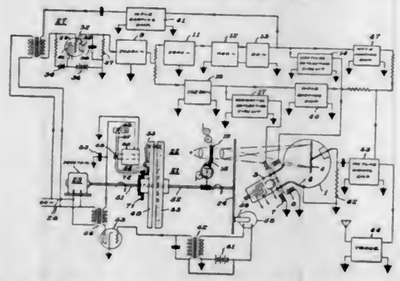
A rope dispensing device including a frame, a shaft journaled thereon, a friction wheel solid on the shaft and adapted to be driven by contact with the rope to be measured, an arm pivotally mounted on the frame and a sheave journaled on the end thereof, a spring attached to said frame and to the arm for forcing said sheave towards the friction wheel and the rope into frictional engagement therewith, a toothed section on the shaft, a gear revolvably mounted on said shaft adjacent the toothed section, additional gears mounted on said frame and meshing with the toothed shaft and the first mentioned gear for driving said gear on said shaft from the friction wheel, a graduated dial on the frame, and a spring pressed indicator arm journaled on the shaft and adapted to be driven by said first mentioned gear for registering the length of rope as it travels in contact with the friction wheels.

2,165,777
IMPULSE RECORDER
Max C. Batsel, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application July 16, 1935, Serial No. 31,589
9 Claims. (Cl. 179—100.3)



1. An impulse recorder including means for producing a light beam which varies in intensity from one edge to another along its direction of movement, means for moving said beam in accordance with the impulses to be recorded, and an aperture varying in width restricting said beam to such a shape as to preclude material variation in the relation between the said impulses and the light transmission of the impulse record.

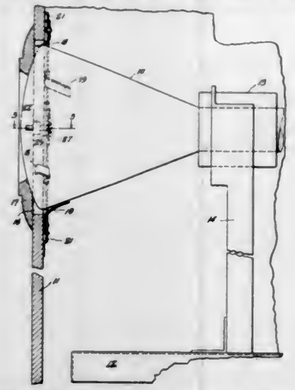
2,165,778
TELEVISION TRANSMITTER
George L. Beers, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 27, 1937, Serial No. 128,071
7 Claims. (Cl. 178—7.2)



1. In a television transmitter for the transmission of pictures on a moving picture film, a cathode ray tube having a screen structure, a moving picture projector for projecting said pictures upon said screen structure at a rate at least equal to that of persistence of vision, a synchronous motor for driving said projector, means for effecting a scanning action in said cathode ray tube for deriving picture signals from said screen structure, means for maintaining a fixed time relation between said scanning action and said picture projection, and means for shifting automatically the phase relation between said scanning and the projection of said pictures in response to said projector starting up in an undesired phase relation with respect to said scanning.

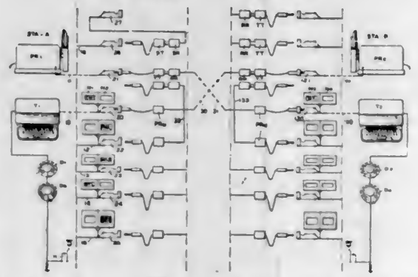
2,165,779
CATHODE RAY TUBE SUPPORT
Albert Blain, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1937, Serial No. 151,134
3 Claims. (Cl. 250—141)

1. Cathode ray tube apparatus comprising a cabinet in which is to be mounted a cathode ray tube of the type comprising an evacuated envelope which is enlarged at one end whereby said envelope has a point of maximum diameter and has a smaller diameter on each side of said point and which is of comparatively small diameter at the other end, said cabinet having a front panel, said panel having an opening therein large enough to admit the enlarged end of said tube, a plurality of springs located around said opening and



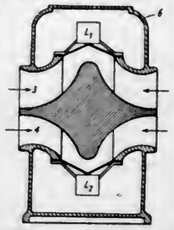
so mounted on said panel as to engage the enlarged portion of said envelope on one side of said point, and a plurality of springs located around said opening and so mounted on said panel as to engage the enlarged portion of said envelope on the opposite side of said point whereby said tube may be moved into said cabinet from the front side thereof into a position where said springs grip said enlarged portion to hold it securely in position.

2,165,780
TELEGRAPH EXCHANGE SYSTEM
William B. Blanton, Merrick, N. Y., and Roy B. White, Annandale, N. J., assignors to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application April 28, 1936, Serial No. 76,830
20 Claims. (Cl. 178—2)



1. In a multi-office telegraph exchange system, the method of communication between two stations at separate exchanges which comprises signaling the designation of the wanted exchange independently of the telegraph receiving instruments in the system, connecting a trunk to the calling station, cumulatively storing the message transmitted over said trunk at the exchange of the called station and repeating the message to the printer at the called station after storage of a considerable portion of the message has been effected.

2,165,781
LOUDSPEAKER SYSTEM
Erich Brandt, Berlin-Lichterfelde, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 16, 1936, Serial No. 85,508
In Germany August 19, 1935
3 Claims. (Cl. 179—81)

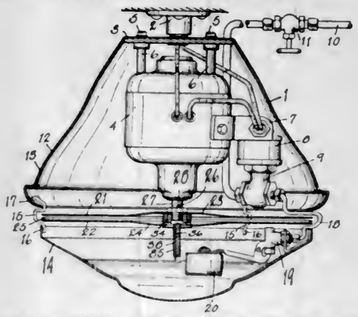


2. In combination, a pair of loudspeakers disposed within a common enclosure, said speakers being coaxially mounted and facing one another as regard to the direction of the emitted sound, said enclosure having sound ports, one on either side of the speaker axis, and means within the enclosure for deflecting the sound radiation from each speaker through both of said sound ports.

2,165,782
HALOGENATION OF TERTIARY ALCOHOLS
Benjamin T. Brooks, Old Greenwich, Conn., assignor to Standard Alcohol Co.
No Drawing. Application October 2, 1937, Serial No. 167,079
11 Claims. (Cl. 260—633)

1. A process of halogenating tertiary alcohols, which comprises treating a tertiary alcohol with a halogen selected from the group consisting of chlorine and bromine in the presence of a substantially neutral compound capable of effecting metathesis with an acid.

2,165,783
HUMIDIFIER
Walter S. Burgess, Jr., Benton Harbor, Mich.
Application August 19, 1937, Serial No. 159,909
14 Claims. (Cl. 299—63)



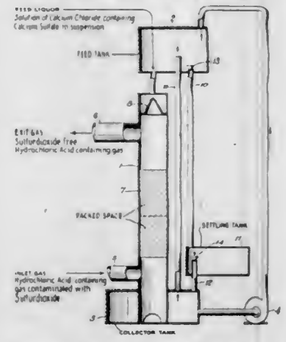
1. In a humidifier, the combination of a pair of horizontal disks disposed in spaced relationship to one another, the upper disk having an upwardly concaved central portion and the lower disk having a downwardly concaved central portion and having a peripheral flange extending upwardly into spaced relationship with the periphery of the upper disk, a fluid tank below the disks, means for rotating said disks about their

vertical axis, and an axially extending water pick-up rotatable with said disks comprising an axially extending tube, a rod closely fitted in said tube and having a key-way along one side thereof forming an eccentric passage communicating between the tank and the space between the disks, and a wire loosely disposed in said passage and retained loosely therein.

2,165,784
TREATMENT OF ACID GASES

Leslie James Burrage, Liverpool, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

Application February 12, 1937, Serial No. 125,515
In Great Britain February 14, 1936
5 Claims. (Cl. 23—154)

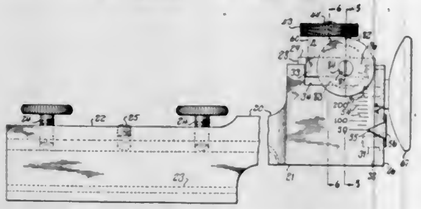


1. A process for obtaining hydrochloric acid-containing gas substantially free of sulfur dioxide which comprises treating hydrochloric acid-containing gas contaminated with sulfur compounds in the presence of oxygen with an aqueous medium containing in solution a soluble calcium salt and hydrochloric acid, and in suspension calcium sulfate, under conditions such that the partial pressure of sulfur dioxide in the gas is greater than the vapor pressure of sulfur dioxide in the aqueous medium.

2,165,785
ADJUSTABLE SIGHT MOUNT FOR FIREARMS

Frank F. Burton, Mount Carmel, Conn., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware

Application April 9, 1937, Serial No. 135,969
7 Claims. (Cl. 33—56)

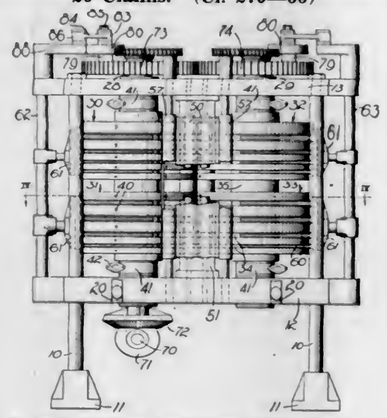


1. An adjustable sight-mount for firearms comprising: a mounting-member; a slide member; sight-means carried thereby; and adjusting-means constructed and arranged to shift the said slide-member and sight-means with respect to the said mounting-member and including an adjusting-screw and two complementary nut-like elements associated with the slide-member, one at least of which is in the form of a resilient arm, and both of the said nut-like portions being in threaded engagement with the said adjusting-screw under substantially constant axial tension and resiliently displaced with respect to each other along the axis of the said adjusting-screw, whereby the threads thereof are continuously forced into engaging relation to the threads of the adjusting-screw.

2,165,786
PAPER NAPKIN MACHINE

Peter J. Christman, Green Bay, Wis., assignor to Paper Converting Machine Co., Green Bay, Wis., a corporation of Wisconsin

Application May 22, 1937, Serial No. 144,147
20 Claims. (Cl. 270—66)



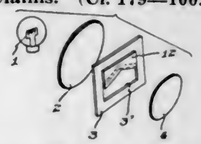
1. A web folding machine comprising a pair of cooperating folding rolls for receiving a web into the nip therebetween, means associated with each of said rolls for sequentially holding portions of said web against said rolls, mechanism synchronizing the sequential operation of said means to fold and hold the leading end of said web first against one roll and then the other and means for severing the successively folded leading ends from the web.

12. A fold roll comprising a cylindrical member having axial passageways thru the mid-portion thereof and radial passages communicating with the passageways defining a plurality of holes in the periphery of the member.

2,165,787
ANTIGROUND NOISE RECORDING SYSTEM

Glenn L. Dimmick, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 13, 1937, Serial No. 125,544
6 Claims. (Cl. 179—100.3)



1. Sound recording apparatus comprising means for exposing a variable area of the sound record film in accordance with the sound vibrations to be recorded and means for additionally exposing said area with the exception of the portion adjacent the edge thereof.

2,165,788
FLEXIBLE WOOD FLOORING

Armin Elmendorf, Winnetka, Ill.

Application October 29, 1937, Serial No. 171,692
2 Claims. (Cl. 20—7)

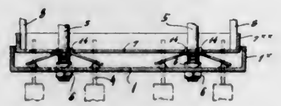


1. A flooring material composed of a layer of wood tiles overlying and secured to a flexible backing membrane, said backing membrane being formed of waterproofed fibers felted so as to leave the normal pores in the membrane open to permit vapors of water or alcohol to penetrate the same.

2,165,789
STICK HOLDER FOR MANUFACTURING FROZEN CONFECTIONS ON STICKS

Edwin L. Elwell, Baltimore, Md., assignor to Eskimo Pie Corporation, Bloomfield, N. J., a corporation of Delaware

Application February 2, 1938, Serial No. 188,385
1 Claim. (Cl. 294—87)

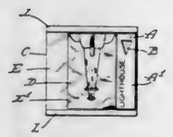


A stick holder for manufacturing frozen confections on sticks, comprising a plate formed with a plurality of rows of apertures, each adapted to receive a stick, each row of apertures comprising a plurality of sets of two apertures each, a set of gripper members for each set of apertures, each gripper member comprising a plate formed with a stick-receiving aperture, an angularly extending fulcrum section adapted to abut the plate, a spring engaging said fulcrum section of the gripper member for holding the latter angularly with respect to the plate, and means moving the gripper members simultaneously to change their said angular positions.

2,165,790
LABEL AND MARKER FOR LANTERN SLIDES

Albert W. Engel, Chicago, Ill.

Application August 15, 1938, Serial No. 224,867
6 Claims. (Cl. 40—2)

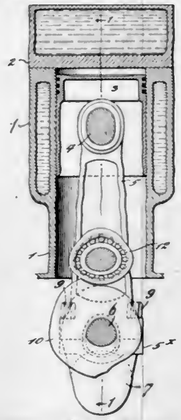


1. In a lantern slide of substantially square outline and including a mask having a sight opening of oblong shape symmetrically disposed within said outline, a label applied over said mask along one longer side of the sight opening, said label being of a color contrasting with that of the mask and having an aperture near one end to provide a signal marking through which the contrasting color of the mask is visible for indicating the proper positioning of the slide when inserted in a projector.

2,165,791
DRIVING MEANS FOR INTERNAL COMBUSTION ENGINES

Michael J. Farrell, Atlantic Highlands, N. J., assignor of one-fourth to Francis J. McKeever, Jersey City, N. J.

Application July 16, 1937, Serial No. 153,891
1 Claim. (Cl. 74—44)

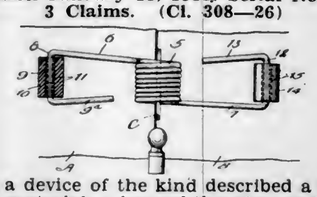


In driving means for internal combustion engines, a cylinder, a piston mounted for reciprocation in the cylinder, a crank shaft having a crank pin, a connecting rod carrying the piston through said crank pin, rollers carried at opposed faces of the piston rod and pivotally held thereon against bodily movement, cam members carried by the crank and movable therewith and in contact with said rollers, and an elongated bearing aperture formed in the base section of the piston rod and embracing the crank pin.

2,165,792
DOOR SPRING

Alvin H. Floreth, Chicago, Ill., assignor to Gardner Wire Co., Chicago, Ill., a corporation of Illinois

Application January 18, 1938, Serial No. 185,563
3 Claims. (Cl. 308—26)



1. In a device of the kind described a roller of cushion material; a journal therefor; and a coiled wire bushing interposed between and in contact with said roller and journal whereby said journal is prevented from contacting the cushion material of said roller, and a spiral line-contact bearing is provided between said bushing and journal.

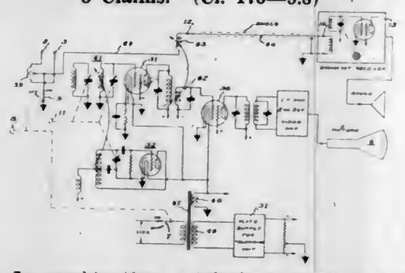
2,165,793
DENTAL CASTING ALLOY

Cornell Joel Grossman, Millburn, N. J.

No Drawing. Application May 2, 1939, Serial No. 271,284
1 Claim. (Cl. 75—171)

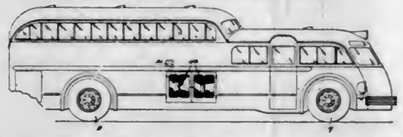
An alloy suitable for use in the manufacture of substantially sound non-oxidized cast dentures and the like, said alloy consisting of chromium 3–45%; boron 1–10%; remainder cobalt.

2,165,794
TELEVISION APPARATUS
Ralph S. Holmes, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application September 30, 1935, Serial No. 42,908
8 Claims. (Cl. 178—5.8)



1. In combination, a television receiver and a broadcast sound receiver, a short wave antenna, a transmission line connecting said antenna to said television receiver, and switching and circuit means for selectively utilizing said antenna as a short wave antenna for said television receiver or said antenna and said transmission line in combination as a long wave antennna for said broadcast receiver.

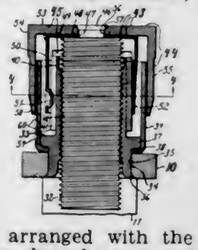
2,165,795
RADIATION OF HEAT FROM CENTER-MOUNTED HORIZONTAL ENGINES
John G. Holmstrom, Seattle, Wash., assignor to Kenworth Motor Truck Corporation, Seattle, Wash., a corporation of Washington
Application March 7, 1938, Serial No. 194,391
15 Claims. (Cl. 180—54)



1. In a coach having a passenger compartment the seat deck of which is interrupted transversely of the coach by a depressed center aisle-way, the combination therewith of a "pancaked" engine mounted under the aisle-way with its drive shaft positioned approximately on the longitudinal median line of the coach, a water-cooling radiator supported laterally of the engine below one of the main seat decks of the passenger compartment to position its radiation core transversely of the coach, connections for circulating water through said radiator and the engine, a fan mounted forwardly of the radiator core, a hood shrouding said fan and extending as a tunnel to the core of the radiator, pulleys fixed to the arbor of the fan and to the forward end of the engine drive shaft, and belt connection between said pulleys for transferring power laterally from the motor to the fan.

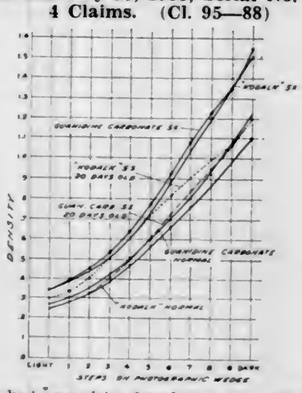
2,165,796
TELESCOPE MOUNT FOR FIREARMS
Frederick L. Humeston, Hamden, Conn., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware
Application August 1, 1938, Serial No. 222,319
5 Claims. (Cl. 33—50)

1. A telescope-mount for firearms, comprising: a telescope-receiving frame; a tubular detent-post connected to the said frame; an adjustment-screw having a threaded connection with the interior wall of the said tubular detent-post, the said detent-post and adjustment-screw being provided with interengaging detents at the outer peripheral surface of the former; a fixed sleeve



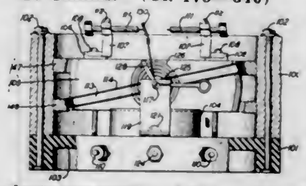
concentrically arranged with the said detent-post; and a cup-shaped cap mounted on the adjusting-screw, the said cup-shaped cap being movable rotationally and endwise relatively to the said fixed sleeve and in juxtaposed relation thereto to provide a housing for the said interengaging detents.

2,165,797
PHOTOGRAPHIC DEVELOPER
Louis C. Jones, Greenwich, Robert Bowling Barnes, Stamford, and Garnet Philip Ham, Old Greenwich, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine
Application July 13, 1938, Serial No. 218,972
4 Claims. (Cl. 95—88)



1. A photographic developer for silver halides containing as its alkalinity producing agent guanidine carbonate.

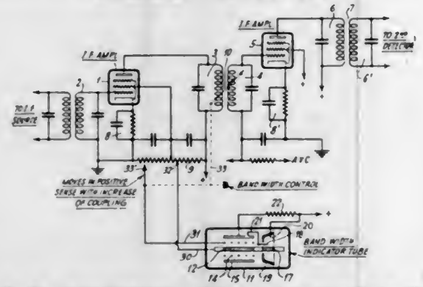
2,165,798
RELAY
Walter F. Kannenberg, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 21, 1937, Serial No. 121,600
10 Claims. (Cl. 175—340)



1. An electromagnetic device comprising a magnet, a yoke of magnetic material surrounding

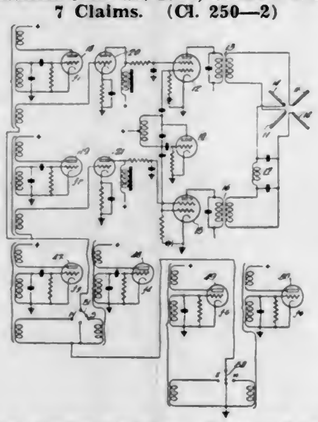
said magnet and forming air-gaps wish the poles thereof, a rotatably supported coil surrounding said magnet and rotatable upon its energization through said air-gaps, and means for adjusting the width of said air-gaps at points adjacent to the extremes of movement of said coil.

2,165,799
BAND WIDTH INDICATOR CIRCUIT
Charles N. Kimball, East Orange, N. J., and Edward W. Wilby, Staten Island, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application January 28, 1937, Serial No. 122,718
5 Claims. (Cl. 250—20)



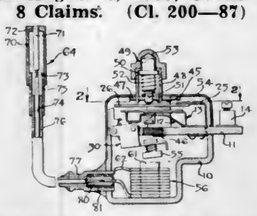
2. In combination with an intermediate frequency transmission network of the type including at least two coupled resonant circuits which are tuned to a common, operating frequency, means for varying the band width of the coupled circuits, an electron ray indicator tube of the type including an electron-responsive fluorescent anode and a control electrode, a source of bias connected to the control electrode for varying the potential of the latter, and means, simultaneously operative with said band varying means, for adjusting the magnitude of the bias applied to said control electrode thereby to vary the area of fluorescence on the said anode.

2,165,800
DIRECTION CONTROL DEVICE
Winfield R. Koch, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 22, 1937, Serial No. 149,622
7 Claims. (Cl. 250—2)



1. In a system for controlling the path of a moving object, the combination of a transmitter located at the control point and provided with a pair of crossed horizontal dipole antennas arranged to produce a pair of fields angularly displaced with respect to one another, means for modulating one of said pair of fields at a first modulating frequency, means for equally modulating the other of said pair of fields at a second modulating frequency, means including a first selector switch for simultaneously modulating both of said fields at either a third or a fourth modulating frequency, and means including a second selector switch for simultaneously modulating both of said fields at either a fifth or a sixth modulating frequency, a receiver antenna located on said object, means automatically responsive to the relative intensity of rectified currents corresponding to said first and second modulating frequencies for maintaining a given orientation between said receiving antenna and said transmitting antenna, means responsive to currents corresponding to said third and fourth modulating frequencies for respectively raising and lowering a first pair of steering fins, and means responsive to currents corresponding to said fifth and sixth modulating frequencies for respectively raising and lowering a second pair of steering fins at right angles to said first pair, whereby said object is automatically prevented from rotating about its axis, and its direction is controllable by means of the selection of the proper modulating frequencies by said selector switches.

2,165,801
SWITCH
Carl G. Kronmiller, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application August 6, 1936, Serial No. 94,529
8 Claims. (Cl. 200—87)

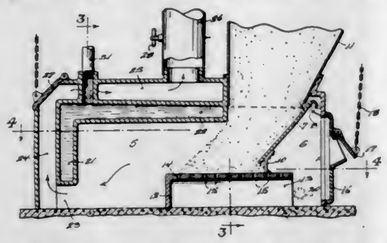


1. In combination, a switch movable between first and second controlling positions and biased to a first position, holding means comprising an electromagnet for holding an element associated with said switch in a position wherein said switch is biased to said second controlling position, actuating means for moving said switch, without moving the same to said second controlling position, to a position wherein said element is held by said holding means if said electromagnet is energized, said biasing means being operative upon further movement of said actuating means to move said switch to said second controlling position, and means to prevent movement of said switch from said second circuit controlling position by said actuating means.

2,165,802
SAWDUST-BURNING FURNACE
Arthur J. Longtin, Seattle, Wash.
Application March 15, 1937, Serial No. 130,912
3 Claims. (Cl. 122—136)

2. A furnace providing a combustion chamber of which the roof is water-jacketed for the conduction of heat and wherein the cell forming said

jacket has its lower wall approximately horizontal and the ceiling disposed at an oblique angle thereto and located such that the narrow end of the figure produced by said horizontal lower wall and oblique ceiling lies at the end of the chamber re-



mote from the gas-discharge end, said cell being provided with connections for the hot and cold water pipes of a water-circulating system, the hot water connection thereof lying in the ceiling of the cell at the deep end of the latter.

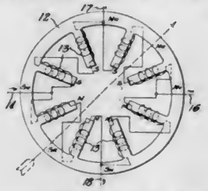
2,165,803

CATHODE RAY DEFLECTING DEVICE

Ioury G. Maloff, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application April 25, 1936, Serial No. 76,377

5 Claims. (Cl. 250—157)



1. A deflecting device for a cathode ray tube, said device comprising a pair of diametrically opposed deflecting coils so connected that their opposing poles are of unlike polarity, and a second pair of diametrically opposed deflecting coils so connected that their opposing poles are of unlike polarity, adjacent poles of said pairs being of like polarity, said coils being so located that the axis of one pair of coils and the axis of the other pair of coils intersect at an angle which is substantially greater than zero degrees and less than 90 degrees.

2,165,804

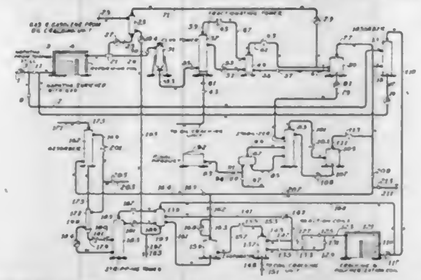
METHOD AND APPARATUS FOR PRODUCING MOTOR FUEL

Percy A. Maschwitz, Toledo, Ohio, assignor to The Pure Oil Company, Chicago, Ill., a corporation of Ohio

Application August 13, 1936, Serial No. 95,745

12 Claims. (Cl. 196—9)

1. The method for producing motor fuel which comprises contacting low octane naphtha with olefin-containing hydrocarbon gas under conditions of temperature and pressure to absorb heavier constituents of the gas, subjecting the enriched naphtha in a heating and reaction zone to conditions of temperature and pressure suitable for increasing the octane rating of the naphtha and for converting a portion of the absorbed gas to hydrocarbons boiling within the motor fuel range, conducting gas not absorbed by the naphtha to heating and reaction zones entirely separate from said first mentioned heating and reaction zone and subjecting it to temperatures and under pressures suitable for converting a portion thereof to hydrocarbons boiling within the gasoline range, separating the gasoline boiling constituents from the gas conversion



operation from the gases, combining said constituents with the total products from the enriched naphtha conversion operation, and subjecting the combined products without prior fractionation to clay treatment followed by fractionation to produce finished motor fuel.

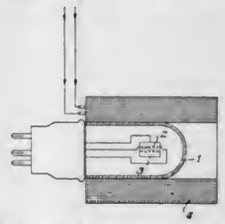
2,165,805

GLOW DISCHARGE DEVICE

Raymond Bainbridge Morgan, Honiton, England, assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Original application January 6, 1930, Serial No. 418,920. Divided and this application February 14, 1936, Serial No. 63,963. In Great Britain February 12, 1929

2 Claims. (Cl. 176—122)



1. A glow discharge device comprising an envelope containing mercury vapor, a helical filamentary cathode disposed in said enevelope, a cylindrical anode surrounding said cathode and having its axis substantially coincident with that of said helical cathode, and a coil arranged around said envelope, said cathode lying substantially along the axis of said coil.

2,165,806

ELECTRIC DISCHARGE DEVICE

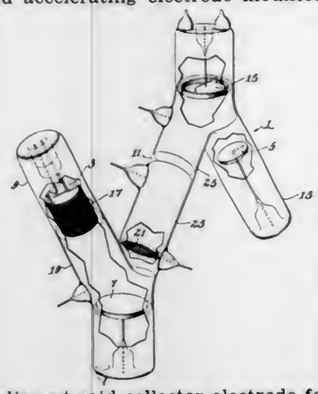
George A. Morton, Haddon Heights, and Leslie E. Flory, Oaklyn, N. J., assignors to Radio Corporation of America, a corporation of Delaware

Application February 28, 1935, Serial No. 8,630

Renewed May 12, 1937

5 Claims. (Cl. 250—166)

5. An electric discharge device comprising an evacuated envelope, a plurality of electrodes capable of secondary emission and an output electrode mounted in spaced relation in said envelope, an accelerating electrode and a plurality of electron lens elements mounted in the space between two adjacent secondary emitter electrodes for directing electrons therebetween, and a second accelerating electrode mounted in the



space adjacent said collector electrode for drawing the electrons from the preceding secondary emitter electrode thereto.

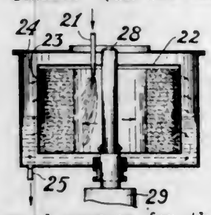
2,165,807

METHOD FOR THE SEPARATION OF MIXTURES OF LIQUID AND SOLID CONSTITUENTS

Eger V. Murphree and Edward D. Reeves, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application May 3, 1933, Serial No. 669,084

7 Claims. (Cl. 210—63)



2. An improved process for the removal of petrolatum waxes from liquid hydrocarbons comprising diluting the oil with a solvent of a density greater than the wax and in proportions to increase the density of liquid constituents above that of the wax, adjusting the temperature of the diluted oil to cause solidification of the wax, feeding the slurry of solid wax outwardly against a filtration membrane under positive pressure sufficient to form a filter cake under the action of centrifugal force, whereby the pressure exerted on the oil is in excess of that exerted on the wax, and withdrawing the filtrate from the other side of the filtration membrane.

2,165,808

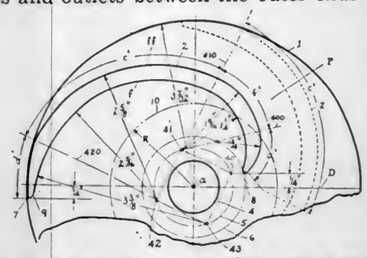
PUMP ROTOR

Daniel Murphy, New Castle, Pa.

Application May 22, 1937, Serial No. 144,136

5 Claims. (Cl. 103—115)

4. An impeller for a rotary pump, said impeller comprising an impeller body including a plurality of involute vanes each having an inner end located eccentrically of the axis of the impeller and extending outward from such inner end on a curve comprising a series of arcs, the curvature of said vane being most acute in the inner end portion of the vane and such inner end portion extending through an angle of substantially 90 degrees with respect to a center of curvature, the radii of said series of arcs being of successively increasing value outward from said inner end portion of the vane and the entire vane extending from end to end through an angle of approximately 180 degrees, involute passages for fluid between said vanes, said passages having inlets formed between the inner ends of said vanes and outlets between the outer ends there-



of, each of said passages having a cross-sectional area that gradually decreases in a region extending immediately from the inlet of the passage outward through a relatively short curved interval and that is of uniform value through a relatively long curved interval extending from such region outward to the outlet of the passage, said passage having at all points in its extent a cross-sectional area less than the area of said inlet, and having at no point a cross-sectional area appreciably less than that in said relatively long curved portion that extends between said inner region of the passage and said outlet.

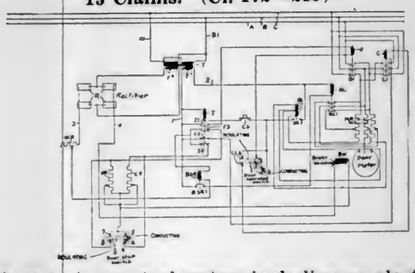
2,165,809

ELECTRIC DOOR OPERATOR

Edward G. Parvin, Roselle, N. J., assignor to National Pneumatic Company, Rahway, N. J., a corporation of West Virginia

Application December 30, 1937, Serial No. 182,389

13 Claims. (Cl. 172—239)



1. A motor control system including an electric motor, a magnetic brake connected to said motor to resist operation thereof, an energizing circuit for said motor, control means for connecting said motor to said circuit, connections from said circuit to maintain the brake continuously applied when the system is in operation, and means controlled by said control means for reducing the force of application of said brake when the motor is energized.

2,165,810

SAFETY WHEEL

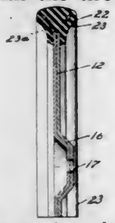
August F. Paselk, Detroit, Mich.

Application February 10, 1938, Serial No. 189,782

1 Claim. (Cl. 152—158)

A safety wheel comprising a main body portion, integral means on said body portion for engaging the bead of a tire, bosses on said body

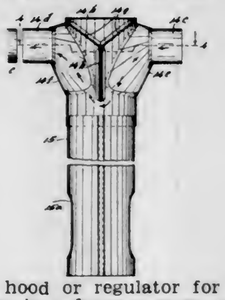
portion, an annular member having bosses arranged to engage the bosses of said body portion, said annular member having tire engaging means corresponding with the tire engaging means of



said body portion, and a plurality of peripheral extension members detachably secured between said body and said annular member, each of said extension members consisting of two plates welded together, the outer periphery of each plate being flared to provide anchors for a resilient ele-

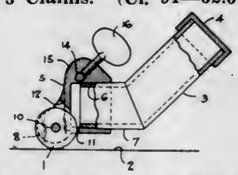
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2,165,811
BACKDRAFT DIVERTER
Frank B. Peters, Minneapolis, Minn.
Application March 21, 1938, Serial No. 197,108
2 Claims. (Cl. 126—307)



1. A draft hood or regulator for a gas furnace or heater in a furnace room comprising a hood having a central portion with a closed top, conduit portions extending laterally from said central portion a short distance below said top and having downwardly extending sides and bottoms connected to said central portion, said conduit portions being adapted for connection respectively to said furnace or heater and to a chimney, a vertically extending baffle plate extending across said central portion between said laterally extending portions and for some distance below the latter, a conduit connected to the bottom of said central portion and extending to the floor of said furnace room, said last mentioned conduit having openings therein adjacent said floor through which cold air may enter and pass to said chimney.

2,165,812
PAINT STRIPER
Robert A. Pfleger, Los Angeles, Calif.
Application April 21, 1936, Serial No. 75,586
3 Claims. (Cl. 91—62.6)

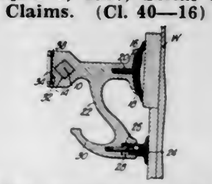


1. In a paint striper, a rotatable striper wheel, a paint reservoir, and an ear providing a slot in which the wheel turns, said slot having sides close to the contiguous sides of the wheel, and having a direct communication with the reservoir, said ear providing an axis for the wheel so located that the area of the wheel sides which are exposed, narrows as that part of the slot is approached where the wheel periphery enters, as the wheel rotates in use.

2,165,813
CHLORINATED DIPHENYL ETHERS AND METHOD OF MAKING SAME
Carl F. Prutton, Cleveland, Ohio, assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application June 6, 1936, Serial No. 83,976
30 Claims. (Cl. 260—612)

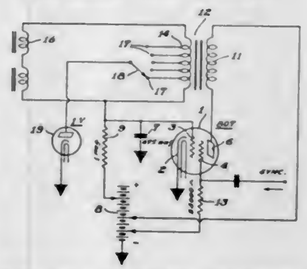
1. As a composition of matter, chlorinated diphenyl ethers having a combined chlorine content corresponding to an average of more than three atoms of chlorine per molecule.

2,165,814
CARD HOLDER
Max E. Redmond, Minneapolis, Minn.
Application April 9, 1937, Serial No. 135,950
2 Claims. (Cl. 40—16)



2. In a bracket comprising a body portion a transversely disposed outer head extending beyond each side of said body portion; a depression formed in the outer face of said head, said depression being undercut at its opposite sides and one end, and being open at its other end to receive an indicia plate with three edges thereof extending into said undercut with the indicia exposed to view; and means associated with said bracket and adjustable to vary the surface angle of the indicia plate contained in said depression toward or from the vertical.

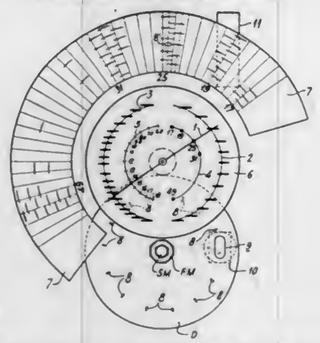
2,165,815
GENERATOR FOR TELEVISION
Henry E. Rhea, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 31, 1937, Serial No. 182,779
4 Claims. (Cl. 250—36)



1. A saw-tooth generator comprising an amplifier tube having an input circuit and an output

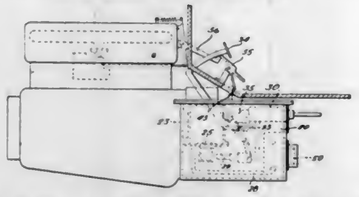
circuit, a transformer coupling said output circuit to said input circuit, said transformer having a primary and a secondary, a condenser across said input circuit, a rectifier connected in series with at least a portion of said secondary, said series combination of rectifier and secondary being connected across said condenser, said transformer being connected to oppose the voltage across said condenser during the time it is charging, and a pair of deflecting coils connected across said secondary.

2,165,816
TUNING INDICATOR AND SCALE
Noël Meyer Rust, Chelmsford, and Nyman Levin, Finchley, London, England, assignors to Radio Corporation of America, a corporation of Delaware
Application December 11, 1937, Serial No. 179,290
In Great Britain December 11, 1936
7 Claims. (Cl. 116—124.1)



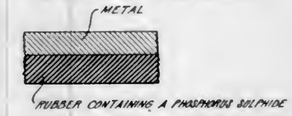
1. The combination with an adjustable tuning element of a radio receiving system, of a rotatable scale arranged to be rotated in accordance with adjustments of said tuning element, an indicating instrumentality including a light spot for indicating on the scale the adjustment of the tuning element, said instrumentality comprising a rotatable member arranged to be rotated in accordance with adjustments of the tuning element, and means for translating the rotary movements of said member into corresponding movements of the light spot the locus of which, relative to the scale, comprises a plurality of substantially evenly spaced radial lines extending across the scale.

2,165,817
BRAKING SYSTEM
Truman Sunderland Safford, Port Chester, N. Y.
Application June 12, 1933, Serial No. 675,374
10 Claims. (Cl. 192—3)



1. A power braking system for wheeled vehicles which comprises brake mechanism, fluid pressure motor means for operating the brake mechanism, a pump adapted to operate continuously while the vehicle is in motion, and having a connection with said motor means, a manually operable by-pass valve adapted to be opened to permit all of the fluid from said pump to escape, and movable through a series of settings in each of which it is adapted to accumulate a given pressure through the connection to said motor means, and pedal operated means adapted to operate said brake mechanism without any interference from said pump or any of the parts operatively connected thereto, in which by pass and connection form a Venturi tube whereby, so long as the by-pass is open, the passage of fluid from the pump will tend to reduce the pressure in the motor means, but upon closing of the valve will allow the back pressure to accumulate in the motor means.

2,165,818
METHOD OF BONDING RESILIENT RUBBER
Elwood L. Scholl, Detroit, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application May 4, 1937, Serial No. 140,674
8 Claims. (Cl. 154—2)



1. A method of bonding rubber to ferrous metal which comprises incorporating a small amount of a sulphide of phosphorus into a vulcanizable solid rubber composition, applying said rubber composition directly to the metal, and uniting the rubber to the metal by application of heat sufficient to at least partially vulcanize the rubber.

2,165,819
ELECTRIC INSULATOR AND METHOD OF MAKING SAME
Ernst Albers-Schönberg, Berlin-Frohnau, Germany, assignor to Steatit-Magnesia Aktiengesellschaft, Berlin-Pankow, Germany
No Drawing. Application May 24, 1935, Serial No. 23,326. In Germany June 5, 1934
8 Claims. (Cl. 49—81)

3. An electric insulator consisting substantially of magnesium titanate with a minor quantity of alkaline earth compounds.

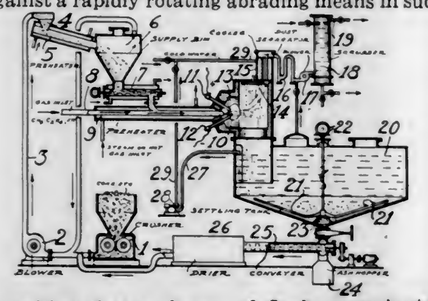
5. The method of making an electric insulator which consists in suitably shaping a mixture consisting essentially of fused magnesia and calcined titanium dioxide and firing the mixture until the ingredients combine substantially as magnesium titanate.

7. A composite body consisting in part of a glass member and in part of a member of magnesium titanate, said members being fusion-welded to one another.

2,165,820
MANUFACTURE OF ACETYLENE
William H. Smyers, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 29, 1934, Serial No. 759,601
5 Claims. (Cl. 204—31)

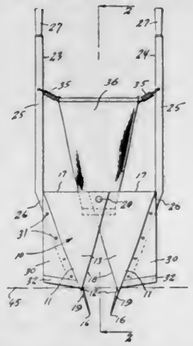
2. A process for producing acetylene which comprises feeding a pulverized solid carbonaceous material simultaneously with gaseous hydrocarbons directly into an electric arc at an acetylene-forming temperature and time of exposure, and immediately cooling the reaction products below the decomposition temperature of acetylene, in

which process a solid rod of carbonaceous material preheated to a glowing temperature is fed against a rapidly rotating abrading means in such



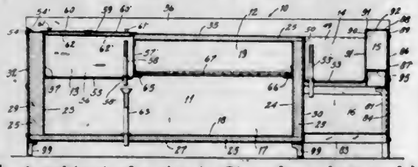
a position that a shower of finely comminuted glowing particles of carbonaceous material is injected directly into the arc.

2,165,821
HAND CABBAGE SETTER
Frank T. Twitchell, Tinnie, N. Mex.
Application November 10, 1937, Serial No. 173,799
5 Claims. (Cl. 111—4)



1. A transplanter or setter comprising a container consisting of opposed casing sections each having a back and side walls, with a portion of the side walls of one overlapping a like portion of the other, means pivotally connecting said side walls together, a handle adjustably connected to the back of each casing section, a depending blade at the bottom of each casing section formed as an integral extension of the back thereof, and a chute resiliently carried by said handles and arranged in superposed axial relation to said container.

2,165,822
MULTIUTILITARIAN COOLING AND SERVING CABINET
Vincent F. Vaclavik, St. Louis, Mo.
Application August 20, 1937, Serial No. 160,047
2 Claims. (Cl. 312—146)



1. A cabinet of a size to fit under a bar and including a main cooling chamber within said cabinet and adapted to receive a cooling medium, and being adapted to hold in storage articles to be cooled, a shelf for supporting some such articles above the bottom of the chamber, closure means for such chamber and giving access to the interior thereof and to said shelf, a top wall over said cooling chamber and at an elevation to fit beneath a bar, said top wall having a drainboard thereon sloping toward one end of the chamber, a washing sump at one end and disposed to receive drainings from the drainboard, said sump having a bottom wall disposed above the bottom of the cabinet and defining a storage space therebelow adapted to receive a refrigeration unit for the cooling compartment, or articles reserved for cooling, walls defining a serving compartment extending from the top into the cooling chamber and in heat transfer relation thereto whereby the compartment may benefit from the thermal condition of the chamber, said compartment opening into the top adjacent the drainboard, so that articles withdrawn therefrom may drain thereon, and into the sump.

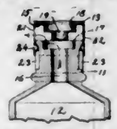
2,165,823
METHOD OF DRILLING WELLS
William V. Vietti and Allen D. Garrison, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application July 21, 1936, Serial No. 91,702
18 Claims. (Cl. 255—1)

1. A drilling mud useful for preventing the heaving of shale comprising a finely divided solid, water and 20% or more by volume of a sodium silicate in which the molecular ratio of sodium oxide to silica falls within the range of from 1:2 up to 1:3.9.

2,165,824
METHOD OF DRILLING WELLS
William V. Vietti and Allen D. Garrison, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
No Drawing. Application August 6, 1936, Serial No. 94,586
21 Claims. (Cl. 255—1)

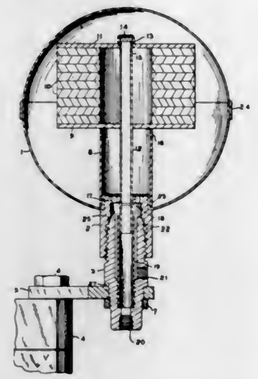
1. A drilling mud useful for preventing the heaving of shale comprising an aqueous suspension of a finely divided solid, said aqueous suspension having dissolved therein not less than 20% by volume of a sodium silicate in which the molecular ratio of silica to sodium oxide falls within the range of from 3.9:1 to 1.5:1, and at least one salt selected from the group consisting of the sodium and potassium thiocyanates, chlorates, iodides, nitrates, bromides, chromates and chlorides, the salt content of the dispersion falling within the range of from 2% by weight of the aqueous medium up to the saturation value of a dissolved component.

2,165,825
CONTAINER AND CLOSURE FOR SAME
Bruno von Bültzingslöwen, New York, N. Y.
Application January 23, 1935, Serial No. 3,049
11 Claims. (Cl. 221—60)



1. In combination with the neck of a container, and a bore extending through said neck, a sheet metal closure slidably extending over the outer circumference of said neck and in said bore and slidable in the axial direction upon the inside and outside of the neck in slide valve fashion.

2,165,826
OIL FILTER
John F. Werder, Lakewood, Ohio
Application April 21, 1937, Serial No. 138,219
4 Claims. (Cl. 210—165)



1. In a filter, a casing with one opening, secured in said opening an internally threaded member with a seat formed by a counterbore extending beyond the threaded portion and of smaller diameter than said threaded portion, a wall at the end of said counterbore, a central hole thru the end of said wall and an off center hole thru said wall between said counterbore and said central hole; a tube passing thru said central hole and attached thereto and extending inside said casing, filtering means surrounding said tube inside of said casing so that fluid entering said casing thru said off center hole will pass thru said filtering means and come out thru said tube.

2,165,827
MANUFACTURE OF A MULTICOLOR LEAD
Richard Zückert, near Budweis, Czechoslovakia, assignor to firm "Koh-i-noor" Tuzkarna L. & C. Hardtmuth, Ces. Budejovice, Czechoslovakia
Application April 15, 1936, Serial No. 74,470
In Germany April 27, 1935
1 Claim. (Cl. 18—61)

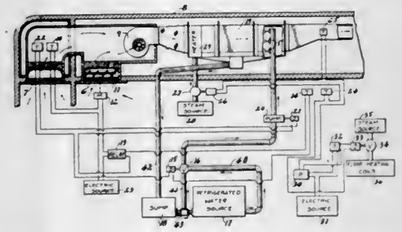


The method of forming a cylindrical multicolored pencil shaft which comprises assembling a plurality of shaft elements of plastic material and of different colors with their faces in contact with each other, each of said shaft elements being in the form of a rod of substantially square cross-section, said elements being assembled into the form of a block having square cross-section, and extruding said block through a circular orifice in a direction longitudinally of said block.

2,165,828
BASE, OR EMULSIFYING VEHICLE, FOR FLAVORING AGENTS
Hugh E. Allen, Evanston, Ill., assignor of one-half to Albert G. McCaleb, Evanston, Ill.
No Drawing. Application October 1, 1937, Serial No. 166,857
8 Claims. (Cl. 99—140)

1. The method of treating a flavoring agent to prevent deterioration or enfeeblement of its characteristic taste, odor or bouquet which consists in emulsifying said agent with proteolytic enzyme hydrolyzed flour.

2,165,829
AIR CONDITIONING SYSTEM
Samuel M. Anderson, Sharon, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.
Application December 23, 1937, Serial No. 181,364
2 Claims. (Cl. 236—44)

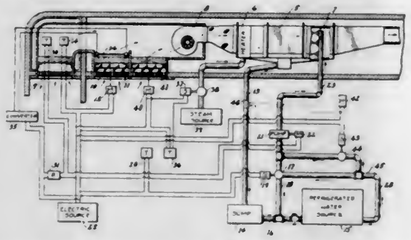


1. Air conditioning apparatus comprising an air washer, means for supplying outdoor and recirculated air into said washer, a source of refrigerated water, a pump for supplying water from said source to said washer, means forming a by-pass around said source and connected to said pump whereby water may be recirculated through said washer without being cooled by said source, means including thermostatic means responsive to changes in outdoor wet bulb temperatures for adjusting said first mentioned means for increasing the proportion of outdoor and for decreasing the proportion of recirculated air entering said washer, when the wet bulb temperature of the outdoor air is low enough for evaporative cooling to be effective, an indoor thermostat, means controlled by said thermostat for adjusting said by-pass towards open position when the indoor temperature is at or below a desired standard and for adjusting said by-pass towards closed position when the indoor temperature is above said standard, and means controlled by said thermostatic means for rendering said thermostat ineffective to control the adjustment of said by-pass when the wet bulb temperature of the outdoor air is low enough for evaporative cooling to be effective.

2,165,830
AIR CONDITIONING SYSTEM FOR PASSENGER VEHICLES
Samuel M. Anderson, Sharon, Mass., assignor to B. F. Sturtevant Company, Hyde Park, Boston, Mass.
Application December 23, 1937, Serial No. 181,365
8 Claims. (Cl. 236—44)

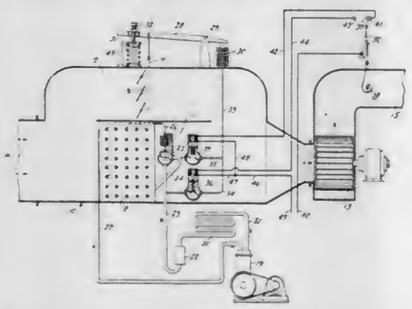
1. Air conditioning apparatus comprising an air washer, means for supplying outdoor and recirculated air into said washer, a source of refrigerated water, a pump for supplying water from said source to said washer, means forming a by-pass around said source and connected to

said pump whereby water may be recirculated through said washer without being cooled by said source, means responsive to changes in the wet bulb temperature of the outdoor air entering said washer for adjusting said first mentioned means for increasing the proportion of outdoor and for decreasing the proportion of recirculated air entering said washer, when the wet bulb temper-



ature of the outdoor air is low enough for evaporative cooling to be effective, an indoor thermostat, and means controlled by said thermostat for adjusting said by-pass for opening said by-pass when the indoor temperature is at or below a desired standard and for closing said by-pass when the indoor temperature is above said standard.

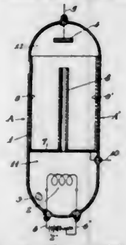
2,165,831
AIR CONDITIONING SYSTEM
William J. Aulsebrook, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application April 25, 1935, Serial No. 18,113
14 Claims. (Cl. 62—6)



11. A method of conditioning air which includes circulating refrigerant fluid in a closed circuit in a manner so that the fluid is evaporated to produce a cooling effect in one part of the circuit, subjecting air to the cooling effect, and regulating the air subjected to the cooling effect by amounts functionally related in changes in force within said circuit.

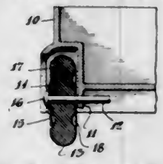
2,165,832
ELECTRON DISCHARGE DEVICE
Sydney N. Baruch, New York, N. Y.
Application November 28, 1936, Serial No. 113,212
20 Claims. (Cl. 250—27.5)

1. An electronic control switch, comprising an envelope, a space having a rarefied gas containing a metal vapor therein, an anode, a solid electron-emitting cathode disposed in said space, a perforated control grid structure the envelope co-operating to surround and enclose said cathode and having a tube like channel opening, said opening being so elongated that when a negative



charge is placed on the grid, said opening will decrease in size electrically.

2,165,833
TOY
Frank Bischof, Chicago, Ill., assignor to Dowst Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application April 14, 1939, Serial No. 267,755
5 Claims. (Cl. 46—221)



1. In a toy, a wheel formed throughout of yieldable resilient material and including a body presenting an enlarged peripheral portion, and a perforated central hub portion, an outwardly bowed circular perforated plate covering the central and hub portions of said wheel, prongs extending from the edge of said plate and imbedded in the body of said wheel to prevent relative rotation of the latter and plate and to maintain the perforations thereof in alignment, a shaft extending through said perforations, and means associated with said shaft and contacting said plate to prevent withdrawal of the prongs of the latter from said wheel body.

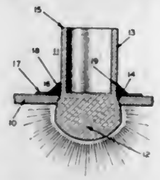
2,165,834
WATER-RESISTANT, STARCH-CONTAINING, PRODUCT AND METHOD
Harold E. Bode, Chicago, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application September 20, 1937, Serial No. 164,796
6 Claims. (Cl. 134—16)

1. A water-free, water-resistant starch paste comprising a mixture of dehydrated starch having adsorbed therein a water-immiscible liquid which is relatively volatile, organic and neutral in reaction, and an organic starch swelling agent which is miscible with said water immiscible liquid, the swelling agent being of the group consisting of alkyl, aryl and heterocyclic amines and chloral.

2,165,835
ILLUMINATED SIGN
Clare W. Brady, West Los Angeles, and Ray J. Robinson, Los Angeles, Calif.
Application October 4, 1938, Serial No. 233,184
1 Claim. (Cl. 40—133)

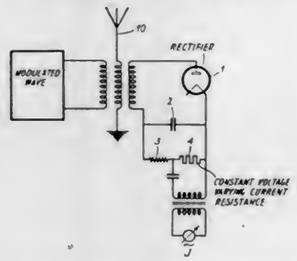
A lens fitting for a sign having a panel of a determined thickness provided with an opening

entirely through the same, comprising a lens body having an elongated shank of a length considerably greater than the thickness of the panel for adjustably fitting the opening in the latter and extending beyond the rear face of said panel, said shank being of uniform cross-sectional di-



ameter throughout for presenting an even outer surface, and a contractible inherently resilient fastening element completely encircling the shank rearwardly of the panel for frictionally gripping the outer surface of said shank and contacting with the rear face of the panel entirely about the opening therein.

2,165,836
MODULATION METER
Werner Buschbeck, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application July 24, 1936, Serial No. 92,304
In Germany August 14, 1935
8 Claims. (Cl. 179—171)

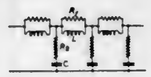


1. In a system for direct indication of the degree of modulation of modulated high frequency current of variable mean amplitude, a rectifier having output terminals, means for impressing said high frequency current on said rectifier, a resistor having a non-linear direct current-voltage characteristic, a second resistor having a substantially linear direct current-voltage characteristic, means connecting said resistances in a series circuit, means connecting said series connection across the output terminals of said rectifier whereby rectified energy flows in said resistances and voltages are produced across said resistances by said direct current flowing therein, and an alternating current measuring instrument coupled in shunt to one of said resistances.

2,165,837
MODIFIED PROTEIN AND METHOD OF PRODUCING THE SAME
Robert D. Coghill, New Haven, Conn., assignor to Parke, Davis & Company, Detroit, Mich., a corporation of Michigan
No Drawing. Application May 8, 1933, Serial No. 670,033. Renewed December 13, 1938
5 Claims. Cl. 167—78)

1. In a process for manufacture of antiserums, the step of treating the antiserum with a non-proteolytic enzyme to cause enzymic digestion and the destruction of a predetermined specificity.

2,165,838
ELECTRIC SIGNAL TRANSMISSION SYSTEM
John Collard, Hammersmith, London, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a corporation of Great Britain
Application February 16, 1938, Serial No. 190,832
In Great Britain February 18, 1937
20 Claims. (Cl. 178—44)



1. A wave transmission system including a transmission path along which oscillations extending over a range of frequencies are caused to travel and in which range the attenuation of said path varies with the frequency ω as the sum of a number, including one, of terms given substantially by $A_n\omega^n$ and the phase delay of said path varies as the sum of a number, including one, of terms given substantially by

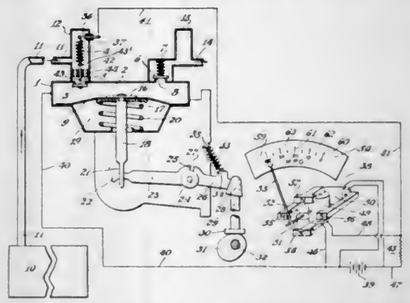
$$A_n \tan \frac{n\pi}{2}\omega^n$$

said variations causing distortions, and a compensating path associated with said transmission path comprising a number of groups, including one, of equaliser sections, one group to every pair of said terms $A_n\omega^n$ and

$$A_n \tan \frac{n\pi}{2}\omega^n$$

said sections of each group having attenuations at certain reference frequencies equal to their attenuation at zero frequency multiplied by an arbitrary factor, said reference frequencies being so distributed as to correspond to substantially equal increments in the associated attenuation term, thereby substantially equalising simultaneously said distortion due to variations of attenuation and phase delay of said transmission path.

2,165,839
FUEL CONSUMPTION INDICATOR
Lincoln K. Davis, Brockton, Mass.
Application February 14, 1935, Serial No. 6,602
10 Claims. (Cl. 73—51)



1. A device for measuring the fuel consumption of an internal combustion motor relative to the

work performed thereby, including a pump supplying fuel to said motor, said pump being of the variable stroke reciprocating type and having an inlet valve, means for driving said pump at a number of strokes per unit time proportional to the work performed by said motor, electrical signalling means attached to said valve and affording an electrical signal of one type when said valve is open and affording an electrical signal of another type when said valve is closed, and an electrical meter receiving both types of signals and displaying an indication corresponding to the relative length of time of persistence of the respective types of signals, integrated over a period of time sufficiently great to cause said indication to appear unchanging while the rate of consumption of fuel is constant.

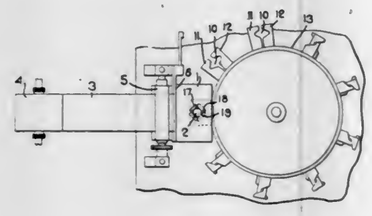
2,165,840

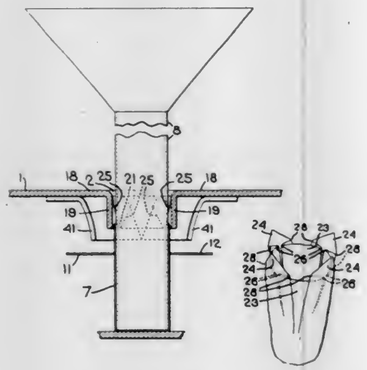
TEA BAG, COFFEE BAG, AND THE LIKE AND METHOD OF MAKING THE SAME

Ralph N. Doble, Hingham, Mass.

Original application March 17, 1938, Serial No. 196,381. Divided and this application December 29, 1938, Serial No. 248,296

7 Claims. (Cl. 99—77.1)





1. A tea bag, coffee bag and the like of the pouch type made from a rectangular blank of bag material having its edges gathered together and fastened in their gathered-together relation by a fastening device, in which the bag material constituting the side walls of the bag are formed of a plurality of pairs of inner folds and a corresponding number of pairs of outer folds which overlie the inner folds.

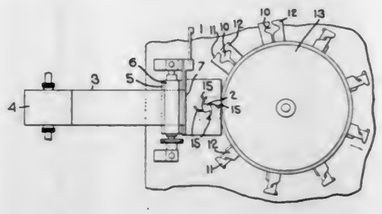
2,165,841

PACKAGING MACHINE

Ralph N. Doble, Hingham, Mass.

Original application October 19, 1937, Serial No. 169,763. Divided and this application December 29, 1938, Serial No. 248,297

4 Claims. (Cl. 93—3)



1. A bag-forming machine comprising a plate having a bag-forming opening therein presenting a central portion and a plurality of curved slots extending outwardly therefrom at an inclination to a radial line, said curved slots having between them fold-forming portions, and a bag-forming tube adapted to be inserted through the central portion of the opening, thereby to force a blank of bag material through the opening, said fold-forming portions forming inner folds in the bag material as it passes through said opening and said slots forming outer folds which overlap the inner folds.

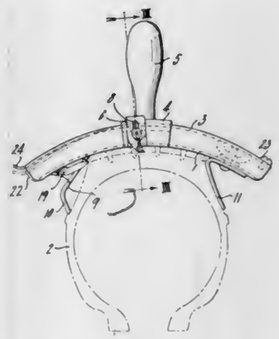
2,165,842

DEVICE FOR SLITTING TIRE TREADS

Ernst Eger, Grosse Pointe Park, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application May 15, 1936, Serial No. 79,901

14 Claims. (Cl. 164—73)



1. In a device for slitting tire treads, the combination of a base adapted to rest upon and substantially conforming to the curvature of a portion of the tread of a pneumatic tire, a track carried by the base, a carriage slidable on the track, and a knife carried by the carriage and projecting beyond the tire engaging surface of the base.

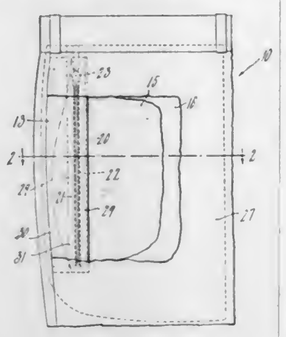
2,165,843

POCKET

Abraham Feit, Brooklyn, N. Y.

Application October 24, 1938, Serial No. 236,678

1 Claim. (Cl. 2—253)



A double pocket construction for a garment, comprising a main pocket and a safety pocket including front and rear walls and a partition separating the main pocket from the safety pocket, said partition having an opening, the edges of the material at opposite sides of said opening being provided with tapes having interlocking fastening elements adapted to be engaged and disengaged by operation of a slider, and a shield extending inward from the mouth of the main pocket and including a flap portion normally covering the fastening means and being foldable to uncover said fastening means, said shield being connected to the garment by a vertical line of stitches adjacent the mouth of the main pocket and being also connected by a second vertical line of stitches to said partition forming a hinge connection for the flap at a point well inward from the mouth of the main pocket, whereby said flap is concealed whether folded toward the mouth of the main pocket or unfolded to cover the fastening means, said flap portion being free at its top and bottom edges affording foldability along its entire length to uncover the fastening means for operation, said fastening elements also being located well inward from the mouth of the main pocket providing a substantial width of partition material between the fastening elements and said first named vertical line of stitches, whereby the element carrying portion of the partition has freedom to bulge substantially away from the rear wall of the pocket and thereby provide for easy entry of the hand through the opening resulting from disengaging the fastening elements.

2,165,844

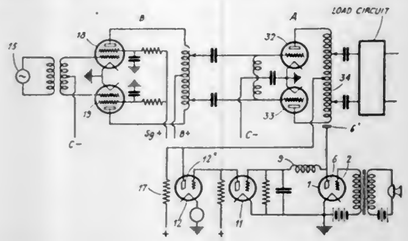
METHOD AND MEANS FOR MODULATION

James L. Finch, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application February 27, 1933, Serial No. 658,735, now Patent No. 2,031,639, dated February 25, 1936. Divided and this application January 15, 1936, Serial No. 59,214

13 Claims. (Cl. 179—171)

1. In a signalling system, a source of high frequency oscillations, a thermionic tube having input electrodes coupled to said source, said tube having output electrodes, a power amplifier tube having input electrodes coupled to the output electrodes of said first named tube, said power amplifier having output electrodes connected in an alternating current circuit, a source of modulating potentials, a control tube having input electrodes coupled to said source of modulating



potentials and having output electrodes coupled by a modulation frequency circuit to the output electrodes of said power amplifier tube, and a direct coupling between the alternating current circuit coupled to the output electrodes of said power amplifier tube and an electrode in said control tube.

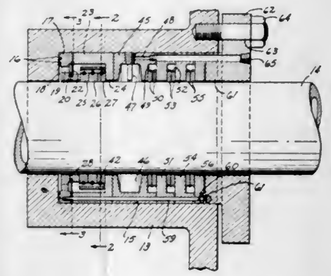
2,165,845

MECHANICAL PACKING

Edwin A. France, Philadelphia, Pa.

Application November 3, 1936, Serial No. 108,994

6 Claims. (Cl. 286—20)



1. A mechanical packing for a rod including an expansible packing ring adapted to bear on said rod and supported against axial movement in one direction, an annular flexible diaphragm supported stationary at one edge thereof and having one side in communication with the space around said rod, and a ring interposed in sealing contact with both said packing ring and an unsupported portion of said diaphragm, whereby increased pressure in said space increases the tightness of said sealing contact, said ring being limited in its movement toward said packing ring only by contact with said packing ring.

2,165,846

CARRIAGE WAY UNIT FOR BRIDGES AND LIKE STRUCTURES

Lucien Gaisman, Woodley, near Manchester, England

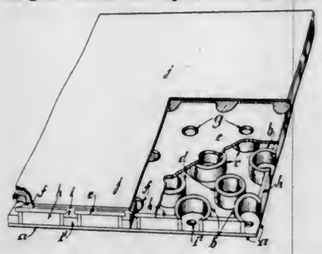
Application September 29, 1937, Serial No. 166,254

In Great Britain October 9, 1936

4 Claims. (Cl. 94—15)

1. A rubber faced carriage way unit for bridges and like structures, comprising a base to which a rubber face is keyed, said base comprising a bottom plate, an apertured top plate and spacing pieces, arranged and secured between the top and

bottom plates, comprising flat faced or ended rings or segments of rings or tubes having apertures larger than the apertures in the top plate



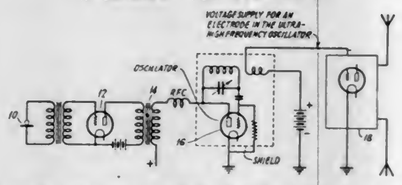
and arranged below the same so as to provide, at such apertures, undercut or dovetailed key formations.

2,165,847

METHOD OF MODULATING ULTRA SHORT WAVES

Ernst Gerhard, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application June 13, 1936, Serial No. 85,005
In Germany June 8, 1935
2 Claims. (Cl. 179—171)



1. The method of signalling by means of ultra high frequency oscillations, oscillations of lower frequency and of amplitude which is great relative to the amplitude of said ultra high frequency oscillations and voltages which vary at signal frequency which includes the steps of, modulating said oscillations of lower frequency in a negative sense in accordance with said voltages of signal frequency, and impressing said modulated oscillations of lower frequency on said ultra high frequency oscillations to interrupt the flow thereof during a portion of each cycle of the modulated oscillations of lower frequency which is a function of the amplitude of the modulated oscillations of lower frequency.

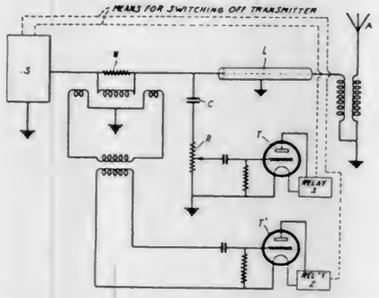
2,165,848

PROTECTION OF HIGH FREQUENCY LINES

Albrecht Gothe, Werner Buschbeck, and Wolfgang Kautter, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a corporation of Germany

Application April 21, 1937, Serial No. 138,114
In Germany April 1, 1936
7 Claims. (Cl. 250—17)

1. A protective system for protecting a high frequency energy line comprising a transmitting source, a concentric conductor connected to said transmitting source, means for checking the current and voltage in said concentric conductor including a resistance connected in series with the transmitting source and said concentric conductor, a coupling coil device coupled to said resistance, two rectifier circuits, each rectifier in said circuits having at least anode, grid and cathode, one of said rectifiers having its grid coupled to said coupling coil device, the other rectifier being coupled to the concentric conductor by means of a second resistance, the output of each rectifier being connected to a relay



circuit, and means responsive to said relay circuits for switching off said transmitting source whereby the transmitting source is switched off when a change of current or voltage values in said concentric conductor beyond a limit established as the normal value occurs.

2,165,849

DENTAL CASTING ALLOY

Cornell Joel Grossman, Millburn, N. J.

No Drawing. Application May 23, 1939, Serial No. 275,231
2 Claims. (Cl. 75—171)

2. A casting alloy for sound denture castings and the like, containing .5–10% boron; boron being in at least sufficient amount so that upon re-melting and casting a sound non-oxidized casting is obtained; chromium 3–45%; silicon 2–2%; manganese .2–5%; balance cobalt.

2,165,850

CELLULOSE ACETATE AND METHOD OF PRODUCING SAME

Wolfgang Gruber, Matthias Thoma, and Hugo Zoebelein, Burghausen, Germany, assignors to Dr. Alexander Wacker Gesellschaft für elektrochemische Industrie, G. m. b. H., Munich, Germany

No Drawing. Application October 15, 1937, Serial No. 169,228. In Germany October 27, 1936
14 Claims. (Cl. 260—230)

1. Method of producing concentrated solutions of cellulose acetate, which comprises treating cellulose with concentrated acetic acid and acetic anhydride in the presence of a catalyst in successive stages, and increasing the total quantity of catalyst during such treatment by the addition of a bisulphate followed by the introduction of a compound which releases sulphuric acid from said bisulphate.

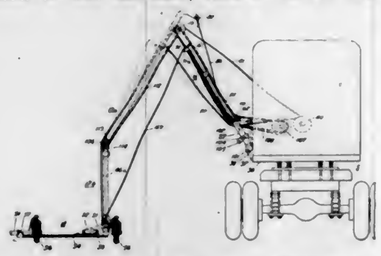
2,165,851

LATERAL MOWING APPARATUS

Harry G. Harman, Lisbon, Iowa

Application March 14, 1938, Serial No. 195,695
8 Claims. (Cl. 56—25)

1. In a mower, a vehicle, an inner boom pivotally mounted on the vehicle, an outer boom pivotally engaged to the outer end of the inner boom, said outer boom being in two parts hingedly connected to one another, and a mower having a



hinged connection with the lower end of the outer boom.

2,165,852

PROCESS AND BATH FOR CLEANING METALS

Jesse Harmon and David M. McQueen, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 27, 1938, Serial No. 204,625
4 Claims. (Cl. 148—8)

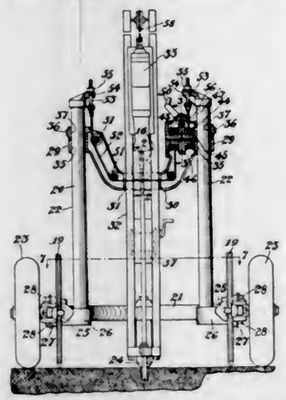
1. A bath for cleaning and pickling metals comprising a non-oxidizing acid and a condensation product of formaldehyde, ammonia, and a phenol.

2,165,853

MOUNTING FOR ROCK DRILLS

Dudley W. Hart, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application February 18, 1937, Serial No. 126,412
6 Claims. (Cl. 255—51)



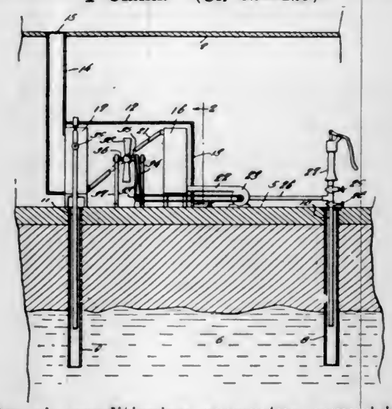
1. A mounting for rock drills, comprising a frame, columns on the frame, a tool supporting member slidable on the columns, flexible means on the columns and in the tool supporting member, means for connecting each extremity of the flexible means to the mounting, means within the tool supporting member to guide the flexible means and seat upon an intermediate portion thereof, guide means on the tool supporting member adapted to guide longitudinal movement of the rock drill with respect to said member, a drum for winding in any paying out the flexible means to raise and lower the tool supporting member, and means carried by the tool supporting member for clamping said member to the columns.

2,165,854

AIR CONDITIONING APPARATUS

Billie Headrick, Wichita, Kans.

Application July 5, 1938, Serial No. 217,538
1 Claim. (Cl. 62—129)



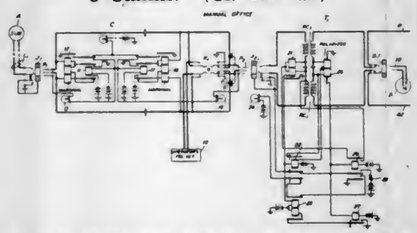
An air conditioning apparatus comprising a closed water system including a water reservoir below the system, feed and discharge pipes extending upwardly therefrom, a chamber having an air discharge duct communicating with one wall, an air intake in an opposite wall of the chamber having an air filter therein, a plurality of spaced apart radiators positioned in the chamber in the path of the air passing therethrough, an overflow pipe connecting the upper portion of one radiator with the other radiator, said discharge duct being connected to the upper portion of the second named radiator, a pump connecting the feed pipe with the lower portion of the first named radiator for drawing water from the reservoir and forcing the same through said radiator and returning the same to the reservoir, a fan operatively mounted in the chamber between the radiators for drawing air therethrough and discharging the same through said duct, a priming pump connected in a branch pipe of said feed pipe in advance of said first named pump, said overflow pipe preventing draining of the system backwardly from the second named radiator, a valve in the feed pipe in advance of both pumps to prevent draining of the water backwardly from the first named radiator, and a valve in the branch pipe leading to the priming pump.

2,165,855

TELEPHONE SYSTEM

Henry Hovland, Williston Park, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

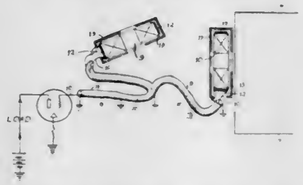
Application November 6, 1937, Serial No. 173,142
8 Claims. (Cl. 179—27)



1. In a telephone system, a manual office, a dial office, an intermediate office, and a two-way

trunk circuit at said intermediate office connecting said manual and dial offices, said trunk circuit comprising means for repeating talking current, means for repeating selective impulses to the dial office, and means for repeating supervisory signals in both directions.

2,165,856
METHOD OF INTRODUCING SIGNALS TO AND RECEIVING SIGNALS FROM TELEPHONE CIRCUITS
Walter Howey, Demarest, N. J.
Application April 4, 1938, Serial No. 199,990
10 Claims. (Cl. 178—5.8)



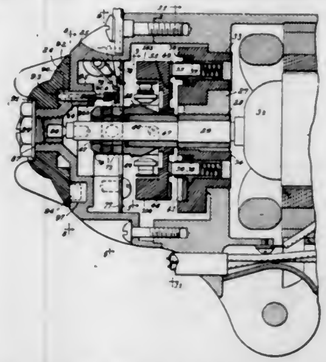
1. A telephone signalling system comprising a telephone line having a telephone terminal box, an induction coil in said box connected to the telephone line, means for electromagnetically coupling a pair of separate parallel connected inductive coils to the induction coil in the telephone terminal box for optimum results.

2,165,857
SOLIDIFIED NORMALLY LIQUID SUBSTANCES
Simon Jacobowitz, Berlin-Charlottenburg, Germany, assignor to Gustav Snoek, Berlin, Germany, a corporation of Germany
No Drawing. Application November 5, 1937, Serial No. 172,922. In Germany November 17, 1936
3 Claims. (Cl. 167—63)

1. A solid composition of matter comprising a substance selected from the group consisting of glycerine, glycols, and aqueous sugar solutions, in combination with a neutralization product of a sulphuric acid ester of a fatty alcohol having at least 8 carbon atoms in admixture with myristyl alcohol, said mixture being in an amount sufficient to solidify said substance.

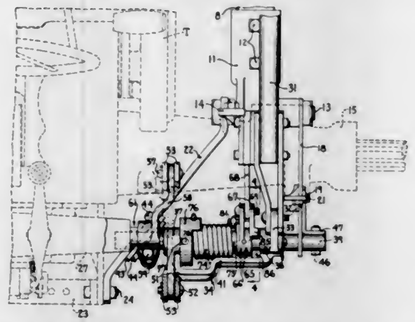
2,165,858
ELECTRIC MOTOR
Ivar Jepson, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Application February 4, 1938, Serial No. 188,695
20 Claims. (Cl. 172—36)

18. The combination in a motor having an armature shaft and an armature and a speed control mechanism carried on said shaft, of a motor casing having a laterally disposed partition provided with a centrally disposed bearing for supporting said shaft at a point intermediate the armature and the speed control mechanism, a distributer unit for distributing current to the various parts of the motor comprising a switch having a stationary and a movable contact, a leaf spring for supporting the movable contact, a resistor, spaced brush holders, a rigid conductor connecting one end of said resistor, one of said brush holders and said leaf spring, a rigid conductor for connecting the opposite end of said resistor and the other of said brush holders, a body of insulation material having recesses for the seating of said brush holders and said conductors



to secure the distributor elements together as a unitary whole, and means for securing the body member in fixed position against said partition.

2,165,859
POWER LIFT IMPLEMENT
Frank D. Jones, Ottumwa, Iowa, assignor to Dain Manufacturing Company of Iowa, Ottumwa, Iowa, a corporation of Iowa
Application October 9, 1936, Serial No. 104,748
23 Claims. (Cl. 56—27)



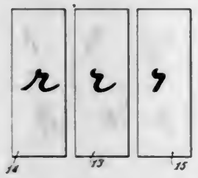
1. The combination with a tractor having a hydraulic lift mechanism, of means connected with said hydraulic lift mechanism including operating members, means connecting said members with said power lift mechanism whereby said members are adapted to be moved into either of two positions by actuation of said mechanism, said mechanism being locked only in one position of said members, each of said connecting means including a shaft supported on the tractor, a member journaled on said shaft, an arm on said member connected with said hydraulic lift mechanism, and a second arm on said member connected with said operating member, and means for locking each of said operating members in their other position, said means comprising a hub member journaled on said shaft, an arm on said hub member, and a link connecting said arm with its operating member, said arm and said link being movable by said operating member into a dead center relationship in the other position of said hydraulic lift mechanism upon actuation of said operating member to such position.

2,165,860
HAND OILER FOR TESTING VISIBLE CONTENTS
Chester A. Killmeyer, Stratford, Conn., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn., a corporation
Application January 27, 1938, Serial No. 187,101
6 Claims. (Cl. 221—32)



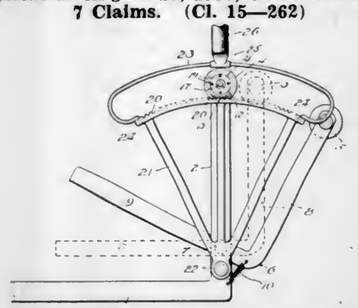
1. A hand-oiler, comprising: a bottom-wall member formed of flexible sheet metal having a marginal outer portion thereof provided with a peripheral groove with radially-spaced inner and outer peripheral wall portions integrally united by an annular base-wall portion and having a central flexible diaphragm integrally formed with the inner peripheral wall portion of said groove at the upper edge thereof; and a body-side-wall member constructed of transparent resilient material having a markedly-lower modulus of volume elasticity than the sheet metal composing the bottom-wall member; the said body-side-wall member being provided with a peripheral flange constructed and arranged to snugly interfit with the inner, outer, and annular base-wall portions of the peripheral groove; the said marginal outer portion of the bottom-wall member having an inturned annular wall portion integrally formed with the outer peripheral wall portion of said groove at the top which is permanently set in depressed relation to the normal upper surface of said peripheral flange under a setting pressure applied to oppositely-disposed wall portions of said bottom-wall member.

2,165,861
METHOD OF LETTERING
Edwin W. Krauter, Chicago, Ill.
Application October 31, 1938, Serial No. 237,811
2 Claims. (Cl. 95—5)



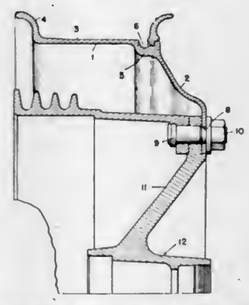
1. Method of lettering which comprises selecting from a font comprising a plurality of transparencies having script characters opaquely lettered thereon, each character being represented in different forms of the same size for combination with other characters in different positions, the correct transparencies for forming a desired combination and effect in continuous script, arranging said transparencies in proper sequence with certain transparencies overlapping portions of the characters on other transparencies so far as necessary to bring the chosen characters into correct relative position with the end portions of the characters joining, in appearance, adjacent characters to form the desired combination in continuously running script, substantially all of the overlapped character portions being visible through the overlapping transparencies, and then photographing the said arrangement to produce a print on which will appear the desired script combination on a pure background of contrasting appearance.

2,165,862
MOP WRINGER
Harry J. Lau, Chicago, Ill.
Application August 29, 1938, Serial No. 227,252
7 Claims. (Cl. 15—262)



1. The combination with a wringer apparatus comprising a frame, a wringer roller mounted in the frame, a second wringer roller, means, including a treadle on the lower part of the frame, supporting the second roller and permitting it to be pressed against the first roller or be moved away therefrom, of a long upright hand lever supported by the frame for limited oscillatory movements in both directions from a vertical position in position to be grasped by a person standing upright and having a foot on the treadle, the lever being movable in a plane parallel with the plane of movement of the treadle, and means actuated by said lever to turn one of said rollers, when the lever is moved in one direction and permit that roller to stand still during a return movement of the lever.

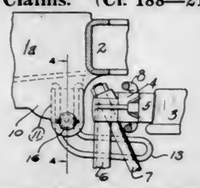
2,165,863
METHOD OF FORMING A VEHICLE WHEEL
Frank H. Le Jeune, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application December 9, 1935, Serial No. 53,628
2 Claims. (Cl. 29—159)



1. The method of forming a vehicle wheel having an integral tire receiving rim, which comprises forming a strip having a longitudinally extending enlargement intermediate its side edges with a longitudinally extending groove in said enlargement opening at one side of the strip and having a transverse flange at one of its side edges, hooping the strip into a circular band with the groove opening radially outwardly to form a tire receiving rim with an annular gutter adapted to receive a detachable flange, bending a portion of the band other than the rim in a zone adjacent to the groove radially inwardly to form the rim supporting portion of the wheel, and dur-

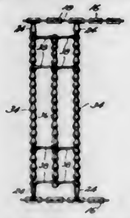
ing the bending upsetting the material to progressively increase the thickness of the rim supporting portion.

2,165,864
BRAKE GEAR SAFETY GUARD
David M. Light, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application March 4, 1938, Serial No. 193,858
21 Claims. (Cl. 188—210)



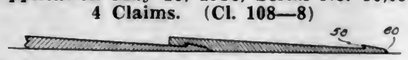
1. A railway brake gear support device comprising a gear engageable portion, elements projecting therefrom and spaced apart and arranged to be mounted in opposing seats on a truck part, and a member insertible between said elements to hold the same spaced apart and thereby retained against movement from their mounting seats.

2,165,865
TRACTION TIRE CHAIN
Eldon E. Lloyd, Maryville, Mo.
Application May 11, 1936, Serial No. 79,061
2 Claims. (Cl. 152—239)



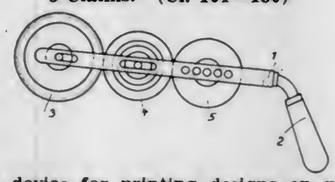
1. A traction chain for vehicle tires comprising spaced-apart rim chains; spaced-apart cross tread units interconnecting said rim chains, each tread unit consisting of spaced-apart, substantially parallel cross chains interconnecting said rim chains; an elongated pliant member positioned intermediate said cross chains and spaced apart from said rim chains; and a plurality of substantially parallel members connecting the end portions of said pliant member with the adjacent cross chains respectively, whereby the major central portions of the cross chains and pliant member are free for independent transverse movement.

2,165,866
ROOFING
Paul Logan, Chicago, Ill., assignor to The Logan-Long Company, Chicago, Ill., a corporation of Ohio
Application May 16, 1936, Serial No. 80,091
4 Claims. (Cl. 108—8)



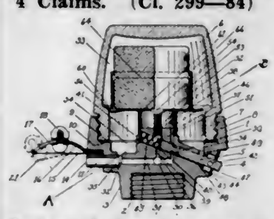
2. A roof comprising, in combination: a supporting roof structure; overlapped shingles on said structure; each shingle being composed of a body of mastic material; an upper edge portion of one shingle underlying a lower portion of an adjacent second shingle higher up; the upper surface of said first mentioned shingle having a downwardly facing shoulder; the under surface of said second shingle having an upwardly facing shoulder fitting into said downwardly facing shoulder; said shoulders being hook-shaped, whereby the second shingle is held down by inter-engagement of said shoulders.

2,165,867
DEVICE FOR PRINTING DESIGNS ON WALLS, SURFACES, OR THE LIKE
Friedrich Lohrey, Nuremberg, Germany
Application May 10, 1938, Serial No. 207,121
In Germany March 4, 1937
3 Claims. (Cl. 101—130)



1. A device for printing designs on walls or other surfaces, consisting of a design- (printing-) roller, a colour transferring roller and a colour carrying roller, said colour carrying roller consisting of several parts of pressed water-soluble colour, the parts being of different colours and arranged on a common axle, said colour transferring roller consisting of a perforated cylinder adapted to take up water, and of a covering made of absorbing material.

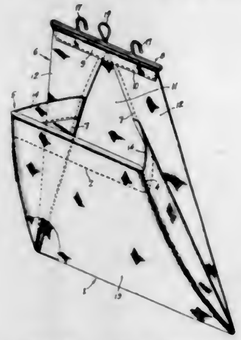
2,165,868
FERTILIZING NOZZLE
Dorr R. Martin, Detroit, Mich.
Application March 23, 1935, Serial No. 12,550
4 Claims. (Cl. 299—84)



4. In a device of the character described, a chambered element having a base adapted for connection with a water supply conduit, a nozzle, a main passageway between the nozzle and the supply conduit, a container positioned in the chamber of the said chambered element having its bottom above the bottom of the chamber, a secondary conduit opening to the main conduit and having a terminal end within the chamber, the base of the container being mounted on the said terminal end and having apertures opening into the bottom of the container, the container further having an aperture for discharge of solution to the bottom of the chamber, and means whereby the solution in the chamber is entrained with the liquid passing through the nozzle.

2,165,869
BAG
Peter Mathiesen, Lyndhurst, N. J.
Application April 16, 1937, Serial No. 137,343
4 Claims. (Cl. 150—1.8)

1. A bag comprising a substantially rectangular piece of sheet material folded transversely to provide a front portion and a back portion, the former of the same width as, but of less height than, the back portion, stitching uniting the side edges of the front and back portions, the ends of the upper margin of the back portion being folded over against and stitched to the intervening portion of said margin to reinforce the back

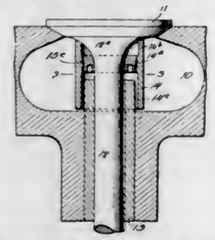


portion and restrict the upper margin thereof to an effective length substantially less than that of the free upper margin of the front portion and not substantially more than half the length of the bottom edge of the bag, and a stiffening and supporting member secured along the upper margin of the back portion.

2,165,870
PRODUCTION OF LEATHER
David M. McQueen, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 7, 1938, Serial No. 200,677
4 Claims. (Cl. 149—5)

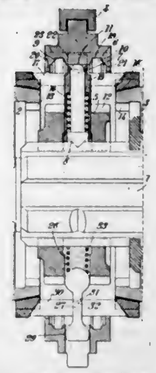
1. In a process for tanning hides, the step comprising subjecting a hide to a tanning solution containing a sulfamate of a metal selected from the group consisting of chromium, aluminum, and titanium.

2,165,871
PROTECTIVE DEVICE FOR POPPET VALVES
Enoch Rector, New York, N. Y.
Application January 12, 1938, Serial No. 184,660
9 Claims. (Cl. 123—188)



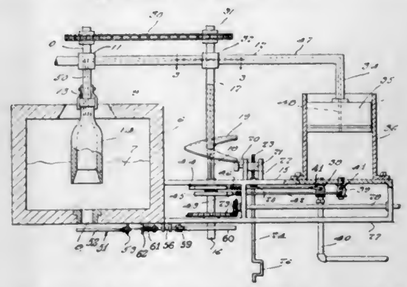
1. A protective shield for a poppet valve, comprising: a tubular skirt element adapted for disposition about the stem of the valve in coaxially spaced relation thereto, said skirt element being provided with a coaxially threaded upper portion, and a complementarily threaded detachable clamping block engageable with the threads of said skirt element and effective, by threaded engagement therewith, to clamp said skirt element to the coaxially associated valve.

2,165,872
POWER TRANSMISSION MECHANISM
Ferdinando Carlo Reggio, Buffalo, N. Y.
Application October 27, 1937, Serial No. 171,373
In Belgium October 30, 1936
17 Claims. (Cl. 192—53)



1. A mechanical transmission device which comprises, in combination, two rotatable elements, shiftable means for positively intercoupling said elements, locking means for keeping said coupling means out of cooperative engagement, shiftable friction means for synchronizing the movement of said elements, a single control member having a neutral position, means operative by the beginning of the movement of said control member from its neutral position for shifting said friction means into operative relative position, and means, independently operative by said control member for successively bringing said locking means out of action in response to a displacement of said control member to a given position from said neutral position and shifting said positive coupling means into operation in response to a given displacement of said control member beyond said second mentioned position thereof.

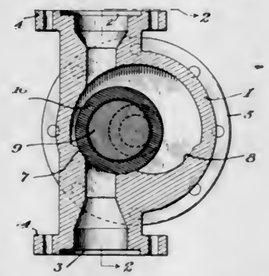
2,165,873
GLASS FEEDER
Edgar Jacob Rush, Lancaster, Ohio
Application June 30, 1938, Serial No. 216,820
4 Claims. (Cl. 49—55)



1. A liquid glass feeder including a tank containing liquefied glass and having an outlet and a platform, a control tube reciprocal relative to the outlet within the liquefied glass, a supporting member arranged above the tank and having a passage, a shaft journaled on said supporting member and held against endwise movement and having a passage in communication with the first-named passage, means for connecting said

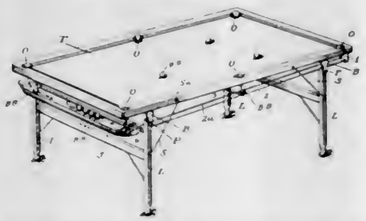
shaft to the tube to place the passage thereof in communication with the tube, a second shaft journaled on the platform and including telescopic sections splined together and one of said sections journaled on the supporting member and held against endwise movement, a drive means between said shafts, means for connecting the second shaft to a power means, means for bringing about reciprocation of the sections of the second shaft journaled on said member and thereby reciprocate the tube relative to the outlet, and a combined suction and air pressure means connected with the passage of the supporting member for developing a partial vacuum in the tube as the latter moves away from the outlet to draw a charge of liquefied glass in the tube and to admit air pressure to the tube on the latter nearing the outlet to drive the charge of glass in the tube through the outlet.

2,165,874
VALVE
John M. Sauls, Oklahoma City, Okla.
Application December 1, 1937, Serial No. 177,571
7 Claims. (Cl. 251—125)



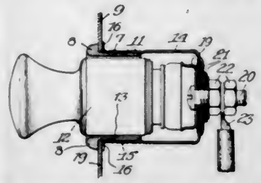
2. A valve including a substantially cylindrical casing provided with passageways leading to and from the interior thereof, an arcuate valve seat on the interior of said casing and surrounding one of said passageways, a completely cylindrical valve body within the casing having a radius of curvature corresponding to that of the arcuate valve seat, and means for eccentrically mounting the valve body at a point laterally offset from the center of curvature of the valve seat.

2,165,875
RETURN-BALL EQUIPMENT FOR BILLIARD TABLES AND THE LIKE
William B. Sawyer, Kennebunkport, Maine, assignor to The Burrowes Corporation, Portland, Maine
Application September 11, 1933, Serial No. 688,892
13 Claims. (Cl. 273—11)



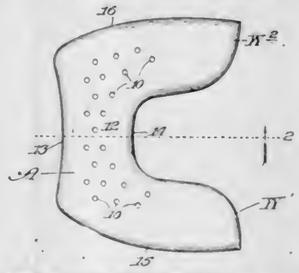
1. A device of the character described adapted for use on a billiard table or the like having foldable legs, comprising an integrated ball-return and ball-receptacle structure, said structure embodying two inclined ball run-ways, a ball-receiving pan secured on and at the lower ends of said run-ways, pivoting means whereby said structure may swing from its higher end on its pivoting point, and means in common for supporting the pan-equipped end of said structure and for retracting it to a position adjacent the under side of said table when said legs are folded, said retraction being accomplished automatically.

2,165,876
SOCKET MEMBER FOR A WIRELESS CIGAR LIGHTER
John Sinko, Chicago, Ill.
Application June 23, 1937, Serial No. 149,994
1 Claim. (Cl. 173—339)



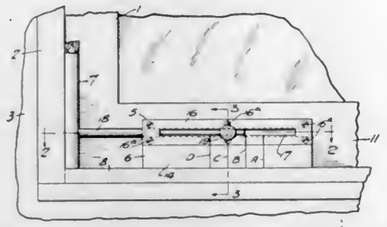
A socket member affording a side wall contact and a base contact, insulated from the side wall contact, for the terminals of a removable cigar lighter plug member, comprising: a round tubular side wall contact member having at its front end a laterally directed ornamental flange adapted to engage the front face of a perforated metallic supporting panel when said member is inserted through a perforation in said panel; and a conducting clamping member threaded to said side wall contact member so as to make electrical contact therewith, said clamping member having a large handle portion so that it may be screwed manually into final gripping position with the first mentioned contact member on the panel without the aid of tools, the front end of said clamping member having a plurality of detents for cutting into the rear face of said panel close to the perforation to provide good electrical contact and lock the parts together.

2,165,877
SHOE VAMP FILLER
Charles A. Volz, Chicago, Ill.
Application March 9, 1936, Serial No. 67,940
3 Claims. (Cl. 36—71)



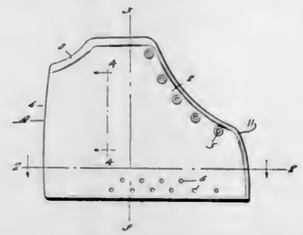
1. A shoe vamp filler comprising a piece of close grained sponge rubber adapted to be inserted between the upper and the lining of a shoe vamp, said rubber piece including a forward portion and wings projecting rearwardly from each side, said forward portion adapted to extend across the top of the vamp and said wings adapted to extend to the sides and soles of the shoe, said rubber piece being provided with spaced perforations and having a thickness of approximately ⅛ inch near its center and less than $\frac{1}{16}$ inch at its edge.

2,165,878
CARPENTER'S GAUGE
Francis Mason Weadon, Jr., Washington, D. C.
Application December 6, 1938, Serial No. 244,261
4 Claims. (Cl. 33—189)



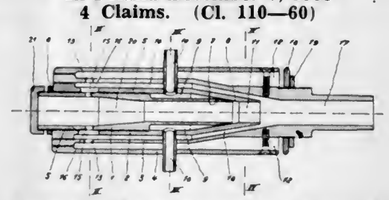
1. In a carpenter's gauge, in combination, a housing having a bore extending longitudinally thereof, a spacing rod positioned in said bore adapted to have an end thereof abut a sash trim, a slot opening into said bore from one face of said housing, graduations on said housing adjacent said slot adapted to have the other end of said rod aligned therewith, locking means extending through said slot and threaded into said rod, longitudinally spaced means fixedly associated with and extending outwardly from said housing on a longitudinal axis thereof, said last-named means being adapted to impress a bottom rail of a window sash to mark the location of a lift.

2,165,879
ANKLE SUPPORT
George H. Wilkinson, Windsor, Ontario, Canada
Application July 30, 1937, Serial No. 156,583
1 Claim. (Cl. 36—8.5)



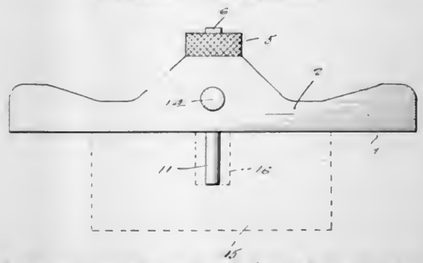
An ankle support for supporting the ankle and portions of the foot in a shoe comprising a member including a sole, a pair of sides and a back, the front of the member being open and terminating in the rear of the toes and said member being composed of a plurality of layers of fabric and rubber, the layers being of such thinness as to make the member flexible and pliable and said member being molded to snugly embrace those portions of the foot engaged by the member, the free edges of the sides being relatively thin and the rear part having its upper edge located below the plane of the top edges of the sides with the rear portions of said sides sloping downwardly and rearwardly to said top edge of the rear portion and eyelets adjacent the front edge of each side portion for receiving lacing.

2,165,880
APPARATUS FOR CREATING A LAYER OF SECONDARY AIR AND STEAM ABOVE A HEARTH
Jules Arkin, Warsaw, Poland, and Eustache Mille, Paris, France
Application November 30, 1936, Serial No. 113,520
In Poland December 7, 1935
4 Claims. (Cl. 110—60)



1. Apparatus for supplying a mixture of preheated air and steam above the fire beds of boilers comprising a steam tube having an open forward end, a small air tube within the steam tube forming with the steam tube a steam chamber and steam nozzle, the forward end of the small air tube being open and adjacent the said nozzle so that air in said small air tube is influenced by steam issuing from said nozzle, a large air tube surrounding the steam tube and extending forwardly beyond the steam tube so that the steam tube and small air tube discharge into the large air tube, an air jacket surrounding the large air tube and open to the atmosphere at its forward end, a steam conduit connected to the steam tube, and the rear portions of said small and large air tubes having openings whereby communication with said air jacket is effected, the rear ends of said air tubes being otherwise closed to the atmosphere, whereby in operation steam issuing from the steam nozzle draws air forwardly in the small and large air tubes in heat exchange relationship with the steam in the steam chamber and nozzle and the air is thus preheated before mixture with the steam in the forwardly extending portion of the large air tube.

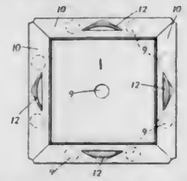
2,165,881
GAUGE
Le Roy Bennett, Webb City, Mo.
Application December 7, 1938, Serial No. 244,493
1 Claim. (Cl. 33—169)



A gauge comprising an elongated stock having a straight edge, and provided in the transverse center thereof with a cylindrical chamber opening at one end onto its opposite edge, and an opening extending from the other end of said chamber to said straight edge, a cap threaded onto said stock and closing said open end of the chamber, a slide fitting into the chamber for endwise movement therein in opposite directions toward and from said straight edge, respectively, a spring interposed between said cap and slide and opposing movement of the slide from said straight

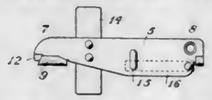
edge, a rod slidably extended through said opening and detachably secured at one end to said slide, and a set screw extending through the stock into said chamber for adjustment against the slide to lock the same against movement.

2,165,882
ANCHORAGE FOR SECURING STRUCTURAL PARTS TO CONCRETE BASES
Frank Birch, Bolton, England
Application August 30, 1938, Serial No. 227,550
In Great Britain August 24, 1937
1 Claim. (Cl. 72—101)



An anchorage supporting tray for concrete foundations, comprising a tray having a relatively large flat bottom whereof the side edges comprise inturned flanges arranged in converging relation towards the top of the tray, the top of the tray being open, and the side flanges having struck out portions therein open at their top edges to receive concrete therethrough for passage to the interior of the tray, said struck out portions providing shoulder abutments for concrete and anchoring the tray against shifting movement when embedded in the foundation, and the bottom of said tray being provided with apertures to receive concrete therethrough.

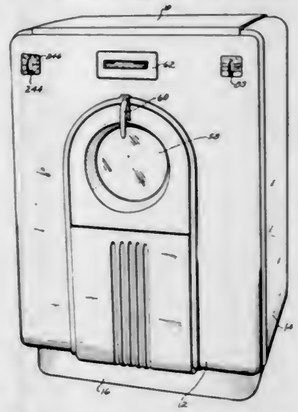
2,165,883
WIRE WRAPPING TOOL
Irving G. Carter, Green Briar, Tenn., assignor to American Telephone and Telegraph Company, a corporation of New York
Application January 6, 1939, Serial No. 249,657
4 Claims. (Cl. 140—123)



1. A tie wrench for wrapping flat wire about a line conductor to secure it to an insulator, a handle having end portions for rotatably engaging the line conductor, and a spring-actuated member for engaging the line conductor to prevent the accidental displacement of the wrench therefrom.

2,165,884
CLEANING TEXTILE AND SIMILAR MATERIALS
John W. Chamberlin and Rex Earl Bassett, Jr., South Bend, Ind., assignors to Bendix Home Appliances, Inc., Detroit, Mich., a corporation of Delaware
Application March 6, 1937, Serial No. 129,429
19 Claims. (Cl. 8—159)

1. That method of cleaning fabric materials such as clothes, by the manipulation of a rotatable generally cylindrical and generally horizontal drum, which comprises rotating the loaded drum continuously in one direction with its lower portion dipping into a cleaning liquid and at such a speed that the wet materials are held centrifugally against the rotating drum until near the uppermost position thereof and then drop by gravity into the cleaning liquid, said speed being



in the range (in revolutions per minute) between

$$\sqrt{\frac{2500}{\text{drum radius in feet}}}$$

as a minimum and about

$$\sqrt{\frac{3000}{\text{drum radius in feet}}}$$

as a maximum, withdrawing the cleaning liquid from the drum, distributing the materials uniformly about the axis of the drum by rotating the drum in the same direction as before and at the same speed but without cleaning liquid, and extracting the cleaning liquid from said materials centrifugally after they are so distributed by driving the drum in said direction at a much higher speed.

12. A washing machine comprising a receptacle for holding materials to be washed and a detergent, mounted for rotation on a substantially horizontal axis, means for rotating the receptacle selectively at either of two speeds, one being a speed in the range (in revolutions per minute) between

$$\sqrt{\frac{2500}{\text{receptacle radius in feet}}}$$

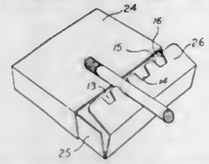
and about

$$\sqrt{\frac{3000}{\text{receptacle radius in feet}}}$$

whereby the pieces of material are kept moving freely relatively to one another while the receptacle is rotating continuously in one direction so long as there is a washing solution in the receptacle and are distributed uniformly about the receptacle when the washing solution is drained away and the other speed being a much higher speed, means for draining the washing solution from said receptacle, and means for changing from the first speed to the higher speed for drying said materials centrifugally after a sufficient time of operation at the lower speed without the presence of washing solution to cause distribution of said materials uniformly in said receptacle.

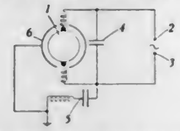
17. A washing machine having a drum, means for driving the drum at low and high speeds for washing and extracting, and float-means controlled by the level of liquid in said drum and preventing the operation of said means at high speed until the wash water is drained out of the drum.

2,165,885
ASHTRAY
Robert William Cotton, Calgary, Alberta, Canada
Application October 26, 1936, Serial No. 107,712
1 Claim. (Cl. 131—51)



An ash tray comprising a cigarette package adapted to act as a temporary ash receptacle, said package having a sliding tray with the usual flap, and a plurality of recesses cut in the end of the flap, each of said recesses being formed with a base and straight side walls converging towards said base adapted to grip and firmly hold a cigarette pressed therebetween.

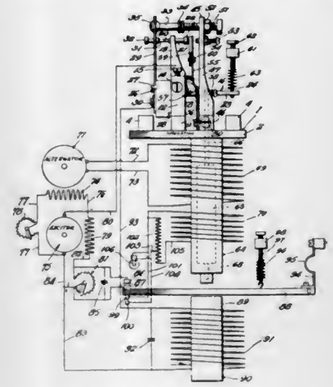
2,165,886
ARRANGEMENT FOR SUPPRESSING HIGH FREQUENCY INTERFERENCE
Leslie Henry Daniel, London, England, assignor to The British Electrical and Allied Industries Research Association, London, England, a body corporate of Great Britain
Application July 14, 1937, Serial No. 153,685
In Great Britain July 18, 1936
13 Claims. (Cl. 171—97)



13. An arrangement for suppressing radio frequency electrical interference caused by the influence of a dynamo-electric machine with an electrically conductive frame on other electrical apparatus, comprising in combination, a connection for grounding said frame, an electric filter connecting said frame to each of the terminals of said machine, each filter comprising a tuned circuit offering low impedance to currents of interference frequency and high impedance to currents of power frequency, an electrical filter comprising an inductance included in the connection between said frame and ground and being of such a character as to provide a high impedance to radio frequency currents and a low impedance to currents of power supply frequencies, and switch means connected across the winding of said inductance and controlled by the strength of the current flowing therethrough to short-circuit said inductance upon the occurrence of a predetermined fault current.

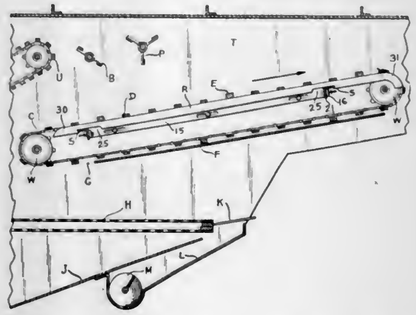
2,165,887
AUTOMATIC VOLTAGE REGULATOR
Michael Debrey, Burlington, Iowa, assignor to The Simplex Corporation, Burlington, Iowa, a corporation of Iowa
Application February 26, 1937, Serial No. 127,998
6 Claims. (Cl. 200—111)

1. In an automatic voltage regulator, a control head including a base, a yoke carried by the base, a contact member carried by the yoke and including a contact arm and a lever, means pivotally mounting the contact member in the yoke, a contact carried by the contact arm, a standard carried by the base, a relatively long stop stud carried by the standard, a spring carried by the contact member and insulated therefrom, a contact carried by the spring and adapted to cooperate with said first mentioned contact,



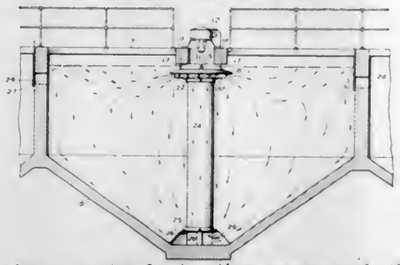
a second stop stud carried by the spring and adapted to cooperate with said first mentioned stop stud when the contact arm is shifted for setting the contacts, means mounting the control head on a panel, and circuit connections for said contacts.

2,165,888
STRAW SUPPORT FOR THRESHERS
Aaron D. Edgington, Cheney, Wash., assignor to Cheney Weeder Company, Cheney, Wash., a corporation of Washington
Application January 16, 1937, Serial No. 120,918
10 Claims. (Cl. 130—21)



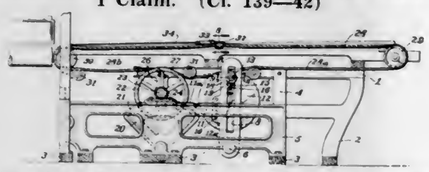
1. A straw support comprising end members each having a projecting edge, one of said end members mounted for movement away from the other end member, a series of runners supported upon said members and projecting outwardly therefrom, each runner having a pair of notches spaced apart along the runner and longitudinally parallel therewith, each notch being of sufficient length to span the width of the respective end member, a spur in each of said notches, each spur engaging under the edge of its corresponding end member, and said end members spaced apart and holding said spurs engaged therewith and with the longitudinal edge of each notch seating upon its respective end member.

2,165,889
AERATION OF LIQUIDS
Anthony J. Fischer, Jackson Heights, and Nels B. Lund, Seaford, N. Y., assignors to The Dorr Company, Inc., New York, N. Y., a corporation of Delaware
Application July 17, 1936, Serial No. 91,090
4 Claims. (Cl. 261—93)



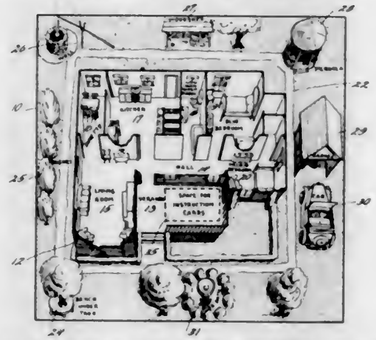
1. An apparatus for treating sewage and other liquids, comprising in combination a tank having means for feeding thereto liquid to be treated, means for conducting effluent liquid therefrom and wherein the liquid undergoing treatment is normally maintained up to a minimum level; a submerged impeller rotatable about a vertically extending axis; said impeller being positioned slightly below the normal liquid level of the tank and operative to force liquid and air outwardly and radially toward the walls of said tank, means for supporting said impeller in operative position in respect to the tank; motivating means for actuating said impeller; a draft tube leading from the lower portion of the tank to said impeller; means to support said draft tube in a substantially upright manner within the tank; an annular hood member located above the impeller for causing the liquid and air forced outwardly by the same to deviate downwardly from its radially-directed path; means for supporting said hood member in submergence; and guide vanes carried by said hood member.

2,165,890
PILE WIRE MOTION FOR LOOMS
James William Foster, Freehold, N. J.
Application January 22, 1938, Serial No. 186,421
1 Claim. (Cl. 139—42)



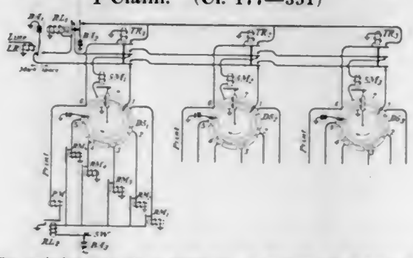
In a loom for weaving with pile wires, the combination of a wire box, a cable for imparting motion to the wire box, a cable drum and pulleys upon which the cable is mounted, a pinion associated with the cable drum, a segmental gear engaged by the pinion, an oscillating lever pivoted in substantially the same horizontal plane as the pivotal point of the segmental gear, said lever having a slot therein, a relatively large crank disk having a radially adjustable stud for timing purposes, a block accurately fitting about said stud and slidably movable within the aforesaid slot in the lever, said oscillating lever having a projecting ear substantially midway its length provided with openings for fastening purposes, an adjustable rod connected to said segmental gear and to an opening in said lever, said rod communicating motion from the said crank disk to the said segmental gear to thereby operate said cable drum, a timing shaft for said crank disk, a main drive shaft for imparting motion to the said timing shaft and crank disk, and a mitre gear connecting the two said shafts, said gear being adjustable in either direction to the width of one tooth to thereby micrometrically effect the final position of the cable drum through the said oscillating lever, adjustable rod, segmental gear, and pinion.

2,165,891
GAME
Edward H. Freedman, New York, N. Y.
Application November 21, 1936, Serial No. 112,168
8 Claims. (Cl. 273—135)



1. In a game of the class described, in combination, a game board having stations arranged thereon in a regular order, a path or definite course connecting said stations, other stations arranged thereon at random, playing pieces adapted to be moved to and from said stations as the game proceeds, certain of said pieces adapted to move sequentially along said definite course through said first named stations only, and other of said pieces adapted to be moved to and from any of said stations under the direction or control of a chance device, and a chance device for directing the movement of said latter pieces.

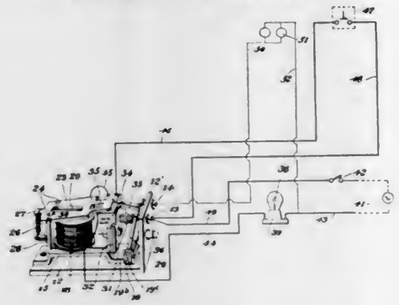
2,165,892
MULTIPLEX TELEMETERING SYSTEM
Estill Ibbotson Green, East Orange, N. J., and Warren Hitchcock Tidd, White Plains, N. Y., assignors to American Telephone and Telegraph Company, a corporation of New York
Application May 10, 1935, Serial No. 20,864
1 Claim. (Cl. 177—351)



In a telemetering system, a series of start-stop transmitting distributors each having means to translate the continuously changing magnitude of a quantity into characteristic telegraph codes,

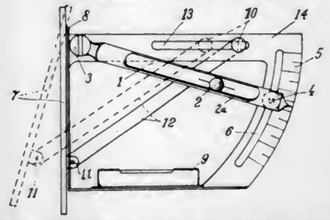
a transmission line common to said distributors, means controlled by the first distributor of the series and by each succeeding distributor after it transmits its translated code over the transmission line for releasing its immediately succeeding distributor for transmission over said line, delayed action means controlled by the last distributor of the series for releasing the first distributor of the series after a lapse of time longer than that required to release the other distributors to thereby introduce a long pause in the transmission, a series of start-stop receiving distributors associated with said common line, sequence means responsive to said codes for sequentially releasing the distributors for sequential response to the respective codes, means responsive to the long pause in transmission for restoring the sequence means to a condition for invariably causing the release of the first receiving distributor, and separate indicating means associated with each receiving distributor and responsive to its received code.

2,165,893
ALARM
Harry A. Gunion, Frankfort, Ind.
Application December 10, 1936, Serial No. 115,227
2 Claims. (Cl. 200—106)



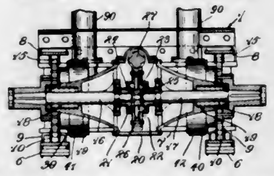
1. A circuit control device for an alarm system comprising a base member, a coil frame mounted on said base, a trip coil mounted in said frame, an armature pivotally mounted on said frame across the end of said coil, a relatively stiff spring tending to move said armature from said coil whereby said armature will be attracted to said coil and will vibrate continuously when said coil is traversed by alternating current, an upstanding panel carried on said base adjacent said coil frame, a contact carried by said panel, an upstanding switch plate pivotally mounted between said frame and said panel, a spring normally biasing said switch plate into engagement with said contact, cooperating latch means on said armature and said switch plate operative to latch said switch plate in a position out of engagement with said contact when said armature is away from said coil and said switch plate is tilted out of engagement with said contact, manually operated means for moving said switch plate to latching position against the action of said spring, and an electrical connection between said switch plate and one terminal of said coil; whereby an alarm circuit may be completed by connecting a current source between the panel contact and the second coil terminal, and connecting an alarm switch between the first coil terminal and the panel contact, said switch plate engaging the panel contact on initial energization of the coil to complete a holding circuit.

2,165,894
TESTING INSTRUMENT FOR VEHICLES
Wilhelm Höhndorf, Hanover-Waldheim, Germany
Application April 6, 1937, Serial No. 135,343
In Germany March 2, 1937
4 Claims. (Cl. 264—1)



1. In an instrument as set forth, a supporting plate, adapted to be fixed to a portion of a vehicle, a frame adjustably connected to said plate having a straight-lined slot, a link pivoted to said supporting plate, a screw carried by said link passing through said slot in said frame, a tube pivoted to said frame and adapted to be adjusted in a plane parallel to the direction of drive of the vehicle, a ball movably arranged in said tube for movement therealong to indicate deceleration or acceleration, means for fixing said tube in an adjusted position, and means for controlling the inclination of said tube.

2,165,895
HOISTING MECHANISM
Joseph F. Joy, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Original application July 1, 1935, Serial No. 29,308. Divided and this application March 19, 1936, Serial No. 69,696
8 Claims. (Cl. 254—166)

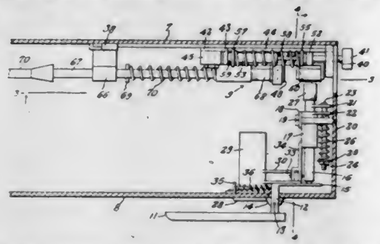


2. In a hoisting mechanism, a base, relatively rotatable hoisting drums arranged in superimposed coaxial relation on said base, a motor on said base, means driven by said motor for driving said drums, a hydraulic pump driven by said motor, and hydraulically operated means operated by pressure fluid discharged from said pump for controlling the connection of said drums with said drum driving means.

2,165,896
CLOSURE FASTENER
Clyde H. King, Sevierville, Tenn., assignor of one-fourth to Ralph M. Denton and Burt Ketner, both of Sevierville, Tenn., one-fourth to W. R. Stuebing, Cincinnati, Ohio, and one-fourth to S. J. Milligan, Greeneville, Tenn.
Application April 23, 1938, Serial No. 203,924
2 Claims. (Cl. 292—1)

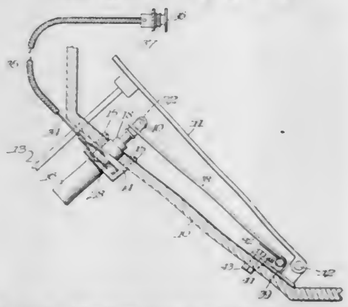
1. Latch operating mechanism for door latches and for use with a rotary barrel lock, comprising a handle swingably movable, a sliding latch operating bolt adapted for swinging adjustment bodily into and out of the path of movement of

said handle for projection under movement of said handle when in said path and for disabling of said bolt when out of said path, and means to adjust said bolt into and out of said path comprising a mounting therefor swingable in op-



posite directions, respectively, spring means tensioning said bolt against projection, and operating connections between said barrel and mounting whereby rotation of said barrel swings said mounting in a direction to adjust said bolt out of said path.

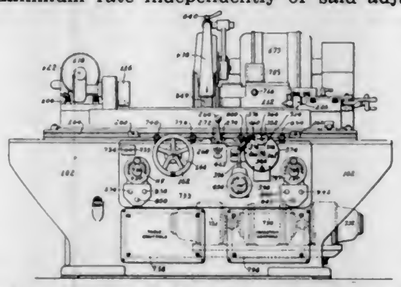
2,165,897
ACCELERATOR CONTROL FOR MOTOR VEHICLES
Harold A. Lilley, Detroit, Mich.
Application May 23, 1938, Serial No. 209,621
11 Claims. (Cl. 74—526)



1. A foot accelerator control device comprising a stop member normally positioned in the path of movement of but out of control with the accelerator and adapted to engage the latter when the accelerator is depressed a predetermined amount, means associated with said stop member for allowing the accelerator to be depressed an additional predetermined amount after its engagement with said stop member, and means for rendering said stop member inoperative.

2,165,898
GRINDING MACHINE
Maxwell I. Mathewson and August L. Krause, Providence, R. I., assignors to Brown and Sharpe Manufacturing Company, a corporation of Rhode Island
Application November 14, 1935, Serial No. 49,772
89 Claims. (Cl. 51—95)

1. A grinding machine having, in combination stock, a variable speed electric motor for driving with a grinding wheel spindle, a rotary headthe headstock, manually operable means adjustable to secure a plurality of predetermined motor speeds, a manually operable starting and stopping control for the motor, switch connections controlled thereby for driving the motor at a speed determined by said adjustment, a manually operable headstock jog control, and switch connections controlled thereby to drive the motor at a minimum rate independently of said adjust-



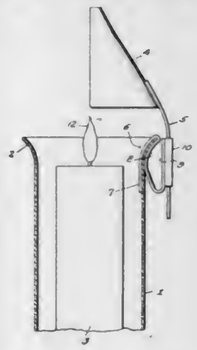
ment, and a single manually operable controller member movable selectively to actuate said starting and stopping control and said headstock jog control.

2,165,899
ILLUMINATION INDICATOR OR TELLTALE
Walter F. Matson, Malden, Mass.
Application August 2, 1937, Serial No. 157,032
2 Claims. (Cl. 240—8.4)



1. The combination with a headlight having a lens and an engaging bezel, of a tell-tale comprising a strip of transparent, resilient, flexible material, said strip having a reduced lip at one end and a slot at the other, the lip passing through the slot to retain the tell-tale in looped formation and being clamped between the lens and bezel of the headlight.

2,165,900
REFLECTOR
Frank A. McGuire, Fulton, Kans.
Application June 6, 1938, Serial No. 212,149
1 Claim. (Cl. 240—103)



A sanctuary light reflector comprising a reflecting plate of substantially segmental cone shape, a bracket fixed on said plate and depending therefrom, a clamp for adjustably and detachably mounting the plate in position on the chimney of a sanctuary light, said clamp com-

prising a pair of coacting, integral resilient jaws engageable over the upper portion of a sanctuary light chimney and adapted to frictionally grip said upper portion therebetween, an upstanding, integral plate on the free end of one of the jaws, and a substantially flat metallic sleeve mounted on said plate and adapted to slidably receive the bracket, said sleeve including inturned side flanges fixed to the plate.

2,165,901
HANDBAG STRUCTURE
George S. Merk, Watertown, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application July 22, 1938, Serial No. 220,723
3 Claims. (Cl. 150—29)



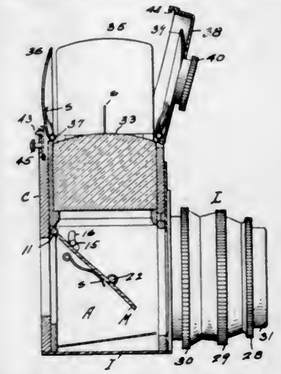
3. In a hand bag or the like a pair of hingedly connected channeled frame members, each of said frame members comprising an inner wall having top and bottom flanges extending on the same side and an outer wall extending from the bottom flange having a lip portion at its outer edge extending toward said inner wall, said top flange having a downwardly-extending portion and a lip portion at the lower edge of said downwardly-extending portion extending toward said outer wall, and covering material extending over the edge of said outer wall into said channel and clenched only between said lip portions of said outer wall and said downwardy-extending portion, said outer wall extending substantially to the height of said top flange, and said covering having a fold disposed above the plane of said top flange.

2,165,902
METHOD OF TREATING PECTIN-CONTAINING RAW MATERIAL
Philip Bliss Myers, Scarsdale, N. Y., assignor to Sardik Incorporated, Jersey City, N. J., a corporation of Delaware
No Drawing. Application January 18, 1938, Serial No. 185,520
11 Claims. (Cl. 260—210)

1. That step in the process of treating pectin-containing raw material which consists in leaching the material with a copper salt solution to form an insoluble copper pectinate.

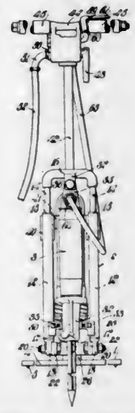
2,165,903
REFLEX CAMERA
Karl Nuchterlein, Dresden, Germany, assignor to Ihagee Kamerawerk Steenbergen & Co., Dresden, Germany
Application April 15, 1937, Serial No. 137,138
2 Claims. (Cl. 95—42)

1. The combination in a reflex camera having a central light-chamber and including a magnifying lens closing a portion of said chamber, said lens having an outer spherical finder-face, and an inner translucent face, of an enclosing hood for the lens adapted to form a light shaft and comprising hinged, automatically-opening concavo-convex wall-sections adapted when in closed position to lie in juxtaposition with the spherical finder-face, and a cover, means for retaining the



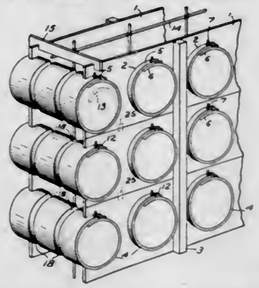
cover to hold the wall-sections in folded position, and means for releasing the retaining means.

2,165,904
ROCK DRILLING MECHANISM
Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application September 25, 1935, Serial No. 42,073
4 Claims. (Cl. 255—51)



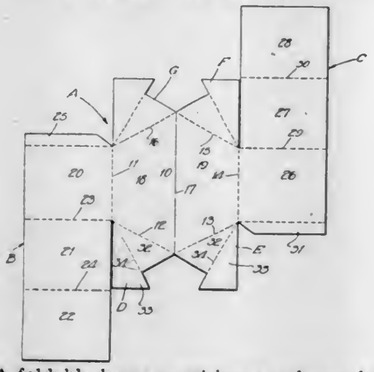
1. In a rock drilling mechanism, a portable base, an elongated support comprising parallel feed cylinders providing a longitudinal drill guideway, means at the forward end of said support for swivelly mounting the latter on said base, said support swingable about its swivel mounting into different angularly related positions with respect to said base, a rock drill arranged between and slidably guided on said parallel feed cylinders, feed pistons reciprocable in said cylinders and having rearwardly extending piston rods, means for connecting the rear ends of said piston rods to said rock drill, means for supplying pressure fluid to said cylinders to effect reciprocation of said pistons, thereby to move the rock drill back and forth along said parallel cylinders, and a handle secured to the rearward end of said support and having an elongated rearwardly extending handle portion provided at its rear end with a manual grasping portion whereby said support may be swung about its swivel mounting with respect to said base.

2,165,905
CONCRETE WALL FORM
Rodney F. Phillips, Oakland, Calif., assignor of one-half to George A. Scott, Berkeley, Calif.
Application December 7, 1936, Serial No. 114,664
9 Claims. (Cl. 25—131)



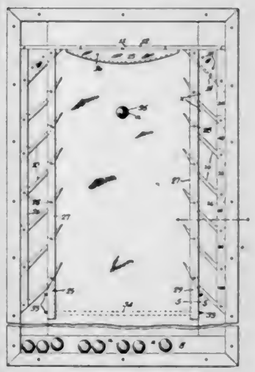
9. A wall form for use in forming concrete walls, said form comprising a pair of vertically extending, spaced, opposed walls respectively formed with a plurality of rows of similar sized openings, the openings of the rows in one of the walls being in horizontal axial alignment with the openings of the rows in the opposite wall and the space between adjacent pairs of openings in each of the rows being substantially the same as the space between the adjacent pairs of rows in each wall and the maximum diameter of the openings respectively being not less than the space between the adjacent pairs of openings, longitudinally rigid elongated tubes extending between said opposed walls and into corresponding openings in said opposed walls at their opposite ends with the latter outer sides of the tubes at said ends in engagement with the edges of the openings whereby concrete wet poured between said opposed walls will be supported between said walls and around the lateral sides of the portions of the tubes between the walls to produce a concrete wall formed with rows of open-ended voids therein corresponding in internal shape to the external contour of said tubes and which voids will correspond in spacing to the spacing of the tubes, and means on the tubes releasably securing said opposed walls against removal outwardly of the ends of the tubes.

2,165,906
FOLDING BOX
Samuel Reich, Brooklyn, N. Y.
Application September 2, 1938, Serial No. 228,149
6 Claims. (Cl. 229—41)



1. A foldable box comprising a polygonal bottom wall and a series of side walls, one side wall of one series being integral with one side of said bottom wall and one side wall of the other series being integral with the opposite side of said bottom wall, the bottom wall being creased along a diameter for collapsing upward between the opposite side walls, while the side walls are all uncreased and folded flat against the opposite sides of the folded bottom wall, and foldable web connections integral with the remaining sides of said bottom wall, each of said web connections being creased to provide an attaching section and a free folding section, the attaching sections of the web connections being adhesively secured to the respective corresponding side walls, said web connections being unfolded when the box is in open position to lie flat against the side walls to which they are secured.

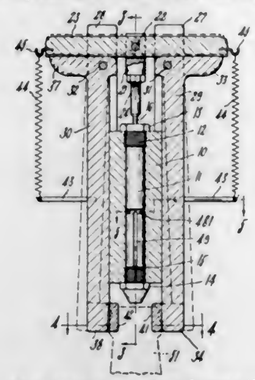
2,165,907
GAME TABLE
Isaac Ruit, Paterson, N. J., assignor of one-half to Daniel Wagner, Paterson, N. J.
Application November 10, 1938, Serial No. 239,805
2 Claims. (Cl. 273—23)



1. In combination, structure affording a substantially plane top playing surface and having substantially parallel upstanding wall portions flanking said surface, a row of substantially parallel partitions adjacent each said wall portion and arranged on said surface, said partitions of one row converging with those of the other row in one direction in which the wall portions horizontally extend, means to secure the partitions of each row to said structure including spaced strips bridging the partitions of such row, and means upstanding above said surface and arranged to check the displacement in said direction of balls from between said rows.

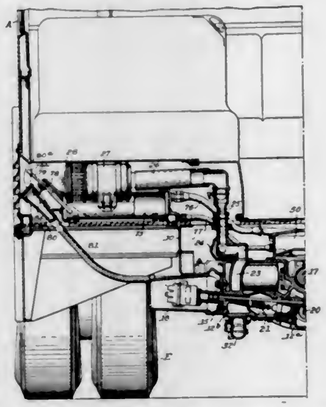
2,165,908
JET DISCHARGING APPARATUS
Frank K. Sparling, William D. Sparling, and Archibald E. Sparling, New Bedford, Mass., assignors to R. and S. Jetter Co., Boston, Mass., a corporation of Massachusetts
Application August 16, 1938, Serial No. 225,160
12 Claims. (Cl. 226—99)

8. A jet delivering apparatus comprising a supporting structure, a nozzle held immovably by said structure, means for conducting fluid under pressure to such nozzle, a valve normally closing the passage through the nozzle, and means comprising pendent arms extending below the nozzle on relatively opposite sides of the emission line thereof in position to be spread apart by the



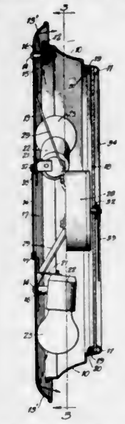
open end of a bottle passing beneath such nozzle for opening the valve.

2,165,909
LUBRICATING SYSTEM FOR MOTOR VEHICLE ENGINES
William R. Spiller, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio, a corporation of Ohio
Application October 5, 1934, Serial No. 747,008
5 Claims. (Cl. 184—6)



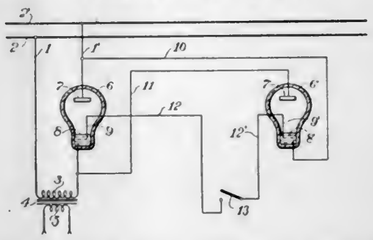
1. In a horizontal dry sump engine of small depth and intended to be supported beneath the flooring of an automobile, said engine being constructed with a lubricating system comprising a supply reservoir located in the upper part of the engine, a receiving reservoir located in the lower part of the engine, a third reservoir forming a separate unit from said engine located at one side of said engine at a higher level than the flooring of the automobile, a conduit connecting said third reservoir with said supply reservoir communicating at one end with the bottom of said third reservoir and at its other end with the bottom of said supply reservoir, a second conduit connecting said third reservoir with said supply reservoir communicating at one end with the top of said third reservoir and at its other end with the top of said supply reservoir, a third conduit communicating at its upper end with the upper portion of said third reservoir and at its lower end with said receiving reservoir, means for delivering oil from said supply reservoir to the bearings of said engine, and means for delivering oil from said receiving reservoir into said supply reservoir capable of effecting the delivery of more oil from said receiving reservoir than is received therein from said supply reservoir.

2,165,910
SIGN
José Trojan, Chicago, Ill., assignor to Owen Housholder and David C. Cohen, a co-partnership doing business as Crystal Manufacturing Co., Chicago, Ill.
Application January 11, 1939, Serial No. 250,264
7 Claims. (Cl. 40—132)



1. A luminous sign of the class described, comprising an annular opaque rim, a back plate attached to and overlying the rear side of said rim and having a forwardly directed peripheral flange projecting beyond and spaced rearwardly from the rear edge of said rim, said flange having a colored front surface, a front plate covering the front side of said rim and bearing sign indicia, and a lamp mounted in said rim for illuminating said flange by light rays passing between said back plate and rear edge of the rim and impinging on said flange.

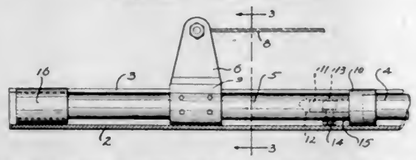
2,165,911
CURRENT CONTROL SYSTEM
Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 5, 1938, Serial No. 194,133
12 Claims. (Cl. 250—27)



1. In a current control system, a primary circuit including an alternating current supply and a load therefor, a pair of rectifiers of the ignitron type, each having an anode, a cathode and a start-

ing electrode, each rectifier connected in series between said supply and said load and said rectifiers being in opposite relation of conductivity, a secondary circuit for controlling the current flow in said primary circuit comprising said starting electrodes conductively interconnected and switching means serially interposed therebetween.

2,165,912
FEED TUBE AND PUSHER
Charles F. Whitman, Detroit, Mich., assignor to Automatic Products Company, Detroit, Mich., a corporation of Michigan
Application July 2, 1937, Serial No. 151,720
7 Claims. (Cl. 29—58)



1. In a screw machine, an elongated continuous stock support extending horizontally therefrom for receiving an elongated stock bar, said support having a lengthwise opening at least as wide as the stock bar fed to said machine and narrower than the maximum internal dimension of said support, whereby said stock bar may be loaded into said support laterally through said opening, a pusher rod in said support, and a flanged member at the forward end of said rod for receiving the rear end of the stock bar.

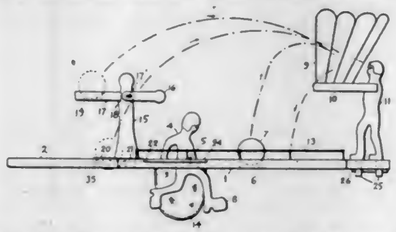
2,165,913
TIE SUPPORT
Alexander John Winter, Toronto, Ontario, Canada
Application June 13, 1938, Serial No. 213,337
In Canada October 26, 1937
11 Claims. (Cl. 24—87)



1. A tie support comprising an elongated unitary member adapted to be applied beneath the tie and having an intermediate part of a breadth sufficient to support the tie across its width, said intermediate part being outwardly curved in lengthwise direction to bulge the tie immediately below the knot, a prong upwardly extending from the intermediate part for insertion in the knot, and prongs carried by the intermediate part for engaging the tie to secure the support.

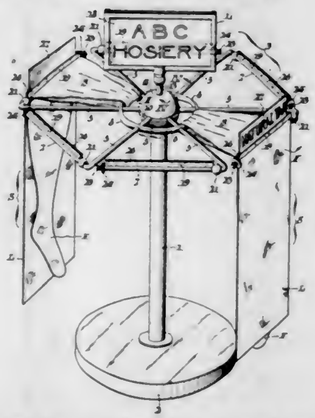
2,165,914
TOY
Gregory Batkin, New York, N. Y.
Application December 3, 1938, Serial No. 243,785
5 Claims. (Cl. 273—96)

1. A toy comprising a board, a ball projecting member mounted for manual operation at the rear end of the board, a post at the front end of the board, a basket at the top of the post open at the front side and at the bottom being adapted to deflect a ball delivered by the projecting member and to guide it downward, the



board being provided with trap holes for the ball deflected by the basket.

2,165,915
DISPLAY STAND FOR STOCKINGS AND THE LIKE
Emil J. Berger, Hatfield, and Howard W. Matthews, Lansdale, Pa., assignors to Dexdale Hosiery Mills, Lansdale, Pa., a corporation of Pennsylvania
Application June 5, 1937, Serial No. 146,564
8 Claims. (Cl. 211—13)

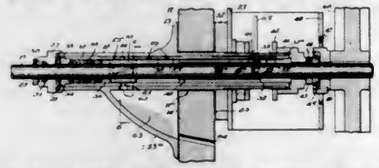


1. A display stand for hosiery and the like comprising an upright standard, and a horizontal spider supported thereby and itself comprising a plurality of divergent arms; anchorages on said spider, for the bights of folded stockings, between adjacent arms; supporting cross-bars carried by and extending between said arms outside of said anchorages, for supporting the upper leg and lower leg portions of folded stockings whose bights are engaged around said anchorages, so that these portions of the stockings extend outward from the anchorages in superposition over the supporting bars and hang downward from the latter; and clamps for coacting with the supporting bars to hold the superposed portions of the stockings evenly spread out along said supporting bars.

2,165,916
BEARING AND SEALING MEANS
Everett S. Bissell, Irondequoit, N. Y., assignor to Mixing Equipment Co., Inc., Rochester, N. Y., a corporation of New York
Application August 18, 1937, Serial No. 159,749
8 Claims. (Cl. 308—36.1)

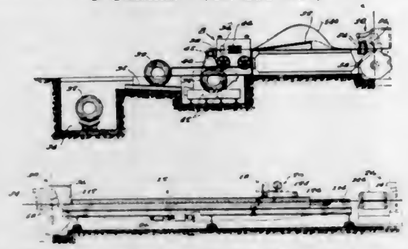
1. In apparatus of the class described, a tubular casing for extension inwardly through a wall

of a fluid holding receptacle, a sleeve detachably mounted within the tubular casing, a shaft extending through the sleeve and the casing, bearing means for the shaft within the sleeve, packing surrounding the shaft within the sleeve and spaced from and in advance of said bearing



means, and means interposed between the packing and the bearing means and lying within the sleeve for intercepting and discharging fluid which may escape past the packing whereby to protect said bearing means from injury by the fluid.

2,165,917
METHOD AND APPARATUS FOR PRODUCING STEEL SHEETS
George E. Black, Sewickley, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 19, 1938, Serial No. 196,934
9 Claims. (Cl. 164—61)



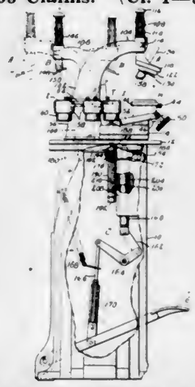
1. The method of producing flat cut-to-length and width steel sheets from a continuous strip thereof having untrimmed longitudinal edges and being of substantially uniform width comprising advancing the strip a distance equal to the length of the sheet to be cut, aligning and holding the advanced portion of the strip in a predetermined position, shearing the strip transversely to form therefrom an individual flat sheet of predetermined length while the strip is thus maintained in said predetermined position, conveying said individual flat sheet while maintaining its longitudinal position of alignment and trimming the edge portions of said sheet while being thus conveyed to thereby produce an individual flat sheet cut to a predetermined length and width.

2,165,918
METAL SHEET PILING APPARATUS
George E. Black, Sewickley, Pa., assignor to H. H. Robertson Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application March 19, 1938, Serial No. 196,935
2 Claims. (Cl. 214—6)



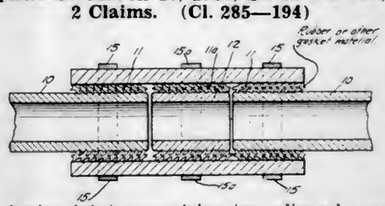
1. Sheet piling apparatus for steel and other metal sheets comprising an elongated supporting frame upon which the pile is to be formed, said supporting frame including at least a pair of elongated runners, at least a pair of cross ties upon which said runners are supported, at least a pair of elongated supporting bars upon which said cross ties are supported, means for pivotally supporting the front end of the supporting frame, a fixed support upon which the rear end of the frame normally rests to dispose the rear end sufficiently below the front end thereof to cause successive steel or other metal sheets delivered one upon the other at the front end of the frame to slide with the assistance of gravity to the rear end of the frame and to form a pile, side guides adjustably mounted upon said cross ties for laterally guiding the sheets during their movement down the frame and a stop member at the rear end of the frame for aligning the ends of the sheets.

2,165,919
MACHINE FOR ATTACHING HEEL PORTIONS
Francis L. Brandt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 29, 1938, Serial No. 248,274
55 Claims. (Cl. 1—32)



1. In a machine for attaching heel-portions to shoes, a plurality of work-supports, a plurality of fastening-inserting means, one of which cooperates with each support, a work-abutment individual to each support, and a carrier for the abutments movable to present selectively each abutment to its support.

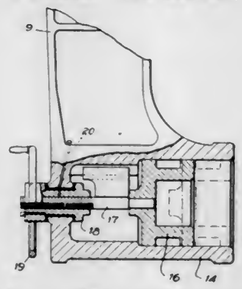
2,165,920
PIPE JOINT
Harold A. Burnip, Cleveland, Ohio, assignor to United States Stoneware Company, Akron, Ohio, a corporation of Ohio
Application March 17, 1938, Serial No. 196,307
2 Claims. (Cl. 285—194)



1. A pipe joint comprising two aligned, spaced-apart pipe sections, means between them for sustaining transverse clamping pressure, at least two sleeve sections overlying the pressure-sustaining

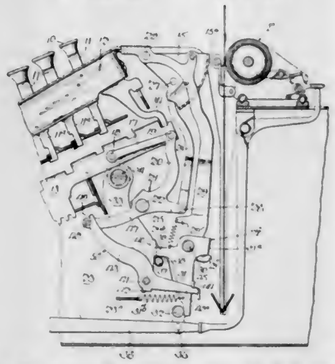
means and portions of the pipe sections, and means clamping the sleeve sections at positions overlying the pipe sections and at a position overlying the pressure-sustaining means.

2,165,921
ROLL HANDLING TOOL
Wentzel R. Duda, Pittsburgh, Pa., assignor to Continental Roll and Steel Foundry Company, a corporation of Delaware
Application July 26, 1938, Serial No. 221,335
2 Claims. (Cl. 294—67)



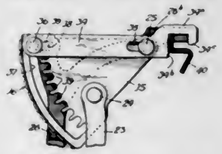
1. A tool for handling rolls, comprising a normally-upright lifting member which is provided at its lower end with a laterally-extending socket formed to fit over a roll extension and being of greater length than is required for handling a roll, and a socket member for engaging a roll extension of smaller diameter and fitting within the first-named socket, the second-named socket member being adjustable axially, so that when its outer end is approximately flush with the outer end of the larger socket, it can be employed in the handling of small rolls, and when retracted toward the inner end of the first-named socket, it will not interfere with the handling of rolls by the larger socket.

2,165,922
PRINTING MECHANISM
Max Garbell, Chicago, Ill., assignor to Victor Adding Machine Company, Chicago, Ill., a corporation of Illinois
Application March 23, 1936, Serial No. 70,269
4 Claims. (Cl. 101—93)



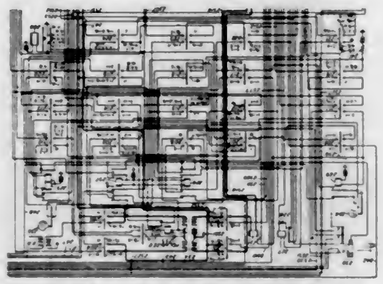
1. In a printing mechanism, the combination with a type carrier pivotally mounted for swinging movements, a member pivotally mounted in relation thereto, said type carrier and member being arranged for a positive movement with each other in one direction of their pivotal movements, spring means connecting the type carrier and member permitting of an advance movement of said type carrier with respect to said member and to retract the same, latch means for holding the member and type carrier in normal position, and a swingable control means normally in the path of said latch means and member for retaining said member to retain the type carrier in normal position, said control means serving to release said latch means and for limiting the movement of said member while the type carrier moves in advance thereof.

2,165,923
RECTIFYING MEANS FOR PRINTING MECHANISM
Max Garbell, Chicago, Ill., assignor to Victor Adding Machine Company, Chicago, Ill., a corporation of Illinois
Application April 2, 1936, Serial No. 72,286
7 Claims. (Cl. 101—93)



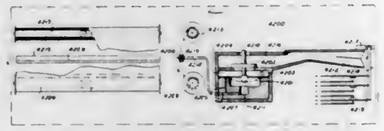
1. In a printing mechanism, the combination with a type-carrying element pivotally carried on a support and adapted to coact with a platen, and a rectifying member carried on the support and adapted to move with and independently thereof to engage and disengage said type-carrying element, a guide for the support in the path of movement of said rectifying member controlling the engagement and disengagement of the rectifying member with the type carrying element upon the movement of said support toward and from the platen.

2,165,924
TELEPHONE SYSTEM
Charles L. Goodrum, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 31, 1933, Serial No. 695,999
Renewed December 14, 1938
9 Claims. (Cl. 179—7.1)



1. In a telephone system, a calling line, a called line, means for identifying said calling line, means for establishing a talking connection between said lines, said means including other means for discriminating between a timed and an untimed connection, timing and registering circuits operably associable with said talking connection, means in said timing and registering circuits responsive to said discriminating means when indicating a timed connection for registering the duration of said talking connection, a tape recorder, and means responsive to the termination of said connection for operably associating said tape recorder with said calling and called line identifying means and said timing and registering circuits for simultaneously recording said calling and called line identifications and the duration of said talking connection.

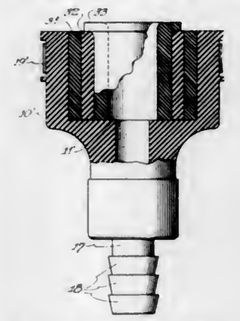
2,165,925
AUTOMATIC BILLING SYSTEM
Charles L. Goodrum, New York, N. Y., Edward E. Hinrichsen, Pasadena, Calif., and Leo Keller, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 15, 1933, Serial No. 698,046
7 Claims. (Cl. 235—61.10)



1. In a billing system for the automatic tabulation of a plurality of charges for a plurality of calls completed from and assessable to a plurality of lines of an automatic telephone system in response to the sensing of a continuous record of the designations of said calls, each of said designations comprising a plurality of groups of notations one of which is instrumental in determining a charge rate and another the duration of a call, a translator comprising a mechanism for sensing said record, a recording mechanism and a translating computer, said computer comprising a relay for each of a plurality of different charge rates, a plurality of groups of charge conductors controlled by said relays, a plurality of multicontact relays to which each group of conductors is extended, means operative in response to the sensing of said one group of notations for operating one of said charge rate relays for making the correspondingly controlled group of charge conductors electrically responsive, means responsive to the sensing of said other group of notations for operating one of said multicontact relays, and means controlled by the operated multicontact relay to extend said group of charging conductors to said recording mechanism for operating the same to record the complete charge for a call.

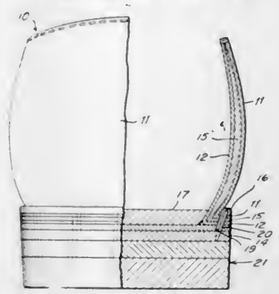
2. In a billing system for the automatic tabulation of a series of transactions chargeable to a plurality of different accounts in response to the sensing of a continuous record of the designations of said plurality of transactions, each of said designations comprising a plurality of groups of notations one of which identifies the correlated account and others of which are instrumental in determining the charge rate and the elapsed time applicable to a transaction, a translator comprising means for sensing said record, a recording means for each of said accounts, means responsive to the sensing of the group of notations of a designation which identifies the account to which a transaction belongs for selecting the one of said recording means appertaining to said account, a translating computer, said computer comprising means responsive to the sensing of the group of charge rate notations of the designation, and means responsive to the sensing of the group of elapsed time notations of the designation, and means jointly controlled by said two last mentioned means for operating the selected recording means for making a record of the total charge for the transaction.

2,165,926
FAUCET ATTACHMENT
Paul Albert Greene, Venice, Calif.
Application July 6, 1938, Serial No. 217,812
1 Claim. (Cl. 285—90)



A clamp of the class described comprising a flexible circular clamping band having one end extended radially and perforated; a tangentially arranged clamping screw passing through said perforation and secured to said radial end by a nut thereon; a bracket comprising an end wall tangentially secured to the other end of said band and provided with circumferentially extending side walls slidably embracing said screw and said radial end, the secured end of said bracket being perforated for the passage of said screw; a cross bar on the inner edge of one of said side walls, extending across the gap between them and having its end turned up and engaging said other side wall; and a nut on the end of said screw.

2,165,927
STITCH-DOWN SHOE STRUCTURE
Isidor Hoffenberg, Milford, Conn.
Application February 21, 1939, Serial No. 257,709
2 Claims. (Cl. 36—16)



1. A stitchdown shoe with a close edge heel seat, comprising an insole, a heel piece over the heel portion of said insole, said heel piece being undercut at its sides and rear and tapered downwardly to a thin front edge, an upper outturned at its entire lower margin, a counter in the heel portion of said upper and having its lower edge outturned, insole stitching connecting to the insole the outturned portion of the counter and the outturned portion of the upper at its entire lower margin, the insole stitching around the heel por-

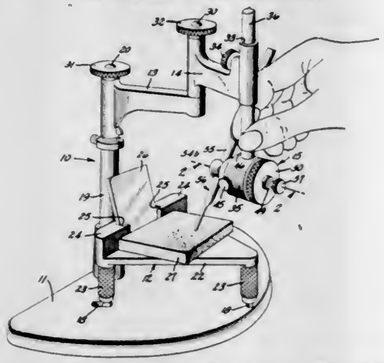
tion of the insole being inclined inwardly and downwardly to draw the upper and counter toward the space beneath the undercut edge of the heel piece, a welt over the outturned portion of said upper, an outsole, and a line of outsole stitching passing through the welt and extending completely around the shoe, the portion of the outsole stitching around the heel of the shoe being inclined and close to the shoe to draw the welt inwardly and conceal the stitching.

2,165,928
BUCKLE FOR BELTS
Irving M. Krischer, Brooklyn, N. Y.
Application September 24, 1938, Serial No. 231,518
8 Claims. (Cl. 24—201)



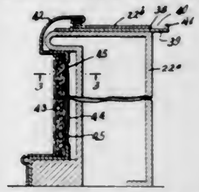
4. A buckle for belts, comprising a right buckle section and a left buckle section, each section having an outer end portion and an inner end portion of circular form in elevation and cupped so that one circular form may fit into the other, elements formed on said outer end portion by which the same may be attached to the end of a strap, and said cupped ends having radial slots extending from their center to their peripheries at different relative points to each other, the material of said cupped ends along opposed sides of each slot being extended slightly outwards to cause the cupped ends to threadedly axially engage each other when placed together with one slot engaging the other slot, said elements comprising a flat portion formed with a slot through which the end of the belt or strap may engage.

2,165,929
INSTRUMENT SHARPENER
John A. Lentz, Phoenix, Ariz.
Application April 9, 1937, Serial No. 135,919
11 Claims. (Cl. 51—157)



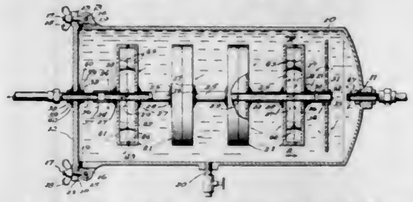
1. In an instrument sharpener, the combination of: a base; a stone on said base having a flat, abrasive surface; an arm pivoted on said base, said arm being swingable in a plane above said stone in parallel relation with said abrasive surface; a second arm pivoted on the free end of said first arm, the plane of movement of said second arm being parallel with the plane of said first arm; a chuck for holding an instrument to be sharpened on said stone, said chuck having a stem; and means on the free end of said second arm for receiving and supporting said stem in perpendicular sliding relation to the abrasive surface of said stone, said instrument being sharpened by swinging said second arm, the contact between said instrument and said stone being constantly maintained by the said slidable relation between said stem and said second pivoted arm.

2,165,930
MODERN STORE EQUIPMENT
Morris Levine and Max Branfeld, New York, N. Y.
Application September 29, 1937, Serial No. 166,284
3 Claims. (Cl. 312—140.1)



1. In a counter, a hollow body having a partially opened front side, and means for resiliently closing said open side to provide a comfortable surface against which one's knees are adapted to rest while standing at said counter.

2,165,931
HOLLOW DISK FILTER AID RETAINING MEDIUM
Jerome B. Levy, Chicago, Ill., assignor to Le Val Filter Company, Inc., Chicago, Ill., a corporation of Illinois
Application January 31, 1938, Serial No. 187,806
2 Claims. (Cl. 210—120)



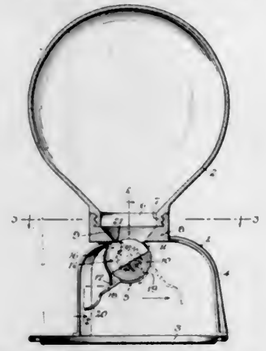
1. A filter aid retaining member for a filtering unit of the character described, comprising a generally cylindrical hollow disk formed of a pair of complementary sections cemented to each other so as to form an unbroken surface for the passage of liquid therethrough, said complementary sections being provided with a plurality of spaced projections on their interiors, said projections on one section abutting against corresponding projections of said other complementary section for providing a relatively large cementing area within the formed member.

2,165,932
COLLAR
Angelo M. Panettieri, Bridgeport, Conn.
Application February 24, 1939, Serial No. 258,213
6 Claims. (Cl. 2—131)



1. In a turned collar, a pair of outer layers of fabric, one being a face forming layer and the other a back forming layer and each comprising a band portion and a flap portion, the ends of the band portions extending beyond the ends of the flap portions, a stiffening flap inter-liner disposed between said flap portions having a lower marginal portion extending between said band portions, and secured by a line of stitching adjacent its lower longitudinal edge to the band portion of the inturned side of said face forming layer, a stiffening band inter-liner disposed between said band portions and secured by a line of stitching adjacent its upper longitudinal edge to the band portion of the inturned side of said back forming layer, said lower marginal portion of said flap inter-liner overlapping the upper marginal portion of said band inter-liner at the side of said band inter-liner away from said back forming layer, the upper edge of said band inter-liner constituting an abutment about which the flap portion of the collar is folded down.

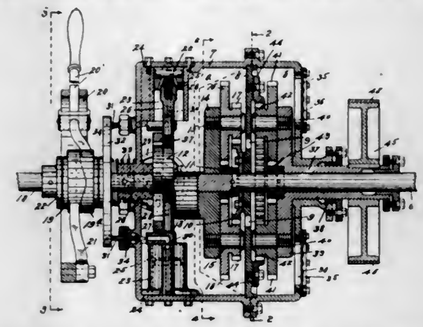
2,165,933
SANITARY DISPENSER
Ernest A. Martin, New York, N. Y.
Application May 24, 1938, Serial No. 209,695
3 Claims. (Cl. 221—106)



2. A sanitary dispenser comprising a container having an exteriorly threaded discharge member, a support for said container including an interiorly threaded tubular member secured on to said discharge member, a hopper positioned within one end of said tubular member, said hopper having an outlet and an arc-shaped depending guard, said tubular member having a pair of depending ears, a valve rotatably carried by said ears and positioned adjacent said guard, said valve being provided with a chamber for receiving articles from said hopper, said valve having a pair of end plates and a bottom member having an extending flange, said guard being positioned to close said chamber until said flange and bottom member close the outlet from said hopper, a manually actuated member for rotating said valve to an open position and a spring for rotating said valve to a closed position.

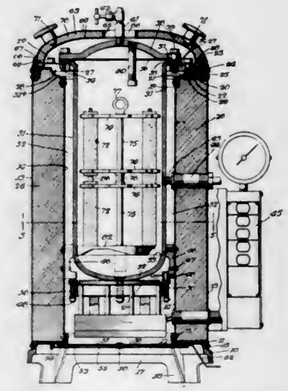
2,165,934
VARIABLE SPEED TRANSMISSION MECHANISM
Robert C. Mealey, Minneapolis, Minn., assignor of one-third to Jacob A. Ronning and one-third to Birdan E. Ronning
Application April 19, 1937, Serial No. 137,604
5 Claims. (Cl. 74—293)

1. In a transmission mechanism, an oil-containing casing, a power shaft extending into said casing and therein provided with a driving pinion, a gear-carrying flange within said casing rotatively mounted on said power shaft, an axial gear within and carried by said casing, a double-faced planetary gear journaled to said gear casing and meshing with the pinion of said shaft and the axial gear of said casing, an eccentric connected to said gear carrier for rotation therewith, a cylinder carried within said casing, a piston in said cylinder operative by rotation of said eccentric, in respect to said casing, said cylinder and piston operating to take in oil from said casing and to discharge the same back into



said casing, and means for varying the circulation of oil into and out of said cylinder and to cut off said circulation, to thereby lock said casing and power shaft for common rotation, in further combination with a sleeve normally loose on said power shaft and extended into said casing and therein provided with a gear-carrier flange, a pinion on said power shaft adjacent said last noted gear carrier, an internal annular gear secured within said casing, and a differential gear journaled to said last noted gear carrier and meshing with said internal annular gear of said casing and the last noted pinion on said driving shaft.

2,165,935
AUTOCLAVE
Carl A. Menzel, Homewood, Ill.
Application July 16, 1937, Serial No. 153,974
17 Claims. (Cl. 23—290)



1. In an autoclave, a casing comprising inner and outer shells and a top ring between the shells, a bracket on the top ring, a boiler suspended from the bracket within the casing and

spaced from the casing to form a flue, a heater for the boiler and means to control draft through the flue.

6. In an autoclave, an insulated casing having a bottom provided with an air inlet opening, a dome-shaped cover mounted on the casing and provided with a hot gas outlet opening, a closed boiler within and spaced from the casing and cover so as to provide a hot gas flue between the boiler and the casing and cover, means mounting the boiler in the casing and maintaining said spaced relation, a heater in the casing between the boiler and the casing bottom, and valve means associated with the air inlet opening for controlling air admitted to the heater and draft through the flue.

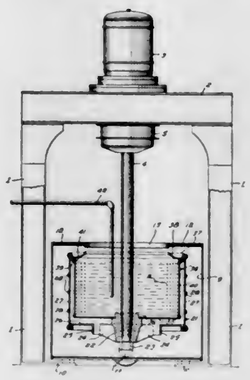
2,165,936

MECHANISM FOR IMPREGNATING ARTICLES WITH FLUIDIC MATERIAL

Edward L. Miller, Moline, Ill., assignor to American Machine and Metals, Inc., New York, N. Y., a corporation of Delaware

Application June 7, 1937, Serial No. 146,745

13 Claims. (Cl. 91—42)



1. A centrifugal machine including in combination an inner perforate basket, an outer imperforate article-containing basket, said outer basket being of larger diameter to provide a fluid space within said imperforate basket and exteriorly to said article-containing perforate basket, means for whirling the baskets together, means for introducing fluidic material within the inner basket, and means for withdrawing fluidic material from the outer basket.

2,165,937

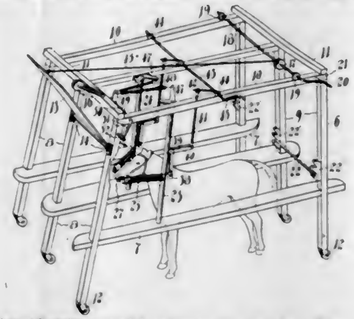
RACE STARTING DEVICE

George Nancarrow, Toronto, Ontario, Canada, assignor of one-tenth to Dorothy Downey, Toronto, Ontario, Canada

Application March 12, 1938, Serial No. 195,470

7 Claims. (Cl. 119—15.5)

1. In a starting device for horse races, in combination, individual constraining means including rigid arms opposingly supported for swinging inwardly toward each other for connection to the bridle of each horse, separable means affording a detachable connection between the arms and the bridle, release means for disconnecting said separable means, means adapted to be operated simultaneously as by an attendant to actuate said release means, and mechanism



for tensioning said arms to cause them to fly outward when released from the bridle.

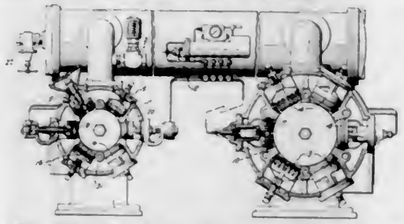
2,165,938

UNLOADER FOR COMPRESSORS

William H. Noble, Easton, Pa., assignor to Pennsylvania Pump and Compressor Company, Easton, Pa., a corporation of Pennsylvania

Application January 15, 1938, Serial No. 185,177

7 Claims. (Cl. 230—26)



1. An unloader for compressors comprising in combination with the intake valves thereof, means to hold said valves in an inoperative position and means operated by an increase in pressure surrounding said valves to render said valves operative.

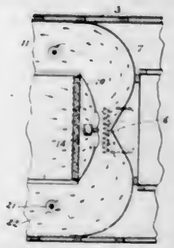
2,165,939

VEHICLE BODY CONSTRUCTION

Dow W. Perkins, Cleveland, Ohio, assignor to The White Motor Company, Cleveland, Ohio

Application October 29, 1936, Serial No. 108,260

4 Claims. (Cl. 98—10)



1. In a vehicle, the combination of a passenger compartment, a chamber above the rear of said compartment and extending from side to side of the latter, conduits provided with outlet ports and extending along the upper sides of said compartment and in communication with opposite sides of said chamber, a filter in a wall of said chamber between said conduits, blower mechanism in said chamber and interiorly adjacent to said filter, a

duplex deflector of S-shaped cross section mounted in said chamber on the opposite side of said blower mechanism with reference to the location of said filter and adapted to intercept air currents from said fan and to divert them to both of said conduits and deflectors juxtaposed to said ports respectively for compelling lateral discharge of air therethrough.

2,165,940

PROCESS FOR IMPROVING FUEL OIL

Mathias Pier, Heidelberg, and Ernst Donath, Mannheim, Germany, assignors to Standard-I. G. Company, Linden, N. J., a corporation of Delaware

No Drawing. Application December 24, 1937, Serial No. 181,700. In Germany December 28, 1936

6 Claims. (Cl. 196—53)

1. A process for the improvement of fuel oils of poor quality which comprises treating them with a hydrogenating gas in the presence of a large proportion of a hydrogenation catalyst while correlating and adapting to each other and to the initial material the temperature, the pressure and the throughput in such a manner that the hydrogen content of the initial oil is enriched by an amount of between 0.1 and 1 per cent.

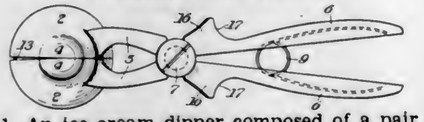
2,165,941

ICE CREAM DIPPER

Robert J. Price, Uniontown, Pa.

Application May 11, 1938, Serial No. 207,250

7 Claims. (Cl. 107—48)



1. An ice cream dipper composed of a pair of open bottom semicones having rounded closing tops, the rear edge portions of which are in lengthwise contact when closed to limit complete closing of the opposite edges, said opposite edges being so disposed as to make closing contact at the top and provide an opening towards the bottom for air venting in filling, and handles therefor pivoted to each other and provided with an opening spring.

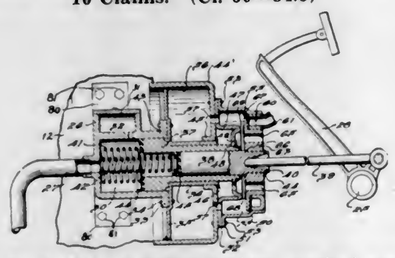
2,165,942

FLUID PRESSURE OPERATED MASTER CYLINDER

Peter F. Rossmann, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application August 19, 1936, Serial No. 96,750

10 Claims. (Cl. 60—54.6)



3. In a fluid actuator system, control means comprising a fixed casing containing a fluid chamber connected with the system, said casing having an opening therein at one end of the chamber, an abutment fixed to the casing and having an axially extending bearing sleeve aligning with the opening in the casing, a piston in said chamber and mounted in the bearing sleeve, a housing telescoping the abutment and having a hub slidably mounted on the bearing sleeve, and selective connections for the interior of the housing whereby it is open to atmospheric pressure or less than atmospheric pressure.

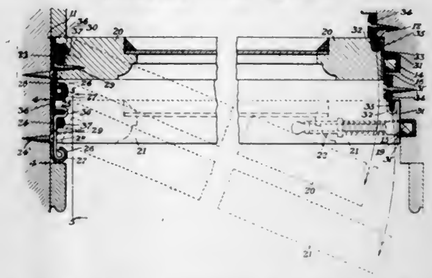
2,165,943

WINDOW CONSTRUCTION

George Schuler, Woodside, N. Y.

Application March 23, 1938, Serial No. 197,565

3 Claims. (Cl. 20—44)



1. A window construction comprising a frame formed with a single recess in one side thereof, a guide fixture carried in said recess by the frame and extending from the lower to the upper side thereof in fixed relation, said fixture formed from a strip and comprising a cylindrical socket at one side thereof which extends from the lower to the upper end thereof, and a flange at its opposite side which extends at an angle to the face of the strip; and a sash having a strip mounted thereon at one side thereof and formed to provide a co-acting hinge portion which fits in the cylindrical portion of the hinge in slidable relation therewith, and the opposite side of which is formed U-shaped to receive the flange carried by the said fixture.

2,165,944

MANUFACTURE OF ARSENIC ACID

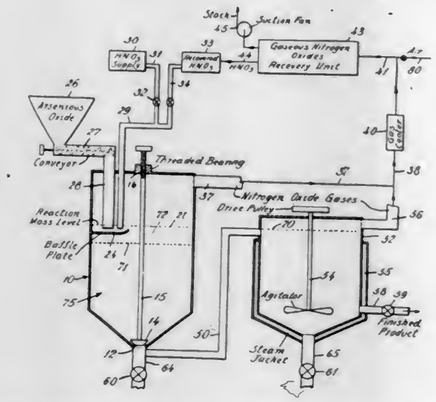
Garnett L. Scott, Wilmington, Del., assignor to General Chemical Company, New York, N. Y., a corporation of New York

Application May 22, 1937, Serial No. 144,249

5 Claims. (Cl. 23—144)

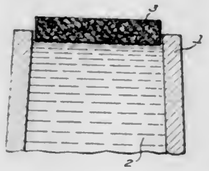
1. The method for making arsenic acid which comprises maintaining in a reaction zone, heated to reaction temperatures, a relatively quiescent liquid body comprising at least partially reacted nitric acid and arsenious oxide, continuously and quiescently feeding, in the absence of substantial agitation, to the surface portion of said body arsenious oxide and at least reacting proportions of nitric acid of density less than that of said body, effecting contact of reactant nitric acid and arsenious oxide without substantial dilution of nitric acid by reaction products and without substantial diffusion of fresh incoming nitric acid into said body, continuously withdrawing nitrogen oxide gas from said reaction zone, continuously withdrawing from said reaction zone a portion of said liquid body, regulating introduction of nitric acid and arsenious oxide into and withdrawal of liquid body from said zone so

as to effect therein reaction of arsenious oxide to not less than about 80% of completion and so as to maintain the concentration of said liquid body not less than about 65° Bé., introducing



said portion into a second reaction zone, heated to reaction temperatures, and therein effecting further reaction of nitric acid and arsenious oxide.

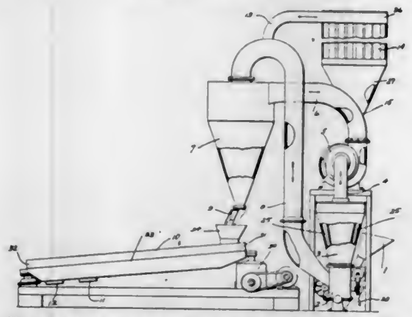
2,165,945
CASTING METALS
Kenneth Seaver, Oakmont, Pa., assignor to Harbison-Walker Refractories Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 28, 1936, Serial No. 107,967
15 Claims. (Cl. 22—216)



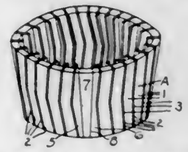
1. That method of casting a metallic ingot which comprises the steps of pouring metal into an ingot mold, closing the mold opening with a slab of cellular combustible material bonded with heat-resisting material in the form of a porous, heat-resistant and heat-insulating structure of low mass-to-volume ratio which floats on the upper surface of the metal in the mold, and permitting the metal in the mold to solidify with concurrent charring of the combustible material in the slab, and thereby minimizing the piping and croppage losses in the ingot.

2,165,946
HANDLING OF DUSTS, ETC.
Claude H. Smith, Tallmadge, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application July 30, 1936, Serial No. 93,395
4 Claims. (Cl. 83—94)

1. The method of treating a material which on pulverizing possesses a negative triboelectric charge, which comprises dry pulverizing it to dust form in a rubber-lined pulverizer, floating it in a blast of air through a rubber-lined duct to a rubber-lined separator and therein separating the dust from the air used to convey it.



2,165,947
GLUED JORDAN LINING
Harold D. Stuck, Lawrence, Mass., assignor to John W. Bolton & Sons, Inc., Lawrence, Mass., a corporation of Massachusetts
Application January 16, 1936, Serial No. 59,432
15 Claims. (Cl. 92—27)



1. A bodily transportable preassembled lining for a Jordan engine shell which consists of bent knives between which are bent separators attached to the knives by an adhesive.

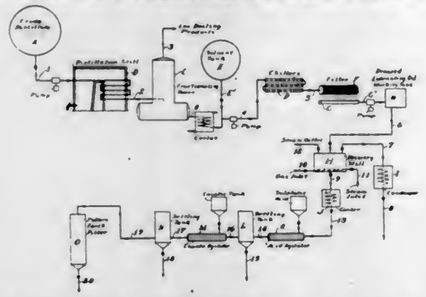
2,165,948
PREPARATION OF SOLUBLE PHOSPHATES
Edward A. Taylor, Shaker Heights, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 21, 1937, Serial No. 138,166
1 Claim. (Cl. 23—107)

In a process for producing soluble phosphates, the step comprising treating calcium di-metaphosphate made by adsorbing P_2O_5 in molten phosphate rock, in aqueous solution, with a sulfate the cation of which is included in the group consisting of ammonium and sodium ions.

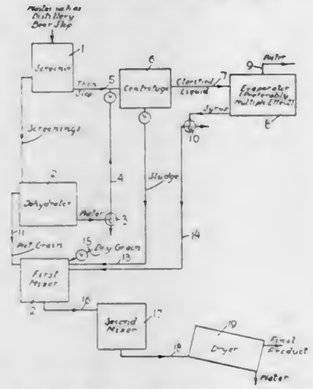
2,165,949
TREATING LUBRICATING OIL FRACTIONS
Cary R. Wagner, Chicago, Ill., assignor, by direct and mesne assignments, of one-half to The Pure Oil Company, a corporation of Ohio
Application December 17, 1930, Serial No. 502,951
3 Claims. (Cl. 196—18)

1. The process of producing lubricating oil from an uncracked wax distillate which comprises mixing said uncracked distillate having a boiling point above that of gas oil with a solvent liquid containing sufficient methyl ethyl ketone so that at temperatures of approximately 100° F. the solvent liquid has substantially complete solvent action on said distillate and at a temperature of 0° F. has substantially no solvent action

on the wax-containing bodies therein and upon removal of said wax-containing bodies and solvent the said distillate has a cold pour point substantially the same as the temperature of refrigeration to which the distillate is subjected for wax removal, refrigerating the mixture to a temperature substantially similar to the low pour point desired in the final product to form a pressable wax mixture, pumping said mixture under pressure into a filter press, separating the wax from diluted oil, in the absence of extraneous cellular filter aid material, by means of said filter press, and separating the solvent liquid from the separated oil solution.



2,165,950
PROCESS FOR THE DEHYDRATION OF MOISTURE-CONTAINING COMPOUNDS
Herman F. Willkie and Clair S. Boruff, Peoria, Ill., assignors to Hiram Walker & Sons, Inc., Peoria, Ill., a corporation of Michigan
Application February 25, 1935, Serial No. 8,202
3 Claims. (Cl. 99—5)

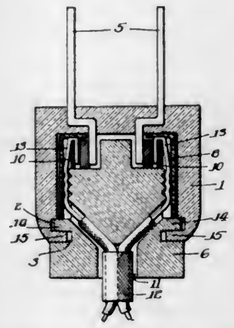


1. The process of dehydrating distillery beer slops, which consists in separating said slops into screenings and thin slop, extracting substantially 23% by weight liquid from said screenings and leaving a wet-grain residue containing substantially 43% by weight solids, adding said liquid and said thin slop one to the other, centrifuging said added liquid and thin slop into a sludge, containing substantially 20% by weight solids, and a clarified slop, evaporating said clarified slop to a syrup containing substantially 50% by weight solids, adding said wet-grain residue, sludge and syrup together, said sludge being added in small pieces only, mixing said wet-grain residue, sludge and syrup until said mixture is in a fluffy condition, and drying said mix.

2,165,951
PLASTICIZER
Charles F. Winans, Akron, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 9, 1936, Serial No. 100,033
6 Claims. (Cl. 260—110)

1. A plasticized composition which comprises a condensation derivative of rubber and an amyl cyclohexane.

2,165,952
ELECTRICAL CORD CONNECTION
Ernest Frederick Alstrom, Jr., Cicero, Ill.
Application February 1, 1937, Serial No. 123,396
10 Claims. (Cl. 173—334)

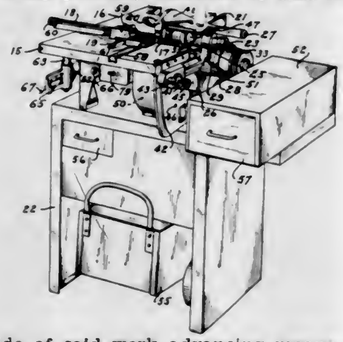


5. The combination of a separable electric plug connection cup of insulation, with a pair of metal prongs imbedded in the bottom wall thereof, these prongs having connection with outside metal engaging portions for separable engagement with other metal contacts, and having two duplicate inside engaging portions spaced apart a distance inside the interior of the cup, a body of insulation formed for insertion in said cup and having its inner end provided with two duplicate electrodes for engagement with the outer sides of said inside portions, the two electrodes thereby having interchangeable engagement with said inside engaging portions, and a pair of conductors leading to the outer end of said body and through the latter to said electrodes, the cup and body being interlocked against separation when relatively positioned rotatively in one direction, and being unlocked when relatively positioned rotatively in the opposite direction, the said interlock limiting rotation in said first direction, said conductors comprising wires bent over said electrodes, and a removable sleeve of insulation on said body to hold said wires in bent engagement with said electrodes, so that by removing said sleeve the wire can be pulled out.

2,165,953
CUTTING MACHINE
Fredrick W. Billker, Milwaukee, Wis., and John B. Ball, Chicago, Ill., assignors to Milwaukee Saw Trimmer Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application March 29, 1935, Serial No. 13,604
20 Claims. (Cl. 29—69)

1. In a cutting machine, a frame, a cutter cooperable with said frame, means comprising a gage bar and clamp for advancing work over said frame past said cutter, and an extension gage for definitely positioning abnormally long work relative to said bar and clamp, said extension

gage being pivotally attached to said frame at



the side of said work advancing means remote from said cutter.

2,165,954

DEVICE FOR TIME-CONTROLLING THE OPENING OF PARACHUTES

William Bird, Buffalo, and Donald R. Clark, Amherst, N. Y.

Application March 31, 1937, Serial No. 134,030
12 Claims. (Cl. 244—150)



5. A time-control device for causing parachutes to open, comprising a casing having a clock-spring therein, a shaft extending therethrough for winding up and straining said clock-spring, retention means to hold said shaft under strain of said clock-spring, said retention means including a ratchet wheel and an eccentrically-mounted detent lever engaging said ratchet wheel, timing mechanism carried by said casing and retained against actuation, a cord adapted for connection with a parachute pack, said cord having take-up connection with said shaft and being held in slack condition when said shaft is maintained under strain of said clock-spring, and means interposed between said time-control device and said detent-lever to be actuated by said time-control device and cause release of said retention means so as to permit the automatic winding up of said cord and cause said parachute pack to be opened.

2,165,955

WEAR-RESISTANT SURFACE

Daniel van der Merwe Haarhoff, Alberton, Union of South Africa, assignor to Anti-Abradants (Proprietary) Limited, Johannesburg, Union of South Africa

Application February 23, 1939, Serial No. 258,112
In the Union of South Africa December 18, 1937
6 Claims. (Cl. 91—68)



1. An article having a wear-resistant composite surface comprising at least one layer of rubber primer, at least one layer of vulcanized sponge rubber on top of said primer, at least one further layer of rubber primer on top of said sponge rubber, at least one layer of grains of a hard and tough wear-resistant material on top of said further rubber primer layer, and at least a third rubber primer layer on top of said wear-resistant material.

2,165,956

CHLORO-METHYL ALKYL PHENOLS

Arnold Brunner, Frankfort-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application February 26, 1937, Serial No. 128,025. In Germany March 5, 1936
10 Claims. (Cl. 260—623)

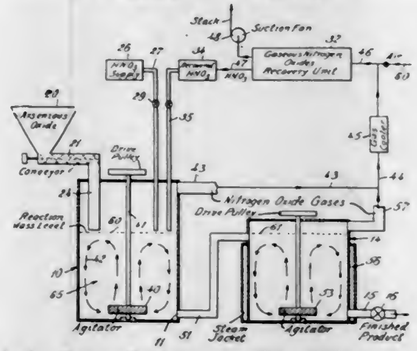
1. The process which comprises heating phenols substituted in the nucleus by aliphatic hydrocarbon radicals having at least 4 carbon atoms with aqueous formaldehyde-solution saturated with hydrochloric acid.

2,165,957

METHOD OF PRODUCING ARSENIC ACID BY REACTION OF NITRIC ACID AND ARSENIOUS OXIDE, WITH RECOVERY OF NITRIC ACID

Bernard M. Carter, Montclair, N. J., assignor to General Chemical Company, New York, N. Y., a corporation of New York

Application May 22, 1937, Serial No. 144,284
2 Claims. (Cl. 23—144)



1. In the method for reacting nitric acid and arsenious oxide to form arsenic acid with recovery of nitrogen oxides evolved, the steps comprising maintaining in a reaction zone, heated to reaction temperature, a relatively liquid body of at least partially reacted arsenious oxide and nitric acid, continuously feeding into said body solid arsenious oxide and at least a sufficient amount of nitric acid to complete the reaction and continuously effecting reaction of nitric acid and arsenious oxide and relatively steady evolution of nitrogen oxide gas of substantially constant volume and composition, continuously withdrawing said nitrogen oxide gas from said reaction zone, continuously withdrawing from said reaction zone a portion of said liquid body, regulating introduction of nitric acid and arsenious oxide into and withdrawal of liquid body from said zone so as to effect therein reaction of arsenious oxide to not less than about 80% of completion, introducing said portion into a second reaction zone, heated to reaction temperature and therein effecting further reaction of nitric acid and arsenious oxide in liquid phase and accompanying evolution of further quantities of nitrogen oxide gas, continuously mingling such further quantities with said nitrogen oxide gas withdrawn from the first-mentioned reaction zone, continuously introducing the resulting gas mixture into an absorption recovery unit, and recovering nitrogen oxide gases therein.

2,165,958

APERIODIC ANTENNA

Philip S. Carter, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application December 23, 1933, Serial No. 703,801, now Patent No. 2,099,296, dated November 16, 1937. Divided and this application November 27, 1936, Serial No. 112,967
4 Claims. (Cl. 250—33)



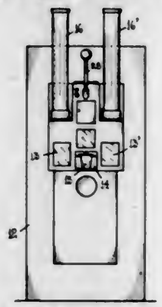
1. The combination with an open-ended antenna which is at least as long as the length of the operating wave adapted to function over a wide range of frequencies, of a power absorbing device located near the open end of said antenna, said device comprising a metallic body of appreciable surface area and a resistance adjacent said body and serially connecting said body to said antenna, whereby said antenna is rendered substantially aperiodic over said range of frequencies.

2,165,959

DRINK VENDING MACHINE

Carl O. Christianson, Ames, Iowa

Application May 24, 1937, Serial No. 144,405
10 Claims. (Cl. 225—21)



1. In a drink vending machine, a mixing receptacle, mechanism including a pair of normally seated outlet valves for controlling a movement of a measured liquid under pressure to the mixing receptacle, mechanism including a measuring-cup for controlling a movement of syrup to said mixing receptacle, a control-shaft provided with contact-members, means for moving the control-shaft longitudinally to dispose one of its contact-members in operative proximity to the measuring-cup, and an operating shaft connected with the control-shaft and adapted to be rotated to cause coincident unseating of the outlet valves to permit a movement of said liquid to the mixing receptacle and rotation of the control-shaft to cause actuation of the measuring-cup for a movement of syrup to said mixing receptacle.

2,165,960

AGE RESISTOR

Albert M. Clifford, Stow, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 17, 1936, Serial No. 59,569
15 Claims. (Cl. 18—50)

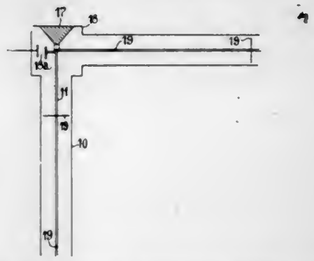
1. A method of preserving rubber which comprises treating the same with an amino derivative of a biarylene oxide to impart age-resisting properties to said rubber.

2,165,961

HIGH FREQUENCY SIGNALING SYSTEM

Edward Cecil Cork, Ealing, London, and Joseph Lade Pawsey, Hillingdon, England, assignors to Electric & Musical Industries Limited, Hayes, England, a company of Great Britain

Application October 21, 1936, Serial No. 106,750
In Great Britain October 22, 1935
26 Claims. (Cl. 178—44)



1. A high frequency signaling system, including a feeder comprising a conductor spaced from another conductor and feeding a load, the variation of the input impedance of said feeder within the operating frequency band due to localised impedance introduced between said conductors being prevented or substantially prevented by introducing in said feeder localised impedance so located with respect to said first-mentioned impedance as to neutralize the effect produced thereby.

2,165,962

PRODUCTION OF ALKYLIDENE DIETHERS OR ETHER-ESTERS

Martin Mueller-Cunradi and Kurt Pieroh, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application October 22, 1937, Serial No. 170,424. In Germany October 29, 1936
4 Claims. (Cl. 260—615)

1. A process for the production of alkylidene ethers which comprises causing vinyl ethers to react with compounds of the group consisting of alkylidene diethers and ether-esters in the presence of inorganic, practically anhydrous acid reacting catalysts capable of promoting the polymerization of vinyl ethers.

2,165,963

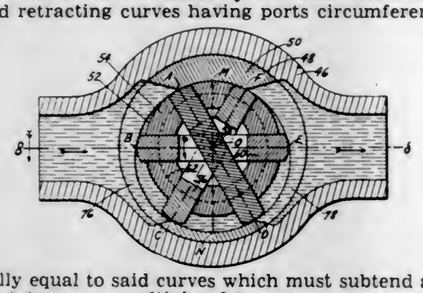
CONSTANT FLOW NONPULSATING PUMP

William H. Curtis, Elyria, Ohio, assignor to Curtis Pump Company, Dayton, Ohio, a corporation of Ohio

Application April 25, 1938, Serial No. 204,108
10 Claims. (Cl. 103—136)

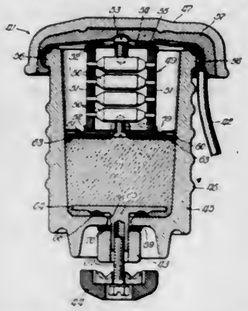
1. In a pump of the offset rotor sliding vane type, a pump body having a right somewhat cylindrical bore, a normal cross section of which is defined by two opposite concentric arcs of unequal radii, with vane extending and retracting curves joining adjacent ends of said arcs, there being tangents common to the arcs and curves at their points of juncture, a cylindrical rotor having a diameter of twice the smaller of the two radii, rotatably positioned with its axis at the centers of the arcs, said rotor having radial vane

slots, vanes slidable in said slots, the number of vanes being an even number necessarily greater than four, the ends of the vanes being always in contact with said bore, the surfaces defined by the arcs of the smaller and larger radii respectively constituting a sealing and pumping zone, each subtending any whole number of vane spans, and the surfaces defined by the vane extending and retracting curves having ports circumferen-



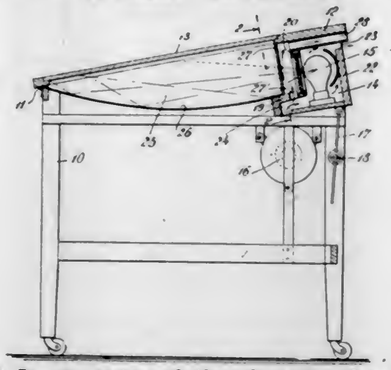
tially equal to said curves which must subtend at least two or a multiple of two vane spans, said curves being so formed that, with constant angular velocity of the rotor, there will be uniform acceleration of the movement of a vane in a slot as the end of the vane passes over the first half of the curve and uniform deceleration of the movement of said vane in its slot as its end passes over the second half of the curve.

2,165,964
LIGHTNING ARRESTER
Ralph H. Earle, Wauwatosa, and Alwin G. Steinmayer, Milwaukee, Wis., assignors to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Continuation of application Serial No. 716,244, March 19, 1934. This application April 4, 1936, Serial No. 72,734
1 Claim. (Cl. 175—30)



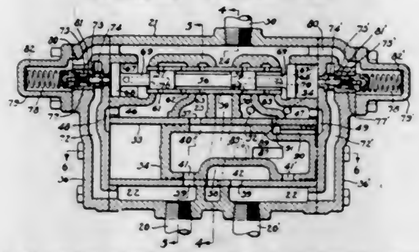
In a lightning arrester for an alternating current power transmission line operating at a power frequency of 60 cycles or less, in combination, a spark gap assembly, a pair of spaced apart electrodes, a mass of electric valve material interposed therebetween, said spark gap assembly being connected in series circuit relation with said electrodes and valve material and the combination being disposed to be connected between said line and ground, and a glass housing having relatively thick walls surrounding said spark gap assembly and said valve material which permits light rays emanating from the interior thereof to be visible from substantially any point around the lightning arrester and which permits a visual inspection to determine the existence of any variations from the normal condition thereof.

2,165,965
RETOUCHING AND STRIPPING FRAME
Arthur H. Gaebel, Larchmont, N. Y., and Arnold K. Hansen, Alexandria, Va.; said Hansen assignor to said Gaebel
Application March 9, 1937, Serial No. 129,778
10 Claims. (Cl. 95—102)



1. In apparatus of the character described, the combination of a translucent screen, a source of light positioned beyond the margin thereof, and a curved reflector spaced in fixed relation from the rear of said screen and forming a chamber therewith which decreases in depth from adjacent the light source to the end of the chamber remote from the light source and into which light from said source is directed, and means interposed between the chamber and the light source for directing a greater amount of light onto the reflector in the remote part of the chamber than adjacent the light source to illuminate the screen uniformly.

2,165,966
HYDRAULIC MOTOR
Fred B. Hall and Franklin G. Treat, Worcester, and Harold F. Walton, Holden, Mass., assignors to Riley Stoker Corporation, Worcester, Mass., a corporation of Massachusetts
Application May 26, 1937, Serial No. 144,906
11 Claims. (Cl. 121—158)



1. A valve mechanism for a hydraulic motor having a reciprocable element arranged to be actuated in opposite directions by hydraulic pressure comprising a main reversing valve arranged to be actuated in opposite directions by hydraulic pressure and to control the supply of fluid for actuation of the reciprocable element, a reversing pilot valve arranged to be actuated in opposite directions by hydraulic pressure and to control the supply of fluid for actuation of the main valve, means providing two passages arranged for the admission of fluid for the actuation of the pilot valve in opposite directions, the main valve serving to direct pressure fluid into said passages alternately, and valve means associated with each

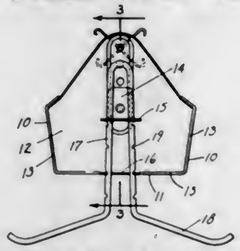
passage arranged to allow free outward flow therethrough and to prevent inward flow therethrough until the fluid pressure exceeds a predetermined value.

2,165,967
FOLDING UMBRELLA
Hans Haupt, Berlin-Steglitz, Germany
Application February 25, 1937, Serial No. 127,694
In Germany October 17, 1935
10 Claims. (Cl. 135—46)



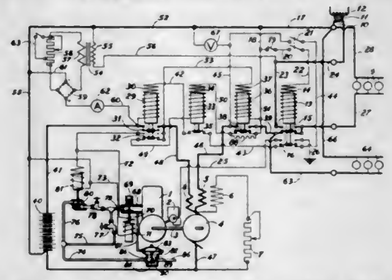
1. In a frame for a folding umbrella, comprising telescoping stick members, telescoping rib members, and a runner shiftable on the said stick members and across the joint thereof, the said stick members being different in cross-section, the improvement herein described which consists in forming the outer stick member to polygonal cross-section throughout substantially all its extent and the inner stick member to polygonal cross-section at its outer end, adapting it to make sliding engagement within the outer stick member, and forming the inner stick member elsewhere and throughout the greater portion of its extent to cylindrical cross-section and of a diameter substantially that of a circle inscribed within the polygon of the outer stick member.

2,165,968
POULTRY TROUGH
Dewey H. Hill, Macomb, Ill., assignor to Globe American Corporation, Kokomo, Ind., a corporation
Application January 22, 1938, Serial No. 186,349
1 Claim. (Cl. 119—61)



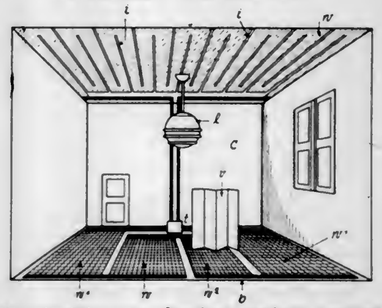
In combination, a trough having a bottom and end walls, a guide bracket on each wall, said bottom having a slot in each end vertically alined with its respective bracket, and a standard for each end comprising a spring wire bent intermediate its ends into U-shape to provide substantially parallel portions, said portions being spaced apart a distance substantially equal to the width of said slot and bracket and having a tendency to spring apart, notches on the sides of said portions to engage in the ends of said slot and adjacent edges of the guide bracket, said notches including supporting shoulders disposed at right angles to said standard to engage with the ends of said slot and adjacent edges of said bracket, and the extremities of said portions being deflected divergently to form supporting feed, said shoulders constituting stops to prevent downward movement of the trough relative to the parallel portions when the ends of the slot and adjacent edges of the bracket are in supporting engagement on the shoulders.

2,165,969
PRIME MOVER DYNAMO PLANT
Reuben L. Humbert and Earl R. Witzel, Kohler, Wis.
Application June 17, 1938, Serial No. 214,181
6 Claims. (Cl. 290—30)



1. In a prime mover dynamo plant, the combination of a dynamo, a prime mover, cranking means therefor comprising a motor field winding, a battery, a cranking circuit including said battery and said motor field winding, an electromagnetic switch adapted when energized to close said cranking circuit and when de-energized to open said cranking circuit and comprising an electromagnetic coil in shunt relationship to said cranking circuit, and an electrical relay in circuit with said battery and adapted to close the circuit to said electromagnetic switch upon a demand for current from said dynamo, said electromagnetic switch being opened by the de-energization of said electromagnetic coil, said de-energization being directly and solely occasioned by the falling off of current in said cranking circuit upon starting of said prime mover.

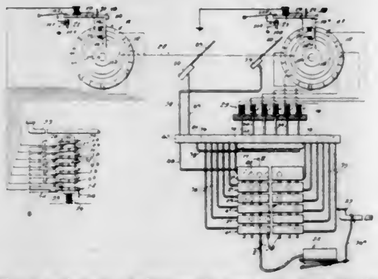
2,165,970
ELECTRIC HEATING SYSTEM OPERATING BY HEAT RADIATION
Bernhard Jaspers, Mannheim-Kafertal, Germany
Application June 28, 1935, Serial No. 28,914
In Germany April 27, 1932
3 Claims. (Cl. 219—34)



1. An electric room-heating system, comprising heating sheets disposed on an inner bounding sur-

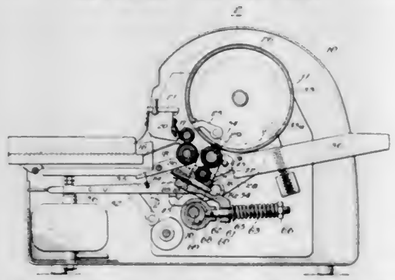
face of the room to be heated and presenting a comparatively large heating surface, said sheets having a flat metal body consisting of a material of low ohmic resistance and being transversely extensive with respect to the direction of the current flow so as to constitute a multitude of juxtaposed and parallel current paths, and means for connecting each of said heating sheets with an energizing circuit, said means having a low-voltage output circuit insulated from said energizing circuit and connected with said metal body, said connecting means and said body being designed to maintain said sheet at a temperature slightly above the desired room temperature.

2,165,971
PRINTING TELEGRAPH SYSTEM
Henry W. Kloid and Otto F. Schulz, Chicago, Ill., assignors to Schulz Brothers Company, Chicago, Ill., a corporation of Illinois
Application July 8, 1935, Serial No. 30,224
36 Claims. (Cl. 178—23)



1. In a printing telegraph system, a distributor, a plurality of code sending contacts electrically connected with said distributor for sending code impulses over said line, electrical means electrically connected to said distributor for receiving impulses from said line, and automatically operable means for making said sending means ineffective during receiving.

2,165,972
DUPLICATING MACHINE
Stephen Kokay, Chicago, Ill., assignor to Ditto, Incorporated, Chicago, Ill., a corporation of West Virginia
Application June 28, 1937, Serial No. 150,805
13 Claims. (Cl. 101—132)



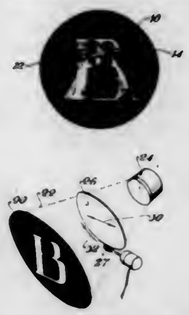
1. In a duplicating machine, a frame, a rotatable duplicating drum mounted in the frame, a platen roller engageable and co-operating with said drum, means pivoted in said frame for rotatably journalling said platen roller, the pivotal axis of said means being spaced from the axis of rotation of the platen roller, yielding means urging said pivoted means into a position wherein said platen roller is pressed against the drum, a member movably mounted on said pivoted means, a second roller rotatably journalled on said movably mounted member and engaging said platen roller to prevent bowing thereof as a result of the force with which the platen roller abuts against the drum, and means for bringing said movably mounted member into a plurality of adjusted positions to vary the force with which said second roller engages said platen roller.

2,165,973
LIGHT-POLARIZING BODY
Edwin H. Land, Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application June 24, 1936, Serial No. 86,908
4 Claims. (Cl. 88—65)



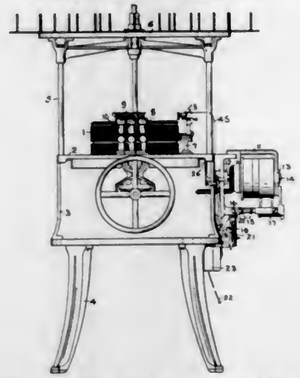
1. In combination, a supporting element, a suspension of needle-like areas of herapathite in a cellulosic medium, said areas being oriented with their polarizing axes in substantial parallelism, said medium encompassing said areas and being adhesively affixed to said supporting element, said areas being distributed throughout said medium in the form of a plurality of discontinuous layers, the areas of one layer overlying the interstices between areas of an adjacent layer.

2,165,974
DISPLAY DEVICE EMPLOYING POLARIZED LIGHT
Edwin H. Land, Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application May 20, 1938, Serial No. 209,061
9 Claims. (Cl. 40—130)



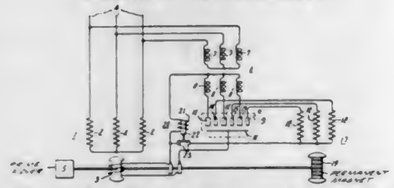
1. In combination, a light source, means interposed in the path of beams emanating from said source for providing a plurality of superimposed light-polarizing surfaces, the polarizing axis of one surface being positioned at substantially right angles to the polarizing axis of the other surface, each surface forming a design comprising areas adapted to transmit to different degrees light predeterminedly polarized, additional light-polarizing means positioned in the path of said beams and between said source and an observer, and means for predeterminedly altering the vibration direction of light issuing from said source and traversing said additional light-polarizing means and said surfaces.

2,165,975
STOP MOTION
Robert H. Lawson and William L. Smith, Jr., Pawtucket, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application October 11, 1935, Serial No. 44,597
In Canada October 20, 1934
6 Claims. (Cl. 66—157)



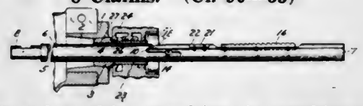
1. A stop motion for a multi-feed knitting machine including an electric circuit and individual stop motions associated with each of several feeds, the circuit including detachable current carrying parts, the construction being such that by detaching certain ones of said current carrying parts the stop motions at several of the feeds may be rendered ineffective without rendering ineffective the stop motions at the other feeds.

2,165,976
EXCITATION SYSTEM FOR DYNAMO-ELECTRIC MACHINES
Arthur Mandl, Sheffield, England, assignor to General Electric Company, a corporation of New York
Application January 25, 1937, Serial No. 122,243
In Germany February 17, 1936
5 Claims. (Cl. 171—119)



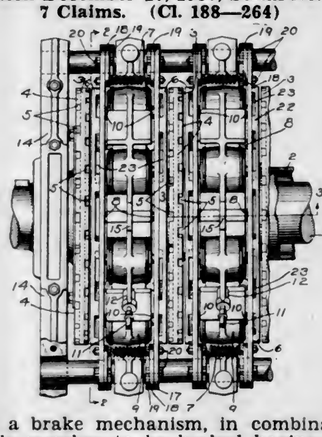
1. In combination, a dynamo-electric machine having an armature winding and a relatively movable field winding, electronic discharge means for energizing said field winding comprising a plurality of principal arc discharge paths connected to be energized from said armature winding and a plurality of auxiliary arc discharge paths, an auxiliary alternating current generator having a permanent magnet field member for energizing said auxiliary arc discharge paths to energize said field winding in order to increase the excitation of said dynamo-electric machine to a value sufficient to initiate electric discharges within said principal arc discharge paths, and means responsive to a predetermined electrical condition of said machine for effecting energization of said field winding from said principal arc discharge paths when the excitation of said machine attains a predetermined value.

2,165,977
BROACHING DEVICE
Thomas Maxwell, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 26, 1936, Serial No. 81,856
8 Claims. (Cl. 90—33)



1. In a broaching machine, in combination, a fixed draw-head, an abutment cooperating with said draw-head for engagement with a tubular member to be broached, a broaching bar adapted to be drawn longitudinally through said tubular member for broaching an interior surface of the member, said broaching bar comprising a section on which the tubular member is adapted to be placed and supported preparatory to being broached and also comprising a broaching section adapted to be attached to the first mentioned section while the tubular member is on the first mentioned section, said broaching section, when the tubular member is in engagement with said abutment, being movable through the member by the first mentioned section.

2,165,978
BRAKE MECHANISM
Frank E. Miller, Swissvale, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application December 17, 1937, Serial No. 180,347
7 Claims. (Cl. 188—264)

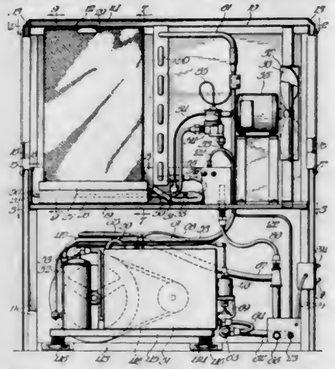


1. In a brake mechanism, in combination, a rotatable member to be braked having a friction braking face, a non-rotatable braking element having a friction braking face, means for moving said element into frictional braking engagement with said member, means embodied in the braking face of said member for drawing air from the interior of said mechanism across the braking faces of said member and element, and said element having air conduits through which air is supplied to the interior of said mechanism.

2,165,979
AIR CONDITIONING APPARATUS
Jacob P. Nicholson, Chicago, Ill.
Application July 3, 1936, Serial No. 88,789
2 Claims. (Cl. 62—139)

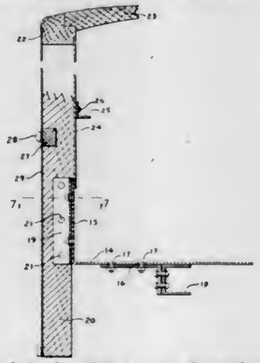
2. Air conditioning apparatus comprising in combination, a plurality of tanks spaced to pro-

vide air passages therebetween, each tank being thin relative to the dimension thereof in the direction of air flow and having its opposite sides snugly covered with an absorbent fabric, a reservoir continuously filled with water located beneath the tanks, a refrigerating device submerged in the reservoir, a casing separate from the reservoir and communicating with the tanks, a pump for delivering water from the reservoir to the casing and thence to the tanks, each tank



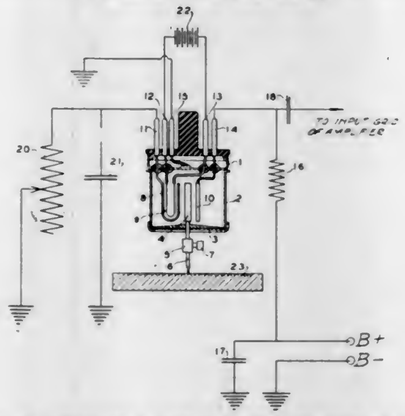
having an opening through which water is fed to the fabric covering to maintain the same in a wet condition, a de-humidifying element exposed to the air flow and connected to the refrigerating device, the refrigerant being successively passed through the device and element, and means for successively passing the air over the wet surfaces of the tanks and the dehumidifying element to respectively reduce the dew point of the incoming air, condense a portion of its moisture and to cool the air.

2,165,980
DELIVERY TRUCK BODY
Eugene R. Pritchard, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application April 15, 1936, Serial No. 74,426
5 Claims. (Cl. 296—28)



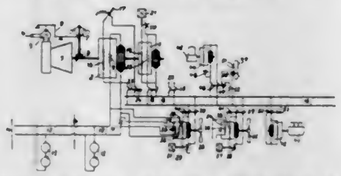
1. In a truck body of the class described, a metal pan having turned up sides, a chassis frame, means securing said pan to the chassis frame, body supporting posts secured to the outside of the pan at spaced points, a body superstructure carried entirely by said posts and comprising an inner sheet metal lining secured to the inside surfaces of said posts and forming in effect extensions of the turned up sides of said metal pan, and an outer sheet metal lining secured to the outer surfaces of said posts, the spaces between said linings leading to the atmosphere at the lower ends of said linings to facilitate escape of products of condensation formed in the spaces between the said linings.

2,165,981
ELECTRONIC PHONOGRAPH PICK-UP
John C. Sampson, St. Louis, Mo., assignor of one-half to Julian E. Sampson
Application August 27, 1936, Serial No. 98,198
2 Claims. (Cl. 250—27.5)



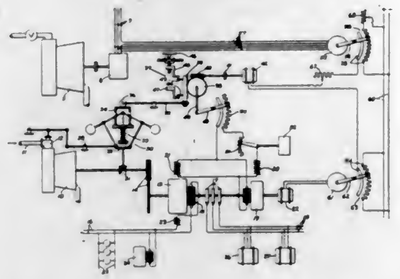
1. A thermionic tube having a vacuum chamber, grid, plate and cathode elements for said chamber, a part of the wall of said chamber being at least slightly flexible, one of said elements being connected to the flexible part of said wall and mechanical means for flexing said wall, and a layer of non-resilient solid material engaging said flexible wall part to damp vibration thereof.

2,165,982
TURBO-ELECTRIC RAILWAY MOTOR CAR
Karl Schmer, Berlin-Mariendorf, Germany, assignor to General Electric Company, a corporation of New York
Application March 17, 1938, Serial No. 196,487
In Germany March 16, 1937
12 Claims. (Cl. 290—2)



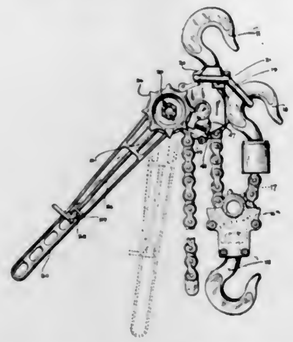
1. A turbo-electric vehicle, comprising a steam turbine, electric motor driving means for said vehicle, a main current generator driven by said turbine, means for connecting said motor driving means to said main current generator, an auxiliary current generator connected to said turbine so as to be driven thereby, an auxiliary device on said vehicle, an auxiliary electric motor for driving said auxiliary device, means electrically connecting said auxiliary electric motors to said auxiliary generator, and means responsive to the voltage of said main generator for controlling the speed of said auxiliary motor.

2,165,983
POWER-PLANT CONTROL APPARATUS
Karl Schmer, Berlin-Mariendorf, Germany, assignor to General Electric Company, a corporation of New York
Application October 20, 1938, Serial No. 236,091
In Germany November 1, 1937
12 Claims. (Cl. 290—4)



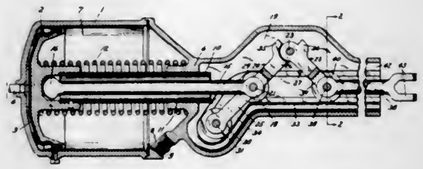
11. In combination, a main turbine, an auxiliary turbine, an adjustable governor driven by said auxiliary turbine for regulating said auxiliary turbine, and means responsive to a differential indication of the load on said main turbine and of the speed of said auxiliary turbine for varying the adjustment of said governor.

2,165,984
PULLER
Charles Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application June 22, 1935, Serial No. 27,883
14 Claims. (Cl. 254—167)



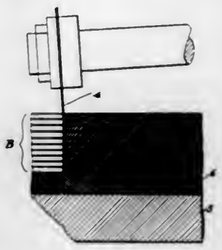
1. In a puller of the class described, a lifting shaft, a friction disc having a sleeve portion keyed to said shaft, a second friction disc on said shaft juxtaposed to said first disc, a load holding ratchet loose on said shaft and juxtaposed to said second friction disc, a reversible ratchet next placed on said shaft and in screw threaded relation thereto, a hand wheel fixed to said reversible ratchet, a lever assembly rotatable relatively to said shaft and reversible ratchet, a reversible pawl carried by said lever assembly and cooperable with said ratchet, a load shaft in geared relation to said lifting shaft, and a pawl on said load shaft cooperable with said load holding ratchet.

2,165,985
PISTON TRAVEL AMPLIFIER
Francis E. Schwentler, St. Louis, Mo., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 22, 1937, Serial No. 144,238
4 Claims. (Cl. 74—516)



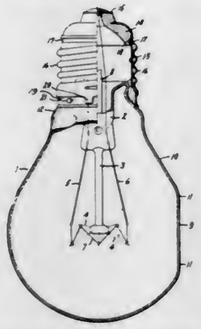
1. In combination, a cylinder, a piston having a piston rod and operatively mounted in said cylinder, a lever, a pin pivotally connecting said lever intermediate the ends thereof to said piston rod, a roller journaled on said pin, another roller rotatably mounted on one end of said lever, and stationary means constituting a guide race for said rollers, said guide race having one portion parallel to said piston rod adapted to receive both rollers when said piston is moved in one direction for guiding said lever into alignment with the axis of the piston rod, and another portion adapted to receive said other roller on movement of the piston in another direction for effecting rotation of said lever about said pin into a position at an angle to the axis of said piston rod.

2,165,986
RUBBER THREAD AND METHOD OF MAKING SAME
Kenneth R. Shaw, Easthampton, Mass., assignor to Easthampton Rubber Thread Co., Easthampton, Mass., a corporation of Massachusetts
Application December 28, 1938, Serial No. 248,026
9 Claims. (Cl. 18—54)



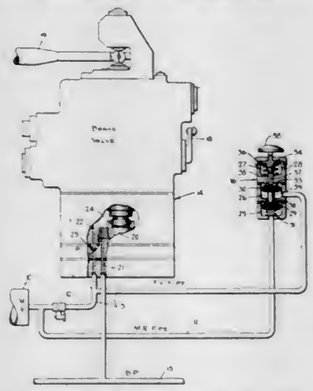
1. That improvement in methods of making composite rubber thread which consists in assembling a series of sheets of rubber in superposed relationship, producing a substantially stronger adhesion between certain of said sheets than between others, cutting simultaneously through said assembly of sheets while relatively feeding the cutting implement and the assembly to produce a ribbon composed of strands cut from said respective sheets, the adhesion of said sheets to each other being so controlled that all of said strands will be held together during the normal handling of said ribbon but the strands cut from weakly united sheets can readily be pulled apart and the ribbon can thus be divided into threads composed of strands which are firmly united to each other.

2,165,987
ELECTRIC LAMP
Walter Sobczak and Georg Thal, Berlin, Germany, assignors to General Electric Company, a corporation of New York
Application June 29, 1938, Serial No. 216,590
In Germany July 15, 1937
3 Claims. (Cl. 176—32)



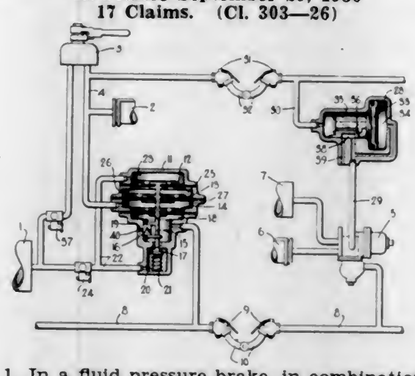
1. In an electric lamp for projecting a relatively small beam of light, a non-transparent bulb provided with a light-emitting window, a light source within said bulb, a base secured to said bulb and including a shell, a threaded sleeve rotatably mounted on said shell and locked against axial displacement relative thereto, and stop means on said sleeve and said shell for limiting rotation therebetween.

2,165,988
FLUID PRESSURE BRAKE
Carlton D. Stewart, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application August 18, 1937, Serial No. 159,678
4 Claims. (Cl. 303—66)



1. In a vehicle brake system, in combination, a main reservoir, a brake pipe, a feed valve device connected to said main reservoir and adapted to supply fluid therefrom at a pressure dependent upon the adjustment thereof, a brake valve device operable in a release position to supply fluid under pressure from said feed valve device to said brake pipe, and separate valve means operable to supply fluid at main reservoir pressure to said brake pipe only when said brake valve device is in release position.

2,165,989
FLUID PRESSURE BRAKE
Jean Guillemin Tarayre, Paris, and Anselme Neveu, Livry-Gargan, France, assignors, by mesne assignments, to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application August 6, 1937, Serial No. 157,692
In France September 29, 1936
17 Claims. (Cl. 303—26)



1. In a fluid pressure brake, in combination, a straight air brake equipment having a straight air pipe, an automatic brake equipment having a brake pipe, and means controlled by the fluid pressures in said pipes and operative upon an increase in fluid pressure in said straight air pipe for effecting a reduction in fluid pressure in the brake pipe.

2,165,990
COLLAR STRAIGHTENING STRIP
Rodolfo Tos, New York, N. Y.
Application September 9, 1938, Serial No. 229,083
2 Claims. (Cl. 2—132)



1. A collar straightening strip, comprising a flat body adapted to be placed against the rear face of the pointed portion of a collar, said flat body being formed with a bayonet slot at each end thereof, said bayonet slots having their enlarged ends directed away from each other, eyelets adapted to be passed through the enlarged ends of said slots and into the small end of said bayonet slots, and pins engageable into said collar and mounted on one end of said eyelets and having their points directed away from each other and superimposed upon the enlarged portion of said bayonet slots permitting a portion of said collar to be urged into the enlarged end of said bayonet slots to facilitate its engagements upon said pins.

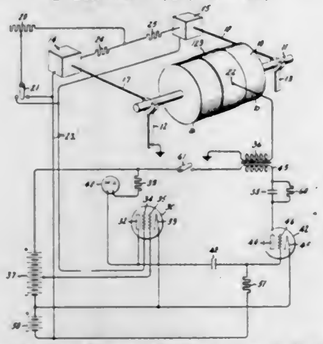
2,165,991
ART OF MAKING HOLLOW-HANDLE FLATWARE
William E. West, North Attleboro, Mass., assignor to R. Blackinton & Co., North Attleboro, Mass., a co-partnership
Application March 22, 1937, Serial No. 132,272
1 Claim. (Cl. 76—106)

The described improvement in the art of making hollow handle flatware consisting of a blade member and a hollow handle, which comprises giving the tang a uniform cross-sectional noncircular shape and size from end to end, forcing an attaching sleeve of initial circular bore onto the tang in a direction longitudinally thereof, assembling the hollow handle on the sleeve with solder intervening between the handle and sleeve and extending into the handle somewhat



beyond the sleeve end and then applying a solder-fusing heat to the open end portion of the handle to bond the attaching sleeve to the handle and to cause the excess solder to flow into the joint between the tang and attaching sleeve.

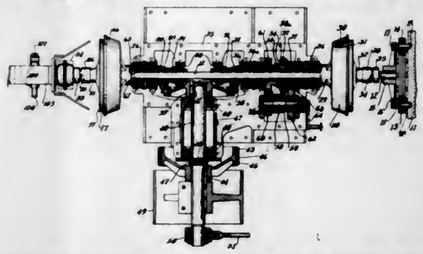
2,165,992
DYNAMIC BALANCING OF ROTATING BODIES
Willem F. Westendorp, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application January 26, 1937, Serial No. 122,397
4 Claims. (Cl. 73—51)



1. Apparatus for analyzing the unbalance of a rotatable body including the combination of means rotatably supporting the body to permit substantial vibration thereof under the action of unbalanced masses in the body, a vibration responsive device operatively associated with the body for generating periodic impulses timed in accordance with its vibrations, and means dependent on the timing of such impulses for producing on or in connection with the surface of the body a permanent visible indication of the angular location of the unbalanced masses.

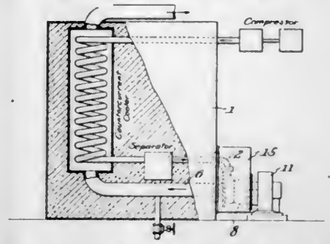
2,165,993
TRANSMISSION GEARING AND BRAKE
William T. Young, Canton, and Thomas L. Fawick, Akron, Ohio
Application November 10, 1936, Serial No. 110,104
6 Claims. (Cl. 192—4)

1. A power plant comprising a source of power, a main drive shaft driven thereby, means for longitudinally moving said drive shaft, a spaced pair of clutch cones fixed upon said drive shaft, a pair of clutch cups loosely carried by said shaft, a bevel pinion fixed to each clutch cup, a driven shaft extending at an angle to said drive shaft, a bevel gear on said driven shaft meshing with



said bevel pinions, a brake upon said driven shaft, means for longitudinally moving said drive shaft to engage either clutch cone with the corresponding clutch cup and for rendering both clutches neutral, and means operated by the rendering of both clutches neutral for applying said brake.

2,165,994
TURBINE FOR LOW TEMPERATURE GAS SEPARATION
Guido Zerkowitz, Trieste, Italy, assignor to Gesellschaft für Linde's Eismaschinen A. G., Hollriegelskreuth, near Munich, Germany
Application March 18, 1936, Serial No. 69,543
In Germany March 24, 1933
11 Claims. (Cl. 62—123)

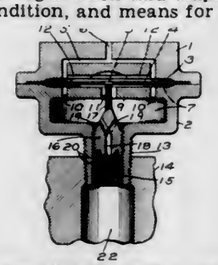


1. In apparatus for the separation of gases by liquefaction at low temperatures, a turbine for expanding compressed gas passing to a countercurrent cooler of the separation apparatus at low temperature with performance of external work and reduction in temperature of the gas comprising an overhung rotor of small diameter adapted for expanding the gases in one stage at high velocity of the rotor and a shaft carrying said rotor, said shaft being hollow substantially throughout its length and mounted in bearings, said bearings being substantially spaced from said rotor and mounted outside the housing of the turbine.

2,165,995
ORIFICE CONTROL DEVICE
John Canetta, Wilkinsburg, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application October 16, 1936, Serial No. 105,973
3 Claims. (Cl. 138—46)

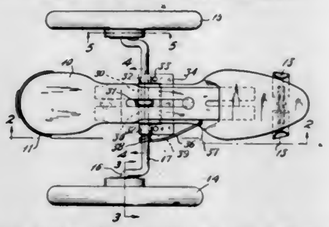
1. A device for controlling the rate of flow of fluid under pressure comprising a flexible diaphragm having at one side a chamber supplied with fluid under pressure and having an aperture through which fluid is adapted to be vented

from said chamber, an element in said chamber of a size to freely enter said aperture and to thereby substantially close communication through said aperture, said element having an end the periphery of which is disposed in substantially the same plane as the chamber side of said diaphragm when said diaphragm is in an unflexed condition, and means for restricting the



rate of supply of fluid under pressure to said chamber, to such a degree with respect to the venting capacity of said aperture, that when said diaphragm is deflected by fluid under pressure supplied to said chamber and thereby opens communication through said aperture, a sudden reduction in the pressure in said chamber will occur through said aperture.

2,165,996
SKATE
George S. Chiles, Chicago, Ill.
Application February 12, 1937, Serial No. 125,414
7 Claims. (Cl. 280—11.11)

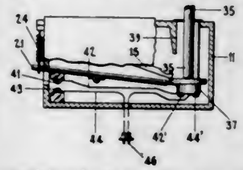


1. In a skate, the combination of a foot-plate, a pair of wheels, an axle, said axle having a crank, means pivotally connecting said foot-plate directly to said crank whereby said axle and wheels are adapted to swing relative to said foot-plate in an arc about said connecting means, and means forming a driving connection between said axle and one of said wheels when the axle is rotated in the same direction that said wheels rotate during forward movement of the skate.

2,165,997
PROCESS OF PREPARING FIRE-EXTINGUISHING FOAM
Karl Daimler and Max Paquin, Frankfort-on-the-Main, and Walter Riedelsberger, Bad Soden in Taunus, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application March 9, 1935, Serial No. 10,324. In Germany July 12, 1933
5 Claims. (Cl. 23—11)

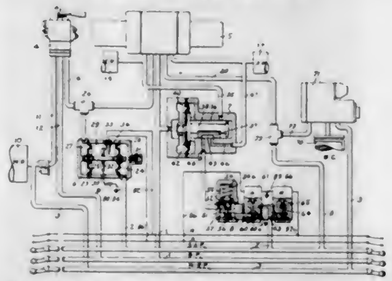
1. The process which comprises preparing fire-extiguishing foam from a gas, a relatively large quantity of water and a relatively small quantity of a composition comprising a highly concentrated aqueous solution of an organic foam forming agent and a hydrophilic organic solvent which facilitates dissolution of such foam forming agent in water.

2,165,998
COMBINED CIGARETTE LIGHTER AND CASE
Salvatore De Silvestro, New York, N. Y.
Application January 15, 1938, Serial No. 185,121
2 Claims. (Cl. 312—86)



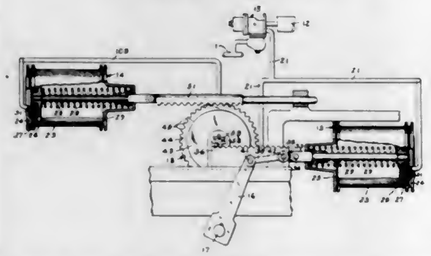
1. In a combined cigarette case and lighter of the character dscribed, a closed lighter compartment having an opening for a cigarette in its top wall, a hinged cover for said compartment, a normally horizontally disposed carrier pivotally mounted in the compartment for supporting a cigarette in horizontal position, an electrical heating element positioned at one end of said carrier, means for swinging said carrier to an upright position to tilt said cigarette and cause it to rest endwise on said heating element and for simultaneously causing incandescence of said heating element, said cover being momentarily opened by said cigarette during the tilting movement thereof, said cover being shorter than said lighter compartment opening to permit said cigarette to assume said upright position on said heating element with said cover in closed horizontal position, said carrier being shorter than said cigarette to cause said cigarette to open said cover during said tilting movement.

2,165,999
FLUID PRESSURE BRAKE
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application April 12, 1938, Serial No. 201,519
7 Claims. (Cl. 303—15)



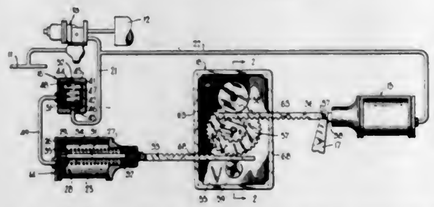
1. In a fluid pressure brake equipment of the combined straight air and automatic type, in combination, brake cylinder means, an auxiliary reservoir, a normally charged brake pipe, a brake controlling valve device operative on a reduction in pressure of fluid in said brake pipe to effect a supply of fluid under pressure to said brake cylinder means for effecting an automatic application of the brakes, a straight air pipe through which fluid under pressure may be supplied to effect supply of fluid under pressure to said brake cylinder means for effecting a straight air application of the brakes, electro-responsive means operable to establish communication from said auxiliary reservoir to said straight air pipe, a cut-off valve controlling said communication, a supplementary reservoir, and a movable abutment subject to the opposing pressures of fluid in said brake pipe and of fluid in said supplementary reservoir and operative promptly in response to a reduction in brake pipe pressure for actuating said valve to close said communication.

2,166,000
FLUID PRESSURE BRAKE
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application April 22, 1938, Serial No. 203,581
11 Claims. (Cl. 303—6)



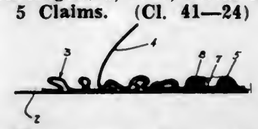
1. A fluid pressure brake equipment comprising a brake operating lever, two brake cylinders, one of said brake cylinders being effective at all times to operate said brake lever, clutch means interposed between the other of said brake cylinders and the said brake lever and normally conditioned to render said other brake cylinder ineffective to operate the brake lever, fluid pressure responsive means for effecting operation of the clutch means to render the said other brake cylinder effective to operate the brake lever, and means controlled according to the pressure in the said one brake cylinder for controlling the operating fluid pressure for the fluid pressure responsive means and also for controlling the supply of fluid under pressure to the said other brake cylinder.

2,166,001
FLUID PRESSURE BRAKE
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 24, 1938, Serial No. 209,646
5 Claims. (Cl. 303—6)



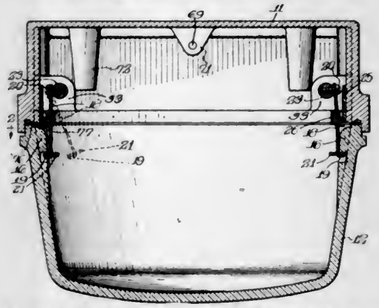
1. A fluid pressure brake equipment comprising a brake operating lever, a gear wheel effective upon rotation to cause movement of the brake lever to apply the brakes, a brake cylinder containing a piston having a stem, and a gear rack moved by said piston stem, said gear rack having teeth thereon normally out of mesh relation with said gear wheel and moved into meshing relation with said gear wheel only after the gear rack is shifted at least a certain d'stance out of its normal position.

2,166,002
ARTIFICIAL TREE BARK
Peter J. Fritsch, Minneapolis, Minn.
Application August 5, 1938, Serial No. 223,252
5 Claims. (Cl. 41—24)



5. An artificial tree bark comprising a substantially flat base member of kraft paper, a suitable filler material, such as old newspapers, glued to one side of said base member and worked into a plurality of closely spaced irregular wrinkles or folds before the glue has set, a sheet of glue soaked cloth overlying the filler material, said glue-soaked cloth being worked into a plurality of irregular folds and wrinkles which simulate the bark of a tree, and a protective coating applied to the outer surface of said cloth to render it substantially moisture-proof.

2,166,003
POLYPHASE METER CASE
Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application February 11, 1937, Serial No. 125,211
13 Claims. (Cl. 171—34)

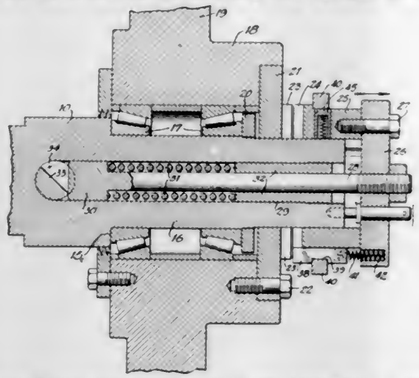


2. A meter case including a base and a cover, lugs on the inside of said cover, and means within said case actively operated for engaging said lugs and drawing said cover tightly against said base with a non-rotative movement of the cover.

2,166,004
CLUTCH FOR DIE PRESS OR THE LIKE
Edward H. Hall, Chicago, Ill.
Application August 4, 1938, Serial No. 223,088
4 Claims. (Cl. 192—24)

1. In a clutch mechanism of the class described, the combination of a shaft provided on its interior with an axial bore, a clutch member slidably but non-rotatably mounted upon the exterior of the shaft and provided with clutch teeth, a plunger rod slidably mounted within the bore in the shaft and connected at its outer end with the clutch member for actuating the same, a member rotatably mounted upon the shaft and provided with clutch teeth adapted to coact with the clutch teeth first mentioned, eccentric means carried by the shaft and engaging the inner end of the plunger rod for actuating the same to engage or disengage the clutch teeth, the associated clutch teeth providing a loose fit affording lost motion, wedges carried by the slidable clutch element and adapted

when moved to fill the spaces between the clutch teeth and effect a locking engagement of the parts, and means for holding the wedges in re-



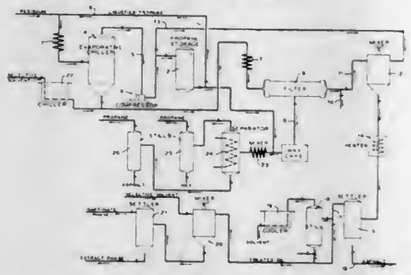
tracted relation to permit limited rocking movements while the clutch teeth are in engaging relation.

2,166,005

SOLVENT REFINING MINERAL OIL

Frank W. Hall, New York, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application April 4, 1936, Serial No. 72,708
2 Claims. (Cl. 196—13)



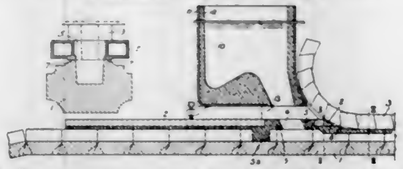
2. In the dewaxing of heavy residual wax-bearing mineral lubricating oil having the essential characteristics of a heavy cylinder stock residuum derived from Manvel crude having a relatively high content of wax and containing asphaltic and resinous constituents including asphaltene constituents which are precipitated in hard granular form from a mixture of about one part of oil and three or four parts of propane at a temperature of around 0° F. and below, the method which comprises mixing the oil containing around 12 to 18% of wax and around 30 to 40% of tarry material with a liquefied normally gaseous hydrocarbon in proportions such that upon chilling to around 0° F. and below wax and a small amount of hard granular asphaltene constituents are precipitated while the bulk of the asphaltic and resinous constituents remain in solution, chilling the mixture to around 0° F. and below, forming a free-filtering precipitate of wax and hard granular asphaltene constituents, said asphaltene constituents comprising around 2% to 5% of the asphaltic matter contained in the charge oil, filtering the cold mixture to remove said precipitate and produce a dewaxed mixture containing the bulk of asphaltic and resinous constituents, adding a further quantity of liquefied hydrocarbon solvent to the dewaxed mixture, maintaining the resulting mixture at an elevated temperature of around 130 to 140° F. sufficient to precipitate resinous and asphaltic constituents retained in the mixture, and removing the precipitated material therefrom.

2,166,006

APPARATUS FOR CASTING METAL

Frank William Harbord and Vernon Harbord, London, England

Application November 9, 1937, Serial No. 173,699
In Great Britain November 23, 1936
5 Claims. (Cl. 22—57.3)



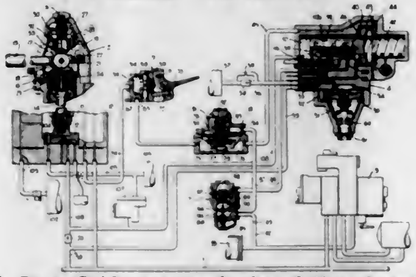
1. In a continuous casting machine, a travelling bottom mould member constituted by a chain of mould segments and provided with an open mould cavity, a stationary top mould member cooperating with the cavity of said bottom mould member to form a runner channel of closed cross-section on part of said bottom mould member and provided with an admission opening for admitting molten metal into said runner channel, a travelling mould member cooperating with the cavity of said bottom mould member to form a closed mould cavity adjoining said runner channel, said bottom mould member containing the full mould cavity, and an inset attached to the stationary top member and projecting within this cavity, for the purpose specified.

2,166,007

SAFETY CONTROL EQUIPMENT

Ellis E. Hewitt, Edgewood, and Donald L. McNeal, Wilkinsburg, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application October 29, 1938, Serial No. 237,692
5 Claims. (Cl. 303—19)



1. In a fluid pressure brake of the class involving a normally charged brake pipe, a brake controlling valve device operative in accordance with a predetermined reduction in brake pipe pressure to effect an application of the brakes to any desired degree and an engineer's brake valve device manually operable to control discharge of fluid from the brake pipe, in combination, an equalizing discharge valve device operative upon a reduction in pressure of fluid in an equalizing reservoir to vent fluid under pressure from the brake pipe, a normally charged safety control pipe, an application valve device operative upon the venting of fluid from said safety control pipe to vent fluid under pressure from said equalizing reservoir at a service rate, and safety control means adapted to vent fluid under pressure of said safety control pipe to initiate operation of the said application valve device unless held in an inoperative position by the operator.

2,166,008

FOAM STABILIZING AGENT

Cameron B. Holter and Ernest L. Stewart, Port Arthur, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application May 27, 1937, Serial No. 145,064
6 Claims. (Cl. 23—11)

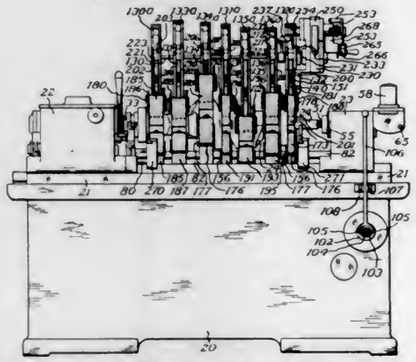
6. A fire extinguishing charge adapted to produce a tenaceous foam comprising as an essential ingredient thereof a stabilizing agent consisting of alkali metal salts of petroleum hydrocarbon-aromatic sulfonic acids produced by sulfonating a mixture of 90–60% by weight of a petroleum distillate lubricating oil, and 10–40% by weight of benzol, and neutralizing the resulting petroleum hydrocarbon-aromatic sulfonic acids with an alkali metal base.

2,166,009

CRANKSHAFT LAPPING MACHINE

Herbert S. Indge, Westboro, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application July 20, 1938, Serial No. 220,283
11 Claims. (Cl. 51—73)



1. In a crankshaft lapping machine having a plurality of lapping arms, a movable frame to support said lapping arms, clamping mechanism for clamping said lapping arms relative to said frame, a rotatable work support including a headstock and footstock, a plurality of fluid pressure motors respectively connected to said footstock, said frame, said lapping arms and said clamping means, a manually operable control valve operatively connected to control the flow of fluid under pressure to and from said footstock motor and said frame motor, and a second control valve on said frame for controlling the flow of fluid under pressure to and from said lapping arm motor and clamping motor.

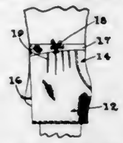
2,166,010

SUSPENSORY GARMENT

Thomas La Maida, University Heights, Ohio

Application November 15, 1937, Serial No. 174,538
3 Claims. (Cl. 128—159)

1. A bifurcated suspensory garment comprising a pair of front crotch members, a pair of rear crotch members, and a pair of abdominal members for encircling the legs and covering the abdomen of the wearer, the pair of front crotch members having inner longitudinal edges which are secured together for a portion of their lengths at the lower portions thereof, the rear crotch members being secured together throughout their inner edges and having constricted intermediate sections and tab portions at their front ends, which tab portions are secured to the lower adjacent edges of the front crotch members, the position and arrangement of the cooperating front crotch members and rear crotch member tab portions providing a suspensory pouch for the



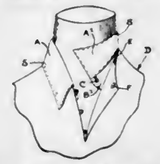
wearer, the abdominal members being provided with lower portions of sufficient length to encircle a leg of the wearer and having the inner edges of such portions secured to the lower part of the outer edges of the respective abdominal members for that purpose, the upper parts of the said last-mentioned outer edges being secured to respectively adjacent outer edge portions of the rear crotch members, and said abdominal members having their inner edges cut diagonally to provide upwardly tapering portions which are secured at their inner edges to the outer edges of the front crotch members and the remaining portions of the outer edges of the rear crotch members, whereby adjustment of the upper edge or waistline of the completed garment will control the supporting effect of the pouch.

2,166,011

DETACHABLE GARMENT COLLAR

Thomas La Maida, University Heights, Ohio

Application January 11, 1938, Serial No. 184,406
6 Claims. (Cl. 2—139)



1. A garment and detachable collar therefor, comprising a garment having a margin adapted to support a collar, anchor means disposed along said garment margin, a collar adapted to be disposed along said margin, and fastening means, secured to said collar, projecting therefrom and formed of flexible material adapted to be readily bent in any direction, whereby said fastening means is adapted to releasably engage said anchor means, for detachably securing said collar to said garment.

2,166,012

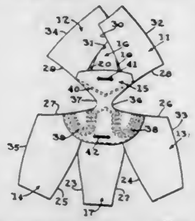
GARMENT

Thomas La Maida, University Heights, Ohio

Application February 3, 1938, Serial No. 188,503
3 Claims. (Cl. 2—224)

1. A form fitting bifurcated garment, comprising central front and rear panels connected by a narrow crotch portion, the longitudinal margins of the front panel being concave in configuration, the longitudinal margins of the rear panel

being convex in configuration, front gores having cooperating margins concave in configuration and secured to said front panel margins, rear gores having cooperating margins convex in configuration and secured to said rear panel margins, the lower marginal portions of the gores cooperating with the narrow crotch portion of the panel forming leg encircling portions, the position and arrangement of the cooperating front



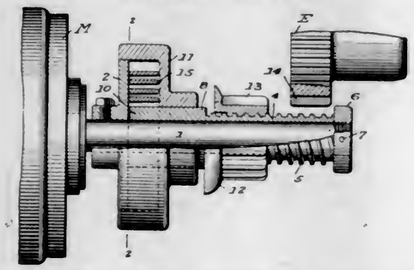
panel and front gores providing for freedom of leg movement of the wearer by providing excess material above the crotch and on each side thereof, the position and arrangement of the cooperating rear panel and rear gores providing a supporting pocket for the buttocks of the wearer and preventing creeping and crawling of the garment in the crotch portion in response to body movements.

2,166,013
SHOVEL
William F. McLindon, Arlington, Va.
Application March 8, 1939, Serial No. 260,639
2 Claims. (Cl. 294—49)



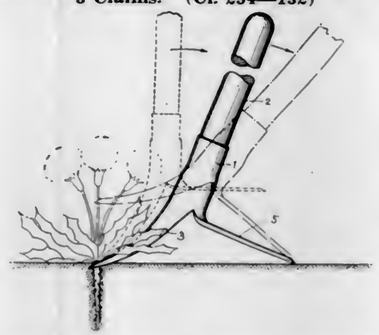
1. A shovel comprising a shovel blade having a concave front face and convex rear face, the upper middle portion of the rear face having a recess formed therein, said recess forming a convex protuberance on the front face, a closure member formed integral with the shovel blade and extending across said recess, means for securing the free edge of said closure member to the back of said shovel blade, a socket extending from said shovel blade and a handle in said socket, said socket opening into said recess.

2,166,014
SELF-STARTER FOR ENGINES
Bennett Hayes McManeus, Sebring, Fla., assignor of one-half to George T. Whitehouse, Sebring, Fla.
Application March 29, 1938, Serial No. 198,766
3 Claims. (Cl. 74—7)



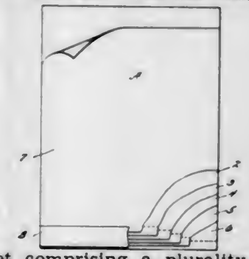
1. An engine starter comprising a prime mover shaft having a driving head thereon, an externally threaded driven shaft sleeved on said prime mover shaft and adapted to screw threadedly engage a starter pinion, a housing carried on one end of said driven shaft adjacent said head, fingers projecting from said head and said driven shaft within said housing and in overlapping relationship.

2,166,015
TWO-IN-ONE WEED PULLER AND HOE
Berent A. Mikkelson, Seattle, Wash.
Application April 6, 1938, Serial No. 200,534
3 Claims. (Cl. 254—132)



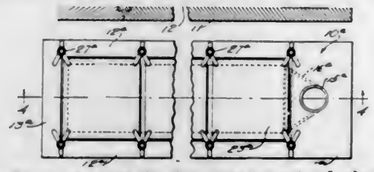
1. In a weed puller, a shank having at one side of the lower end thereof a continuously downwardly and forwardly extending spike having lower bifurcations and at the opposite side of the lower end thereof a rearwardly extending flat blade adapted to be used as a foot rest in pressing said spike into the ground, said blade having a straight sharpened outer edge adapted to take a secure stationary fulcrum bearing on the ground in tilting the device to engage said bifurcations with a weed tap root, bring said fulcrum edge into contact with the ground and to extract the weed, said spike being located as a whole at an angle of approximately forty-five degrees to said shank and said blade being located at right angles to the shank, whereby a minimum degree of tilting of the device following pressing the spike into the ground is required in extracting the weed.

2,166,016
TABLET FOR TYPEWRITING MACHINES
John R. Morrison, Hampton, Va.
Application November 18, 1935, Serial No. 50,439
1 Claim. (Cl. 282—22)



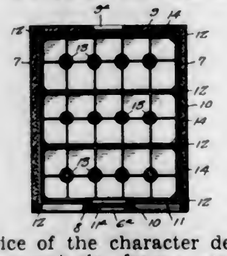
A tablet comprising a plurality of duplicate record sheets of equal length secured together at one end in stepped relation to each other, and being tapered in assembly at the opposite loose end for insertion into a writing machine, a carbon sheet secured at the first mentioned end at the top of the assembled record sheets and terminating short of the loose ends of all of the record sheets, said record sheets each being scored across the same adjacent the secured ends and the same distance from the loose ends, whereby a loose original and top record sheet may be grasped by the fingers and simultaneously removed leaving the carbon sheet and the remaining record sheets in operative position and the record sheets all being of the same length when removed.

2,166,017
DIFFUSER PLATE CONTAINER FOR SLUDGE TREATMENT
George E. Nagel, Columbus, Ohio
Application March 11, 1938, Serial No. 195,406
3 Claims. (Cl. 261—122)



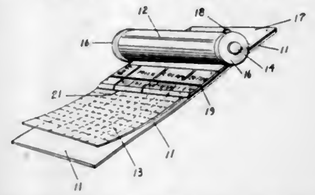
1. In a receptacle for treatment of sludge, a container provided with upstanding side walls, a plurality of pervious plates engaging said container above the bottom thereof, and means for detachably holding said plates in applied position, said means comprising a pressure bar provided with a downwardly off-set arcuate end portion engageable with the upper side of a side wall, a pair of divergent fingers integral with said bar having downwardly off-set arcuate end portions engageable with the adjacent corners of adjacent plates, said pressure bar having an opening therethrough and oppositely inclined upper side portions extending downwardly from the upper end of said opening, a sleeve embedded in a side wall provided with interior threads, an apertured member carried by said sleeve and extending downwardly thereof, an anchoring bar extending through an aperture of said latter member and a threaded bolt engaging through said opening in said pressure bar and the threads of said sleeve whereby to detachably hold said pressure bar in applied position.

2,166,018
CABINET
Alfred I. Palmer, Homestead, Pa.
Application January 4, 1938, Serial No. 183,376
2 Claims. (Cl. 220—22)



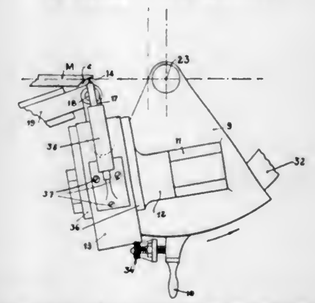
1. A device of the character described, comprising, a receptacle, frames arranged within said receptacle and having side and end walls, said frames fashioned with corner portions disposed at an angle to the side and end walls thereof, said receptacle having spaced, upwardly tapering guide members presenting inclined surfaces for cooperation with said corner portions of said frames whereby said frames are maintained in wedged condition in said receptacle.

2,166,019
RECORDING DEVICE
Frank L. Pankau, Milwaukee, Wis.
Application August 4, 1936, Serial No. 94,225
2 Claims. (Cl. 281—6)



1. A device of the character described comprising in combination a base plate, an attached cover plate, said cover plate constructed shorter than said base plate and formed to provide a cylindrical enclosure equipped with oppositely extending ends, said cover attached to the base plate near its outer edge to permit free and slidable movement of paper between said cover and base plate when a reel of paper is inserted into the cylindrical enclosure of said cover plate.

2,166,020
APPARATUS FOR DRESSING THE GRINDING WHEELS USED FOR GEARING
Maurice Germain Edmond Philippe, Courbevoie, France, assignor to Société dite: La Bougie B. G., Paris, France
Application April 30, 1937, Serial No. 140,071
In France May 13, 1936
4 Claims. (Cl. 125—11)

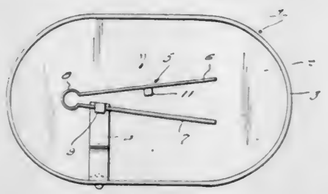


1. Apparatus of precision for dressing grinding wheels used upon gearing teeth, comprising a carriage, an oscillating support mounted on said carriage in such a manner that its axis of oscillation does not coincide with that of the gear to be ground, said support having a slide formed therewith, a member bearing the hard pointed tool adapted for dressing the grinding wheel mounted upon said slide, said tool being capable of sliding in said member, a link and a fixed member connected by said link to said tool and whose position with respect to the axis of oscillation of said support may be adjusted by hand through the intermediary of screws in order to give the hard point microscopic displacements.

2,166,021
ASHTRAY
John Raisler, Beach, N. Dak.
Application May 28, 1938, Serial No. 210,732
1 Claim. (Cl. 131—256)

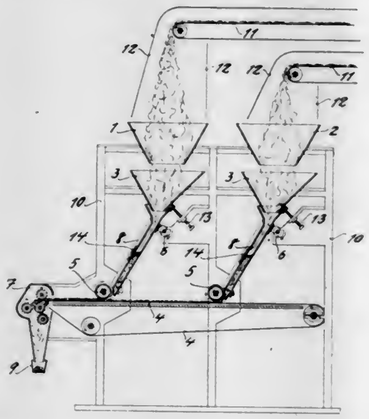
A cigarette extinguisher comprising a substantially V-shaped, resilient member, the legs of said

member constituting a bar of coacting, diverging jaws for the reception of a cigarette therebetween, and a lug struck inwardly from an intermediate portion of one of said jaws for re-



ceiving and supporting the cigarette, the other of said jaws having an opening therein for the reception of the lug when the jaws are closed on the cigarette.

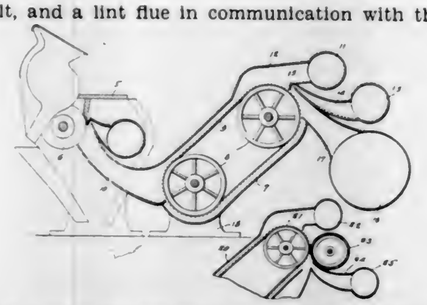
2,166,022
APPARATUS FOR CHARGING CIGARETTE MACHINES WITH TOBACCO
Ludwig Repper, Bremen, Germany
Application June 10, 1936, Serial No. 84,392
In Germany July 2, 1935
4 Claims. (Cl. 131—39)



1. In an apparatus of the kind described, the combination with tobacco feeding means, a rod-channel, and a conveyor leading to said rod-channel, of a chute-like member adapted to receive the tobacco from said tobacco feeding means, said member being disposed with its open lower end directly above said conveyor and being rearwardly inclined relative thereto, and means for imparting a shaking motion to said chute-like member.

2,166,023
REMOTING MACHINE
Richard C. Rose, Roseland, Ark.
Application February 27, 1939, Serial No. 258,822
3 Claims. (Cl. 19—58)

1. A remoting attachment for gins, comprising a body portion, a carding belt operating in the body portion, a spout extending into the body portion, a dust and mote flue at one end of the spout and adapted to receive material from the spout, means for directing a blast of air to the body portion, at a point adjacent to the carding belt, and a lint flue in communication with the



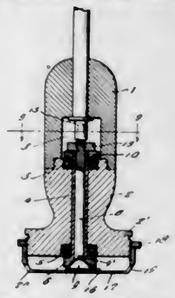
body portion for removing lint from the machine.

2,166,024
TOOL HANDLE FASTENING
Otto Schmidt, Methuen, Mass.
Application January 26, 1938, Serial No. 187,070
1 Claim. (Cl. 306—21)



A tool handle fastening for connecting a horse shoe shaped tool to a handle comprising a head provided with a recess opening through one end and both side edges of the head, the inner wall of the recess being rounded, a block located within the recess for wedging the tool into contact with the walls of the recess, and means to secure the block in the recess.

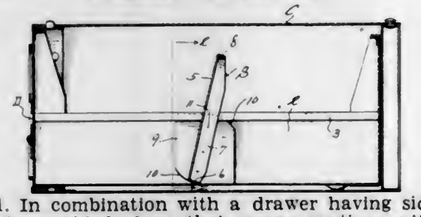
2,166,025
ELECTRIC RAZOR
Frederick K. Schwarz, Boston, Mass.
Application July 23, 1937, Serial No. 155,297
3 Claims. (Cl. 30—43)



1. A razor of the class described comprising a body, a rotary shaft journaled in the body, means

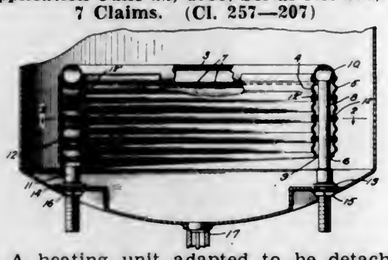
for attaching a normally flat double edge blade to the outer end of the shaft, said means flexing the blade into substantially V-shape in cross section throughout the length of the blade and a cap adjustably connected with the body and having a flat outer face having angle slots therein for producing with the cutting edges of the blade a shearing cut.

2,166,026
FOLLOWER FOR FILING CABINETS
Arthur C. Strayer, Beaver, Pa.
Original application November 12, 1938, Serial No. 240,136. Divided and this application January 26, 1939, Serial No. 253,007
3 Claims. (Cl. 129—31)



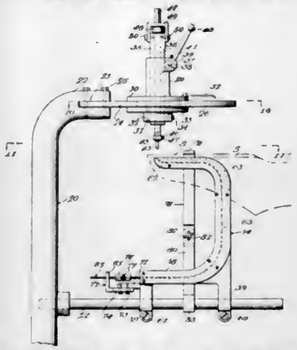
1. In combination with a drawer having side walls provided along their upper portions with downwardly facing trackways, a follower for said drawer comprising a plate to fit transversely within the drawer, side plates secured to the lower portion of the first plate, said side plates each being of a length less than the distance between the bottom of the drawer and the trackways and of a height substantially equal to the height of the side walls of the drawer, diagonally opposed corners of the side plates being rounded, said side plates being free of the trackways when the follower is within the drawer and the first named plate disposed lengthwise of the drawer, the upper marginal portions of the side plates engaging within the trackways when the first named plate is swung upwardly.

2,166,027
JUICE HEATING UNIT
George H. Tay, Philipsburg, Pa., assignor to Lee Metal Products Company, Inc., Philipsburg, Pa.
Application June 22, 1938, Serial No. 215,239
7 Claims. (Cl. 257—207)



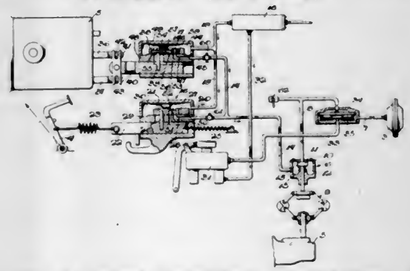
1. A heating unit adapted to be detachably connected to the bottom of a tank and comprising: two coaxial sheet metal cylinders spaced apart radially, a circular tube secured to the top edges of each of said cylinders, a ring secured to the bottom edges of said cylinders, said tube and ring forming with said cylinders a closed annular heating chamber, said tube being provided with apertures communicating with said chamber, means for conducting heating fluid to said tube, and means connected to said ring for draining said chamber.

2,166,028
STITCHING MACHINE
Emerick J. Trepp, Detroit, Mich.
Application March 22, 1938, Serial No. 197,451
13 Claims. (Cl. 112—34)



1. A stitching means comprising a frame, means for supporting a shoe relative to said frame, an awl, guide means engaging said awl and said frame for supporting said awl for movement in a plane at right angles to the face of the shoe on said supporting member, a second guide means carried by said frame engageable with said first guide means for guiding said first guide means for movement in a plane parallel to the surface of the shoe on said supporting member, and a thread lacing means carried by said supporting member for lacing a thread through a hole formed in the shoe by said awl.

2,166,029
VEHICLE CONTROL MECHANISM
Stephen Vorech, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application March 5, 1937, Serial No. 129,255
16 Claims. (Cl. 192—4)

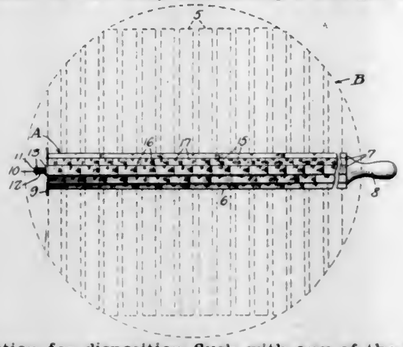


1. In a speed-controlling mechanism for vehicles, the combination of a fluid brake device, means responsive to a predetermined speed of the vehicle for supplying fluid pressure to said brake device, and means including a vehicle clutch-controlling device movable to clutch-disengaged position for supplying fluid pressure to said first named means.

2,166,030
LUMBER RULE
Anton Waeltz, New Athens, Ill.
Application December 28, 1937, Serial No. 182,095
1 Claim. (Cl. 33—107)

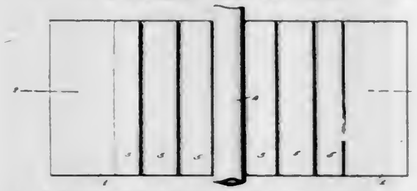
A rule of the character described comprising a polygonal scale body presenting a plurality of

flat faces and formed with a handle at one end, a journaling pin fixed centrally in the other end of said body, a disk journaled on said pin and of a diameter greater than the cross sectional diameter of said body and having a straight edge



portion for disposition flush with any of the flat faces of said body, and a coiled spring carried by said pin and acting against said disk to hold the same in contacting relation to the end next thereto of said body.

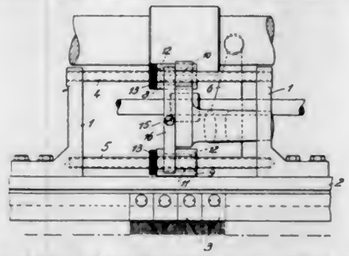
2,166,031
HOSE BRIDGE DEVICE
Evert J. Wendell, Wayne, Pa., assignor to The Hale Fire Pump Co., Inc., Conshohocken, Pa., a corporation of Pennsylvania
Application April 9, 1937, Serial No. 136,021
4 Claims. (Cl. 104—275)



1. A hose bridge comprising two oppositely disposed ramps and a transverse hose-receiving cavity intervening between the adjoining elevated ends of said ramps, each of said ramps consisting of a plurality of wheel-supporting members, each of said members being substantially rectangular in plan and each being disposed with its longitudinal dimension extending transversely of the length of the bridge and from side to side thereof and said members being graduated as to height, said ramps and the individual members of each of said ramps being articulated together.

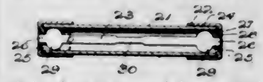
2,166,032
LAYING MACHINE GUIDE FOR WARP KNITTING MACHINES
Emil Herbert Wirth, Hartmannsdorf, near Chemnitz, Germany, assignor to the Firma Emil Wirth Wirkmaschinenfabrik, Hartmannsdorf, near Chemnitz, Germany
Application April 5, 1938, Serial No. 200,233
In Germany October 30, 1937
4 Claims. (Cl. 66—86)

1. A support for a guide for a laying machine for warp knitting machines comprising a frame carrying said guide, closed sleeves slidably mounted upon a portion of said frame, a holder connected to the guide bar holder of said laying machine, sleeves each capable of receiving one of said closed sleeves carried by said holder and each having a longitudinal slot formed through one entire side thereof for receiving said portion



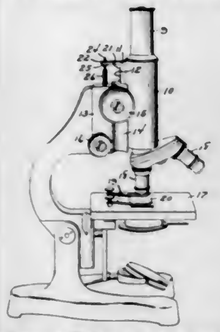
of the frame therethrough and means for retaining said closed sleeves in their respective slotted sleeves.

2,166,033
ELECTRIC FUSE AND METHOD OF ASSEMBLING SAME
Arnold E. Alberga and Henrie C. Alberga, Hempstead, N. Y.
Application December 28, 1936, Serial No. 117,992
10 Claims. (Cl. 200—131)



1. An electric fuse comprising a tube of insulating material forming the fuse casing, a metallic cap secured to and closing each end of said tube, a fuse link within said tube in electrical connection at its ends with said caps, and means carried by said link intermediate the ends thereof for centralizing the same within said tube, said means having a dimension perpendicular to the axis of said tube only slightly smaller than the inside dimension of the latter and a dimension parallel to the axis of said tube relatively small as compared to the length of said link.

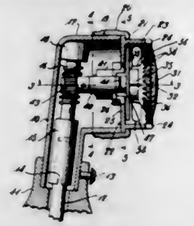
2,166,034
FOCUSING DEVICE FOR MICROSCOPES
Raymond D. Allison, Los Angeles, Calif.
Application May 3, 1937, Serial No. 140,533
7 Claims. (Cl. 88—39)



1. A microscope having a stationary pillar arm, a fine adjustment body mounted for vertical adjustment on the pillar arm, a coarse adjustment body mounted for vertical adjustment on the fine adjustment body, the fine adjustment body being disposed between the coarse adjustment body and the pillar arm, an objective, a stage

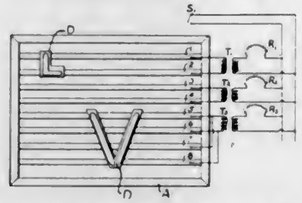
for supporting an object slide, means providing an adjustable control of the free working distance between the microscope objective and the object slide, comprising a bar extending from the coarse adjustment body across the fine adjustment body to the pillar arm, and an adjusting screw between said pillar arm and the bar adapted to stop movement of the bar at a predetermined point in its travel as a unit with the coarse adjustment body.

2,166,035
ELECTRIC SHAVING DEVICE
Louis V. Aronson, Newark, N. J.
Application December 20, 1937, Serial No. 180,874
8 Claims. (Cl. 30—43)



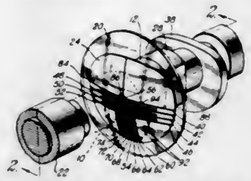
1. A shaving device comprising, in combination: a cutter head; a drive shaft projecting thereinto; a worm gear carried by said shaft; a countershaft mounted in said head; a pinion on said countershaft having teeth parallel with its axis and in mesh with the thread of said worm gear, whereby the axis of the countershaft is at an angle other than 90° to the axis of said drive shaft; a circular shear plate mounted on said cutter head formed with radially projecting peripheral teeth; a circular cutter plate formed with peripheral teeth underlying said first named teeth; and means to drive said cutter plate about its axis by revolution of said countershaft.

2,166,036
SIGNBOARD WITH REMOVABLE LETTERS
Louis Bertoye, Paris, France, assignor to Societe Fonciere Industrielle et Commerciale, Paris, France
Application March 17, 1937, Serial No. 131,507
In France March 19, 1936
4 Claims. (Cl. 40—130)



1. A device relating to signboards with removable luminous letters comprising removable illuminating means formed as letters, supports serving as conductors of electrical current composed of pairs of magnetized current conducting bars suitably connected with an electrical current source and positioned on a vertical plane and magnetically attracted means for connecting said illuminating means to said magnetic support by magnetic adherence and serving at the same time as current conductors from said supports to said illuminating means.

2,166,037
BIFOCAL HEIGHT AND DECENTRATION DEVICE
Vincent Campos, III, Chicago, Ill.
Application January 20, 1938, Serial No. 185,965
4 Claims. (Cl. 51—217)



3. In a lens edging machine, including a lens edging chuck, a resilient pad adapted to be secured to said chuck to have pressure relation with a bifocal lens to be edged, said pad being provided with means on the face thereof engaging the lens for indicating the position of the optical center of the reading segment of the lens relative to the pad center, and said pad being yieldable to conform to the face of the lens engaged thereby.

2,166,038
MANUFACTURE OF BOARD STRENGTHENED COVERINGS
Henri Chambon, Paris, France, assignor to Societe Anonyme des Anciens Etablissements L. Chambon, Paris, France
Application July 15, 1936, Serial No. 90,782
In France July 29, 1935
12 Claims. (Cl. 154—2)



1. A machine for manufacturing cardboard covers from strips of cardboard and paper comprising means for applying the cardboard upon a paper strip, means for cutting the cardboard into separated elements, said last named means being disposed before the means for applying along the path followed by the cardboard at a distance less than the length of said cut-off elements in such manner that said cardboard element is applied at one of its ends upon the strip of paper while the other end is still connected to the strip of cardboard, means for applying adhesive to the strip of paper located in advance of the means for applying, and means for cutting said strip of paper covering said cardboard elements to predetermined lengths of sheets.

2,166,039
MAGNESIUM ALLOYS
Fritz Christen, Zurich-Altstetten, Switzerland
No Drawing. Application December 2, 1938, Serial No. 243,657. In Switzerland September 16, 1938
1 Claim. (Cl. 75—168)

As an article of new manufacture for use in the production of magnesium alloys, a pre-alloy of the following composition:

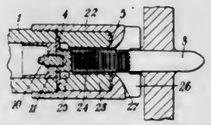
		Per cent
(1)	Aluminium	43.5–41
(2)	Zinc	26 –30
(3)	Manganese	1.5– 3
(4)	Nickel	3 – 6
(5)	Steel (Siemens-Martin)	5 – 2
(6)	Magnesium	21 –18

2,166,040
STOKER
Verdrie F. Clark, New Albany, Ind., assignor to Peerless Manufacturing Corporation, Louisville, Ky.
Application June 18, 1938, Serial No. 214,552
1 Claim. (Cl. 198—64)



In a stoker, a hopper, a flange at the lower end of the hopper, a V-shaped bottom member, a pair of end walls secured to said member, flanges carried by the upper ends of said end walls, means detachably securing the hopper flange to said end wall flanges, an arcuate seat at the convergent lower end of said bottom member, a tubular conveyor housing resting on said seat and projecting from one end wall through and beyond the other end wall, a conveyor in said housing, said housing having an intake opening in the upper side thereof, said opening terminating beyond said other end wall, a clean-out housing about said conveyor housing and that portion of said intake opening projecting beyond said other end wall, a closure for said clean-out housing, said clean-out housing having an upstanding flange confronting said other end wall, a downwardly facing shoulder carried by said upstanding flange, a closure holding bar engaging at one end against said shoulder, and means engaging the opposite end of said bar and said clean-out housing for securing said closure on said clean-out housing.

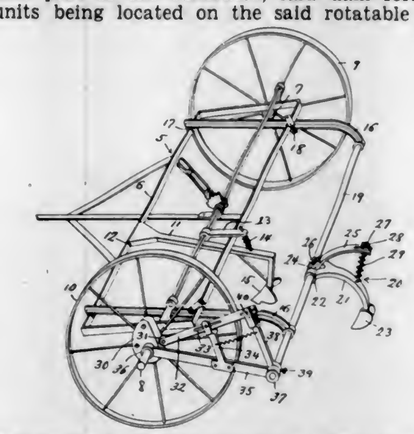
2,166,041
EXPLOSIVELY ACTUATED UNDER WATER RIVETING AND PUNCHING OR LIKE APPARATUS
Percy Cox, Kent, England
Application May 21, 1937, Serial No. 144,106
In Great Britain April 1, 1936
3 Claims. (Cl. 78—48)



1. Apparatus of the kind referred to comprising a projection barrel adapted to the discharge of a projectile having a separable driving part and a driven part, means in the barrel for excluding water therefrom and for arresting the moving separable portion of the projectile, and a member extending beyond the arresting means and having lateral ports the inner sides of which terminate substantially at the said water excluding means.

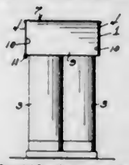
2,166,042
FURROW BASIN FORMING ATTACHMENT FOR CULTIVATORS
John M. Dalimata, Chester, Mont.
Application March 9, 1938, Serial No. 194,936
3 Claims. (Cl. 97—55)

1. An attachment for cultivators of the lister type comprising a cultivator attachable frame structure, a furrow damming shovel unit rockably supported on the frame, and means whereby the said shovel unit is rocked at predetermined intervals, said frame including a rotatable bar, a driving connection between the bar and a movable part of the cultivator, said dam forming units being located on the said rotatable bar,



each of the said units comprising a shovel having an arm swingably connected to the bar, a pressure bar rigidly connected to the rotatable bar, and spring means interposed between the pressure bar and the arm.

2,166,043
HOOD OR CABINET FOR BOTTLED GAS SYSTEMS
Howard E. Double, Bradford, Pa.
Application May 31, 1938, Serial No. 211,099
3 Claims. (Cl. 312—112)



1. A cabinet for bottled gas systems comprising a plate having a relatively flat surface mountable on a wall of a building and formed with openings for receiving gas regulating equipment mounted thereon, a cover hinged on said plate to overlie and enclose the gas regulating equipment and upper portions of gas containers connected with said equipment, means for locking the cover to the plate and a prop hinged substantially centrally of said cover and having a forked end to engage with the equipment for supporting the cover in a raised position to expose the equipment and its connections with the gas containers, and a guard plate secured on the inner face of the cover to extend partly between the gas containers and cooperate therewith in preventing unauthorized tampering with the equipment when the cover is in a closed position.

2,166,044
GRIP FOR HANDLES
Harold Lewthwaite Fletcher, Hazeldene, Forest Row, England
Application September 9, 1937, Serial No. 163,146
In Great Britain March 16, 1937
8 Claims. (Cl. 273—75)

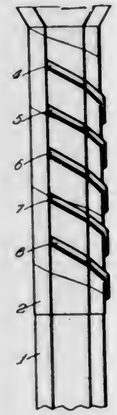
1. The combination with a handle of a continuous strip wound helically around the handle

continuously in the same direction and formed to provide solely as a result of such continuous winding in the same direction, at least one projecting rib which throughout its entire length



is of a right-handed helical form and at least one successive projecting rib which throughout its entire length is of left-handed helical form, the ribs forming grooves of sufficient depth and width to accommodate the fingers.

2,166,045
GRIP FOR HANDLES
Harold Lewthwaite Fletcher, London, England
Application March 12, 1938, Serial No. 195,613
In Great Britain March 16, 1937
7 Claims. (Cl. 273—75)



1. A grip for a handle, comprising a strip of flexible material wrapped around said handle so that two of its edges adjoin one another, said strip having a series of at least two ridges inclined to said edges and with intervening uninterrupted spaces, said inclination of the ridges being such that, on said strip being wrapped around said handle, helical projections are formed by said ridges, each of said spaces being of sufficent width to accommodate one of the fingers of the hand.

2,166,046
STEREOSCOPIC OBSERVATION INSTRUMENT, SUCH AS STEREOSCOPIC RANGE-FINDERS
James Weir French, Anniesland, Glasgow, Scotland, assignor to Barr and Stroud, Limited, Glasgow, Scotland
Application July 3, 1937, Serial No. 151,937
In Great Britain July 9, 1936
2 Claims. (Cl. 88—2.6)

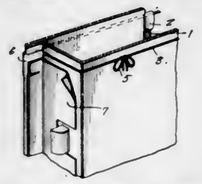


1. A stereoscopic observation instrument with a double telescope system, the telescope systems comprising image-forming lens arrangements having in the vertical direction magnification which is reduced as compared with the magnification in the horizontal direction and including lenses and reflecting prisms which, as permitted by the reduction in vertical magnification, are reduced in height as compared with corresponding optical elements where horizontal and vertical magnification are equal, the entrance and emergence faces of the prisms being broader than high and upper and lower segments of lenses being absent.

2,166,047
PRODUCTION OF BUTANOL AND ACETONE BY THE FERMENTATION OF WHEY
Alfred Frey, Freising, Bavaria, and Hans Glück and Hermann Oehme, Cologne-Kalk, Germany
No Drawing. Application February 26, 1938, Serial No. 192,890. In Germany March 8, 1937
8 Claims. (Cl. 195—44)

8. Processes for the production of butanol and acetone by fermentation which includes the step of slowly heating whey to a temperature between 80°–90° C. and at the same time stirring the whey by passing non-oxidizing gases therethrough, the heating being continued until the content of soluble albumen material amounts to less than 0.8% N, and albumen material is precipitated in finely divided form, and thereafter adding butanol forming bacteria to the whey containing the precipitated albumen material and permitting the whey to ferment.

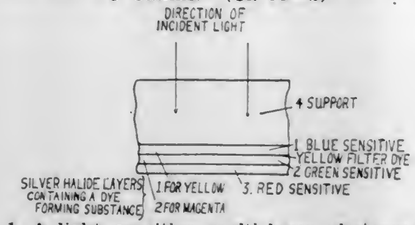
2,166,048
ADVERTISING SIGN FOR VEHICLES
Anthony P. Fritsch, Pittsburgh, Pa.
Application October 26, 1938, Serial No. 237,099
3 Claims. (Cl. 40—129)



1. A sign for attachment to a motor vehicle and comprising a sheet of water repellent flexible material having advertising matter thereon, hems along certain edges of said sheet, strands of flexible material threaded through said hems for slidable movement, elastic means having one of the ends of said strands connected thereto, said strands being adapted for disposal about

portions of said vehicle and to have their opposite ends connected together, and adhesive means secured to the remaining edges of said sheet to be adhesively secured to the vehicle for cooperation with the strands for detachably securing the sheet to the vehicle.

2,166,049
METHOD OF AND MATERIAL FOR PRODUCING MULTICOLOR IMAGES
Béla Gáspár, Brussels-Forest, Belgium
Application November 30, 1937, Serial No. 177,344
8 Claims. (Cl. 95—2)



1. A light sensitive multi-layer photographic material adapted to be exposed through a transparent support and having three light sensitive silver halide emulsion layers applied in superposition on the same side of the support, only two of the three layers comprising a dyestuff forming substance for the formation of azo-dyes, the light sensitive layer next to the support being predominantly sensitive to blue light, the layer between the blue sensitive layer and the third layer being predominantly sensitive to green light and the layer on the surface of the assembled multi-layer material being predominantly sensitive to red light, a dyestuff forming substance in the blue sensitive layer capable of forming a yellow azo-dyestuff, a dyestuff forming substance in the green sensitive layer capable of forming a magenta azo-dyestuff, and means for preventing exposure of said red and green sensitive layers by blue light through said support.

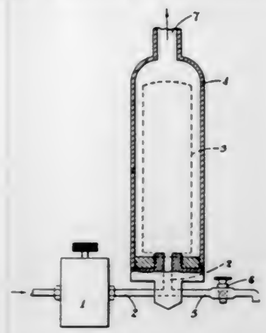
2,166,050
ARTIFICIAL MINNOW
Paul Emile Gasque, Vincennes, France
Application February 23, 1938, Serial No. 192,101
In France February 23, 1937
6 Claims. (Cl. 43—47)



1. In an artificial lure for fishing purposes, a propeller which is rotatable by the movement of water, having an S-shaped section upon the whole length of a helical generatrix, which section diminishes gradually in extent and curvature from the front to the rear of the apparatus.

2,166,051
MANUFACTURE AND PRODUCTION OF ARTIFICIAL FILAMENTS, THREADS, BANDS, AND THE LIKE
John Harrison Givens, Coventry, England, assignor to Courtaulds, Limited, London, England, a British Company
Application February 8, 1938, Serial No. 189,458
In Great Britain February 23, 1937
2 Claims. (Cl. 18—54)

1. In the manufacture and production of artificial threads wherein a solution is passed by means of a pump through a filter, such as a candle filter, and then through a nozzle the method of avoiding the production of unsatisfactory thread when spinning is recommenced after removal and replacement of the nozzle, which comprises, the step of releasing the pressure in the system on the inlet side of the filter immediately or shortly before removing the nozzle.

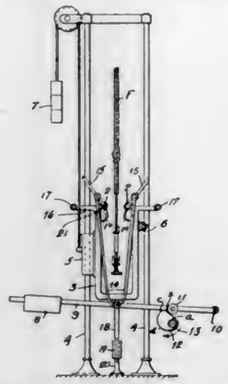


2,166,052
FASTENER ATTACHING PLATE FOR UPHOLSTERY INSTALLATIONS
Charles L. Hall, Detroit, Mich., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Original application April 24, 1933, Serial No. 667,588. Divided and this application March 9, 1938, Serial No. 194,938
5 Claims. (Cl. 85—49)

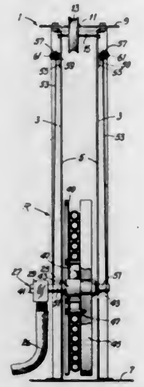
1. A fastener attaching plate for attachment to a dense cardboard panel of an upholstery installation of the character described, said plate comprising a sheet metal body portion having flanged ends providing relatively stiff attaching prongs, said prongs being flat throughout substantially the length thereof, with the tip ends only slightly outwardly bent prior to application to the panel, whereby the prongs may be forced through the cardboard panel without deflection thereby but the outwardly bent tip ends being capable of deflecton by a flat rigid surface contacting the opposite face of the panel to produce outwardly hooked reentrant anchoring means embedded wholly in the panel.

2,166,053
DEVICE FOR THE DRAWING UPON FORMS, OF ARTICLES TO BE FINISHED, SUCH AS STOCKINGS AND OTHER HOSIERY GOODS
Léon Pierre Héliot, Sainte-Savine, France
Application November 14, 1936, Serial No. 110,903
In France November 15, 1935
5 Claims. (Cl. 223—112)

1. A device for the drawing upon forms of articles to be finished, such as stockings or other hosiery goods, comprising a vertically movable frame, means giving said frame a vertical reciprocation, a pair of arms pivotally mounted on said frame with one arm on each side of said form, means giving said arms a desired pivotal movement, a pair of jaws pivotally mounted on said frame and each pivotally actuated by one of said arms for pressing against said article upon the form and a pair of lateral arms each mounted on said frame in such a manner as to limit the movement of one of said first mentioned arms for regulating the pressure of said jaws against said article.



2,166,054
LINE-RETRIEVING APPARATUS
Foster Holmes, Normandy, and Victor G. Klein, St. Louis, Mo., assignors to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application November 25, 1938, Serial No. 242,236
3 Claims. (Cl. 242—86)



1. A hose line retriever comprising a frame, a rotary and movable winding reel for spirally receiving a line, successive loops of the line in the spiral lying substantially in a single plane, means for raising the winding reel against gravity as the line is withdrawn from the winding element, said raising means being adapted to let the winding reel descend under gravi y when the line is released and to cause said winding reel to rotate as it descends spirally to rewind said flexible line in said plane, whereby the leverage of the line effective to rotate the reel decreases continuously during unwinding.

2,166,055
RESISTANCE WIRE OR THE LIKE
Carl Albert Henry Jahn, London, England, assignor to Johnson Matthey & Company Limited, Hatton Garden, London County, England
No Drawing. Application February 11, 1939, Serial No. 255,997. In Great Britain March 5, 1938
3 Claims. (Cl. 201—76)

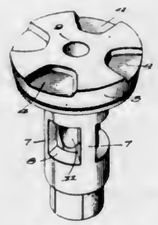
1. Electrical resistance wire composed of from 60 to 80 per cent of platinum, from 10 to 30 per cent of palladium and from 2 to 15 per cent of one of the hardening metals rhodium and ruthenium.

2,166,056
APPARATUS FOR COOLING RAILS
John Johnston, Short Hills, N. J., assignor to United States Steel Corporation, New York, N. Y., a corporation of New Jersey
Original application August 21, 1930, Serial No. 476,868. Divided and this application February 10, 1937, Serial No. 125,144
10 Claims. (Cl. 80—42)



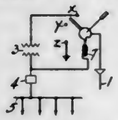
1. In combination, a hot bed and a rail protective cover, the top and bottom portions of said cover having a length approximating the width of said hot bed and a width adapting the cover to enclose a plurality of rails from the atmosphere but only a portion of the hot bed intermediate the front and rear ends thereof, the said top and bottom of said cover being provided with means to regulate the flow of air upwardly through the cover and past the rails enclosed thereby.

2,166,057
KNOCK-OUT
William Herbert Keller, Norristown, Pa., assignor to The Keller-Whildin Pottery Company, North Wales, Pa., a corporation
Application October 16, 1936, Serial No. 106,053
5 Claims. (Cl. 25—28)



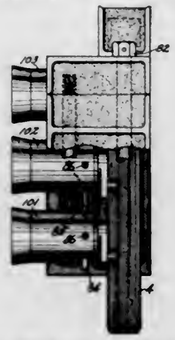
1. A knock-out for plastic forms including a rotatable die having a cylindrical shank, an orifice therethrough with a lateral outlet terminating at the surface of the shank, and a hub in which the cylindrical shank is fitted and turns, said hub having one window at least in its side, one edge of which has a shearing effect upon material forced through the shank as it issues from the outlet.

2,166,058
SEQUENCE OPERATION CONTROL AND INTERLOCK SYSTEM
Ralph L. Kirk, Bellevue, Pa., assignor to Railway and Industrial Engineering Company, South Greensburg, Pa., a corporation of Delaware, as trustee
Application October 6, 1933, Serial No. 692,456
21 Claims. (Cl. 171—97)



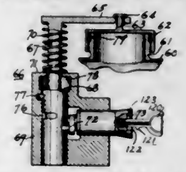
21. The combination with a switch associated with a network transformer and serving to connect the transformer to a power line when closed, and means for moving the switch to closed position, to open position and to grounding position; of means for controlling the movement of the switch comprising a guide segment having one slot at one level from closed position to open position, a biased guide finger extending into the slot to limit the movement of the switch between the limits of said slot, means at the closed position of the switch for permitting the biased finger to be moved from the slot at the first level to a second level at which it may have free unobstructed movement in a path between closed position and grounding position, a supporting surface for maintaining the guide finger at the second level against its biasing force while the switch is at ground position, said surface terminating a short distance from ground position towards open position, whereby, upon movement of the switch from ground position toward open position, the biased guide finger will drop from the upper level to a position at which the switch is prevented from moving back directly to ground position and from which the finger and the switch can be moved only to or towards open position again.

2,166,059
LOCK FOR INTERLOCK SYSTEMS
Ralph L. Kirk, Bellevue, Pa., assignor to Railway and Industrial Engineering Company, South Greensburg, Pa., a corporation of Delaware, as trustee
Application October 6, 1933, Serial No. 692,457
16 Claims. (Cl. 70—337)



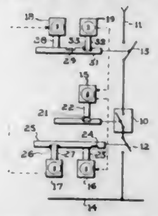
1. A lock structure comprising a plurality of sectional housing elements superimposed to constitute a closed box structure, cylinder lock means supported on and between the housing elements to be accessible for operation, a bolt slidably supported by and between a wall of each end housing element, each wall serving as a bearing for the bolt and the bolt being provided with a transverse slot for each cylinder lock, and a cam arm associated with and controlled by each cylinder lock and having an element for controlling the bolt, said element of the cam arm being disposed in the associated slot.

2,166,060
LOCK
Ralph Levering Kirk, Pittsburgh, Pa., assignor to Railway and Industrial Engineering Company, South Greensburg, Pa., a corporation of Delaware, as trustee
Application March 17, 1934, Serial No. 716,213
3 Claims. (Cl. 70—170)



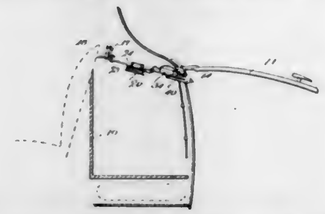
1. In an automotive vehicle, the combination with a gasoline tank and a closure cap therefor, of a lock for the cap, a key for the lock, means associated with the lock and the cap for permitting removal of the cap only when the lock is unlocked, and means associated with the lock for preventing operation of the lock while the cap is removed from closure position on the tank, and means for retaining the key in the lock until the cap is moved to closing position on the tank, and releasing the key only when the cap is locked in closing position on the tank.

2,166,061
INTERLOCK SYSTEM
Ralph L. Kirk, Bellevue, Pa., assignor to Railway and Industrial Engineering Company, South Greensburg, Pa., a corporation of Delaware, as trustee
Application August 2, 1937, Serial No. 156,889
4 Claims. (Cl. 70—265)



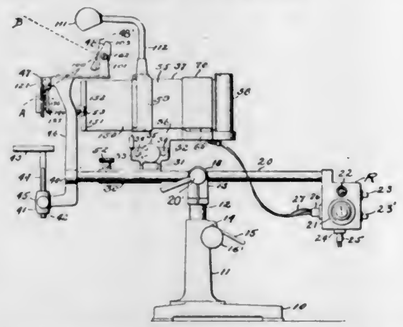
1. A lock system comprising a plurality of key actuated lock units operable in sequence, one of said locks being a master lock having means for retaining a key against release except when said master lock is in a predetermined position of operation, the other lock units each comprising a lock member operable by a key released by the operation of the next prior lock in the sequence, a captive key and means for retaining said captive key against release except upon operation of its associated lock member for operating the lock member of a succeeding unit, said master lock being also operable by the key released by the lock preceding the master lock in the sequence and by the key released by another and preselected lock unit of the system, whereby the predetermined complete or, alternatively, an incomplete predetermined sequential operation of all other locks must precede the operation of the master lock.

2,166,062
TROUBLE AND TRUNK LIGHT
John Koch, Jr., Cheviot, Ohio
Application July 19, 1938, Serial No. 220,085
3 Claims. (Cl. 240—8.18)



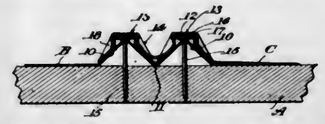
1. A combined trouble and trunk light for automobiles comprising a supporting bracket adapted to be mounted within a vehicle baggage compartment, a lamp housing carried by the bracket, a spring pressed circuit closer carried by the bracket adjacent the lamp housing and having a portion adapted to be engaged by the lid of the baggage compartment of the vehicle to move the circuit closer to open circuit position when the lid is closed, flanges on the lamp housing, and circuit wires wound upon the lamp housing between the flanges and connected to said circuit closer.

2,166,063
PHOROMETRIC STEREOSCOPE
Emanuel Krimsky, Brooklyn, N. Y.
Application May 27, 1937, Serial No. 145,125
8 Claims. (Cl. 88—20)



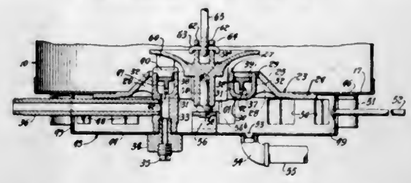
2. A stereoscope comprising a standard, a guide member secured to the upper end of said standard, a carriage slidably supported on said member to be movable between the ends thereof, a pair of view boxes mounted on said carriage, means for moving said boxes towards or away from each other transversely of said member, a bracket rigidly secured to said guide member adjacent one end thereof in front of said view boxes, said bracket being extended vertically to a point in alignment with said boxes, a pair of viewing lenses adjustably secured to the upper end of said bracket, the upper end of said bracket being provided with a rearwardly extending supporting member, an adjustable mirror secured to said supporting member and being positioned above and to the rear of said lenses, whereby the image of the eyes of a patient in position before said lenses may be observed in said mirror by an observer located in rear of the patient.

2,166,064
LAP JOINT
Waldemar Kroier, Jacksonville, Fla.
Application September 30, 1937, Serial No. 166,664
2 Claims. (Cl. 108—18)



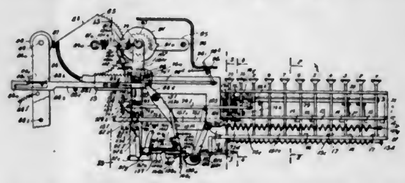
1. A lap joint for sheathing comprising sheet-like sections superposed relative to each other at edges adjacent to one another for effecting an overlap therebetween, a crown struck outwardly from the outermost section at the overlap, a ridge struck outwardly from the innermost section at the overlap, a fastener passed through the ridge, and inwardly distorted portions at intervals in the outermost section at the overlap and at the point of said fastener for the locking of the crown and ridge together at the overlap, the fastening of these to a support and also entirely concealing the said fastener.

2,166,065
OIL BURNER
Adolph R. Hoeft, Evanston, Ill.
Application March 14, 1936, Serial No. 68,811
10 Claims. (Cl. 158—91)



1. In an oil burner, an annular oil trough having inner and outer walls, a vaporizing ring in said trough rotatable with respect thereto and coacting with said walls in forming inner and outer annular vapor passages, and means on said ring engaging the top edges of said walls for pendently supporting said ring in said trough and operable to scrape carbon from said top edges when relative rotation is caused between said ring and said trough.

2,166,066
CALCULATING MACHINE
Francis A. Hosack, Rye, N. Y.
Application May 21, 1936, Serial No. 80,964
9 Claims. (Cl. 235—60)



1. In a calculating machine the combination of accumulating pinions; reciprocable actuator bars for operating said portions; a frame supporting said pinions; means for moving said frame to operatively associate said pinions with said actuator bars; latches for said frame normally acting to maintain said pinions out of operative relation

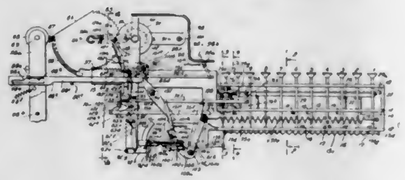
to said bars during movement of the latter in one direction; a calculating function control member; means controlled by said member for releasing said latches to enable operative association of said pinions and actuator bars during said movement of the latter; means for moving said frame to discontinue the operative relation between said pinions and said bars at the end of said movement of the latter, said means being normally ineffective to move said frame; and means responsive to said control member for rendering said frame moving means effective to cause discontinuance of the operative relation between said pinions and said actuator bars at the end of said movement thereof.

2,166,067

TRANSFER MECHANISM

Francis A. Hosack, Rye, N. Y.

Application May 22, 1936, Serial No. 81,198
10 Claims. (Cl. 235—133)



1. In a calculating machine, a calculating pinion; a movable actuator bar operatively associated with said pinion to drive the latter; means for urging the bar rearwardly; a series of depressible keys cooperating with said bar to limit rearward movement of said bar to one increment more than the number of increments corresponding to the value of a depressed key; a bar lock for locking said bar in normal position against movement; means actuated by the depression of any of said keys for releasing said lock to permit said bar to move rearwardly; a shaft; a restoring lever carried by said shaft and movable therewith for engaging said bar to move the latter forwardly; a stop on said bar; a transfer lock for engaging said stop to limit the movement of said bar forwardly to a number of increments corresponding to the value of a depressed key; a calculating pinion of lower denomination; means associated with the latter calculating pinion for releasing said transfer lock to permit said restoring lever to move said actuator bar one increment more than the incremental value of a depressed key while said actuator bar is in operative relation to said first calculating pinion; and means connecting said restoring lever and said shaft for resiliently opposed relative movement therebetween whereby said restoring lever can move relatively to said shaft to move said actuator bar one increment more than the incremental value of said key for effecting a transfer operation.

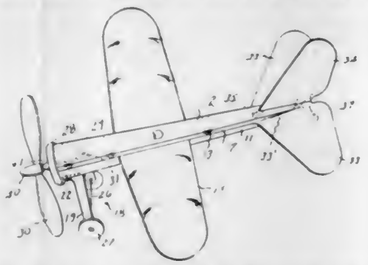
2,166,068

TOY AIRPLANE

John L. Hunt, Detroit, Mich.

Application December 1, 1938, Serial No. 243,417
12 Claims. (Cl. 46—78)

1. A metallic toy airplane comprised of a fuselage, propeller, nose piece, front wing, tail planes, vertical stabilizer, landing gear, and elastic motor, the vertical stabilizer being provided with an arcuate extension at the base thereof to hold the said stabilizer in place, to act as a tail skid, and



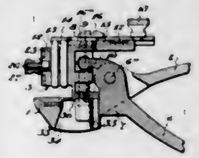
further, to provide means for securing the elastic motor.

2,166,069

HAND PRICE MARKING APPLIANCE

Frederick Kohnle, Dayton, Ohio, assignor to The Monarch Marking System Company, Dayton, Ohio, a corporation of Ohio

Application November 24, 1936, Serial No. 112,519
3 Claims. (Cl. 101—318)



3. A hand tool for marking tickets, comprising a stock providing a platen for supporting the work to be marked, a type holder reciprocably mounted on said stock for movement toward and from the platen, and cooperating therewith to provide a definite depth of throat space to gauge the degree of work insertion, type bars extending through the holder perpendicular to the platen for pressing the type face upon the work supported upon the platen and replaceably mounted within the holder, a slide on said holder for confining the type bars within the holder, a length of inking ribbon mounted on the holder and extending across the face of the type adapting the type to make a transfer of ink from the ribbon onto the work when compressed thereon, cutters disposed in opposition on said stock and type holder between the type and the inner end of the throat space, whereby a ticket inserted in said space may have a portion of its foremost end cut away and a succeeding portion marked, and a handle pivotally mounted on said rigid handle and connecting with said type holder for actuating the same.

2,166,070

EGG WHITE PRODUCT AND PROCESS OF PREPARING THE SAME

Verne D. Littlefield, Beverley Hills, Calif., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application August 11, 1937, Serial No. 158,576
18 Claims. (Cl. 99—113)

2. A dried egg white containing small amounts of tartaric acid and aluminum hydroxide.

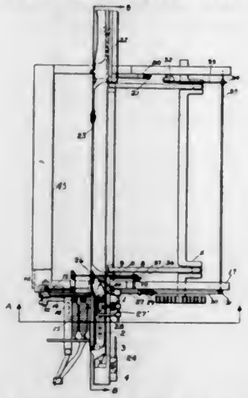
9. The process which comprises acidifying liquid egg whites until the pH thereof is between about 3 and 5, adding a water soluble, non-toxic aluminum compound thereto and drying the mixture.

2,166,071

FEELER AND PROTECTOR MECHANISM FOR SINGLE PICK AUTOMATIC LOOMS

John J. McCann, Lowell, and Joseph Stuer, Lawrence, Mass.

Application September 29, 1937, Serial No. 166,330
12 Claims. (Cl. 139—230)



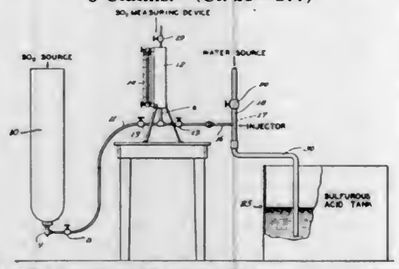
1. In an automatic loom, a race, a movable multi-cell shuttle box cooperating therewith, a lay carrying the shuttle box, feeler mechanism including a feeler arranged to feel a bobbin for substantially exhausted filling when the shuttle holding the bobbin in the box is out of alignment with the race, means carried by said mechanism and extending forwardly to such position that its forward portion is in longitudinal alignment with the shuttle being felt and slightly spaced from its inner end when the shuttle is properly boxed and when the lay is in its rearmost position, said means being adapted to prevent the feeler from operating on the bobbin and to cause displacement of the mechanism when the shuttle holding the bobbin is not properly boxed longitudinally, an arm carried by said mechanism in position to be engaged by a bobbin projecting from the shuttle and cause displacement of said mechanism, and means arranged to provide connection from the feeler mechanism to controlling mechanism for stopping the loom when said displacement is excessive.

2,166,072

PROCESS FOR TREATMENT OF LIQUIDS WITH SULPHUR DIOXIDE

Arthur C. Pope and Walter E. Pfleger, Marinette, Wis., assignors to Ansul Chemical Company, Marinette, Wis., a corporation of Wisconsin

Application July 22, 1938, Serial No. 220,710
5 Claims. (Cl. 23—177)



5. The method of preparing aqueous solutions of sulphur dioxide of predetermined strength which comprises slowly injecting at a regulated rate a stream of liquid sulphur dioxide through a nozzle into a pipe carrying a flowing stream of water surrounding said nozzle, absorbing the sulphur dioxide in said moving stream of water, regulating the flow of said streams to such quantities that no freezing occurs while forming an aqueous solution of sulphur dioxide.

2,166,073

PROCESS OF PREPARING BILIRUBIN

Jules D. Porsche, Edwin F. Pike, and John L. Gabby, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application October 1, 1937, Serial No. 166,888
8 Claims. (Cl. 260—313)

1. The process of obtaining bilirubin from admixtures of bile salts with salts of bilirubin which comprises acidifying the mixture of bile salts and bilirubin salts, mixing the acidified mixture with a normally liquid chlorinated aromatic hydrocarbon to dissolve the bilirubin liberated from its salt as a result of the acidification, but without dissolving the acidified bile salts, and then separating the insoluble materials from the solution of bilirubin.

2,166,074

GELATINOUS COLLOIDS

John Reichel, Philadelphia, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland (1929)

No Drawing. Application April 9, 1937, Serial No. 135,938
10 Claims. (Cl. 252—6)

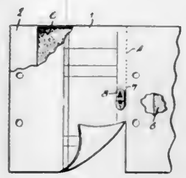
1. As new products, gelatinous colloids, obtained by the rapid freezing of aqueous solutions of such substances and removal of water from the frozen material under a high vacuum, said substances being in the form of porous, sponge-like masses, pieces of which under a microscope present a capillary net-like structure, said substances, when water is added thereto, dissolving in the water with greater rapidity and at lower temperatures than such substances in granulated or powdered form.

2,166,075

MANIFOLDING CONTINUOUS STATIONERY

Marcus S. Roosevelt and George L. Bezold, Hamilton, Ohio, assignors to The Hamilton Autographic Register Company, Hamilton, Ohio, a corporation of Ohio

Application September 16, 1937, Serial No. 164,208
5 Claims. (Cl. 282—12)



1. A manifolding packet of the class described, comprising a composite web composed of a plurality of collocated strips zig-zag folded, the strips having transverse weakened tearing lines coinci-

dent with the lines of fold dividing the web into laminated sections, a sheet of transfer material interposed between each pair of laminations of a section with an edge thereof bordering a transverse weakened tearing line, and a metallic fastener clipping the laminations and the transfer sheet or sheets of a section together adjacent a tear line, a portion of the fastener passing through an aperture in the web section, the apertures opened upon tearing the web section from the web along the tear line to release the fastener from the laminations and permit extraction of the transfer sheet or sheets therefrom.

2,166,076

PLATINUM METAL COMPOUNDS AND METHODS OF MAKING THEM

Edgar F. Rosenblatt, East Orange, N. J., assignor to Baker & Company, Inc., Newark, N. J., a corporation of New Jersey

No Drawing. Application February 27, 1936, Serial No. 66,068½
7 Claims. (Cl. 260—429)

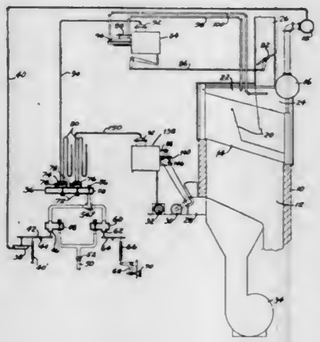
1. The reaction product of a complex containing a platinum group metal having at least one nitrite group and a phenol, the reactive hydrogen of said phenol reacting with oxygen of said group under the formation of a compound containing the radicals of both starting compounds combined into one molecule.

2,166,077

REGULATING APPARATUS AND METHOD

Albert F. Spitzglass, Chicago, Ill., assignor to Republic Flow Meters Company, Chicago, Ill., a corporation of Illinois

Application October 26, 1936, Serial No. 107,650
22 Claims. (Cl. 236—14)



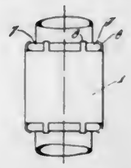
8. A boiler control system comprising control elements for controlling the supply of fuel and air to a boiler, regulators for controlling said elements respectively, said regulators including means balanced by forces varying in accordance with variations in functions of the fuel and air supply respectively and by forces varying in accordance with variations in a function of the steam generated, and means connected to said regulators and adjustable in accordance with the adjustment of said control elements during a predetermined range of boiler operation, to vary said balance means.

2,166,078

METAL PIPE JOINT

Arthur Stephenson, Westminster, London, England, assignor to The British Oxygen Company Limited, Westminster, London, England, a British company

Application October 24, 1936, Serial No. 107,489
In Great Britain July 27, 1936
3 Claims. (Cl. 285—115)



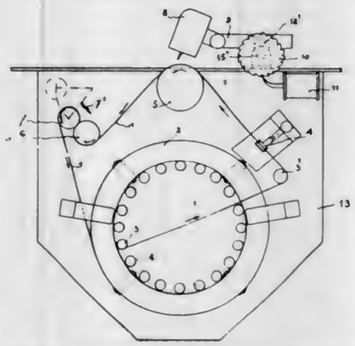
1. A socket or fitting structure having at least one recess for reception of an end portion of a conduit, said structure comprising a body portion having connected thereto a preformed ring of material having a relatively low melting point and designed to fuse below the fusion temperature of the conduit for which the fitting is adapted, whereby the periphery of said ring is at least partially exposed and accessible to direct application of heat for fusing said ring to form a joint.

2,166,079

METHOD AND APPARATUS FOR THE MECHANICAL RECORDING OF SOUND OSCILLATIONS

Pier Carlo Ricchiardi, Paris, France, assignor to the society "Reterson Holding", Paris, France

Application November 6, 1936, Serial No. 109,473
7 Claims. (Cl. 274—11)



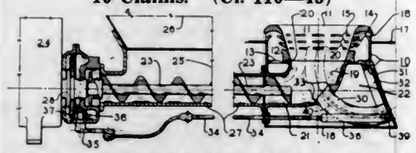
1. An apparatus for mechanical recording of sound oscillations with linear tracks, which comprises a stationary frame, two electromechanical organs carried by said frame and having engraving members for recording and reproducing sound oscillograms, an endless film serving for supporting the record, means for winding and unwinding in a continuous manner said endless film on a reel and passing it against said engraving members, in such a manner that one of said electromechanical organs working as reproducer permits to control the record made by the other, and a device for moving transversely with respect to said endless film one of said two electromechanical organs in order that it describes a new track.

2,166,080

STOKER

Clifford H. Snyder, Dormont, and Andrew W. Ferguson, Bellevue, Pa.; said Ferguson assignor to said Snyder

Application May 2, 1936, Serial No. 77,508
10 Claims. (Cl. 110—45)



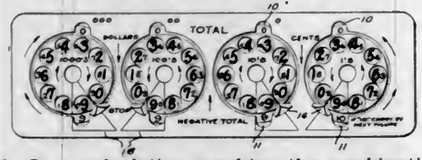
1. In an underfed stoker of the character described, the combination of a vertically disposed retort having an upwardly extending wall forming an enclosed throat in the upper portion of which combustion of the fuel occurs, a horizontal conduit communicating with the lower end of the throat at one side thereof, means for introducing fuel through the conduit into the bottom of the throat, the portion of the wall opposite the mouth of the conduit deflecting the fuel vertically upward through the throat, an agitator member having its free end extending into the throat through an opening in the bottom thereof, and means for moving said member substantially vertical into and out of the fuel in the throat below the zone of combustion to prevent the formation of solid masses of coke.

2,166,081

DIAL ADDING MACHINE

William Calhoun Thompson, Seattle, Wash.

Application March 15, 1935, Serial No. 11,252
3 Claims. (Cl. 235—74)



1. In a calculating machine the combination of a base having a series of numbered dials upon the upper face thereof, a reversible rotor for each of said dials rotatively mounted upon said base in axial alignment with its correlated dial and provided with a concentrically disposed crowned portion, each of said portions having a series of peripheral apertures formed therein and an annular row of apertures formed within the upper wall thereof for registration with the numbers on its correlated dial, a perimetric tooth on each of said rotors, the tooth of a lower order rotor being adapted to engage the peripheral apertures of the next higher order rotor, detent means for each of said rotors adapted to releasably engage the peripheral apertures thereof, and a cover provided with a series of openings through which said crowned portions normally project.

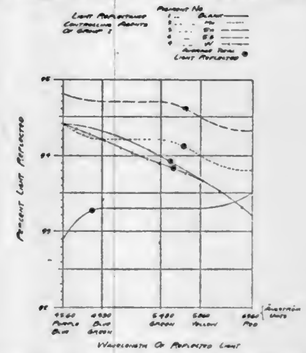
2,166,082

WHITE TITANIUM PIGMENT AND METHOD OF PREPARING THE SAME

Willis F. Washburn, Roy Dahlstrom, and Andrew T. McCord, Metuchen, N. J., assignors, by mesne assignments, to National Lead Company, New York, N. Y., a corporation of New Jersey

Application August 26, 1936, Serial No. 98,082
13 Claims. (Cl. 134—58)

1. A substantially white titanium pigment having a blue-gray color tone, comprising finely divided calcined particles of titanium dioxide and one or more light reflectance controlling agents selected from the group consisting of yttrium, molybdenum, palladium, tin, antimony, lanthanum, erbium, tungsten, platinum, gold and thorium in a predetermined amount between 0.001 percent. and 0.04 percent. based on the weight of the titanium dioxide in intimate association and operative relation therewith, said light reflectance controlling agents having the property of imparting to the said titanium dioxide



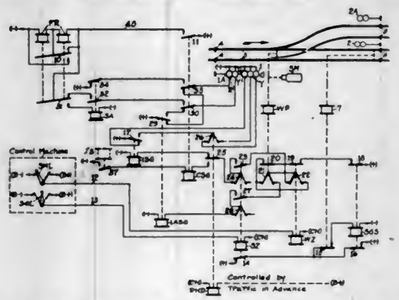
a blue-gray color tone, the said titanium pigment with the light reflectance controlling agents possessing the property of reflecting light of the relatively shorter wavelengths of the visible spectrum with slightly increased intensity over the average of total light reflected at all wavelengths and possessing a brightness not substantially lower than that of a similar but untreated white titanium pigment and essential pigment qualities not substantially inferior to the pigment qualities of the said untreated white titanium pigment, substantially as described.

2,166,083

TRAFFIC CONTROLLING SYSTEM FOR RAILROADS

Arthur R. Whitehorn, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.

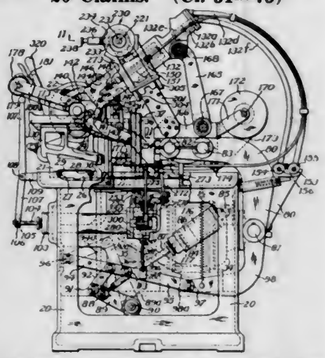
Application January 30, 1936, Serial No. 61,565
12 Claims. (Cl. 246—3)



10. In an interlocking system, in combination, a track layout including a track switch, and a main track and a turnout track controlled by the switch, two signals for the track, one for the main track and the other for the turnout, a signal lever movable to an operated position to clear one or the other of the signals by steadily energizing them, dependent upon the position of the track switch if a block in advance of the switch is un-

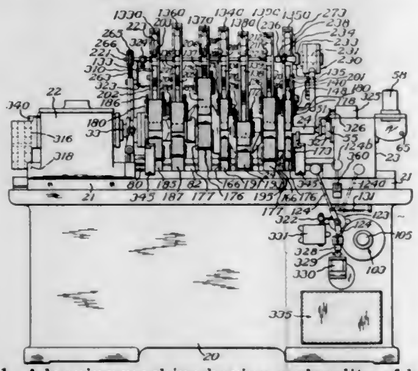
occupied, and means for clearing one of said signals, by flashing the same, by the lever dependent upon occupancy of said block in advance.

2,166,084
CRANKSHAFT LAPPING MACHINE
Wallace H. Wood, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application October 3, 1938, Serial No. 233,003
20 Claims. (Cl. 51—73)



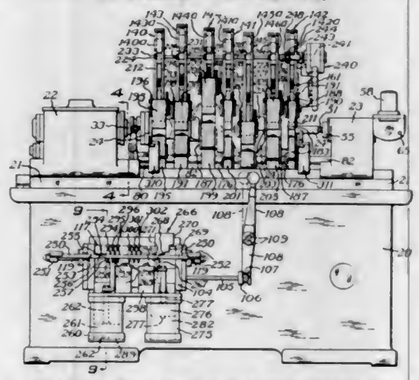
1. In a lapping machine having a plurality of lapping arms, a movable frame to support said arms, a clamping mechanism for clamping said arms relative to said frame, a rotatable work support including a motor driven headstock and a footstock, means including a manually operable clutch to start said headstock, a plurality of fluid motors respectively connected to actuate said footstock, said frame, said lapping arms and said clamping mechanism, a single manually operable control valve to control the admission to and exhaust of fluid from all of said motors, and a stop device to hold said control valve in an operating position during rotation of the headstock.

2,166,085
LAPPING MACHINE
Wallace H. Wood, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application November 3, 1938, Serial No. 238,625
9 Claims. (Cl. 51—73)



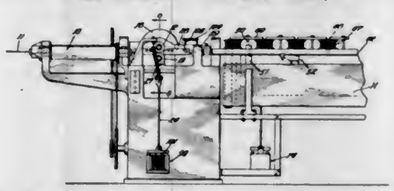
1. A lapping machine having a plurality of lapping arms, a rotatable work support including a headstock and a footstock, a carrier to support said arms which is movable to and from an operative position, a fluid motor for actuating each of said members, a control valve to control the flow of fluid under pressure to all of said fluid motors, and a pilot valve to shift said control valve to start the lapping cycle.

2,166,086
CRANKSHAFT LAPPING MACHINE
Wallace H. Wood, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application February 18, 1939, Serial No. 257,059
11 Claims. (Cl. 51—73)



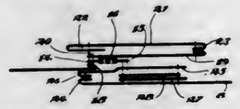
1. In a hydraulically operated crankshaft lapping machine having a plurality of fluid motors independently to operate the footstock, the lap arm assembly frame, the opposed lapping elements, the clamping mechanism and the headstock clutch, a cycle control valve, end chambers in said cycle control valve whereby the valve may be shifted in either direction by fluid under pressure, a manually operable valve to admit fluid under pressure to either end chamber of said control valve, a throttle valve to control the exhaust of fluid from said end chambers, and means including a plurality of spaced adjustable members whereby the throttle valve may be actuated intermittently to slow down the control valve movement sufficiently so that one mechanism may complete its operation before the next mechanism starts whereby the footstock, lap arm assembly, lap elements, lap arm clamping mechanism and headstock clutch operate in the desired and predetermined sequence.

2,166,087
WIRE CUTTING MACHINE
John G. Baumgartner, Aurora, Ill., assignor to National Brush Company, Aurora, Ill., a corporation of Illinois
Application February 5, 1938, Serial No. 188,973
18 Claims. (Cl. 140—140)



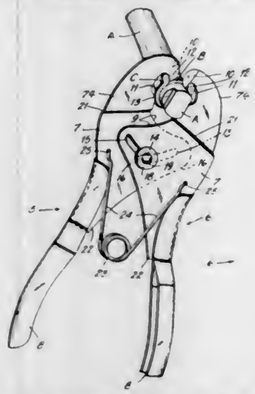
1. In a wire-cutting machine, in combination, wire-cutting means, guide means positioned on one side of the cutting means for guiding a measured length of wire to be cut and continuously open in one portion for release of wire therefrom after the cutting of the wire, stationary magnetic means for retaining said wire in said guide means prior to cutting the wire, and feeding means positioned on the other side of the cutting means for feeding wire through said cutting means into said guide means.

2,166,088
GARMENT
William A. Boetcker, Flushing, N. Y., assignor to Talon, Inc., a corporation of Pennsylvania
Application September 27, 1938, Serial No. 231,890
5 Claims. (Cl. 2—234)



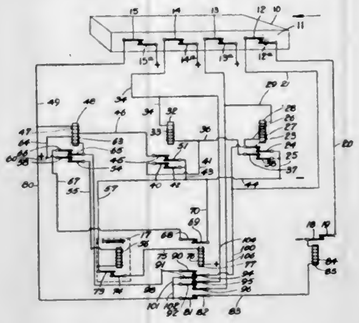
1. In trousers having a fly opening, the combination of a pair of overlapping flaps, a slide fastener disposed between the flaps for closing the opening, the slide fastener including a pair of tapes and a row of fastener elements on each tape of greater thickness than the tapes, one of the tapes being secured to each flap, and a strip of padding in one of said flaps extending alongside and closely adjacent the fastener elements to offset to a substantial degree the thickness of the fastener elements.

2,166,089
TOOL
Hugo L. Brenner, Kirkwood, Mo., assignor to Barrett Equipment Company, St. Louis, Mo., a corporation of Missouri
Application March 10, 1937, Serial No. 130,001
3 Claims. (Cl. 29—87.1)



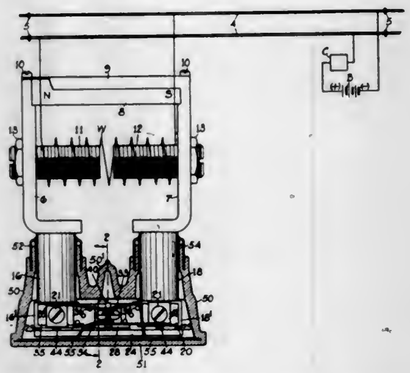
3. A tool for spreading the ends of a C-washer, comprising paired members having intermediate portions disposed in overlapping relation, at least one of said portions having a slot, a pin extending through said slot and freely slidable therein, said pin connecting the members together for angular and lateral translatory movement relative to each other; said members terminating in coacting jaws adapted to encircle a C-washer, the inner, confronting faces of said jaws being recessed to define fulcrum shoulders adapted to bear on the sides of the C-washer and inwardly directed claws for engaging the ends of the C-washer.

2,166,090
TREADLE CONTROLLED SYSTEM
Benjamin Cooper, New York, N. Y.
Application August 3, 1935, Serial No. 34,525
12 Claims. (Cl. 235—92)



1. In combination, a multi-switch member adapted to be embedded in a roadbed having four switches, an electric device, and means for producing an electric impulse in said device when the first switch is first actuated, the second switch thereafter actuated while the first switch is still in actuated condition, the third switch thereafter actuated while the second is still in actuated condition and the first switch is released and the fourth switch actuated while the third switch is still in actuated condition, and the second switch is released, said means being operable only upon actuating all four of said switches.

2,166,091
RELAY
Oscar S. Field, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application June 29, 1935, Serial No. 29,121
7 Claims. (Cl. 200—93)



1. In a relay, a permanent magnet, an electromagnet core coupled in multiple with the permanent magnet, an air gap in the electro-magnetic core, an armature normally attracted by the permanent magnet to a position completing a magnetic circuit in multiple with the electromagnet core, and a winding on the electro-magnet core operable to release the armature when energized with current of one polarity only.

2,166,092
TROUSER FLY CONSTRUCTION
Donald W. Galloway, Chicago, Ill., assignor to Talon, Inc., a corporation of Pennsylvania
Application March 9, 1938, Serial No. 194,783
3 Claims. (Cl. 2—234)

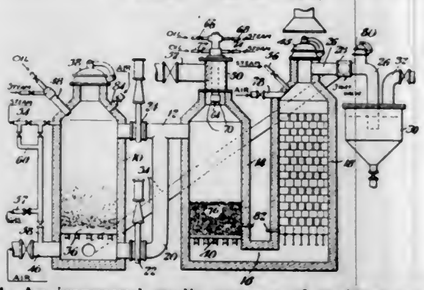


1. In trouser construction, a pair of overlapping flies and a slide fastener for uniting the fly fronts, the under fly having a protective flap extending underneath the fastener and being permanently attached to the other fly on the opposite side of the fastener at a sufficient distance from the bottom end of the slide fastener to remove tearing stresses from the bottom end of the fastener when the fastener is open.

2,166,093
PROCESS OF CONCENTRATING ORES
James Harwood and William O. Pool, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application April 28, 1937, Serial No. 139,611
7 Claims. (Cl. 209—166)

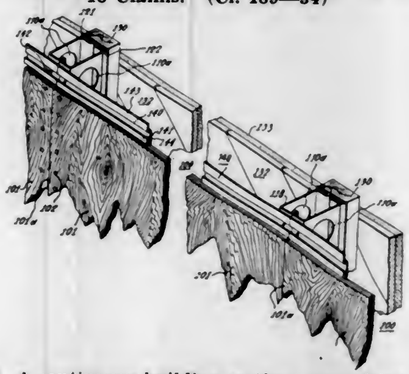
1. In the froth flotation of ores the step which comprises subjecting to froth flotation an aqueous pulp of the ore containing a mixture of saturated and unsaturated aliphatic nitriles in which nitriles having at least three and not more than ten carbon atoms predominate.

2,166,094
MANUFACTURE OF HIGH CALORIFIC VALUE GAS
Alfred Johnson, Summit, and Morris M. Brandegee, Plainfield, N. J.
Application June 24, 1937, Serial No. 150,058
7 Claims. (Cl. 48—196)



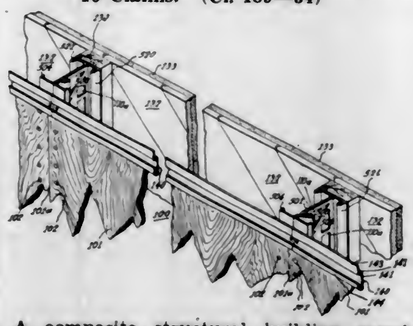
4. An improved cyclic process of making combustible gas having a calorific value in the range 900–1100 B. t. u./cu. ft. and combustion characteristics substantially corresponding with those of natural gas in apparatus comprising a single gas generator having therein a bed of coke, a single carbureter having a carbon filtering screen of ceramic brick supported transversely thereof, and a single superheater filled with checkerbrick, which comprises periodically heating up the apparatus by air blasting the coke in the generator and burning the blast gases thereby produced in contact with the carbureter screen and the superheater checkerbrick, and between periods of heating introducing hydrocarbon gas into the top of the generator and simultaneously spraying oil into the top of the carbureter, reforming the gas in the generator fuel bed and cracking the oil in the carbureter in an atmosphere of the reform gas, passing the mixed oil gas-reform gas thereby produced through the superheater, and returning a part of the reform gas-oil gas mixture into the generator in admixture with a small amount of steam, the temperature and rate of injection of gas, oil and steam into the apparatus being controlled and adjusted to produce a final reform gas-oil gas make having a calorific value and combustion characteristics within the range specified.

2,166,095
BUILDING CONSTRUCTION
Guy Felix Kotrbaty, Chestnut Hill, Pa.
Application July 31, 1937, Serial No. 156,756
18 Claims. (Cl. 189—34)



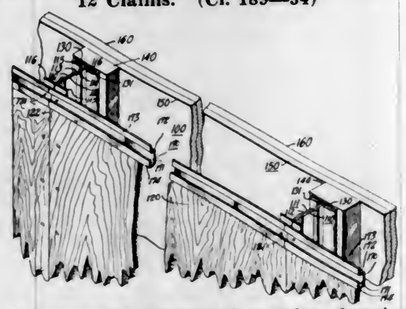
1. A continuous building section, comprising an array of self-supporting building units, each unit including a single face or panel section secured to and spacing end structural elements, the juxtaposed end elements of abutted units forming composite structural members; means in the end elements for cooperative engagement with complementary elements, and locking means joining the several juxtaposed end elements at the free edges thereof.

2,166,096
BUILDING CONSTRUCTION
Guy Felix Kotrbaty, Chestnut Hill, Pa.
Application August 6, 1937, Serial No. 157,683
16 Claims. (Cl. 189—34)



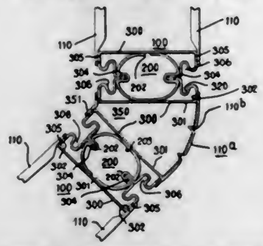
1. A composite structural building member forming a generally I-beam construction, comprising a pair of half sections of channel shape, the edges forming rail sections and being shallow channels having a supporting and stiffening flange serving as a locking member, the web sections having angular longitudinal tongues and grooves adapted for mating locking engagement, and a channeled keying member having double hook flanges in locking engagement with the supporting and stiffening flanges on one rail of the composite beam member, the keying member having a nailable furring strip or sleeper secured thereto.

2,166,097
BUILDING CONSTRUCTION
Guy Felix Kotrbaty, Chestnut Hill, Pa.
Application August 9, 1937, Serial No. 158,178
12 Claims. (Cl. 189—34)



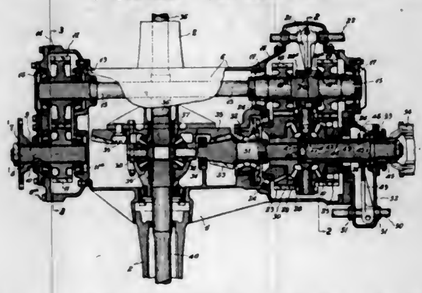
1. A composite structural member forming a generally I-beam construction, comprising a pair of half-sections, each section including a flat web portion and angular flanged edges forming a channel; double mating tongues and grooves in the web sections and substantially adjacent the edge flanges, the edge flanges forming flat rail sections; flat keying members disposed on and over the edge flanges at one side of the composite member, locking the parts and forming a composite I-beam; the other flanges of the abutted members being adapted to receive panel sections of building members.

2,166,098
ANGULAR STRUCTURAL UNIT AND ASSEMBLY
Guy F. Kotrbaty, Chestnut Hill, Pa., assignor to Ferrocon Corporation, Bryn Mawr, Pa., a corporation of Delaware
Original application October 1, 1935, Serial No. 43,017. Divided and this application October 4, 1937, Serial No. 167,245
2 Claims. (Cl. 189—34)



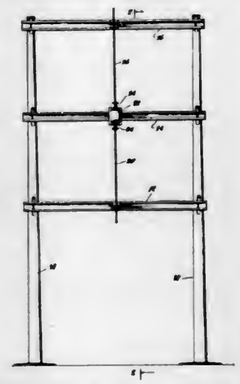
1. A building construction, including an array of self supporting building units and having wall sections formed of abutted units, including spaced panel sections and end stud sections of everted channel shape having inturned spring gripping flanges and keying members in engagement with gripping flanges of juxtaposed units, the panel members of the units including horizontal ribbed sections imparting structural strength and rigidity thereto; angular joint units associated with and joined to wall units, the angular units including an angular structural member forming one face of the unit and a panel member of greater width than angular member forming the other face of the angular unit, the said panel member being vertically ribbed to permit bending through any arc.

2,166,099
MULTIPLE-AXLE DRIVE
Orpheus F. Quartullo, Shaker Heights, Ohio
Application December 23, 1937, Serial No. 181,383
7 Claims. (Cl. 180—22)



1. In a vehicular drive mechanism, the combination of a driving shaft, spaced differential axles and a connection therebetween comprising a pair of axially separated driven shafts and a differential gear set comprising a pair of gears on said shafts respectively and also comprising a centrally hollowed spider interposed between said gears, means movable within said spider for locking said set against differential rotation, one of said driven shafts intersecting said spider and means for steadying said interlocked parts when in functionating position.

2,166,100
DIRECTION FINDER
Ferris W. Sullinger, Coral Gables, Fla., assignor to Pan American Airways Corporation, Jersey City, N. J., a corporation of Delaware
Application April 8, 1937, Serial No. 135,650
9 Claims. (Cl. 250—33)

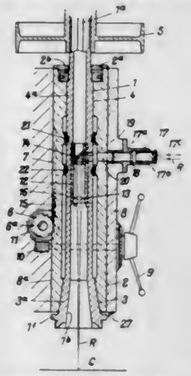


1. In a supporting structure for vertical antennae, the combination of a vertical supporting

element, vertically spaced laterally extending supporting members on said element, a vertical antenna mounted on said supporting members, means for fixing a portion of the antenna spaced from the upper end thereof to one of said members, and means for movably connecting another portion of the antenna to another supporting member, said supporting members maintaining the entire antenna spaced from the supporting element sufficiently to avoid variable capacity effects between the supporting element and the antenna.

2,166,101
CENTERING MEANS FOR DRILLING MACHINE SPINDLES
Georg Möller, Berlin-Neukoelln, Germany, assignor to Herbert Lindner, Berlin-Wittenau, Germany
Application January 4, 1937, Serial No. 119,042
In Germany May 14, 1936
2 Claims. (Cl. 77—5)

1. In combination with a drilling machine having a head carrying a vertically movable spindle sleeve and having a drill spindle rotatably mounted in said sleeve, said sleeve and drill spindle having alinable sight openings and cooperating means being provided on the head and spindle for indicating alinement of said openings, a tube fixed in the hollow spindle and having an opening registering with the sight opening in the spindle, an object glass at the lower end of said tube,

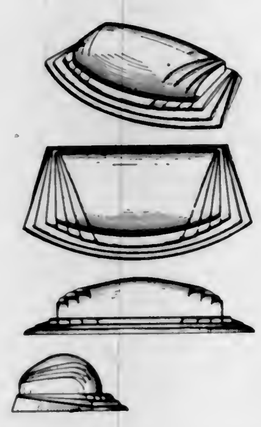


a reflector above said glass and opposite the tube opening, and a laterally extending eye-piece fixed to the head and adapted to have the sight opening in the sleeve brought into registry therewith.

DESIGNS

JULY 11, 1939

115,602
DESIGN FOR A DISPLAY BOX
Jack G. Allen, Chicago, Ill., assignor to F. H. Noble & Co., Chicago, Ill., a corporation of Illinois
Application May 15, 1939, Serial No. 84,999
Term of patent 7 years



The ornamental design for a display box, as shown.

115,603
DESIGN FOR A DISPLAY BOX
Jack G. Allen, Chicago, Ill., assignor to F. H. Noble & Co., Chicago, Ill., a corporation of Illinois
Application May 15, 1939, Serial No. 85,000
Term of patent 7 years



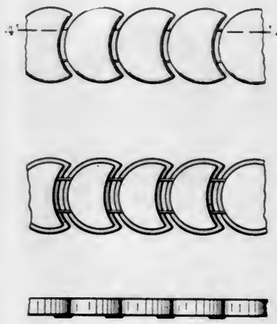
The ornamental design for a display box, as shown.

115,604
DESIGN FOR A BUTTON
Sidney Baritz, Great Neck, N. Y.
Application May 3, 1939, Serial No. 84,760
Term of patent 14 years



The ornamental design for a button, substantially as shown.

115,605
DESIGN FOR A BUTTON TRIMMING FOR WEARING APPAREL
Sidney Baritz, Great Neck, N. Y.
Application May 3, 1939, Serial No. 84,761
Term of patent 14 years



The ornamental design for a button trimming for wearing apparel, substantially as shown.

115,606
DESIGN FOR A SHOE SOLE
Maurice J. Bernstein, Brighton, Mass., assignor to Panther-Panco Rubber Co. Inc., Chelsea, Mass., a corporation of Massachusetts
Application March 7, 1939, Serial No. 83,392
Term of patent 14 years



The ornamental design for a shoe sole, substantially as shown.

115,607
DESIGN FOR A SHOE HEEL
Maurice J. Bernstein, Brighton, Mass., assignor to Panther-Panco Rubber Co. Inc., Chelsea, Mass., a corporation of Massachusetts
Application March 7, 1939, Serial No. 83,393
Term of patent 14 years



The ornamental design for a shoe heel, substantially as shown.

115,608
DESIGN FOR A FOOD DISPENSER
Georges Binon, New York, N. Y., assignor to The Food Dispenser Company, a corporation of Connecticut
Application October 19, 1938, Serial No. 80,560
Term of patent 14 years



The ornamental design for a food dispenser, substantially as shown.

115,609
DESIGN FOR A SPOON
Lillie A. Birmingham, San Francisco, Calif.
Application February 13, 1939, Serial No. 82,935
Term of patent 3½ years



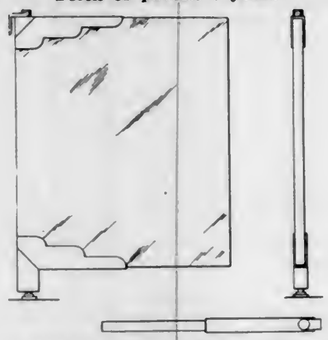
The ornamental design for a spoon, as shown.

115,610
DESIGN FOR A SHOE
Norman E. Bovay, Naugatuck, Conn., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 3, 1938, Serial No. 81,540
Term of patent 3½ years



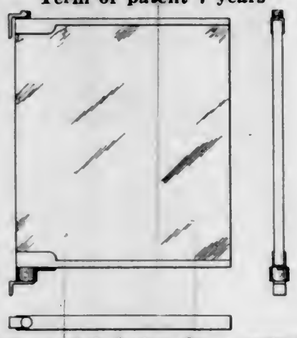
The ornamental design for a shoe, as shown.

115,611
DESIGN FOR A SWINGING GLASS GATE
Samuel F. Cox, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
Application June 1, 1938, Serial No. 77,471
Term of patent 7 years



The ornamental design for a swinging glass gate, as shown and described.

115,612
DESIGN FOR A SWINGING GLASS DOOR
Samuel F. Cox, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, a corporation of Pennsylvania
Application June 1, 1938, Serial No. 77,472
Term of patent 7 years



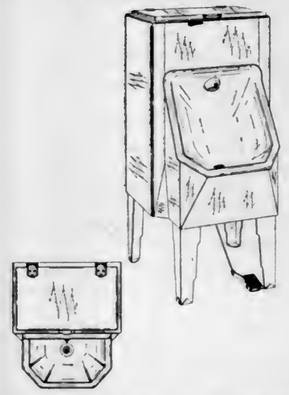
The ornamental design for a swinging glass door as shown and described.

115,613
DESIGN FOR A SCARF HOLDER
John R. Craighead, Denver, Colo.
Application September 13, 1938, Serial No. 79,860
Term of patent 7 years



The ornamental design for a scarf holder, as shown.

115,614
DESIGN FOR A LAVATORY UNIT
Paul Ebling, Minneapolis, Minn., assignor to The Showerway Company, Minneapolis, Minn., a corporation of Minnesota
Application April 27, 1939, Serial No. 84,599
Term of patent 14 years



The ornamental design for a lavatory unit, as shown.

115,615
DESIGN FOR A WALL SHELF
William Y. Farrah, Kansas City, Mo.
Application December 12, 1938, Serial No. 81,718
Term of patent 3½ years



The ornamental design for a wall shelf, as shown.

115,616
DESIGN FOR A MUSICAL INSTRUMENT OF A FLUTE-LIKE NATURE
Elver J. Fitchhorn, Delaware, Ohio
Application May 2, 1939, Serial No. 84,726
Term of patent 14 years



The ornamental design for a musical instrument of a flute-like nature, as shown.

115,617
DESIGN FOR A SERVING PLATTER OR SIMILAR ARTICLE
Sol Forman, New York, N. Y.
Application May 15, 1939, Serial No. 84,994
Term of patent 3½ years



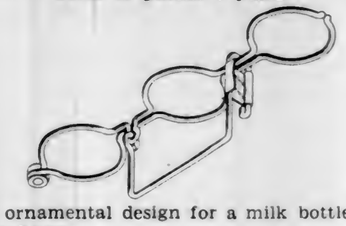
The ornamental design for a serving platter or similar article, substantially as shown.

115,618
DESIGN FOR A SHOE
Anthony H. Geuting, Philadelphia, Pa.
Application January 5, 1939, Serial No. 82,178
Term of patent 14 years



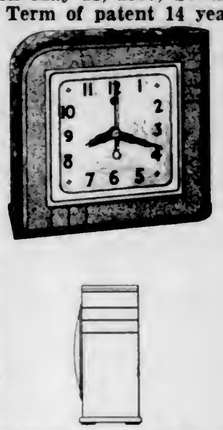
The ornamental design for a shoe, as shown and described.

115,619
DESIGN FOR A MILK BOTTLE CARRIER
William A. Goodwin, Lincoln, Nebr.
Application March 10, 1939, Serial No. 83,494
Term of patent 7 years



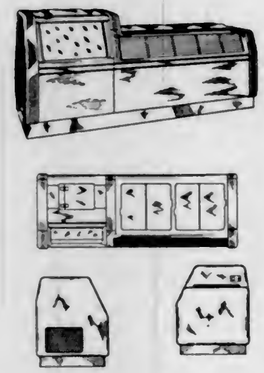
The ornamental design for a milk bottle carrier, as shown.

115,620
DESIGN FOR A CLOCK CASE
Robert W. Goulet, Providence, R. I., assignor to Warren Telechron Company, a corporation of Maine
Application May 13, 1939, Serial No. 84 978
Term of patent 14 years



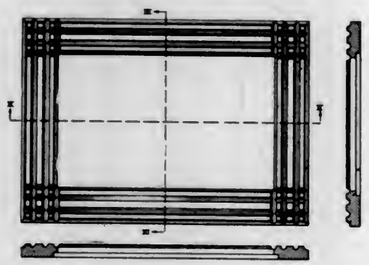
The ornamental design for a clock case, as shown.

115,621
DESIGN FOR A COMBINED STORAGE AND DISPLAY CASE OR THE LIKE
Chauncey V. Hill, Trenton, N. J., assignor to C. V. Hill & Company, Incorporated, Trenton, N. J., a corporation of New Jersey
Application October 14, 1938, Serial No. 80,451
Term of patent 14 years



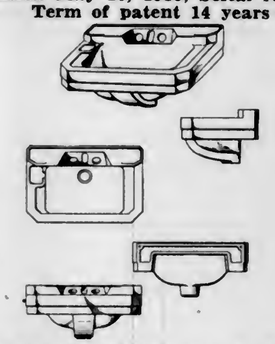
The ornamental design for a combined storage and display case or the like, substantially as shown and described.

115,622
DESIGN FOR A PICTURE FRAME
John H. Jewett, Detroit, Mich.
Application November 17, 1938, Serial No. 81,173
Term of patent 3½ years



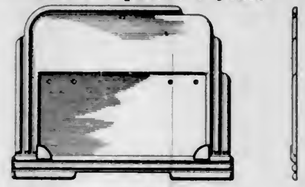
The ornamental design for a picture frame, as shown.

115,623
DESIGN FOR A LAVATORY
George W. Kohlmeyer, Buffalo, N. Y., assignor to W. A. Case & Son Manufacturing Company, Buffalo, N. Y., a corporation of New York
Application May 10, 1939, Serial No. 84,909
Term of patent 14 years



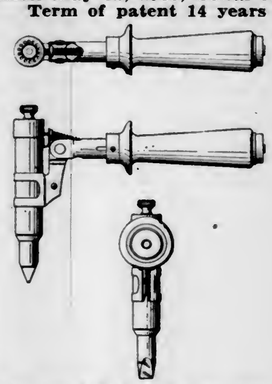
The ornamental design for a lavatory, as shown and described.

115,624
DESIGN FOR A CALENDAR STAND
Carlyle N. Montanye, Baltimore, Md.
Application May 4, 1939, Serial No. 84,802
Term of patent 7 years



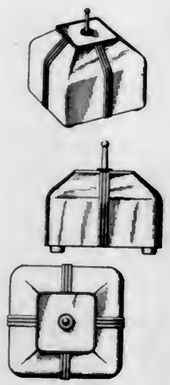
The ornamental design for a calendar stand, as shown.

115,625
DESIGN FOR AN ELECTRIC SOLDERING DEVICE
Lembert H. Moulthrop, Bridgeport, Conn.
Application May 12, 1939, Serial No. 84,943
Term of patent 14 years



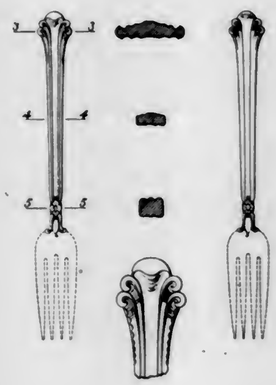
The ornamental design for an electric soldering device, as shown.

115,626
DESIGN FOR AN AUDIBLE TIMER OR SIMILAR ARTICLE
William E. Naylor, New York, N. Y., assignor to Fink-Roselieve Co. Inc., New York, N. Y., a corporation of New York
Application May 3, 1939, Serial No. 84,762
Term of patent 7 years



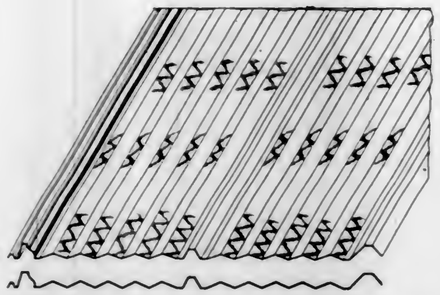
The ornamental design for an audible timer or similar article, substantially as shown.

115,627
DESIGN FOR A FORK OR ANALOGOUS ARTICLE
Harold E. Nock, Newburyport, Mass., assignor to Towle Manufacturing Company, Newburyport, Mass., a corporation of Massachusetts
Application April 4, 1939, Serial No. 84,031
Term of patent 14 years



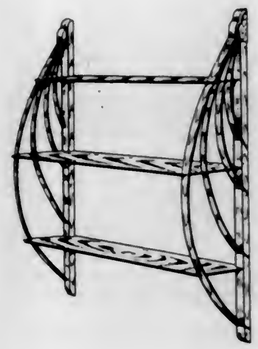
The ornamental design for a fork or analogous article, substantially as shown and described.

115,628
DESIGN FOR A ROOFING SHEET
Harry L. Olden, Cincinnati, Ohio, assignor to The Cincinnati Sheet Metal & Roofing Company, Cincinnati, Ohio, a company
Application June 6, 1938, Serial No. 77,621
Term of patent 14 years



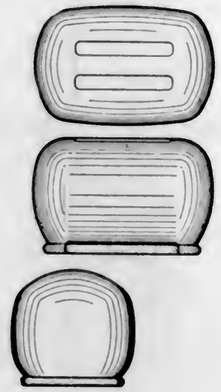
The ornamental design for a roofing sheet, as shown and described.

115,629
DESIGN FOR A WALL SHELF
William F. Ortwig, Benton Harbor, Mich.
Application March 30, 1939, Serial No. 83,917
Term of patent 3½ years



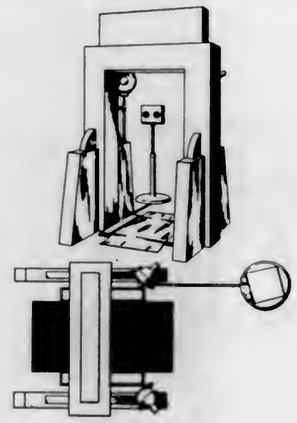
The ornamental design for a wall shelf, as shown.

115,630
DESIGN FOR A CASING FOR A BREAD TOASTER
Joseph Pavelka, Jr., and Victor Cornejo, St. Louis, Mo., assignors to Joseph Pavelka, St. Louis, Mo.
Application December 7, 1938, Serial No. 81,616
Term of patent 7 years



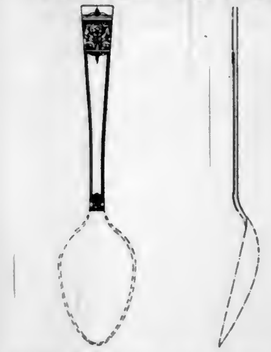
The ornamental design for a casing for a bread toaster, substantially as shown.

115,631
DESIGN FOR A SELF-PHOTOGRAPHING APPARATUS
William W. Rice, Chicago, Ill.
Application February 23, 1939, Serial No. 83,160
Term of patent 3½ years



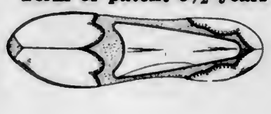
The ornamental design for a self-photographing apparatus, as shown and described.

115,632
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Milton Schulgasser, New York, N. Y., assignor to National Silver Company, New York, N. Y., a corporation of New York
Application May 20, 1939, Serial No. 85,097
Term of patent 14 years



The ornamental design for a spoon or similar article as shown.

115,633
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Leo Sholtz, New York, N. Y.
Application May 22, 1939, Serial No. 85,121
Term of patent 3½ years





The ornamental design for a shoe or similar article, substantially as shown.

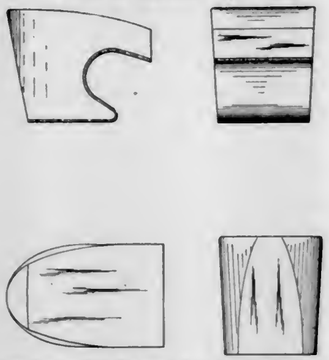
115,634
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Leo Sholtz, New York, N. Y.
Application May 22, 1939, Serial No. 85,122
Term of patent 3½ years





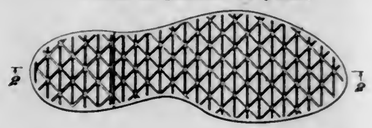
The ornamental design for a shoe or similar article, substantially as shown and described.

115,635
DESIGN FOR A SHOE HEEL OR SIMILAR ARTICLE
Leo Sholtz, New York, N. Y.
Application May 22, 1939, Serial No. 85,123
Term of patent 3½ years



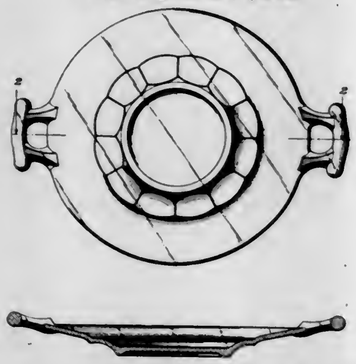
The ornamental design for a shoe heel or similar article, substantially as shown.

115,636
DESIGN FOR A SHOE SOLE
Paul A. Sperry, New Haven, Conn.
Application April 25, 1939, Serial No. 84,538
Term of patent 14 years



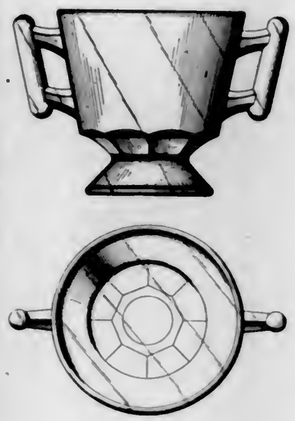
The ornamental design for a shoe sole, substantially as shown.

115,637
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Marvin G. Yutzey, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 6, 1939, Serial No. 84,095
Term of patent 7 years



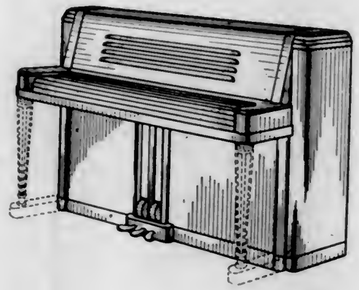
The ornamental design for a plate or similar article, substantially as shown.

115,638
DESIGN FOR A SUGAR BOWL OR SIMILAR ARTICLE
Marvin G. Yutzey, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 6, 1939, Serial No. 84,096
Term of patent 7 years



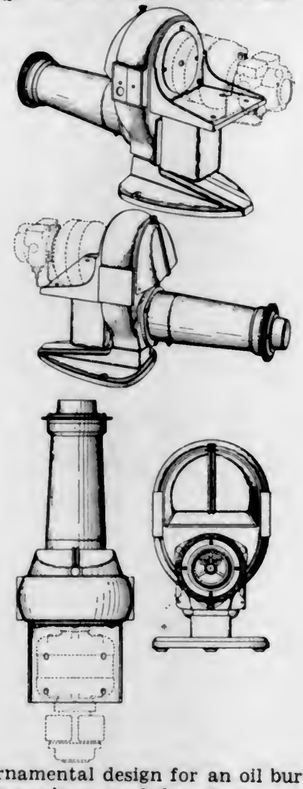
The ornamental design for a sugar bowl or similar article, substantially as shown.

115,639
DESIGN FOR A PIANO
William Zaiser, Rockville Centre, N. Y., assignor to The Rudolph Wurlitzer Company, Cincinnati, Ohio, a corporation
Application April 29, 1939, Serial No. 84,670
Term of patent 7 years



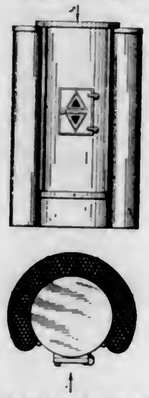
The ornamental design for a piano, as shown and described.

115,640
DESIGN FOR AN OIL BURNER
Reginald W. Beckett, Elyria, Ohio
Application February 4, 1938, Serial No. 74,886
Term of patent 14 years



The ornamental design for an oil burner, substantially as shown and described.

115,641
DESIGN FOR A HEATER
Charles E. Beyer, Rosamond, Calif.
Application November 15, 1938, Serial No. 81,103
Term of patent 14 years



The ornamental design for a heater, as shown and described.

115,642
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Edgar Mott Bottome, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 17, 1939, Serial No. 84,331
Term of patent 3½ years



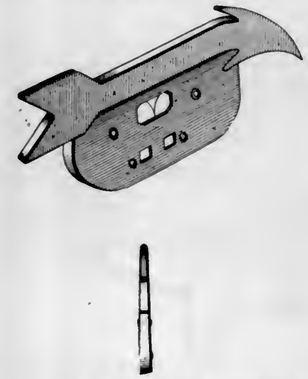
The ornamental design for a goblet or similar article, substantially as shown and described.

115,643
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Edgar Mott Bottome, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 17, 1939, Serial No. 84,333
Term of patent 3½ years



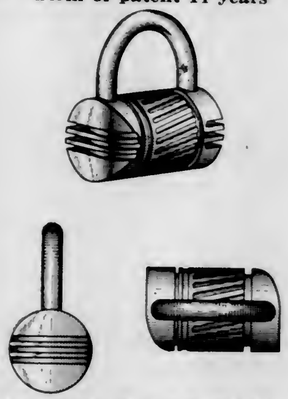
The ornamental design for a goblet or similar article, substantially as shown and described.

115,644
DESIGN FOR A SIGN
Earl C. Brownell, Portland, Oreg.
Application May 12, 1939, Serial No. 84,953
Term of patent 14 years



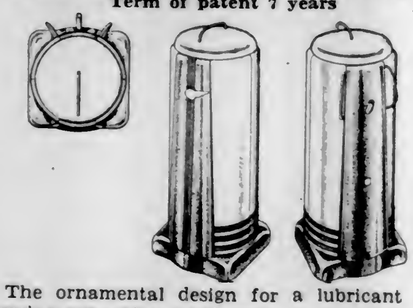
The ornamental design for a sign, as shown.

115,645
DESIGN FOR A PADLOCK
Kenly C. Bugg, Farmington, Mo.
Application November 9, 1938, Serial No. 80,977
Term of patent 14 years



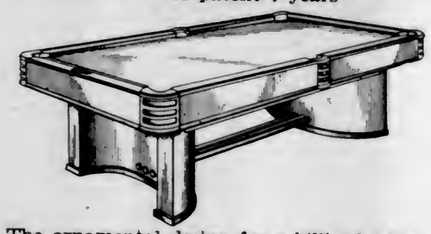
The ornamental design for a padlock, as shown.

115,646
DESIGN FOR A LUBRICANT DISPENSING APPARATUS
Arthur Fuller Dean, Winnetka, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application April 20, 1939, Serial No. 84,434
Term of patent 7 years



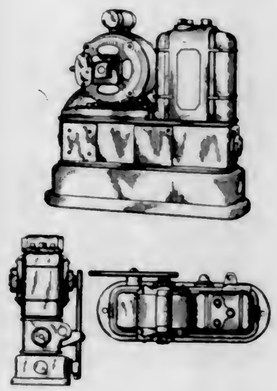
The ornamental design for a lubricant dispensing apparatus, as shown.

115,647
DESIGN FOR A BILLIARD TABLE
Donald Deskey, New York, N. Y., assignor to The Brunswick-Balke-Collender Company, Chicago, Ill., a corporation of Delaware
Application November 30, 1938, Serial No. 81,478
Term of patent 7 years



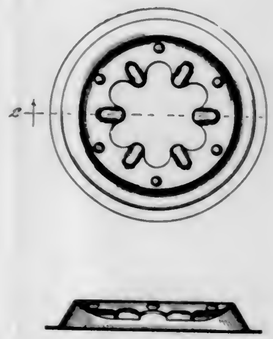
The ornamental design for a billiard table, as shown.

115,648
DESIGN FOR A WATER PUMP UNIT
Earl E. Eickmeyer, Stewart L. Butler, and Harry J. Rothermel, Dayton, Ohio, assignors to The Dayton Pump & Mfg. Company, Dayton, Ohio, a corporation of Ohio
Application March 2, 1939, Serial No. 83,296
Term of patent 14 years



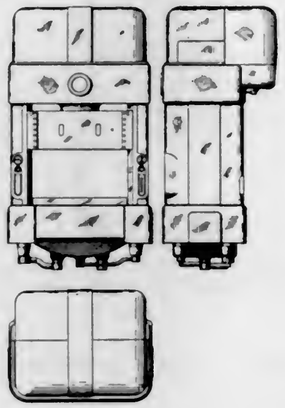
The ornamental design for a water pump unit, substantially as shown.

115,649
DESIGN FOR A COFFEE BOTTLE SUPPORTING PLATE
Mike H. Emmer, Los Angeles, Calif.
Application April 22, 1939, Serial No. 84,496
Term of patent 3½ years



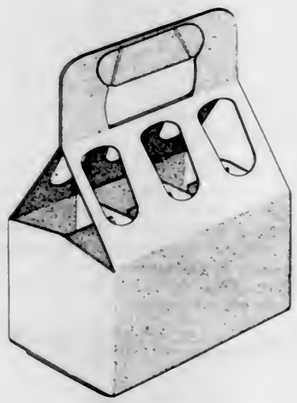
The ornamental design for a coffee bottle supporting plate, as shown.

115,650
DESIGN FOR A PRESS
Walter Ernst, Mount Gilead, and Harold Van Doren, Toledo, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application March 15, 1939, Serial No. 83,588
Term of patent 7 years



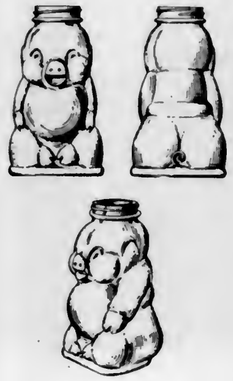
The ornamental design for a press, substantially as shown.

115,651
DESIGN FOR A BOTTLE CARRIER
George F. Ford and Cecil R. Barbee, Beverly Hills, and Preston H. Squires, Lynwood, Calif., assignors to Fibreboard Products Inc., San Francisco, Calif., a corporation of Delaware
Application August 25, 1938, Serial No. 79,560
Term of patent 7 years



The ornamental design for a bottle carrier, substantially as shown.

115,652
DESIGN FOR A JAR
Jack L. Hendrickson, Wheeling, W. Va., assignor to Hazel-Atlas Glass Company, Wheeling, W. Va., a corporation of West Virginia
Application November 25, 1938, Serial No. 81,363
Term of patent 14 years



The ornamental design for a jar, as shown.

115,653
DESIGN FOR A COMFORTABLE
Peter Joseph, New York, N. Y.
Application June 7, 1939, Serial No. 85,379
Term of patent 3½ years



The ornamental design for a comfortable, substantially as shown.

115,654
DESIGN FOR A COMFORTABLE
Peter Joseph, New York, N. Y.
Application June 16, 1939, Serial No. 85,509
Term of patent 3½ years



The ornamental design for a comfortable, substantially as shown.

115,655
DESIGN FOR A COMFORTABLE
Peter Joseph, New York, N. Y.
Application June 16, 1939, Serial No. 85,510
Term of patent 3½ years



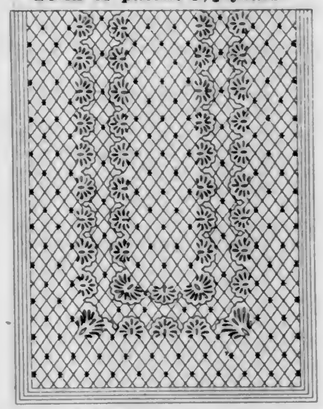
The ornamental design for a comfortable, substantially as shown.

115,656
DESIGN FOR A BOTTLE OR SIMILAR ARTICLE
Edward M. Lawrence, Lancaster, Ohio
Application April 28, 1939, Serial No. 84,649
Term of patent 3½ years



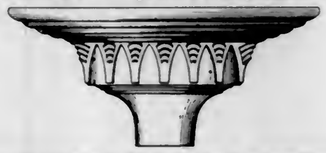
The ornamental design for a bottle or similar article, substantially as shown and described.

115,657
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application June 13, 1939, Serial No. 85,465
Term of patent 3½ years



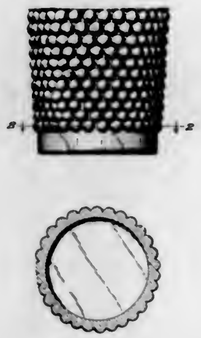
The ornamental design for a bedspread, substantially as shown.

115,658
DESIGN FOR A TORCHIERE SHADE
Richard Orth, Philadelphia, Pa., assignor to Gill Glass & Fixture Company, Philadelphia, Pa., a corporation of Delaware
Application May 4, 1939, Serial No. 84,796
Term of patent 3½ years



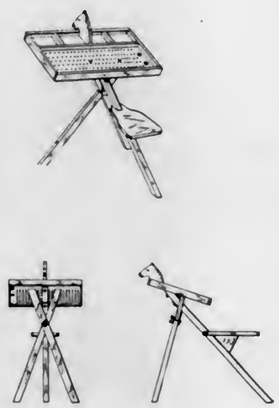
The ornamental design for a torchiere shade as shown and described.

115,659
DESIGN FOR A VIGIL CANDLE TUMBLER OR SIMILAR ARTICLE
Henry Rithner, Wellsburg, W. Va.
Application April 21, 1939, Serial No. 84,459
Term of patent 14 years



The ornamental design for a vigil candle tumbler or similar article, substantially as shown and described.

115,660
DESIGN FOR A COMBINATION DESK AND PLAY BOARD
Frank B. Robb, Chagrin Falls, Ohio
Application May 4, 1939, Serial No. 84,804
Term of patent 7 years



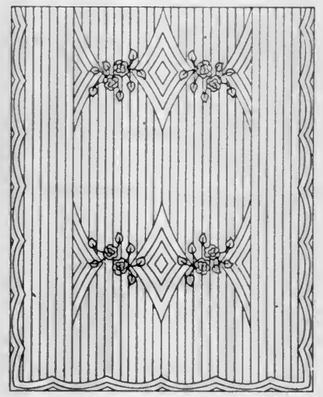
The ornamental design for a combination desk and play board, substantially as shown.

115,661
DESIGN FOR A METAL CHAIR OR SIMILAR ARTICLE
Irving Salomon, Chicago, Ill.
Application June 5, 1939, Serial No. 85,352
Term of patent 7 years



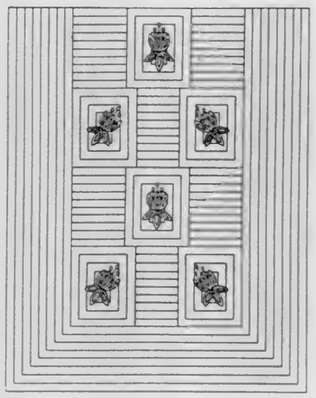
The ornamental design for a metal chair or similar article, as shown.

115,662
DESIGN FOR A BEDSPREAD
Richard Steinweg, New York, N. Y.
Application June 9, 1939, Serial No. 85,427
Term of patent 3½ years



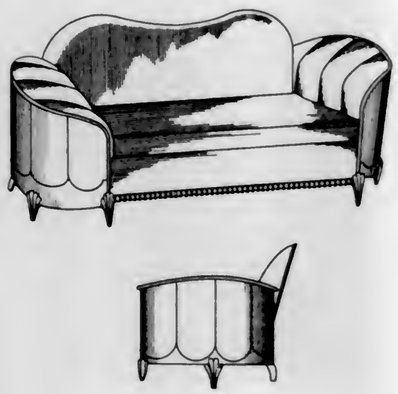
The ornamental design for a bedspread, substantially as shown.

115,663
DESIGN FOR A BEDSPREAD
Richard Steinweg, New York, N. Y.
Application June 9, 1939, Serial No. 85,428
Term of patent 3½ years



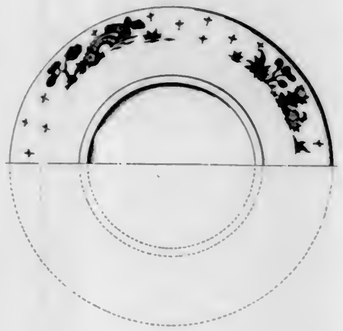
The ornamental design for a bedspread, substantially as shown.

115,664
DESIGN FOR A SOFA OR SIMILAR ARTICLE
Charles Stoll, New York, N. Y.
Application March 10, 1939, Serial No. 83,503
Term of patent 3½ years



The ornamental design for a sofa or similar article, substantially as shown.

115,665
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Edgar Mott Bottome, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 17, 1939, Serial No. 84,332
Term of patent 3½ years



The ornamental design for a plate or similar article, substantially as shown and described.

115,666
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Edgar Mott Bottome, Moundsville, W. Va., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 17, 1939, Serial No. 84,334
Term of patent 3½ years



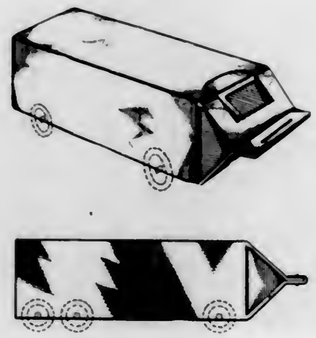
The ornamental design for a plate or similar article, substantially as shown and described.

115,667
DESIGN FOR AN OUTSIDE DOOR HANDLE OR SIMILAR ARTICLE FOR AN AUTOMOTIVE VEHICLE
George E. Curtiss, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 26, 1939, Serial No. 85,221
Term of patent 7 years



The ornamental design for an outside door handle or similar article for an automotive vehicle, substantially as shown.

115,668
DESIGN FOR A TOY VEHICLE
Rollie B. Fageol, Beverly Hills, Calif.
Application January 5, 1939, Serial No. 82,166
Term of patent 7 years



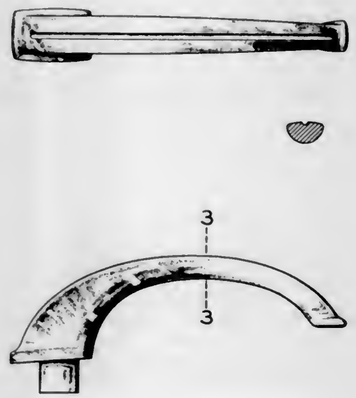
The ornamental design for a toy vehicle, as shown.

115,669
DESIGN FOR A DOLL
Edith S. Holden, New York, N. Y.
Application April 26, 1939, Serial No. 84,569
Term of patent 14 years



The ornamental design for a doll, substantially as shown.

115,670
DESIGN FOR AN OUTSIDE DOOR HANDLE OR SIMILAR ARTICLE FOR AN AUTOMOTIVE VEHICLE
Wilfred H. Hollindale, Detroit, Mich., assignor to Ternstedt Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 26, 1939, Serial No. 85,222
Term of patent 7 years



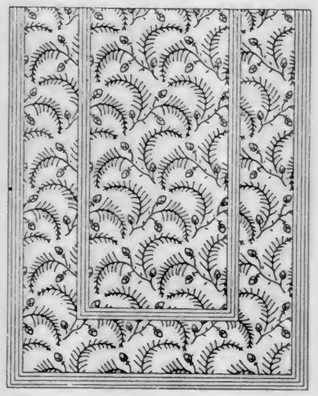
The ornamental design for an outside door handle or similar article for an automotive vehicle, substantially as shown.

115,671
DESIGN FOR A COMFORTABLE
Peter Joseph, New York, N. Y.
Application June 7, 1939, Serial No. 85,378
Term of patent 3½ years



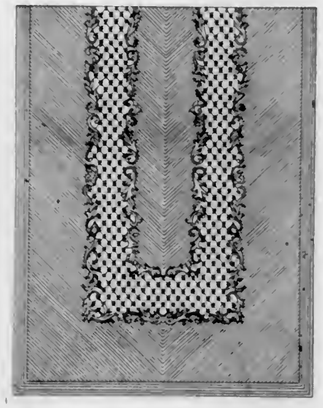
The ornamental design for a comfortable, substantially as shown.

115,672
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application May 31, 1939, Serial No. 85,266
Term of patent 3½ years



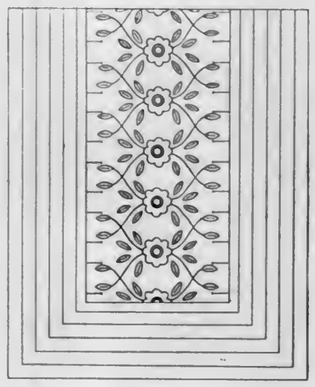
The ornamental design for a bedspread, substantially as shown.

115,673
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application June 13, 1939, Serial No. 85,464
Term of patent 3½ years



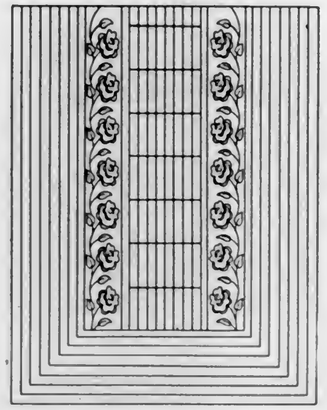
The ornamental design for a bedspread, substantially as shown.

115,674
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application June 13, 1939, Serial No. 85,466
Term of patent 3½ years



The ornamental design for a bedspread, substantially as shown.

115,675
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application June 16, 1939, Serial No. 85,528
Term of patent 3½ years



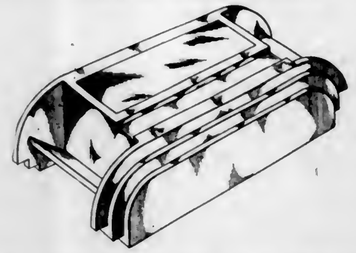
The ornamental design for a bedspread, substantially as shown.

115,676
DESIGN FOR A PANEL FOR A COMPACT OR SIMILAR ARTICLE
George Rosenberg, New Rochelle, N. Y.
Application February 6, 1939, Serial No. 82,797
Term of patent 3½ years



The ornamental design for a panel for a compact or similar article, as shown and described.

115,677
DESIGN FOR A MANICURE LAMP OR SIMILAR ARTICLE
André A. Ullmo, Cleveland Heights, Ohio
Application November 15, 1938, Serial No. 81,096
Term of patent 3½ years



The ornamental design for a manicure lamp or similar article, substantially as shown and described.

115,678
DESIGN FOR A COMBINED HAIR POMADE AND HOLDER THEREFOR
Fred M. Waite, Saranac Lake, N. Y.
Application March 20, 1939, Serial No. 83,699
Term of patent 3½ years



The ornamental design for a combined hair pomade and holder therefor, as shown.

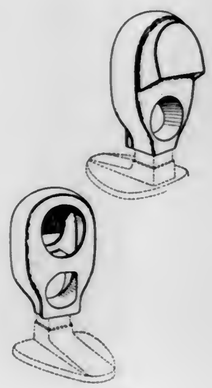
115,679
DESIGN FOR A BROOCH PIN OR SIMILAR ARTICLE
Charles Adler, New York, N. Y.
Application May 25, 1939, Serial No. 85,193
Term of patent 3½ years





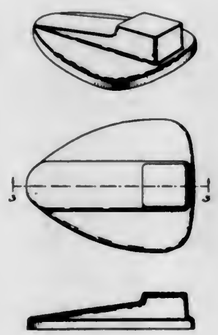
The ornamental design for a brooch pin or similar article, substantially as shown.

115,680
DESIGN FOR A COMBINED BLOWER HOUSING AND PEDESTAL FOR OIL BURNERS OR THE LIKE
Reginald W. Beckett, Elyria, Ohio
Application December 15, 1938, Serial No. 81,784
Term of patent 14 years



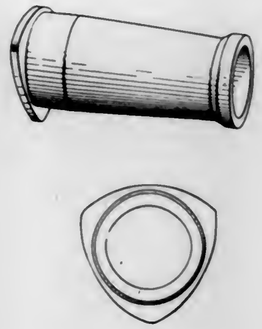
The ornamental design for a combined blower housing and pedestal for oil burners or the like, substantially as shown and described.

115,681
DESIGN FOR A PEDESTAL FOR OIL BURNERS OR THE LIKE
Reginald W. Beckett, Elyria, Ohio
Application December 15, 1938, Serial No. 81,786
Term of patent 14 years



The ornamental design for a pedestal for oil burners or the like, substantially as shown.

115,682
DESIGN FOR AN AIR TUBE FOR OIL BURNERS OR THE LIKE
Reginald W. Beckett, Elyria, Ohio
Application December 15, 1938, Serial No. 81,787
Term of patent 14 years

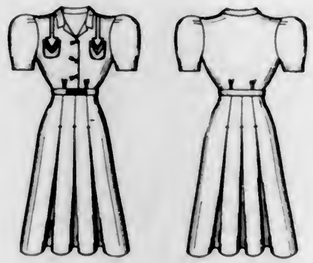


The ornamental design for an air tube for oil burners or the like, substantially as shown.

115,683
DESIGN FOR A BUILDING STRUCTURE
Kenneth E. Bemis, Oakland, Calif.
Application December 7, 1938, Serial No. 81,631
Term of patent 14 years

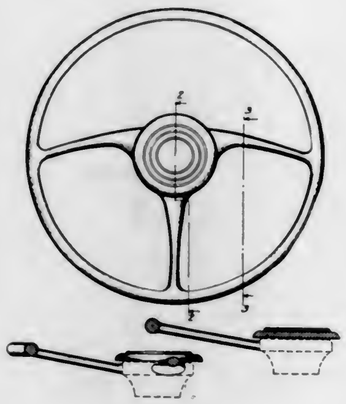
The ornamental design for a building structure, as shown and described.

115,684
DESIGN FOR A DRESS
Edna S. Brown, St. Louis, Mo.
Application May 24, 1939, Serial No. 85,180
Term of patent 3½ years



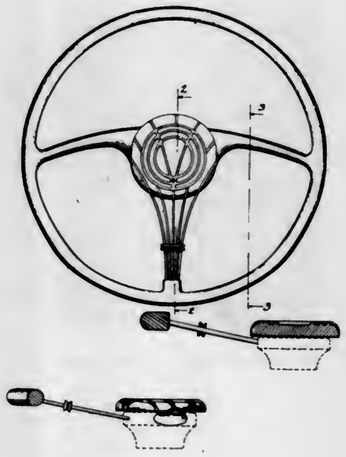
The ornamental design for a dress, substantially as shown.

115,685
DESIGN FOR AN AUTOMOTIVE STEERING WHEEL
Oswald B. Carson, Scarsdale, N. Y., assignor to American Hard Rubber Company, New York, N. Y.
Application May 16, 1938, Serial No. 77,240
Term of patent 7 years



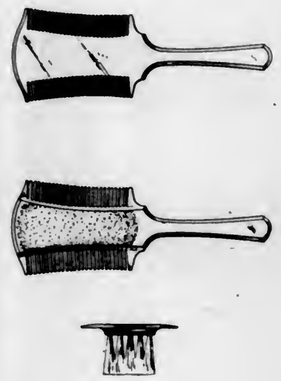
The ornamental design for an automotive steering wheel, as shown and described.

115,686
DESIGN FOR AN AUTOMOTIVE STEERING WHEEL
Oswald B. Carson, Scarsdale, N. Y., assignor to American Hard Rubber Company, New York, N. Y.
Application May 17, 1938, Serial No. 77,252
Term of patent 7 years



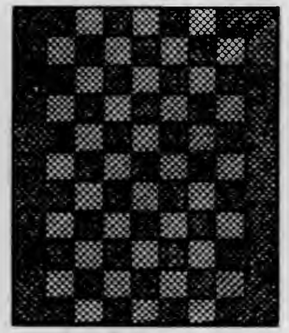
The ornamental design for an automotive steering wheel, as shown.

115,687
DESIGN FOR A COMBINED TOILET COMB AND BRUSH
Joseph Davis, Arlington, N. J.
Application May 17, 1939, Serial No. 85,050
Term of patent 14 years



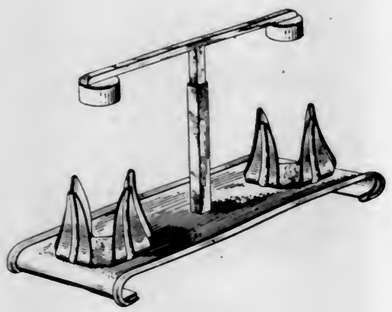
The ornamental design for a combined toilet comb and brush, as shown.

115,688
DESIGN FOR A QUILT
Julius Davis, New York, N. Y.
Application May 11, 1938, Serial No. 77,122
Term of patent 7 years



The ornamental design for a quilt, as shown and described.

115,689
DESIGN FOR A COSMETIC DISPLAY STAND
Claire Dorfman, Brooklyn, N. Y.
Application April 8, 1939, Serial No. 84,162
Term of patent 3½ years



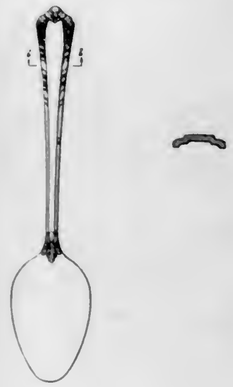
The ornamental design for a cosmetic display stand, substantially as shown.

115,690
DESIGN FOR A FLOOR MACHINE
Fay T. Kent and John Vandenberg, New York, N. Y.; said Vandenberg assignor to said Kent
Application April 28, 1939, Serial No. 84,652
Term of patent 7 years



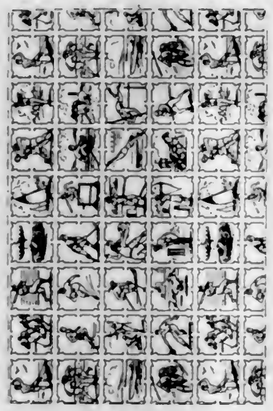
The ornamental design for a floor machine, substantially as shown and described.

115,691
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
Lawrence S. Mayers, New York, N. Y., assignor to L. & C. Mayers Company, New York, N. Y., a corporation of New York
Application June 1, 1939, Serial No. 85,280
Term of patent 14 years



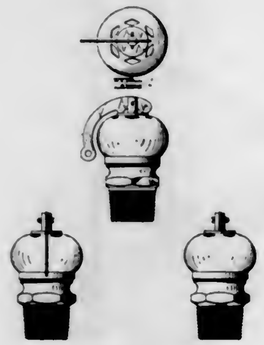
The ornamental design for a spoon or other article of flatware, substantially as shown.

115,692
DESIGN FOR SAFETY PAPER
Joseph Mehlman, Los Angeles, Calif.
Application February 6, 1939, Serial No. 82,800
Term of patent 14 years



The ornamental design for safety paper, as shown and described.

115,693
DESIGN FOR A POP VALVE
Clarence C. Mosack, Detroit, Mich., assignor to Consolidated Brass Company, Detroit, Mich., a corporation of Michigan
Application March 31, 1939, Serial No. 83,954
Term of patent 14 years



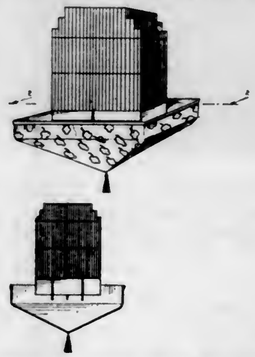
The ornamental design for a pop valve, substantially as shown.

115,694
DESIGN FOR A DRESS
Eugenia Staber, New York, N. Y.
Application May 18, 1939, Serial No. 85,073
Term of patent 7 years



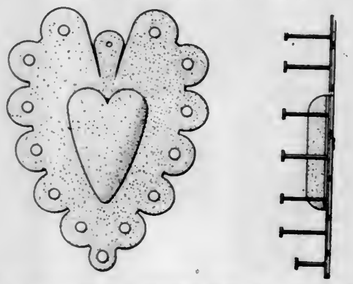
The ornamental design for a dress, substantially as shown.

115,695
DESIGN FOR A BIRD CAGE OR SIMILAR ARTICLE
Frederick Steinberg, Bronx, N. Y.
Application November 26, 1938, Serial No. 81,407
Term of patent 3½ years



The ornamental design for a bird cage or similar article, substantially as shown and described.

115,696
DESIGN FOR A COMBINED PINCUSHION AND SPOOL HOLDER
Joseph F. Uhlir, Chicago, Ill.
Application April 5, 1939, Serial No. 84,076
Term of patent 14 years



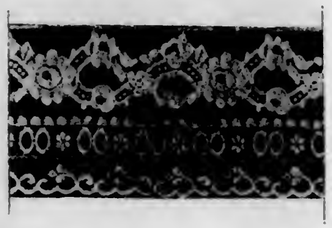
The ornamental design for a combined pincushion and spool holder, as shown.

115,697
DESIGN FOR A SHOE
Benjamin Warshauer, Stockton, Calif.
Application May 5, 1939, Serial No. 84,818
Term of patent 3½ years



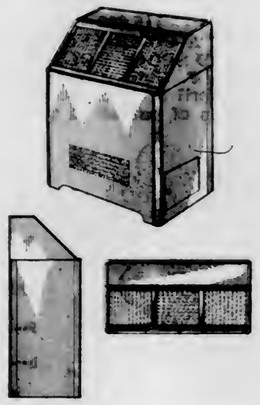
The ornamental design for a shoe, as shown and described.

115,698
DESIGN FOR A LACE
Isaac Zendman, Jr., New York, N. Y.
Application May 25, 1939, Serial No. 85,192
Term of patent 3½ years



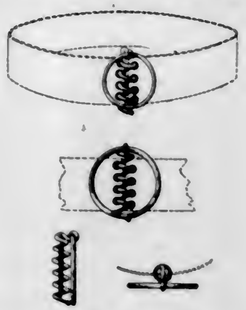
The ornamental design for a lace, substantially as shown and described.

115,699
DESIGN FOR A SPACE HEATER
Aloysius W. Becker, Chicago, Ill., assignor to Dearborn Stove Company, Chicago, Ill., a corporation of Illinois
Application February 23, 1939, Serial No. 83,153
Term of patent 3½ years



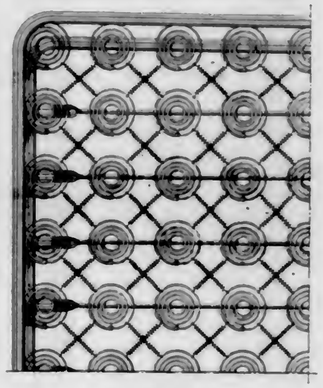
The ornamental design for a space heater, as shown and described.

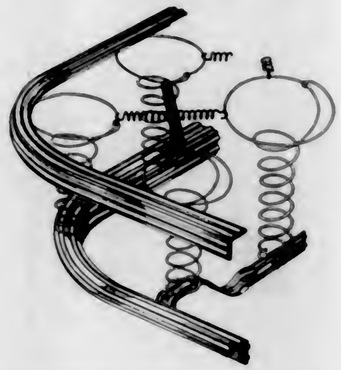
115,700
DESIGN FOR A BELT
Frederick M. Blossom, Peoria, Ill.
Application September 2, 1938, Serial No. 79,681
Term of patent 3½ years



The ornamental design for a belt, as shown and described.

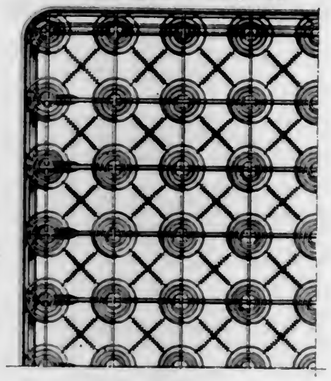
115,701
DESIGN FOR A BEDSPRING
Edward L. Bronstien, St. Paul, Minn.
Application February 29, 1936, Serial No. 61,428
Term of patent 14 years

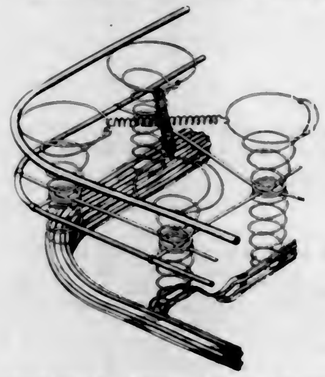




The ornamental design for a bedspring, as shown and described.

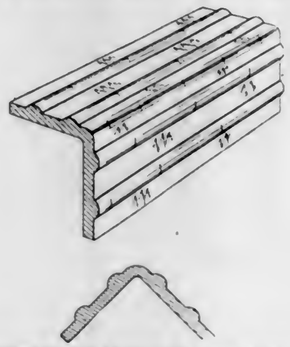
115,702
DESIGN FOR A BEDSPRING
Edward L. Bronstien, St. Paul, Minn.
Application February 29, 1936, Serial No. 61,429
Term of patent 14 years





The ornamental design for a bedspring, as shown and described.

115,703
DESIGN FOR AN ANGLE IRON
Edward L. Bronstien, St. Paul, Minn.
Original application February 29, 1936, Serial No. 61,428. Divided and this application March 21, 1939, Serial No. 83,730. Term of patent 14 years



The ornamental design for an angle iron, as shown and described.

115,704
DESIGN FOR A HAT
Lulu A. Johnson, New York, N. Y.
Application January 19, 1939, Serial No. 82,434
Term of patent 3½ years



The ornamental design for a hat, substantially as shown and described.

115,705
DESIGN FOR A BRASSIÈRE OR SIMILAR ARTICLE
George A. Kaufmann, Essex Fells, N. J., assignor to The H & W Company, Inc., Newark, N. J., a corporation of New Jersey
Application May 31, 1939, Serial No. 85,259
Term of patent 7 years



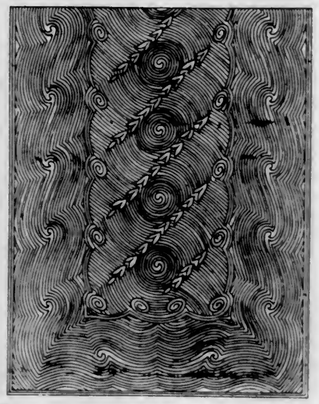
The ornamental design for a brassière or similar article, as shown.

115,706
DESIGN FOR A BEDSPREAD
Adolph Fassler, Pelham, N. Y., assignor to Harriette A. Lawson, Signal Mountain, Tenn.
Application June 6, 1939, Serial No. 85,361
Term of patent 3½ years



The ornamental design for a bedspread, substantially as shown.

115,707
DESIGN FOR A BEDSPREAD
Adolph Fassler, Pelham, N. Y., assignor to Harriette A. Lawson, Signal Mountain, Tenn.
Application June 6, 1939, Serial No. 85,362
Term of patent 3½ years



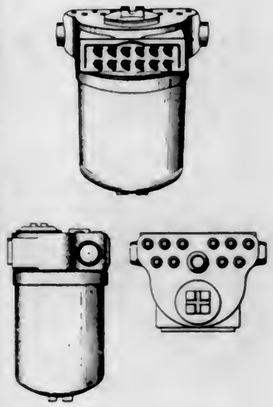
The ornamental design for a bedspread, substantially as shown.

115,708
DESIGN FOR A COMBINED ELECTRIC SWITCH PLATE ATTACHMENT AND CALENDAR
Harry M. Kidd, El Paso, Tex.
Application October 29, 1938, Serial No. 80,765
Term of patent 3½ years



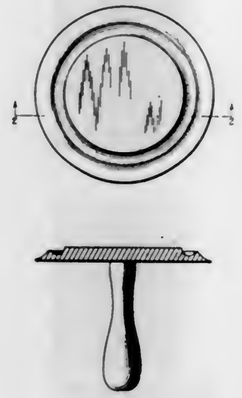
The ornamental design for a combined electric switch plate attachment and calendar, substantially as shown.

115,709
DESIGN FOR AN ENCLOSED HOUSING FOR ELECTRICAL APPARATUS
Raymond H. Olley, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application March 8, 1939, Serial No. 83,443
Term of patent 14 years



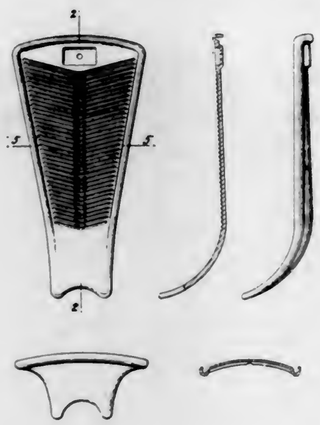
The ornamental design for an enclosed housing for electrical apparatus, as shown.

115,710
DESIGN FOR A HAIRPIN HOLDER
Lessie Hammonds, Fort Worth, Tex.
Application October 8, 1938, Serial No. 80,333
Term of patent 3½ years



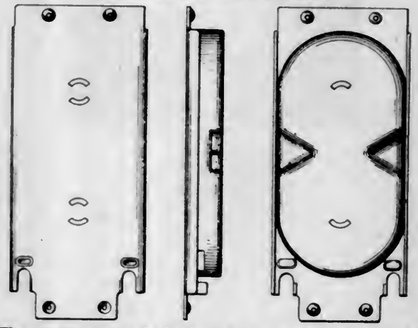
The ornamental design for a hairpin holder, substantially as shown.

115,711
DESIGN FOR A WASHBOARD
Maude L. Irwin, Alameda, Calif.
Application February 18, 1939, Serial No. 83,071
Term of patent 14 years



The ornamental design for a washboard, as shown.

115,712
DESIGN FOR A SPRING SASH BALANCE HOUSING
Albert Herman Kersting, deceased, late of Los Angeles, Calif., by Nelle Frances Kersting, Los Angeles, Calif., executrix
Application May 4, 1939, Serial No. 84,795
Term of patent 14 years



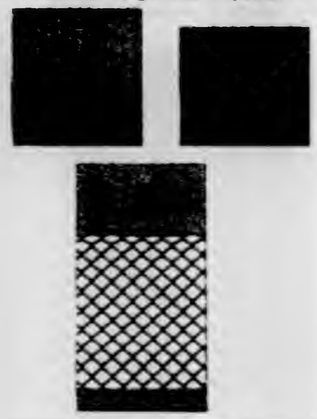
The ornamental design for a spring sash balance housing, as shown.

115,713
DESIGN FOR AN ELASTIC FABRIC
Kurt Kaak, West Wyomissing, Pa., assignor to The Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania
Application May 2, 1939, Serial No. 84,724
Term of patent 7 years



The ornamental design for an elastic fabric, as shown and described.

115,714
DESIGN FOR AN ELASTIC FABRIC
Kurt Kaak, West Wyomissing, Pa., assignor to The Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania
Application May 2, 1939, Serial No. 84,725
Term of patent 7 years



The ornamental design for an elastic fabric, as shown and described.

115,715
DESIGN FOR AN ELASTIC FABRIC
Kurt Kaak, West Wyomissing, Pa., assignor to The Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania
Application May 10, 1939, Serial No. 84,895
Term of patent 7 years



The ornamental design for an elastic fabric, as shown and described.

115,716
DESIGN FOR AN ELASTIC FABRIC
Kurt Kaak, West Wyomissing, Pa., assignor to The Narrow Fabric Company, West Reading, Pa., a corporation of Pennsylvania
Application May 16, 1939, Serial No. 85,011
Term of patent 7 years



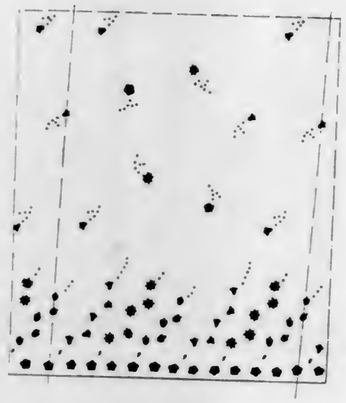
The ornamental design for an elastic fabric, as shown and described.

115,717
DESIGN FOR A PAIR OF SEMIRIM SPECTACLES
George P. Kimmel, Brookeville, Md.
Application July 8, 1938, Serial No. 78,350
Term of patent 14 years



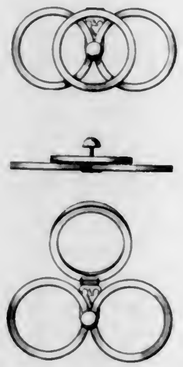
The ornamental design for a pair of semirim spectacles, as shown and described.

115,718
DESIGN FOR A TEXTILE FABRIC
Louis B. Fisch, Brooklyn, N. Y.
Application May 19, 1939, Serial No. 85,077
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

115,719
DESIGN FOR A BUCKLE OR SIMILAR ARTICLE
Harry Miller and Pierre Marcello, New York, N. Y.
Application May 23, 1939, Serial No. 85,142
Term of patent 3½ years



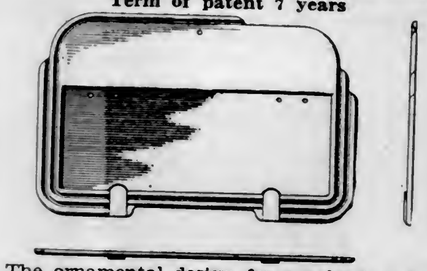
The ornamental design for a buckle or similar article, substantially as shown.

115,720
DESIGN FOR A BUCKLE OR SIMILAR ARTICLE
Harry Miller and Pierre Marcello, New York, N. Y.
Application May 23, 1939, Serial No. 85,143
Term of patent 3½ years



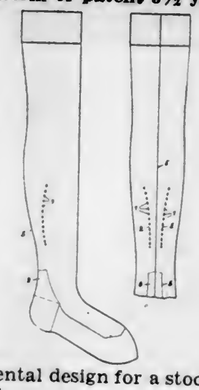
The ornamental design for a buckle or similar article, substantially as shown.

115,721
DESIGN FOR A CALENDAR STAND
Carlyle N. Montanye, Baltimore, Md.
Application May 4, 1939, Serial No. 84,801
Term of patent 7 years



The ornamental design for a calendar stand, as shown.

115,722
DESIGN FOR A STOCKING
Hans Thierfelder, Auerbach in Erzgebirge, Germany
Application December 29, 1938, Serial No. 82,031
In Germany April 6 and 24, 1938
Term of patent 3½ years



The ornamental design for a stocking, as shown and described.

115,723
DESIGN FOR A TEXTILE FABRIC
Louis Bry, New York, N. Y.
Application May 17, 1939, Serial No. 85,037
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown.

115,724
DESIGN FOR A TEXTILE FABRIC
Louis Bry, New York, N. Y.
Application May 24, 1939, Serial No. 85,178
Term of patent 3½ years



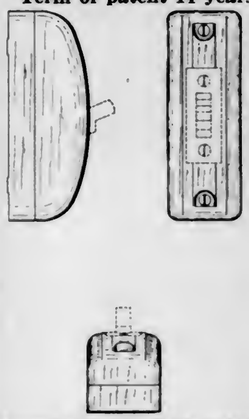
The ornamental design for a textile fabric, substantially as shown and described.

115,725
DESIGN FOR A TEXTILE FABRIC
Albert Y. Toriumi, Honolulu, Territory of Hawaii, assignor to Japan Merchandise Company of Honolulu, Honolulu, Territory of Hawaii
Application July 9, 1938, Serial No. 78,379
Term of patent 7 years



The ornamental design for a textile fabric, substantially as shown.

115,726
DESIGN FOR AN ELECTRICAL WIRING BOX OR SIMILAR ARTICLE
Lee H. Peck, Chagrin Falls, Ohio, assignor to Porcelain Products, Inc., Findlay, Ohio, a corporation of Ohio
Application December 8, 1938, Serial No. 81,635
Term of patent 14 years



The ornamental design for an electrical wiring box or similar article, as shown and described.

Patents Nos. 2,166,102 to 2,166,926

THE OFFICIAL GAZETTE OF THE United States Patent Office

Vol. 504—No. 3 TUESDAY, JULY 18, 1939 Price—$16 per year

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CONTENTS

	Page
ISSUE OF JULY 18, 1939	581
TRADE-MARKS CANCELED	581
INTERNATIONAL CONVENTION—ADHESION	581
ADJUDICATED PATENTS	581
NOTICE OF CANCELLATION	581
APPLICANT'S ADDRESS	581
APPLICATIONS UNDER EXAMINATION	582
DECISIONS OF THE U. S. COURTS— Hogue v. Cowling, and Little and Loewenstein; Cowling v. Hogue, and Little and Loewenstein; Hogue v. Little and Loewenstein, and Cowling; Little and Loewenstein v. Cowling and Hogue	583
PATENT SUITS	589
DISCLAIMERS	590
TRADE-MARKS PUBLISHED (172 APPLICATIONS)	591
TRADE-MARK REGISTRATIONS GRANTED	611
TRADE-MARK REGISTRATIONS RENEWED	622
LABELS	623
PRINTS	625
REISSUES	627
PLANT PATENTS	628
PATENTS GRANTED	629
DESIGNS	819

July 18, 1939

Trade-Marks	277—No.	369,104 to No.	369,380, inclusive
T. M. Renewals	28		
Labels	41—No.	53,264 to No.	53,304, inclusive.
Prints	24—No.	17,493 to No.	17,516, inclusive.
Reissues	6—No	21,151 to No.	21,156, inclusive.
Plant Patent	1—No.	335	
Patents	825—No.	2,166,102 to No.	2,166,926, inclusive.
Designs	100—No.	115,727 to No.	115,826, inclusive.
Total	1,302		

Trade-Mark Registrations Canceled

150,302. Nonalcoholic, noncereal, maltless beverage. Coca Cola Bottling Distributing Co., Los Angeles, Calif. Registered January 3, 1922. Canceled June 15, 1939.

159,485. Certain named medicinal, chemical, and pharmaceutical preparations. David Quateman, Chicago, Ill. Registered September 26, 1922. Canceled June 23, 1939.

175,215. Shirts. Mallory Shirt Co., Inc., New York, N. Y. Registered October 30, 1923. Canceled June 23, 1939.

175,924. Hosiery. Tex-Craft Company, Reading, Pa. Registered November 13, 1923. Canceled June 15, 1939.

312,328. Whiskey and other potable distilled spirits. Hoosier Distillery Co., Schenley, Pa., and New York, N. Y. Registered April 24, 1934. Canceled June 23, 1939.

316,845. Wines. S. A. Distillerie Colombo, Cardano al Campo, Italy. Registered September 4, 1934. Canceled June 23, 1939.

328,833. Shirts. F. R. Tripler & Co., Inc., New York, N. Y. Registered October 8, 1935. Canceled June 15, 1939.

Adjudicated Patents

(D. C. Calif.) Woock patent, No. 1,907,026, for method of adjusting a tire retreading mold to different sizes of tires, *Held* not infringed. *Supermold Corporation of America v. American Tire Machinery Co.*, 27 F. Supp. 385.

(D. C. Calif.) Woock patent, No. 1,928,404, for method and apparatus for retreading tires, claims 8 and 9 *Held* invalid. *Id.*

International Convention—Adhesion

Tangier Zone

This Office has been notified by the State Department of the receipt of a notice from the Swiss Legation that the Sherifian Empire has adhered, for the Tangier Zone, to the Convention of the Union for the Protection of Industrial Property of March 20, 1883, as revised at London on June 2, 1934, the adherence to take effect from June 13, 1939.

CONWAY P. COE,
Commissioner of Patents.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., June 19, 1939.*

Central Candy Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Penick & Ford, Ltd., Incorporated, 420 Lexington Avenue, New York, N. Y., to effect the cancellation of trade-mark registration No. 215,823, issued July 27, 1926, to Central Candy Co., Waco, Tex., and a notice of such proceeding sent by registered mail to said Central Candy Co. at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Central Candy Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Applicant's Address

The requirement of Rule 33, that the post-office address of the applicant must be stated in the petition, means that the applicant must give the post-office address at which he customarily receives his mail.

The rule was made in order that the Office in necessary cases might correspond directly with the applicant and not through his attorney. The address of the attorney with instructions to send communications to the applicant in his care will not be accepted as a compliance with this rule.

Condition of Applications Under Examination at Close of Business June 30, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 42,985; Trade-Mark Division, 1,379. Oldest new case, Nov. 7, 1938; oldest amended, Nov. 2, 1938.)
(The dates given are 1939 except where † indicates 1938)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Feb. 7	Feb. 11	683
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Jan. 28	Feb. 4	689
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 1	May 1	411
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Mar. 31	Mar. 15	457
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Apr. 5	Apr. 7	472
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Jan. 13	Jan. 23	988
5725	7. JARBOE, C. G., Optics; Photography	Mar. 20	Mar. 13	906
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	†Dec. 21	Jan. 16	1130
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 2	Mar. 1	713
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Mar. 16	Mar. 22	591
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 23	Feb. 25	441
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Jan. 3	†Dec. 22	572
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Jan. 26	Jan. 26	652
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Apr. 24	Apr. 19	446
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Feb. 14	Feb. 14	1184
5716	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 11	Feb. 3	797
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Feb. 24	Mar. 4	514
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Jan. 6	Jan. 11	548
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Mar. 9	Mar. 23	390
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Apr. 5	Apr. 4	370
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 1	Feb. 23	523
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Feb. 2	Feb. 2	903
7624	23. BUTTNER, W. J., Registers (part)	Jan. 10	Jan. 5	276
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Jan. 5	Jan. 4	1148
5709	25. BLAKELY, C. F., Classifying Solids Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Mar. 31	Mar. 31	448
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Feb. 6	Feb. 8	613
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Dec. 16	†Dec. 9	1220
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Feb. 27	Mar. 10	438
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Feb. 7	760
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Feb. 2	Feb. 2	832
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Mar. 31	Mar. 24	644
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Apr. 1	Mar. 27	381
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Apr. 11	Apr. 5	676
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Apr. 6	Apr. 3	349
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 21	Mar. 24	548
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Jan. 17	Feb. 1	569
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 3	Apr. 1	609
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Jan. 3	†Dec. 30	724
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 3	Mar. 10	588
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Feb. 3	Feb. 3	1479
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Jan. 16	Jan. 17	332
5882	42. CUTTING, H. O., Electric Signaling	Jan. 6	†Dec. 6	608
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Mar. 8	Mar. 8	537
4087 B	44. HARVEY, L. P., Refrigeration	Jan. 28	Feb. 1	655
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Mar. 25	Mar. 18	563
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Feb. 2	Feb. 6	707
6082	47. LOWE, E. R., Clutches; Brakes	Mar. 9	Mar. 8	400
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 5	Apr. 6	424
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Jan. 5	Jan. 3	1078
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Jan. 3	Jan. 3	1217
5628	51. BACKUS, C. D., Radiant Energy (part)	Apr. 5	Apr. 5	690
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Feb. 18	Feb. 28	781
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Mar. 9	Mar. 15	523
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 23	Mar. 23	324
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Jan. 5	Jan. 3	682
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Jan. 30	Jan. 30	1180
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Mar. 7	Apr. 17	449
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Mar. 13	Mar. 20	387
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Mar. 7	Mar. 9	557
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Mar. 2	Mar. 2	437
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Feb. 3	Feb. 2	512
5621	62. PUGH, E. C., Games; Geometrical Instruments	Apr. 26	Apr. 25	451
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Jan. 4	Jan. 11	643
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Mar. 8	Mar. 9	814
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Feb. 8	Feb. 6	582
2099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND — Trade-Marks	May 29	June 13	1311
	Labels and Prints	June 28	June 26	68
2605	Designs: H. H. KALUPY	May 22	May 20	770

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

HOGUE *v.* COWLING, AND LITTLE AND LOEWENSTEIN
COWLING *v.* HOGUE, AND LITTLE AND LOEWENSTEIN
HOGUE *v.* LITTLE AND LOEWENSTEIN, AND COWLING
LITTLE AND LOEWENSTEIN *v.* COWLING AND HOGUE

Nos. 4,010, 4,011, 4,012, and 4,013. Decided February 6, 1939

[101 F.(2d) 541]

1. INTERFERENCE—PRIORITY.
Record reviewed and *Held* priority as to count 1 properly awarded to C who was shown to have conceived the invention and reduced it to practice prior to its conception by the senior party H and the party L and L.

2. SAME—SAME.
Record reviewed and *Held* priority as to count 2 properly awarded to the senior party H who was shown to have reduced the invention to practice prior to any date of conception to which either C or L and L were entitled.

3. SAME—PATENTABILITY OF CLAIMS NOT CONSIDERED BY COURT.
"It is elementary that in interference proceedings the patentability of claims constituting the counts in issue will not be considered by this court, the jurisdiction of the court in such proceedings being limited to the question of priority of invention and to such ancillary questions as may be involved therein."

4. SAME—MOTION TO DISSOLVE—FAILURE TO FILE DURING MOTION PERIOD.
Where L and L failed to file a motion during the motion period to dissolve the interference as to the party H on the ground of inoperativeness of the apparatus disclosed in his application, and no satisfactory reason was given for such failure, *Held* that the refusal of the tribunals of the Patent Office to consider the evidence relative to the operativeness of H's commercial devices, which are substantially identical with the disclosure in his involved application, was not error.

5. SAME—LACHES.
Where C had reduced the invention to practice before L and L entered the field and no claim was made that C had abandoned, suppressed, or concealed the invention, *Held* the fact that C did not file his application until approximately 1½ years after his claimed date of conception does not warrant a holding that C is chargeable with laches.

APPEAL from Patent Office. Affirmed.

Mr. Charles A. Morton for Hogue.

Mr. Richard J. Cowling pro se.

Mr. Henry Blech (*Mr. L. Loewenstein* of counsel) for Little and Loewenstein.

HATFIELD, *J.*:

These are appeals in an interference proceeding from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner of Interferences awarding priority of the inventions defined in the counts in issue—counts 1 and 2—as follows: Count 1 to Richard J. Cowling and count 2 to James E. Hogue.

The interference involves three parties—James E. Hogue, Richard J. Cowling, and the alleged joint inventors Kenneth B. Little and Ludwig Loewenstein. In appeal No. 4,010 appellant Hogue appealed from the decision of the Board of Appeals awarding priority of the invention defined in count 1 to Richard J. Cowling. In appeal No. 4,011 appellant Richard J. Cowling appealed from the decision of the Board of Appeals awarding priority of the invention defined in count 2 to James E. Hogue. Appeal No. 4,012 is in the nature of a cross-appeal by the party Hogue to appeal No. 4,013 by the parties Little and Loewenstein. Appeal No. 4,013 is an appeal by the parties Little and Loewenstein from the decision of the Board of Appeals awarding priority of the invention defined in count 1 to Richard J. Cowling, and priority of the invention defined in count 2 to James E. Hogue.

There is but one record, the appeals having been consolidated for the purpose of the hearing in this court. Accordingly, we shall dispose of the issues involved in the four appeals in one opinion.

The interference is between the application of the party Hogue, Serial No. 608,808, filed May 2, 1932, the application of the party Cowling, Serial No. 640,217, filed October 29, 1932, and the application of the parties Little and Loewenstein, Serial No. 615,153, filed June 3, 1932.

The party Hogue is the senior party, and the burden was upon the junior parties to establish priority of invention by a preponderance of the evidence.

The counts in issue read:

1. A confection making apparatus comprising a mold having a plurality of mold cavities for the reception of the confection material and means for removing the material from the mold cavities, said means consisting of a portable carrier adapted to be supported above said mold cavities, rods depending from said carrier and spaced thereon so that a rod is engageable in each mold cavity when the carrier is supported thereabove, said carrier being removable from said mold cavities with the confection congealed on the rods, and stripper means slidably mounted on said rods for simultaneously stripping said confections from said rods when the carrier is removed from the mold cavities.

2. The method of molding and handling individual frozen confections which consists in placing the confection material to be frozen in a plurality of mold cavities, placing a rod in each mold cavity so that the lower portion of the rod is immersed in the confection material, freezing the confection material whereby it becomes bonded to the rods and to the mold walls, breaking the bond between the mold walls and the confection material, simultaneously withdrawing all the rods with a molded confection congealed on each rod and simultaneously exerting pressure on the tops of the confections for forcing them from the rods in a single operation.

The Examiner of Interferences and the Board of Appeals each stated and analyzed the evidence relative to the activities of the party Hogue in July or August and November, 1930, in considerable detail. With regard thereto, the Examiner of Interferences said:

At that time it is alleged that Hogue first constructed a three cavity mold of cardboard and prepared a wire lifting device which, when placed across the top of the mold, had depending portions extending within the mold cavities. In conjunction with this molding device there was used a combination wire and cardboard stripping member of general fork-shaped construction. After ice cream had been placed in the mold cavities and frozen to the twisted wires of the lifting device the mold was defrosted by placing in a pan of water, the three confections simultaneously removed by raising the wire lifting device and stripped therefrom by pressing the stripping fork against the top of the confections. Exhibits 3 to 6 are alleged to be replicas of this initial device. Such equipment was built by Hogue and tested in his home in Hot Springs, Ark., in the summer of 1930.

Corroboration of this testimony is obtained from Mrs. Hogue who witnessed her husband's experiments and who testified that at the time they took place her baby daughter [born Mar. 17, 1930] was just learning to crawl * * *. It has been suggested in the opposing briefs that a confusion of one year might easily have taken place and that the true date was 1931. Nothing is found in the record to justify this conclusion. It may be noted that it is far more probable that a baby would be just learning to crawl at the age of five months rather than at seventeen months. Mrs. Hogue is clearly competent to testify in these proceedings. See *Patee* v. *Cook*, 107 O. G. 835, 1903 C. D. 446.

This early device was further demonstrated to Mrs. Hogue and the witnesses Melton and Zorub on Thanksgiving Day, 1930. While these witnesses appear to have been somewhat uncertain as to some dates to which they testified, it is believed that their testimony must be correct in this instance. A considerable amount of additional evidence points to this conclusion. The demonstration is said to have taken place at Hogue's residence in Hot Springs, Ark. In November, 1931, Hogue and his wife were living in Edinburg, Tex., having moved there in August, 1931. The tinsmith Bullard testified that he made up a forty cavity mold in September or October of 1931 [identified in the record as Hogue's Exhibit No. 9], which was seen by Hagedorn and Winder at about that time and there is documentary evidence of the existence of apparatus capable of demonstration on a commercial scale early in November, 1931, as shown by Hogue Exhibit 13. In view of this evidence it is difficult to believe that the demonstration to which Zorub and Melton testified could have taken place in 1931.

In its decision, the Board of Appeals restated the facts relative to appellant Hogue's activities in 1930 and 1931 substantially as stated in the quoted excerpt from the decision of the Examiner of Interferences.

The tribunals of the Patent Office concurred in holding that the evidence introduced by appellant Hogue was sufficient to establish conception and reduction to practice of the invention defined in method count 2 as early as November 28, 1930. The Examiner of Interferences held, however, in which holding the Board of Appeals concurred, that the device, of which Hogue's Exhibits Nos. 3 to 6, inclusive, are representative, which the party Hogue devised in August, 1930, and demonstrated to Mrs. Hogue during that month, and again demonstrated to Mrs. Hogue and the witnesses Melton and Zorub on Thanksgiving Day, 1930, did not conform to the apparatus defined in count 1.

In this connection, the Examiner of Interferences said:

It is the contention of the party Hogue that the wording of count 1 is sufficiently broad to be satisfied by a structure such as he had devised in 1930. This is not believed to be the case. The count definitely calls for a stripping mechanism which shall be slidably mounted on the rods which depend in the mold cavities. Even when the stripping fork, such as Exhibits 5 and 6, is placed in operative position with relation to the confection rods of Exhibit 4, it cannot be said to be mounted thereon. The stripping fork is in no way supported by the lifting rack or the confection rods and does not even extend completely around the latter. Since such a structure is not believed to have any bearing on count 1, Hogue's activities with respect to the tin molds constructed during 1931 and the advertising literature prepared in connection therewith need be given no consideration.

The party Hogue testified that he conceived an improved device during the latter part of December, 1931. Such improved device was described by him to his stepfather, the witness Frisby, early in January, 1932, and it appears that some time during the latter part of January or the first part of February of that year the witness Bullard constructed such a device, which was tested shortly after its completion by the witness Winder at the Golden Jersey Creamery Company's plant in Edinburg, Tex. Hogue contends that the device so constructed and tested was used as a model for the construction of commercial devices (Hogue's Exhibits Nos. 35, 36, and 37) in Chicago, Ill., some time during the summer of 1932.

Considerable evidence was introduced in rebuttal by the parties Little and Loewenstein, and in surrebuttal by the party Hogue, relative to the operativeness of the commercial devices constructed by the party Hogue in the summer of 1932. The pertinency of that evidence will be discussed in Appeal No. 4,013.

It was stipulated by the parties on the trial below that the party Hogue's Exhibits Nos. 23, 24, and 25 were received in the office of Clarence A. O'Brien, Hogue's patent attorney, on March 21, 1932.

Exhibit No. 23 is a letter, dated March 18, 1932, addressed to Mr. Clarence A. O'Brien, and signed by the party Hogue. Reference is made therein to previous correspondence relative to the party Hogue's earlier activities, to sketches (Hogue's Exhibit No. 24) which were enclosed therewith, and to the fact that those sketches showed changes from the structure shown in Hogue's Exhibit No. 25, which illustrates his Exhibits Nos. 3 to 6, inclusive, 9, 10, and 11.

In describing his improved device shown in the pencil sketches (Exhibit No. 24), Hogue stated in his letter (Exhibit No. 23) that—

An attachment to the lifting device eleminates [eliminates] the holding fork as shown on the folder. The attachment is simply a rectangular piece of tin, with thirty-six small holes for the wire projections on the lifting device, to go thru. On each end of this sheet of tin is a wire latch (which also serves as a handle) this latch goes up thru or between the two center rows of wire projections and latches over the handles of the lifting device, holding the sheet of tin or metal close up to the frame work of the lifting device. In operation, when these latches are thrown back, the sheet drops down, it[s] weight breaking loose the ice cream which is frozen around the wire projections. This sheet will not drop entirely off the lifting device, but just down sufficiently far to cause the units of ice cream to easily slide off, the latch catches again on the center bars of the frame before the sheet clears the ends of the wire projections. This makes the device easy to handle and go back in place so that the operation can be repeated rapidly and as many times in succession as necessary. The sheet can be taken entirely off for cleaning by springing the wire latches a little as is done when it is put on.

Hogue's Exhibit No. 24 consists of pencil sketches of an apparatus, which, as held by the tribunals of the Patent Office, corresponds to the apparatus disclosed in the party Hogue's involved application and defined in count 1.

It appears from the record that Hogue's attorney commenced the preparation of his patent application shortly after the receipt (Mar. 21, 1932) of Exhibits Nos. 23, 24, and 25, and completed it on April 13, 1932. The application was executed by the party Hogue on April 27, 1932, and filed in the Patent Office on May 2 of that year. In view of those facts, the tribunals of the Patent Office concurred in awarding the party Hogue March 21, 1932, for conception of the invention defined in count 1, and May 2, 1932 (the date of the filing of his application) for constructive reduction of it to practice.

The parties Little and Loewenstein alleged in their preliminary statements that they conceived the inventions defined in the appealed counts on April 16, 1932; that they disclosed them to others on April 18, 1932, and successfully reduced them to practice on or about May 5, 1932. Their application was filed June 3, 1932.

It appears from the record that, on August 1, 1934, Little and Loewenstein submitted their evidence in chief, and on May 17 and 18, 1935, they submitted evidence in rebuttal. A considerable portion of that evidence relates to the construction of a device in accordance with certain blueprints (Little and Loewenstein Exhibits Nos. 3 to 9, inclusive).

It appears from the decision of the Examiner of Interferences that—

"At the termination of the taking of testimony Little and Loewenstein filed motions for leave to amend their preliminary statement and to have certain testimony, taken on May 17, 1935, stand as a part of their testimony in chief."

The motions were overruled by the Examiner of Interferences, and his decision was affirmed by the Board of Appeals.

The correctness of the decision of the Board of Appeals affirming the decision of the Examiner of Interferences overruling those motions is challenged by counsel for Little and Loewenstein in Appeal No. 4,013. That issue will be hereinafter considered. It may be said at this point, however, that, according to the briefs of their counsel, the evidence introduced in rebuttal by Little and Loewenstein establishes that the invention was reduced to practice by them on April 29, 1932, and, it is stated, that the motions were filed so that those parties might be awarded that date for actual reduction to practice.

The party Cowling alleged in his preliminary statements that he conceived the inventions defined in the appealed counts on or about May 4, 1931; that on May 7, 1931, he first made drawings and a written description of the inventions and, on the same day, explained them to others; and that on or about October 15, 1931, he embodied the invention defined in count 1 in a full-size machine, which was successfully operated on that date in the city of South Pasadena, Calif.

During the taking of his testimony, the party Cowling prepared a drawing (Cowling Exhibit No. 16), which he stated was identical with his conception in May, 1931. He further stated that on May 7, 1931, a sketch similar to his Exhibit No. 16 was disclosed to one Morris Hirsch, a patent attorney. Thereupon, it was stipulated by counsel for each of the parties here involved that if—

"Mr. Hirsch were called as a witness in this case, he would testify that Mr. Cowling made a disclosure to him in the form of a sketch substantially as shown in Exhibit No. 16; and that Mr. Hirsch has made a diligent search for the original sketch but has been unable to locate same; and that such sketch was made at a conference between Messrs. Cowling and Hirsch on May 7, 1931; * * * and that Mr. Hirsch at the time understood the operation of the device disclosed in the sketch of which Exhibit No. 16 is a copy."

Cowling's Exhibit No. 16, although a more or less crude sketch, discloses the various elements in apparatus count 1, except a mold having a plurality of mold cavities, which, according to the record, was old and in use prior to May 7, 1931.

The tribunals of the Patent Office concurred in holding that Cowling's Exhibit No. 16 was a sufficient disclosure of each of the counts in issue, and, accordingly, awarded the party Cowling May 7, 1931, for conception of the method defined in count 2 and the apparatus defined in count 1.

Relative to the method count, the Examiner of Interferences said:

Since the steps of filling mold with soft ice cream, freezing it until hard and subsequently dipping the mold in warm water to release the frozen article were common practice in the ice cream industry long prior to this date, it is believed obvious that the normal use of the device disclosed in Exhibit 16 would result in the performance of the method recited by count 2 of this interference.

It appears that on May 7, 1931, the party Cowling wrote a letter (Cowling Exhibit No. 6) to one J. V. Cariffe, manager of the Alaska Sucker Company, St. Louis, Mo., which exhibit has no particular bearing on the activities of the party Cowling, except that attached to it is Cowling's Exhibit No. 7, which the witness Cariffe testified was enclosed with Exhibit No. 6 and was received by him on May 9, 1931. Cariffe further testified that the initials and the date appearing on Exhibit No. 7 (J. V. C., 5/9/31) were inscribed by him on that date. Except for the inscription by Cariffe, the exhibit is not dated. It is a typewritten document with the typewritten initials of the party Cowling (R. J. C.) appearing thereon. A structure similar to that disclosed in Cowling's Exhibit No. 16 is described therein.

The witness Cariffe testified that he built a device corresponding to the structure described in Cowling's Exhibit No. 7; that such device operated satisfactorily; and that shortly after he had completed and operated it he was assigned to field duty and had no opportunity to perform any further experiments until October, 1931, at which time he was located in South Pasadena, Calif., at the plant of the Popsicle Service of California, Ltd.

It appears from Cowling's Exhibit No. 17, which is a payroll record of the Popsicle Service of California, Ltd., for the week ending October 22, 1931, that the witness Cariffe was in the employ of that company at its South Pasadena plant on October 18 of that year.

It further appears from the testimony of the witnesses Cariffe (who entered upon his duties as manager of the Popsicle Service of California, Ltd.'s plant at South Pasadena, Calif., on October 18, 1931), Robert F. Eddy (assistant manager of that plant), and Jacques A. Veltman (Pacific coast manager of that company) that immediately after the arrival of Cariffe at the South Pasadena plant two devices corresponding to the disclosures of the party Cowling were constructed and successfully operated. One of those devices was introduced in evidence as Cowling's Exhibit No. 18. That exhibit was used in the latter part of October and the early part of November, 1931, in conjunction with Cowling's Exhibit No. 19, which is a mold having a plurality of mold cavities and which had been in use in the South Pasadena plant prior to the construction of Exhibit No. 18. Although Exhibit No. 18 is a somewhat crude device, it is clear from an examination of it that, when used in conjunction with Exhibit No. 19, it would, and, according to the testimony, did, operate successfully. The combined devices,

Exhibits Nos. 18 and 19, clearly correspond to the apparatus defined in count 1.

We have not attempted to detail here all of the evidence relative to the activities of the parties in this interference. To do so would unduly extend this opinion.

The tribunals of the Patent Office concurred in holding that the party Hogue had established conception and reduction to practice of the invention defined in method count 2 as early as November 28, 1930, and that, as the party Cowling had not established conception of the invention defined in that count prior to May 7, 1931, and as the parties Little and Loewenstein did not allege in their preliminary statement a date of conception of the invention prior to April 16, 1932, the party Hogue was entitled to an award of priority of the invention defined in that count.

As to count 1, the tribunals of the Patent Office concurred in holding that the structure which the party Hogue devised and operated as early as November 28, 1930, did not conform to the structure defined therein; that the party Cowling was entitled to the latter part of October or the first part of November, 1931, for reduction to practice of the invention defined in that count; and that, as the party Hogue did not conceive the invention prior to the latter part of December, 1931, or early part of January, 1932, and as the parties Little and Loewenstein did not claim in their preliminary statement conception of the invention defined in that count prior to April 16, 1932, the party Cowling was entitled to an award of priority of the invention defined in that count.

Appeal No. 4,010

In Appeal No. 4,010 appellant Hogue appeals from the decision of the Board of Appeals awarding priority of the invention defined in count 1 to Richard J. Cowling, one of the appellees.

It is contended by appellant that the structure devised by him in July or August, 1930, and successfully operated by him as early as November 28, 1930, conforms to the structure defined in count 1; that he was the first to conceive and the first to reduce the invention to practice, and is, therefore, entitled to an award of priority.

It is the position of counsel for appellant that the language "stripper means slidably mounted on the rods", contained in count 1, should be construed broadly so as to—

> "include any stripper means capable of being prepared for use or placed in position so as to slide along the rods for 'simultaneously stripping'"

the confections from the rods, and that, when so construed, it reads upon appellant's stripping fork, illustrated by Exhibits Nos. 3 and 6, which was used in conjunction with the portable carrier and three cavity mold device constructed and operated by appellant in 1930.

Count 1 involved in this appeal was suggested to each of the parties by the Primary Examiner.

There is nothing in appellant's application, nor in either of the other applications here involved, which either discloses or suggests a stripper means of the type employed by appellant in his 1930 activities. On the contrary, the stripper means disclosed in the applications of the parties and the one which the Primary Examiner must have had in mind when he prepared the count for interference purposes is similar to appellant's improved device, claimed to have been conceived by him in December, 1931, and disclosed to the witness Frisby in January, 1932, which is described in his letter (Exhibit No. 23), hereinbefore quoted, dated March 18, 1932, and addressed to his patent attorney. In that letter appellant stated that—

> "An attachment to the lifting device eleminates [eliminates] the holding fork as shown on the folder. The attachment is simply a rectangular piece of tin, with thirty-six small holes for the wire projections [depending rods] on the lifting device [portable carrier], to go thru."

There appellant described a unitary structure having a stripper means attached to the lifting device or portable carrier with holes or openings through the stripper means to accommodate the depending rods, the structure being so arranged that, in operation, the weight of the stripper means stripped the frozen confections from the rods, over and on which the stripper means was slidably mounted.

The difference between appellant's improved device and the devices constructed and operated by him in 1930 and 1931 is so great that the Primary Examiner could not have had the latter devices in mind when he prepared the involved count.

In its decision, the Board of Appeals stated that the involved count—

> "recites a stripper means slidably mounted on the rods and we fail to see how the experimental device in 1930 [the device operated by appellant Hogue during that year] could by any stretch of language be said to incorporate a stripping fork supported by the lifting rack."

Appellant Hogue takes exception to the Board's language, and here contends that the involved count does not contain the limitation that the stripper means is supported by the lifting rack or portable carrier.

The count is clearly limited to a "stripper means slidably mounted on" the "rods" depending from, and which are a part of, the lifting rack or portable carrier, although it does not contain the language stripper means "supported by the lifting rack".

It is clear from an examination of appellant's Exhibits Nos. 3 to 6, inclusive, 9, 10, and 11 that the fork-shaped stripper devices constructed and used by him in 1930 and 1931 were designed to be used to remove frozen confections from the rods depending from the portable carriers. It is equally clear that those devices were not designed to slide on all of the rods, nor do they, in fact, when in use, so contact such rods. Obviously, then, appellant's fork-shaped stripper devices cannot be said to be "stripper means slidably mounted on said rods" under any proper interpretation of the language of the count. We are of opinion, therefore, that the involved count does not read upon the devices constructed and operated by appellant during 1930 and 1931.

[1] Accordingly, as appellee Cowling conceived the invention defined in count 1 in May, 1931, and successfully reduced it to practice in the latter part of October or the first part of November of that year, long prior to its conception by appellant Hogue and the parties Little and Loewenstein, appellee Cowling is entitled to an award of priority.

For the reasons herein stated, the decision of the Board of Appeals is affirmed.

Appeal No. 4,011

In Appeal No. 4,011 appellant Cowling appeals from the decision of the Board of Appeals awarding priority of the invention defined in method count 2 to James E. Hogue, one of the appellees.

It is contended by appellant that the testimony of the party Hogue and that of his corroborating witnesses (his wife Belva Hogue and his friends Melton and Zorub) that he operated a device, of which Exhibits Nos. 3 to 6, inclusive, are illustrative, on Thanksgiving Day, November 28, 1930, at his home in Hot Springs, Ark., is not supported by any documentary evidence; that it was based upon mere recollection of the witnesses; and that the operation of appellee's device so testified to might well have taken place a year later, after appellant Cowling reduced the invention to practice.

Our attention is called to so-called inconsistencies in the testimony of Hogue's witnesses. It is claimed that Hogue was in Little Rock, Ark., for the purpose of incorporating the Polar Products Company on or about Thanksgiving Day, November, 1931, and that it is quite likely that it was at that time that he disclosed the invention to his wife and the witnesses Melton and Zorub.

It clearly appears from the record that appellee Hogue moved his family, consisting of his wife and baby daughter, from Hot Springs, Ark., to Edinburg, Tex., in August, 1931; that he made his home in that city, at least, until May, 1932; that he was not living in Hot Springs, Ark., in November, 1931, and, therefore, the demonstration performed by him in the presence of his witnesses in his home in Hot Springs could not have taken place at that time. Furthermore, the witness Fred A. Young, secretary of the Polar Products Company, Inc. (organized for the purpose of commercializing Hogue's invention), upon being shown a "certified copy of articles of incorporation", testified that that corporation was incorporated on December 2, 1931, and that he saw appellee Hogue's apparatus, of which Exhibits 3 to 6, inclusive, are illustrative, operated at the Golden Jersey Creamery Company's plant in Edinburg, Tex., in June or July, 1931. The witness was positive that he saw Hogue's device operated at the Golden Jersey Creamery Company's plant several months prior to the incorporation of the Polar Products Company, Inc.

Frederick Hagedorn, one of appellee Hogue's witnesses, testified that he was in charge of the Golden Jersey Creamery Company's plant at Edinburg, Tex.; that his company commenced to manufacture ice cream about January 1, 1931; that about March, 1931, the company commenced the manufacture of popsicles; that some time during June or July, 1931, appellee Hogue and the witness Frisby demonstrated a device similar to Hogue's Exhibits Nos. 3 to 6, inclusive, in the Golden Jersey Creamery Company's plant. The witness described the device and its operation, and stated that it was successfully operated.

Hogue's witness Harold F. Winder, of Edinburg, Tex., stated that he was plant manager of the ice cream department of the Golden Jersey Creamery Company; that he assisted in demonstrating a device similar to Hogue's Exhibits Nos. 3 to 6, inclusive, for appellee Hogue and the witness Frisby in the Golden Jersey Creamery Company's plant in March, April, or May, 1931; that he also saw appellee's Exhibits Nos. 9, 10, and 11, or a device similar thereto, successfully operated in the Golden Jersey Creamery Company's plant at Edinburg, Tex., in September, 1931.

Other witnesses testified for appellee, but we deem it unnecessary to discuss their testimony.

We think it is clear from the evidence that the demonstration of a device similar to appellee Hogue's Exhibits Nos. 3 to 6, inclusive, took place on November 28, 1930, as stated by appellee and his witnesses Mrs. Hogue, Melton, and Zorub, and that the tribunals of the Patent Office correctly held that appellee was entitled to that date for reduction to practice of the method defined in count 2 of the interference.

[2] Inasmuch as appellant Cowling did not conceive the invention defined in count 2 until May, 1931, and Little and Loewenstein do not claim that they conceived the invention prior to April 16, 1932, we must hold that appellee Hogue is entitled to an award of priority of the invention defined in that count.

The decision of the Board of Appeals is affirmed.

Appeal No. 4,012

This appeal by the party James E. Hogue is in the nature of a cross-appeal to Appeal No. 4,013 by the parties Little and Loewenstein.

It is here contended by the party Hogue that, although the Board of Appeals was right in holding that Little and Loewenstein were not entitled to an award of priority of the inventions defined in counts 1 and 2 of the interference, it, nevertheless, erred in holding that they were, first, joint inventors, and, second, original inventors.

Due to the fact that we have held in Appeals Nos. 4,010 and 4,011 that Little and Loewenstein are not entitled to an award of priority of the invention defined in either of the involved counts (Nos. 1 and 2), the claims made by the party Hogue in this appeal need not be considered.

The decision of the Board of Appeals is affirmed.

Appeal No. 4,013

In this appeal Little and Loewenstein have appealed from the decision of the Board of Appeals awarding priority of the invention defined in count 1 to Richard J. Cowling, and priority of the invention defined in count 2 to James E. Hogue.

It is here contended, as we understand the brief of counsel for appellants, that, in view of the prior art, the claims constituting the counts in the interference are not patentable.

[3] It is elementary that in interference proceedings the patentability of claims constituting the counts in issue will not be considered by this Court, the jurisdiction of the Court in such proceedings being limited to the question of priority of invention and to such ancillary questions as may be involved therein.

Counsel for appellants contend that they have established by the evidence that a device constructed in accordance with the disclosure in the party Hogue's involved application is inoperative. It is stated in their brief that they—

"made a motion to dissolve the interference as to Hogue on the grounds of inoperativeness but it was ruled our motion was made out of order, which ruling we claim was error."

It appears that on May 18, 1935, immediately following the introduction of rebuttal evidence by appellants, counsel for appellants made an oral motion (we are unable to find any other) to dissolve the interference as to the party Hogue on the ground that the apparatus disclosed in the Hogue application does not conform to the invention defined in count 1, in that it would not operate to simultaneously strip the confections from the rods when the "carrier" was removed from the mold cavities. No explanation is offered for the failure of appellants to file a motion to dissolve during the motion period.

In his decision, the Examiner of Interferences said:

Since no motion to dissolve was brought under rule 122 during the motion period, the question of the sufficiency of the Hogue application as a constructive reduction to practice cannot be raised. • • • The case of *Garand* v. *Pedersen*, 460 O. G. 9, 1930 C. D. 525, 22 C. C. P. A. 1161, extends this doctrine to apparatus substantially identical with the application disclosure. Following this decision testimony concerning the operability of Hogue Exhibits 35 to 37 has no bearing on the Hogue application as a reduction to practice.

As hereinbefore noted, evidence was introduced in rebuttal by appellants Little and Loewenstein for the purpose of establishing that the party Hogue's commercial devices produced in the summer of 1932 (Hogue's Exhibits Nos. 35, 36, and 37), which conform to the disclosure in Hogue's involved application, were inoperative.

In its decision, the Board of Appeals stated that it agreed with the Examiner of Interferences that, in view of the record, it was unnecessary to consider that rebuttal evidence.

[4] Appellants Little and Loewenstein having failed to file a motion during the motion period to dissolve the interference as to the party Hogue on the ground of inoperativeness of the apparatus disclosed in his application, and no satisfactory reason being given for such failure, we must hold that the refusal of the tribunals of the Patent Office to consider the evidence relative to the operativeness of Hogue's commercial devices, which are substantially identical with the disclosure in his involved application, was not error. *Schweyer* v. *Thomas*, 21 C. C. P. A. (Patents) 859, 68 F.(2d) 953, 443 O. G. 298; *Garand* v. *Pedersen*, 22 C. C. P. A. (Patents) 1161, 1166, 76 F.(2d) 407, 460 O. G. 9; *Fishburn and Robbins* v. *Vincent*, 24 C. C. P. A. (Patents) 1079, 88 F.(2d) 711, 484 O. G. 262; *Creed et al.* v. *Potts*, 25 C. C. P. A. (Patents) 1084, 96 F.(2d) 317, 496 O. G. 9.

It is further contended that the Board of Appeals erred in affirming the decision of the Examiner of Interferences overruling Little and Loewenstein's motions, filed subsequent to the taking of the testimony in the case, to amend their preliminary statements, and to consider their rebuttal testimony relating to their activities in reducing the invention to practice as testimony in chief. It is claimed that appellants' rebuttal testimony establishes that they reduced the invention to practice on or about April 29, 1932, instead of May 5 of that year, as alleged in their preliminary statements.

In Appeals Nos. 4,010 and 4,011 we have held that the party Hogue is entitled to November 28, 1930, for reduction to practice of the invention defined in count 2, and that the party Cowling is entitled to the latter part of October or the first part of November, 1931, for reduction to practice of the invention defined in count 1. Accordingly, an award of priority could not be awarded the parties Little and Loewenstein of the inventions defined in the appealed counts, even though they be given the benefit of April 29, 1932, for reduction to practice. We deem it unnecessary, therefore, to consider the contention of counsel for Little and Loewenstein that the tribunals of the Patent Office erred in denying their motion to amend their preliminary statements, and in refusing to consider evidence introduced by them in rebuttal as evidence in chief.

Counsel for appellants contend that the party Cowling is not entitled to the benefit of the work done by the witnesses Cariffe, Veltman, and Eddy in reducing to practice the inventions defined in the involved counts, because, it is claimed, Cowling knew nothing about the activities of those parties until after he had filed his involved application.

The party Cowling testified that he was in South Pasadena, Calif., in November, 1931, and that he discussed the invention briefly with the witness Cariffe. Furthermore, the witness Cariffe, under whose supervision Cowling's Exhibit No. 18 was constructed and successfully operated in conjunction with Cowling's Exhibit No. 19, as hereinbefore stated, testified that the invention was disclosed to him by the party Cowling. The disclosure, it will be recalled, was contained in Cowling's Exhibit No. 7, a letter written by the party Cowling to the witness Cariffe. In addition to a disclosure of the invention, the exhibit contains the suggestion that Cariffe prepare a sketch of the disclosed apparatus. Cariffe, at the time he received the letter, was in a position not only to make a sketch but also to construct and test a device conforming to the disclosure, which he proceeded to do, evidently being of the opinion that, in so doing, he was acting in accordance with the wishes of the party Cowling.

We think it sufficiently appears from the record that in constructing devices in conformity with Cowling's disclosure to him, and in operating them, the witness Cariffe was acting in the capacity of agent of the party Cowling, and that the latter is entitled to the benefit of the work done by Cariffe and those who assisted him.

Other arguments are made in the brief of counsel for appellants Little and Loewenstein relative to the devices constructed and operated by Hogue in 1930 and 1931 and by Cowling in 1931. Our views with regard to those devices have been hereinbefore expressed, and need not be repeated.

[5] Lastly, it is contended by counsel for Little and Loewenstein that the party Cowling is chargeable with laches, because he failed to file his application for a patent for approximately one and one-half years "after his claimed conception date".

There are no facts or circumstances of record to warrant a holding that Cowling is chargeable with laches. The facts relative to his reduction to practice in October or November, 1931, have been hereinbefore stated. Having reduced the inventions to practice in October or November, 1931, Cowling was not chargeable with diligence at the time (April, 1932) appellants entered the field. No claim is made here by Little and Loewenstein that Cowling abandoned, suppressed, or concealed his invention. Furthermore, it appears that as a result of a conversation in April, 1932, between the party Cowling and several individuals associated with the Popsicle Company, with which company Cowling was also associated, several hundred of the Cowling devices were constructed in June, 1932, and sold or leased to the trade during the summer of that year.

For the reasons herein stated, the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,283,794, W. Keely, Bending machine, D. C., E. D. La. (New Orleans), Doc. 1127, *W. Keely et al.* v. *Southern Scrap Material Co., Ltd.* Dismissed May 3, 1939.

1,359,124, A. M. Springer, Ironing board; 1,895,164, 1,927,685, J. E. Kalgren, Ironing table, C. C. A., 6th Cir., Doc. 7743, *Rid-Jid Products, Inc., et al.* v. *The Rich Pump & Ladder Co.* Claims 1 and 3 of 1,359,124, claim 5 of 1,927,685, and claim 5 of 1,895,164 held invalid May 5, 1939.

1,389,067, M. D. Neilson, Undergarment for women; Re. 17,903 (of 1,680,267), same, Process of making garments for women and children, D. C., E. D. Pa., Doc. 9659, *Winget Kickernick Co. et al.* v. *Laskin Bros., Inc.* Stipulation of counsel dismissing bill without prejudice Mar. 8, 1939.

1,422,656, J. Brennan, Banana unloader, D. C., E. D. La. (New Orleans), Doc. 1186, *J. Brennan* v. *United Fruit Co.* Judgment entered maintaining exceptions of defendant to jurisdiction and dismissing suit Mar. 29, 1939. Appeal taken Apr. 25, 1939.

1,526,608, 1,590,852, J. Rakonick, Arch supporting shoe; 1,760,665, D. E. Spathelf, Shoes, C. C. A., 8th Cir., Doc. 11344, *J. Rakonick* v. *Hamilton-Brown Shoe Co.* Decree affirmed Apr. 29, 1939.

1,557,350, F. Stebler, Box dumping machine; 1,562,582, G. D. Parker, Automatic loading device for elevators; 1,818,646, same, Stop mechanism for box nailing machines, filed Apr. 25, 1939, D. C., S. D. Calif., C. Div., Doc. 346–Y, *Food Machinery Corp.* v. *Griffith Equipment Co., Inc., et al.* Doc. 348–M, *Food Machinery Corp.* v. *Brogdex Co.*

1,562,582. (See 1,557,350.)

1,577,163, M. R. Berger, Gutter hanger circle; 1,635,690, F. C Richner, Eaves trough hanger, filed Aug. 15, 1938, D. C., E. D. Pa., Doc. 10087, *Berger Bros. Co.* v. *C. P. Boyd Co., Inc.* Injunction. Bill dismissed as to unfair competition Apr. 11, 1939.

1,590,852. (See 1,526,608.)

1,630,935, G. B. Geiser, Gutter hanger circle; 1,823,631, H. Shaw, same; 1,717,829, M. R. Berger, Support for gutter hanger circles, D. C., E D. Pa., Doc. 9925, *Berger Bros. Co.* v. *C. P. Boyd & Co., Inc.* Judgment granting injunction, bill dismissed as to unfair competition Apr. 11, 1939.

1,635,690. (See 1,577,163.) 1,680,267. (See 1,389,067.)

1,717,829. (See 1,630,935.)

1,750,444, 1,750,445, E. J. Vallen, Curtain track, D. C., E. D. Pa., Doc. 9763, *E. J Vallen et al.* v. *Automatic Devices Co.* Bill and counterclaim dismissed without prejudice Apr. 19, 1939.

1,750,445. (See 1,750,444.) 1,760,665. (See 1,526,608.)

1,818,646. (See 1,557,350.)

1,819,258, 1,892,993, M. Nevin, Syringe; 1,839,695, 1,840,788, same, Hypodermic syringe, D. C., E. D. Pa., Doc. 7835, *Novocal Chemical Mfg. Co., Inc.*, v. *J. Lieb et al.* (*Proco-Sol Chemical Co.*). Dismissed by stipulation Feb. 7, 1939.

1,823,631. (See 1,630,935.) 1,839,695. (See 1,819,258.)

1,840,788. (See 1,819,258.)

1,889,137, P. A. White, Method and apparatus for lubricating and operating internal combustion engines, filed May 2, 1939, D. C., S. D. N. Y., Doc. 3/408, *P. A. White* v. *Oildex Corp.*

1,892,993. (See 1,819,258.) 1,895,164. (See 1,359,124.)

1,899,777, N. M. Stanley, Lense; 1,912,165, J. R. Silverman, same, C. C. A., 6th Cir., Doc. 7594, *The Univis Corp. et al.* v. *P. Rips et al.* Doc. 7595, *The Univis Corp. et al.* v. *C. M. Grimshaw.* Patents held invalid (notice May 3, 1939).

1,912,165. (See 1,899,777.)

1,912,363, H. De Waide, Dispenser for rolled sheet material; 1,971,396, same, Cementable support for wall fixtures, filed Apr. 26, 1939, D. C., N. D. Calif. (San Francisco), Doc. 21206–S, *Hal De Waide Products, Inc.*, v. *Consolidated Cover Co.*

1,913,344, J. E. Slusser, Molded black powder explosive, D. C. Del., Doc. E 1222, *E. I. du Pont de Nemours & Co.* v. *Atlas Powder Co.* Bill and counterclaim dismissed upon stipulation of counsel Apr. 3, 1939.

1,927,685. (See 1,359,124.)

1,929,006, H. B. Snader, Hosiery with elastic strain absorber, filed Apr. 27, 1939, D. C., E. D. Pa., Doc. 308, *Vanity Fair Silk Mills* v. *Lit Bros. et al.*

1,942,685, A. Christensen, Sulphite pulp digester system, filed May 4, 1939, D. C. Oreg. (Portland), Doc. 127, *Fibre Making Processes, Inc.*, v. *Electric Steel Foundry.*

1,944,158, R. W. French, Method for producing zinc oxide; 2,147,379, M. M. Pearlman, Method for producing high grade zinc oxide, filed Apr. 26, 1939, D. C., E. D. Pa., Doc. 300, *Superior Zinc Corp.* v. *Rohm & Haas Co., Inc.*

1,971,396. (See 1,912,363.)

1,972,421, C. N. Johnson, Rotary duplicator; 1,993,557, A. Marchev, Duplicating machine; 2,012,105, same, Duplicator; 2,007,473, Marchev & Hernlund, same, D. C., E. D. Wis. (Milwaukee), Doc. 4936, *Ditto, Inc.*, v. *Rex-O-Graph,*

Inc. Consent decree for plaintiff, dismissing bill with respect to 1,972,421, 1,993,557, and 2,012,105, and holding claims 7, 8, and 9 of 2,007,473 valid May 2, 1939.

1,981,197. (See 2,145,495.)

1,983,983, Larson & Johnstone, Automobile body, filed May 5, 1939, D. C., S. D. N. Y., Doc. 3/432, *Larson & Johnstone* v. *General Motors Corp.*

1,984,916, G. E. Bullock, Velocipede frame construction, filed May 6, 1939, D. C., N. D. Ohio, W. Div., Doc. 4358, *The E. C. Brown Co.* v. *The American National Co.*

1,993,557. (See 1,972,421.)

1,997,051, B. A. Engholm, Loud speaker, D. C., N. D. Ohio, E. Div., Doc. 19660, *Best Mfg. Co., Inc.*, v. *The Rola Co.* Dismissed Mar. 15, 1939.

2,007,473. (See 1,972,421.) 2,012,105. (See 1,972,421.)

2,038,923, R. H. Bradwell, Machine for producing tufted articles; 2,143,677, same, Tufting machine; 2,110,385, M. A. White, Tufting machine; 2,143,679, 2,143,678, Baggett & Gordon, same, filed Apr. 12, 1939, D. C., E. D. Tenn., S. Div., Doc. 35, *Poly Prentiss, Inc.*, v. *Colonial Coverlet Co.*

2,081,825, Leibing & Fageol, Governor, C. C. A., 2d Cir., Doc. —, *Leibing Automotive Devices, Inc.*, v. *E. A. Wildermuth.* Decree affirmed (notice May 8, 1939).

2,100,254, B. C. Kridler, Clip for fastening roofing, filed May 4, 1939, D. C., E. D. Mich., S. Div., Doc. 1099, *Seal All Clip Co.* v. *The Philip Carey Mfg. Co. et al.*

2,100,868, A. Oppenheimer, Jr., Slip cover for furniture, filed Mar. 16, 1939, D. C., E. D. Pa., Doc. 226, *Comfy Mfg. Co.* v. *Lit Bros., Inc.*

2,108,538. (See Re. 20,827.)

2,110,385. (See 2,038,923.)

2,123,709, Bristow & Strong, Therapeutic light ray apparatus, filed Apr. 27, 1939, D. C., S. D. Calif., C. Div., Doc. 356–Y, *F. H. Bowers et al.* v. *F. S. Rubens et al.*

2,134,194. (See Re. 20,827.)

2,143,677. (See 2,038,923.)

2,143,678. (See 2,038,923.) 2,143,679. (See 2,038,923.)

2,144,491, G. J. Heberlein, Weed burner, filed May 1, 1939, D. C. Colo. (Denver), Doc. 62, *G. J. Heberlein* v. *J. G. Ophardt (Triangle Weed Burner Mfg. Co.).*

2,145,495, H. Paxton, Method of and apparatus for removing excess surface water from fresh fruit; 1,981,197, F. B. Roberts, Method and apparatus for drying fruit, filed Apr. 25, 1939, D. C., S. D. Calif., C. Div., Doc. 349–C, *Food Machinery Corp.* v. *Brogdex Co. et al.*

2,147,379. (See 1,944,158.)

Re. 17,903. (See 1,389,067.)

Re. 17,985, J. Radcliffe, Road making, D. C., E. D. Wis. (Milwaukee), Doc. 5041, *Colprovia, Ltd., et al.* v. *Payne & Dolan of Wisconsin, Inc.* Consent decree for plaintiffs holding patent valid May 2, 1939.

Re. 20,827 (of 2,108,538), L. J. Leishman, Means and method for turning rotatable objects to predetermined positions; 2,134,194, same, Semi automatic means for positioning control shaft, filed Apr. 27, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 357–M, *L. J. Leishman* v. *Watson & Wilson, Inc.*

Re. 20,924, B. Nickle, Protective mat for cooking appliance, filed May 5, 1939, D. C., N. D. Ohio, E. Div., Doc. 19831, *B. Nickle* v. *Wooster Rubber Co.*

Des. 68,615, A. G. Decker, Handle for portable power-driven tool, D. C., S. D. Ind. (Indianapolis), Doc. 97, *Black & Decker Mfg. Co.* v. *C. E. McLean et al.* Patent held valid Apr. 29, 1939.

Des. 98,788, J. C. Viehmann, Kitchen table, D. C., E. D. N. Y., Doc. 1, *J. C. Viehmann et al.* v. *D. F. H. Novelty Furniture Co., Inc.* Judgment favor defendant May 5, 1939.

Des. 110,568, L. Garfinkel, Bracelet chain, filed May 2, 1939, D. C. R. I., Doc. 20, *T. & R. Jewelry Co.* v. *Cohn & Rosenberger, Inc.*

T. M. 358,242, Rio Grande Valley Citrus Exchange, Canned citrus fruits and fruit juices, filed Apr. 29, 1939, D. C., S. D. Tex. (Brownsville), Doc. 39, *Rio Grande Valley Citrus Exchange* v. *W. C. Bohannon et al.*

Disclaimers

2,050,704.—*Karl Koeberle, Robert Schweizer,* and *Christian Steigerwald,* Ludwigshafen-on-the-Rhine, Germany. PROCESS OF PRODUCING N-SUBSTITUTION PRODUCTS OF 1,4-DIAMINOANTHRAQUINONES. Patent dated August 11, 1936. Disclaimer filed June 27, 1939, by the assignee, *General Aniline Works, Inc.*

Hereby disclaims from claims 16 and 17 all compounds included within the given general formulae when R_1 and R_2 stand for alkyl, aralkyl or cycloalkyl.

Hereby disclaims from claim 18 all compounds included within the given general formula when R_2 is aralkyl or cycloalkyl.

Hereby disclaims from claim 20 all compounds included within the given general formula when R_2 is alkyl or cycloalkyl.

Hereby disclaims from claim 21 all compounds included within the given general formula when R_2 is alkyl or aralkyl.

Hereby disclaims claims 22 and 23.

2,093,416.—*Nelson P. Case,* Great Neck, N. Y. FEEDBACK CIRCUITS. Patent dated September 21, 1937. Disclaimer filed June 26, 1939, by the inventor.

Hereby enters this disclaimer to claim 9 of said patent.

2,114,623.—*Robert Morris Bergstein,* Cincinnati, Ohio. METHOD OF PROVIDING FOR INTERNAL ATMOSPHERIC EXPANSION OF FILLED BAGS AND HERMETICALLY SEALING SAME. Patent dated April 19, 1938. Disclaimer filed June 12, 1939, by the patentee and Edna May Bergstein, as trustees.

Hereby enter this disclaimer as to claims 1, 4, 7, and 8 of said Letters Patent as follows:

As to claim 1, hereby disclaim from the method claimed any step of collapsing the bag mouth which does not include mechanical pressure applied from both sides to the outside of the bag mouth.

As to claim 4, hereby disclaim from the method claimed, any step of flattening the walls of the open mouth which does not include mechanical pressure applied from both sides to the outside of the bag mouth.

As to claim 7, hereby disclaim from the method claimed, any step of bringing together in flattened relationship of the two opposite walls of said mouth, which does not include mechanical pressure applied from both sides to the outside of the bag mouth walls.

As to claim 8, hereby disclaim from the method claimed, any step of bringing together in flattened position, the two opposite walls of said mouth, which does not include mechanical pressure applied from both sides to the outside of the bag mouth walls.

TRADE-MARKS

OFFICIAL GAZETTE, JULY 18, 1939

[VOL. 504. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 419,715. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed May 23, 1939. Under section 5b of the act of 1905 as amended in 1920.

DU PONT

For Cellulose Acetate, Plastics, Cellulose Film; Cellulose Nitrate Plastics, Clays, Flint, Fluorspar, Methyl Methacrylate Molding Powder, Nitrocellulose, Sponge Rubber, Powdered Glass, Pyrophyllite, Pyrospar, Quartz, Resinous Plastics, Resins, Silica, and Talc.

Claims use since October, 1923.

CLASS 2

Receptacles

Ser. No. 410,620. THE BRYANT ELECTRIC COMPANY, Bridgeport, Conn. Filed Sept. 14, 1938.

HEMCO PLASTICS

The word "Plastics" is disclaimed apart from the mark.

For Tumblers, Soap Dishes, Castor Cups, Cups, Saucers, Coasters, Bowls, Plates, Dishes, and Sugar and Cream Sets, of Plastics Molded from Powdered Resins.

Claims use since July 15, 1938.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 416,752. WEBSTER-WALSH COMPANY, Detroit, Mich., assignor to Kolene Corporation, Detroit, Mich. Filed Mar. 6, 1939.

KOLENE

For Cleaning Solvent for Use as a Dry Cleaning Preparation for Fabrics and for Degreasing Metals, and as a Detergent for General Purposes.

Claims use since Jan. 5, 1939.

Ser. No. 419,164. C. L. SHORTS, West Alexander, Pa. Filed May 6, 1939.

NU IZ

For Liquid Preparation for Cleaning and Polishing Precious Gems, Synthetic Stones, Glassware, Windows, and Mirrors.

Claims use since Apr. 20, 1939.

Ser. No. 419,193. GEO. J. KELLY, INC., Lynn, Mass. Filed May 8, 1939.

Prom

For Preparations for the Treatment of Footwear—viz., Shoe Polishes, Creams, Dressings, Self-Shining Liquid Wax, and White Shoe Cleaner, Each of Said Preparations Being Liquid, Paste, or Cream.

Claims use since Aug. 11, 1938.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 406,614. THE J. R. WATKINS COMPANY, Winona, Minn. Filed May 21, 1938.



J. R. Watkins

The signature and portrait are those of J. R. Watkins, deceased.

For Medicinal Abirritants, Acotin, Alkalizers, Alteratives, Antacids, Analgesics, Anesthetics, Anodynes, Antiphlogistics, Aspirin, Aspirin Compounds, Antiseptics, Balsams, Carminatives, Cascara Sagrada and Compounds Thereof, Cathartics, Cod Liver Products and Compounds, Contractiles, Corn Salve, Counter Irritants, Cough Medicines, Demulcents, Digestants, Diuretics, Disinfectants, Emollients, Epispastics, Febrifuges, Germicides, Inhalants, Insecticides, Laxatives, Lenitives, Liniments for Treatment of Muscular Sprains, Stiffness and Soreness, and Pains and Aches in the Muscles, Magnesia and Compounds Thereof, Palliatives, Prophylactics, Physics, Purgatives, Sedatives, Stimulants, Vitamins, Mineral Feed Supplements, Mineralized Tonics and Combinations and Compounds of Minerals for Use as Food Supplements, Systemic Tonics, Vermifuges, Vesicatories, Vitamin Concentrates, Vulneraries, Cosmetic Creams, Cosmetic Lotions, Cosmetic Liquids, Cosmetic Oils, Cosmetic Cleansers or Stimulants in Solid, Cream, Lotion, Liquid or Emulsion Form, Cosmetic Tonics, Cosmetic Powders, Cosmetic Washes, Cosmetic Jellies, Cosmetic Alteratives, Cosmetic Salts, Bath Salts and the Like, Cosmetic Coloring Materials, Cosmetic Pastes, Deodorants, Astringents, Toilet Waters, Perfumes, Perfumed Starch, Materials for Softening Water, Cream of Tartar, and Colors for Food.

Claims use since December, 1913.

Ser. No. 407,469. PRESCRIPTION SPECIALTIES COMPANY, San Antonio, Tex. Filed June 14, 1938.

PRESCRIPTION PRESCO SPECIALTIES CO.

For Ear Drops, Red Bug Lotion, Cough Syrup, Gargle, Ointment Used as Vehicle for Skin Treatment, Counter-Irritant, Skin Cream, Scalp Ointment, Inhalant, Powder for Treatment of Prickly Heat, Carminative, Cough Mixture, Skin Oil, Antipruritic Lotion, Emulsion Preparation as Tonic, Emulsion Preparation with Vitamins A and D, Antipyretic Powder, Laxative, Prophylactic, Iron Liver Extract, Vitamin A and D Capsules, Malt with Vitamins A and D, Cod Liver Oil, Syrup Aromatic for Use as a Vehicle for Drugs, and Nose Drops.

Claims use since Dec. 7, 1937.

Ser. No. 409,568. EMPIRE VITAMIN CORPORATION, Syracuse, N. Y. Filed Aug. 13, 1938.

VITARICE Genuine

No claim is made to the term "Genuine" apart from the mark.

For Medicinal Vitamin Preparation in Capsule and/or Tablet Form, and Extract.

Claims use since June 1, 1938.

Ser. No. 410,539. ALMA K. ENGLES, Batesville, Ark. Filed Sept. 14, 1938.

...Lenga...

The word "Lenga" is disclaimed apart from the mark.

For Preparation for Removing Dandruff.

Claims use since Mar. 1, 1938.

Ser. No. 410,974. CARBIDE AND CARBON CHEMICALS CORPORATION, New York, N. Y. Filed Sept. 22, 1938.

Flexol

For Plasticizers for Imparting Flexibility to Resins and Plastics.

Claims use since July 16, 1938.

Ser. No. 414,404. HERCULES POWDER COMPANY, Wilmington, Del. Filed Dec. 31, 1938.

HERCULES SYNTHESIZE



No claim is made to the word "Synthesize" apart from the mark.

For Synthetic Textile Finishing Agent.

Claims use since Nov. 21, 1938.

Ser. No. 416,163. BENJAMIN SCHWEBEL, doing business as Akshun Company, New York, N. Y. Filed Feb. 17, 1939.

AKSHUN

For Preparation for the Relief of Burning, Itching, and Soreness of Hemorrhoids and Piles, and Discomfort of Minor Rectal Irritations.

Claims use since Dec. 30, 1937.

Ser. No. 417,257. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Richmond, Calif. Filed Mar. 20, 1939.

ORTHOL

For Parasiticides.

Claims use since Feb. 17, 1939.

Ser. No. 417,314. RUBY S. VELLA, doing business as "KEF" Products, Chicago, Ill. Filed Mar. 20, 1939.

KEF

For Tonic Medicine for Dogs and Cats Used in the Treatment of Distemper and Worms.

Claims use since Aug. 24, 1933.

Ser. No. 417,970. FRANK G. MACALOON, doing business as New Chemical Products Co., Washington, D. C. Filed Apr. 7, 1939.

MIST-O-DETH

For Insecticide.

Claims use since Feb. 15, 1939.

Ser. No. 418,472. ELIZABETH ARDEN, INC., New York, N. Y. Filed Apr. 20, 1939.

ARDENA SPORTS GELÉE

The word "Gelee" is disclaimed apart from the mark.

For Toilet Cream or Jelly.

Claims use since Apr. 15, 1939.

Ser. No. 418,606. EDMUND J. STABINSKI, doing business as Life Lax Co., Ashley, Pa. Filed Apr. 22, 1939.

LIFE LAX

For Laxative.

Claims use since February, 1937.

Ser. No. 418,704. MARGARET CROSSE, Los Angeles, Calif. Filed Apr. 26, 1939.

TARACEL

For Substance for Detoxicating, Spreading, and Rendering Adhesive Insecticides and Fungicides Used in Agriculture.

Claims use since Feb. 1, 1938.

Ser. No. 418,724. MINER'S, INC., New York, N. Y. Filed Apr. 26, 1939.

Lip Tip

No claim is made to the word "Lip" apart from the mark.

For Lipsticks.

Claims use since Dec. 18, 1938.

Ser. No. 418,749. THE SELIG COMPANY, Atlanta, Ga. Filed Apr. 26, 1939.

MOTHANE

For Insecticides.

Claims use since Nov. 16, 1935.

Ser. No. 418,750. THE SELIG COMPANY, Atlanta, Ga. Filed Apr. 26, 1939.

SELCOFUME

For Insecticides.

Claims use since Jan. 1, 1938.

Ser. No. 418,784. MILLER CHEMICAL & FERTILIZER CORP., Baltimore, Md. Filed Apr. 27, 1939.

MICO

For Sulphur, Blue Dust, Spraying Dusts and Spreaders, Insecticides, and Fungicides.

Claims use since May 1, 1938.

Ser. No. 419,042. S. PFEIFFER MFG. CO., St. Louis, Mo. Filed May 3, 1939.

CREACOMP

For Medicinal Preparation for the Relief of Coughs, Colds, and Bronchial Irritations.

Claims use since Apr. 15, 1939.

Ser. No. 419,062. THE GAFFORD PHARMACAL CO., Cleveland, Ohio. Filed May 4, 1939.

GAFFEDROL

For Nose Drops.
Claims use since Dec. 1, 1930.

Ser. No. 419,078. HARRY D. KOENIG, New York, N. Y. Filed May 4, 1939.

Martha—Washington

SPIRIT OF '76

The portrait is that of Martha Washington.
For Face Powder, Lipstick, Face Rouge, Cleansing Cream, Cold Cream, Foundation Cream, Astringent Lotion, Nail Polish, Liquid Nail Polish Remover, Tissue Cream, Mascara, Eye Shadow, Hand Lotion, Cucumber Face Cream, Muscle Oil, and Perfumes.
Claims use since December, 1936.

Ser. No. 419,103. ELEANOR BROUILLET, Gardner, Mass. Filed May 5, 1939.

MIRACULUM

For Ointment To Be Used Externally for Boils, Carbuncles, Insect Bites, Cuts, Bruises, Skin Irritations, Scrapes, and Blisters.
Claims use since Feb. 1, 1939.

Ser. No. 419,145. ENDO PRODUCTS, INC., New York, N. Y. Filed May 6, 1939.

VITACEE

For Preparation Used to Supply Vitamin C Through Injections.
Claims use since Dec. 1, 1937.

Ser. No. 419,422. WALTER G. HARVEY, doing business as Harvey Dental Specialty Co., Los Angeles, Calif. Filed May 15, 1939.

Vapo-Steril

No claim is made to the word "Steril" apart from the mark.
For Sterilizing Solution.
Claims use since Apr. 24, 1939.

Ser. No. 419,498. VINCENT CHRISTINA, INC., New York, N. Y. Filed May 17, 1939.

THIOPENTARSON

For Preparation Used in the Treatment of Syphilis.
Claims use since May 8, 1939.

Ser. No. 419,522. LAFAYETTE PHARMACAL INC., Lafayette, Ind. Filed May 17, 1939.

PANLA

For Medicament for Internal Use (Oral Administration) Contained within Capsules and Having an Enteric Coating and Used in the Treatment of Glycosuria and Other Diseases.
Claims use since Mar. 1, 1939.

Ser. No. 419,595. ORONZO PETRUZZELLI, doing business as Petruzzelli Co., New York, N. Y. Filed May 19, 1939.

KEMA-ZELLI

For Skin Lotion.
Claims use since Mar. 15, 1939.

Ser. No. 419,727. EMANUEL MANO MARKOVITS, doing business as Saccharinefabriek "Hollandia", Rotterdam, Netherlands. Filed May 23, 1939.



The portrait is fanciful.
For Saccharin and Saccharates in Tablet Form, Medicated and Flavored Troches, Lozenges and Pastils for Sweetening the Breath.
Claims use since Feb. 14, 1939.

Ser. No. 419,866. INTERNATIONAL AFFILIATED CORPORATION, New York, N. Y. Filed May 26, 1939.

HEMOLUOL

For Antispasmodic, Uterine Tonic.
Claims use since May 19, 1939.

Ser. No. 419,920. THE KNOX COMPANY, Miami Beach, Fla. Filed May 27, 1939.

Citrogene

For Mouth Prophylaxis.
Claims use since Apr. 20, 1939.

Ser. No. 419,921. THE KNOX COMPANY, Miami Beach, Fla. Filed May 27, 1939.

Citrofoam

For Dentifrice.
Claims use since Apr. 20, 1939.

Ser. No. 420,083. BAYMAX SYNDICATE, Buffalo, N. Y. Filed June 2, 1939.

BAYMAX

For Medicated Confections to be Used as a Breath Deodorant.
Claims use since Feb. 23, 1937.

CLASS 7

Cordage

Ser. No. 419,614. INDEPENDENT CORDAGE COMPANY, INC., New York, N. Y. Filed May 20, 1939.

NORDIC

For Binder Twine, Cord, Rope of Cotton, Hemp, or Other Fibrous Materials.
Claims use since Oct. 1, 1938.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 413,270. MCCLELLAND BARCLAY ART PRODUCTS INC., New York, N. Y. Filed Nov. 29, 1938.

MANZY
THE FROG

Applicant disclaims the words "The Frog" apart from the mark.
For Cigarette Snubber.
Claims use since Oct. 1, 1938.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 419,117. HERCULES POWDER COMPANY, Wilmington, Del. Filed May 5, 1939.

PRIMATUBE

For Combination Blasting Cap and Explosives Cartridge.
Claims use since Apr. 25, 1939.

CLASS 12

Construction Materials

Ser. No. 413,043. GYPSUM INSULATION & MANUFACTURING COMPANY, Los Angeles, Calif. Filed Nov. 22, 1938.

THERMO-SOUNDSORB

For Insulating Plaster Materials.
Claims use since Oct. 27, 1938.

Ser. No. 417,776. PEASE WOODWORK COMPANY, INC., Cincinnati, Ohio. Filed Apr. 1, 1939.



Applicant disclaims the words "Rot-Proofed," "Moisture-Proofed," "Termite-Proofed," and "Sealed" except as shown.
For Wood Building Materials Which Have Been Chemically Treated to Protect Them Against Rotting, Moisture, and Insects.
Claims use since Mar. 18, 1939.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 402,959. U. S. MANUFACTURING CORPORATION, Decatur, Ill. Filed Feb. 11, 1938.

SNACK-SET

No claim is made to the word "Set" apart from the mark.
For Base Metal Dishes.
Claims use since Dec. 1, 1937.

Ser. No. 415,904. HENRY LINDSAY LIMITED, Bradford, England. Filed Feb. 10, 1939.

LINDAPTER

For Bolts and Hook Adapters for Bolts.
Claims use since Oct. 28, 1938.

Ser. No. 419,379. HOWARD L. HILL, doing business as Hilco Products, New York, N. Y. Filed May 13, 1939.

Hilco

For Wall Soap Dishes, Wall Tumbler Toothbrush Holders, Wall Toilet Paper Holders, Wall Tumbler Holders, Wall Tooth Brush Holders, Wall Towel Holders, Hooks for Clothing, Tub Soap Dish Holders, Tub Grab Bars, Glass Bathroom Wall Shelves, Portable Showers, and Shower Doors.
Claims use since Oct. 30, 1937.

Ser. No. 419,897. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed May 26, 1939.

MISTLITE

For Slider-Controlled Multiple Separable Fasteners for Clothing.
Claims use since May 9, 1939.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 418,351. MEEHANITE METAL CORPORATION, Chattanooga, Tenn. Filed Apr. 17, 1939. Under act of Feb. 20, 1905 as amended June 10, 1938.

MEEHANITE METAL

No claim is made to the word "Metal" apart from the mark.
For Gray-Iron Castings.
Claims use since June 1, 1923.

Ser. No. 418,352. MEEHANITE METAL CORPORATION, Chattanooga, Tenn. Filed Apr. 17, 1939. Under act of Feb. 20, 1905 as amended June 10, 1938.

MEEHANITE

For Forgings and Castings Made of Iron and Iron Alloys.
Claims use since Nov. 1, 1930.

Ser. No. 418,353. MEEHANITE METAL CORPORATION, Chattanooga, Tenn. Filed Apr. 17, 1939. Under act of Feb. 20, 1905 as amended June 10, 1938.

METAL

No claim is made to the word "Metal" apart from the mark.
For Forgings and Castings of Iron and Iron Alloys.
Claims use since Sept. 30, 1930.

Ser. No. 419,134. ZIV STEEL & WIRE CO., Chicago, Ill. Filed May 5, 1939.

NI-HOB

The word "Hob" is disclaimed apart from the mark.
For Hobbing Steel.
Claims use since Feb. 10, 1939.

Ser. No. 419,541. ALLEGHENY LUDLUM STEEL CORPORATION, Pittsburgh, Pa. Filed May 18, 1939.

DBL

For Tool Steels.
Claims use since Mar. 7, 1938.

Ser. No. 419,542. ALLEGHENY LUDLUM STEEL CORPORATION, Pittsburgh, Pa. Filed May 18, 1939.

LMW

For Tool Steels.
Claims use since Jan. 4, 1935.

Ser. No. 419,543. ALLEGHENY LUDLUM STEEL CORPORATION, Pittsburgh, Pa. Filed May 18, 1939.

M. L.

For Tool Steels.
Claims use since Dec. 11, 1925.

CLASS 15

Oils and Greases

Ser. No. 419,196. FRANCIS R. NICHOLS, doing business as Edgol Company, Baltimore, Md. Filed May 8, 1939.

Edgol

For Preservative Oil for Razor Blades and the Like.
Claims use since Nov. 26, 1937.

Ser. No. 419,824. VEGETABLE OIL PRODUCTS COMPANY, INC., Wilmington, Calif. Filed May 25, 1939.

KOLZOL

For Oils and Greases for Use in the Manufacture and Composition of Lubricating Oils and Greases.
Claims use since Nov. 29, 1938.

CLASS 16

Paints and Painters' Materials

Ser. No. 413,599. THE STATE CHEMICAL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Dec. 8, 1938.

STATE BRAND

Applicant disclaims the word "Brand" apart from the mark.
For Furniture Polish, Floor Polish, and Automobile Polish.
Claims use since June 1, 1931.

Ser. No. 416,345. STANDARD INDUSTRIAL PRODUCTS, INC., Evansville, Ind. Filed Feb. 23, 1939.

"PERMA-VENEER"

The word "Veneer" is disclaimed apart from the mark.
For Varnish, Lacquer, Brushing Lacquer Thinners, Surface Finishers in the Nature of Varnishes and Used for Smooth Surfaces Such as Surfaces of Linoleum Floors, Table Tops, and Woodwork.
Claims use since November, 1938.

Ser. No. 416,556. GRAND RAPIDS VARNISH CORPORATION, Grand Rapids, Mich. Filed Mar. 1, 1939.

ECONO-LINE

For General Industrial Finishes—Namely, Varnishes, Ready Mixed Paints, Paint Enamels, and Lacquers.
Claims use since Jan. 2, 1939.

Ser. No. 416,981. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Mar. 13, 1939.

Perma-Life

For Base Coat for Bowling Alley Beds in the Nature of a Lacquer.
Claims use since Aug. 15, 1938.

Ser. No. 419,139. BILTMORE PAPER CO., INC., New York, N. Y. Filed May 6, 1939.

PLANET

For Liquid Floor Wax.
Claims use since Feb. 20, 1939.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 414,649. AMERICAN CAR AND FOUNDRY COMPANY, New York, N. Y. Filed Jan. 10, 1939.

a.C.f.

For Railway Cars, Car Wheels, Boats—Namely, Motor Cruisers, Launches, Rowboats, Excursion Boats and Barges, and Structural Parts Thereof.
Claims use since Apr. 28, 1926.

Ser. No. 416,675. ARNOLD, SCHWINN & CO., Chicago, Ill. Filed Mar. 4, 1939.

Schwinn CYCLE TRUCK

Applicant disclaims the words "Cycle Truck" apart from the mark.
For Bicycles.
Claims use since Feb. 2, 1939.

Ser. No. 419,479. THE GOODYEAR TIRE & RUBBER COMPANY, INC., Akron, Ohio. Filed May 16, 1939.

Plio-Tex

For Covers for Automobile Seats and Seat Backs.
Claims use since Apr. 14, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 406,097. NATIONAL ELECTRIC COIL COMPANY, Columbus, Ohio. Filed May 7, 1938.

NATIONAL MICA-GLAS ELECTRIC COILS

Applicant disclaims the words "Mica-Glas Electric Coils".
For Electric Coils.
Claims use since Apr. 29, 1938.

Ser. No. 416,724. THE ELECTRIC AUTO-LITE COMPANY, Toledo, Ohio. Filed Mar. 6, 1939.

Steelductor

For Electric Ignition Cable.
Claims use since Oct. 1, 1938.

Ser. No. 417,897. VIDRIO PRODUCTS CORPORATION, Chicago, Ill. Filed Apr. 5, 1939.

TUCK-A-WAY

For Electric Fans.
Claims use since Mar. 15, 1939.

Ser. No. 418,908. WESTINGHOUSE ELECTRIC & MANUFACTURING COMPANY, East Pittsburgh, Pa. Filed Apr. 29, 1939.

INSANOL

For Electrical Insulating Material.
Claims use since Dec. 1, 1938.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 419,560. META PENTE, doing business as Fold-A-Way Products, Park Ridge, Ill. Filed May 18, 1939.

FOLD-A-WAY

For Folding Paper Products, Paper Toys, Paper Cut-Outs, and Paper Die Cut-Outs.
Claims use since Dec. 31, 1920.

Ser. No. 420,158. S. L. ALLEN & CO., INC., Philadelphia, Pa. Filed June 5, 1939.



No claim is made to the word "Ski" or to the representation of the goods apart from the mark.
For Skis.
Claims use since May 24, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 411,366. BENDIX-WESTINGHOUSE AUTOMOTIVE AIR BRAKE COMPANY, Pittsburgh, Pa. Filed Oct. 7, 1938.

BW

For Air Compressors and Parts Thereof.
Claims use since July 27, 1938.

Ser. No. 413,853. BLACKHAWK MFG. CO., West Allis, Wis. Filed Dec. 15, 1938.

TORKFLASH

For Wrenches and Twisting Tool Sets for Nut, Stud, and Bolt Driving.
Claims use since Nov. 15, 1938.

Ser. No. 416,765. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Filed Mar. 7, 1939.

Gillette

For Razors and Hair Removing Devices—Namely, Electrically Operated Instruments for Shaving and for Removing Hair from the Body.
Claims use since Dec. 22, 1936.

Ser. No. 417,511. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed Mar. 25, 1939.

SURFIDE

For Internal Combustion Engines and Parts Thereof—Namely, Cylinder Liners, Pistons, Cam Shafts, Tappets, Valves, Engine Blocks, Gears, Connecting Rods, Bushings, Valve Guides, Knuckle Pins, Oil Collars, Wrist Pins, Gear Shafts.
Claims use since Mar. 2, 1939.

Ser. No. 418,648. THE NUTEX COMPANY, Philadelphia, Pa. Filed Apr. 24, 1939.

TOT

For Single Edge and Double Edge Razors and Razor Blades.
Claims use since Apr. 15, 1935.

Ser. No. 418,696. U. S. EXPANSION BOLT CO., York, Pa. Filed Apr. 25, 1939.

U·S·E·

For Hand Saws.
Claims use since Aug. 15, 1938.

Ser. No. 418,805. BETHLEHEM STEEL COMPANY, Bethlehem, Pa. Filed Apr. 28, 1939.

BIS

For Sucker Rods, Sucker Rod Couplings, and Internal Thread Protectors for Sucker Rods and Sucker Rod Couplings (the Above Named Items Being Pump Parts).
Claims use since Jan. 19, 1939.

CLASS 26

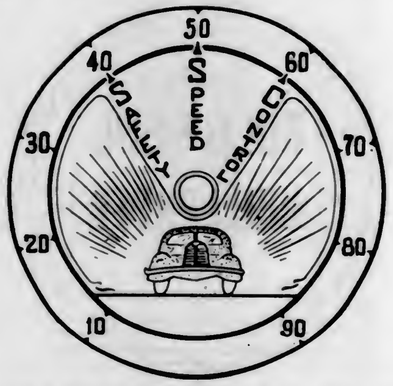
Measuring and Scientific Appliances

Ser. No. 404,442. INTERNATIONAL BUSINESS MACHINES CORPORATION, Endicott, N. Y. Filed Mar. 24, 1938.

International

Applicant claims ownership of trade-mark of Certificate No. 298,435, issued Oct. 25, 1932.
For Statistical Machines, Card Controlled Accounting Machines, Card Controlled Tabulating Machines, Card Sorting Machines, Card Punching Machines, and Card Printing Machines.
Claims use since May 23, 1930.

Ser. No. 418,496. SAFETY SPEED CONTROL COMPANY, Chicago, Ill. Filed Apr. 20, 1939.



No claim is made to the words "Safety Speed Control" except as shown.
For Speedometer Shaft Operated Safety Speed Control.
Claims use since Jan. 18, 1939.

CLASS 27

Horological Instruments

Ser. No. 415,741. HERBERT A. RHODES, New York, N. Y. Filed Feb. 7, 1939.



For Wooden Cross with Clock Therein.
Claims use since Oct. 1, 1938.

Ser. No. 419,762. THE E. INGRAHAM COMPANY, Bristol, Conn. Filed May 24, 1939.

MINUTE MAN

For Watches, Watch-Movements, and Clocks.
Claims use since Mar. 4, 1918, on watches and watch movements; and since Sept. 30, 1938, on clocks.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 419,253. ARTHUR M. COHEN, New York, N. Y. Filed May 10, 1939.

TRU-ART

For Jewelry for Personal Wear Not Including Watches.
Claims use since Jan. 5, 1939.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 419,025. SEBASTIAN S. KRESGE, doing business as Kresge Department Store, Newark, Newark, N. J. Filed May 8, 1939.

KREST

For Ceramic Cooking and Table Ware.
Claims use since June 20, 1929.

CLASS 32

Furniture and Upholstery

Ser. No. 420,238. ROSE-DERRY COMPANY, Newton, Mass. Filed June 6, 1939.

SLEEPSENTRY

For Mattresses.
Claims use since May 6, 1939.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 417,251. W. B. CONNOR ENGINEERING CORP., New York, N. Y. Filed Mar. 21, 1939.

DOREX

For Odor Adsorbers and Parts Thereof—Namely, Canisters for Activated Carbon and/or Other Air Treating Substances, Manifold Plates, Sheet Metal Casings, Cabinets, and Tanks.

Claims use since Sept. 26, 1938.

Ser. No. 419,397. J. O. ROSS ENGINEERING CORPORATION, New York, N. Y. Filed May 13, 1939.

CALIQUA

For Hot Water Heat Distribution Units and Parts Therefor.

Claims use since Mar. 10, 1939.

CLASS 37

Paper and Stationery

Ser. No. 416,938. ALLIED PRINTING TRADES ASSOCIATION, Indianapolis, Ind. Filed Mar. 11, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

ALLIED PRINTING TRADES UNION LABEL COUNCIL

No claim is made to the words "Union Label" apart from the mark.

For Autograph Paper, Bill Heads, Blank Books, Blotting Paper, Blue-Print Paper, Book Markers, Bronze Paper, Cardboard, Chalk, Composition Books, Crayon, Crepe Paper, Display Cards, Drawing Pencils, Envelopes, Erasers, Fountain Pens, Gold Paper, Gummed Paper, Index Tabs, Lead Pencils, Ledgers, Loose Leaf Binders, Memorandum Books, Moisteners, Paper Clips, Paper Napkins, Pass Books, Pencils, Pencil Sharpeners, Pen Points, Photograph Albums, Picture Post-Cards, Poster Paper, Printing Paper, Radio Diaries, Rubber Bands, Rubber Erasers, Rubber Stamps, Ruled Paper, Safety Paper, Scrap Books, Second Sheets, Shipping Tags, Silver Paper, Soap Erasers, Stencil Cards, Thumb Tacks, Tissue Paper, Toilet Paper, Tracing Paper, Typewriter Paper, Wall Paper, Waxed Paper, Wrapping Paper, Writing Paper, and Writing Tablets.

Claims use since January, 1896.

Ser. No. 416,956. INTERNATIONAL TYPOGRAPHICAL UNION, Indianapolis, Ind. Filed Mar. 11, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

TYPOGRAPHICAL UNION LABEL

No claim is made to the words "Union Label" apart from the mark.

For Autograph Paper, Bill Heads, Blank Books, Blotting Paper, Blue-Print Paper, Book Markers, Bronze Paper, Cardboard, Chalk, Composition Books, Crayon, Crepe Paper, Display Cards, Drawing Pencils, Envelopes, Erasers, Fountain Pens, Gold Paper, Gummed Paper, Index Tabs, Lead Pencils, Ledgers, Loose Leaf Binders, Memorandum Books, Moisteners, Paper Clips, Paper Napkins, Pass Books, Pencils, Pencil Sharpeners, Pen Points, Photograph Albums, Picture Post-Cards, Poster Paper, Printing Paper, Radio Diaries, Rubber Bands, Rubber Erasers, Rubber Stamps, Ruled Paper, Blank Rulers Used for Drawing Lines, Safety Paper, Scrap Books, Second Sheets, Shipping Tags, Silver Paper, Soap Erasers, Stencil Cards, Thumb Tacks, Tissue Paper, Toilet Paper, Tracing Paper, Typewriter Paper, Wall Paper, Waxed Paper, Wrapping Paper, Writing Paper, and Writing Tablets.

Claims use since July, 1903.

Ser. No. 418,243. CHARLES D. HILBERT, Cincinnati, Ohio. Filed Apr. 14, 1939.

THE BLACK BAR

For Blank Record Sheets for Radio Programs.

Claims use since Apr. 1, 1939.

Ser. No. 418,511. THE H. BLONDER CO., Cleveland, Ohio. Filed Apr. 21, 1939.

GOLD SEAL WALLPAPER

The word "Wallpaper" is disclaimed apart from the mark.

For Wall Paper.

Claims use since July 1, 1938.

Ser. No. 419,927. MILLFOLD PAPER PRODUCTS INC., New York, N. Y. Filed May 27, 1939.

MILLFOLD

For Paper Napkins.

Claims use since May 19, 1939.

Ser. No. 419,999. THE ESTERBROOK STEEL PEN MANUFACTURING COMPANY, Camden, N. J. Filed May 31, 1939.

VISUMASTER

For Fountain Pens and Parts Thereof.

Claims use since May 26, 1939.

CLASS 38

Prints and Publications

Ser. No. 414,091. ALLIED PRINTING TRADES ASSOCIATION, Indianapolis, Ind. Filed Dec. 22, 1938. Under act of Feb. 20, 1905, as amended June 10, 1938.

ALLIED PRINTING TRADES UNION LABEL COUNCIL

No claim is made to the words "Union Label" apart from the mark.

For Matter Produced by Printing, Lithographing, and/or Similar and/or Substitute Process, Particularly for Almanacs, Annual Publications, Book Series, Calendars, Cartoons, Catalogues, Daily Newspapers, Data Sheets, Dictionaries, Drawings, Engineering Bulletins, Financial Publications, Lithographs, Maps, Monthly Magazines, Motion-Picture Trade Papers, Music Books, Newspapers, Newspaper Sections, Pamphlets, Photographic Portraits, Picture Cards, Posters, Price Lists, Printed Charts, Push Cards, Rebound Books, Redeemable Coupons, Religious Cards, Religious Pamphlets, Scientific Periodicals, Semi-Monthly Magazines, Serial Publications, Sheet Music, Skeleton Drawings, Trade Journals, Trading Stamps, Weekly Periodicals.

Claims use since January, 1896.

Ser. No. 414,113. INTERNATIONAL TYPOGRAPICAL UNION, Indianapolis, Ind. Filed Dec. 22, 1938. Under act of Feb. 20, 1905, as amended June 10, 1938.

TYPOGRAPHICAL UNION LABEL

No claim is made to the words "Union Label" apart from the mark.

For Almanacs, Annual Publications, Book Series, Calendars, Cartoons, Catalogues, Daily Newspapers, Data Sheets, Dictionaries, Drawings, Engineering Bulletins, Financial Publications, Lithographs, Maps, Monthly Magazines, Motion-Picture Trade Papers, Music Books, Newspapers, Newspaper Sections, Pamphlets, Photographic Portraits, Picture Cards, Posters, Price Lists, Printed Charts, Push Cards, Rebound Books, Redeemable Coupons, Religious Cards, Religious Pamphlets, Scientific Periodicals, Semi-Monthly Magazines, Serial Publications, Sheet Music, Skeleton Drawings, Trade Journals, Trading Stamps, Weekly Periodicals, Printed, Lithographed or Produced by any Similar and/or Substitute Process for Printing and/or Lithographing.

Claims use since July, 1903.

Ser. No. 419,343. NAVY, INC., Norfolk, Va. Filed May 12, 1939.

NAVY PICTORIAL NEWS

The portrait is fanciful.

For Periodical.

Claims use since 1935.

Ser. No. 419,432. NATIONAL TRAVELERS AID ASSOCIATION, New York, N. Y. Filed May 15, 1939.

TRAVELERS AID

For Magazines.

Claims use since July, 1925.

CLASS 39

Clothing

Ser. No. 407,669. FASHION HOSIERY STORES, INC., Pittsburgh, Pa. Filed June 20, 1938.

Fashion Hosiery Shops

fashionware HARD TO TEAR

The representation of the stocking and the wording "Fashion Hosiery Shops", "Hard to Tear", and "Fashionware" are disclaimed apart from the mark.

For Ladies' Hosiery.

Claims use since Jan. 13, 1938.

Ser. No. 410,454. COOPERS, INCORPORATED, Kenosha, Wis. Filed Sept. 12, 1938.

GART-TOP

Applicant disclaims the syllable "Top" apart from the mark.

For Men's Hose.

Claims use since Mar. 25, 1936.

Ser. No. 412,609. ALBERT LEVY, Amsterdam Netherlands. Filed Nov. 10, 1938.

PALO

For Women's and Children's Wearing Apparel—Namely, Stockings; Socks; Fabric Shoes; Chemises; Envelope-Chemises; Pantalets; Combinations Consisting of Pantalets and/or Chemises and/or Underskirts; Nightgowns; Underskirts; Pajamas; Morning Wrappers; Powdering Gowns; Blouses; Bed Jackets; Brassières and Corsets.

Claims use since Aug. 9, 1934.

Ser. No. 417,213. GARFINKEL & RITTER, New York, N. Y. Filed Mar. 18, 1939.

BRYN MODE

The word "Mode" is disclaimed.

For Women's Lingerie—Namely, Chemises, Panties, Night-Gowns, Pajamas, Slips, Brassières, Negligees, and Corsets.

Claims use since Feb. 19, 1935.

Ser. No. 417,658. SOUTH JERSEY UNDERWEAR CO. INC., New York, N. Y. Filed Mar. 30, 1939.

KNEE-ACTION SLIP

IT STAYS DOWN

The words "Slip" and "It Stays Down" are disclaimed apart from the mark.

For Women's and Children's Slips.

Claims use since August, 1938.

Ser. No. 418,204. MURIEL SILK UNDERGARMENT CO. INC., New York, N. Y. Filed Apr. 13, 1939.

PRINCESS *Barbara*

For Ladies' Silk Underwear and Slips.

Claims use since Jan. 3, 1938.

Ser. No. 418,444. HARRY JACOBSON, doing business as Harmol Manufacturing Co., New York, N. Y. Filed Apr. 19, 1939.

Gabiki

For Sports Trunks, Athletic Shirts, and Athletic Warm-Up Jackets for Men, Women, and Children.

Claims use since 1935.

Ser. No. 418,526. NATIONAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Filed Apr. 21, 1939.

AIR FILM

No claim is made to the term "Film" apart from the mark.

For Hosiery.

Claims use since Mar 18, 1939.

Ser. No. 418,803. DAVE BECK, INC., New York, N. Y. Filed Apr. 28, 1939.

Deeds

For Men's Furnishings, as Follows—Outer Shirts, Under Shirts, Hosiery, Neckties, Braces, and Garters.

Claims use since Jan. 1, 1938.

Ser. No. 418,831. SALLY GREEN, St. Louis, Mo. Filed Apr. 28, 1939.

Sally Green

The name "Sally Green" is a facsimile signature of the applicant.

For Women's Shirts.

Claims use since Apr. 25, 1939.

Ser. No. 418,886; WILLIAM NETZKY, doing business as Susquehanna Waist Company, Philadelphia, Pa. Filed Apr. 29, 1939.

SHIP 'N SHORE

For Ladies' Sportswear Outer Garments—Namely, Shorts, Skirts, and Shirts.

Claims use since Apr. 20, 1939.

Ser. No. 419,079. LA CROSSE RUBBER MILLS CO., La Crosse, Wis. Filed May 4, 1939.

VITA-L-IZED

For Shoes, Overshoes, and Boots Made of Rubber or Partly of Rubber.

Claims use since Apr. 13, 1939.

Ser. No. 419,144. COHEN, GOLDMAN & CO., INC., New York, N. Y. Filed May 6, 1939.

Tropi-Crash

The word "Crash" is disclaimed apart from the mark.

For Men's, Boys' and Children's Outer Garments, Consisting of Coats, Vests, Pants, and Trousers; also Men's Overcoats and Topcoats; also Women's Overcoats, Topcoats and Suits, Consisting of Outer Coat, Ensemble, Vest and Skirt.

Claims use since Oct. 1, 1928.

Ser. No. 419,201. UNIVERSAL GLOVE COMPANY, Toledo, Ohio. Filed May 8, 1939.



For Work Gloves and Work Mittens of Fabric, Leather, and Combinations Thereof.

Claims use since Oct. 28, 1938.

Ser. No. 419,470. BELDING HEMINWAY COMPANY, New York, N. Y. Filed May 16, 1939.

Corticelli



For Men's, Women's, and Children's Underwear.

Claims use since Oct. 11, 1920.

Ser. No. 419,480. HANAN & SON, INC., New York, N. Y. Filed May 16, 1939.

HANAN'S HURDLER

For Shoes Made of Leather or Fabric or Combinations Thereof.

Claims use since Feb. 27, 1939.

Ser. No. 419,528. SCHOLLER BROTHERS, INC., Philadelphia, Pa. Filed May 17, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

Dura Beau

For Hosiery.

Claims use since Apr. 17, 1939.

Ser. No. 419,673. MICHAELS, STERN & CO. INC., Rochester, N. Y. Filed May 22, 1939.

Beqqars Bush

For Men's and Boys' Suits and Topcoats.

Claims use since Mar. 16, 1939.

Ser. No. 419,674. MICHAELS, STERN & CO. INC., Rochester, N. Y. Filed May 22, 1939.

Kalamara

For Men's and Boys' Overcoats.

Claims use since July 14, 1938.

Ser. No. 419,719. SAMUEL GOLDBERG, New York, N. Y. Filed May 23, 1939.

Bob-Craft

For Men's Suits, Topcoats, and Overcoats.

Claims use since Apr. 18, 1939.

Ser. No. 419,731. ALEXANDER NATHANSON, Springfield, Mass. Filed May 23, 1939.

NUTRIX

For Nurses' Uniforms.

Claims use since Apr. 27, 1939.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 411,773. THOMAS FRENCH & SONS, LTD., New York, N. Y. Filed Oct. 19, 1938.



TU-TONE

Applicant disclaims the word "Tu-Tone" except as shown.

For Ladder Webbing.

Claims use since May 6, 1938.

Ser. No. 418,613. WALDES KOH-I-NOOR, INC., Long Island City, N. Y. Filed Apr. 22, 1939.

PERFEX

For Metal Clips Intended to be Used in Place of Pins or Similar Fastening Devices for Keeping in Folded Condition Shirts, Underwear, or Other Folded Merchandise and Used for Fastening or Holding Together Separate Pieces or Several Layers of Fabrics or Other Suitable Merchandise.

Claims use since Apr. 11, 1939.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 413,818. COLONIAL COVERLET COMPANY, INC., Chattanooga, Tenn. Filed Dec. 14, 1938.

Featherdale
CHENILLE SPREAD



COLONIAL COVERLET CO Inc
CHATTANOOGA TENN

Applicant disclaims the words "Chenille Spread" and "Chattanooga, Tenn." apart from the mark.
For Bedspreads.
Claims use since Oct. 15, 1938.

Ser. No. 417,116. CALLAWAY MILLS, LaGrange, Ga. Filed Mar. 16, 1939.

RUB-ER-LOV

For Cotton Piece Goods—Namely, Duck, Cord Tire Fabric, Cord Hose Fabric, and Cord Belting Fabric.
Claims use since Feb. 23, 1939.

Ser. No. 417,413. LOUIS NEWMAN, New York, N. Y. Filed Mar. 23, 1939.

SHAD' OTWILL

The word "Twill" is disclaimed apart from the mark.
For Textile Fabrics in the Piece—Namely, Woolens and Worsteds.
Claims use since Feb. 1, 1939.

Ser. No. 418,558. WILLIAM BASSER TEXTILE CORP., New York, N. Y. Filed Apr. 22, 1939.

WAVE Crest

For Silk, Rayon, Woolen, and Worsted Textile Fabrics in the Piece Used in the Manufacture of Ladies' Dresses and Blouses.
Claims use since July 5, 1938.

Ser. No. 419,557. NATIONAL FABRICS CORPORATION, New York, N. Y. Filed May 18, 1939.



For Textile Fabrics in the Piece—Namely, Silk Fabrics, Rayon Fabrics, Fabrics Consisting of a Mixture of Rayon and Silk, and Cotton, Woolen, or Linen Fabrics.
Claims use since Feb. 8, 1938.

Ser. No. 419,671. KNICKERBOCKER TEXTILE CORP., New York, N. Y. Filed May 22, 1939.

COROSA

For Silk, Rayon, Rayon and Silk, and Acetate Piece Goods.
Claims use since April, 1938.

Ser. No. 419,754. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed May 24, 1939.

KARA-FURN

For Rugs.
Claims use since Jan. 20, 1939.

Ser. No. 419,791. M. STANLEY BROWN, New York, N. Y. Filed May 25, 1939.

Gilnockie

For Textile Fabrics in the Piece Made of Wool, Cotton, Silk, Rayon, and Mixtures Thereof.
Claims use since Mar. 15, 1939.

Ser. No. 419,796. DAVID CRYSTAL, INC., New York, N. Y. Filed May 25, 1939.

CRISPOLINE

For Textile Fabrics in the Piece of Silk, Rayon, Cotton, Linen, and Combinations Thereof.
Claims use since Apr. 19, 1939.

Ser. No. 419,838. BEACON MANUFACTURING COMPANY, Swannanoa, N. C. Filed May 26, 1939.

LOTUS

For Blankets Made of Cotton or Cotton and Wool.
Claims use since Feb. 15, 1939.

Ser. No. 419,839. BEACON MANUFACTURING COMPANY, Swannanoa, N. C. Filed May 26, 1939.

FAUNA

For Blankets Made of Cotton or Cotton and Wool.
Claims use since Apr. 15, 1939.

Ser. No. 420,063. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y. Filed June 1, 1939.

Taylora

For Fabrics in the Piece of Worsted, Flannel, Cotton, Silk, Rayon, Wool, Linen, and/or Combinations Thereof.
Claims use since Dec. 13, 1938.

Ser. No. 420,065. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y. Filed June 1, 1939.

Twillure

For Fabrics in the Piece of Worsted, Flannel, Cotton, Silk, Rayon, Wool, Linen, and/or Combinations Thereof.
Claims use since Dec. 13, 1938.

Ser. No. 420,068. E. S. MENDELSON & CO. INC., New York, N. Y. Filed June 1, 1939.

BROCOLAINE

For Rayon or Silk and the Combination of Rayon or Silk Fabrics in the Piece, Comprising Rayon, Silk, Cotton, and Wool Yarn and Mixtures Thereof.
Claims use since Mar. 1, 1939.

Ser. No. 420,113. PORETZ BROS., INC., New York, N. Y. Filed June 2, 1939.

PRIMOKURL

For Piece Goods of Rayon, Wool, and Cotton, i. e., Knitted Astrakan.
Claims use since April, 1938.

CLASS 43

Thread and Yarn

Ser. No. 419,007. BERNHARD ULMANN CO. INC., New York, N. Y. Filed May 3, 1939.

TRICOLAINE

For Hand-Knitting Wool Yarns.
Claims use since Apr. 27, 1939.

Ser. No. 419,418. J. W. DROLL COMPANY, Chicago, Ill. Filed May 15, 1939.

DROCO

For Thread for Use in Connection With Machines for Border Quilting Mattresses.
Claims use since May 4, 1939.

Ser. No. 419,611. THE D. M. C. CORPORATION, New York, N. Y. Filed May 20, 1939.

SUPERBA

For Cotton Threads and Yarns.
Claims use since Mar. 18, 1939.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 405,982. BIRKENSTOCK GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Friedberg, Germany. Filed May 4, 1938.

FUSSBETT

For Arch-Supports and Orthopaedic Insoles.
Claims use since 1906.

Ser. No. 413,419. LOUIS M. SCHAEFFER, doing business as Schaeffer Products Company, Cleveland, Ohio. Filed Dec. 2, 1938.

Samson

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since May 1, 1934.

Ser. No. 418,255. MERZ & CO., CHEMICAL WORKS, INC., Newark and East Orange, N. J. Filed Apr. 14, 1939.

IATROS

For Medical and Surgical Appliances—Namely, Prophylactic Rubber Articles for the Prevention of Contagious Diseases, Contraceptive Pessaries, Obstetrical Instruments, Injection Syringes and Needles, Corrective Pessaries, Catgut, Surgical Silk, Metreurynters Made From Rubber or Animal Bladders, Cervical Dilators, Diagnostic Appliances, Mechanotherapeutic Appliances, Electrotherapeutic Appliances, X-Ray Equipment, Dental Appliances—Namely, Dental Injection Syringes, and Sterilizing Apparatus for Dental Syringes.

Claims use since Feb. 24, 1939.

Ser. No. 419,395. LOUIS M. REHTHALER, Battle Creek, Mich. Filed May 13, 1939.

TRADE MARK LMR REHTHALER BRAND

No claim is made to the words "Trade", "Mark", and "Brand" apart from the mark.

For Sacro-Iliac and Abdominal Supporters.

Claims use since January, 1937.

Ser. No. 419,645. CALDWELL PRODUCTS, INC., Mt. Vernon, N. Y. Filed May 20, 1939.

PROP-O-LITE

"Prop" and "Lite" are disclaimed apart from the mark.

For Mouth Props.

Claims use since Dec. 1, 1936.

Ser. No. 420,280. EDWARD J. HANDLER, doing business as Edward Handler & Son, Newark, N. J. Filed June 8, 1939.

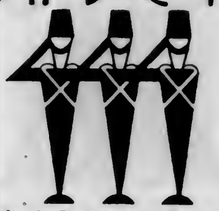
Knock-Out

For Flasks for Making Dental Castings.

Claims use since Sept. 10, 1937.

Ser. No. 420,341. JULIUS SCHMID, INCORPORATED, New York, N. Y. Filed June 9, 1939.

CADETS



For Prophylactic Rubber and Membranous Articles for the Prevention of Contagious Diseases.

Claims use since April, 1934.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 416,287. HELEN ENGELMAN, Edinburg, Tex. Filed Feb. 21, 1939.

WON-UP

For Non-Alcoholic, Maltless Beverages Sold as Soft Drinks and Citrus Juices and Citrus Extracts Used for and in the Making of the Same.

Claims use since Apr. 23, 1935, on citrus juices and extracts; since Jan. 12, 1939, on beverages per se.

Ser. No. 417,539. GOOD HEALTH BEVERAGE CO., Pittsfield, Mass. Filed Mar. 27, 1939.



For Soda Water.

Claims use since October, 1937.

Ser. No. 419,912. GRANDPA BRANDS COMPANY, doing business as Tom Collins Jr. Company and A. J. Lehman Company, Cincinnati, Ohio. Filed May 27, 1939.

LEMMY

For Non-Alcoholic Maltless Beverages Sold as Soft Drinks, and for the Concentrates Thereof, and the Flavoring Extracts Used in Making the Same.

Claims use since Apr. 27, 1939.

Ser. No. 420,344. ST. LOUIS CRYSTAL WATER AND SODA COMPANY, St. Louis, Mo. Filed June 9, 1939.

BINGO

For Non-Alcoholic Maltless Soft Drink.

Claims use since Oct. 8, 1937.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 391,014. ARNOLD ROLL, Brooklyn, N. Y. Filed Apr. 6, 1937.

TOPS-ALL Quality FARM EGGS

Applicant disclaims the words "Quality Farm Eggs" apart from the mark.

Fresh Eggs.

Claims use since Jan. 11, 1937.

Ser. No. 412,440. COMMERCIAL MOLASSES CORPORATION, New York, N. Y. Filed Nov. 7, 1938.

COMOL

For Molasses Intended for Use in Feeds for Poultry, Livestock, or Other Domestic Animals.

Claims use since Oct. 8, 1938.

Ser. No. 412,452. M. W. MCLAREN, Salinas, Calif. Filed Nov. 7, 1938.

LITTLE Mc's

For Fresh Vegetables.

Claims use since Oct. 29, 1938.

Ser. No. 417,105. SOKOL BRAND PRODUCTS, INC., New York, N. Y. Filed Mar. 15, 1939.



SOKOL

For Canned Ham.

Claims use since Mar. 1, 1939.

Ser. No. 418,199. HAWLEY & HOOPS, New York, N. Y. Filed Apr. 13, 1939.

IT'S THE BERRIES

Applicant is owner of registration No. 143,038, dated May 24, 1921.

For Candy.

Claims use since Mar. 13, 1939.

Ser. No. 418,329. CALIFORNIA FOODS, INC., Montebello, Calif. Filed Apr. 17, 1939.

CAL-FOOD

No claim is made to the word "Food" apart from the mark.

For Canned Fruits, Canned Vegetables, Diced Melon Cubes, and Candied Fruit Centers.

Claims use since Mar. 27, 1939.

Ser. No. 418,458. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Apr. 19, 1939.

Dorothy Vernon

The mark is the name of the character Dorothy Vernon, in the book "Dorothy Vernon of Haddon Hall".

For Candies.

Claims use since Sept. 1, 1936.

Ser. No. 418,573. GENERAL BAKING COMPANY, New York, N. Y. Filed Apr. 22, 1939.



The specimens show a green border design and red representation of a seal and these colors are claimed as features of the mark.

Applicant is the owner of registrations Nos. 98,903, dated August 4, 1914; 109,864, dated April 18, 1916; 159,357, dated September 26, 1922; 159,878, dated October 10, 1922; 159,879, dated October 10, 1922; 167,085, dated April 24, 1923; 167,270, dated April 24, 1923; 172,460, dated August 28, 1923; 201,222, dated July 21, 1925; 201,259, dated July 21, 1925; 204,027, dated October 6, 1925; 205,888, dated November 17, 1925; 265,108, dated December 17, 1929; 266,338, dated January 14, 1930; 284,246, dated June 23, 1931; 340,235, dated November 3, 1936. No claim is made to any wording apart from the mark except "Bakers of Bond Bread", "Bond", and "General Baking Company".

For Bread.

Claims use since June 27, 1938.

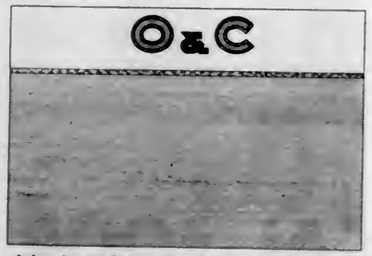
Ser. No. 418,922. FILLMORE CITRUS ASSOCIATION, Fillmore, Calif. Filed May 1, 1939.

LEGAL TENDER

For Fresh Citrus Fruit.

Claims use since 1922.

Ser. No. 418,938. OLNEY & CARPENTER, INC., Wolcott, N. Y. Filed May 1, 1939.



No claim is made to the representation of the label. The drawing is lined for blue and gold.

For Canned Potato Sticks.

Claims use since Nov. 1, 1935.

Ser. No. 418,974. C. A. GREINER, New Orleans, La. Filed May 2, 1939.

DAVY JONES

The trade-mark is a lengendary phrase signifying the spirit of the sea.

For Canned Fish and Canned Shellfish.

Claims use since Feb. 9, 1939.

Ser. No. 419,091. ST. LOUIS RICE MILLING COMPANY, St. Louis, Mo. Filed May 4, 1939.



For Brewer's Rice.

Claims use since Dec. 17, 1937.

Ser. No. 419,317. SPAREWAY FOOD PRODUCTS, INC., New York, N. Y. Filed May 11, 1939.

Melomaise

For Mayonnaise.

Claims use since May, 1938.

Ser. No. 419,399. WILLIAM S. SCULL COMPANY, Camden, N. J. Filed May 13, 1939.

Padra

For Tea.

Claims use since September, 1882.

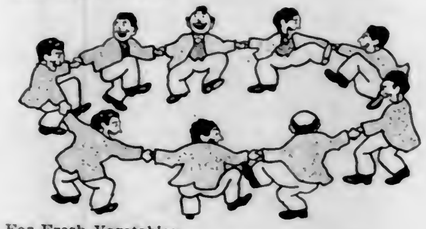
Ser. No. 419,419. O. O. EATON, Watsonville, Calif. Filed May 15, 1939.

VITA KIST

For Fresh Vegetables.

Claims use since Apr. 17, 1939.

Ser. No. 419,447. PAUL P. SCHOENBURG, Salinas, Calif. Filed May 15, 1939.



For Fresh Vegetables.

Claims use since May 15, 1930.

Ser. No. 419,462. WILLIAMSON CANDY COMPANY, Chicago, Ill. Filed May 15, 1939.

"LINGER LONGER"

For Candy.

Claims use since Apr. 26, 1939.

Ser. No. 419,569. ANDERSEN-SMITH MILLING CO., San Francisco, Calif. Filed May 19, 1939.

DOUBLE CHECK

ANALBIOCHEKED

The applicant is the owner of trade-mark registration No. 219,500.

For Dog Ration.

Claims use since Apr. 5, 1939.

Ser. No. 419,592. RALPH E. MYERS, doing business as Ralph E. Myers Co., Salinas, Tex. Filed May 19, 1939.

REMCO

For Fresh Vegetables.

Claims use since Apr. 6, 1939.

CLASS 48

Malt Beverages and Liquors

Ser. No. 411,168. IROQUOIS BEVERAGE CORPORATION, Buffalo, N. Y. Filed Oct. 1, 1938.



No claim is made to the oval label per se or to the words "Ale", "Porter", and "Half and Half" apart from the mark. The drawing is lined for green, orange, and red.

For Ale, Porter, and Half and Half—That is Half Ale and Half Porter.

Claims use since December, 1936.

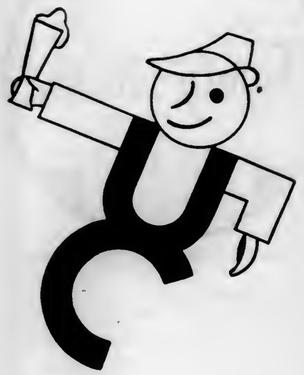
Ser. No. 417,030. EDWARD FRETWELL PRICHARD, Paris, Ky. Filed Mar. 13, 1939.



For Beer, Ale, Porter, and Stout.

Claims use since Apr. 29, 1935.

Ser. No. 419,898. THE WEST END BREWING COMPANY, Utica, N. Y. Filed May 26, 1939.



For Beer and Ale.

Claims use since May 10, 1939.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 417,266. ALFRED S. DANEMAN, doing business as Planefilm Division, Dayton, Ohio. Filed Mar. 20, 1939.



No claim is made to the word "Planefilm" apart from the mark.

For Tough Flexible Film Formed of Plastic Cellulosic Material Adapted to be Cut to Size and Shape and Secured to the Frames of Aircraft or the Like as a Covering Therefor.

Claims use since Jan. 18, 1939.

Ser. No. 417,305. SCHUESSLER, HAMILTON COMPANY, St. Louis, Mo. Filed Mar. 20, 1939.

Safety-thirst

No claim is made to the word "Safety" apart from the mark.

For Drinking Straws.
Claims use since Mar. 14, 1939.

Ser. No. 417,306. SCHUESSLER, HAMILTON COMPANY, St. Louis, Mo. Filed Mar. 20, 1939.

THIRST-AID

For Drinking Straws.
Claims use since Mar. 14, 1939.

Ser. No. 419,816. NAAMLOOZE VENNOOTSCHAP MAATSCHAPPIJ VOOR WASVERWERKING, Amersfoort, Netherlands. Filed May 25, 1939.

RONKA

For Fly-Catchers and Fly-Ribbons.
Claims use since July 1, 1934.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 18, 1939

369,104. PUBLICATION ISSUED PERIODICALLY. ESQUIRE-CORONET, INC., Chicago, Ill., assignor to Ken, Inc., Chicago, Ill., a corporation of Delaware.
Filed July 17, 1937. Serial No. 395,339. PUBLISHED MAY 9, 1939. Class 38.

369,105. MEDICINAL PREPARATION FOR INJECTION OR EMBROCATION IN FORM OF SOLUTIONS OR OINTMENTS TAKEN FROM SNAKE OIL, AND USED IN THE TREATMENT OF RHEUMATISM, LUMBAGO, MYALGIA, NEURALGIA, ASTHMA, ETC. SAPEWA PHARMAZEUTISCHE PRÄPARATE ERNST F. P. WESCHE, Berlin, Germany.
Filed August 20, 1937. Serial No. 396,614. PUBLISHED FEBRUARY 8, 1938. Class 6.

369,106. ANTHRACITE COAL. SUSQUEHANNA COLLIERIES COMPANY, Cleveland, Ohio.
Filed October 7, 1937. Serial No. 398,266. PUBLISHED MAY 9, 1939. Class 1.

369,107. CANNED FISH, CANNED FRUITS, CANNED VEGETABLES, CANNED BERRIES, POTTED MEATS, ETC. L. COHEN GROCER COMPANY, St. Louis, Mo.
Filed October 12, 1937. Serial No. 398,391. PUBLISHED FEBRUARY 7, 1939. Class 46.

369,108. PRESSURE TANKS AND HOT WATER AND STEAM BOILERS FOR HEATING AND POWER PURPOSES. FARRAR & TREFTS, INCORPORATED, Buffalo, N. Y.
Filed November 19, 1937. Serial No. 399,924. PUBLISHED MAY 9, 1939. Class 34.

369,109. MODIFIED SODA ASH USED TO STANDARDIZE THE ACIDITY IN CREAM USED FOR MANUFACTURING PURPOSES. THE J. B. FORD COMPANY, Wyandotte, Mich.
Filed January 20, 1938. Serial No. 402,121. PUBLISHED MAY 2, 1939. Class 6.

369,110. STEEL JOISTS AND STEEL WIRE MESH FOR CONCRETE REINFORCEMENT. LACLEDE STEEL COMPANY, St. Louis, Mo.
Filed January 28, 1938. Serial No. 402,427. PUBLISHED MAY 9, 1939. Class 12.

369,111. PREPARATION FOR IMPROVING THE BINDING AND SETTING PROPERTIES OF CEMENT, PLASTER, AND OTHER SIMILAR CONSTRUCTION MATERIALS WHEN ADDED THERETO, EXCLUDING GYPSUM PLASTERS. KASPAR WINKLER & Co., Altstetten, Switzerland.
Filed February 9, 1938. Serial No. 402,883. PUBLISHED OCTOBER 11, 1938. Class 12.

369,112. PIECE GOODS OF SATIN, SILK, ARTIFICIAL SILK, MIXTURES OF SILK AND ARTIFICIAL SILK, SILK AND WOOL, AND SILK AND COTTON. WILLIAM SKINNER & SONS, Holyoke, Mass., and New York, N. Y.
Filed February 14, 1938. Serial No. 403,019. PUBLISHED MAY 9, 1939. Class 42.

369,113. TANNING AGENTS AND TEXTILE ASSISTANTS IN THE NATURE OF WETTING AGENTS, IMPREGNATING AGENTS, STIFFENING AGENTS, FINISHING AGENTS, AND MORDANTS. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed February 26, 1938. Serial No. 403,477. PUBLISHED MAY 9, 1939. Class 6.

369,114. TANNING AGENTS AND TEXTILE ASSISTANTS IN THE NATURE OF WETTING AGENTS, IMPREGNATING AGENTS, STIFFENING AGENTS, FINISHING AGENTS, AND MORDANTS. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed February 26, 1938. Serial No. 403,479. PUBLISHED MAY 9, 1939. Class 6.

369,115. CREAM-LIKE SPERMICIDAL SUBSTANCES FOR TREATMENT OF BODY TISSUES. WHITTAKER LABORATORIES, INC., New York, N. Y.
Filed March 2, 1938. Serial No. 403,623. PUBLISHED MAY 2, 1939. Class 6.

369,116. COVERS FOR INGOT MOLDS. HARBISON-WALKER REFRACTORIES COMPANY, Pittsburgh, Pa.
Filed March 4, 1938. Serial No. 403,686. PUBLISHED MAY 9, 1939. Class 50.

369,117. POWDER PUFFS. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed March 12, 1938. Serial No. 403,991. PUBLISHED MAY 9, 1939. Class 29.

369,118. BEER. RENO BREWING COMPANY, INC., Reno, Nev.
Filed March 25, 1938. Serial No. 404,490. PUBLISHED MAY 9, 1939. Class 48.

369,119. SYRINGE CABINETS. LESTER L. FINDLEY, doing business as The Cab-Ni-Tex Company, Los Angeles, Calif.
Filed March 16, 1938. Serial No. 404,197. PUBLISHED MAY 9, 1939. Class 32.

369,120. CALCIUM CARBIDE. NATIONAL CARBIDE CORPORATION, New York, N. Y.
Filed March 18, 1938. Serial No. 404,226. PUBLISHED APRIL 25, 1939. Class 6.

369,121. SHEET METAL TANKS, SHEET METAL BINS, STEEL BARRELS, SHEET METAL SILOS, CARRYING CANS, GARBAGE CANS, TRASH CANS, HOG TROUGHS, MORTAR BOXES, AND SHEEP TROUGHS. COLUMBIAN STEEL TANK COMPANY, Kansas City, Mo.
Filed April 18, 1938. Serial No. 405,383. PUBLISHED APRIL 25, 1939. Class 2.

369,122. FRUIT AND VEGETABLE JUICES FOR FOOD PURPOSES. CENTRAL CALIFORNIA PRODUCERS, Oakland, Calif.
Filed April 19, 1938. Serial No. 405,437. PUBLISHED MAY 9, 1939. Class 46.

369,123. GASOLINE, MOTOR OILS, AND AUTOMOBILE GREASES. UNITED REFINING CO., Russell, Kans.
Filed April 25, 1938. Serial No. 405,707. PUBLISHED MAY 9, 1939. Class 15.

369,124. PREPARATION FOR IMPROVING THE BINDING AND SETTING PROPERTIES OF CEMENT, PLASTER, AND OTHER SIMILAR CONSTRUCTION MATERIALS WHEN ADDED THERETO, EXCLUDING GYPSUM PLASTERS. KASPAR WINKLER & Co., Altstetten, Switzerland.
Filed April 29, 1938. Serial No. 405,865. PUBLISHED OCTOBER 11, 1938. Class 12.

369,125. FABRICS IN THE PIECE OF COTTON, SILK, WOOL, LINEN, AND/OR COMBINATIONS THEREOF, AND WORSTED IN THE PIECE. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y.
Filed April 30, 1938. Serial No. 405,883. PUBLISHED MAY 9, 1939. Class 42.

369,126. COMPOUND USED FOR REMOVING COSMETICS FROM FABRICS. PATEK & Co., San Francisco, Calif.
Filed May 31, 1938. Serial No. 406,937. PUBLISHED AUGUST 2, 1938. Class 4.

369,127. MASONRY CEMENT, STUCCO, AND A PLASTIC CEMENT—I. E., A PRODUCT DESCRIBED IN AND PRODUCED BY THE METHODS STATED IN UNITED STATES LETTERS PATENT NOS. 1,993,924 AND 1,912,883, RESPECTIVELY. PINE HILL LIME & STONE COMPANY, Pine Hill, Ky.
Filed July 5, 1938. Serial No. 408,205. PUBLISHED MAY 9, 1939. Class 12.

369,128. DRY KILNS. MOORE DRY KILN COMPANY OF OREGON, North Portland, Oreg.
Filed July 13, 1938. Serial No. 408,469. PUBLISHED MAY 9, 1939. Class 34.

369,129. GASOLINE. STATEN ISLAND HOME UTILITIES, INC., Port Richmond and Staten Island, N. Y.
Filed July 30, 1938. Serial No. 409,113. PUBLISHED APRIL 25, 1939. Class 15.

369,130. DRAFT CONTROL DAMPERS FOR FURNACES, HEATING PLANTS, GAS FIRED FURNACES, STOKER FIRED FURNACES, LARGE COMMERCIAL HEATING PLANTS AND FURNACES AND WHEREVER THE DRAFT THROUGH A FLUE PIPE IS TO BE CONTROLLED. ROYE W. FRANKS, doing business as Windmaster Draft Control Co., Portland, Oreg.
Filed August 22, 1938. Serial No. 409,841. PUBLISHED MAY 9, 1939. Class 34.

369,131. PERFUME, ROUGE, PERFUMED BATH SALTS, PINE BATH OIL, BATH POWDER, LIQUID FOAM SOLUTION FOR THE BATH, LIPSTICK, FACE POWDER, SACHET, EAU DE COLOGNE, CLEANSING CREAM, LIQUID RUBBING SOLUTION, DEODORANT, AND TALCUM POWDER. ERWYN PRODUCTS INC., New York, N. Y.
Filed August 26, 1938. Serial No. 409,993. PUBLISHED MAY 9, 1939. Class 6.

369,132. TIRES. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed August 30, 1938. Serial No. 410,107. PUBLISHED MAY 9, 1939. Class 35.

369,133. WATER AND BRINE TREATING COMPOSITION FOR RUST AND SCALE PREVENTION AND REMOVAL, AND WATER SOFTENING. THE ORGANITE COMPANY, Detroit, Mich.
Filed September 7, 1938. Serial No. 410,337. PUBLISHED APRIL 25, 1939. Class 6.

369,134. NECKLACE CLASPS AND SNAPS AND OTHER ARTICLES OF JEWELRY, NOT INCLUDING WATCHES, MADE OF PLATINUM, GOLD, ROLLED AND FILLED GOLD, AND STERLING SILVER. HARRY C. SCHICK, INC., Newark, N. J.
Filed September 10, 1938. Serial No. 410,439. PUBLISHED MAY 9, 1939. Class 28.

369,135. BUTTER, CHEESE, MILK, AND CREAM. HICKORY DAIRY CO., Holly, Mich.
Filed September 12, 1938. Serial No. 410,467. PUBLISHED MAY 9, 1939. Class 46.

369,136. ICE CREAM, ICES, SHERBETS, AND FROZEN MILK CONFECTIONS. RUSSELL STOVER, doing business as Zephyr Freeze Company, Kansas City, Mo.
Filed September 14, 1938. Serial No. 410,561. PUBLISHED MAY 9, 1939. Class 46.

369,137. BAKING POWDER, CANDY, CANNED AND BOTTLED FRUITS, CANNED PIMIENTOS, CANNED VEGETABLES, CATSUP, CHEWING GUM, CHOCOLATE, ETC. THE GRAND UNION COMPANY, New York, N. Y.
Filed October 7, 1938. Serial No. 411,375. PUBLISHED MAY 9, 1939. Class 46.

369,138. RAYON AND ACETATE PIECE GOODS. ARTHUR S. HEIMAN, INC., New York, N. Y.
Filed October 10, 1938. Serial No. 411,455. PUBLISHED MAY 9, 1939. Class 42.

369,139. PLANT-GROWING COMPOUNDS IN THE NATURE OF A CHEMICAL SUBSTANCE TO CAUSE AND SUBSEQUENTLY REGULATE THE DEVELOPMENT OF ROOTS AND ALSO TO BRING ABOUT THE TAKING OR KNITTING OF GRAFTS AND THE REMARGINATION OF THE SURFACE TISSUES OF PLANTS. RADIX SOCIEDAD DE RESPONSABILIDAD, LIMITADA, Buenos Aires, Argentina.
Filed October 28, 1938. Serial No. 412,152. PUBLISHED APRIL 25, 1939. Class 10.

369,140. MAGAZINE. ROY T. BRAMSON, doing business as The Bramson Publishing Company, Detroit, Mich., assignor to The Bramson Publishing Company, Detroit, Mich.
Filed October 29, 1938. Serial No. 412,168. PUBLISHED MAY 9, 1939. Class 38.

369,141. BAGS AND MERCHANDISE ENVELOPES OF CELLULOSE FILM OR SIMILAR TRANSPARENT SHEETING. THE DOBECKMUN COMPANY, Cleveland, Ohio.
Filed November 3, 1938. Serial No. 412,332. PUBLISHED APRIL 25, 1939. Class 2.

369,142. BEER. MATHIE-RUDER BREWING COMPANY, Wausau, Wis.
Filed November 3, 1938. Serial No. 412,350. PUBLISHED MAY 9, 1939. Class 48.

369,143. ANTISEPTIC SOLUTION. BURDICK LABORATORIES, Los Angeles, Calif.
Filed November 8, 1938. Serial No. 412,494. PUBLISHED APRIL 25, 1939. Class 6.

369,144. SKIN LOTION. TRANSPEC COMPANY, Toronto, Ontario, Canada.
Filed November 9, 1938. Serial No. 412,565. PUBLISHED APRIL 25, 1939. Class 6.

369,145. INDUSTRIAL FURNACES, HEAT TREATING OVENS, DRYERS, PICKLING BATHS AND QUENCHES, CERAMIC KILNS, GLASS LEHRS, GAS GENERATORS, GAS BURNERS, OIL BURNERS, AND STOKERS. WILLIAM A. DARRAH, Chicago, Ill.
Filed November 10, 1938. Serial No. 412,595. PUBLISHED MAY 9, 1939. Class 34.

369,146. PENETRATING OINTMENT FOR USE IN THE TREATMENT OF RHEUMATISM, NEURALGIA, CHEST COLDS, ABRASIONS, SPRAINS, BACKACHES, AND TIREDNESS. JOSEPH A. REYES, doing business as Korona Drug Co., Stockton, Calif.
Filed November 12, 1938. Serial No. 412,667. PUBLISHED APRIL 4, 1939. Class 6.

369,147. BELT DRESSING FOR PREVENTING THE SLIPPING OF MACHINE BELTING. T. NOTON, Oldham, England.
Filed November 16, 1938. Serial No. 412,826. PUBLISHED MAY 9, 1939. Class 4.

369,148. MEN'S AND BOYS' LONG TROUSERS, KNICKERS, LUMBER JACKETS, MACKINAWS, BUSHCOATS. DUNRITE TROUSER COMPANY, New York, N. Y.
Filed November 19, 1938. Serial No. 412,888. PUBLISHED APRIL 25, 1939. Class 39.

369,149. HAIR SHAMPOO, AND PREPARATION FOR DANDRUFF. CHARLES F. PONCY, doing business as The Absolute Co., Ottumwa, Iowa.
Filed November 28, 1938. Serial No. 413,241. PUBLISHED MAY 2, 1939. Class 6.

369,150. LADIES' CLOAKS, COATS, AND SUITS. STYLE GARMENT COMPANY INC., Los Angeles, Calif.
Filed November 28, 1938. Serial No. 413,249. PUBLISHED APRIL 25, 1939. Class 39.

369,151. ACETIC ACID, ACETONE; ALCOHOL, DENATURED AND WOOD; ALUMINA HYDRATE, ALUMINUM STEARATE, ALUMS, ANHYDROUS AMMONIA, ETC. WISHNICK-TUMPEER, INC., Chicago, Ill.
Filed November 4, 1938. Serial No. 413,260. PUBLISHED MAY 2, 1939. Class 6.

369,152. FEATHER TREES. RUTH KAUFMAN, New York, N. Y.
Filed December 1, 1938. Serial No. 413,378. PUBLISHED MAY 9, 1939. Class 50.

369,153. PLASTIC COMPOSITIONS IN POWDERED FORM OR IN MOLDED OR CAST FORM, ALSO IN THE FORM OF SHEETS OR FILMS SUITED FOR TRANSPARENT WRAPPING, CONTAINERS, ETC. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed December 2, 1938. Serial No. 413,416. PUBLISHED MAY 9, 1939. Class 50.

369,154. LADIES' AND GIRLS' DRESSES. GOLDWATERS MERCANTILE CO., Phoenix, Ariz.
Filed December 9, 1938. Serial No. 413,631. PUBLISHED APRIL 25, 1939. Class 39.

369,155. FRUIT JUICES AND FRUIT CONCENTRATES FOR BEVERAGE PURPOSES. MONROE HARRISON, Chicago, Ill.
Filed December 12, 1938. Serial No. 413,708. PUBLISHED MAY 9, 1939. Class 45.

369,156. LUBRICATING OIL. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed December 13, 1938. Serial No. 413,802. PUBLISHED MAY 2, 1939. Class 15.

369,157. TOILET WATER, EAU DE COLOGNE, SUNTAN OIL, ESSENCE OF PERFUME, AND DEODORANT. MARCEL LEDUC, New York, N. Y.
Filed December 14, 1938. Serial No. 413,835. PUBLISHED MAY 9, 1939. Class 6.

369,158. BITUMINOUS ADHESIVES AND CEMENTS, AND LUTING MATERIALS. VEREINIOTE DEUTSCHE METALLWERKE AKTIENGESELLSCHAFT, Frankfort-on-the-Main-Heddernheim, Germany.
Filed December 14, 1938. Serial No. 413,847. PUBLISHED MAY 9, 1939. Class 12.

369,159. COMBINATION SONG BOOK AND MUSICAL TOY. MCLOUGHLIN BROS., INC., Springfield, Mass.
Filed December 15, 1938. Serial No. 413,873. PUBLISHED MAY 9, 1939. Class 22.

369,160. PUBLICATION OF READING MATTER OF INTEREST TO THE HOME ECONOMICS PROFESSION, PUBLISHED MONTHLY. HARVEY & HOWE, INC., Chicago, Ill.
Filed December 21, 1938. Serial No. 414,071. PUBLISHED MAY 9, 1939. Class 38.

369,161. GASOLINE LANTERNS, PILOT CIGARETTE LIGHTERS, WOVEN WICKS, ACETYLENE WELDING OUTFITS, OIL STOVES, AND FORCED DRAFT WINDOW VENTILATORS. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill.
Filed December 22, 1938. Serial No. 414,128. PUBLISHED MAY 9, 1939. Class 34.

369,162. LADIES' BLOUSES, DRESSES, AND SUITS. KUTTNER-DE COSTA & Co., Philadelphia, Pa.
Filed December 23, 1938. Serial No. 414,154. PUBLISHED APRIL 25, 1939. Class 39.

369,163. WATER SOFTENING APPARATUS CONSISTING PRIMARILY OF A TANK HAVING THEREIN A QUANTITY OF ZEOLITE CRYSTALS WHICH HAVE THE CHARACTERISTIC OF REMOVING CALCIUM AND MAGNESIUM FROM WATER DURING AN INTIMATE CONTACT OF WATER WITH SAID CRYSTALS WHILE THE WATER IS PASSING THROUGH SAID TANK. THE REFINITE CORPORATION, Omaha, Nebr.
Filed December 27, 1938. Serial No. 414,238. PUBLISHED MAY 9, 1939. Class 13.

369,164. SOURING AGENTS FOR CLEANING PURPOSES. ECCLESTONE CHEMICAL COMPANY, INC., Detroit, Mich.
Filed December 28, 1938. Serial No. 414,259. PUBLISHED APRIL 25, 1939. Class 6.

369,165. SOURING AGENTS FOR CLEANING PURPOSES. ECCLESTONE CHEMICAL COMPANY, INC., Detroit, Mich.
Filed December 28, 1938. Serial No. 414,260. PUBLISHED APRIL 25, 1939. Class 6.

369,166. SOLVENT PREPARATIONS, MORE PARTICULARLY FOR USE IN THE REMOVAL OF CARBON FROM THE CYLINDERS OF RECIPROCATING PUMPS AND MOTORS. HICKOK OIL CORPORATION, Toledo, Ohio.
Filed December 28, 1938. Serial No. 414,263. PUBLISHED APRIL 25, 1939. Class 6.

369,167. ELECTRIC CABLES, WIRES, AND CORDS; MATERIALS AND SUPPLIES USED FOR MOUNTING ELECTRIC CABLES, WIRES, AND CORDS; AND INSULATING COVERINGS FOR ELECTRIC CABLES, WIRES, AND CORDS. N. V. HOLLANDSCHE DRAAD- EN KABELFABRIEK, Amsterdam, Netherlands.
Filed December 29, 1938. Serial No. 414,304. PUBLISHED APRIL 25, 1939. Class 21.

369,168. MIXTURE OF PHENOLS OBTAINED FROM RESINOUS PINE WOOD USED AS AN ANTIOXIDANT FOR THE PREVENTION OF GELLING, SKINNING, AND OXIDATION IN PAINT, PAINT ENAMEL, VARNISH, PRINTING INK, LINOLEUM, RUBBER, PETROLEUM, AND THE LIKE. THE GLIDDEN COMPANY, doing business as Southern Pine Chemical Company, Cleveland, Ohio.
Filed December 30, 1939. Serial No. 414,344. PUBLISHED MAY 9, 1939. Class 6.

369,169. VANITY CASES CONTAINING ROUGE AND POWDER. HINGECO VANITIES, INC., Providence, R. I.
Filed December 30, 1938. Serial No. 414,351. PUBLISHED MAY 2, 1939. Class 6.

369,170. MEDICINAL AGENT TO STIMULATE PERIPHERAL NEUROMUSCULAR MECHANISMS UNDER THE CONTROL OF THE SYMPATHETIC NERVOUS SYSTEM SIMULATING THE EFFECTS PRODUCED BY EPHEDRINE. SMITH, KLINE & FRENCH LABORATORIES, Philadelphia, Pa.
Filed December 30, 1938. Serial No. 414,370. PUBLISHED APRIL 25, 1939. Class 6.

369,171. POST CARDS. GEMLOID CORPORATION, New York, N. Y.
Filed December 31, 1938. Serial No. 414,399. PUBLISHED MAY 9, 1939. Class 38.

369,172. TOOTH POWDER. PYCOPE INCORPORATED, Jersey City, N. J.
Filed January 4, 1939. Serial No. 414,507. PUBLISHED APRIL 25, 1939. Class 6.

369,173. WEARING APPAREL—NAMELY, LADIES' AND CHILDREN'S SHORT-NIGHTIES, SLIPS, HALF-SLIPS, GOWNS, PAJAMAS, HOUSE COATS, SLACKS, CULOTTES, PLAY-SUITS, AND SWEATERS. GALE-ROSENBAUM COMPANY, St. Louis, Mo.
Filed January 5, 1939. Serial No. 414,524. PUBLISHED APRIL 25, 1939. Class 39.

369,174. COFFEE MAKERS. THE COFFELATOR CO., Newark, N. J.
Filed January 6, 1939. Serial No. 414,555. PUBLISHED May 9, 1939. Class 13.

369,175. COAL. PRUDEN COAL & COKE COMPANY, Knoxville, Tenn.
Filed January 6, 1939. Serial No. 414,575. PUBLISHED MAY 9, 1939. Class 1.

369,176. CANNED TOMATOES. G. ROSSANO & BRO. INC., New York, N. Y.
Filed January 6, 1939. Serial No. 414,577. PUBLISHED MAY 9, 1939. Class 46.

369,177. WHISKY. WHYTE & MACKAY, LIMITED, Glasgow, Scotland.
Filed January 6, 1939. Serial No. 414,584. PUBLISHED MAY 9, 1939. Class 49.

369,178. OVERALLS FOR WOMEN. MINNEAPOLIS KNITTING WORKS, Minneapolis, Minn.
Filed January 9, 1939. Serial No. 414,635. PUBLISHED MAY 2, 1939. Class 39.

369,179. MEDICAMENT FOR USE ON BURNS, SCALDS, AND MINOR SKIN DISEASES. THE WOOD RIDGE MANUFACTURING CO., INC., Wood Ridge, N. J.
Filed January 10, 1939. Serial No. 414,673. PUBLISHED APRIL 25, 1939. Class 6.

369,180. WATCHES—NAMELY, WRIST OR STRAP WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed January 11, 1939. Serial No. 414,684. PUBLISHED MAY 9, 1939. Class 27.

369,181. LADIES' RAYON UNDERWEAR, PAJAMAS, NIGHTGOWNS, AND DRESSES. DUTCHESS UNDERWEAR CORPORATION, New York, N. Y.
Filed January 12, 1939. Serial No. 414,728. PUBLISHED APRIL 25, 1939. Class 39.

369,182. VENTILATING FANS. ESKO MANUFACTURING CORPORATION, Houston, Tex.
Filed January 12, 1939. Serial No. 414,729. PUBLISHED MAY 9, 1939. Class 34.

369,183. FACE POWDER, LIPSTICK, ROUGE, MASCARA AND EYE-SHADOW. HELENA RUBINSTEIN, INC., New York, N. Y.
Filed January 13, 1939. Serial No. 414,799. PUBLISHED MAY 2, 1939. Class 6.

369,184. TIRES AND TUBES. THE GLOBE OIL & REFINING COMPANY, Wichita, Kans.
Filed January 16, 1939. Serial No. 414,875. PUBLISHED MAY 9, 1939. Class 35.

369,185. TIRES AND TUBES. THE GLOBE OIL & REFINING COMPANY, Wichita, Kans.
Filed January 16, 1939. Serial No. 414,876. PUBLISHED MAY 9, 1939. Class 35.

369,186. THERAPEUTIC FOOD SUPPLEMENT FOR DOGS. POLK MILLER PRODUCTS CORPORATION, Richmond, Va.
Filed January 16, 1939. Serial No. 414,890. PUBLISHED MAY 2, 1939. Class 6.

369,187. OINTMENT FOR TREATMENT OF SKIN DISEASES. R. W. SHEFFIELD, Houston, Tex.
Filed January 16, 1939. Serial No. 414,898. PUBLISHED MAY 2, 1939. Class 6.

369,188. POWDER USED IN THE TREATMENT OF ATHLETE'S FOOT OR ECZEMA OF THE FEET OR SKIN. HOWARD GUY CRESS, doing business as C. F. P. Laboratories, Monticello, Ga.
Filed January 17, 1939. Serial No. 414,914. PUBLISHED APRIL 25, 1939. Class 6.

369,189. TISSUE CREAM. CARRIE JAMES, doing business as Caro-Lynn, New York, N. Y.
Filed January 18, 1939. Serial No. 414,954. PUBLISHED MAY 2, 1939. Class 6.

369,190. WOMEN'S COATS OF CAMEL HAIR. S. STROOCK & CO., INC., New York, N. Y.
Filed January 18, 1939. Serial No. 414,969. PUBLISHED APRIL 25, 1939. Class 39.

369,191. MAGNESIUM PREPARATION USED IN CASES WHERE MAGNESIUM OR COMPOUNDS OF MAGNESIUM ARE THERAPEUTICALLY INDICATED, AS FOLLOWS—IN CONVALESCENCE, ANEMIA, LIVER AND DIGESTIVE TROUBLES, ARTHRITIS, AFFECTIONS OF THE KIDNEYS AND OF THE PROSTATE GLAND, SKIN AFFECTIONS, AND FOR CANCER PROPHYLAXIS. LABORATOIRES ROMON, SOCIÉTÉ À RESPONSABILITÉ LIMITÉE, Paris, France.
Filed January 20, 1939. Serial No. 415,042. PUBLISHED MAY 2, 1939. Class 6.

369,192. PRESERVATIVES FOR FEEDS FOR LIVE STOCK, PARTICULARLY CHEMICAL PREPARATIONS ADAPTED TO KEEP HAY AND FEEDS GREEN IN SILOS. COOPERATIVE G. L. F. SOIL BUILDING SERVICE, INC., New York and Ithaca, N. Y.
Filed January 21, 1939. Serial No. 415,074. PUBLISHED MAY 9, 1938. Class 6.

369,193. POULTRY MEDICINE FOR THE TREATMENT OF COCCIDIOSIS, CHOLERA, TYPHOID, AND OTHER INTESTINAL INFECTIONS. KEWANEE LIQUIDS MANUFACTURING CO., Kewanee, Ill.
Filed January 23, 1939. Serial No. 415,125. PUBLISHED MAY 2, 1939. Class 6.

369,194. VARNISH-LIKE FINISH FOR AUTOMOTIVE EQUIPMENT AND THE LIKE. RADIANT FINISH COMPANY, Chicago, Ill.
Filed January 24, 1939. Serial No. 415,186. PUBLISHED MAY 9, 1939. Class 16.

369,195. MEN'S AND BOYS' CLOTHING MADE OF WOVEN FABRICS—NAMELY, SUITS, COATS, VESTS, TROUSERS, OVERCOATS, AND DRESS SUITS. BAKER CLOTHES INC., Philadelphia, Pa.
Filed January 23, 1939. Serial No. 415,199. PUBLISHED MAY 2, 1939. Class 39.

369,196. FRESH CITRUS FRUITS. CLAY EVERHARD, doing business as Citraland Farms, Pharr, Tex.
Filed January 25, 1939. Serial No. 415,214. PUBLISHED APRIL 25, 1939. Class 46.

369,197. LINIMENT FOR TREATING MUSCULAR ACHES AND PAINS. NICHOLAS G. BALLARD, St. Francis, Ky.
Filed January 26, 1939. Serial No. 415,239. PUBLISHED MAY 2, 1939. Class 6.

369,198. PORTABLE CASES—VIZ, TYPEWRITER AND BRIEF CASE COMBINATIONS, FILING AND LUGGAGE CASE COMBINATIONS, LUGGAGE AND BRIEF CASE COMBINATIONS, PORTABLE FILE CASES, ENVELOPE CASES, BRIEF CASES, SECRETARIAL CASES, CATALOG CASES, INSURANCE CASES, WALLETS, CORRESPONDENCE CASES, AND DRESSING CASES. NATIONAL BRIEF CASE MFG. CO., Chicago, Ill.
Filed January 26, 1939. Serial No. 415,256. PUBLISHED APRIL 25, 1939. Class 3.

369,199. CANNED MUSHROOMS. HIGHLAND SALES COMPANY, Denver, Colo.
Filed January 27, 1939. Serial No. 415,290. PUBLISHED MAY 9, 1939. Class 46.

369,200. INSULATED CONTAINER FOR RECEIVING AND PRESERVING ICE CUBES AND FOODSTUFFS. EATON MANUFACTURING COMPANY, Cleveland, Ohio.
Filed January 28, 1939. Serial No. 415,329. PUBLISHED APRIL 25, 1939. Class 2.

369,201. TOILET CREAMS IN SOLID AND UNSOLID FORM. LEIGH CHEMIST, INC., New York, N. Y.
Filed January 28, 1939. Serial No. 415,341. PUBLISHED MAY 9, 1939. Class 6.

369,202. DISINFECTANTS, GERMICIDES, AMMONIA, WITCH HAZEL, BAY RUM, HYDROGEN PEROXIDE, AND INSECTICIDES. SALEM CHEMICAL & SUPPLY CO., Salem, Mass.
Filed January 28, 1939. Serial No. 415,354. PUBLISHED APRIL 25, 1939. Class 6.

369,203. BULL PLUGS, BOILER NIPPLES, BUSHINGS, CROSSES, CHOKE NIPPLES, ELLS, FLANGE UNIONS, NIPPLES, PIPE CAPS, ROTARY HOSE CONNECTIONS, AND TEES. J. C. BRADSHAW, doing business as Oil Tool Manufacturing Co., Houston, Tex.
Filed January 30, 1939. Serial No. 415,374. PUBLISHED MAY 9, 1939. Class 13.

369,204. CORN CHIPS. THE FRITO COMPANY, Dallas, Tex.
Filed January 30, 1939. Serial No. 415,385. PUBLISHED MAY 9, 1939. Class 46.

369,205. BREAD. FINK BAKING CORPORATION, New York, N. Y.
Filed January 31, 1939. Serial No. 415,448. PUBLISHED MAY 9, 1939. Class 46.

369,206. LIPSTICK, ROUGE, FACE POWDER, EYELASH AND EYEBROW MASCARA, CREAMS FOR THE HANDS AND FACE; PREPARATIONS FOR SKIN, HAIR, AND FINGER NAILS; AND PERFUMES. ASSOCIATED DISTRIBUTORS, INC., Chicago, Ill.
Filed February 1, 1939. Serial No. 415,467. PUBLISHED MAY 2, 1939. Class 6.

369,207. LIPSTICK, ROUGE, FACE POWDER, EYELASH AND EYEBROW MASCARA, CREAMS FOR THE HANDS AND FACE; PREPARATIONS FOR SKIN, HAIR, AND FINGER NAILS; AND PERFUMES. ASSOCIATED DISTRIBUTORS, INC., Chicago, Ill.
Filed February 1, 1939. Serial No. 415,468. PUBLISHED MAY 2, 1939. Class 6.

369,208. ANTISEPTIC PREPARATIONS FOR THE TREATMENT OF PROTRUDING, BLEEDING, AND ITCHING HEMORRHOIDS (PILES). CHARLES W. PARTEE, doing business as Select Products Company, Memphis, Tenn.
Filed February 1, 1939. Serial No. 415,485. PUBLISHED MAY 2, 1939. Class 6.

369,209. DRY CLEANING MACHINERY. L. B. BILLINGSLY, doing business as L. B. Billingsly Machinery & Supply Company, Dallas, Tex.
Filed February 2, 1939. Serial No. 415,494. PUBLISHED MAY 2, 1939. Class 24.

369,210. GAS FOR CUTTING AND WELDING PURPOSES. GAS-IT CORPORATION, New York, N. Y.
Filed February 2, 1939. Serial No. 415,505. PUBLISHED MAY 2, 1939. Class 6.

369,211. CONCENTRATE AND SYRUP FOR MAKING NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS, OR AS A MIXER. LANE & CAMPBELL, Providence, R. I.
Filed February 2, 1939. Serial No. 415,516. PUBLISHED MAY 9, 1939. Class 45.

369,212. SALVE AS AN EXTERNAL APPLICATION IN COMMON COUGHS AND COLDS AND MUSCULAR SORENESS. CLYDE NORMAN ROBERTS, doing business as Roberts Onirub Co., Huntington, W. Va.
Filed February 2, 1939. Serial No. 415,523. PUBLISHED MAY 2, 1939. Class 6.

369,213. SOLUTION FOR USE IN REMOVING ADHESIVE TAPE, CORN PLASTERS, POROUS PLASTERS, AND OINTMENT. THE TAP-SOL COMPANY, St. Louis, Mo.
Filed February 2, 1939. Serial No. 415,528. PUBLISHED MAY 2, 1939. Class 6.

369,214. PUBLICATION PERTAINING TO THE CARE OF TREES, PLANTS, DESCRIPTIONS OF GARDENS, WHICH MAGAZINE IS PUBLISHED PERIODICALLY. TOWSON NURSERIES, INC., Towson, Md.
Filed February 2, 1939. Serial No. 415,529. PUBLISHED MAY 9, 1939. Class 38.

369,215. CHEMICAL COMPOUNDS FOR THE TREATMENT OF WOOD PRODUCTS FOR RETARDING COMBUSTION. AMERICAN FLAME PROOFING CORPORATION, Everett, Wash.
Filed February 4, 1939. Serial No. 415,573. PUBLISHED MAY 2, 1939. Class 6.

369,216. LEATHER FOR USE IN THE MANUFACTURE OF CLOTHING. GOMSHALL TANNERIES LIMITED, Gomshall, England.
Filed February 4, 1939. Serial No. 415,591. PUBLISHED MAY 9, 1939. Class 1.

369,217. LAXATIVE TABLETS. ANTON SALES COMPANY, Philadelphia, Pa.
Filed February 6, 1939. Serial No. 415,622. PUBLISHED MAY 9, 1939. Class 6.

369,218. LIQUID CLEANING AGENT PARTICULARLY ADAPTED FOR CLEANING WALLS, WINDOWS, WINDOW SHADES, RUGS, INTERIOR AND EXTERIOR WOODWORK, OR THE LIKE. ISAAC C. BAZAN, doing business as Grabo Chemical Company, Grand Rapids, Mich.
Filed February 6, 1939. Serial No. 415,626. PUBLISHED MAY 9, 1939. Class 4.

369,219. NAIL POLISH, NAIL ENAMEL, CUTICLE OIL, NAIL POLISH REMOVER, AND NAIL WAX PRESERVATIVE. CASTILIAN PRODUCTS CORP., Los Angeles, Calif.
Filed February 6, 1939. Serial No. 415,634. PUBLISHED MAY 9, 1939. Class 6.

369,220. TRIPLE STRENGTH ASTRINGENT, ACNE LOTION, DRY SKIN LOTION, COLD CREAM, CLEANSING CREAM, TISSUE CREAM, ETC. DORALDINA COSMETICS, INC., New York, N. Y.
Filed February 6, 1939. Serial No. 415,639. PUBLISHED MAY 2, 1939. Class 6.

369,221. CANNED TOMATOES. SAFEWAY STORES, INC., also doing business as General Food Products Co., Vernon and Oakland, Calif.
Filed February 6, 1939. Serial No. 415,667. PUBLISHED MAY 9, 1939. Class 46.

369,222. MEN'S AND WOMEN'S COATS AND SUITS. A. SAGNER & SONS, INC., Baltimore, Md.
Filed February 6, 1939. Serial No. 415,668. PUBLISHED APRIL 25, 1939. Class 39.

369,223. LADIES' AND MEN'S PAJAMAS AND MEN'S OUTER SHIRTS. COLUMBIA SHIRT CO., INC., New York, N. Y.
Filed February 7, 1939. Serial No. 415,703. PUBLISHED APRIL 25, 1939. Class 39.

369,224. SUMMER SPORTWEAR—NAMELY, MEN'S AND WOMEN'S SUITS, TROUSERS, SKIRTS, JACKETS, COATS, AND RAINCOATS. CABLE RAINCOAT COMPANY, Boston, Mass.
Filed February 8, 1939. Serial No. 415,762. PUBLISHED MAY 2, 1939. Class 39.

369,225. SWEEPING COMPOUND, METAL POLISH, TOILET SOAP, OIL SOAP, AND CLEANSER FOR FLOORS, CLOSETS, WASH BOWLS, AND SINKS. INDUSTRIAL SOAP CO., St. Louis, Mo.
Filed February 8, 1939. Serial No. 415,779. PUBLISHED MAY 9, 1939. Class 4.

369,226. LADIES' CHEMISES, PRINCESS SLIPS, BLOOMERS, STEP-INS, AND NIGHTGOWNS OF A TEXTILE FABRIC. I. SCHNEIERSON & SONS, INC., New York, N. Y.
Filed February 8, 1939. Serial No. 415,798. PUBLISHED APRIL 25, 1939. Class 39.

369,227. UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. VANITY FAIR SILK MILLS, Reading, Pa.
Filed February 8, 1939. Serial No. 415,810. PUBLISHED APRIL 25, 1939. Class 39.

369,228. SCRIPTS FOR A SERIES OF COMMERCIAL RADIO BROADCASTS SOLD AS A PUBLICATION IN TRADE. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed February 9, 1939. Serial No. 415,836. PUBLISHED MAY 9, 1939. Class 38.

369,229. PEANUT BUTTER SANDWICHES, BUTTER FLAVORED, AND PEANUT BUTTER SANDWICHES, CHEESE FLAVORED. THE FRITO COMPANY, Dallas, Tex.
Filed February 9, 1939. Serial No. 415,842. PUBLISHED MAY 9, 1939. Class 46.

369,230. SULPHONATED OILS, FINISHING OILS, DYEING OILS, PENETRATING OILS, CONING OILS, DELUSTERING AGENTS, SILK SOAKING OILS, SILK DEGUMMING OILS, AND WOOL OILS. MORTON CHEMICAL COMPANY, Greensboro, N. C.
Filed February 9, 1939. Serial No. 415,849. PUBLISHED MAY 9, 1939. Class 6.

369,231. SERIES OF ORGANIC SPECIALTIES INCLUDING SOFTENERS AND FINISHES FOR COTTON, WOOL, SILK, AND RAYON PIECE GOODS, ETC. MORTON CHEMICAL COMPANY, Greensboro, N. C.
Filed February 9, 1939. Serial No. 415,850. PUBLISHED MAY 9, 1939. Class 6.

369,232. SERIES OF ORGANIC WETTING AND PENETRATING AGENTS FOR FIBRES AND WETTING, PENETRATING AND DISPERSING AGENTS FOR PIGMENTS, DYES, AND CHEMICALS. MORTON CHEMICAL COMPANY, Greensboro, N. C.
Filed February 9, 1939. Serial No. 415,851. PUBLISHED MAY 9, 1939. Class 6.

369,233. CANDY. THE NUNNALLY COMPANY, Atlanta, Ga.
Filed February 9, 1939. Serial No. 415,859. PUBLISHED MAY 9, 1939. Class 46.

369,234. COFFEE. ALBERT EHLERS, INC., Brooklyn, N. Y.
Filed February 10, 1939. Serial No. 415,880. PUBLISHED MAY 9, 1939. Class 46.

369,235. PLAIN AND INLAID LINOLEUM FOR FLOORS, WALLS, COUNTER AND DESK TOPS; LINOLEUM TILE, CORK CARPET, AND PRINTED FELT BASE RUGS AND FLOOR COVERINGS. CONGOLEUM-NAIRN INC., Kearny, N. J.
Filed February 11, 1939. Serial No. 415,938. PUBLISHED APRIL 25, 1939. Class 20.

369,236. GASOLINE, FUEL AND LUBRICATING OIL AND GREASES. HAMMAN EXPLORATION COMPANY, Houston, Tex.
Filed February 11, 1939. Serial No. 415,948. PUBLISHED APRIL 25, 1939. Class 15.

369,237. VITAMIN MINERAL SUPPLEMENT FOR DOGS AND CATS. F. M. SHELDON, doing business as Super-Digester Products Company, Pasadena, Calif.
Filed February 13, 1939. Serial No. 416,001. PUBLISHED MAY 9, 1939. Class 6.

369,238. MEN'S AND LADIES' HOSIERY. HUFFMAN FULL FASHIONED MILLS, INC., Morganton, N. C.
Filed February 14, 1939. Serial No. 416,012. PUBLISHED MAY 2, 1939. Class 39.

369,239. PIECE GOODS—TO WIT, SILK, WOOL, COTTON, RAYON, ACETATE, AND COMBINATIONS THEREOF. MOUAKAD BROS. INC., New York, N. Y.
Filed February 15, 1939. Serial No. 416,071. PUBLISHED MAY 9, 1939. Class 42.

369,240. PERFUME DISPENSERS. THE EMFO CORPORATION, New York, N. Y.
Filed February 16, 1939. Serial No. 416,095. PUBLISHED APRIL 25, 1939. Class 2.

369,241. NURSES' UNIFORMS. LANSBURGH & BRO., Washington, D. C.
Filed February 16, 1939. Serial No. 416,104. PUBLISHED APRIL 25, 1939. Class 39.

369,242. MEN'S, WOMEN'S, AND CHILDREN'S BATHING TRUNKS AND BATHING SUITS. DAVID D. DONIGER & Co., New York, N. Y.
Filed February 17, 1939. Serial No. 416,137. PUBLISHED APRIL 25, 1939. Class 39.

369,243. COTTON, RAYON, ACETATE AND/OR SILK PIECE GOODS. COHN-HALL-MARX Co., New York, N. Y.
Filed February 18, 1939. Serial No. 416,178. PUBLISHED MAY 9, 1939. Class 42.

369,244. MEN'S, WOMEN'S, AND CHILDREN'S COATS AND SWEATERS. ARTHUR W. DUFF, Brockton, Mass.
Filed February 18, 1939. Serial No. 416,182. PUBLISHED MAY 2, 1939. Class 39.

369,245. LEATHER IN THE PIECE. GUTMAN BROS., New York, N. Y.
Filed February 18, 1939. Serial No. 416,187. PUBLISHED MAY 9, 1939. Class 1.

369,246. BABY AND CHILDREN'S JEWELRY CONSISTING OF CULTURED PEARLS AND CULTURED PEARL NECKLACES. JUVENILE JEWELRY COMPANY, Chicago, Ill.
Filed February 18, 1939. Serial No. 416,192. PUBLISHED MAY 9, 1939. Class 28.

369,247. GLUES. I. F. LAUCKS, INC., Seattle, Wash.
Filed February 18, 1939. Serial No. 416,193. PUBLISHED APRIL 25, 1939. Class 5.

369,248. WOMEN'S, MISSES', AND JUNIORS' COATS AND SUITS. WHELLKIN COAT Co. INC., New York, N. Y.
Filed February 18, 1939. Serial No. 416,220. PUBLISHED APRIL 25, 1939. Class 39.

369,249. CHILE-CON-CARNE. SARAH E. CLARK Co., New York, N. Y.
Filed February 21, 1939. Serial No. 416,283. PUBLISHED MAY 9, 1939. Class 46.

369,250. LINOLEUM. CHICAGO MAIL ORDER COMPANY, Chicago, Ill.
Filed February 23, 1939. Serial No. 416,313. PUBLISHED MAY 2, 1939. Class 20.

369,251. MOUTH WASH. THE PEROXIDE CHEMICAL Co., also doing business as Western Peroxide Co., St. Louis, Mo.
Filed February 23, 1939. Serial No. 416,335. PUBLISHED APRIL 25, 1939. Class 6.

369,252. MEDICINAL CIGARETTES FOR THE RELIEF OF ASTHMA AND THROAT IRRITATIONS. JOHN K. BRATOR & Co., New York, N. Y.
Filed February 24, 1939. Serial No. 416,366. PUBLISHED APRIL 25, 1939. Class 6.

369,253. PAJAMAS AND NIGHTGOWNS. KATZ UNDERWEAR Co., Honesdale, Pa.
Filed February 24, 1939. Serial No. 416,378. PUBLISHED APRIL 25, 1939. Class 39.

369,254. OLIVE OIL FOR MEDICINAL PURPOSES AND OIL OF PEPPERMINT FOR MEDICINAL PURPOSES. ORBIS PRODUCTS CORPORATION, New York, N. Y.
Filed February 24, 1939. Serial No. 416,382. PUBLISHED APRIL 25, 1939. Class 6.

369,255. READY-MIXED PAINTS, VARNISHES AND PAINT ENAMELS. AULT & WIBORG CORPORATION, Cincinnati, Ohio, and New York, N. Y.
Filed February 25, 1939. Serial No. 416,397. PUBLISHED MAY 9, 1939. Class 16.

369,256. DEVICE IMPREGNATED WITH LOTION TO BE APPLIED TO THE EYES. KAY COMERFORD, doing business as Comford Eye-Lets Co., Richmond Hill, N. Y.
Filed February 25, 1939. Serial No. 416,401. PUBLISHED APRIL 25, 1939. Class 6.

369,257. TOBACCO PRODUCTS—NAMELY, CIGARETTES, SMOKING AND CHEWING TOBACCO. LARUS & BROTHER COMPANY, INC., Richmond, Va.
Filed February 25, 1939. Serial No. 416,427. PUBLISHED MAY 9, 1939. Class 17.

369,258. GOLF TEES. MONSANTO CHEMICAL COMPANY, St. Louis, Mo., and Indian Orchard, Mass.
Filed February 25, 1939. Serial No. 416,433. PUBLISHED MAY 9, 1939. Class 22.

369,259. LADIES' PAJAMAS AND UNDERWEAR—NAMELY, SLIPS, NIGHTGOWNS, PANTIES, AND CHEMISES. RALPH CORN UNDERWEAR, INC., New York, N. Y.
Filed February 25, 1939. Serial No. 416,437. PUBLISHED APRIL 25, 1939. Class 39.

369,260. MALTLESS, NONALCOHOLIC, NONCEREAL BEVERAGES IN THE NATURE OF SOFT DRINKS AND SYRUPS AND EXTRACTS FOR MAKING THE SAME. BOONE ROCK BOTTLING COMPANY, Spencer, N. C.
Filed February 27, 1939. Serial No. 416,452. PUBLISHED MAY 9, 1939. Class 45.

369,261. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES AND COMPOUND CONCENTRATES AND SIRUPS FOR THE MANUFACTURE THEREOF. ORANGE-CRUSH COMPANY, Chicago, Ill.
Filed February 27, 1939. Serial No. 416,475. PUBLISHED MAY 9, 1939. Class 45.

369,262. CIGARETTE CASES NOT MADE OF PRECIOUS METALS. REX PRODUCTS CORPORATION, New York, N. Y.
Filed February 27, 1939. Serial No. 416,479. PUBLISHED MAY 9, 1939. Class 8.

369,263. WOMEN'S, GIRLS', AND MISSES' DRESSES, PLAY SUITS, AND SLACKS. SEARS, ROEBUCK AND Co., Chicago, Ill.
Filed February 27, 1939. Serial No. 416,482. PUBLISHED APRIL 25, 1939. Class 39.

369,264. SILK TEXTILE FABRICS IN THE PIECE. SHIRLEY SILK CO., INC., New York, N. Y.
Filed February 27, 1939. Serial No. 416,483. PUBLISHED MAY 9, 1939. Class 42.

369,265. AUTOMOBILE, FURNITURE, AND FLOOR POLISHING WAXES, AND SELF-POLISHING WAX. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed February 27, 1939. Serial No. 416,489. PUBLISHED MAY 9, 1939. Class 16.

369,266. METAL POLISH. UNION OIL COMPANY OF CALIFORNIA, Los Angeles, Calif.
Filed February 27, 1939. Serial No. 416,490. PUBLISHED MAY 9, 1939. Class 4.

369,267. COUGH SYRUP. BURTNETT DRUG COMPANY, Wichita, Kans.
Filed February 28, 1939. Serial No. 416,503. PUBLISHED MAY 9, 1939. Class 6.

369,268. MEN'S, WOMEN'S, AND CHILDREN'S PAJAMAS. KAYLON, INC., New York, N. Y.
Filed February 28, 1939. Serial No. 416,513. PUBLISHED MAY 2, 1939. Class 39.

369,269. FINGER RINGS AND FINGER RING FINDINGS. STREICHER MFG. COMPANY, Newark, N. J.
Filed February 28, 1939. Serial No. 416,525. PUBLISHED MAY 9, 1939. Class 28.

369,270. SALAD OIL. CLINTON COMPANY, Clinton, Iowa.
Filed March 1, 1939. Serial No. 416,539. PUBLISHED MAY 9, 1939. Class 46.

369,271. CLOCKS AND WATCHES. HERMES, S. A., Paris, France.
Filed March 1, 1939. Serial No. 416,559. PUBLISHED MAY 9, 1939. Class 27.

369,272. COPYHOLDERS. REMINGTON RAND INC., Buffalo, N. Y.
Filed March 1, 1939. Serial No. 416,582. PUBLISHED MAY 9, 1939. Class 37.

369,273. MILK BOTTLE CAPS. AMERICAN SEAL-KAP CORPORATION OF DELAWARE, Long Island City, N. Y.
Filed March 2, 1939. Serial No. 416,595. PUBLISHED MAY 9, 1939. Class 50.

369,274. GLASS COFFEE MAKERS AND PARTS THEREOF. KORWOOD INCORPORATED, Chicago, Ill.
Filed March 2, 1939. Serial No. 416,609. PUBLISHED MAY 9, 1939. Class 33.

369,275. MEDICINAL PREPARATION FOR USE IN GLANDULAR DEFICIENCIES. SCHERING CORPORATION, Bloomfield, N. J.
Filed March 2, 1939. Serial No. 416,619. PUBLISHED MAY 9, 1939. Class 6.

369,276. COMPOUND USED IN THE FINISHING OF TEXTILE FABRICS AND ALSO FOR USE AS A TYPE OF FINISH FOR TEXTILE FABRICS, AND FOR THE PROCESSING OF TEXTILE FABRICS BEFORE FINISHING. JACOB BENDIX, New York, N. Y.
Filed March 1, 1939. Serial No. 416,625. PUBLISHED MAY 9, 1939. Class 6.

369,277. GRANULATED SUGAR. SOCIEDAD AGRICOLA PARAMONGA, Lima, Peru.
Filed March 1, 1939. Serial No. 416,626. PUBLISHED MAY 9, 1939. Class 46.

369,278. GRANULATED SUGAR. SOCIEDAD AGRICOLA PARAMONGA, Lima, Peru.
Filed March 1, 1939. Serial No. 416,629. PUBLISHED MAY 9, 1939. Class 46.

369,279. METAL CANS. CROWN CAN COMPANY, Philadelphia, Pa.
Filed March 3, 1939. Serial No. 416,643. PUBLISHED MAY 9, 1939. Class 2.

369,280. LEATHER. THE DENVER LEATHER Co., Denver, Colo.
Filed March 3, 1939. Serial No. 416,644. PUBLISHED MAY 9, 1939. Class 1.

369,281. ORGANIC CHEMICALS, INCLUDING ACETALS, ACID ANHYDRIDES, ALCOHOLS EXCEPT POTABLE ETHYL ALCOHOL, ALDEHYDES, ETC. EASTMAN KODAK COMPANY, Rochester, N. Y.
Filed March 3, 1939. Serial No. 416,646. PUBLISHED MAY 9, 1939. Class 6.

369,282. COSMETICS—NAMELY, NAIL POLISH, CUTICLE REMOVER, FACE CREAM, HAND LOTION, FACE LOTION, HAIR OIL, NAIL POLISH REMOVER, SUN TAN LOTION, BRILLIANTINE, AND HAIR TONIC. SUPREME OLIVE OIL CORPORATION, San Fernando, Calif.
Filed March 3, 1939. Serial No. 416,662. PUBLISHED MAY 9, 1939. Class 6.

369,283. SOIL FERTILIZER MATERIAL. WOODSON K. WOODS, doing business as Chaumiere Farms, Steelville, Mo.
Filed March 3, 1939. Serial No. 416,669. PUBLISHED MAY 2, 1939. Class 10.

369,284. BICYCLES. ARNOLD, SCHWINN & Co., Chicago Ill.
Filed March 4, 1939. Serial No. 416,673. PUBLISHED MAY 9, 1939. Class 19.

369,285. BICYCLES. ARNOLD, SCHWINN & Co., Chicago, Ill.
Filed March 4, 1939. Serial No. 416,674. PUBLISHED MAY 9, 1939. Class 19.

369,286. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. ADELE MOREL, New York, N. Y.
Filed March 4, 1939. Serial No. 416,695. PUBLISHED APRIL 25, 1939. Class 6.

369,287. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRILLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. ADELE MOREL, New York, N. Y.
Filed March 4, 1939. Serial No. 416,696. PUBLISHED APRIL 25, 1939. Class 6.

369,288. NAIL POLISH. PEGGY SAGE, INC., New York, N. Y.
Filed March 4, 1939. Serial No. 416,702. PUBLISHED APRIL 25, 1939. Class 6.

369,289. NAIL POLISH. PEGGY SAGE, INC., New York, N. Y.
Filed March 4, 1939. Serial No. 416,703. PUBLISHED APRIL 25, 1939. Class 6.

369,290. FRESH VEGETABLES. ALEXANDER MARKETING COMPANY, San Benito, Tex.
Filed March 6, 1939. Serial No. 416,715. PUBLISHED MAY 9, 1939. Class 46.

369,291. TOILET PAPER, TOWELS, AND NAPKINS. FORT HOWARD PAPER COMPANY, Green Bay, Wis.
Filed March 6, 1939. Serial No. 416,725. PUBLISHED MAY 9, 1939. Class 37.

369,292. FASTENERS FOR PAPERS AND STATIONERY. GOLDSMITH BROS., New York, N. Y.
Filed March 6, 1939. Serial No. 416,726. PUBLISHED MAY 9, 1939. Class 37.

369,293. CANNED CITRUS JUICES FOR BEVERAGE PURPOSES. HARLINGEN CANNING CO., Harlingen, Tex.
Filed March 6, 1939. Serial No. 416,728. PUBLISHED MAY 9, 1939. Class 45.

369,294. WATCHES. HELBROS WATCH CO. INC., New York, N. Y.
Filed March 6, 1939. Serial No. 416,730. PUBLISHED MAY 9, 1939. Class 27.

369,295. LINIMENT AND HERB COMPOUND USED AS A LAXATIVE AND STOMACHIC APPETIZER. MARY ELLEN RAGAN, Centerton, Ind.
Filed March 6, 1939. Serial No. 416,744. PUBLISHED MAY 9, 1939. Class 6.

369,296. PERFUMERY, TOILET WATER, AND ASTRINGENT. DORLAND INTERNATIONAL, INCORPORATED, New York, N. Y.
Filed March 7, 1939. Serial No. 416,764. PUBLISHED MAY 9, 1939. Class 6.

369,297. FEMALE SEX HORMONE PREPARATION INDICATED IN TREATING ENDOCRINE DEFICIENCIES. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed March 7, 1939. Serial No. 416,777. PUBLISHED MAY 9, 1939. Class 6.

369,298. FEMALE SEX HORMONE PREPARATION INDICATED IN TREATING ENDOCRINE DEFICIENCIES. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed March 7, 1939. Serial No. 416,778. PUBLISHED MAY 9, 1939. Class 6.

369,299. LEATHER PIGMENT FINISHING COLORS. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed March 7, 1939. Serial No. 416,779. PUBLISHED MAY 9, 1939. Class 6.

369,300. CIGARETTES. RIGGIO TOBACCO CORPORATION, New York, N. Y.
Filed March 8, 1939. Serial No. 416,787. PUBLISHED MAY 9, 1939. Class 17.

369,301. BOWLING BALLS. NED DAY, Milwaukee, Wis.
Filed March 8, 1939. Serial No. 416,796. PUBLISHED MAY 9, 1939. Class 22.

369,302. LINEN TOWELS, WAFFLE MATS, HIT AND MISS RUGS, AND CRIB BLANKETS. NATIONAL INDUSTRIES FOR THE BLIND, New York, N. Y.
Filed March 8, 1939. Serial No. 416,812. PUBLISHED MAY 9, 1939. Class 42.

369,303. OLEOMARGARINE. SHEDD PRODUCTS COMPANY, Detroit, Mich.
Filed March 8, 1939. Serial No. 416,818. PUBLISHED MAY 9, 1939. Class 46.

369,304. BILL-BOARDS. LANDON P. SMITH, INC., Irvington, N. J.
Filed March 8, 1939. Serial No. 416,819. PUBLISHED MAY 9, 1939. Class 50.

369,305. PILE FABRICS. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed March 9, 1939. Serial No. 416,832. PUBLISHED MAY 9, 1939. Class 42.

369,306. PILE FABRICS. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed March 9, 1939. Serial No. 416,833. PUBLISHED MAY 9, 1939. Class 42.

369,307. PILE FABRICS. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed March 9, 1939. Serial No. 416,834. PUBLISHED MAY 9, 1939. Class 42.

369,308. TANK USED IN HOT WATER HEATERS. BASTIAN-MORLEY CO., INC., La Porte, Ind.
Filed March 14, 1939. Serial No. 417,049. PUBLISHED MAY 9, 1939. Class 34.

369,309. PHOTOGRAPHIC PREPARATIONS AND PHOTOGRAPHIC CHEMICALS IN POWDER AND LIQUID FORM. FINK-ROSELIEVE CO., INC., New York, N. Y.
Filed March 14, 1939. Serial No. 417,053. PUBLISHED APRIL 25, 1939. Class 6.

369,310. REFRIGERATORS AND REFRIGERATOR CABINETS. ED. FRIEDRICH, INC., San Antonio, Tex.
Filed March 14, 1939. Serial No. 417,055. PUBLISHED MAY 9, 1939. Class 31.

369,311. CHEESE. CARL ULRIK FOHRMANN KRAG HANSEN, Copenhagen, Denmark.
Filed March 14, 1939. Serial No. 417,058. PUBLISHED MAY 9, 1939. Class 46.

369,312. LIQUID MEDICINAL PREPARATIONS FOR INTERNAL USE IN CASES OF CHRONIC PYELITIS, SUBACUTE AND CHRONIC INFLAMMATION OF THE KIDNEYS, ETC. J. S. TYREE, CHEMIST, INC., Washington, D. C.
Filed March 14, 1939. Serial No. 417,067. PUBLISHED MAY 9, 1939. Class 6.

369,313. PIECE GOODS MADE FROM THE FOLLOWING INGREDIENTS AND/OR COMBINATIONS THEREOF—ANIMAL FIBERS, SUCH AS MOHAIR, WOOL, AND SILK; VEGETABLE FIBERS, SUCH AS COTTON AND LINENS, ALSO SYNTHETICS. GOODALL WORSTED COMPANY, Sanford, Maine.
Filed March 15, 1939. Serial No. 417,089. PUBLISHED MAY 9, 1939. Class 42.

369,314. AFTER SHAVE LOTION, EAU DE COLOGNE, AND SCALP STIMULANT. LENTHERIC, INCORPORATED, New York, N. Y.
Filed March 15, 1939. Serial No. 417,092. PUBLISHED MAY 9, 1939. Class 6.

369,315. PERFUMES. LENTHERIC, INCORPORATED, New York, N. Y.
Filed March 15, 1939. Serial No. 417,093. PUBLISHED MAY 9, 1939. Class 6.

369,316. RUBBER RAILROAD TIES FOR TRACKS FOR TOY TRAINS. ESSEX RUBBER COMPANY, Trenton, N. J.
Filed March 16, 1939. Serial No. 417,121. PUBLISHED MAY 9, 1939. Class 22.

369,317. MEDICATED COMPOSITION FOR THE RELIEF OF COUGHS AND COLDS AND MORE PARTICULARLY COUGH DROPS. IODENT CHEMICAL COMPANY, Detroit, Mich.
Filed March 16, 1939. Serial No. 417,154. PUBLISHED MAY 9, 1939. Class 6.

369,318. CHEMICAL MUD-THINNER. THE MILWHITE COMPANY, INC., Houston, Tex.
Filed March 17, 1939. Serial No. 417,179. PUBLISHED MAY 9, 1939. Class 6.

369,319. BEER AND ALE. AMERICAN BREWING COMPANY, New Orleans, La.
Filed March 18, 1939. Serial No. 417,196. PUBLISHED MAY 9, 1939. Class 48.

369,320. VITAMIN B COMPLEX MALT SYRUP. BORCHERDT MALT EXTRACT CO., Chicago, Ill.
Filed March 18, 1939. Serial No. 417,200. PUBLISHED MAY 9, 1939. Class 6.

369,321. LAXATIVE SALT AND LAXATIVE PILLS. CARTER PRODUCTS, INC., New York, N. Y.
Filed March 20, 1939. Serial No. 417,260. PUBLISHED MAY 9, 1939. Class 6.

369,322. CANNED PREPARED SALAD. GREEN BAY FOOD COMPANY, Green Bay, Wis.
Filed March 20, 1939. Serial No. 417,279. PUBLISHED MAY 9, 1939. Class 46.

369,323. FRESH CITRUS FRUIT. MAGNOLIA CITRUS ASSOCIATION, Porterville, Calif.
Filed March 20, 1939. Serial No. 417,287. PUBLISHED MAY 9, 1939. Class 46.

369,324. MALTLESS, NONALCOHOLIC BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS AND EXTRACTS FOR MAKING THE SAME. SCHUESSLER, HAMILTON COMPANY, St. Louis, Mo.
Filed March 20, 1939. Serial No. 417,304. PUBLISHED MAY 9, 1939. Class 45.

369,325. TABLE-TENNIS SETS OR OUTFITS CONSISTING OF TABLE-TENNIS BALLS AND TABLE-TENNIS BATS. UNIVERSAL TABLE TENNIS CORPORATION, Boston, Mass.
Filed March 20, 1939. Serial No. 417,313. PUBLISHED MAY 9, 1939. Class 22.

369,326. BASIC FOOD PRODUCT MADE FROM WHEAT FOR USE AS A BREAKFAST CEREAL FOOD AND ALSO FOR USE IN BAKING, AND IN THE PREPARATION OF PANCAKES AND WAFFLES, AND FOR THE BREADING OF MEAT AND FISH. ARNOLD ADOLPH KAEHLER, doing business as Sturdiwheat Company, Red Wing, Minn.
Filed March 21, 1939. Serial No. 417,336. PUBLISHED MAY 9, 1939. Class 46.

369,327. VITAMIN B COMPLEX PREPARATION. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed March 21, 1939. Serial No. 417,353. PUBLISHED MAY 9, 1939. Class 6.

369,328. PERFUMES, TOILET WATERS, ROUGE, LIPSTICK, FACE CREAM, FACE POWDER, NAIL CREAM, AND SKIN CREAM. SUZANNE PERICHON, Paris, France.
Filed March 23, 1939. Serial No. 417,414. PUBLISHED MAY 9, 1939. Class 6.

369,329. NAIL POLISH. PEGGY SAGE, INC., New York, N. Y.
Filed March 31, 1939. Serial No. 417,714. PUBLISHED MAY 9, 1939. Class 6.

369,330. GARDEN HOSE. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash.
Filed April 3, 1939. Serial No. 417,791. PUBLISHED MAY 9, 1939. Class 35.

369,331. LAUNDRY DETERGENTS SOLD IN LIQUID FORM AND DRY CLEANING PREPARATIONS FOR DOMESTIC OR INDUSTRIAL USE. CLARENCE M. COBB, Boston, Mass.
Filed March 9, 1939. Serial No. 416,840. PUBLISHED MAY 9, 1939. Class 4.

369,332. SHAVING CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed March 9, 1939. Serial No. 416,841. PUBLISHED MAY 9, 1939. Class 4.

369,333. SHAVING CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed March 9, 1939. Serial No. 416,842. PUBLISHED MAY 9, 1939. Class 4.

369,334. SIZING OR FINISHING AGENTS FOR TEXTILE MATERIALS. STEIN, HALL & COMPANY, INC., New York, N. Y.
Filed March 9, 1939. Serial No. 416,877. PUBLISHED APRIL 25, 1939. Class 6.

369,335. SOLUTION SATURATED EYE MASKS. CLARK-MILLNER CO., Chicago, Ill.
Filed March 10, 1939. Serial No. 416,890. PUBLISHED MAY 9, 1939. Class 6.

369,336. LIQUID PREPARATION FOR TREATMENT OF ASTHMA AND HAY FEVER. MCCOY'S PRODUCTS, INC., New York, N. Y.
Filed March 10, 1939. Serial No. 416,909. PUBLISHED MAY 9, 1939. Class 6.

369,337. [WITHDRAWN.]

369,338. TOILET WATER, FACE POWDER, PERFUME, TALCUM POWDER, DUSTING POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, ROUGE, LIP STICKS, SACHET, COLD CREAM, LOTION FOR THE SKIN AND HAIR, POWDER AND ROUGE COMPACTS. SARAVEL, INC., New York, N. Y.
Filed March 10, 1939. Serial No. 416,918. PUBLISHED MAY 9, 1939. Class 6.

369,339. TOILET WATER, FACE POWDER, PERFUME, TALCUM POWDER, DUSTING POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, ROUGE, LIP STICKS, SACHET, COLD CREAM, LOTION FOR THE SKIN AND HAIR, POWDER AND ROUGE COMPACTS. SARAVEL, INC., New York, N. Y.
Filed March 10, 1939. Serial No. 416,919. PUBLISHED MAY 9, 1939. Class 6.

369,340. TOILET WATER, FACE POWDER, PERFUME, TALCUM POWDER, DUSTING POWDER, BATH SALTS, BRILLIANTINE, BANDOLINE, ROUGE, LIP STICKS, SACHET, COLD CREAM, LOTION FOR THE SKIN AND HAIR, POWDER AND ROUGE COMPACTS. SARAVEL, INC., New York, N. Y.
Filed March 10, 1939. Serial No. 416,920. PUBLISHED MAY 9, 1939. Class 6.

369,341. COTTON PIECE GOODS BOTH WITH AND WITHOUT A WATER REPELLENT FINISH. ARTHUR KAHN CO., INC., New York, N. Y.
Filed March 11, 1939. Serial No. 416,957. PUBLISHED MAY 9, 1939. Class 42.

369,342. PIPES. LONDON HOUSE, LTD., New York, N. Y.
Filed March 11, 1939. Serial No. 416,961. PUBLISHED MAY 9, 1939. Class 8.

369,343. CARBON AND GRAPHITE PRODUCTS FOR CONSTRUCTION PURPOSES, SUCH AS PIPES, TUBES, AND FITTINGS FOR CONVEYING LIQUIDS AND GASES AND FOR USE AS HEAT EXCHANGERS IN HANDLING LIQUIDS AND GASES. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed March 11, 1939. Serial No. 416,965. PUBLISHED MAY 9, 1939. Class 12.

369,344. FILTER OR POROUS PAPER USED IN THE MANUFACTURE OF TEA BAGS AND COFFEE BALLS AND SIMILAR ARTICLES. ALDINE PAPER COMPANY, INCORPORATED, New York, N. Y.
Filed March 13, 1939. Serial No. 416,985. PUBLISHED MAY 9, 1939. Class 37.

369,345. WINES. ITALIAN SWISS COLONY, San Francisco, Calif.
Filed March 13, 1939. Serial No. 417,013. PUBLISHED MAY 9, 1939. Class 47.

369,346. PERFUME. MAURICE LEVY, doing business as Malvy, New York, N. Y.
Filed March 13, 1939. Serial No. 417,021. PUBLISHED MAY 2, 1939. Class 6.

369,347. PERFUME. MAURICE LEVY, doing business as Malvy, New York, N. Y.
Filed March 13, 1939. Serial No. 417,022. PUBLISHED MAY 9, 1939. Class 6.

369,348. LAXATIVE TABLETS. SINCLAIR G. STANLEY, doing business as Stanis, Chicago, Ill.
Filed March 13, 1939. Serial No. 417,032. PUBLISHED MAY 9, 1939. Class 6.

369,349. PERFUME. SINCLAIR G. STANLEY, doing business as Stanis, Chicago, Ill.
Filed March 13, 1939. Serial No. 417,035. PUBLISHED MAY 2, 1939. Class 6.

369,350. TOILET SOAPS. JOHN J. TRACEY COMPANY, Chicago, Ill.
Filed March 13, 1939. Serial No. 417,036. PUBLISHED MAY 9, 1939. Class 4.

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION
[ACT OF FEBRUARY 20, 1905]

369,351. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RADIUM CHEMICAL COMPANY, INC., New York, N. Y. Filed Mar. 3, 1937. Serial No. 389,620.

RADIUM

For Medical Applicators for Preparations Containing Radium or Radium Salts.
Claims use since Jan. 1, 1928.

369,352. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SAGER SPECIALTIES, INC., Chicago, Ill., assignor to Sager Specialties Corp., Green Bay, Wis., a corporation of Wisconsin.

EVER-SOFT

Filed May 13, 1937. Serial No. 392,710.
For Water Softener.
Claims use since Dec. 5, 1936.

369,353. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) POPOWITZ AND NEUMAN, New York, N. Y. Filed Sept. 3, 1937. Serial No. 397,083.

KOKO-POP

For Frozen Ice-cream-less Chocolateless Candy Confection.
Claims use since June, 1937.

369,354. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED-AMERICAS DISTRIBUTORS, Miami Beach, Fla. Filed Mar. 1, 1938. Serial No. 403,568.

UNITED-AMERICAS DIST.

For Medicinal Headache Tablet.
Claims use since Jan. 15, 1938.

369,355. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MATTHEW D. EHART, Philadelphia, Pa. Filed Apr. 27, 1938. Serial No. 405,795.

EHART'S

For Insecticide.
Claims use since Mar. 2, 1935.

369,356. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) B & L LABORATORIES, INC., Chicago, Ill. Filed May 4, 1938. Serial No. 405,981.

Bubble Bath

For Saponaceous Material Having Incidental Water Softening Properties for Forming Bubbles for Use in the Bath and the Like.
Claims use since June 25, 1936.

369,357. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) INGERSOLL SHAVER CORPORATION, Wilmington, Del. Filed May 7, 1938. Serial No. 406,095.

INGERSOLL

For Electric Shavers.
Claims use since May 5, 1938.

369,358. (CLASS 12. CONSTRUCTION MATERIALS.) UNITED STATES MINERAL WOOL COMPANY, Chicago, Ill. Filed May 16, 1938. Serial No. 406,406.

STUD-PAK WOOL

For Thermal Insulating Material.
Claims use since Jan. 1, 1938.

369,359. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) JULIUS S. RAKESTRAW, Chicago, Ill. Filed May 31, 1938. Serial No. 406,940.

The RAKESTRAW FORMULA

For Topical Preparation for the Treatment of Infections of the Skin.
Claims use since May 24, 1938.

369,360. (CLASS 39. CLOTHING.) NIGHT COMFORT, INC., Philadelphia, Pa. Filed June 4, 1938. Serial No. 407,106.

NOPANTZ
Sleepcoat
NIGHT COMFORT

For Sleeping Garments and Lounging Robes for Men, Women, and Children.
Claims use since May 18, 1938.

369,361. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) M. V. C. LABORATORIES, INC., Toledo, Ohio. Filed June 8, 1938. Serial No. 407,234.

WAXICOTE

For Manicure Preparation in Liquid Form to be Applied to the Nails Before Applying Polish.
Claims use since Apr. 27, 1938.

369,362. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SELMA PRODUCTS CO., Los Angeles, Calif. Filed July 14, 1938. Serial No. 408,511.

Dri-Quic

For Scientific Formula for Reconditioning the Hair.
Claims use since Apr. 13, 1938.

369,363. (CLASS 39. CLOTHING.) MARTIN FREEDMAN, New York, N. Y. Filed July 23, 1938. Serial No. 408,837.

COLLARBILT

For Men's and Boys' Shirts for Outer Wear.
Claims use since May 26, 1938.

369,364. (CLASS 39. CLOTHING.) A. SAGNER & SONS, INC., Baltimore, Md. Filed Aug. 19, 1938. Serial No. 409,783.

ANGLO-KNIT
HAND TAILORED
AT
Englishtown

For Men's Suits and Overcoats.
Claims use since Mar. 2, 1938.

369,365. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) ROSE B. GRIFFIN, doing business as The Worm Right Co., Tulsa, Okla. Filed Oct. 11, 1938. Serial No. 411,498.

WORM RIGHT

For Preparation for Worming Poultry.
Claims use since Apr. 18, 1938.

369,366. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) SOCIETE ANONYME LES PARFUMERIE DE GABILLA, Paris, France. Filed Nov. 9, 1938. Serial No. 412,561.

VINEUIL

For Perfumes, Toilet Water, Eau de Cologne, Face Powder, Talcum Powder, Face Rouge, and Lipsticks.
Claims use since May 12, 1933.

369,367. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETER TUNDER, JR., doing business as Cassin Laboratories, Cleveland, Ohio. Filed Nov. 16, 1938. Serial No. 412,835.

CASSIN

For Dandruff Remover Shampoo and Hair Oil.
Claims use since May 1, 1938.

369,368. (CLASS 39. CLOTHING.) PROPPER-MCCALLUM HOSIERY CO. INC., New York, N. Y. Filed Feb. 3, 1939. Serial No. 415,558.

Rib-Row

For Hosiery.
Claims use since January, 1938.

369,369. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) E. M. KNOX, Santa Fe, N. Mex. Filed Feb. 6, 1939. Serial No. 415,867.

Knox
Weavers

For Knitted, Netted, and Textile Piece Goods, Wool, Silk, Rayon, Linen, and Cotton, and the Combinations Thereof.
Claims use since June 15, 1937.

369,370. (CLASS 39. CLOTHING.) WARSHAUER & FRANCK, INC., Boston, Mass. Filed Feb. 15, 1939. Serial No. 416,081.

Betty Winston
ORIGINAL

For Ladies' Dresses.
Claims use since Feb. 25, 1938.

369,371. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PENICK & FORD, LTD. INCORPORATED, New York, N. Y. Filed Mar 9, 1939. Serial No. 416,868.

DOUGLAS

For Preparations Used in Finishing Papers and Textiles, and Laundry Starch.
Claims use since Jan. 15, 1918.

369,372. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) LIP AID LABORATORY, New York, N. Y. Filed Mar. 24, 1939. Serial No. 417,465.

Lip Aid

The drawing is lined for red.
For Lipstick.
Claims use since January, 1938.

369,373. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) WEIL PACKING COMPANY, Evansville, Ind. Filed Mar. 31, 1939. Serial No. 417,727.

WEIL'S

REDISERV

For Meats and Meat Products—Viz., Hams, Shoulders, Picnics, and Cottage Rolls.
Claims use since May, 1938.

369,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WALTER B. SEYMOUR, doing business as Poindexter Company, Bessemer, Ala. Filed Apr. 5, 1939. Serial No. 417,892.

POINDEXTER'S
Lonesome Pine

For Medicinal Oil for Ulcers, Cuts, Burns, Bruises, Toothache, Pyorrhea of the Gums, for Skin Eruptions, Poison Oak, Tetter, Itch, Insect Bites, Ringworm, Athlete's Foot, Flu, Asthma, Hay Fever, Sore Throat, a Spray for Throat and Nasal Troubles, Rheumatism and Backache, Also for Treating Live Stock for Sores, Scratches, Thrush, Harness Galls, and Sore Mouth.
Claims use since 1904.

369,375. (CLASS 39. CLOTHING.) PHILIP SHLANSKY & BRO., INC., New York, N. Y. Filed Apr. 10, 1939. Serial No. 418,066.

NEVA-KOLD

For Women's and Misses' Coats, Suits, and Coat and Suit Ensembles.
Claims use since Mar. 1, 1938.

369,376. (CLASS 17. TOBACCO PRODUCTS.) A. SIEGEL & SONS INC., New York, N. Y. Filed Apr. 10, 1939. Serial No. 418,070.

SHERBROOKE

For Cigars.
Claims use since Mar. 9, 1929.

369,377. (CLASS 39. CLOTHING.) ANATHAN-WALTON, INC., New York, N. Y. Filed Apr. 13, 1939. Serial No. 418,180.

an original Anna Wall tailleur made

For Women's and Misses' Dresses, Jackets, Blouses, Skirts, Slacks, and Playsuits.
Claims use since October, 1937.

369,378. (CLASS 39. CLOTHING.) ALEXANDER S. GROSS, INC., New York, N. Y. Filed Apr. 13, 1939. Serial No. 418,193.

Jane Norton Jr.
FASHIONS
ARE EXCLUSIVE WITH OUR STORE

For Women's and Misses' Dresses.
Claims use since March, 1938.

369,379. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) WESTCHESTER OPTICAL COMPANY, INC., White Plains, N. Y. Filed Apr. 22, 1939. Serial No. 418,616.

STERILITE

For Sunglasses and Spectacles.
Claims use since Apr. 1, 1938.

369,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) NO-GRA LABORATORIES, INC., Miami, Fla. Filed Apr. 27, 1939. Serial No. 418,787.

NO-GRA

For Liquid Preparation for Restoring the Color of Gray Hair.
Claims use since Mar. 26, 1938.

TRADE-MARK REGISTRATIONS RENEWED

124,358. **LITTLE GIANT.** CERTAIN NAMED MACHINERY AND TOOLS, AND PARTS THEREOF. Registered February 4, 1919. WILLIAMS PATENT CRUSHER AND PULVERIZER COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed February 4, 1939.

125,804. **SUNSPUN.** SILK PIECE GOODS. Registered June 17, 1919. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Renewed June 17, 1939, to American Bemberg Corporation, New York, N. Y., a corporation of Delaware, assignee.

125,838. **COLONIAL.** PIECE GOODS OF SILK AND OF SILK MIXED WITH WOOL OR LINEN. Registered June 17, 1919. RICE-STIX DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed June 17, 1939.

125,971. **LIBERTY.** SAFETY-RAZORS. Registered July 22, 1919. AUGUSTUS HAGER BRYANT, New York, N. Y. Renewed July 22, 1939, to International Safety Razor Corporation, Bloomfield, N. J., a corporation of New Jersey, successor.

126,021. **IDEAL.** LINEN-MESH UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. Registered July 22, 1919. IDEAL LINEN MESH COMPANY, Poughkeepsie, N. Y., a corporation of New York. Renewed July 22, 1939.

126,139. **REX.** CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. Registered July 29, 1919. CHAIN BELT COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed July 29, 1939.

126,140. **REX.** CERTAIN NAMED CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF. Registered July 29, 1919. CHAIN BELT COMPANY, Milwaukee, Wis., a corporation of Wisconsin. Renewed July 29, 1939.

126,238. **LORD SALISBURY.** CIGARETTES. Registered August 19, 1919. THE AMERICAN TOBACCO CO., New York, N. Y., a corporation of New Jersey. Renewed August 19, 1939.

126,597. **GOODYEARITE.** ASBESTOS PACKING. Registered September 23, 1919. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed September 23, 1939.

126,686. **GLIDE.** RUBBER BELTING. Registered September 30, 1919. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed September 30, 1939.

127,013. **COTEC.** PILE-OINTMENT. Registered October 21, 1919. THOMAS E. CONNOR, Lynn, Mass. Renewed October 21, 1939.

127,110. **PICTORIAL REVIEW.** DRESS-PATTERNS. Registered October 21, 1919. THE PICTORIAL REVIEW COMPANY. Renewed October 21, 1939, to Pictorial Review Pattern Company, Inc., New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

127,205. **CASAFRU.** PHARMACEUTICAL PREPARATIONS FOR INTESTINAL AND GASTRIC DISORDERS. Registered October 21, 1919. SERIAH STEVENS. Renewed October 21, 1939, to Leo J. Dunn, trustee of the estate of Ruey Bartlett Stevens, deceased, doing business as Mason Drug Co., Boston, Mass., successor.

127,266. **PYRAMID.** KNITTED UNDERWEAR—VIZ., CHILDREN'S WAISTS, WAIST UNION-SUITS, AND UNDERWEAR IN ONE AND TWO PIECE GARMENTS. Registered November 4, 1919. THE CAMPE CORPORATION. Renewed November 4, 1939, to The Campe Corporation, New York, N. Y., a corporation of Delaware, successor.

127,346. **FITRITE.** KNITTED UNDERWEAR IN ONE AND TWO PIECE GARMENTS. Registered November 11, 1919. THE CAMPE CORPORATION. Renewed November 11, 1939, to The Campe Corporation, New York, N. Y., a corporation of Delaware, successor.

127,438. **LAST WORD.** MACHINISTS' AND TOOLMAKERS' TEST-INDICATORS. Registered November 11, 1919. HENRY A. LOWE, Cleveland, Ohio. Renewed November 11, 1939, to The L. S. Starrett Company, Athol, Mass., a corporation of Massachusetts, assignee by mesne assignments.

127,610. **MORBREAD.** WHEAT-FLOUR. Registered November 18, 1919. FISHER FLOURING MILLS CO., Seattle, Wash., a corporation of Washington. Renewed November 18, 1939.

127,644. **MERRY WAR.** LYE. Registered November 18, 1919. E. MYERS LYE COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed November 18, 1939.

127,699. **BREKO.** CAKES. Registered November 18, 1919. WARD BAKING COMPANY, New York, N. Y., a corporation of New York. Renewed November 18, 1939.

127,726. **TRUMPET.** COFFEE, SPICES, AND FOOD-FLAVORING EXTRACTS. Registered December 2, 1919. H. P. COFFEE COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed December 2, 1939.

127,741. **FIREFOAM.** FIRE-EXTINGUISHING COMPOUNDS. Registered December 2, 1919. FOAMITE FIREFOAM COMPANY, New York, N. Y. Renewed December 2, 1939, to American-La France-Foamite Corporation, Elmira, N. Y., a corporation of New York, assignee by mesne assignments.

127,759. **CONDUCTOR.** CERTAIN NAMED FOODS. Registered December 2, 1919. THE H. T. LANGE COMPANY, Eau Claire, Wis., a corporation of Wisconsin. Renewed December 2, 1939.

127,832. **"DAI-SY-O-LA".** HAIR-GROWING PREPARATIONS. Registered December 9, 1919. DAISY FRANKLIN, Jacksonville, Fla. Renewed December 9, 1939.

127,859. **NULOMOLINE.** A TABLE-SYRUP, THE PRODUCT OF PURE CANE-SUGAR. Registered December 9, 1919. THE NULOMOLINE COMPANY, New York, N. Y., a corporation of New York. Renewed December 9, 1939.

127,921. **DORO.** CERTAIN NAMED BELTING, HOSE, AND MACHINERY PACKING. Registered December 16, 1919. THE DOERMANN-ROEHRER COMPANY, Cincinnati, Ohio, a corporation of Ohio. Renewed December 16, 1939.

127,949. **YOURS FOR LIFE.** LIFE-INSURANCE PUBLICATION. Registered December 16, 1919. ARTHUR J. HILL, San Francisco, Calif. Renewed December 16, 1939.

127,973. **NASHUAMOR.** COTTON PIECE GOODS AND COTTON BLANKETS. Registered December 16, 1919. NASHUA MFG. CO., Nashua, N. H. Renewed December 16, 1939, to Nashua Mfg. Co., Nashua, N. H., and Boston, Mass., a corporation of New Hampshire.

127,993. **PYRAMID.** STRUCTURAL SLATE. Registered December 16, 1919. THE STRUCTURAL SLATE COMPANY, Pen Argyl, Pa., a corporation of Pennsylvania. Renewed December 16, 1939.

LABELS
REGISTERED JULY 18, 1939

53,264.—*Title:* WAXED REFRIGERATOR PAPER. For Waxed Paper. AMERICAN TISSUE MILLS, Holyoke, Mass. Published March 15, 1939.

53,265.—*Title:* HEAVY WAXED PAPER. For Waxed Paper. AMERICAN TISSUE MILLS, Holyoke, Mass. Published March 15, 1939.

53,266.—*Title:* WAXED LUNCH WRAPS. For Waxed Paper. AMERICAN TISSUE MILLS, Holyoke, Mass. Published March 15, 1939.

53,267.—*Title:* SAMPLER. For Candy and Nuts. AWFUL FRESH MACFARLANE, Oakland, San Francisco, and Berkeley, Calif. Published June 12, 1939.

53,268.—*Title:* BRÄ-SIR. For a Syrup Prepared from Extractions of Fruit Juices, Kola-Nut Berries, Caffeine and Other Flavoring Material Colored with Caramel. SAUL J. BARON, doing business as Master Brands of America, New York, N. Y. Published April 26, 1939.

53,269.—*Title:* BEECH-NUT COFFEE. For Coffee. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published June 1, 1939.

53,270.—*Title:* BEECH-NUT CHEESE COCKTAILETTES. For Biscuits. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published June 14, 1939.

53,271.—*Title:* DALTON QUALITY SHOES STYLED BY JACK YOUNG. For Cartons. BIRD & SON, INC., East Walpole, Mass. Published June 19, 1939.

53,272.—*Title:* PRAYER REMINDER. For an Article for Religious Purposes. THE BORROWED TIMERS, Ellensburg, Wash. Published January 4, 1939.

53,273.—*Title:* C AND H SUGAR PURE CANE BROWN. For Brown Sugar. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, LIMITED, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. Published June 7, 1939.

53,274.—*Title:* DOCTOR VIDETTO'S HEDIEASE. For Powders for the Relief of Pain Arising from Simple Headache and Neuralgia of Inorganic Nature, Head Colds, and Muscular Aches and Pains. COTTON BELT DRUG COMPANY, INC., Augusta, Ga. Published April 25, 1939.

53,275.—*Title:* DIXON'S ASPIRIN. For Aspirin Tablets. DIXON CHEMICAL CORPORATION, New York, N. Y. Published May 23, 1939.

53,276.—*Title:* FIGOLA. For a Food Beverage. FIGOLA PRODUCTS CO., Orlando, Fla. Published May 30, 1939.

53,277.—*Title:* FYR-PACK. For Rabbit Meat. GENERAL MILLS, INC., Minneapolis, Minn. Published April 6, 1939.

53,278.—*Title:* LONDON BOW TIE. For Bow Ties. GLOVE NOVELTY HOUSE, New York, N. Y. Published June 1, 1939.

53,279.—*Title:* EVERSWEET. For a Mixture of Smoking Tobacco. ALFRED W. GRUNOW, doing business as Private Blends Tobacco Company, Belleville, N. J. Published May 13, 1939.

53,280.—*Title:* CHILK CHOCOLATE FLAVOR DRINK. For a Chocolate Flavor Drink. B. HELLER & COMPANY, Chicago, Ill. Published June 5, 1939.

53,281.—*Title:* THE METHOD DESIGNED FOR PERFECT STYLING. For Machineless Permanent Waving Supplies. THE HERMETIC CORPORATION, Indianapolis, Ind. Published June 19, 1939.

53,282.—*Title:* STEIN BEER. For Beer. HOME SERVICE BEVERAGE CO., Glendale, Calif. Published March 28, 1939.

53,283.—*Title:* MEAD'S HALIBUT LIVER OIL. For Halibut Liver Oil. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 12, 1939.

53,284.—*Title:* MEAD'S COD LIVER OIL FORTIFIED WITH PERCOMORPH LIVER OIL. For Cod Liver Oil Fortified with Percomorph Liver Oil. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 15, 1939.

53,285.—*Title:* MEAD'S CEREAL ENRICHED WITH MINERAL AND VITAMIN CONTAINING FOODS. For a Palatable Mixed Cereal Food, Vitamin and Mineral Enriched, Composed of Wheatmeal (Farina), Oatmeal, Yellow Cornmeal, Wheat Embryo, Powdered Beef Bone Specially Prepared for Human Use, Dried Yeast, Powdered Dehydrated Alfalfa Leaf, and Iron Salt. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 10, 1939.

53,286.—*Title:* MEAD'S CEREAL ENRICHED WITH MINERAL AND VITAMIN CONTAINING FOODS. For a Palatable Mixed Cereal Food, Vitamin and Mineral Enriched, Composed of Wheatmeal (Farina), Oatmeal, Yellow Cornmeal, Wheat Embryo, Powdered Beef Bone Specially Prepared for Human Use, Dried Yeast, Powdered Dehydrated Alfalfa Leaf, and Iron Salt. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 10, 1939.

53,287.—*Title:* KALON. For a Concentrated Silk Cleaner. THE KALON MFG. CO. (NOT INC.), Chicago, Ill. Published May 15, 1939.

53,288.—*Title:* KEEP KLEAN COVERS. For Automobile Seat Covers. KEEP KLEAN COVER CO., INC., St. Louis, Mo. Published May 1, 1939.

53,289.—*Title:* ASBESTOS FIBRE ROOF CEMENT. For an Asbestos Fibre Liquid Roof Cement. LOUIS LANCE, doing business as Washington Asphalt Products, Chicago, Ill. Published May 16, 1939.

53,290.—*Title:* ENCORE. For Beer. MONARCH BREWING COMPANY, Chicago, Ill. Published May 3, 1939.

53,291.—*Title:* DAWN FRESH. For Frosted Sliced Strawberries in Sugar Syrup. NATIONAL RETAILER-OWNED GROCERS, INC., Chicago, Ill. Published February 27, 1939.

53,292.—*Title:* OPEN STEEL FLOORING INSTITUTE, INC. OFFICIAL INSIGNIA. For Open Steel Flooring. OPEN STEEL FLOORING INSTITUTE, INC., Pittsburgh, Pa. Published May 11, 1939.

53,293.—*Title:* BRUNSWICK. For Whiskey. MICHAEL PASQUALE, Boston, Mass. Published May 16, 1939.

53,294.—*Title:* PELLEGRINI. For Wines. PELLEGRINI BROS. WINERY, San Francisco, Calif. Published June 21, 1939.

53,295.—*Title:* BUB'S PILSEN BEER. For Beer. PETER BUB BREWERY, INC., doing business as Peter Bub Brewery, Winona, Minn. Published April 10, 1939.

53,296.—*Title:* FRESH NO. 2. For Deodorant Cream. THE PHARMA-CRAFT CORPORATION, Louisville, Ky. Published April 7, 1939.

53,297.—*Title:* FRESH NO. 2. For Deodorant Cream. THE PHARMA-CRAFT CORPORATION, Louisville, Ky. Published May 11, 1939.

53,298.—*Title:* REEVE'S GLOV-GLAZ. For a Paste-Like Compound. REEVE'S GLOV-GLAZ COMPANY, North Olmsted and Cleveland, Ohio. Published May 16, 1938.

53,299.—*Title:* BLUE GRASS TOBACCO POWDER. For Tobacco Powder. EDW. F. STOLL, doing business as Sterling Tobacco Powder Company, Louisville, Ky. Published April 15, 1939.

53,300.—*Title:* BABY CHICK TOBACCO POWDER. For Tobacco Powder. EDW. F. STOLL, doing business as Sterling Tobacco Powder Company, Louisville, Ky. Published April 15, 1939.

53,301.—*Title:* INSECTOBAC. For a Tobacco Product Used as an Insecticide and a Plant Food. EDW. F. STOLL, doing business as Sterling Tobacco Powder Company, Louisville, Ky. Published April 15, 1939.

53,302.—*Title:* TONOL. For an Internal Tonic Medicine. THE TONOL COMPANY, INCORPORATED, Los Angeles, Calif. Published May 24, 1939.

53,303.—*Title:* TUCHTYPE KEYBOARD. For Specially Shaped Guide Keys for Typewriters. UNDERWOOD ELLIOTT FISHER COMPANY, New York, N. Y. Published April 24, 1939.

53,304.—*Title:* X-PANDOTITE, AN EXPANDING CEMENT FOR GENERAL HOUSEHOLD REPAIRS. For an Expanding Cement for General Household Repairs. X-PANDOX CORPORATION, Long Island City, N. Y. Published May 15, 1939.

PRINTS

REGISTERED JULY 18, 1939

17,493.—*Title:* FOR THOSE WHO WANT THE BEST. For Beer. BLATZ BREWING COMPANY, Milwaukee, Wis. Published April 1, 1939.

17,494.—*Title:* EAT-A-POP. For Lollypops and Lollypop Display Stands. C. A. BRIGGS COMPANY, Cambridge, Mass. Published June 1, 1939.

17,495.—*Title:* EARLY TIMES. For Kentucky Straight Bourbon Whisky. BROWN-FORMAN DISTILLERY COMPANY, Louisville, Ky. Published April 17, 1939.

17,496.—*Title:* THE RACKET THAT MAKES THE STAR. For Tennis Rackets. HORACE W. HALL, Newton Highlands, Mass. Published May 12, 1939.

17,497.—*Title:* HILLS BROS. BLUE CAN BRAND COFFEE—HERE'S AROMA FLAVOR STRENGTH—ADFORM 1011. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published June 1, 1939.

17,498.—*Title:* IT'S ICED COFFEE TIME—HILLS BROS. COFFEE—ADFORM 1009. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published June 1, 1939.

17,499.—*Title:* FIRST AID AFTER AND BEFORE. For Oil Paintings. C. FRITZ HOELZER, Bloomfield, N. J. Published June 8, 1939.

17,500.—*Title:* FILM-X MOTOR OIL. For Motor Oil. HOWARD G. HORNIBROOK, doing business as Apex Oil Products Company, Minneapolis, Minn. Published May 25, 1939.

17,501.—*Title:* RUM. For Puerto Rican Rum. P. R. MONGE, Rockaway Beach, N. Y. Published June 4, 1939.

17,502.—*Title:* CAMEL E-27. For Cigarettes. R. J. REYNOLDS TOBACCO COMPANY, Winston-Salem, N. C. Published June 14, 1939.

17,503.—*Title:* TEX-O-LENE CHIEF, CHIEF OF THEM ALL. For Gasoline. GRADY D. ROUSE, Dallas, Tex. Published March 1, 1939.

17,504.—*Title:* EARLY AMERICAN OLD SPICE TALCUM. For Talcum. SHULTON, INC., New York, N. Y. Published April 27, 1939.

17,505.—*Title:* THE SINGER TUCK-AWAY PORTABLE SEWING ROOM. For Sewing Machines, Electric Irons and Accessories Therefor. THE SINGER MANUFACTURING COMPANY, Elizabeth, N. J., and New York, N. Y. Published June 8, 1939.

17,506.—*Title:* BAKED CANADIAN STYLE BACON FOR DINNER. For Canadian Style Bacon Enclosed in Transparent Casings. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,507.—*Title:* BAKED HAM DINNER TODAY. For Ham. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,508.—*Title:* "COTTAGE BUTTS" FOR DINNER TODAY. For Cottage Butts Wrapped in Transparent Containers. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,509.—*Title:* DINNER TODAY. For Pork Loin Roasts. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,510.—*Title:* FOR DINNER TODAY. For Bologna. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,511.—*Title:* FOR DINNER TODAY LIVER SAUSAGE BROILED WITH MUSHROOMS AND EGGS. For Liver Sausage Enclosed in Transparent Containers. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,512.—*Title:* FOR DINNER TODAY—"MAGIC" WITH BOILED HAM. For Boiled Ham Loaves. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,513.—*Title:* HAM SLICES WITH BARBECUE SAUCE. For Boneless Smoked Ham in Containers. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,514.—*Title:* ROAST LEG O' LAMB FOR DINNER TODAY. For Lamb. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,515.—*Title:* SAUSAGE AND HOMINY DINNER. For Fresh Pork Sausage Wrapped in Transparent Casings. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

17,516.—*Title:* VEAL ROAST DINNER TODAY. For Veal. TRANSPARENT PACKAGE COMPANY, Chicago, Ill. Published April 1, 1939.

REISSUES

JULY 18, 1939

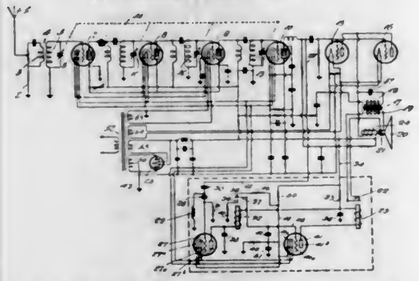
21,151

RADIO RECEIVING SYSTEM

George P. Adair, Takoma Park, Md.

Original No. 1,949,136, dated February 27, 1934, Serial No. 561,758, September 8, 1931. Application for reissue February 26, 1936, Serial No. 65,927

33 Claims. (Cl. 179—1)



1. In a radio receiving system, means for receiving signaling energy, a sound reproducing system, an auxiliary control circuit connected with said signal receiving means and means controlled by said auxiliary control circuit for discriminating against programs of substantially intermittent character and substantially continuous character received by said signal receiving means for correspondingly controlling the continuity of the circuit between said signal receiving means and said sound reproducing system.

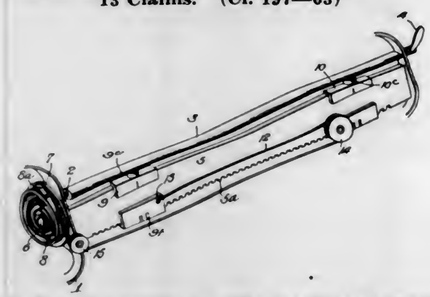
21,152

MARGIN-REGULATING STOP

Harold C. Fox, Waterloo, Iowa

Original No. 2,135,177, dated November 1, 1938, Serial No. 151,384, July 1, 1937. Application for reissue May 2, 1939, Serial No. 271,355

13 Claims. (Cl. 197—63)



9. In a typewriting or like machine, a margin regulating means comprising in combination, a carriage, a dentated bar mounted on and shiftable with the carriage, abutments mounted in the machine frame adjacent said bar, marginal stops mounted slidably on said bar for occasional separate and independent engagements with said abutments, each marginal stop including a resiliently controlled detent releasably engaged with the teeth of the bar, a spring drum mounted on the carriage adjacent one end of said bar, a cable end-connected to and windable on said drum, a sheave mounted on the margin stop most remote from said drum, the cable being reeved around the sheave on the margin stop most remote from the drum and connected at its other end to the margin stop nearest the drum, and oppositely rockable means on the carriage for manually disengaging either stop detent from the bar.

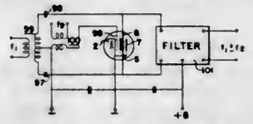
21,153

FREQUENCY CONVERSION SYSTEM

Louis A. Hazeltine, Hoboken, N. J., assignor to Hazeltine Corporation, a corporation of Delaware

Original No. 2,113,464, dated April 5, 1938, Serial No. 61,819, January 31, 1936. Application for reissue June 4, 1938, Serial No. 211,818

17 Claims. (Cl. 250—27)



1. A frequency conversion system comprising, an electron discharge device including a pair of anodes, each of said anodes comprising a plurality of sections, the sections of one anode being disposed adjacent to the sections of the other anode, a control electrode, and a cathode for emitting electrons to said anodes, means including said control electrode for separating said electrons into a plurality of streams, each of said streams dividing between a section of one anode and an adjacent section of the other anode, an output circuit coupled to said anodes, two alternating voltage sources, one of said voltages having a frequency different from the frequency of the other voltage, means for alternately deflecting each of said streams toward one and then the other of its respective adjacent anode sections at the frequency of one of said voltages, without affecting the total electron emission to said anodes, to vary the division of current between said anodes thereby to produce current variations in said output circuit at said frequency, and means including said control electrode for varying the total electron emission to said anodes at the frequency of the other of said voltages to modulate said current variations in said output circuit at said other frequency.

21,154

SUMMER-WINTER AIR CONDITIONING SYSTEM

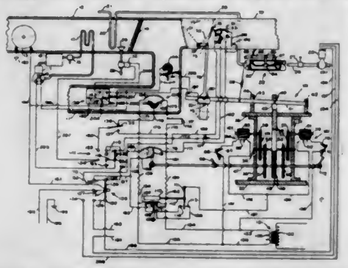
George D. Kingsland, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Original No. 2,123,428, dated July 12, 1938, Serial No. 729,253, June 6, 1934. Application for reissue May 20, 1939, Serial No. 274,850

48 Claims. (Cl. 257—3)

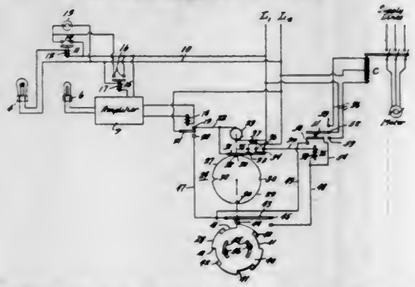
1. A system of the class described, comprising, in combination, a combined heating and cooling system including variably positionable damper means for controlling the flow of outdoor air to a space which it is desired to control, means for controlling said damper means to move the

same through one range in the winter, means for controlling said damper means to move the same through a different range in the summer, and a single manually operable master control for rendering the entire system inoperative and for



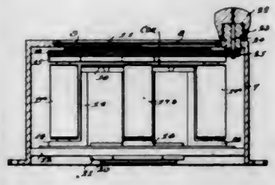
operating said damper means to move the same to closed position to prevent the flow of outdoor air to said space irrespective of whether the damper means was being controlled for summer or winter operation.

21,155
CONTROL SYSTEM
Howard L. Miller, Philadelphia, Pa.
Original No. 1,950,256, dated March 6, 1934, Serial No. 680,648, July 15, 1933. Application for reissue March 3, 1936, Serial No. 66,971
18 Claims. (Cl. 171—97)



2. In an energy consuming system having a meter with a movable element which traverses the face of the meter, a demand controlled device free of mechanical connection with said meter, comprising a source of light arranged to project a light beam onto the face of said meter at a predetermined point in the path of a reflecting portion of said element, light-responsive means arranged to receive the reflected light when said portion intercepts said beam, and means controlled by said light-responsive means for effecting a desired function only when said portion intercepts said beam during movement of said element at a rate in excess of a predetermined rate.

21,156
INDUCTOR COMPASS
Henry D. Oakley, Woodlynne, N. J.
Original No. 2,132,183, dated October 4, 1938, Serial No. 84,956, June 12, 1936. Application for reissue April 13, 1939, Serial No. 267,729
9 Claims. (Cl. 33—204)



9. In a device for indicating the angular relation of a magnetic field with respect to a given reference line, means for generating two alternating potentials of like frequency but differing in phase by an angle equal to the space angle between said field and said reference line, a phase indicating device, and means connecting said generating means and said phase indicating device, said phase indicating device comprising a scale, a needle, a rotatable vane secured to said needle, and a plurality of electrostatic field plates disposed adjacent to said vane and adapted to be energized by one of said alternating potentials to produce a rotating electrostatic field, said rotatable vane being adapted to be energized by said other alternating potential.

PLANT PATENTS

GRANTED JULY 18, 1939

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

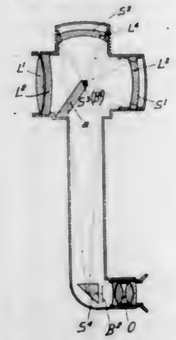
335
ROSE PLANT
Walter Irwin Johnston, Portadown, Ireland, assignor to Jackson & Perkins Company, Newark, N. Y.
Application December 17, 1938, Serial No. 246,468
1 Claim. (Cl. 47—61)

A new and distinct variety of Hybrid Tea rose plant, characterized as to novelty by its vigorous habit of growth and the abundance of white exhibition flowers softened by a Martius Yellow glow at their bases, substantially as shown and described.

PATENTS

JULY 18, 1939

2,166,102
TELESCOPE COMPRISING TWO REFRACTING AND ONE REFLECTING SYSTEMS
Heinrich Wild, Romerburg, Baden, Switzerland
Application March 24, 1937, Serial No. 132,771
In Switzerland April 1, 1936
3 Claims. (Cl. 88—32)

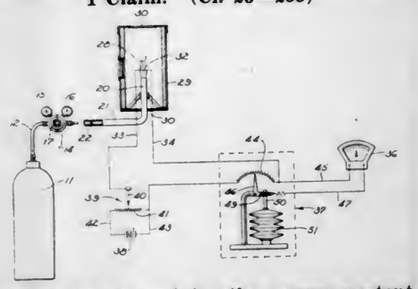


1. A Gregorian reflecting system of the axial-displacement type and of the character described, comprising, in sequence with the path of light, an objective lens system, a single concave spherical lens with silvered rear surface as the primary speculum optically co-axial with the said objective system, a right-angled prism with silvered hypotenuse surface at the focal point of the primary speculum, a single concave spherical lens with silvered rear surface as the secondary speculum the optical axis of which is at right angles to the common optical axis of objective system and primary speculum, and a second right-angled prism with silvered hypotenuse surface immediately in front of the focal point of the secondary speculum from which the rays of light are deflected at right angles into the ocular system of the reflector.

2,166,103
ART OF TREATING FATTY OILS
Otho M. Behr, Redondo Beach, Calif., assignor to Vegetable Oil Products Company, Inc., Los Angeles, Calif., a corporation of Delaware
No Drawing. Application May 10, 1937, Serial No. 141,881
8 Claims. (Cl. 260—428)

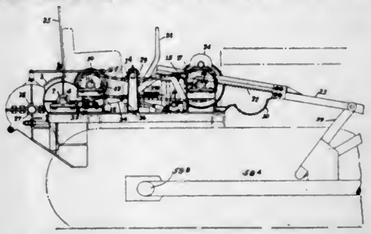
1. A method of treating partially polymerized vegetable and marine oils containing polymers of unsaturated constituents in liquid phase and not as solid gels, the oils being capable of exhibiting a drop in iodine value upon heat-bodying, to produce an oil fraction having enhanced drying properties, comprising: mixing a given volume of such partially polymerized oil with not less than three volumes of an organic solvent from the group consisting of ketones and higher alcohols, permitting the mixture to settle and stratify into two layers, each containing a solution of oily constituents and solvent, separating the bottom layer containing polymerized constituents having enhanced drying properties from the upper layer, and separating solvent from the upper layer to obtain a substantially non-drying oil.

2,166,104
METHOD AND APPARATUS FOR INDICATING OXYGEN CONCENTRATION IN A GASEOUS MEDIUM
Franklin Rudolf Collbohm, Santa Monica, Calif., assignor to Douglas Aircraft Company, Inc., Santa Monica, Calif., a corporation of Delaware
Application August 26, 1935, Serial No. 38,009
1 Claim. (Cl. 23—255)



Method for determining the oxygen content of gaseous mixtures of the class consisting of air, and mixtures of oxygen with non-combustible gases, comprising forming a flame by supplying fuel to an orifice at a constant rate, passing a sample of the gaseous mixture as a surrounding envelope about the fuel stream to supply the oxygen required for the formation of the flame, the fuel being supplied at such constant rate as to be insufficient to burn all the oxygen in the sample, measuring the temperature within the flame structure in an area of the flame fixed and predetermined with relation to the fuel orifice.

2,166,105
COMBINED GEAR POWERED BULLDOZER AND HOIST
Theodore P. Flynn and Raymond E. Neils, Portland, Oreg.; dedicated to the free use of the People of the United States of America
Application September 13, 1937, Serial No. 163,642
4 Claims. (Cl. 37—144)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



2. In a bulldozer, mechanism for actuating blade carrying pusharms, a power transmitting mechanism consisting of a divided cross shaft, a clutch disengagedly connecting both segments of said cross shaft, two driven sprockets and two rack pinions keyed to said shaft, two racks cooperatively engaged with said rack pinions, respectively, and a brake unit mounted on said

cross shaft, all being cooperatively adapted to independently transmit power to said pusharms and to hold said pusharms from movements relative to said bulldozer.

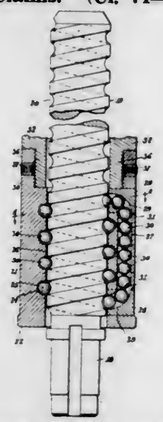
2,166,106

BALL-BEARING SCREW AND NUT FOR LIFTING JACKS AND SIMILAR DEVICES

Frank L. Gormley, Brookline, Mass., assignor to The Buda Company, Harvey, Ill., a corporation of Illinois

Application February 4, 1938, Serial No. 188,717

7 Claims. (Cl. 74—459)



1. The combination of a rotatable screw prevented from end movement and having a widely separated helical concaved groove; a non-rotatable cylindrical nut surrounding said screw and provided with an endless ball passage, a portion of which is helical and extends through the inner wall of said nut with its center spaced outwardly from said inner wall; a cylindrical block disposed in the cylindrical wall of said nut having curved openings therein connecting the opposite ends of the helical portion of said passage with the opposite ends of a straight portion of said passage extending lengthwise of said nut, the inner end of said block being provided with a curved groove, the wall of which forms a part of the ball passage; and a continuous train of balls confined within said passage with the small portions of said balls disposed within the groove of said screw while moving through the helical portion of the ball passage.

2,166,107

HOLDER FOR COLLAPSIBLE TUBE CONTAINERS

Joseph Holt, Seattle, Wash.

Application February 12, 1938, Serial No. 190,243

1 Claim. (Cl. 221—60)



A closure for collapsible tube containers of that kind having an externally threaded discharge neck comprising a cap formed with a flat top surface and having a socket in its under side to receive the tube discharge neck therein to fixedly mount the cap and having a discharge passage from the base of the socket to the top surface of the cap, and having a laterally opening socket in one side thereof, a closure plate disposed flatly against the top surface and overlying the said opening, a pivot pin extended through the plate and mounting the latter on the cap, and extending through said laterally opening socket, a handle extended from the plate to the side of the cap and movable for actuating the plate to uncover said opening, a stop on the cap for limiting the closing movement of the plate and a coiled spring mounted on that part of the said pin extending through the laterally opening socket of the cap and bearing against the handle to yieldingly urge the plate to closed position.

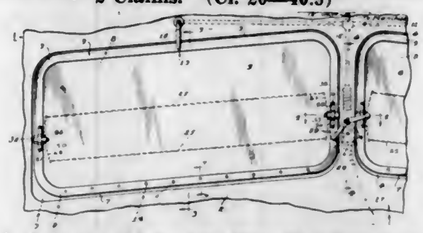
2,166,108

WINDSHIELD

Aage Jensen, Phillips, Wis.

Application November 27, 1936, Serial No. 113,031

2 Claims. (Cl. 20—40.5)



1. A device of the class described comprising an automobile windshield in combination with an attachment adapted to provide for conditioning of the air adjacent to the inner side of the windshield, said attachment including a pane of glass spaced inwardly from and parallel with the windshield to provide an air space, and a peripheral tubular chamber surrounding said space, the upper part of said chamber being separate from the lower part, means to gradually exhaust the air from the upper part and means to admit air to the lower part, said peripheral chamber as a whole being separated from said air space by felt-like means adapted to permit gradual seepage of air therethrough.

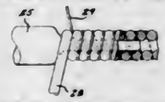
2,166,109

METHOD OF MAKING TUBING FOR REFRIGERATING APPARATUS

John Karmazin, Huntington, Ind., assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application June 11, 1936, Serial No. 84,710

4 Claims. (Cl. 29—157.3)



1. A method of manufacturing tubing for refrigerating apparatus or the like which includes spirally winding metal wire into the form of a spring, placing bonding material with the spring, heating the same to bond the individual loops of the spring together, electro-depositing a protecting coating on the tube, and compressing the electro-deposited material.

2,166,110

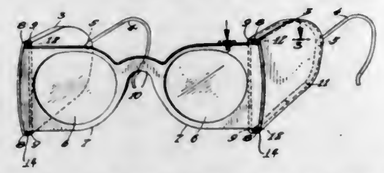
SPECTACLES

Nicholas T. Baldanza, Passaic, N. J.

Application May 21, 1938, Serial No. 209,265

5 Claims. (Cl. 2—13)

1. In a device of the character described, the combination of a spectacle frame and a pair of templers attached thereto, said templers consisting of compartments pivotally connected to the extremities of said spectacle frame and



adapted to be swung in line with the frame and thence into substantial line abutment to enclose the frame.

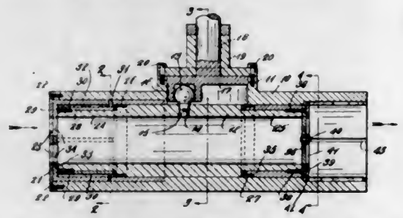
2,166,111

PUMP

Howard L. Bancroft, Sharon, Pa., assignor of one-half to Horace S. Smith, Hubbard, Ohio

Application May 9, 1938, Serial No. 206,698

8 Claims. (Cl. 103—157)



1. In a pump or the like, a cylinder, a plunger mounted in said cylinder, means for imparting a compound reciprocating and oscillating movement to said plunger, valve means for one end of said cylinder fixed against longitudinal movement, and means actuated by the plunger for imparting movement to said valve around the axis of the cylinder.

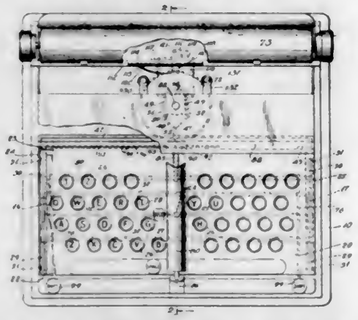
2,166,112

TOY TYPEWRITER

Harry Bates, New York, N. Y., assignor to Bates Laboratories, Inc., New York, N. Y.

Substitute for abandoned application Serial No. 753,262, November 16, 1934. This application September 26, 1938, Serial No. 231,836

21 Claims. (Cl. 197—47)



1. In a toy typewriter, the combination of, a platen, a type wheel disposed in front of said platen, a bodily shiftable keyboard, means actuated upon lateral displacement of said keyboard for rotating said type wheel, and means for moving said type wheel against said platen upon downward displacement of said keyboard.

2,166,113

FROZEN MATERIAL

Robert Henry Bedford, New York, N. Y.

No Drawing. Original application May 11, 1937, Serial No. 141,937. Divided and this application February 26, 1938, Serial No. 192,798

3 Claims. (Cl. 99—195)

1. Ice formed of water containing benzoic acid in an amount to impart non-cracking characteristics to said ice.

2. Frozen flesh foods having an ice glaze formed of water containing benzoic acid in an amount to impart non-cracking characteristics to said ice.

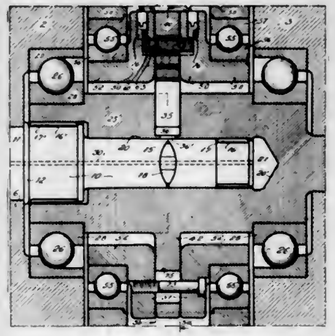
2,166,114

VARIABLE DISPLACEMENT PUMP OR MOTOR

Elek K. Benedek, Bucyrus, Ohio

Application December 24, 1934, Serial No. 758,987

18 Claims. (Cl. 103—161)



1. In a variable displacement pump or motor of the radial piston type, a casing, primary and secondary rotors in the casing, one carrying a set of pistons and crossheads and radial guides for the crossheads and the other paired reactance means for the crossheads and having radial walls, the crossheads being disposed between the radial walls of the reactance means in sliding relation thereto, slots in the radial walls of the reactance means extending past the crossheads in both directions circumferentially thereof, thrust plates having tangential portions guided in the crossheads respectively for oscillation therein tangentially of the machine, said thrust plates having end portions received in said slots of the reactance means, and means for securing the plates in said slots in fixed circumferential position relative to the reactance means, said slots and last named means constraining the plates from bodily rotation with respect to the reactance means.

2,166,115

GAMING DEVICE

Olav T. Bergenn, Brooklyn, N. Y.

Application July 19, 1938, Serial No. 219,952

3 Claims. (Cl. 273—97)

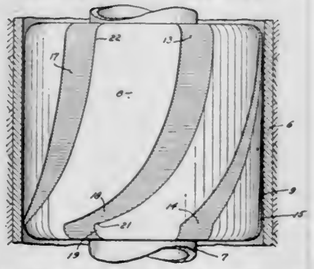
1. The combination of a handle, a suction cup

secured to said handle, a smooth surfaced ball,



and a string connecting said ball to said handle.

2,166,116
WELL CASING PROTECTOR
William I. Bettis, Los Angeles, Calif., assignor to Estelle B. Kleaver, Burbank, Calif.
Application December 6, 1937, Serial No. 178,298
9 Claims. (Cl. 308—4)



1. A device of the character described, comprising; a cylindrical annulus of resilient rubber-like material, adapted for mounting upon a coaxial drill pipe; the annulus having quasi-helical grooves in its outer cylindrical portion, extending from end to end thereof; and said grooves being adapted to convey and impel circulating fluid, when the device is axially rotated within a cylindrical casing which it fits with small clearance.

2,166,117
METHOD FOR THE PURIFICATION OF PETROLEUM MAHOGANY SULPHONATES
Manuel Blumer, Butler, Pa., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application January 19, 1937, Serial No. 121,288
12 Claims. (Cl. 260—504)

1. Method of purifying petroleum mahogany sulphonates containing entrained oil and inorganic salts which comprises contacting said impure sulphonates with a butyl alcohol and water in amount and ratio sufficient to thereby form a first liquid layer substantially free from inorganic salts and consisting predominantly of butyl alcohol and mahogany sulphonate plus entrained oil and a second liquid layer consisting predominantly of an aqueous solution of said inorganic salts, thereafter separating said first liquid layer from said second liquid layer and finally removing said butyl alcohol from said first liquid layer and recovering mahogany sulphonate plus entrained oil substantially free from inorganic salts.

2,166,118
INSECTICIDAL COMPOSITIONS CONTAINING HETEROCYCLIC AMIDES
Euclid W. Bousquet and Paul L. Salzberg, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 3, 1936, Serial No. 103,908
8 Claims. (Cl. 167—33)

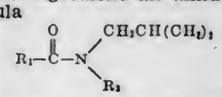
1. An insecticidal composition containing a neutral carboxylic acid amide having a heterocyclic radical and an aliphatic hydrocarbon residue of at least six carbon atoms.

3. An insecticidal composition containing a morpholide of a carboxylic acid having an aliphatic hydrocarbon residue of at least six carbon atoms.

6. An insecticidal composition containing a neutral carboxylic acid amide of a mono-amine having a heterocyclic radical and an aliphatic hydrocarbon residue of at least six carbon atoms.

2,166,119
INSECTICIDE
Euclid W. Bousquet, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 3, 1936, Serial No. 103,909
10 Claims. (Cl. 167—24)

2. An insecticidal composition comprising as an essential toxic ingredient an amide represented by the formula

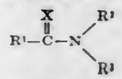


in which R_1 is an aliphatic hydrocarbon radical having from seven to eleven carbon atoms, and R_3 is chosen from the group consisting of hydrogen and aliphatic hydrocarbon radicals.

5. The monoisobutylamide of 10,11-undecylenic acid characterized as a colorless, oily material boiling at 158–160 degrees C. at 2 mm. and melting at 24–25 degrees C. having insecticidal properties.

2,166,120
INSECTICIDAL COMPOSITION
Euclid W. Bousquet, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 12, 1937, Serial No. 158,704
24 Claims. (Cl. 167—22)

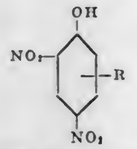
8. An insecticidal composition comprising a solution of pyrethrum having dissolved therein an aciamide having the structure



wherein X is selected from the group consisting of oxygen and sulfur, R^1 is selected from the group consisting of hydrogen and a hydrocarbon radical and R^2 and R^3 are selected from the group consisting of hydrogen or a hydrocarbon residue and wherein one R is aliphatic and has at least six carbon atoms.

2,166,121
DUSTING COMPOSITION
Alfred M. Boyce, Riverside, Calif., dedicated by assignment to the Government and the People of the United States of America
No Drawing. Application December 9, 1937, Serial No. 178,878
7 Claims. (Cl. 167—31)

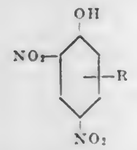
1. An insecticidal composition adapted to be dusted on growing plants, consisting of an impalpable powder comprising walnut shell flour of smaller particle size than 100 screen mesh, and carrying as an insecticidal toxicant intimately incorporated therewith a compound having the formula



wherein R represents a hydrocarbon group containing at least 3 carbon atoms selected from the class consisting of the alkyl and cycloalkyl radicals.

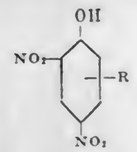
2,166,122
DUSTING COMPOSITION
Alfred M. Boyce, Riverside, Calif., dedicated by assignment to the Government and the People of the United States of America
No Drawing. Application December 9, 1937, Serial No. 178,879
12 Claims. (Cl. 167—31)

1. An insecticidal composition adapted to be dusted on growing plants, consisting of an impalpable powder comprising a redwood flour of smaller particle size than 100 screen mesh, and carrying as an insecticidal toxicant intimately incorporated therewith a compound having the formula



wherein R represents a hydrocarbon group containing at least 3 carbon atoms selected from the class consisting of the alkyl and cycloalkyl radicals.

7. An insecticidal composition adapted to be dusted on growing plants, consisting of an impalpable powder comprising redwood bark flour of smaller particle size than 100 screen mesh, and carrying as an insecticidal toxicant intimately incorporated therewith a compound having the formula

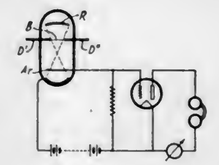


wherein R represents a hydrocarbon group containing at least 3 carbon atoms selected from the class consisting of the alkyl and cycloalkyl radicals.

2,166,123
TERMINATION OF REST PERIOD OF DECIDUOUS PLANTS
Alfred M. Boyce, Riverside, William H. Chandler, Berkeley, and Marston H. Kimball, Alhambra, Calif., dedicated by assignment to the Government and the People of the United States of America
No Drawing. Application January 19, 1938, Serial No. 185,694
11 Claims. (Cl. 47—58)

1. In a method for hastening the termination of the rest period of deciduous trees, the chilling requirements of which have been incompletely satisfied, the step which consists of artificially stimulating the opening of the tree buds by the application of a relatively small amount of a dinitro-phenol compound to the tree from 2 to 12 weeks prior to the normal blossoming time.

2,166,124
METHOD OF DETECTING HIGH-FREQUENCY OSCILLATIONS
Felix Breyer, Hanover, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application November 3, 1937, Serial No. 172,519½
In Germany November 3, 1936
2 Claims. (Cl. 250—25)

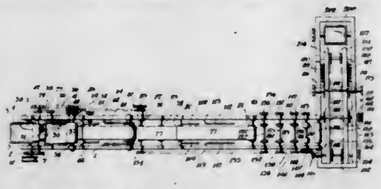


1. An electrical discharge device for receiving electrical oscillations comprising a thin filament wire, a photo-electric cathode located on one side of said filament wire and adapted to be heated by said filament, a reflector on the other side of said filament wire for concentrating the heat from said filament upon said photo-electric cathode, and an anode permeable to heat and light located between said filament wire and said cathode; said filament, photo-electric cathode, reflector and anode being located within a gas-tight envelope; and means connected to opposite ends of said filament wire for collecting high frequency energy.

2,166,125
PRESERVATION AND UTILIZATION OF STYRENE
Joseph W. Britton, Ralph F. Prescott, and Robert C. Dosser, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application August 28, 1936, Serial No. 98,340
2 Claims. (Cl. 202—57)

2. The method which comprises distilling a solution consisting of styrene to which sulfur has been added in a small amount as a polymerization inhibitor to recover the styrene as a distillate in polymerizable form.

2,166,126
METHOD AND APPARATUS FOR ASSEMBLING WRAPPED BOXES
Herman A. Carruth, Northford, Conn., assignor to National Folding Box Company, New Haven, Conn., a corporation of New Jersey
Application May 25, 1938, Serial No. 209,920
20 Claims. (Cl. 93—40)



19. Apparatus for making wrapped paperboard boxes from a relatively stiff body blank having a bottom section, side and end wall sections, and corner tabs extending from said side wall sections, and a wrapper blank having side and end wall flaps normally extending beyond the free edges of the respective side and end wall sections of the body blank, said apparatus including, means for adhesively securing a wrapper blank in registered position upon said body blank providing a blank assembly, means for applying adhesive to the side wall flaps of said wrapper blank, means for folding the side wall flaps into adhesive contact with the side wall sections of said body blank, means for applying adhesive to the end wall flaps, box-erecting mechanism, and means for feeding the blank assembly into said box-erecting mechanism.

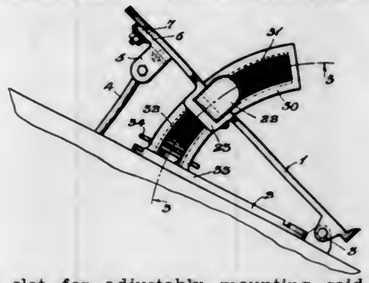
2,166,127
SHAMPOO COMPOSITION
Frank J. Cahn and Morris B. Katzman, Chicago, Ill.
No Drawing. Application January 8, 1938, Serial No. 184,030
13 Claims. (Cl. 87—5)

1. A shampoo composition comprising an aqueous solution of at least 5% of a lower molecular weight sulpho-fatty acid ester of a higher molecular weight alcohol, the hydrogen of the sulphonic group of which is replaced by the radical of an organic nitrogenous base, the lower molecular weight sulpho-fatty acid radical containing less than eight carbon atoms and the higher molecular weight alcohol radical containing at least eight carbon atoms, said shampoo being stable against crystallization on being super-cooled.

8. A viscous hair shampoo comprising an aqueous solution of at least 5% of lauryl monoethanolamine sulpho-acetate and monoethanolamine sulphate as a thickening agent, said shampoo being stable against crystallization on being super-cooled.

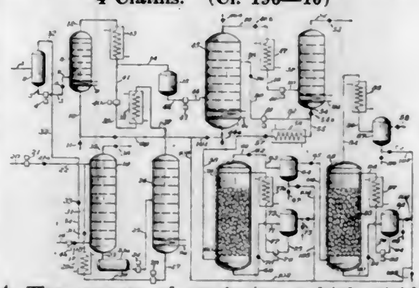
2,166,128
ACCELERATOR
George F. Castle, Baltimore, Md., assignor of one-half to Henry A. Buhman, Baltimore, Md.
Application October 18, 1937, Serial No. 169,717
14 Claims. (Cl. 74—513)

1. In apparatus of the character described, the combination of a pivoted accelerator pedal, means to retain said pedal against movement in either direction and means for connecting said pedal to an accelerator rod, said last-named means including a plate member having a lug connected thereto, said lug having an aperture therein for the reception of the end of an accelerator rod, said pedal member having a slot therein and connecting means extending through



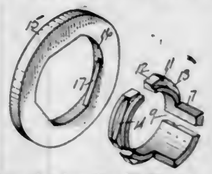
said slot for adjustably mounting said plate member upon said pedal.

2,166,129
POLYMERIZATION OF HYDROCARBON GASES
Fred M. Clothier, Jr., Lansdowne, and Hugh W. Field, Glen Mills, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 27, 1935, Serial No. 42,408
4 Claims. (Cl. 196—10)



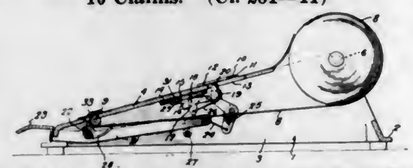
4. The process of producing a high yield of high antiknock motor fuel of desired volatility which comprises initially separating cracked gasoline from the uncondensed gases formed during cracking, distilling from said cracked gasoline substantially all constituents and dissolved gases lower boiling than the C_5 hydrocarbons to produce debutanized gasoline, subjecting C_4 hydrocarbons contained in said distilled constituents and dissolved gases to polymerization, separating unpolymerized hydrocarbons from the polymers thus formed, blending debutanized gasoline and polymers and adding sufficient C_4 hydrocarbons to produce a high antiknock motor fuel of desired volatility.

2,166,130
REMOVABLE LOCKING DEVICE
Allan R. Coe, Manchester, Conn., assignor to The Carlyle Johnson Machine Co., Manchester, Conn., a corporation of Ohio
Application December 2, 1937, Serial No. 177,804
6 Claims. (Cl. 287—53)



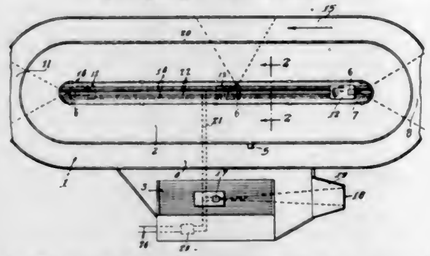
1. A locking device including a support having a groove near its end, a locking shoulder formed in the wall of said groove, creating a retaining lip bounding said shoulder, a locking ring shaped to fit over the end of said support and having a locking lip formed to pass along said groove and engage said shoulder to prevent said ring from turning, and means to retain said locking lip engaged with said shoulder.

2,166,131
"MEMO" STAND
Merritt E. Duncan, Atlanta, Ga.
Application November 25, 1936, Serial No. 112,808
10 Claims. (Cl. 281—11)



1. "Memo" stand comprising a hollow frame having a writing top, said frame being adapted to carry a roll of paper adjacent one end for supplying paper ribbon to said writing top, said writing top being provided adjacent the end remote from said roll with a slot through which said paper ribbon issues from within said frame, an actuating lever at the end of said frame remote from said roll adapted to be actuated by the heel of the writing hand, said writing top being formed with an elongated aperture at some point between said slot and said roll, a back stop secured to said writing top and in spaced relation thereto above said aperture between which back stop and said writing top the paper ribbon passes, and feeding means within said frame actuated by said lever, said feeding means comprising an element constructed to swing against said paper ribbon, when actuated, at a point between itself and said back stop, gripping said paper ribbon, and to slide with said paper ribbon upon inhibition of its gripping movement.

2,166,132
APPARATUS FOR REPRODUCING RACES
Francis Du Pont Ammen, Los Angeles, and William H. Maxwell, Beverly Hills, Calif., assignors of one-third to Casimir A. Miketta, Los Angeles, Calif.
Application July 1, 1936, Serial No. 88,352
3 Claims. (Cl. 88—24)

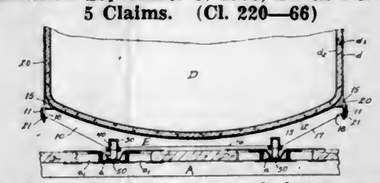


1. In apparatus for reproducing a race, the combination of a track having a substantially arcuate curved end section and substantially parallel stretches connecting with the same, a vehicle located substantially at the center of curvature of the said arcuate curved section, a guideway for said vehicle extending from said center of said curved end section and substantially parallel with the said stretches, an image-registering device with a lens mounted on the vehicle to rotate on a substantially vertical axis for registering images of the racers in the device while running on the curved sections, said vehicle operating to proceed along the said guideway and between the stretches to maintain itself substantially opposite to the racers and with the lens constantly in focus therewith as they race along the stretches.

2,166,133
THERAPEUTICALLY VALUABLE GOLD COMPOUNDS AND A METHOD FOR PRODUCING THE SAME
Adolf Feldt, Berlin-Charlottenburg, Karl Schöllkopf, Berlin-Dahlem, and Adolf Schmitz, Berlin-Friedenau, Germany
No Drawing. Application July 28, 1936, Serial No. 93,126. In Germany August 2, 1935
19 Claims. (Cl. 260—113)

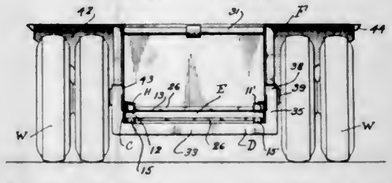
14. A gold keratinate as obtained by reacting an unreduced degradation product produced by a hydrolytic treatment of keratinous substances, with an inorganic gold compound, and neutralizing the reaction solution, said gold keratinate being soluble in water but insoluble in alcohol, and containing from 6 to 33% of gold.

2,166,134
DEMOUNTABLE TANK FOR VEHICLES
Benjamin F. Fitch, Greenwich, Conn., assignor to Motor Terminals, Inc., Cleveland, Ohio, a corporation of Ohio
Application September 9, 1935, Serial No. 39,726
5 Claims. (Cl. 220—66)



5. The combination of a tank, bolsters extending cross-wise of the tank on its under side and supporting the tank, said bolsters having downwardly facing notches therein, longiudinal beams occupying the notches and having lateral flanges at their lower edges, skid rails in the form of channel beams facing upwardly with flanges at their tops the flanges of the skid rails being directly beneath and secured to the flanges of the longitudinal beams.

2,166,135
MINE HAULAGE UNIT
James H. Fletcher, Wilmette, Ill.
Application April 19, 1937, Serial No. 137,632
2 Claims. (Cl. 280—2)



1. A mine haulage unit comprising a cradle having a pair of spaced opposed and vertically extending side walls rising from a transversely extending connecting member adapted to provide a seat for a chassis, a chassis seated on said seat and guidedly aligned by and between said side walls, a stub axle on each of said side walls and

near the upper end thereof, a wheel mounted on each of said stub axles, and a hopper body seated in said chassis and being provided with spaced opposed longitudinally extending sides dished to receive and guard said wheels.

2,166,136

METHOD OF FORMING NUCLEAR ALKYL DERIVATIVES OF PHENOLS

Lawrence H. Flett, Hamburg, N. Y., assignor to National Aniline & Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application September 26, 1935, Serial No. 42,354. Renewed December 1, 1936

15 Claims. (Cl. 260—624)

1. The method of producing nuclear alkyl derivatives of phenols which comprises heating at a condensation temperature a reaction mixture containing a phenol compound selected from the group consisting of phenol and its mono-methyl derivatives, an open-chain alkyl mono-halide containing at least 12 carbon atoms and a zinc condensing agent, and continuing the heating for a considerable period of time after substantially no increase in yield of condensation product is obtained.

2,166,137

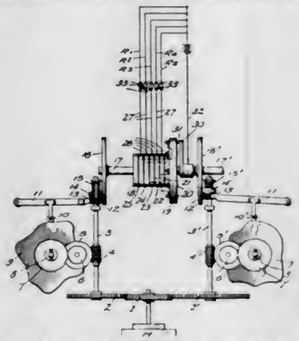
ELECTRICAL SWITCHING MECHANISM

William F. Friedman, Washington, D. C., and Frank B. Rowlett, East Falls Church, Va.

Application August 19, 1935, Serial No. 36,868

10 Claims. (Cl. 200—17)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a mechanism of the character described, a pair of rotating bodies associated for operative movement relative to one another; friction drives having a slipping action and arranged to actuate said bodies in a discrete time relation; and means including a system of differential gearing and cams of irregular contours operatively coordinated with said gearing and with each of said drives individually to aid the slipping action and to effect aperiodic movement of said bodies relative to one another.

2,166,138

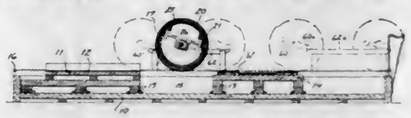
SURFACE DECORATING METHOD AND APPARATUS

Howard F. Gundlach, Cleveland, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich., a corporation of Michigan

Application December 15, 1937, Serial No. 179,954

15 Claims. (Cl. 101—35)

1. In a work decorating mechanism, a pattern, a work support, a deformable transfer roll, means to move the transfer roll alternately into rolling contact with the pattern and with work carried by said support, means to positively restrain the roll against deformation when the roll is in con-



tact with the pattern, and means independent of the printing pressure between the roll and the work to positively deform the roll while the roll is in contact with the work.

2,166,139

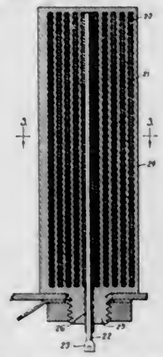
DIELECTRIC DEVICE

Robert G. Guthrie and Oscar J. Wilbor, Chicago, Ill., assignors, by mesne assignments, to Robert G. Guthrie

Application February 9, 1934, Serial No. 710,473

Renewed October 14, 1938

25 Claims. (Cl. 175—41)



1. An electrical device of the character described comprising an electrode formed as a casting of prismatic shape, another electrode embedded in said casting, and dielectric film means coating said embedded electrode, said film means being pressed into place and maintained in position under pressure of internal stresses developed in the casting during the formation of the same.

22. The method of making an electrical device which comprises treating a metal electrode to form a dielectric coating thereon comprising an oxide of the material of the electrode, and thereafter casting a conductor material in molten condition upon and around the coated electrode and permitting the conductor material to solidify in place whereby to form a block of conducting material in which the electrode is embedded and in which the internal forces set up in the conductor material upon solidification serve to press the same intimately, firmly and tightly upon the coated electrode.

2,166,140

DIALKYL FORMAMIDES AS SELECTIVE SOLVENTS FOR REFINING MINERAL OILS

Virgil L. Hansley, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 20, 1937, Serial No. 137,928

15 Claims. (Cl. 196—13)

1. The method of treating a normally liquid hydrocarbon mixture containing relatively paraffinic and relatively non-paraffinic compounds which comprises extracting the hydrocarbon mixture with an N-dialiphatic formamide boiling below 250° C. to separate the relatively non-paraffinic compounds from the relatively paraffinic compounds.

2,166,141

SULPHOCARBOXYLIC ESTERS

Benjamin R. Harris, Chicago, Ill.

No Drawing. Application August 5, 1935, Serial No. 34,840. Renewed January 23, 1939

8 Claims. (Cl. 260—400)

1. A sulpho-acetate of a lower molecular weight polyhydric alcohol wherein the hydrogen of one hydroxyl group of the polyhydric alcohol is substituted by a straight chain higher molecular weight unsaturated aliphatic radical.

2,166,142

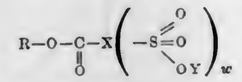
SULPHOCARBOXYLIC ACID ESTERS

Benjamin R. Harris, Chicago, Ill.

No Drawing. Application January 21, 1937, Serial No. 121,563. Renewed January 23, 1939

30 Claims. (Cl. 260—400)

1. A chemical compound corresponding to the formula



wherein R is the residue of a polyhydroxy substance in which the hydrogen of at least one hydroxyl group is substituted by an acyl group containing at least four carbon atoms, X is the carbon-hydrogen residue of a lower molecular weight sulpho-carboxylic acid, Y is a cation, and w is a small whole number, at least one.

2,166,143

SULPHOCARBOXYLIC ESTERS

Benjamin R. Harris, Chicago, Ill.

No Drawing. Application November 15, 1937, Serial No. 174,655

26 Claims. (Cl. 260—400)

1. Sulpho-carboxylic esters, suitable for use as assistants in the textile and related industries, corresponding to the general formula

$$R—COO—R_1$$

in which R denotes an aliphatic radical, containing up to 7 carbon atoms and at least one sulphonic radical, and R_1 denotes a radical of an aliphatic alcohol containing at least 8 carbon atoms.

2,166,144

PREPARATION OF SULPHOCARBOXYLIC ESTERS

Benjamin R. Harris, Chicago, Ill.

No Drawing. Application February 11, 1938, Serial No. 190,136

21 Claims. (Cl. 260—481)

1. The method of converting a salt of a lower molecular weight sulpho-carboxylic acid ester of a higher molecular weight alcohol which possesses relatively poor cold-water solubility into a different salt of said ester which possesses substantially enhanced cold-water solubility, which comprises preparing a relatively hot solution containing several percent of said first mentioned salt of said ester and then passing the same into contact with a base exchange material containing recplaceable cations of said second-mentioned salt whereby an exchange of cations takes place to produce the salt having the enhanced cold-water solubility.

2,166,145

SULPHOCARBOXYLIC ESTERS

Benjamin R. Harris, Chicago, Ill.

No Drawing. Original application November 15, 1937, Serial No. 174,655. Divided and this application September 23, 1938, Serial No. 231,367

20 Claims. (Cl. 260—481)

1. A sulpho-acetate of a glycol wherein the hydrogen of one hydroxyl group of the glycol is substituted by a straight chain higher molecular weight aliphatic radical.

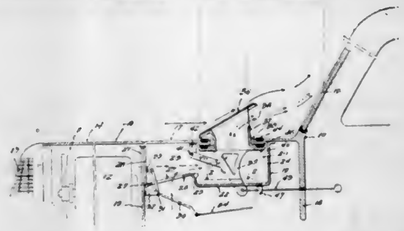
2,166,146

DEFROSTER FOR WINDSHIELDS

Edmund Pray Hayward, Buenos Aires, Argentina

Application June 1, 1937, Serial No. 145,794

2 Claims. (Cl. 20—40.5)



1. In a motor vehicle having an engine compartment, a cowl, and a windshield, a casing arranged interiorly of the cowl having communication with the engine compartment and with the atmosphere through the cowl adjacent the windshield, a swinging ventilator for controlling the ventilation between the casing and the atmosphere, means for operating the ventilator, a depending neck carried by the ventilator extending into the casing for receiving air therefrom and having its rear end open and facing the windshield, and a laterally extending flange formed on the lower end of the neck abutting the inner face of the cowl when the ventilator is in an extreme elevated position.

2,166,147

MOTION PICTURE CAMERA

Paul Heinisch and Karl Schencke, Berlin, Germany, assignors to Askania-Werke A. G., a corporation of Germany

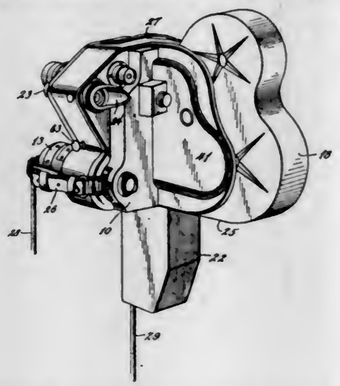
Application December 12, 1936, Serial No. 115,599

In Germany December 13, 1935

4 Claims. (Cl. 88—16.2)

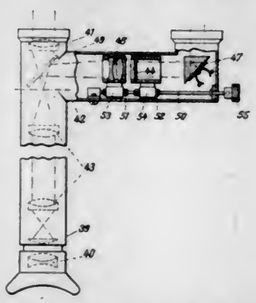
4. In combination with a motion picture camera adapted to be rested on the shoulder of the operator for taking pictures, said camera having a casing, an exposure opening therein, a view finder including an eyepiece, means for securing magazines to said casing, and a plurality of interchangeable magazines of different size having a lower wall which, when assembled with the camera casing, is at a distance below the eyepiece of said view finder which is substantially equal to the distance of the human eye above the shoulder, of a sound recording apparatus; a casing for said apparatus; means for guiding film past the exposure aperture and through said re-

cording apparatus; and means for securing said apparatus casing to said camera casing to extend



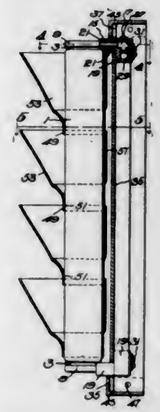
downwardly from the fore part thereof, whereby the rear part of the lower wall of the magazine may be supported on the shoulder of the operator.

2,166,148
PHOTOGRAPHIC CAMERA
Paul Heinisch, Berlin-Zehlendorf, Germany, assignor to Askania-Werke A. G., a corporation of Germany
Application September 27, 1937, Serial No. 166,010
In Germany October 24, 1936
2 Claims. (Cl. 88—1.5)



2. In a photographic camera the combination with a camera casing of a first tube mounted for axial movement relatively to said casing; a second tube surrounding said first tube and mounted for rotary movement relatively to said casing, said second tube having a spiral shaped groove cut therein; a feather on said first tube engaging said groove, whereby upon rotation of said second tube said first tube is axially displaced relatively to said casing; an objective lens mounted in said first tube; a cam on said second tube; a view finder; a reticle for indicating the limits of the photographic field; means for illuminating said reticle; a second objective lens associated with said reticle and mounted to be adjustable relatively thereto; a reflecting semi-transparent surface in the path of light between said two objective lens of the view finder for reflecting into said path the image of said reticle produced in the focal plane of the first view finder objective by said second objective lens, and means operable by said cam for adjusting said reticle and said second objective lens relatively to said semi-transparent reflecting surface.

2,166,149
ILLUMINATING DEVICE
Russell L. Hohl, New York, N. Y.
Application September 2, 1936, Serial No. 99,067
9 Claims. (Cl. 240—73)



1. An illuminating device having, in combination, an elongated lamp, an elongated holder for said lamp, carrying means for engaging said lamp at opposite ends thereof for supporting said lamp in parallel closely spaced relation to said holder, and a plurality of cupped reflectors between said means distributed along said lamp, said reflectors having reduced end supporting portions frictionally engaging said lamp and adapted to enter the open ends of adjacent reflectors, said reflectors at the sides thereof adjacent said holder being shaped to present surfaces closer to the axis of said lamp than at other portions thereof.

2,166,150
CATALYTIC HYDROGENATION OF DINITRILES TO DIAMINES
Benjamin W. Howk, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 15, 1935, Serial No. 49,973
12 Claims. (Cl. 260—583)

1. The process for the production of diamines which comprises catalytically hydrogenating in the liquid phase in the presence of ammonia a dinitrile of a non-hydroxylated dibasic acid, containing from eight to ten carbon atoms in a straight chain, at a temperature within the range of 25° C. to 200° C.

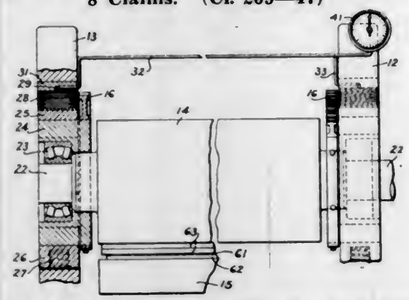
2,166,151
CATALYTIC HYDROGENATION OF ADIPONITRILES TO PRODUCE HEXAMETHYLENE DIAMINES
Benjamin W. Howk, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 23, 1937, Serial No. 127,203
9 Claims. (Cl. 260—583)

1. The process for the production of hexamethylene diamine which comprises catalytically hydrogenating adiponitrile in the liquid phase in the presence of ammonia.

2,166,152
HYDROGENATION OF ALIPHATIC DINITRILES
Benjamin W. Howk, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 30, 1938, Serial No. 227,479
10 Claims. (Cl. 260—583)

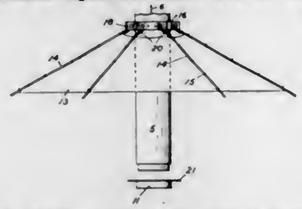
1. The process which comprises catalytically hydrogenating an aliphatic dinitrile having from 6 to 10 carbon atoms in the presence of a cobalt hydrogenation catalyst at a temperature between 50° and 170° C.

2,166,153
MATRIX MAKING MACHINE WITH PRESSURE INDICATOR
William F. Huck, Richmond Hill, N. Y., assignor to R. Hoe & Co., Inc., New York, N. Y., a corporation of New York
Application August 3, 1935, Serial No. 34,520
8 Claims. (Cl. 265—47)



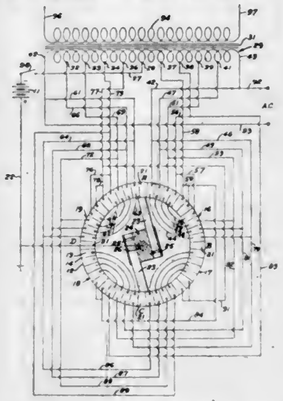
1. In a matrix rolling machine having a rotatable roller cooperating with a reciprocable table to press a matrix therebetween, a roller supporting mechanism including, means to receive upwardly directed pressure from axially spaced apart portions of the roller, means to adjust the pressure at these roller portions, and means operatively connected to each of said pressure receiving means to indicate the pressure received thereby at these roller portions and the pressure imposed upon the matrix by the entire roller.

2,166,154
PARACHUTE FLARE
Sargent P. Huff, Chevy Chase, Md.
Application February 25, 1938, Serial No. 192,625
4 Claims. (Cl. 102—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a flare launchable from aircraft, a case, an illuminating composition in the case, a ring fitting on the lower end of the case, a cover fixed to the ring and normally closing the lower end of the case, a powder charge interposed between the cover and illuminating composition and adapted upon ignition to ignite the illuminating composition and blow the cover and ring from the case, a foldable shade pivotally mounted on the outside of the case and held in folded position by engagement with the ring, and means for moving the shade to extended position when disengaged from the ring.

2,166,155
CURRENT CONVERTING SYSTEM
Fenton F. Hutchinson, San Francisco, Calif., assignor to Kohler & Chase, San Francisco, Calif., a corporation of California
Application August 29, 1938, Serial No. 227,332
6 Claims. (Cl. 175—364)

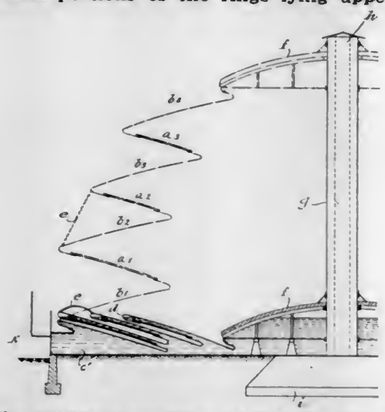


1. A current converting system comprising a direct current source, and means for converting said direct current to alternating current; said means including an electrical circuit comprising said direct current source, a commutator divided into a plurality of segments electrically insulated from one another and electrically connected in pairs, a rotatable brush for successively engaging said segments, an electrical connection between said brush and one side of said direct current source, and a transformer having a mid-point tap electrically connected to the other side of said direct current source and divided into a plurality of sections equal in number on each side of said mid-point tap, electrical connections from one group of said plurality of segments of said commutator joining said segments in pairs to different sections of said transformer on one side of said mid-point tap, and electrical connections from another group of said plurality of segments of said transformer joining said segments in pairs to different sections of said transformer on the other side of said mid-point tap.

2,166,156
DRY GAS HOLDER
Konrad Jagschitz, Mainz, Germany, assignor to Maschinenfabrik Augsburg-Nuernberg A. G., Nuremberg, Germany, a corporation of Germany
Application March 11, 1935, Serial No. 10,533
In Germany March 13, 1934
24 Claims. (Cl. 48—178)

22. A gasholder having a collapsible, accordion-like shell formed at least in part of oppositely inclined sheet-metal rings, at least certain of said rings being of decreasing diameter in the vertical direction, so that in the collapsed condition of the gasholder they have their corresponding diameters horizontally displaced with refer-

ence to each other, a liquid-containing trough for receiving the rings in the collapsed condition of the gasholder, and flexible tubular connections between portions of the rings lying uppermost



in the collapsed condition of the rings to enable gas trapped between successive rings to escape and thus permit the rings to sink into the trough.

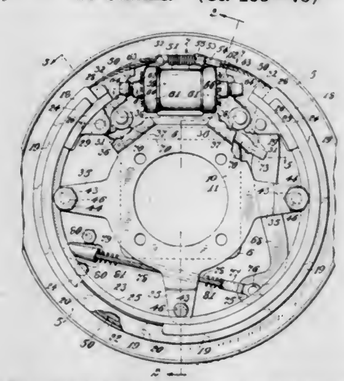
2,166,157

BRAKE

Joseph W. Jones and Frank C. Reilly, New York, N. Y.

Application January 26, 1937, Serial No. 122,342

20 Claims. (Cl. 188—78)



1. In a brake, in combination, an arcuate series of unconnected endwise abutting brake blocks having peripherally outer braking faces, an arcuate guide against which the centrally inner faces of said blocks abut in the released condition of the brake, and means whereby said guide can be adjusted radially so as to compensate for braking wear upon said blocks together with brake-applying means for said blocks and operative independently of said guide.

2,166,158

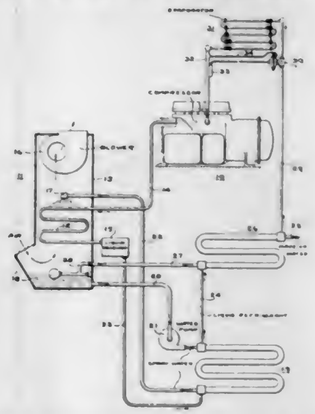
REFRIGERATING APPARATUS

Milton Kalischer, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 21, 1937, Serial No. 164,842

4 Claims. (Cl. 62—115)

1. In refrigerating apparatus, the combination of a compressor, a condenser, a liquid receiver, an expansion device, an evaporator, means for conveying a stream of air over the condenser, means for delivering water to the air cooled surfaces of the condenser and wetting said surfaces sufficiently so that most of the heat from the condenser is dissipated as latent heat of vaporization of water, a heat exchanger having first and second passages for flow of liquid refrigerant



and water in heat exchange relation, means for connecting said first passage between the liquid receiver and the expansion device for flow of liquid refrigerant therethrough, and means for conveying water to said delivery means through said second passage in a definite stream at substantial velocity for cooling the liquid refrigerant flowing through said first passage.

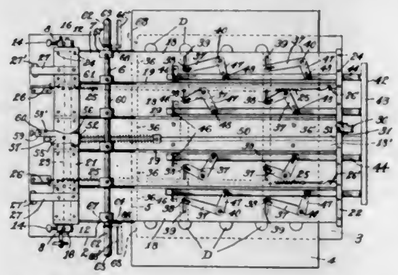
2,166,159

BAKER'S MACHINE FOR CUTTING AND SPREADING THE CUT PORTIONS

Paul Kellner, New York, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey

Application September 3, 1937, Serial No. 162,262

15 Claims. (Cl. 107—22)



1. A machine of the class specified, comprising a lower supporting frame, of platform formation, and an upper frame carried by said lower frame arranged to have movement to and away from the platform, for the introduction between said frames of a work holding member, and means to normally hold the upper frame in the elevated position, and means to lock the upper frame down on the work, a cutting roller, having a normal inactive position on the lower frame at the rearward end thereof, adapted to be rolled forward and back, across the work on said work holder to sever the work into sections, means carried by the upper frame to guide the cutter roller in its movement forward and back, and means carried by said frame to shift the severed sections to spread the same transversely of the cuts, means to actuate the shifting means, and means to lock the shifting means in the spread position, and means connected with the means to actuate the shifting means, to unlock the upper frame at the end of the spreading and shifting motion, whereby the upper frame may lift, by said elevating means, and means to unlock the shifting means from their spread position, at the end of the lifting motion of the upper frame.

2,166,160

TREATMENT OF HYDROCARBON OILS

Edward P. King, Lansdowne, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application April 10, 1935, Serial No. 15,575

4 Claims. (Cl. 196—13)

1. The method of separating a viscous hydrocarbon oil into fractions having different physical properties, which comprises admixing said hydrocarbon oil with from about 2 to about 9 parts by weight of a solvent, bringing the admixture to a temperature and pressure above the critical temperature and pressure of said solvent, the relation of said temperature to said pressure being so controlled as to effect formation of a vapor phase comprising solvent and lower boiling components of said viscous oil dissolved therein, and a liquid phase comprising higher boiling components of said viscous oil, separating the vapor phase from the liquid phase so formed at a temperature and pressure above the critical temperature and pressure of said solvent, and removing solvent from said phases to produce oil fractions differing in physical properties.

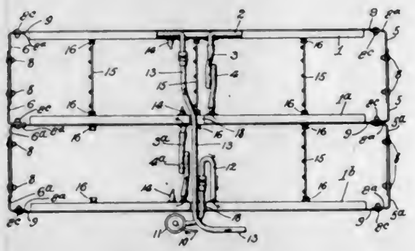
2,166,161

COOLING APPARATUS

Herman W. Kleist, Chicago, Ill., assignor to Dole Refrigerating Company, Chicago, Ill., a corporation of Illinois

Application February 27, 1937, Serial No. 128,052

7 Claims. (Cl. 62—126)



1. A cooling cabinet conversion unit comprising a plurality of vertically extending plates, each made up of a pair of sheets of metal with a space between them, a pipe in the space between each pair of sheets of metal, formed into a coil located in said space, refrigerant conducting pipes connecting the coils of said plurality of plates together so that the refrigerant is passed successively through the coils in said plurality of plates, and adjusting means for adjustably connecting said plates together.

2,166,162

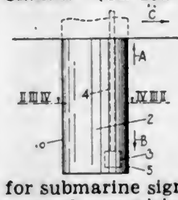
PROJECTING MEANS FOR SUBMARINE SIGNALING APPARATUS

Willy Kunze, Bremen, Germany, assignor to Atlas Werke Aktiengesellschaft, Bremen, Germany

Application June 15, 1936, Serial No. 85,229

In Germany June 17, 1935

4 Claims. (Cl. 181—0.5)



1. A device for submarine signaling adapted to project from a vessel comprising a shaft having a hollow section and being streamlined with the forward portion forming a thin wall and the rear portion a thick wall, and sound-signaling means positioned within said hollow section near the thin wall thereof.

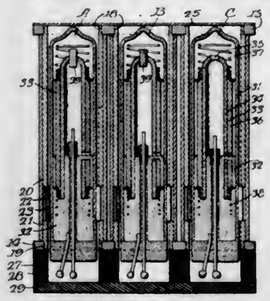
2,166,163

ELECTROMAGNETIC RELAY

Carl H. Larson, Elkhart, Ind.

Application July 21, 1936, Serial No. 91,725

14 Claims. (Cl. 200—97)



1. In a relay, means for producing a magnetic flux of given characteristics, a pair of switches associated with the means and operated thereby, one of the switches comprising a switch envelope containing a quantity of mercury adapted under certain conditions to provide an electrical path between spaced electrodes in the envelope, means controlled by the flux producing means for manipulating the mercury to effect a change in the electrical circuit through the electrodes, a time delay element in the envelope adapted to provide a time interval between the actuating of the mercury manipulating means and the changing of the condition of the circuit through the electrodes, the other switch also being actuated by the flux producing means and having a time characteristic different from the first mentioned switch.

2,166,164

RESPIRATOR

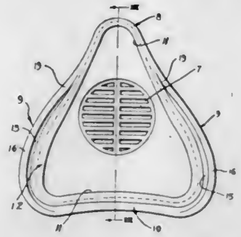
William H. Lehmberg, Sturbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts

Application April 1, 1937, Serial No. 134,318

3 Claims. (Cl. 128—146)

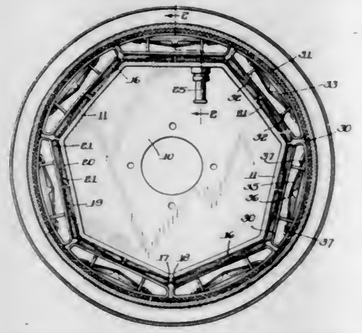
1. A face piece comprising a cup-like member shaped to fit over the nose and mouth of an individual and having a flexible face engaging por-

tion adapted to engage the nose, chin and sides of the face about the mouth, said flexible face engaging portion throughout the chin and nose engaging portions thereof having one face contact-



ing edge and being provided throughout the sides intermediate said chin and nose engaging portions with two face contacting edge portions, one of which, has edge contact, and the other, side surface contact with the face.

2,166,165
FLUID OPERATED PRESSURE TRANSMISSION DEVICE
Bert A. Linderman, Detroit, Mich.
Application July 5, 1935, Serial No. 29,833
12 Claims. (Cl. 137—157)

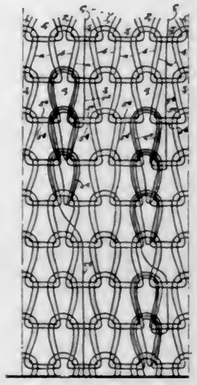


1. A fluid pressure operated power transmitting device comprising a pair of diaphragm plate members joined together at their edges and folded so as to form a plurality of communicating sections in longitudinal continuation, each of said sections comprising a plurality of superposed communicating expansible chambers.

7. In a fluid pressure operated power transmitting device, an operating diaphragm formed from metal plates, an abutment member having a surface in engagement with one of said plates, said abutment member being formed of hardened plastic material whereby said surface will be shaped accurately to conform to irregularities in the metal surface of said plate.

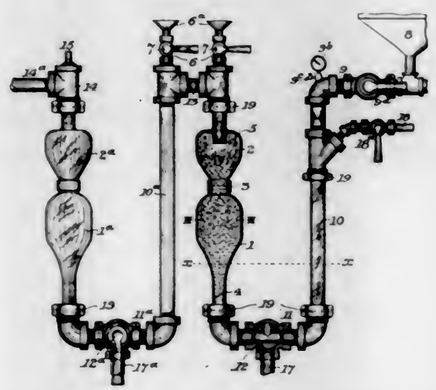
2,166,166
KNITTED FABRIC
Walter Larkin, Norristown, Pa., assignor to Fidelity Machine Company, Wilmington, Del., a corporation of Delaware
Application May 26, 1937, Serial No. 144,952
7 Claims. (Cl. 66—170)

1. A knitted fabric comprising a pair of main knitting threads formed into stitch wales and courses, and wrap threads face-knit on predetermined wales at predetermined courses with por-



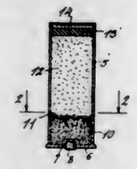
tions floating walewise across predetermined courses and buried in the fabric between said main knitting threads.

2,166,167
APPARATUS FOR SEPARATING PRECIOUS METALS FROM THEIR ORES
John Lewis Luckenbach, Jackson Heights, N. Y.
Application November 18, 1936, Serial No. 111,467
1 Claim. (Cl. 209—183)



In a mercury amalgamator, the combination of a pair of directly communicating expansion chambers in vertical alignment and arranged to receive separate bodies of mercury and gold-bearing material in suspension and activation therewith; said chambers increasing in area from bottom to top and having a contracted passage directly connecting the same, a valved inlet above the upper chamber for the introduction of mercury, means for delivering combined bodies of liquid and pulpy masses of gold-bearing material in controlled quantities to the lowermost of said chambers and simultaneously applying hydrostatic or other pressure to raise the gold-bearing material through said mercury; such pressure overcoming the inertia of the mercury and elevating the gold-bearing material through the same and effecting agitation thereof; said upper chamber having its discharge outlet depending into the same to assist in retaining the mercury and its precious metal content during agitation, means for supplying a charge of water under pressure to and through both chambers for passage through the mercury-amalgamated metal contained therein to clear said chambers and the passages leading to and from the same of non-amalgamated residue after the desired amalgamation of the gold-bearing content of a charge has been effected, a loop or bend in communication with the lower expansion chamber, and a three-way valve disposed in said loop; such valve when in one position providing for the passage of gold-bearing material and water to the several expansion chambers and when in another position permitting discharge of the mercury-amalgamated metal.

2,166,168
POISON MIXTURE FOR TRAP GUN CARTRIDGES
Ethel P. Marlman, Las Animas, Colo., assignor to The Humane Fur Getter, Inc., a corporation of Colorado
Application January 24, 1938, Serial No. 186,490
5 Claims. (Cl. 167—46)



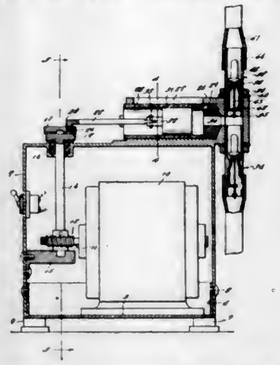
1. A poison mixture for use in cartridges for trap guns of the type that discharge the poison into the mouth of an animal to be killed, comprising a quick acting pulverulent poison, an insoluble non-hygroscopic powder mixed with the poison to prevent caking, and pepper that will cause an animal to stop and attempt to paw the mixture from its mouth.

5. A poison mixture for use in cartridges employed with trap guns of the type which discharge poison into the mouth of the animal to be killed, consisting of the following materials in substantially the proportions given

	Parts
Alkali cyanide	17
Magnesium oxide	1
Capsicum	5

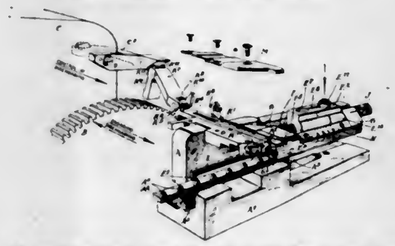
2,166,169
TRANSFERENCE APPARATUS
Sterling Talmage Martin, Charleston, W. Va.
Application August 24, 1937, Serial No. 160,698
2 Claims. (Cl. 103—153)

1. A fluid transference machine comprising a supporting structure, a horizontally arranged cylinder on the top of the said structure and having an opening in its top, the outer end of the cylinder extending beyond the supporting structure and said end having a vertically arranged bore therein and a port connecting the central part of the bore with the interior of the cylinder, a resilient member in the outer end of the bore of the cylinder and having a port therein registering with the first-mentioned port, a shell of transparent material in the cylinder having one end abutting the resilient member, a piston in the shell, means for reciprocating the piston, upper and lower tubular members verti-



cally arranged and connected with the outer end of the cylinder and in communication with the bore in said outer end of the cylinder and an upwardly opening valve member in each of said tubular members.

2,166,170
SLUG-CASTING MACHINE
Richard R. Mead, Queens Village, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application September 18, 1936, Serial No. 101,405
Renewed November 10, 1938
32 Claims. (Cl. 199—50)

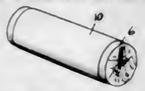


1. A slug casting machine including, in combination, a pair of line clamping jaws, one movable toward and from the other to quad out a short line of matrices and expansible spacebands positioned between them, a banking element, and a plurality of spaced stops associated with said jaw and adapted selectively to cooperate with said banking element and arrest the jaw in its outward movement in different predetermined line justifying positions, said stops being selectable each by lines varying in length within a range allowing for normal expansion of the spacebands in the line.

2,166,171
PACKAGE AND METHOD OF FORMING THE SAME
Douglas M. McBean, Canajoharie, N. Y., assignor to Beech-Nut Packing Company, Canajoharie, N. Y., a corporation of New York
Application April 13, 1934, Serial No. 720,410
9 Claims. (Cl. 229—51)

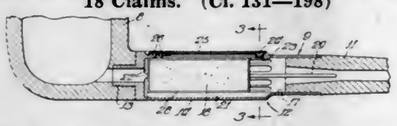
1. In a package comprising an article of cylindrical form having a plurality of wrappings wound about the article, the improvement which

comprises a tape extending longitudinally along the article and within the wrappings and having one end accessible at one end of the package and



its other end anchored to the wrapping at the other end of the package, said tape serving as an opening means for the package.

2,166,172
SMOKING PIPE
Arthur B. Modine, Racine, Wis.
Application December 30, 1936, Serial No. 118,238
18 Claims. (Cl. 131—198)

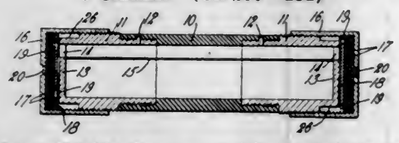


15. In a smoking article having a stem, tobacco-receiving portion and a wall portion having a perforation formed therein communicating with the tobocco-receiving portion and stem, and a thermostatically controlled valve associated with said perforation and adapted to be energized by heat transmitted thereto from the tobacco-receiving portion during the smoking of the pipe to cause the valve to uncover the opening to the atmosphere for permitting the entry of air to comingle with the smoke passing from the tobacco-receiving portion to the stem.

2,166,173
METHOD OF DRAWING METALS
Harley A. Montgomery, Detroit, Mich.
No Drawing. Application June 23, 1937, Serial No. 149,946
5 Claims. (Cl. 205—8)

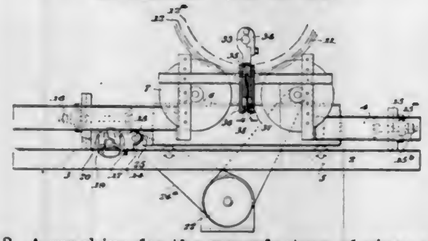
1. A method of cold drawing metal which comprises coating the metal with a solution of sulphurized asphaltum, evaporating the solvent and drawing the metal while thus coated.

2,166,174
FUSE
Louis R. Popp, Buffalo, N. Y., assignor to Pierce Renewable Fuses, Inc., Buffalo, N. Y.
Application April 26, 1934, Serial No. 722,528
5 Claims. (Cl. 200—131)



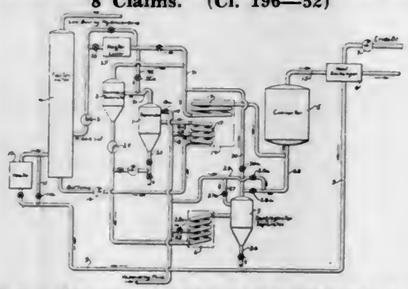
1. A refillable fuse comprising a tubular shell of insulating material having tubular metallic end members attached to and extending from the ends of said shell and forming therewith a tubular casing, a cap adjustable on each metallic end member for clamping thereto, the end of a fuse link that may connect said end members, one of said caps being cup-shaped, a disk within said one cap and disposed approximately parallel to but spaced slightly from the end of said one cap, a plurality of layers of metal screen disposed face to face within said one cap between the inner end face thereof and said disk, with said disk abutting flat against said layers and confining them flat against the inner end face of said one cap, said disk and said one cap being apertured, one near the periphery of the screen layers and the other spaced substantially therefrom in a direction approximately parallel to the planes of the layers, a distance greater than the combined thickness of the layers, whereby gases generated in said casing when the fuse link therein is blown, may escape therefrom through said one cap by passing through said disk and said one cap and travelling a substantial distance through said layers in a direction approximately parallel to the planes of those layers, the periphery of said disk being engageable with the inner periphery of said one cap, by which the disk is held in position in its cap when said one cap is removed from said casing.

2,166,175
CONSTRUCTION OF PIPES AND THE LIKE OF CONCRETE OR OTHER CEMENTITIOUS MATERIAL
William Alfred Porter, Red Hill, Brisbane, Queensland, Australia
Application July 16, 1937, Serial No. 154,082
In Australia July 16, 1936
11 Claims. (Cl. 25—30)



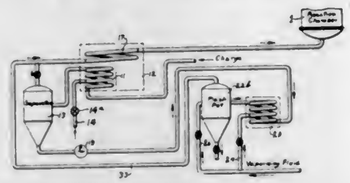
2. A machine for the manufacture of pipes and like formations from cementitious material, comprising a carriage mounted on a foundation for displacement by reciprocations in the horizontal plane, a mould rotatably mounted transversely on said carriage, means for causing continuous reciprocation displacements of said carriage in the horizontal plane and for suddenly terminating each such reciprocation, a removable compacting roller extending through said mould and mounted on said carriage, and means for applying through said roller a positive radial pressure on the material in the mould.

2,166,176
PREPARATION OF CHARGE
Albert G. Peterkin, Bryn Mawr, Pa., assignor to Houdry Process Corporation, Dover, Del., a corporation of Delaware
Application February 21, 1936, Serial No. 65,013
8 Claims. (Cl. 196—52)



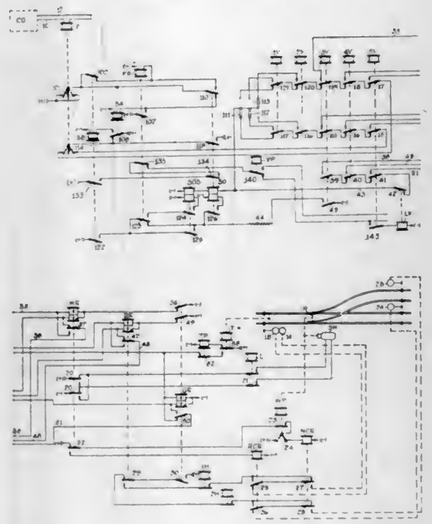
5. In the preparation of a substantially uncracked hydrocarbon charge for a conversion operation from a bottoms or residual hydrocarbon fraction, said bottoms fraction being made up of components too high boiling to be capable of being vaporized upon heating alone without substantial thermal cracking thereof, the steps of process which comprise heating and substantially vaporizing said bottoms fraction with the aid of a vaporizing fluid and without effecting substantial conversion of said fraction into lower boiling hydrocarbons, passing said heated fraction together with said admixed vaporizing fluid into a separating zone, separating unvaporized liquids from vapors in said separating zone, withdrawing liquids from said separating zone, passing a stream of vapors from said zone into a partial condensing zone, introducing into said partial condensing zone a stream of hydrocarbon fluid having a boiling range lower than that of said vapors but higher than that of gasoline, in controlled amount and at controlled temperature below its average boiling point, to effect a partial condensation of the said vapors introduced thereinto from said separating zone so as to remove higher boiling components which, if left in the vapors, would cause condensation and coke formation in the cracking or reaction zone defined below, withdrawing a stream of condensate from said partial condensing zone, subjecting said condensate to a mild cracking operation to effect a viscosity breaking thereof, separating heavy, high-boiling components as liquids from the remaining vaporous products of such viscosity breaking operation, and adjusting the last-mentioned vaporous products and the stream of vapors from said partial condensing zone to a temperature suitable for catalytic conversion thereof, then passing said vaporous products and said stream of vapors together through a confined reaction zone containing a catalytic mass and maintained under conditions such as to effect a conversion of the hydrocarbons charged thereto into lower boiling hydrocarbon products, and withdrawing a stream of fluid products of reaction from said reaction zone.

2,166,177
PREPARATION OF HYDROCARBONS FOR CONVERSION
Albert G. Peterkin, Bryn Mawr, Pa., assignor to Houdry Process Corporation, Dover, Del., a corporation of Delaware
Application February 27, 1936, Serial No. 65,955
9 Claims. (Cl. 196—49)



7. In the preparation of a vaporous charge for a conversion operation from composite hydrocarbon material of wide boiling range, composed predominantly of hydrocarbons above the gasoline boiling range and containing components which cannot be directly vaporized by heat alone without substantial thermal cracking, the steps of process which comprise heating and vaporizing said material to substantial extent with the aid of a vaporizing fluid, separating a liquid fraction, comprising the heaviest, highest boiling components thereof, from the remaining vapors; superheating said remaining vapors; passing said liquid fraction in a confined stream through a heated zone under conditions so as to effect a mild cracking or viscosity breaking thereof, continuously passing said confined stream from said heated zone to a liquid-vapor separating zone, therein continuously separating the heaviest, highest boiling liquid components from the lower boiling hydrocarbon vapors; effecting a superheating of the last-mentioned vapors by the addition of steam and passing them in admixture with the aforesaid remaining vapors which have been superheated into a conversion zone containing a cracking catalyst and maintained under conditions so as to produce lower boiling hydrocarbons including gasoline from higher boiling hydrocarbons.

2,166,178
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
Neil D. Preston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application December 31, 1937, Serial No. 182,715
21 Claims. (Cl. 246—3)

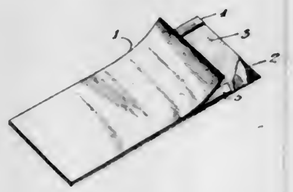


1. In a centralized traffic controlling system for railroads, field equipment for receiving control codes consisting of time spaced code elements each variable in character comprising, step-by-step means operating to a new step position for each code element irrespective of its character, a plurality of control devices each rendered responsive in turn by the operation of said step-by-step means to the distinctive character of the corresponding code elements, and means included wholly within said field equipment effective upon any step of said step-by-step means for preventing further operation of said step-by-step means whenever a control device for that step fails to assume a condition in conformity with the code element transmitted for that step, whereby failure of any control device to respond properly to its code element stops further operation of the step-by-step means and prevents the reception of any subsequently transmitted controls.

2,166,179
FILM MAINTAINING ELECTROLYTE
Samuel Ruben, New Rochelle, N. Y.
No Drawing. Application March 14, 1935, Serial No. 11,076
14 Claims. (Cl. 175—315)

1. An electrolytic condenser containing an electrolyte having a film-maintaining component comprising the reaction product of rosin and an alkali selected from the group consisting of sodium, potassium and ammonium hydroxide.

2,166,180
ELECTROLYTIC CONDENSER
Samuel Ruben, New Rochelle, N. Y.
Application March 9, 1935, Serial No. 10,288
13 Claims. (Cl. 175—315)

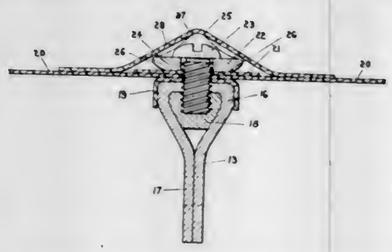


1. An electrolyte for electrolytic condensers comprising a conductive shellac composition.

2,166,181
COLOR PHOTOGRAPHY
Paul L. Salzberg, Wilmington, Del., and Clayton F. A. White, Parlin, N. J., assignors to Du Pont Film Manufacturing Corporation, New York N. Y., a corporation of Delaware
No Drawing. Application September 21, 1937, Serial No. 164,984
8 Claims. (Cl. 95—6)

1. A photographic emulsion comprising an alkoxy monohydric phenol in which the alkoxy group contains at least eight carbon atoms, and in which the para position to phenolic hydroxyl is unoccupied.

2,166,182
LOAD STRIP FOR AIRPLANE WING AND CONTROL SURFACE COVERS
Karl Schmidt, United States Navy
Application March 9, 1938, Serial No. 194,885
6 Claims. (Cl. 244—132)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

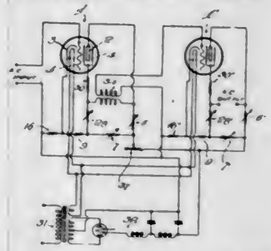


1. Airplane wing construction comprising a capstrip having a flat outer surface, a covering and a load-strip of substantially triangular cross-section, the base portion thereof being secured to the flat surface of said capstrip to clamp the covering therebetween.

2,166,183
HYDROGENATION OF ALIPHATIC DINITRILES
Frank K. Signaigo, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 24, 1938, Serial No. 231,505
24 Claims. (Cl. 260—583)

1. The process for the preparation of a diprimary diamino alkane which comprises catalytically hydrogenating a dicyanoalkane having from 3 to 20 carbon atoms in the presence of a highly selectively primary amine-forming cobalt hydrogenation catalyst at a temperature between 50 and 170° C.

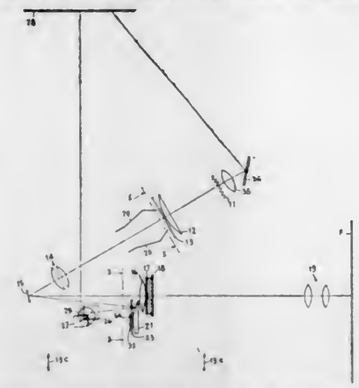
2,166,184
BALANCED ELECTRON TUBE AMPLIFIER
Walter Soller, Tucson, Ariz., assignor of one-half to William H. Woodin, Jr., Tucson, Ariz.
Original application September 9, 1933, Serial No. 688,833. Divided and this application June 23, 1934, Serial No. 732,170
16 Claims. (Cl. 179—171)



5. An electron tube amplification system comprising an electron tube device having at least three electrodes, at least two of said electrodes being cold electrodes, a source of potential for energizing all said electrodes, means for deriving a potential drop proportional to the current through one of said cold electrodes, means for deriving a potential drop proportional to the current through another of said cold electrodes, and means for deriving a potential drop from said source of potential, said means being connected in open series relation and relatively so proportioned and arranged as to produce zero potential difference across the terminals of said series relation, said terminals constituting output terminals for said amplifier.

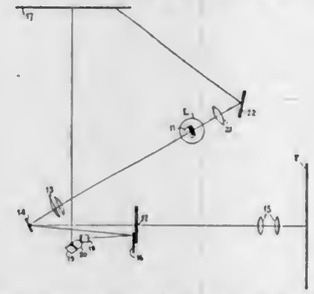
2,166,185
MONITORING MEANS FOR SOUND RECORDERS
John David Stack, Los Angeles, Calif., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif., a corporation of New York
Application December 4, 1937, Serial No. 178,097
7 Claims. (Cl. 179—100.3)

1. In a sound recorder having means for projecting a portion of a sound modulated oscillating light beam upon a monitoring screen to produce visual indications of the oscillations of said beam, a mask having an aperture for shaping said projected light, a light filter arranged over said aperture adapted to change the color of the visual



indications upon said screen at a predetermined level of sound modulation.

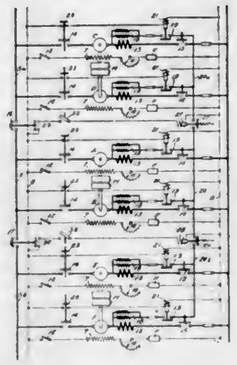
2,166,186
EXCITER LIGHT FOR SOUND RECORDERS
John David Stack, Los Angeles, Calif., assignor to Twentieth Century-Fox Film Corporation, Los Angeles, Calif., a corporation of New York
Application December 4, 1937, Serial No. 178,098
6 Claims. (Cl. 179—100.3)



1. In a sound recorder having a monitoring screen for visually indicating sound modulations; an exciter lamp having a filament therein, and means for focusing an image of said filament onto said monitoring screen.

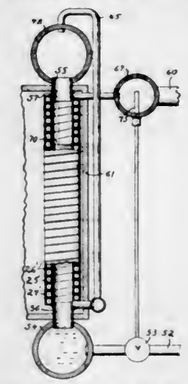
2,166,187
ELECTRICAL POWER SYSTEM
Paul M. Stivender, West Allis, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application December 26, 1933, Serial No. 703,927
Renewed July 21, 1938
18 Claims. (Cl. 171—312)

1. In combination, an electrical power circuit, more than two direct current dynamo-electric machines, switching means for selectively connecting any two or more of said machines in parallel in electrical energy transfer relation with said power circuit, field energizing means for each of said machines, means for automatically regulating the effective field energization of each of said machines so as to promote attainment of a substantially constant proportional distribution of the loads on any two or more of the parallel connected machines, said regulating means for each of said machines comprising regulating field windings on each machine connected to the armature circuit thereof, means for establishing an equalizing connection through said regulating field windings between like terminals of said machines, the current path through said regulating field windings being independent of the normal path of energy transfer between said machines and said power circuit, and said regulating field winding of each machine carrying current de-



pendent in amount and direction of flow upon the difference of potential at like terminals of the parallel connected machines and effective to produce a regulating effect dependent upon the unbalance of load on the particular machine, and means for rendering the regulating means of each machine effective automatically on the connection of said machine in parallel with another of said machines.

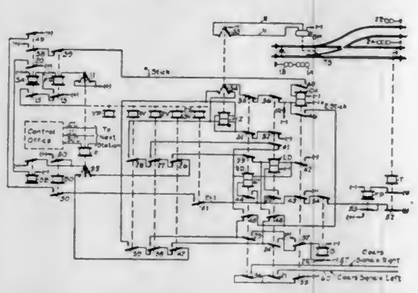
2,166,188
FLASH BOILER
Charles S. Turner, Detroit, Mich.
Application August 29, 1935, Serial No. 38,436
12 Claims. (Cl. 122—33)



10. Means for heating fluids, comprising in combination with a source of heat, a substantially helically coiled tubular jacketing element, continuous means sealing the space between the convolutions thereof to provide an independent central direct passage therethrough, said element being exposed to direct radiation from said source of heat only upon one side, whereby a regulating fluid flow through said tubular element passes alternately and repeatedly from the exposed side

to the rear and vice versa, and may equalize the delivery of heat to all portions of another fluid within the central passage by surrendering heat to the portion thereof within the same but nearer the rear.

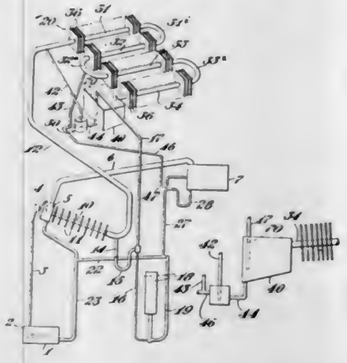
2,166,189
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
Robert F. Wells, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application May 27, 1937, Serial No. 145,070
16 Claims. (Cl. 246—3)



1. In a remote control system of the multiple impulse or code type including an instrumentality for registering controls transmitted to govern the operation of variable position devices comprising, line wires for transmitting a series of code conditions each controllable in character, step-by-step means operable to take one step for each code condition, a first neutral control relay having a pick up circuit energized or left deenergized dependent on the character of a code condition, a second neutral control relay having a pick up circuit energized or left deenergized dependent on the character of another code condition, a checking relay acting if deenergized to break said pick-up circuits, stick circuits controlled by said checking relay for maintaining said control relays stuck up when picked up, means for picking up said checking relay, a first stick circuit for said checking relay closed while said step-by-step means is being operated for each step, and a second stick circuit for said checking relay closed after each step only if said control relay for that step assumes a condition in proper correspondence with the character of the corresponding code condition transmitted.

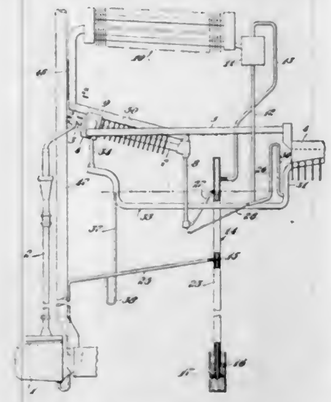
2,166,190
CONDENSER ARRANGEMENT
Lyman F. Whitney, Cambridge, Mass., assignor, by mesne assignments, to Stator Corporation, a corporation of Rhode Island
Application October 29, 1937, Serial No. 171,647
15 Claims. (Cl. 62—115)

6. A system of the class described employing the vapor of a heavy propellant which pumps refrigerant vapor from a cooler to a condenser, said system having means to condense the major portion of the propellant while supplying the pumped refrigerant vapor with stray propellant particles to the condenser, said condenser comprising a duct having a plurality of similarly inclined sections, the first section having an inlet at its lower end to receive the pumped refrigerant vapor and stray propellant particles, the successive sections of the condenser being substantially disposed in a common inclined plane, drains communicating with the lower end of each of said sections to receive condensate therefrom, a common receiving pipe to which the condensate is directed from said drains, a liquid-containing trap communi-



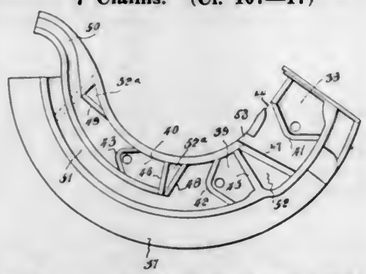
cating with the drains and pipe, said trap containing a body of the heavy propellant liquid and being arranged to permit the flow of condensate from the drains to the pipe, but preventing the flow of vapor directly from one drain to another drain.

2,166,191
REFRIGERATING SYSTEM
William E. Whitney, Cambridge, Mass., assignor, by mesne assignments, to Stator Corporation, a corporation of Rhode Island
Application October 27, 1937, Serial No. 171,301
7 Claims. (Cl. 62—115)



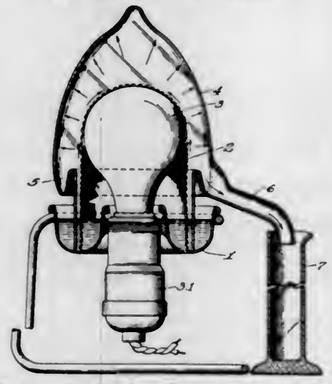
1. Refrigerating apparatus of the class described comprising a propellant circuit and a refrigerant circuit including a condenser and a cooler, said circuits having a part in common where a stream of propellant vapor pumps refrigerant vapor from the cooler to the condenser, said part being provided with cooling means to cause the condensation of propellant, the refrigerant circuit including a duct extending from said part to the condenser, said duct being arranged in juxtaposition to a warm part of the system and including a plurality of internal protuberances.

2,166,192
TABLET MAKING MACHINE
Charles H. Whittemore, Elizabeth, N. J.
Application April 14, 1936, Serial No. 74,254
7 Claims. (Cl. 107—17)



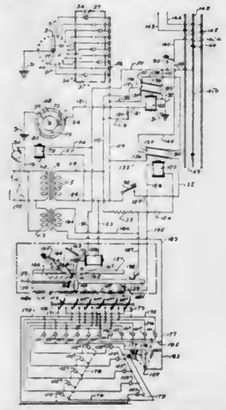
7. In a multiple-layer compressed tablet-making machine, in combination, a rotary die-plate provided with a multiplicity of annular powder receiving openings extending through said plate; a plurality of feed bins; a series of successive feed-rack compartments resting upon the rotary die-plate, each such feed-rack compartment being subdivided by guttering walls adapted to guide the material for forming the tablets over the die openings and by diagonally disposed deflecting walls for discharging and guiding excess materials from each successive compartment to a different point where each such material may be collected unmixed with any of the other materials from each of the successive compartments; a cam track adapted to engage slidably a procession of plungers engaged within the die openings of the rotary die-plate and moving therewith, and to impart to them a series of cycles of successively graduated reciprocating upward and downward motions, each successive cycle of such plunger movements being adapted to give to said plungers differently graduated amplitude of motion; and provided, in combination and cooperation therewith, with means for controlling the successive upward and downward movements of said plungers to permit the dies to receive successively the predetermined measured quantities of each successive ingredient.

2,166,193
OIL REFINING PROCESS
Charles W. Woodworth, Berkeley, Calif.
Application August 16, 1937, Serial No. 159,359
10 Claims. (Cl. 196—1)



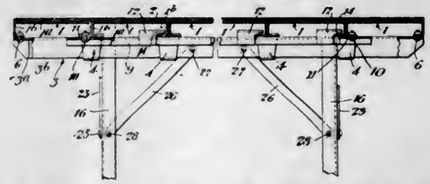
8. The method of refining oil which consists in applying heat to an oil film surface sufficient to produce emission of globules from the oil film surface, which globules spring away from the oil surface, and capturing and collecting said globules as they spring from the oil surface.

2,166,194
CONTROL SYSTEM AND APPARATUS
Paul Roman, White Plains, and Robert Baluta, New York, N. Y.; said Baluta assignor of two-tenths to said Roman
Application February 26, 1937, Serial No. 127,868
17 Claims. (Cl. 246—3)



17. In a device of the character described, in combination, an electrically operable miniature mechanical device, means to successively actuate said miniature mechanical device, means to control said actuating means whereby said miniature mechanical device may perform a series of operations having a predetermined relationship, means connected to said control means and controllable thereby to successively identify said operations, means to pre-condition said control means to determine said predetermined relationship, and means connected to said control means and operable thereby to indicate said relationship throughout said series.

2,166,195
TABLE CONSTRUCTION
Philip Rosenberg and Emanuel Mically, New York, N. Y., assignors to Universal Fixture Corporation, New York, N. Y., a corporation of New York
Application November 13, 1937, Serial No. 174,324
8 Claims. (Cl. 311—4)



3. A table top assembly comprising a plurality of straight, parallel top-forming members, and retaining means connected to said members to hold them against transverse displacement relatively to each other and permit them to shift endwise into and out of operative connection with the retaining means; and a locking bar disposed transversely of said members and borne

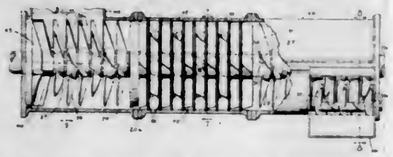
by said assembly to shift endwise and having locking means engageable with said members by endwise shift of the bar to lock said members against endwise displacement relatively to each other.

2,166,196
TABLE CONSTRUCTION
Philip Rosenberg, New York, N. Y., assignor to Universal Fixture Corporation, New York, N. Y., a corporation of New York
Application June 17, 1938, Serial No. 214,224
9 Claims. (Cl. 311—4)



9. A table top structure comprising a pair of edgewise opposed flat top sections in a common plane and with a slot between their opposed edges, a cover sheet secured to the upper surface of each section and terminating substantially at said slot, said sheets having countersunk margins along opposite sides of the slot, a sheet clamping and filling bar seated upon said countersunk seat margins at opposite sides of the slot and flush with the upper surface of the sheets, and anchoring means spaced along the under side of said bar and extending downward through said slot to hold the bar pressed downward upon said sheet margins.

2,166,197
WORKING AND KNEADING APPARATUS
Jacob Schaub, Westfield, N. J., assignor to The Best Foods, Inc., New York, N. Y., a corporation of Delaware
Application December 6, 1934, Serial No. 756,236
19 Claims. (Cl. 31—35)

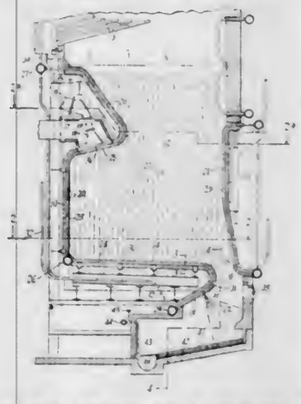


8. An apparatus of the type described, comprising a casing having a cylindrical inner surface, a shaft adapted to rotate in said casing and having fixed thereon a plurality of propellers having surfaces adapted to advance the material in the casing and a plurality of teeth fixed to said casing and adapted to resist rotation of said material with the propellers, a second group of propellers, plates having openings therein positioned between the propellers of the second group, and a third group of propellers beyond said plates, said casing having an outlet in the side thereof opposite said third group of propellers.

2,166,198
CHEMICAL COMPOUNDS
Wilfred Archibald Sexton, Blackley, Manchester, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application November 11, 1935, Serial No. 49,321. In Great Britain November 14, 1934
5 Claims. (Cl. 260—309)

1. A process which comprises reacting one of a group consisting of an aroylacetic ester and an alkoylacetic ester with an ortho-arylene diamine in an inert solvent in the presence of an alkaline catalyst until a benziminazole derivative is produced which is characterized by solubility in dilute caustic alkali, by ability to couple with diazo salts and by the presence of one of the group consisting of the radicals —CH_2—CO—alkyl and —CH_2—CO—aryl.

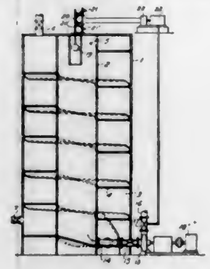
2,166,199
FURNACE CONSTRUCTION AND OPERATION
Guy T. Shoemaker, Kansas City, Mo., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application December 5, 1936, Serial No. 114,362
18 Claims. (Cl. 122—235)



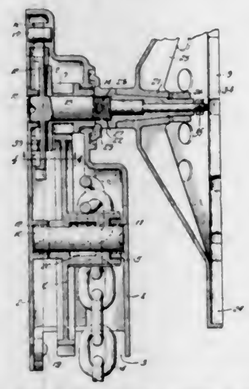
8. A furnace having walls defining a furnace chamber, a continuous floor extending in a substantially horizontal plane over a major portion of the bottom of said furnace chamber and constructed to receive and support a layer of separated slag thereon, said floor terminating at one end at a slag discharge aperture elongated transversely of said floor, means for burning finely divided solid fuel in suspension above said floor at a heat release rate proportioned relative to the furnace chamber volume and heat absorption area to effect a furnace temperature causing ash separating from the burning fuel to collect on said floor in a molten condition, means for fluid cooling said floor, a slag pit below said aperture and having a floor arranged to receive slag dropping into said slag pit, and means for maintaining at least the slag-receiving portion of said slag pit floor wet with a cooling liquid.

2,166,200
APPARATUS FOR TREATING WOOD PULP OR THE LIKE WITH CHEMICAL REAGENTS
Carl Busch Thorne, Hawkesbury, Ontario, Canada
Application May 12, 1938, Serial No. 207,487
4 Claims. (Cl. 259—95)

1. Apparatus for treating paper pulp and the like with reagents which comprises a cylindroidal tank, a pipe vertically and concentrically located within the tank and forming an annular chamber therein, a confined helical channel within the chamber and extending around said pipe upwardly from the bottom of the chamber to provide a long reaction zone for said pulp and reagent, a feed inlet for said channel adjacent the bottom of the chamber, a discharge outlet for said channel communicating with said pipe adjacent its upper end and a discharge outlet for said pipe adjacent the lower end of said chamber.



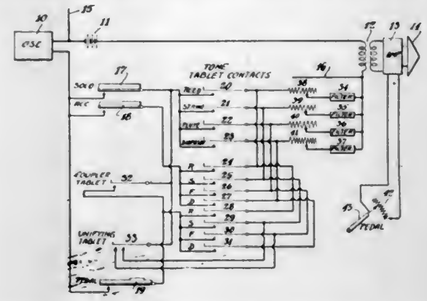
2,166,201
NONSPIN WHEEL BRAKE
Edwin E. Van Cleave, Chicago, Ill.
Application June 12, 1937, Serial No. 147,827
8 Claims. (Cl. 74—505)



1. In a railway brake winding mechanism, a supporting structure having bearings therein for a winding mechanism, a brake rigging control chain, winding mechanism for said chain supported in said bearings and including a ratchet wheel and shaft rigid therewith, a handwheel mounted on said shaft and having a threaded connection therewith whereby the wheel may be turned on the shaft, a pinion geared to said winding mechanism and loosely mounted on the shaft between the ratchet wheel and the hub of the handwheel and a friction element acting between said pinion and ratchet wheel to control the relative rotation thereof through the screw connection between said handwheel and shaft.

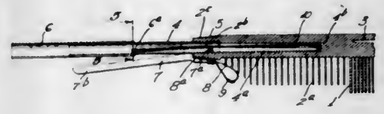
2,166,202
ELECTRIC ORGAN
Harry F. Waters, New York, N. Y., assignor of fifteen per cent to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application December 30, 1936, Serial No. 118,321
4 Claims. (Cl. 84—1)

1. In an electric sound producing system, a sound record element carrying a record path of a sound wave of uniform pitch, means for scanning said record path and electrically producing sound therefrom and a second means for scanning said same record path at a different phase from said first scanning means but at the same scanning speed and means for electrically combining the



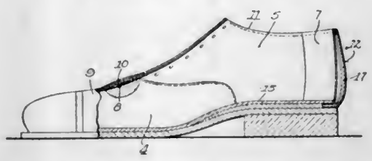
resulting energy whereby a frequency is reproduced different from that produced by a single scanning means.

2,166,203
HAIR DRESSING AND CURLING TOOL
Oscar C. Williams, San Diego, Calif.
Application December 11, 1937, Serial No. 179,313
16 Claims. (Cl. 132—35)



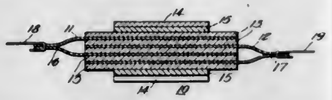
1. In a hair dressing and curling tool, a handle member provided with a longitudinal bore therein, a supporting tube member secured in said bore and extending some distance from one end, a hair clamping member pivotally mounted on said handle and a curling tube conforming with the exterior of and reciprocally mounted on said supporting tube member and under said hair clamping member.

2,166,204
SHOE
Elbert W. Allen, Belgium, Wis.
Original application April 30, 1936, Serial No. 77,119. Divided and this application November 6, 1937, Serial No. 173,095
2 Claims. (Cl. 36—55)



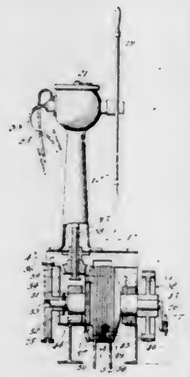
1. In a shoe, the combination with the rear quarter portion of the upper cut to provide a cavity for the heel, of a rear quarter liner marginally conforming at top and bottom to said upper and spaced therefrom intermediate said top and bottom across said cavity, all portions of said liner being substantially inextensible to transmit the pressure of the wearer's heel to the upper margin of the upper for subjecting the upper to tension in a direction tending to draw it snugly to the ankle of the wearer.

2,166,205
FIXED CAPACITOR
Lannes E. Anderson, Collingswood, and Arthur T. Harding, Audubon, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application May 29, 1937, Serial No. 145,454
5 Claims. (Cl. 175—41)



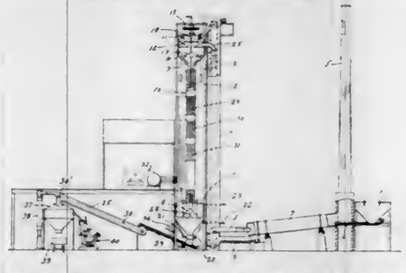
1. A condenser comprising a condenser stack and a clamp about said stack, the clamping force exerted upon said stack by said clamp being normally so great that upon changes in the dimensions of said clamp, due to changes in the ambient temperature, the spacing between the stack elements is altered to a degree sufficient to produce a change in capacitance of a value comparable to the change in capacitance with temperature caused by the change in area of the said stack elements.

2,166,206
COMBINATION HAND AND POWER STEERING APPARATUS
Melvin B. Benson, New York, N. Y., assignor to Lidgerwood Manufacturing Company, Elizabeth, N. J., a corporation of New York
Application March 12, 1937, Serial No. 130,509
11 Claims. (Cl. 114—146)



1. In steering apparatus for optional hand or power-actuation of a member, a drum, a rotatable hand-wheel supported for bodily movement along its axis of rotation to a first position for power-operation of said drum and to a second position for hand-operation of said drum, a motor for operating said drum, means for controlling said motor, connecting means between said motor-control means and said hand-wheel for power-operation of said drum under control of said hand-wheel, connecting means providing a constant and positive mechanical connection between said motor-control means and said drum, said first-named connecting means and said second-named connecting means being effective respectively to cause actuation of said motor-control means in opposite senses upon any control movement of said hand-wheel in either direction, and means operating only when said hand wheel is in said second position thereof to effect a positive mechanical connection between said hand-wheel and said drum for direct hand-operation of the latter from said hand-wheel.

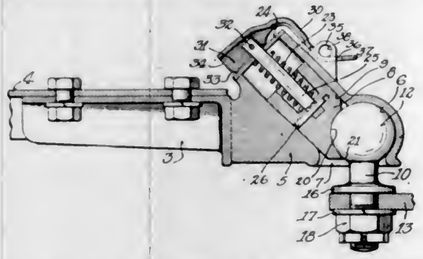
2,166,207
ORE REDUCTION PROCESS
Walter Gordon Clark, Los Angeles, Calif., assignor to Clarkiron, Inc., Los Angeles, Calif., a corporation of Nevada
Application September 8, 1937, Serial No. 162,901
11 Claims. (Cl. 75—11)



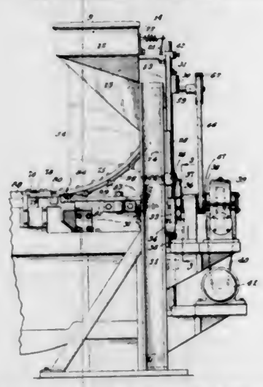
1. A continuous process of reducing metallic iron oxide ores in granular form and in the absence of added spacing material to form metallic iron therefrom, comprising: positively moving iron oxide ore in granular form and at a regulatable rate downwardly through a heating and reducing zone while regulatably heating the ore by induction to progressively increasing temperatures, and discharging the ore into a substantially air-tight cooling zone while said ore is at a temperature of above about 950° C.; introducing natural gas into said cooling zone and decomposing said gas to liberate hydrogen and deposit carbon upon contact with freshly reduced iron ore at above about 950° C.; passing said decomposed and heated gas upwardly through said iron oxide ore in said heating and reducing zone and discharging residual gases from the upper end of said zone; regulating the rate of movement of the ore through said heating and reducing zone and the application of heat in said zone to first reduce the surface of said granular iron ore particles at a temperature below about 600° C. and in the upper portion of said zone, and then reducing the interior of said particles while increasing the temperature thereof at a rate insufficient to cause any iron oxides to break through the surface of the particles of ore; regulating the introduction of natural gas into said cooling zone to maintain a ratio of not less than one volume of hydrogen to one volume of water vapor at the upper portion of said heating zone and a higher ratio of hydrogen in the lower portions of said zone; cooling said reduced ore and carbon deposited thereon in the substantial absence of extraneous air to a temperature below about 200° C.; separating the carbon from the reduced ore by washing the reduced ore with a gaseous fluid to suspend carbon therein; and finally removing the carbon from said gaseous fluid.

2,166,208
COUPLER
Max E. Dayton, Rockford, Ill., assignor of one-half to Bay St. John, Rockford, Ill.
Application November 30, 1936, Serial No. 113,307
8 Claims. (Cl. 280—33.15)

1. In a coupler, the combination with a coupler and head providing a socket having a ball receiving opening, of a latching plunger reciprocable to and from a position wherein said opening is restricted by said plunger, a spring urging said plunger to said position, and plunger retracting means comprising a handle operatively connected to the plunger, and means for locking said handle to said head against the retraction of said plunger.



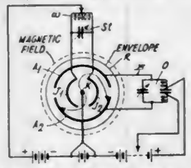
2,166,209
SLUG HANDLING AND TREATING MECHANISM
John H. Fridén, Maplewood, N. J., assignor to The Sun Tube Corporation, Hillside, N. J., a corporation of New Jersey
Application June 18, 1936, Serial No. 85,869
19 Claims. (Cl. 207—1)



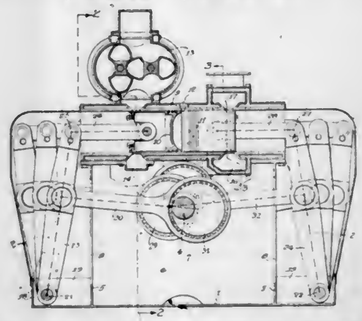
1. In a machine of the class described a hopper for substantially flat disc-like slugs, a continuously traveling conveyor, means for lifting slugs intermittently from said hopper and delivering the slugs by gravity endwise to said conveyor, heating means associated with said conveyor for heating the slugs in transit edgewise thereon, a chute for receiving said slugs from the conveyor, and means for delivering the slugs one by one from said chute to a point of use.

2,166,210
MAGNETRON DISCHARGE TUBE FOR FREQUENCY MULTIPLICATION
Karl Fritz, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application November 16, 1937, Serial No. 174,772
In Germany October 30, 1936
6 Claims. (Cl. 250—36)

6. A high frequency generating system comprising a magnetron discharge tube having a centrally disposed linear cathode and a plurality of cylindrically segmented anodes, said anodes being constituted by two systems one within another, and the axis of at least one of said systems being at a slight angle to the axis of said cathode.



2,166,211
DOUBLE OPPOSED LEVER ENGINE
Edward Gray, Detroit, Mich.
Application June 14, 1937, Serial No. 148,089
6 Claims. (Cl. 123—51)

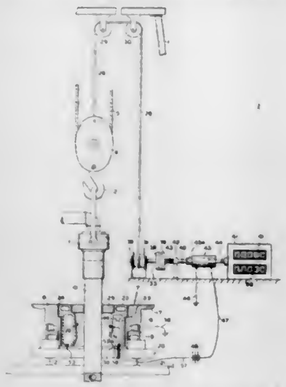


3. In an engine of the character described, an engine structure having a horizontal bank of cylinders and a crank case, opposed pistons in said cylinders, levers fulcrumed at opposite sides of said crank case beneath said cylinders with the free ends of said levers adjacent respective cylinders, means connecting said pistons to respective free ends of said levers, a power shaft mounted in said crank case in a vertical plane intermediate the vertical planes of said lever fulcrums, sets of two eccentrics on said power shaft, and connecting rods connecting oppositely disposed sets of levers to said sets of eccentrics, said connecting rods being connected to respective levers at points nearer the free ends than their fulcrums whereby the engine structure supporting said fulcrums receives a minimum amount of stresses and strains during the power stroke of said piston.

2,166,212
APPARATUS FOR MEASURING WELL DEPTHS AND WELL STRINGS
John T. Hayward, Tulsa, Okla.
Application December 27, 1937, Serial No. 181,798
5 Claims. (Cl. 33—134)

1. In apparatus for registering movements of objects relative to a well, a relatively fixed support member adjacent a well and having an opening therein registering with the well, a register for registering movements of objects relative to said well, an electro-magnetically releasable clutch member normally placing said register in movement-registering connection with said objects, a normally open electrical circuit connecting said clutch member with said support member, and circuit-closing means positioned in said support member to close said circuit to thereby release said clutch member, said circuit-closing means comprising a normally open switch mem-

ber positioned adjacent said opening and adapted to be closed by a compressive force laterally applied from within said opening, and means re-



movably insertable in said opening for applying lateral compression therein for closing said switch member.

2,166,213

COLORING MATTERS OF THE PHTHALOCYANINE TYPE

Isidor Morris Heilbron, Manchester, England, Francis Irving, Grangemouth, Scotland, and Reginald Patrick Linstead, London, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Original application November 15, 1933, Serial No. 698,216. Divided and this application May 14, 1936, Serial No. 79,813. In Great Britain November 16, 1932

4 Claims. (Cl. 260—314)

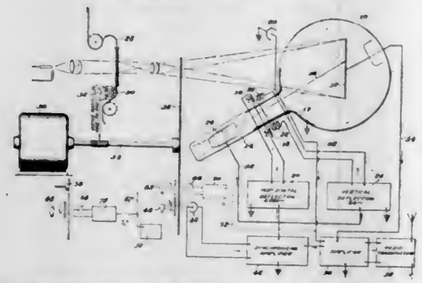
1. Process for the manufacture of phthalocyanine coloring matters which comprises heating a mixture consisting of an o-arylenedicyanide and a cupriferous reagent, until the formation of a blue to green, solid coloring matter, and recovering said coloring matter.

2,166,214

TELEVISION SYSTEM

Ray D. Kell, Haddonfield, N. J., assignor to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application January 3, 1933, Serial No. 649,766
Renewed April 8, 1937
17 Claims. (Cl. 178—7.2)



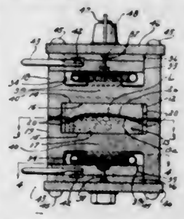
1. In the art of television, the method of operation which comprises developing an electron beam and directing the same at screen structure for the purpose of developing picture signals, varying the intensity of the beam from a given maximum value to a given minimum value and maintaining the beam intensity substantially at the maximum value only during spaced periods of time, deflecting said beam to cause the same to scan said structure during said periods, and projecting onto said structure an image of the object during only the periods of time substantially between said first-named periods.

2,166,215

METHOD OF AND MEANS FOR FORMING UNBREAKABLE LENSES

Ernest G. Lloyd, Los Angeles, Calif.

Application December 28, 1936, Serial No. 117,858
10 Claims. (Cl. 18—19)



1. A method of forming spectacle lenses which have a desired focal length, from an organic thermo-plastic material, which comprises: placing a solid blank of organic transparent thermo-plastic material of greater thickness than that desired in the finished lens between surfaces of opposing dies, said surfaces comprising the reverse of substantially optically perfect dioptric curves desired in the finished lens, said dies being so formed as to permit excess thermo-plastic material to flow out from between said dies; heating the dies and thermo-plastic material to a temperature at which the material becomes sufficiently plastic to flow only under pressure; moving one of said dies toward the other to press the thermo-plastic material with sufficient pressure to cause the material to conform to the contours of the die surfaces and to flow outwardly between the die surfaces; stopping the movement of the dies toward each other to obtain a lens of desired thickness and cooling the dies and material to a temperature below that at which it can be bent and worked while maintaining a pressure on the material, and then removing the formed material from between the dies.

10. In a machine for forming spectacle lenses and the like from organic thermo-plastic materials, the combination of: a pair of die holders movable toward and away from each other, each die holder including an upstanding flange; a pair of dies, each provided with a highly polished surface carrying a dioptric curve reverse to that desired on the finished lens, each of said dies being removably held within the upstanding flange of one of said holders but having its sides spaced from the flange; and removable stop means between opposing flanges of said die holders and spaced from the sides of the dies for limiting the movement of the dies and holders toward one another.

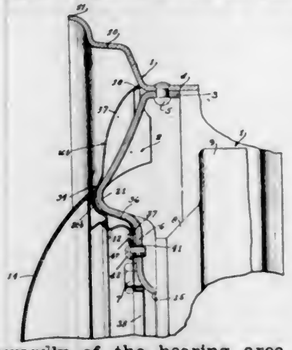
2,166,216

WHEEL DISK CONSTRUCTION

George Albert Lyon, Allenhurst, N. J.

Application December 12, 1934, Serial No. 757,112
8 Claims. (Cl. 301—37)

4. In combination, a wheel including rim and nave parts, and an ornamental disk for disposition inside the outer edge of the rim and over the outer side surface of the nave part, said disk being arranged to bear against a portion of said nave part and be spaced therefrom radially and



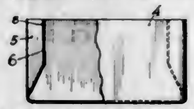
axially inwardly of the bearing area, and securing means adapted to engage the nave part for joining said disk to the nave part, said securing means engaging said disk in the region thereof spaced from the nave part.

2,166,217

HANDBAG

Arthur Mayer, Maspeth, N. Y.

Application August 14, 1937, Serial No. 159,054
1 Claim. (Cl. 150—28)



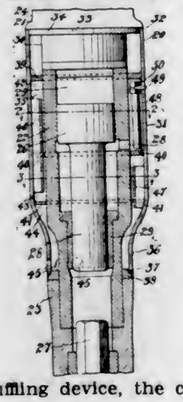
In a method of making a handbag from a body of fibers, those steps which comprise blocking said body so as to produce a bag form thereof having a plait at its sides, slitting said plait at the fold, and securing a handbag frame to the top edges of said form and to the side edges formed by said slit.

2,166,218

MUFFLING DEVICE

William A. Morrison, Easton, Pa., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application April 6, 1937, Serial No. 135,221
4 Claims. (Cl. 121—35)



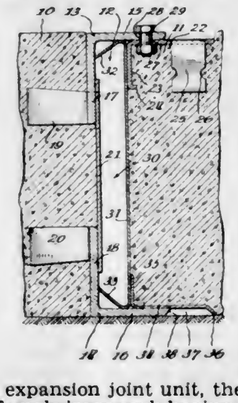
1. In a muffling device, the combination of a pneumatic tool casing having a piston chamber and an exhaust port for the piston chamber, a sleeve around the casing to receive exhaust pressure fluid issuing from the exhaust port and having an outlet opening, transverse partitions in the sleeve to divide the interior of the sleeve into compartments, and a conduit extending into the outer ends of adjacent compartments for conveying fluid from one compartment to another.

2,166,219

EXPANSION JOINT FOR CONCRETE PAVEMENTS OR THE LIKE

Clifford Older, Wilmette, Ill.

Application June 18, 1934, Serial No. 731,042
Renewed May 6, 1939
10 Claims. (Cl. 94—18)



1. In an expansion joint unit, the combination of a pair of angle irons each having a horizontally extending flange and a vertically extending flange, said vertically extending flanges being disposed towards each other and having a plurality of anchoring lugs struck out from said vertically extending flanges, means for fixedly securing said vertically extending flanges to each other in spaced relation to each other and in substantial alignment with each other, a pair of metal fittings adapted to be secured to an adjacent section of concrete, means for securing said latter metal fittings in close contact with the inner surfaces of the horizontal flanges of said angle irons, and a division plate adapted to be located and temporarily secured in spaced relation to said vertical flanges to form an open space between the ends of two adjacent sections of concrete to permit initial expansion of the concrete sections, said division plate comprising a relatively light sheet metal member extending from the horizontal flange of one angle iron to the horizontal flange of the other angle iron and having transversely extending parts adapted to initially space the division plate from the vertical flanges of the angle irons.

2,166,220

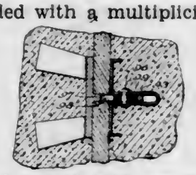
CONCRETE ROAD JOINT

Clifford Older, Wilmette, Ill.

Application November 16, 1936, Serial No. 110,960
8 Claims. (Cl. 94—18)

4. A dowel plate for concrete road joints comprising a member of substantially T-shaped cross section, the top of the T being arranged in vertical position transversely to the direction of the roadway, and the stem of the T serving as a dowel plate, said vertical portion of said member

being provided with a multiplicity of anchoring



lugs punched out of said member and adapted to be embedded in a concrete section.

2,166,221

PROCESS FOR PRODUCING PIGMENT TITANATES

Gordon D. Patterson, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application June 29, 1937, Serial No. 150,966
12 Claims. (Cl. 23—51)

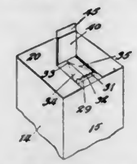
3. A process for producing a chlorine-free, water-insoluble titanate pigment comprising subjecting an intimate mixture of a titanium oxide and an oxygen-metal compound selected from the group consisting of oxides, carbonates, hydroxides and peroxides to calcination at a temperature of at least 450° C. and not exceeding 1050° C. and in an atmosphere of at least 25% by volume of steam.

2,166,222

CARTON

Leonard A. Ranko, Bronx, and Max Feldman, New York, N. Y.

Application December 11, 1937, Serial No. 179,230
9 Claims. (Cl. 229—17)



9. An initially sealed cardboard carton provided with means forming a sifter top having a plurality of relatively small sifter forming openings, means forming a closure for said sifter top initially cemented in its closed position, said closure including weakened portions adapted to be torn apart to provide a hinged closure for subsequently closing the sifter top and means intruded through the first named means for temporarily holding said hinged closure in its closing position.

2,166,223

ANTIOXIDANT

Waldo L. Semon, Silver Lake, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application September 30, 1937, Serial No. 166,561
17 Claims. (Cl. 18—50)

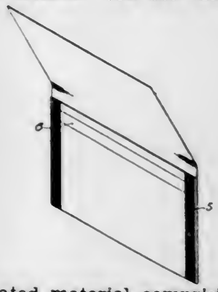
1. The method of retarding the deterioration of an organic substance which tends to deteriorate by absorption of oxygen from the air which comprises treating the said substance with the product obtained by reacting at a temperature within the range 150 to 300° C. an aromatic amine containing at least one hydrogen on the amino nitrogen and an alcohol in the presence of an oxidizing agent.

2,166,224

TOBACCO POUCH

William Henry Shaw, Mimico, Ontario, Canada, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application September 12, 1936, Serial No. 100,454
5 Claims. (Cl. 229—3.5)



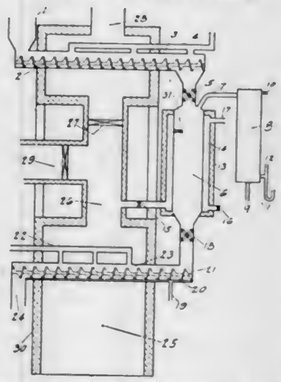
1. A laminated material comprising a flexible dense non-fibrous base intimately joined by means of an oil-varnish ink to a substantial layer of uncured rubber composition.

2,166,225

PROCESS AND APPARATUS FOR PREPARING ACTIVATED CARBON

Ralph H. Twining, Arden, Del., assignor to Darco Corporation, Wilmington, Del., a corporation of Delaware

Application April 2, 1937, Serial No. 134,531
4 Claims. (Cl. 252—3)



1. Apparatus for the continuous manufacture of activated carbon from cellulosic material comprising, in combination, a predryer, a carbonizer, means for transferring dried cellulosic material from the predryer to the carbonizer and to prevent substantial intercommunication of gases therebetween, means for cooling the carbonizer and maintaining its temperature at not over 400° C., an activator, and means for transferring carbonized cellulosic material from the carbonizer to the activator and to prevent substantial intercommunication of gases therebetween.

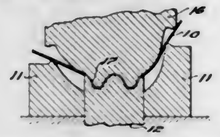
3. A continuous process of preparing activated carbon which comprises predrying comminuted cellulosic material to a moisture content of not over 1% in a predrying zone, transferring the hot dried cellulosic material without contact with air and without substantial loss of heat to a carbonizing zone and completely carbonizing it while preventing intercommunication of gases between said predrying zone and said carbonizing zone, transferring the hot charcoal so produced without contact with air and without substantial loss of heat to an activating zone and activating it while preventing intercommunication of gases between said activating zone and said carbonizing zone.

2,166,226

METHOD OF PRODUCING STAMPINGS

James Vehko, Detroit, Mich., assignor to The Murray Corporation of America, a corporation of Delaware

Application March 11, 1936, Serial No. 68,173
10 Claims. (Cl. 113—116)



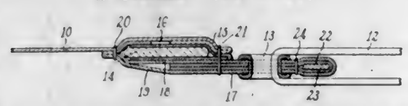
3. The method of forming a deep drawn sheet metal stamping which comprises gathering a portion thereof to provide excess metal therein, stamping the remainder of said blank to final form, the while retaining said gathered portion in deformed condition, and subsequently stamping said gathered portion to final form, at the same time retaining the remainder of the blank in formed condition.

2,166,227

LACE FASTENING FOR CORSETS AND THE LIKE

Irving R. Versoy, New Haven, Conn., assignor to The Berger Brothers Company, New Haven, Conn., a corporation of Connecticut

Application February 5, 1938, Serial No. 188,909
2 Claims. (Cl. 2—39)



1. In a corset having adjacent sections secured together by laces, each of said sections being built up in thickness adjacent its edge and being provided with a stiffening member underlying said thickened edge portion and thereby disposed inwardly from the outer surface of the section, a panel member secured at the inner face of the stiffening member of each section, said panel members projecting from the edges of said sections toward each other and being provided with eyelets, laces in said eyelets connecting said sections together, said panel members being thus disposed a substantial distance inwardly from the outer surface of the thickened edge portions, and the laces lying below a plane passing through the outer surface of said edge portions whereby a garment worm over the corset will lie smoothly over said laces.

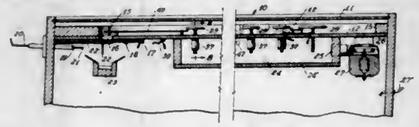
2,166,228

AMUSEMENT GAME APPARATUS

Irven H. Wilsey, Chicago, Ill., assignor of forty-five per cent to John H. Sharp, and ten per cent to E. W. Hibbard, both of Chicago, Ill.

Application July 11, 1936, Serial No. 90,049
15 Claims. (Cl. 273—121)

1. The combination with a game apparatus of the pin ball type including a ball playing board onto which balls are launched for devious movement thereover, of pneumatically driven moving



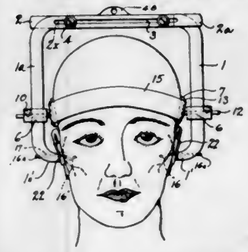
hazard barriers constructed and arranged to be engaged and stopped by said balls.

2,166,229

SPINAL REDUCTION SPLINT

Roger Anderson, Seattle, Wash.

Application January 18, 1937, Serial No. 121,145
12 Claims. (Cl. 128—84)



1. In means for the treatment of spinal injuries, a traction means, with parts disposed at opposite sides of the patient's head, hook shanks mounted in the ends of said arms having hook seats at their ends adapted to seat therein the lower edges of the zygomatic arches to effect a holding connection with the patient's head for an application of tractive force in the direction of the axis of the spine.

2,166,230

TINTED PIGMENTS AND PROCESS FOR PRODUCING THE SAME

James E. Booge and Axel B. Laftman, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application February 18, 1937, Serial No. 126,385
15 Claims. (Cl. 134—78)

9. In a process of producing a pigment tinted to a distinct color the steps of co-precipitating zinc sulfid and a smaller amount of a colored metal sulfid whose metal component will form more than one oxide, said metal being from the group consisting of manganese, mercury, chromium, copper, antimony, cobalt, nickel, lead, silver and molybdenum, said amount being sufficient to impart to the pigment a distinctive color, and calcining said co-precipitate.

2,166,231

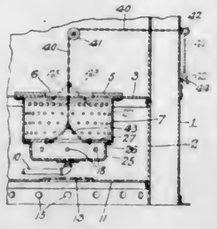
BURNER FOR LIQUID FUELS

James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois

Application February 8, 1937, Serial No. 124,695
6 Claims. (Cl. 158—91)

1. A mechanism for burning liquid fuel which includes a chamber and means for admitting a liquid fuel to the bottom thereof, a wall for said chamber, provided with a plurality of rows of primary air apertures positioned above the level of the liquid fuel, said wall being further pro-

vided adjacent its upper edge with a plurality of secondary air inlet apertures, a baffle positioned above said secondary apertures, a baffle positioned in said chamber at a level above the lowest row of said primary air apertures, said last mentioned



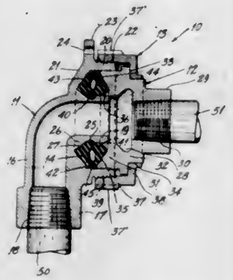
baffle being provided with a central aperture, and means for moving said baffle above the level of primary air apertures of a higher row or rows whereby to put air apertures of said higher row or rows in communication with the space beneath said baffle.

2,166,232

PIPE CONNECTOR

Barnett Morse Brownell, University City, Mo.

Application April 13, 1938, Serial No. 201,711
3 Claims. (Cl. 285—163)



1. A pipe connector comprising a first member having a circular trough, a second member extending into said trough and thereby telescopically engaging said first member, a packing member in said trough between the extremity of the second member and the bottom of the trough, means for maintaining said packing member in associated relationship with said first member, and means maintaining said member telescopically engaged and said packing member compressed to seal the joint between the said members.

2,166,233

PROCESS OF PREPARING ANTINEURITIC SUBSTANCES

Edwin R. Buchman, Pasadena, Calif., assignor to Research Corporation, New York, N. Y., a corporation of New York

No Drawing. Application June 17, 1938, Serial No. 214,316. Renewed May 2, 1939
8 Claims. (Cl. 260—251)

1. The method of preparing vitamin B_1 which comprises condensing 2-methyl-6-amino-5-pyrimidyl-brom-acetic acid with 4-methyl-5-β hydroxy-ethyl-thiazole.

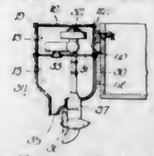
8. The compound 2-methyl-6-amino-5-pyrimidyl-brom-acetic acid.

2,166,234

ENCLOSED OUTBOARD MOTOR DRIVE

Warren M. Conover, Waukegan, Ill., assignor, by mesne assignments, to Outboard, Marine & Manufacturing Company, Wilmington, Del., a corporation of Delaware

Application October 7, 1935, Serial No. 43,822
9 Claims. (Cl. 115—18)



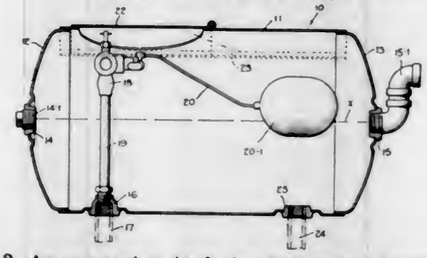
1. The combination with a boat having sides and a transom, of a casing having sides conforming to those of the boat at its rearward extensions thereof and a top registering with the top of the transom, means pivoting the top of the casing to the top of the transom for upward swinging movement of the casing as a whole, and an outboard motor wholly mounted upon and supported by the casing to participate in the upward swinging movement thereof and, through said casing, to drive said boat.

2,166,235

EXPANSION TANK

Edward S. Cornell, Jr., Larchmont, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application May 29, 1937, Serial No. 145,531
2 Claims. (Cl. 237—66)



2. An expansion tank for hot water heating systems of the atmospheric type, comprising a horizontally disposed cylindrical tank having end-closure plates provided with a central opening, an aperture formed in a wall of said tank, closure plate means for said aperture, a ball-float valve mechanism disposed within said tank and having a ball-float lever arm extending horizontally and downwardly toward the axis of said cylinder, said ball-float valve arranged to admit make-up water to said tank and to stop water inflow thereto within predetermined levels of operation in a zone disposed substantially centrally of said tank, make-up water inflow means communicating with said valve and supporting the same adjacent said aperture, said water inflow means being secured to the bottom of said tank near an end thereof, water inlet means arranged for connection to said heating system and disposed at the bottom of said tank in spaced relationship to said make-up water inflow means, and a substantially S-shaped water discharge means connected to said tank at one of said central openings and terminating at a point above the normal operating water level in the tank, whereby accommodation for water expansion is afforded between the said water level and the point of water overflow.

2,166,236

COMPOSITION OF MATTER

Richard A. Crawford, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application March 6, 1937, Serial No. 129,520
2 Claims. (Cl. 106—23)

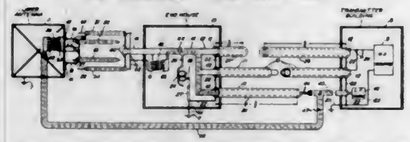
1. A spongy, sound-deadening material comprising substantially 10% to 40% of rubber, 20% to 40% of a filler, 5% to 10% of a softener, 30% to 70% of pitch, and a dispersing agent.

2,166,237

ANTENNA COUPLING SYSTEM

Robert A. Cushman, Morristown, Phillip H. Smith, Denville, and Malcolm A. Specht, Tenafly, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 15, 1938, Serial No. 213,766
10 Claims. (Cl. 250—33)



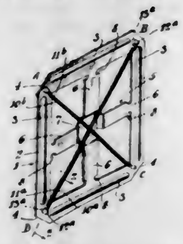
1. In combination, a substantially linear tubular conductor having a low resistance, a solid conductor having a high electrical resistance and positioned within and electrically insulated from said tubular conductor, a source of radio frequency energy electrically connected to said tubular conductor, and a source of heating current connected in series with said conductors.

2,166,238

MOVEMENT-PRODUCING DEVICE

Lincoln K. Davis, Brockton, Mass.

Application April 6, 1935, Serial No. 15,033
Renewed May 4, 1939
23 Claims. (Cl. 200—137)



1. A resilient flexible element rigid along discontinuous portions and initially stressed to curve it oppositely about lines extending between non-adjacent flexible portions, and a second element secured to said first element at portions lying on opposite sides of one of the lines about which said first element is curved, said second element being responsive to a predetermined change in temperature to change its length, and effect an abrupt change of curvature of said first element.

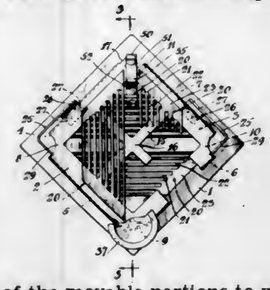
2,166,239

MOVEMENT-PRODUCING DEVICE

Lincoln K. Davis, Brockton, Mass.

Application May 5, 1936, Serial No. 77,941
12 Claims. (Cl. 74—97)

1. A movement-producing device comprising a frame having a resilient portion and relatively rigid portions relatively movable through a position of unstable equilibrium, and a flexible sheet connected between movable portions of said frame, the width of said sheet corresponding to



the lengths of the movable portions to which it is connected, said frame and sheet being active upon a predetermined change in their relative dimensions to produce movement of said frame through the position of unstable equilibrium.

2,166,240

HETEROCYCLIC COMPOUNDS

Charles Enrique Dent, London, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application April 26, 1938, Serial No. 204,464. In Great Britain April 30, 1937
18 Claims. (Cl. 260—314)

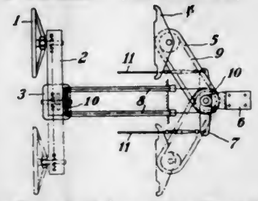
2. A compound of the group consisting of tetrabenzo-triaza-porphin, its metallic compounds and its monovalent Bz-substitution derivatives.

2,166,241

DUAL CONTROL DEVICE FOR AIRCRAFT

Jean Guy Marie Josef de Wouters d'Oplinter, Brussels, Belgium

Application February 5, 1938, Serial No. 188,965
In Great Britain February 15, 1937
6 Claims. (Cl. 244—84)



1. In a dual control for aircraft, a single set of hand-operated controls laterally swingable for operation from either of two side by side seats, a single set of foot-operated controls laterally swingable for operation from either of two side by side seats and means connecting said hand and foot-operated controls whereby the laterally swinging movement of the hand-operated control effects corresponding swinging movement of the foot-operated controls.

2,166,242

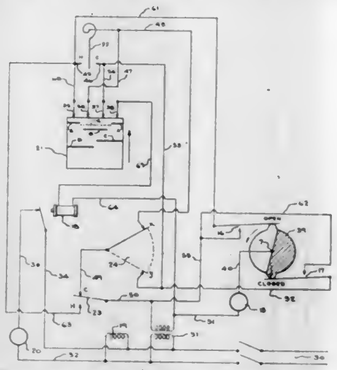
METHOD AND APPARATUS FOR THE CONTROL OF TEMPERATURE

Mervin R. Doolittle, Jackson, Mich.

Application September 1, 1936, Serial No. 98,962
15 Claims. (Cl. 236—74)

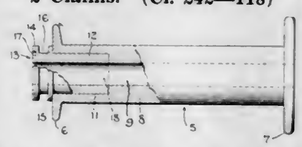
1. In a thermostatically controlled system for the regulation of the temperature in a space

heated by a furnace having a draft, a circuit operative to regularly open the draft for a predetermined period and to close the draft for a predetermined period, within a fixed temperature range, cyclically operating means in said circuit for controlling said circuit, a motor for driving the said means, a circuit for controlling



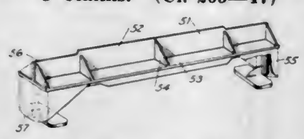
said motor, and a circuit including a thermostat and second cyclically operating means to open said motor circuit to render said first cyclically operating means inoperative when the temperature controlled is out of said range to maintain the draft open or closed depending on its position when said first named means is rendered inoperative.

2,166,243
BOBBIN
William J. Elvin, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
Application December 17, 1937, Serial No. 180,275
2 Claims. (Cl. 242—118)



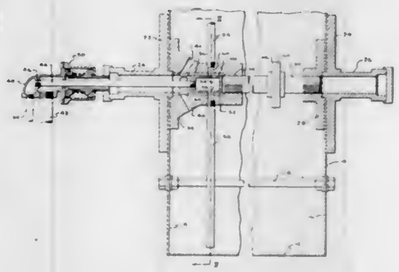
1. In a bobbin or spool for use in spinning and twisting machines, a bushing comprising a shank adapted to be received in the bore of the bobbin or spool, and having a portion integral with said shank and extending beyond the end of said bobbin or spool, said extended portion having spaced flanges thereon forming a plurality of braking surfaces, one of said braking surfaces being adapted to receive a brake band.

2,166,244
BRAKE TESTING DEVICE
Joseph N. Freeman, Cedar Rapids, Iowa
Application September 8, 1936, Serial No. 99,719
3 Claims. (Cl. 265—47)



1. In a brake testing device, a supporting framework and a platform mounted on the supporting framework for longitudinal motion thereover, and means for mounting the platform on the framework comprising a transversely extending rocker member having a pair of rounded portions at its upper edge and having slots at its lower side, means on the framework for engaging the slots of the rocker and the rocker having curved lower edges adapted to roll on the supporting framework.

2,166,245
CONDENSATE SIPHON
Leonard D. Goff and Rollo O. Monroe, Three Rivers, Mich., assignors to The Johnson Corporation, Three Rivers, Mich., a corporation of Michigan
Application January 12, 1938, Serial No. 184,654
2 Claims. (Cl. 34—4)

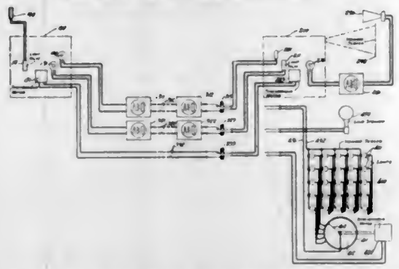


1. A rotary siphon designed for installation in a drying drum concentric with its axis of rotation, comprising a flange part having a hollow interior adapted to be entirely supported and housed within the drum, ports through said part for discharging steam into the interior of the drum, a plurality of radially disposed siphon pipes supported upon said flange part and communicating with the interior thereof, a siphon selector adapted to be held against rotation and having a single port therein, said siphon pipes being successively brought into communication with said selector port upon rotation of the drum.

2,166,246
MANUFACTURE OF CALCIUM ARSENATE
Ivan L. Haag, Lakewood, Ohio, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 25, 1937, Serial No. 144,640
5 Claims. (Cl. 23—53)

1. In the manufacture of basic calcium arsenate by the addition of arsenic acid to lime slurry with agitation the method for obtaining a basic calcium arsenate having amorphous-like properties and a *total* water-soluble arsenic content less than 0.75 per cent which comprises maintaining a body of lime slurry in a state of agitation, introducing a further quantity of lime slurry by means of an impeller type pump, and simultaneously introducing arsenic acid into the suction side of said pump, the rate of addition of lime slurry and arsenic acid being so adjusted that the excess of lime initially present in the reaction mixture gradually diminishes to an endpoint at which the reaction product contains in the order of 41 per cent arsenic oxide.

2,166,247
ELECTRO-OPTICAL TRANSMISSION SYSTEM
Ralph V. L. Hartley, South Orange, and Herbert E. Ives, Montclair, N. J., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application September 14, 1927, Serial No. 219,404
Renewed August 27, 1930
42 Claims. (Cl. 178—5.6)



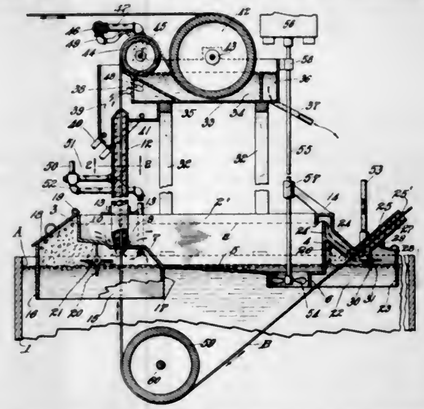
1. A system for producing successive images of a field in which the objects may be moving or changing comprising means for successively impressing views of the field upon a photographic record, means controlled by said record and operating simultaneously with said first means for producing said images, means for scanning the elemental areas one at a time of each image, and means to maintain a fixed motional relation between said recording means, said image producing means and said scanning means.

2,166,248
ELECTRICAL CONTACTING ELEMENT
Franz R. Hensel and Kenneth L. Emmert, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
No Drawing. Application January 5, 1939, Serial No. 249,476
5 Claims. (Cl. 200—166)

1. An electrical contact member containing as essential ingredients, silver and at least one of the elements tungsten and molybdenum to which has been added manganese in the quantities ranging from 0.1 to 30%.

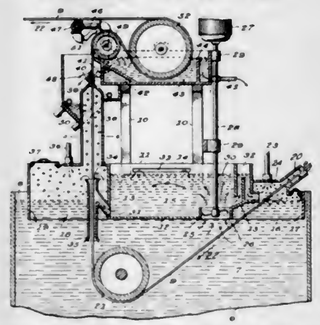
2,166,249
APPARATUS FOR COATING METALLIC MATERIALS
Joseph L. Herman, Peoria, Ill.
Application December 3, 1934, Serial No. 755,757
4 Claims. (Cl. 91—12.5)

1. An attachment for a pot containing molten zinc, comprising a support adapted for association with said pot, a pan connected with said support and when said support is located on said pot being partially submerged within the molten zinc, a compartment depending from one end of said pan and opening into the molten zinc and having an overlying wall having an opening for the passage of wires therethrough, a vertically disposed housing coincident with said opening and communicating with said compartment, means to supply the housing with a non-oxidizing gas, a water box supported above said pan, a drain at one end of said water box with which the upper end of said housing communicates, discharge outlets from said water box into said drain, wire guiding sheave wheels journaled to rotate within said water box, means to supply water onto certain of said sheave wheels, a propeller within said pan and within a depending



open tubular extension therefrom, and means for operating said propeller.

2,166,250
METHOD OF COATING METALLIC MATERIALS
Joseph L. Herman, Peoria, Ill.
Application April 2, 1936, Serial No. 72,425
4 Claims. (Cl. 91—70.2)

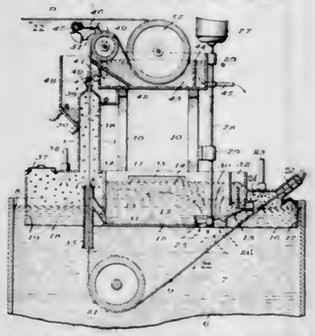


1. The method of galvanizing an article, comprising immersing the article in a molten zinc bath, effecting movement of a part of said bath to an oxygen-free atmosphere and liberating the same in said atmosphere, withdrawing the coated article from the bath through the moving part of the bath and in the general direction of movement of the latter, exposing the coated article to said oxygen-free atmosphere beyond the point of said liberation of the moving part of the bath, quenching the coating on withdrawal of the coated article from the oxygen-free atmosphere, and protecting the coated article from contact by air during said quenching and from extraneous abrasive contacts as the coated article leaves the bath and until its coating is quenched.

4. The method of galvanizing an article, comprising immersing the same in a molten zinc bath, withdrawing the coated article from the bath, substantially protecting the coated article from air until the coating is cooled and set, and cooling and setting the same by contacting water with the coating while the same is protected by a non-oxidizing gas and flame, the delivery of water being in a direction transverse to the movement of the coated article and the

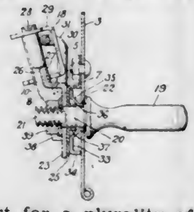
flame being in adjacence to the same and therebelow so that a non-oxidizing gas exerts its influence substantially throughout this area of treatment.

2,166,251
APPARATUS FOR COATING METALLIC MATERIALS
Joseph L. Herman, Peoria, Ill.
Original application April 2, 1936, Serial No. 72,425. Divided and this application August 29, 1936, Serial No. 98,607
2 Claims. (Cl. 91—12.5)



2. In a machine for galvanizing a metal article, means for conducting the article to be coated through a bath of molten material, means for effecting movement of a portion of the bath material along with the discharging movement of the coated article from the main body of the bath with the article remaining in contact with said moving material to a point of separation remotely related to the main body of the bath, means for enveloping the coated article and the said moving bath material in the area of its separation from the coated article with an oxygen-free atmosphere tending to cool the coating on the article while protecting the same and the moving bath material from exposure to air, means for discharging the coated article from the oxygen-free atmosphere into a flame area, and means for contacting the coated article with a quenching liquid immediately adjoining the flame area.

2,166,252
HOOD LATCH
Dibrell P. Hynes, Chicago, Ill., assignor to Chicago Forging & Manufacturing Company, Chicago, Ill., a corporation of Illinois
Original application September 3, 1937, Serial No. 162,309. Divided and this application April 8, 1938, Serial No. 200,848
2 Claims. (Cl. 308—21)

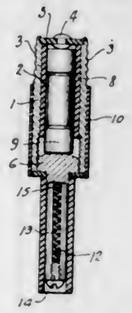


2. In a support for a plurality of shafts, the axes of said shafts being at right angles to each other, a relatively extended supporting member, a base plate, said base plate including flanges engaging said supporting member, and a web spaced outwardly away from said supporting member through a substantial area, an intermediate reinforcement between said web and said supporting member, including portions extending through apertures in said supporting member, said portions being formed into bearing sleeves, a shaft extending through said bearing sleeves, and being located on the side of said base plate opposite to said intermediate reinforcement, and an additional shaft extending through said supporting member, said web and said reinforcement, and alined bearing members for said shaft, one being formed in said web and another in said intermediate reinforcement.

2,166,253
ZINC CHLORIDE
Raymond J. Kepfer, Lakewood, and Arthur K. Telfer, Akron, Ohio, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 11, 1937, Serial No. 174,056
2 Claims. (Cl. 23—97)

1. A composition of matter consisting essentially of zinc chloride and a small amount of at least one hydroxy carboxylic acid selected from the group consisting of citric acid and tartaric acid.

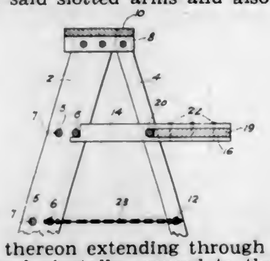
2,166,254
COMBINATION ELECTRIC FUSE AND CIRCUIT EXTENSION CONNECTOR
Richard F. Kneisley, Toledo, Ohio, assignor to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio
Application July 14, 1937, Serial No. 153,492
6 Claims. (Cl. 200—115.5)



1. A plug type electrical connector member having an internal chamber, a main center end contact and a side contact insulatingly spaced from each other and adapted for engagement respectively with the center and side contacts of an electric fuse socket, an electric connector contact at the outer end of the chamber, and an electric fuse cartridge in said chamber and establishing electrical connection between said center and both said side and outer end contacts.

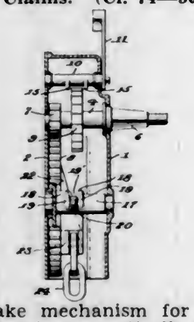
2,166,255
STEPLADDER
John H. Ligon, Anna, Ill.
Application June 16, 1938, Serial No. 214,024
2 Claims. (Cl. 228—29)

1. A stepladder comprising a step section and a prop section hingedly secured thereto, a plurality of steps on said step section, each step consisting of a pair of spaced rungs independently secured to the opposite sides of said step section, a shelf pivotally secured to said prop section and comprising a pair of slotted arms, a platform having the opposite edges thereof engaged in said slotted arms and also having a



fixed rung thereon extending through said slotted arms and pivotally secured to the opposite sides of said prop section, the ends of said arms being notched and disposed so as to engage under one of the rungs of said step section when the shelf is moved to a horizontal position.

2,166,256
HAND BRAKE MECHANISM FOR RAILWAY CARS
James E. Lindeman, Evanston, Ill., assignor to Champion Brake Corporation, Wilmington, Del., a corporation of Delaware
Application May 26, 1936, Serial No. 81,903
11 Claims. (Cl. 74—505)



1. Hand brake mechanism for railway cars, comprising a housing, a vertically disposed operating wheel supported by said housing, and a brake chain operating wheel journaled within the housing formed from a single piece having gear teeth around its periphery, a shaft formed with an enlargement adjacent the outer face of the wheel, having a cross groove formed therein, a plurality of concave portions formed on the enlargement, a projecting member disposed between the portions adapted to be straddled by a chain link seated on said portions, said member constituting means for guiding a chain link to and within the groove, a member near the periphery of the wheel within which the end link of the chain is secured.

2,166,257
TITANIUM PIGMENT AND PROCESS FOR PRODUCING THE SAME
Willard H. Madson, Linthicum Heights, Md., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 28, 1937, Serial No. 139,497
16 Claims. (Cl. 134—58)

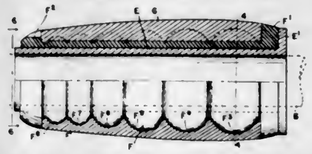
1. A process for producing a while stable titanium pigment, comprising incorporating in said pigment subsequent to calcination a minor amount of a precipitated, insoluble beryllium compound from the group consisting of an oxide and hydroxide.

2,166,258
REVERSIBLE TOP FOR CAMERA STANDS
Gabriel Matrat, Paris, France
Application January 13, 1938, Serial No. 184,855
In Luxemburg January 14, 1937
5 Claims. (Cl. 248—187)



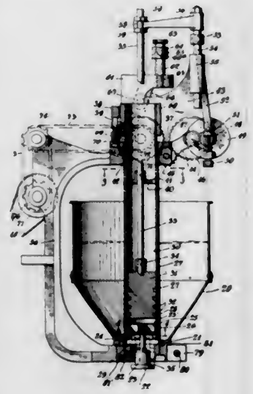
1. In a reversible top for camera stands, the combination of two matching plates, one reversed in position in respect to the other, each plate having a flattened portion with an opening therein and each plate having spaced radial cut-outs in its perimeter, and of substantially semicircular cross-sectional shape, a joining member having ends of different screw threads, one a congress and one a Kodak thread, having a flange, and a central portion of the configuration of the opening in the plates, and a nut having a threaded opening adapted to engage one of the threaded ends, the flange resting against one of the plates, and the nut resting against the other of the plates, and a plurality of supporting rods, each having a squared rod lockingly engaging the cut-outs of the plates and having a part extending therefrom engaged by the plates between the same, whereby when the joining member is in one position its thread is adapted to engage a threaded bore of corresponding kind, and when in another position its threaded end is adapted to engage a bore with a different thread.

2,166,259
SHAFT BEARING
Theodore F. W. Meyer, Birmingham, Mich., assignor to Federal Mogul Corporation, Detroit, Mich., a corporation of Michigan
Application January 13, 1938, Serial No. 184,849
6 Claims. (Cl. 308—26)



1. A shaft bearing having a plurality of coaxially disposed members, the inner one of which is formed of non-frictional material and within which a power-transmitting shaft is adapted to engage, a closely fitting housing of resilient material positioned thereabout, the outer peripheral face of said housing being annularly ridged, and an enclosing shell for said housing of resilient material, having its interior surface provided with ridges of lesser diametrical size than those on the outer surface of the housing of resilient material, within which the correspondingly positioned ridges on the latter are compressively lodged, thereby enabling the absorption within the mass of the latter of the vibrations incident to the operative activity of the shaft.

2,166,260
DOUGHNUT CUTTER
Ira S. Mosher, East Orange, N. J.
Application December 22, 1938, Serial No. 247,167
4 Claims. (Cl. 107—14)

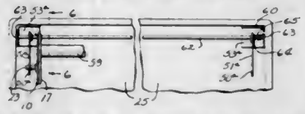


2. In a doughnut cutter the combination with a dough hopper having a delivery throat in the bottom thereof; and a portable gun unit comprising a ported outer sleeve adapted to prolong said throat upwards above the dough filling level of the hopper, an inner sleeve having a disc valve depending from its lower end, said inner sleeve being mounted to slide up and down within said outer sleeve with the adjacent surfaces of said inner and outer sleeves in contacting engagement to alternately uncover and cover the port in the outer sleeve while simultaneously drawing said disc valve upwards into and lowering said disc valve downwards out of said delivery throat, and a plunger mounted to slide up and down within said inner sleeve to draw dough from the hopper through the port in the outer sleeve during the upward movement of the inner sleeve, disc valve, and plunger, and to expel dough through the delivery throat during the downward movement of the inner sleeve, disc valve, and plunger; of a stationary bracket comprising, means for demountably supporting the hopper and the gun unit in operative registry, means mounted on the bracket operable to actuate said inner sleeve and said plunger independently and in interdependent timed sequence, and means for rapidly interconnecting said inner sleeve and said plunger with their respective actuating means.

2,166,261
PROCESS OF COATING AND PRODUCT THEREOF
William Henry Moss, London, England, assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 16, 1931, Serial No. 581,528. In Canada September 21, 1928
6 Claims. (Cl. 91—68)

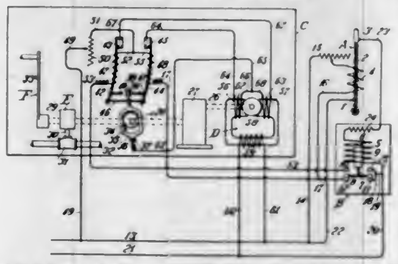
1. Process of coating metallic surfaces comprising first applying to said surfaces a coating composition containing cellulose nitrate as the sole cellulose derivative constituent thereof and then applying directly to the film formed thereby a coating composition containing an organic derivative of cellulose as the sole cellulose derivative constituent thereof.

2,166,262
LUGGAGE CARRIER
Benjamin A. Otten, Wauwatosa, Wis., assignor to Milwaukee Stamping Company, West Allis, Wis., a corporation of Wisconsin
Application November 18, 1935, Serial No. 50,347
1 Claim. (Cl. 190—41)



A luggage carrier cover having hinges connected with one margin and an oscillatory rod mounted within the cover adjacent the opposing margin, in combination with a set of latch hooks secured to said rod, and resilient yielding means for normally holding said latch hooks in a rack engaging position.

2,166,263
TEMPERATURE MODULATING SYSTEM
Paul B. Parks, Oak Park, and William M. Smith, Chicago, Ill., assignors to Vapor Car Heating Company, Inc., Chicago, Ill., a corporation of New York
Application September 18, 1936, Serial No. 101,463
13 Claims. (Cl. 236—68)

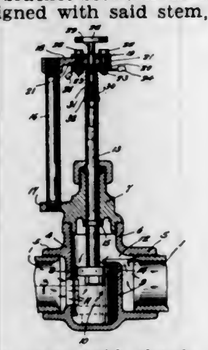


3. In a temperature controlling system, in combination, a mercury-column thermostat responsive to temperature changes at a certain location, a circuit adapted to be completed or broken through the mercury column of said thermostat as the temperature rises to or falls below a predetermined maximum, a heating element positioned adjacent the thermostat and adapted to impart additional heat thereto, an energizing circuit for the heating element, circuit-controlling means for closing the energizing circuit when the first-mentioned circuit is broken and vice-versa, and a temperature regulating mechanism adjusted by said circuit-controlling means.

2,166,264
FIRE ALARM
James J. Piper, Spokane, Wash.
Application March 29, 1938, Serial No. 198,777
2 Claims. (Cl. 200—81)

1. A circuit closer comprising a casing having a fluid inlet and a fluid outlet and a cylindrical chamber between the same, a removable hood for said casing disposed over said chamber in axial alinement therewith, a side arm extending from said hood, a piston slidable in said chamber and having a stem projecting from the casing through said hood, a support carried by said arm and extending therefrom longitudinally of the stem in spaced relation to one side thereof, a bracket carried by said support and extending laterally therefrom transversely of the stem across the

outer end thereof, stationary contacts carried by said bracket in insulated relation to the same and to each other, a movable contact for bridging the stationary contacts having a shank slidable through said bracket between the stationary contacts and aligned with said stem, an abutment



nut threaded upon said shank, an insulating washer about said shank disposed between the abutment and said stem, and a spring about said shank engaging the abutment and urging the shank toward the stem to maintain the insulating washer in engagement with the outer end of said stem.

2,166,265
FOLDING PACKAGING RECEPTACLE
Paul M. Ressinger, Chicago, Ill.
Application March 25, 1936, Serial No. 70,838
8 Claims. (Cl. 229—5.5)



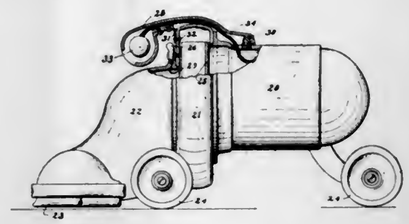
1. In a container, end closures having circumferential grooves near the periphery thereof, a side wall member formed of corrugated fibrous material, the edges of said side wall member being inwardly bent to form flanges, the free inner edges of said flanges being seated in the grooves in said closure members, said closure members being freely slidable inwardly along the inner face of said side wall member when the parts are in normal closed position.

2,166,266
LIGHTER
George Philip Schmitt, New York, N. Y., assignor to Platinum Products Corp., New York, N. Y., a corporation of New Jersey
Application November 27, 1935, Serial No. 51,796
3 Claims. (Cl. 67—7)



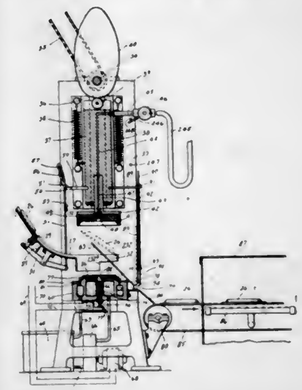
1. The method of preparing a catalyst for coaction with a vaporizable fluid to incandesce the same, the catalyst being in the form of a block, which consists in placing the block in a holder and applying pressure to the block to form cracks therein thereby providing passages for the vapors.

2,166,267
SUCTION CLEANER HEADLIGHT
George H. Scott, Lakewood, Ohio, assignor to The Scott & Fetzer Company, Cleveland, Ohio, a corporation of Ohio
Application February 18, 1935, Serial No. 6,999
2 Claims. (Cl. 240—2)



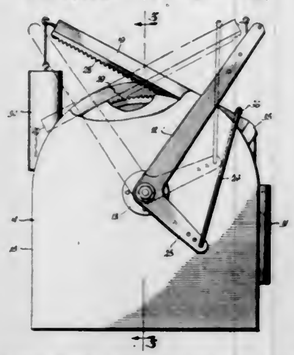
1. In a suction cleaner, a casing structure comprising a suction nozzle, a fan case and a motor housing, means for detachably securing said nozzle to said fan case, a lamp holder pivotally secured to said motor housing and extending over the suction nozzle whereby the lamp holder may be swung away from its operative position over the nozzle at the will of the operator, and a manually operable locking device located beneath said lamp holder when the lamp holder is in its operative position and exposed for manipulation when said lamp holder is moved to its inoperative position.

2,166,268
APPARATUS FOR FORMING COATED PAPER PLATES
Paul R. Simmons, Logansport, Ind., assignor to Purity Paper Products, Inc., a corporation of Indiana
Application March 16, 1936, Serial No. 69,063
Renewed December 3, 1938
20 Claims. (Cl. 91—47)



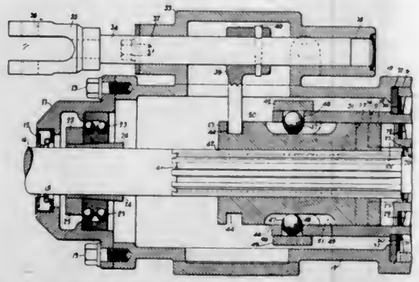
1. A paper plate coating apparatus, including a base member for receiving and supporting a plate to be coated, a head member, means for moving one of said members toward the other for clamping the plate therebetween, one of said members being of the reservoir type and including a plurality of discharge ports for the coating fluid, and means for causing rotary movement of one of said members for effecting distribution of said coating fluid over the surface of said plate.

2,166,269
APPARATUS FOR STENCIL DECORATING
John C. Smith, Beaver, Pa., assignor to Solar Laboratories, Beaver, Pa., a corporation of Pennsylvania
Application June 28, 1937, Serial No. 150,790
8 Claims. (Cl. 101—123)



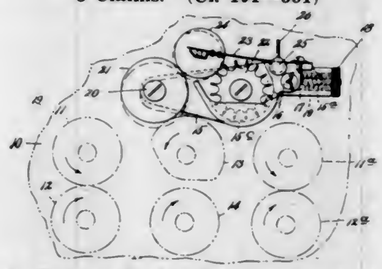
1. An apparatus for decorating ware having convex surfaces, which comprises, means for holding the ware, a screen carried in a frame, means for rocking the screen serially to feed successive portions of the screen into contact with the successive portions of the surface of the ware, a squeegee positioned for traverse of the screen as it is rocked, and means relating the rate of traverse of the squeegee on the screen with the rate of rocking of the screen upon the ware, whereby ink applied to the screen is fed therethrough as the screen contacts successive portions of the ware.

2,166,270
SPLIT DRIVE DUAL CONTROL
Ralph E. Smith, Galion, Ohio, assignor to The Galion Metallic Vault Company, Galion, Ohio, a corporation of Ohio
Application September 24, 1937, Serial No. 165,559
4 Claims. (Cl. 74—11)



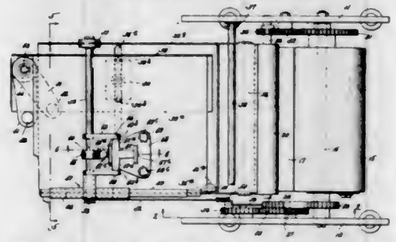
1. A power take-off mechanism comprising a driving member, a shiftable clutch member drivingly connected thereto, said clutch member having clutching elements and an annular ball race with a plurality of communicating ball pockets, a first power-transmitting member having clutching elements selectively interengageable with the clutching elements of said clutch member, and a second power-transmitting member having balls operatively connected thereto and engageable with said ball race and ball pockets, said clutch member being selectively disposable in a first position with said balls freely rotatable in said ball race but with said clutch elements completely disengaged, and in a second position with said balls drivingly engaged with said ball pockets but with said clutching elements completely interengaged, and in a third position with said balls freely rotatable in said ball race but with said clutching elements only partially interengaged.

2,166,271
INKING DEVICE FOR MAIL HANDLING MACHINES
Frederick W. Storck, Arlington, Mass., assignor to Standard Mailing Machines Company, Everett, Mass., a corporation of Massachusetts
Application April 2, 1937, Serial No. 134,558
5 Claims. (Cl. 101—351)



1. A fluid applicator that includes a primary applicator, a fluid reservoir and a second substantially floating applicator roller provided with an absorptive face and adapted, when rotated, to transfer fluid therefrom to said primary applicator, together with means for conveying fluid from said reservoir to said second applicator, said means comprising a rotatable element disposed relative to said reservoir and having a plurality of radially extending portions, each terminating in a limited area which is adapted to engage in said fluid and subsequently contact with said second applicator as said element is rotated, said second applicator being mounted to resiliently engage with both said primary applicator and said conveying means, with means for rotating said applicators and element in unison.

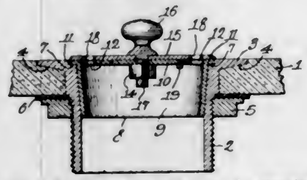
2,166,272
SHEET FEEDING APPARATUS
Frederick W. Storck, Arlington, Mass., assignor to Standard Mailing Machines Company, Everett, Mass., a corporation of Massachusetts
Application March 26, 1938, Serial No. 198,283
41 Claims. (Cl. 271—43)



1. In a sheet feeding device, a support for a stack of sheets, upwardly extending guides for the opposed edges of the stack, one of said guides being transversely adjustable on said support and embodying a base extending longitudinally of said support, a pivoted stop member supported by said guide; an abutment stop for the forward end of the stack of sheets comprising a shank portion

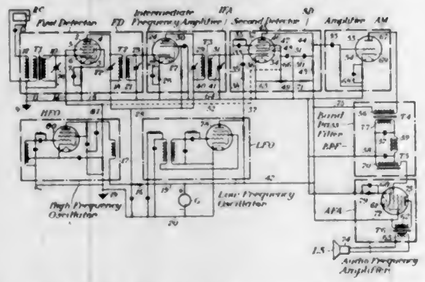
vertically disposed and slidably mounted in said support and having a projecting portion adapted to engage with the upper face of the stack, said abutment stop being positioned from the center of said forward end and toward one of the side edges of the stack; a carriage movable longitudinally relative to said stack support, said carriage including a slidable bearing portion engaging with a guide member associated with said support and an opposed bearing member for said carriage freely engaging with said support; a transverse member for said carriage; a member freely supported by said transverse member; a friction device attached to said last member and adapted to engage with a portion of the upper face plane of the stack of sheets, and substantially in advance of said carriage transverse member; means for reciprocating said carriage relative to the face plane of the stack of sheets and in a timed relation, and whereby the uppermost sheet of the stack is separated and advanced from said stack.

2,166,273
COMBINATION SINK STOPPER AND STRAINER
Joseph Ulmer, Chicago, Ill.
Application February 2, 1939, Serial No. 254,303
1 Claim. (Cl. 4—287)



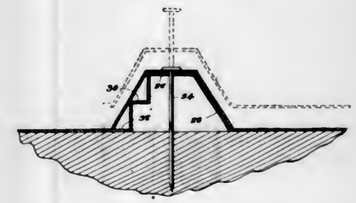
A combined sink stopper and strainer comprising a tubular body having a closure at its upper end, a gate above the closure, the gate and the closure having openings so located as to be brought into registration when the gate is rotated, the gate having a stem threaded into the closure and clamping the gate hermetically on the closure when the openings of the gate and the closure are out of registration.

2,166,274
RECEIVING APPARATUS FOR COMMUNICATION SYSTEMS
Leland D. Whitelock, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application July 13, 1937, Serial No. 153,317
12 Claims. (Cl. 250—20)



1. Receiving apparatus comprising, a first electron tube detector, a second electron tube detector, a source of high frequency carrier current, a source of low frequency carrier current, a receiving circuit proportioned for response to a carrier suppressed single side band communication current having a given signaling frequency band and the carrier of which is of the same frequency as said low frequency carrier, means to couple the receiving circuit and said source of high frequency carrier with the input electrodes of said first detector tube to modulate said high frequency carrier by the communication current picked up by the receiving circuit, coupling means to couple the output electrodes of said first detector tube with the input electrodes of said second detector tube, said coupling means proportioned to select a particular side band resulting from said modulation, other coupling means to couple said source of low frequency carrier and said source of high frequency carrier with the input electrodes of said second detector tube to produce as a product of demodulation the signaling frequency band of said communication current, a signaling device responsive to such signaling frequency band, and means to couple said device with the output electrodes of said second detector tube including a band pass filter proportioned to pass such signaling frequency band.

2,166,275
SHEET METAL ROOFING
William T. Williams, Terre Haute, Ind.
Application November 17, 1936, Serial No. 111,276
2 Claims. (Cl. 108—18)

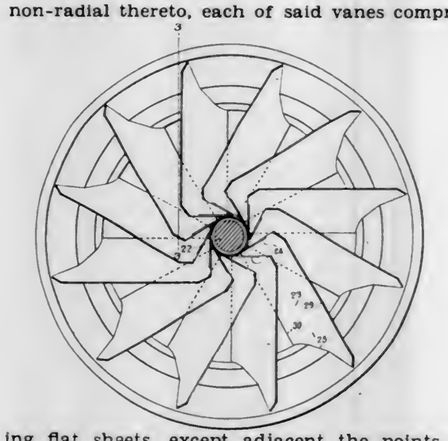


1. In roofing of the character described a sheet of metal provided at one side with an integral upstanding ridge having a flat top and diverging sides, the innermost side being provided with a centrally disposed step therein including a horizontal tread and vertical risers and the outermost side thereof being flat, a second sheet provided at one side with an integral upstanding ridge having a flat top and diverging flat sides, said second ridge being placed upon said first-named ridge in overlapping relationship, the outer side portion of the upper ridge having its central portion resting on the apex of the step of the underneath ridge, the free end thereof resting on the flat surface of the sheet defining a pair of air spaces therebetween adapted to interrupt capillary attraction.

2,166,276
TUNNEL FAN
Edward L. Anderson, Wayne County, Mich., assignor to American Blower Corporation, Detroit, Mich., a corporation of Delaware
Application October 6, 1937, Serial No. 167,620
17 Claims. (Cl. 230—114)

1. In a fan, the combination of a fan casing, a fan rotor and a plurality of flat air inlet vanes the maximum dimension of which is at right angles to the fan rotor axis and characterized by having the leaving edge thereof radial to the axis of the rotor, and the entry edge of the fan

non-radial thereto, each of said vanes comprising flat sheets, except adjacent the points of attachment of the inner and outer edges thereof.



2,166,277
FIRE EXTINGUISHER
Charles L. Adams, Cape May, N. J.
Application March 9, 1938, Serial No. 194,954
2 Claims. (Cl. 169—26)

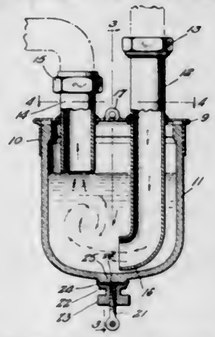


1. In a portable automatic fire extinguisher, a tank, a hollow valve body mounted in the mouth of the tank, and having a valve seat, a valve member normally closing the valve seat, a hollow valve stem carrying a valve at its inner end and adapted to normally close the valve seat, said valve stem having openings whereby fire extinguishing liquid may pass from the valve stem, a plug removably held in one end of the hollow valve body, a fusible member held by the plug and against which said valve stem engages and said valve adapted to move to its open position releasing fire extinguishing material when the plug is rotated in one direction, or when the fusible member melts.

2,166,278
FOOD PRODUCT AND METHOD OF MAKING THE SAME
Sterling W. Alderfer, Akron, Ohio
No Drawing. Application March 25, 1938, Serial No. 198,050
2 Claims. (Cl. 99—193)

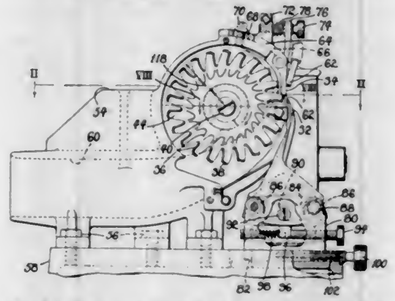
1. The method of making a food product which comprises boiling white potatoes, mashing, whipping and seasoning the same, and then, while still hot, subjecting them to sharp freezing to inhibit hydrolysis therein.

2,166,279
VISIBLE SANITARY SINK TRAP
Attys Bathuel Barwick, Jacksonville, Fla., assignor of fifty-one per cent to Maxey D. Moody, Sr., Jacksonville, Fla.
Application April 17, 1937, Serial No. 137,579
Renewed January 23, 1939
5 Claims. (Cl. 182—19)



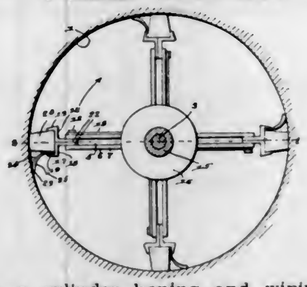
1. A sanitary sink trap comprising a header, a transparent sediment container detachably engaging the header, intake and discharge pipes carried by the header and projecting within the sediment container, the projecting end of the intake pipe being imperforate and having its lower end curved laterally and terminating approximately at the center of the bottom of the sediment container, and a locking bail pivotally mounted on the header and detachably engaging the bottom of the sediment container.

2,166,280
SKIVING MACHINE
Lewis J. Bazzoni, Swampscott, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application December 30, 1937, Serial No. 182,546
3 Claims. (Cl. 12—49.1)



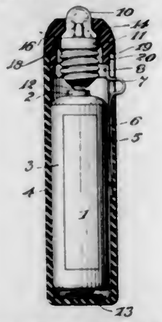
1. A skiving machine having, in combination, a cutter rotatable about an axis, said cutter having a plurality of cutting edges portions of which are equidistant from said axis, means for rotating the cutter, and an anvil having a concave cylindrical face which has an edge approximately engaged by the cylinder of revolution of said portions of the cutting edges and which forms with said cylinder of revolution an opening tapering circumferentially of the cutter, said anvil having another face which is substantially continuous with said first-named face and extends away from the cutter and forms with the surface of revolution of other portions of said cutting edges of the cutter a throat through which work to be skived is fed into said tapered opening.

2,166,281
CYLINDER HONING AND WIPING DEVICE
George C. Beck, Spokane, Wash.
Application December 6, 1937, Serial No. 178,335
9 Claims. (Cl. 51—184.3)



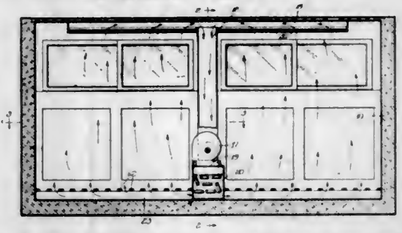
1. In a cylinder honing and wiping device, means for holding a honing element, a resilient wiper carried by said means, and mechanism for advancing said means rotatively in a cylinder with said element and wiper in engagement with the cylinder wall, said wiper initially projecting radially beyond said element and being adapted to yield upon engagement with the cylinder wall and as said element wears down to bring new areas of said wiper into engagement with the cylinder wall.

2,166,282
ELECTRIC LAMP
Walter O. Benjafield, New York, N. Y., assignor to Benjamin Webster, New York, N. Y.
Application June 3, 1936, Serial No. 83,258
Renewed December 13, 1938
6 Claims. (Cl. 240—10.68)



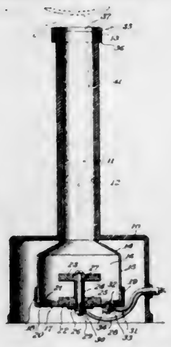
3. An electric battery flashlight comprising in combination an electric lamp having a metal neck, a container of insulating material having some resiliency, a battery in said container, a spring under said battery and tending to move said battery axially to engage the central contacts of the battery and the lamp, a metal spring switch having a part between and exerting pressure on the sides of said battery and container and also having a part accessible on the outer side wall of the container, said switch having another part engageable with the metal neck of the lamp to establish contact between the wall of the battery and said metal neck, an aperture in the wall of the container above said battery in which lies the part of the switch accessible on the outer side wall of the container, and a centrally apertured cap closing the end of said container and part of the aperture and having a socket to prevent outward movement of the electric lamp.

2,166,283
REFRIGERATION
Lyman B. Betz, Hammond, Ind.
Application February 16, 1937, Serial No. 125,987
3 Claims. (Cl. 62—89)



1. A forced convection refrigeration system including a refrigeration compartment, a collection chamber at the upper portion of said refrigeration compartment, a relatively thin pad of granulated activated carbon forming the passageway between said refrigeration compartment and said collection chamber, said carbon pads extending substantially the length of the collection chamber and forming a partition therefor, a cooling unit communicating with said collection chamber and said refrigeration zone, means for producing forced convection of air through said refrigeration zone, carbon pad, collection chamber, and cooling unit, and means for maintaining said cooling unit at a temperature sufficiently high to prevent water vapor in said air from forming ice on said cooling unit.

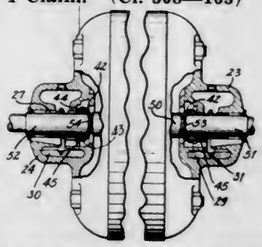
2,166,284
ELECTRIC STERILIZER FOR HYPODERMIC SYRINGES AND THE LIKE
Raymond V. Brandt, Clermont, Iowa
Application March 9, 1938, Serial No. 194,952
5 Claims. (Cl. 21—86)



1. An electrical sterilizer comprising a supporting casing having a substantial widened base portion and a central upstanding tubular column, a metallic liquid container of electrical conductivity having a tubular column extending through the column portion of said casing and an extended heating chamber at its lower portion located

within the base portion of said casing, an electrical heating element within the heating chamber of said liquid container, and a detachable collar element mounted on the upper end of the column portion of said outer casing for supporting an article dependingly within the inner column portion of the device for sterilization.

2,166,285
CUSHIONING DEVICE FOR ELECTRIC MOTORS
Bernard A. Brown, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 19, 1935, Serial No. 2,491
1 Claim. (Cl. 308—163)

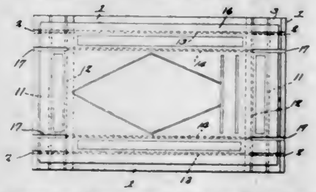


In an electric motor having a rotary armature and frame members providing bearings for the armature, combination of means for cushioning axial movement of the armature shaft along the bearings comprising in combination, a reduced portion on each end of the armature shaft fitting the bearings and providing a shoulder adjacent the armature, a shim disposed on each reduced portion of the shaft and resting against the shoulder, a cup member enclosing a cork member disposed about the reduced shaft portion and press fitted thereon so that the bottom of the cup will engage the shim, and an oil thrower encircling the shaft and interposed between the cork member and the end of the respective bearing member, whereby all axial motion of the shaft is restrained by reason of the cork member.

2,166,286
INTERMOLECULAR LUBRICANT
Robert B. Denham, Indianapolis, Ind.
No Drawing. Application April 15, 1937, Serial No. 137,118
10 Claims. (Cl. 87—9)
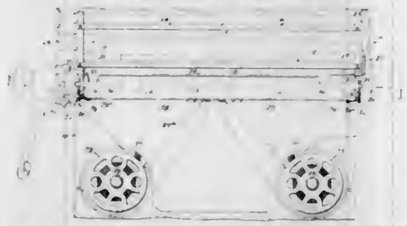
1. A lubricant comprising a lubricating oil and a halogenated lipoid.

2,166,287
METHOD OF MAKING PAPER BOXES OR THE LIKE WITH PRINTED WRAPPERS
Clarence Lloyd Claff, Randolph, Mass.
Application February 4, 1938, Serial No. 188,766
4 Claims. (Cl. 93—36.6)



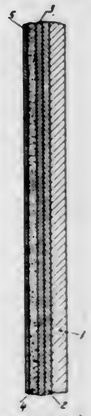
1. The herein described method of producing a paper box with a printed wrapper, which includes the step of printing a wrapper of the desired size and shape, forming opposed alined slots in a thickness of cardboard, applying reenforcing tapes to said thickness where it will bridge the slots, affixing a printed wrapper to the thickness of cardboard and reenforcing tapes thereon, cutting supplemental slots through the wrapper and cardboard at points adjacent to and parallel with the first mentioned slots, and finally folding the cardboard and wrapper along lines alining with the opposed slots to produce side walls and wings of double thickness, the remaining edge portions of the cardboard and wrapper constituting end folds straddling the wings.

2,166,288
DUPLICATING ATTACHMENT FOR TYPEWRITERS
Charles S. Engleman, New York, N. Y., assignor of one-half to Simon Metrik, New York, N. Y.
Application August 20, 1938, Serial No. 225,981
11 Claims. (Cl. 197—153)



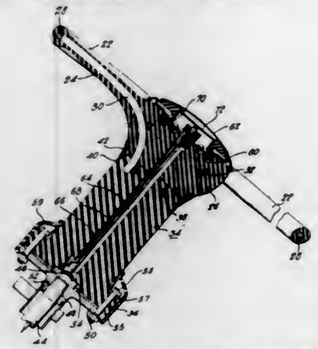
1. In a typewriting machine having a carriage supporting a platen and having a typewriter ribbon and a pair of spools therefor, in combination, a second ribbon, spools for said second ribbon mounted respectively on the first mentioned spools and movable therewith, a swingable frame mounted on said carriage, and means on said frame for guiding said second ribbon.

2,166,289
IMPRESSED-PICTURE MEDIUM
Max Finke, Emmendingen, Germany
Application February 8, 1937, Serial No. 124,594
In Germany August 13, 1936
5 Claims. (Cl. 154—46)



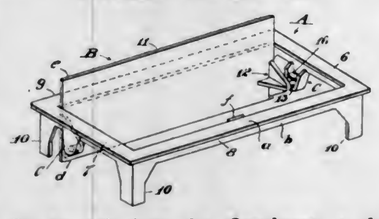
1. A backed metal foil for receiving ornamental designs impressed flat in the surface, having a further metal foil interposed between the metal foil and the paper layer serving as base for the backing, and a plastic adhesive layer between the metal foils as well as an adhesive layer between the intermediate foil and the paper layer.

2,166,290
STEERING WHEEL ASSEMBLY
Harvey D. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 10, 1938, Serial No. 184,129
6 Claims. (Cl. 74—552)



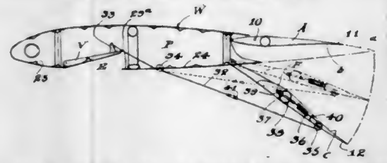
1. A steering wheel assembly comprising in combination, a steering wheel including a hub portion, a rim connected to said hub portion by a plurality of spokes, said rim, spokes and hub portion being fabricated from hard rubber, an elongated second hub portion fabricated from relatively softer rubber than the first mentioned hub portion and vulcanized at one end thereof to said first mentioned hub portion, and an integral flange at the opposite end of the second mentioned hub portion for connecting the steering wheel assembly to a steering shaft.

2,166,291
ASH TRAP
William J. Groth, Los Angeles, Calif.
Application July 21, 1937, Serial No. 154,698
6 Claims. (Cl. 126—242)



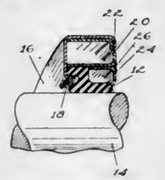
1. In an ash trap for fireplaces, a door, a bracket projecting from one side of said door adjacent each end thereof, a trunnion on each of said brackets, said trunnions extending in horizontal axial alignment with each other and protruding beyond the ends of the door with the axes of said trunnions disposed on planes spaced equi-distant outwardly from the door and inwardly from the rear margin thereof, a horizontal frame having end members and front and rear side members, stirrups extending downwardly from said end members in which said trunnions are pivotally supported; said stirrups being positioned to dispose the axis of said trunnions on a plane spaced downwardly from said frame and on a plane spaced forwardly from the rear frame member corresponding to the aforesaid spacing of said axes relative to the face and rear edge of said door so that on swinging the door to its open position it will abut the rear side member of said frame in an upright position.

2,166,292
AIRPLANE
Randolph F. Hall, Rochester, N. Y.
Application May 5, 1937, Serial No. 140,975
23 Claims. (Cl. 244—42)



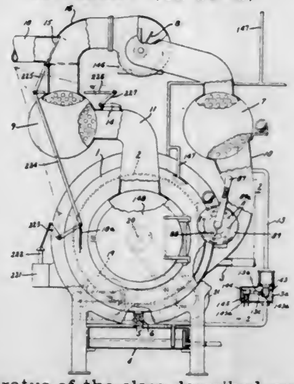
1. In a wing, an angularly displaceable lift varying wing flap in the under side of the wing, the under surface of said flap with the flap in normal raised position forming and defining a portion of the under surface of the basic airfoil section and contour of the wing and having its upper surface formed to provide a spanwise recess in the trailing portion thereof, a control member mounted for angular displacement above said wing flap and in normal neutral control position having its upper surface forming a portion of the upper surface of the basic airfoil section and contour of the wing, and said control member downwardly displaceable from normal neutral control position with the wing in normal raised position whereby said flap upper surface recess portion receives the trailing portion of said control member with the wing flap in normal neutral control position defining a portion of the basic airfoil section and contour for the wing.

2,166,293
FLUID SEAL WITH WELDED HOUSING
William A. Heinze, Chicago, Ill., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois
Application July 29, 1936, Serial No. 93,198
1 Claim. (Cl. 288—3)



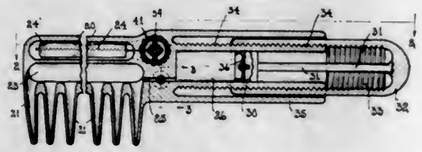
A fluid seal, comprising a flexible packing element L-shaped in cross section and being molded of synthetic rubber, and a metallic supporting housing therefor, said housing including an outer annular shell L-shaped in cross-section and a U-shaped shell inversely fitted in the outer shell with one leg of the U contacting the packing, and with one edge of the outer shell spun in about the corresponding portion of the U-shaped shell to retain the same in position, one edge of the outer shell being bent inwardly to contact a corresponding portion of the packing, and an inner smaller shell L-shaped in cross-section slidably fitted into the U-shaped shell with its inner edge abutting the packing and maintained in position by welding.

2,166,294
FABRIC CLEANING APPARATUS
Russell A. Hetzer, Madeira, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application April 29, 1936, Serial No. 76,930
14 Claims. (Cl. 34—5)



7. Apparatus of the class described, comprising a driving shaft, means for driving said shaft, control means for said shaft-driving means, a source of power supply for said shaft-driving means and said control means, an adjustable control device operatively associated with the source of power and with said shaft-driving means and control means and adapted to be set to provide high speed operation of said shaft in alternately reverse directions or high speed unidirectional operation thereof.

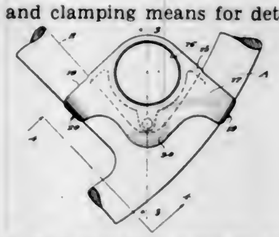
2,166,295
TONIC AND OIL APPLICATOR
Edwin J. Hewitt, Omaha, Nebr.
Application March 5, 1938, Serial No. 194,138
7 Claims. (Cl. 132—13)



1. A scalp treating device comprising a comb provided with a plurality of hollow teeth adapted to contain a selected scalp medicament, said teeth each having an outlet port at its end, a resistance coil in said comb adapted to be connected to a source of electrical energy for heating said comb and medicament, a handle secured to the comb having a compartment therein for receiving air under pressure, said handle having a passageway between said compartment and said teeth, a release valve for normally closing said passageway, and means associated with said handle for supplying air under pressure to said compartment.

2,166,296
STEERING WHEEL ATTACHMENT
Daniel S. Hoover, Mansfield, Ohio
Application August 1, 1938, Serial No. 222,546
9 Claims. (Cl. 74—557)

1. A steering wheel attachment of the class described comprising a detachable digit-engaging member having a digit-receiving aperture formed therein adapted to receive a thumb, finger and the like, and clamping means for detachably se-

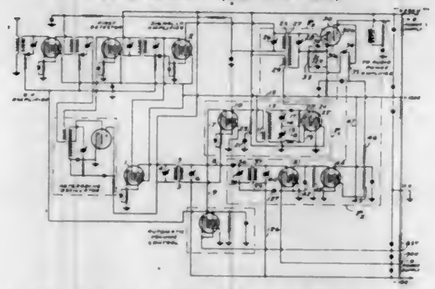


curing the digit-engaging member to a steering wheel.

2,166,297
PROCESS FOR THE TREATMENT OF GELATIN AND GLUE
René Jules Fernand Jacquet, Cortenberg, Belgium, assignor to Tannerie & Maroquinerie Belges (Société Anonyme), Saventhem, near Brussels, Belgium, a corporation of Belgium
No Drawing. Application July 23, 1938, Serial No. 220,985. In Belgium August 12, 1937
5 Claims. (Cl. 260—118)

1. Process for decoloration and clarification of gelatin which comprises treating the gelatin with hydrated aluminum oxide in a neutral solution having a concentration of 3 to 11% and at a temperature between 55° C. and 75° C.

2,166,298
METHOD AND APPARATUS FOR RADIO RECEPTION
Kenneth W. Jarvis, Chicago, Ill.
Application November 11, 1933, Serial No. 697,592
36 Claims. (Cl. 250—20)

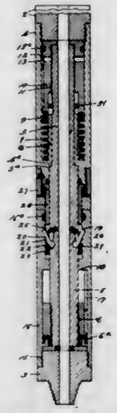


1. The method of receiving a signal modulated energy carrier which consists in combining therewith a local energy carrier, detecting the combined carrier energies to obtain the modulating signal, transmitting said modulating signal over an extended band of modulation frequencies, and preventing transmission of the modulating signal when the frequency of the incoming modulated energy carrier differs from that of the local energy carrier by an amount corresponding to beat frequencies included within the said extended transmission band of modulation frequencies.

2,166,299
ROTARY ADJUSTABLE-TENSION JAR MECHANISM
Samuel J. Kennedy and James R. Pierson, Lynwood, Calif.
Application September 20, 1938, Serial No. 230,810
20 Claims. (Cl. 255—27)

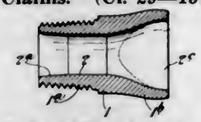
1. A jar mechanism including a mandrel having a hammer head, a sleeve having an anvil

part to be struck by the hammer, latches normally locking the mandrel head and the anvil in spaced relation, a tension device sliding and seating on the mandrel and including a resilient means forcing said device to its mandrel seat, and trip means actuated by the tension device as it is moved from its mandrel seat to



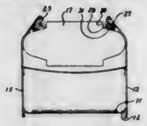
trip the locking means and release the hammer mandrel said trip means including a member fixed to the said device and movable into engagement with the latches to trip them; said device and resilient means and the mandrel moving up as a unit by tension to cause the hammer to strike the anvil.

2,166,300
METHOD OF MAKING SPRAY NOZZLES
Joseph F. Komar, Youngstown, Ohio
Application August 15, 1936, Serial No. 96,293
3 Claims. (Cl. 29—157)



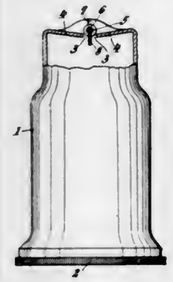
1. A method of making a spray nozzle, including boring a hole axially through a solid cylindrical metal blank, machining the inside of said blank to flare an end portion of said hole and flattening the adjacent end portion of said blank so as to flatten said portion of said hole and form the opening to the latter into a slot.

2,166,301
VENETIAN BLIND TAPE HOLDER
Harry Konen, Newport, Ky., assignor to W. J. Baker Co., Inc., Newport, Ky., a corporation of Kentucky
Application November 15, 1937, Serial No. 174,628
2 Claims. (Cl. 156—17)



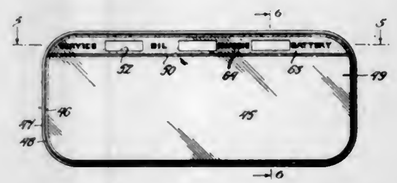
1. In a device of the class described the combination of a bar having a longitudinally extending groove formed therein whereby to provide adjacent angularly disposed faces thereon, a U-shaped staple having a generally elongated base portion, mounted on the bar in said groove, with the staple base in substantial parallelism with said adjacent faces and spaced from said bar, a flexible strap of a width slightly less than the length of the base of the staple, and a U-shaped clip mounted on an end of the strap, and being of a length greater than the length of the staple base, and of a thickness less than the space between the staple base and the bar, the arms of the clip receiving the strap end between them, said clip being held in contact upon one of the faces of the groove by a portion of the strap extending beyond the staple.

2,166,302
CONDIMENT DISPENSER
Franz Köstenberger, Vienna, Germany
Application April 14, 1938, Serial No. 202,095
In Austria September 4, 1937
2 Claims. (Cl. 65—45)



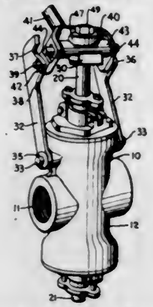
1. A condiment dispenser, comprising in combination a body, a discharge slot in the top of said body, a roller-comb with circumferential grooves extending through said slot and rotatably mounted in said body, the outer diameter of said roller-comb substantially corresponding to the width of said slot, and a comb immovably secured in said body underneath said roller-comb, the in teeth of said immovable comb corresponding in size to and engaging the tooth-gaps of said roller-comb.

2,166,303
MIRROR
William La Hodny and Paul Bertell, Buffalo, N. Y., assignors to Standard Mirror Company, Buffalo, N. Y., a corporation of New York
Application June 3, 1937, Serial No. 146,219
8 Claims. (Cl. 35—62)



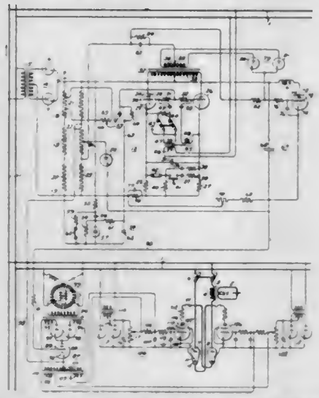
1. A mirror, comprising a glass panel having silvered and unsilvered portions, a flat backing member for said panel and bearing printed matter on its front face, and means non-adhesively holding said printed matter in contact with the rear face of said unsilvered portion of the glass panel whereby said printed matter is visible through said unsilvered portion and appears to be imprinted directly on said glass panel.

2,166,304
VALVE-OPERATING MECHANISM
Milton P. Laurent, Houston, Tex., assignor to W. K. M. Company, Incorporated, Houston, Tex., a corporation of Texas
Application October 20, 1936, Serial No. 106,543
3 Claims. (Cl. 251—52)



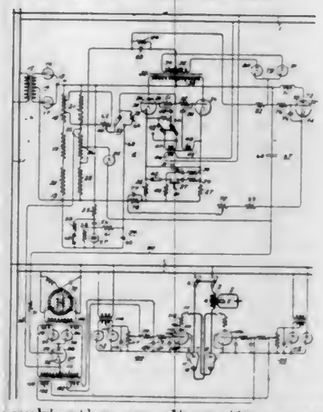
1. A valve operating mechanism including in combination, a casing and a stem longitudinally reciprocative in the casing, said stem projected outside the casing and limited in stroke, a cross-head mounted on said stem to move longitudinally thereof, opposed elastic members on the stem on opposite sides of the cross-head and normally equalized to support the cross-head neutrally therebetween, and toggle means connected to the casing and said cross-head for moving the stem in either longitudinal direction whereby said elastic members are alternately compressed to hold the stem in either of its operated positions and the toggle means releasably locked in its operated condition.

2,166,305
THYRATRON WELDING CONTROL
Louis G. Levoy, Jr., Ballston Lake, and George W. Garman, Scotia, N. Y., assignors to General Electric Company, a corporation of New York
Application June 2, 1937, Serial No. 146,020
8 Claims. (Cl. 250—27)



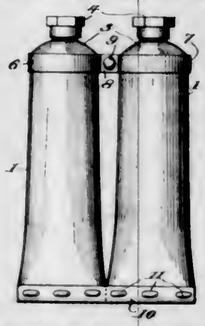
1. In combination, an alternating current supply circuit, a load circuit, electric valve translating apparatus connected between said circuits for effecting periodic energization of said load circuit by transmitting trains of electrical impulses thereto, means for generating a periodic electrical quantity to control the periodicity of said trains of impulses transmitted to said load circuit, and independent means responsive to said electrical quantity for generating a periodic voltage to control the ratio of the intervals of conduction to the intervals of nonconduction of said electric valve translating apparatus.

2,166,306
ELECTRIC VALVE CIRCUIT
Louis G. Levoy, Jr., Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York
Application June 2, 1937, Serial No. 146,021
12 Claims. (Cl. 250—27)



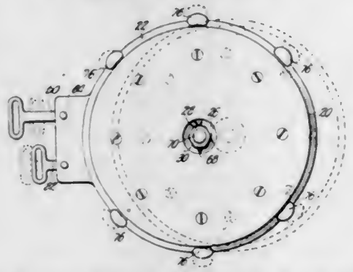
4. In combination, an alternating current supply circuit, a load circuit, electric valve translating apparatus connected between said circuits for effecting periodic energization of said load circuit, a circuit for generating a periodic electrical quantity to control the periodicity of the energization of said load circuit, a circuit comprising a source of direct current, a capacitance and an electric valve responsive to said electrical quantity for generating a periodic voltage to control the ratio of the intervals of conduction to the intervals of nonconduction of said electric valve translating apparatus, and means comprising a unidirectional conducting device for controlling the magnitude of said periodic voltage.

2,166,307
CONNECTED COLLAPSIBLE TWIN TUBES
Lewis L. Libby, Newark, N. J.
Application October 19, 1938, Serial No. 235,837
2 Claims. (Cl. 221—60)



1. In combination, a pair of collapsible tubes, each including a cylindrical body and a flattened crimped end, means including a collar portion for each tube for disposal about the bodies thereof, parallel means bridging the collar portions and connecting the same together, means mounted in the parallel means for drawing the same together and the collars in binding engagement with the bodies, means to be clamped on the flattened ends of said tubes for cooperation with the first means for detachably securing the tubes together in longitudinal side by side parallel relation.

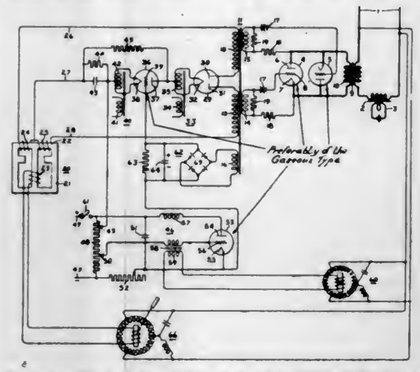
2,166,308
FIFTH WHEEL ASSEMBLY
Otis A. Logan, Kansas City, Mo.
Application January 10, 1938, Serial No. 184,298
5 Claims. (Cl. 280—33.1)



1. In a fifth wheel assembly for a tractor and a trailer having a trailer plate provided with an annular periphery, a king pin depending from the lower face of the said plate at the axis thereof, a tractor plate having an annular periphery and provided with a radially disposed slot for receiving the king pin and means releasably holding the king pin in the slot on the axis of the trailer plate and tractor plate when the same are in superimposed operative relation, a latching means comprising a plurality of dogs mounted on the tractor plate at the periphery thereof, said dogs extending upwardly for engagement along the annular periphery of said trailer plate and over the upper face thereof when in operative position to preclude radial and axial displacement thereof but permitting relative rotation of the plates; and mechanism on the tractor plate for moving said dogs to and from the operative position, said mechanism having an outwardly extending handle and means for securing the handle and mechanism in the said operative position.

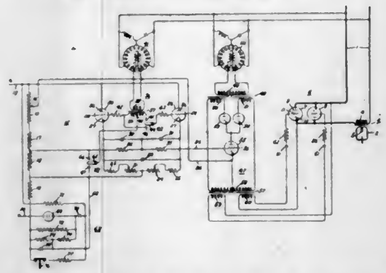
2,166,309
ELECTRIC VALVE CIRCUIT
Harold W. Lord, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 24, 1937, Serial No. 138,809
Renewed February 11, 1938
16 Claims. (Cl. 250—27)

1. In combination, an alternating current supply circuit, an alternating current load circuit, electric valve means interposed therebetween for controlling the transfer of energy from said supply circuit to said load circuit and being provided with a control member for controlling the conductivity thereof, and a control circuit for energizing said control member comprising a source of alternating voltage of peaked wave form, an inductive device having a pair of primary windings and a secondary winding connected to said control member, a pair of circuits energized from said source of voltage of peaked wave form each associated with a different one of said primary windings and each including a unidirectional conducting path and arranged to transmit current alternately, an electronic discharge device of the type employing an ionizable medium and having a control member and being connected in series



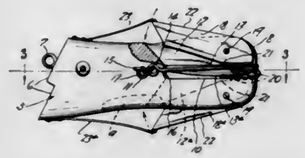
relation with said unidirectional conducting paths for controlling the transfer of current therethrough and means connected across said electronic discharge device to render said device nonconductive at the end of each half cycle of conduction to permit said control member to obtain control.

2,166,310
ELECTRIC VALVE CIRCUIT
Harold W. Lord, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 2, 1937, Serial No. 146,019
30 Claims. (Cl. 250—27)



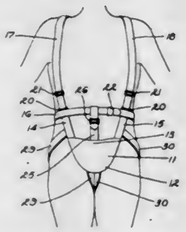
1. In combination, an alternating current supply circuit, a load circuit, electric translating apparatus interposed between said circuits for controlling the transfer of energy therebetween including a pair of oppositely disposed electric valves, and means for supplying a periodic control voltage to render said electric valves conductive periodically for predetermined intervals of time including a source of direct current, a pair of parallel electric paths connected to said source each comprising a serially connected electric valve and an impedance element, a current commutating capacitance connected across said paths and an excitation circuit for the electric valves in said parallel paths for controlling the conductivities thereof to initiate the generation of said periodic control voltage so that consecutive intervals of conduction of said first mentioned electric valves begin during half cycles of voltage of opposite polarity.

2,166,311
WEEDLESS BAIT
Harold Lund, Minneapolis, Minn.
Application August 23, 1937, Serial No. 160,358
6 Claims. (Cl. 43—35)



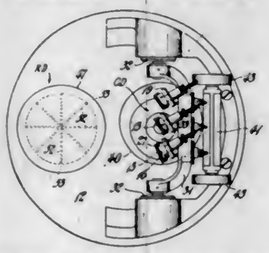
1. In a bait, a body member having a slot, hooks adjustably mounted by their frontal ends on the body member and adapted to swing into the said slot, a spring connected to the frontal ends of the hooks and adapted to normally urge the hooks outward from the slot, pressure responsive members pivotally mounted adjacent their rear ends to the body member, and means on the rear ends of the members for engaging and releasably retaining the hooks in the slot when the frontal ends of the members are swung outwardly from the body member.

2,166,312
MATERNITY SUPPORT
Henry J. Lunney, Los Angeles, Calif.
Application December 23, 1936, Serial No. 117,256
3 Claims. (Cl. 2—41)



1. In a support of the character described, the combination of: a member formed to cup only the lower frontal portion of the abdomen of the wearer so as not to prevent outward expansion of the abdomen; a waist band extending entirely around the body above said cup member; extension members disposed on opposite sides of the abdomen and connecting said waist band with the side portions of said cup member; suspension means arranged to support the weight of the abdomen directly from the shoulders, said means comprising a pair of adjustable straps connected at the sides of said waist band adjacent said extension members and arranged to extend over the shoulders, crossing on the back of the wearer, and respectively connecting with said waist band at relatively spaced points rearwardly from said extension members; a front band connected to said member and extending upward to said waist band; adjustment means associated with said front band allowing lengthening thereof to properly position said cup member on the lower frontal portion of the abdomen; and a pair of elastic strips connected to said member adjacent said extension members and extending around and between the legs of the wearer and connected to the lower portion of said member at the center thereof to hold said member in position.

2,166,313
TELEVISION SYSTEM
Irwin Leonard Maguire, Elwood, Victoria, Australia
Application February 15, 1936, Serial No. 64,153
In Australia February 20, 1935
11 Claims. (Cl. 178—7.6)



1. In television transmission and receiving systems having a screen, a scanning device comprising a deflector unit consisting of a plurality of deflecting surfaces mounted on a common oscillatory axis normal to the plane of oscillation, means for projecting a single beam of light on said deflecting surfaces, said unit operating to divide said beam into a plurality of light beams, and a rotating deflector unit consisting of a plurality of deflectors presenting deflecting surfaces radially disposed about and arranged along a common axis, said rotating deflector unit being rotatable on an axis located at right angles to said common oscillatory axis, whereby said oscillatory and rotating deflecting surfaces coact to cause the beams of light deflected therefrom to trace in cyclical order a series of substantially parallel lines on a viewing screen.

2,166,314
PREPARATION OF DETERGENTS
Wilfred S. Martin, Norwood, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application August 13, 1935, Serial No. 35,983
12 Claims. (Cl. 87—5)

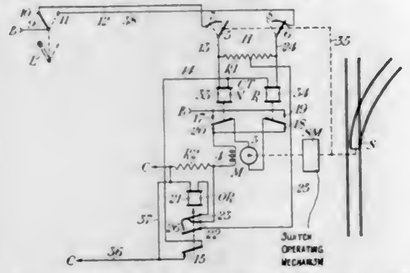
1. The process of improving the sudsing and detergent properties of a water-soluble salt of an alkyl sulfuric acid containing eight to eighteen carbon atoms in the alkyl radical which comprises adjusting the unsulfated aliphatic alcohol content of same to an amount sufficient to improve said properties but not below about 3 parts or in excess of 75 parts unsulfated aliphatic alcohol to 100 parts water-soluble salt, said unsulfated aliphatic alcohol being saturated and being taken from the group consisting of primary saturated aliphatic alcohols containing eight to fourteen carbon atoms in the molecule and secondary aliphatic saturated alcohols containing eight to twenty-five carbon atoms in the molecule.

2,166,315
DETERGENT AND PREPARATION THEREOF
Wilfred S. Martin, Cincinnati, Ohio, assignor to The Procter & Gamble Company, Cincinnati, Ohio, a corporation of Ohio
No Drawing. Application December 23, 1938, Serial No. 247,477
12 Claims. (Cl. 87—5)

7. A spray dried alkyl sulfate detergent of improved sudsing and detergent characteristics comprising as the essential ingredient a mixture of a water-soluble salt of an alkyl sulfuric acid

of a normal primary aliphatic alcohol having eight to eighteen carbon atoms in the molecule and an unsulfated saturated higher alcohol taken from the group consisting of saturated normal primary aliphatic alcohols having eight to fourteen carbon atoms in the molecule and secondary saturated aliphatic alcohols containing eight to twenty-five carbon atoms in the molecule, the said product being free flowing and substantially completely composed of discrete particles and containing in the range of four to twelve parts unsulfated alcohol to 100 parts said salt.

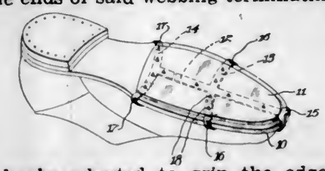
2,166,316
RAILWAY TRAFFIC CONTROLLING APPARATUS
Bernard E. O'Hagan, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 16, 1937, Serial No. 180,182
8 Claims. (Cl. 172—179)



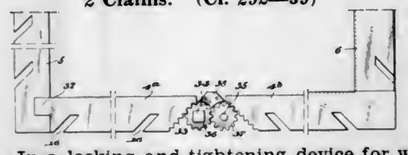
8. In combination, a reversible electric motor, a normal and a reverse magnet, a normal motor operating circuit including a front contact of the normal magnet, a reverse motor operating circuit including a front contact of the reverse magnet, an overload relay, a normal control wire connected with one terminal of the winding of the normal magnet, a reverse control wire connected with one terminal of the winding of the reverse magnet, means including a back contact of the relay to connect the other terminal of each of said windings with a common return wire, a circuit controller operative to connect a direct current source between either the normal or reverse control wire and the common wire, a first resistor common to both of said motor circuits, means including a back contact of the relay to connect the winding of the relay across said resistor to pick up the relay when an overload current flows in a motor circuit for interrupting the overloaded circuit by deenergizing the corresponding magnet, a second and a third resistor connected with said normal and reverse control wires respectively, a first stick circuit means including a front contact of the relay and said second resistor to connect said winding of the relay between the normal control wire and the common return wire, and a second stick circuit means including another front contact of the relay and said third resistor to connect said winding of the relay between the reverse control wire and the common return wire.

2,166,317
AUXILIARY CALKED SOLE FOR SHOES
John Opyt, Chicago, Ill.
Application August 19, 1938, Serial No. 225,787
2 Claims. (Cl. 36—7.7)

1. A detachable auxiliary sole for shoes, comprising a body made of elastic rubber, a metal webbing imbedded therein consisting of a longitudinal main stem and disconnected cross-members, the ends of said webbing terminating in external hooks adapted to grip the edge of the shoe sole, and cleats mounted on said webbing and projecting above the surface of the rubber body.

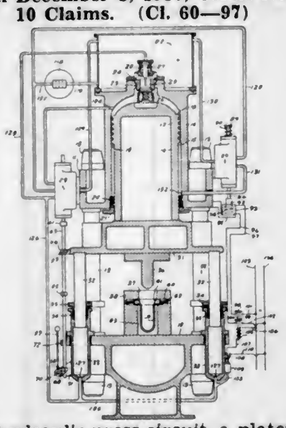


2,166,318
LOCKING AND TIGHTENING MEANS
Eric Sigfrid Persson, Malmo, Sweden
Application November 10, 1937, Serial No. 173,906
In Sweden June 29, 1937
2 Claims. (Cl. 292—39)



1. In a locking and tightening device for windows, bars displaceably mounted along three edges of said window, guiding means for said bars, interconnecting means at the ends of said bars, the intermediate bar comprising two parts, each of the inner ends of said parts being provided with a toothed rack positioned at an angle to the direction of length of the bars, two gear wheels in the space between said toothed racks, one of said gear wheels being in engagement with the other gear wheel and with one of the toothed racks, and an operating handle connected to one of said gear wheels.

2,166,319
HYDRAULIC PRESS WITH VARIABLE RETRACTION FOR PLATENS
Paul C. Pocock, Marion, and Victor S. Shaw, Mount Gilead, Ohio, assignors to The Hydraulic Press Corp., Inc., Wilmington, Del., a corporation of Delaware
Application December 8, 1937, Serial No. 178,772
10 Claims. (Cl. 60—97)



1. In a hydraulic press circuit, a platen, a main plunger connected thereto, main retraction

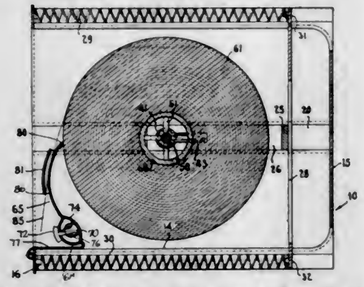
means for retracting said main plunger, and auxiliary retraction means selectively insertible in said circuit during a minor part of the retraction stroke of said main retraction means for temporarily amplifying the force of said main retraction means.

2,166,320

ADJUSTABLE HOLDER FOR ROLL MATERIAL

Bohdan Posatsky, Woodside, Long Island, N. Y.

Application January 20, 1938, Serial No. 185,990
5 Claims. (Cl. 242—55.5)



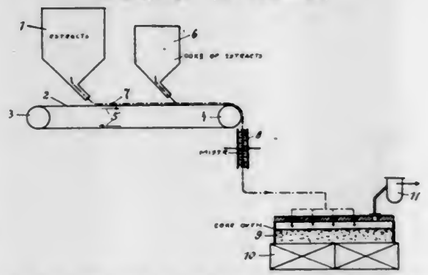
1. A toilet fixture of the type described comprising a box-like member having sides, top, bottom and back portions and a flanged opening near the front thereof, channels disposed in substantial parallelism positioned in opposite sides of said box member, a spring-pressed U-shaped member slidably received in said channels with forwardly extending arms and normally urged toward the front open portion of said box member, a spindle freely rotatably but removably journalled in the front portion of said arms, and a lap firmly but removably connected to portions of sides of said box-like member and extending upwardly across the front open portion thereof whereby a roll of material positioned on said spindle is normally pressed against said lap.

2,166,321

METHOD OF PRODUCING SEMICOKE OR COKE FROM CARBONIZABLE SOLID FUEL MATERIAL

Alfred Pott, Essen-Ruhr, Germany

Application October 16, 1935, Serial No. 45,306
In Germany October 17, 1934
5 Claims. (Cl. 202—33)



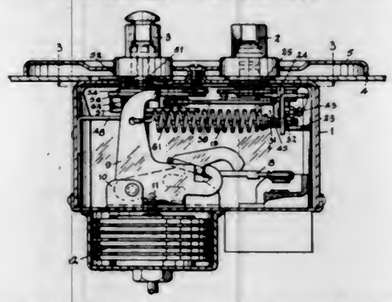
1. The method of producing coke from solid carbonizable fuel material, substantially consisting in first producing carbonizable extracts from said material by heat treatment in the presence of solvents, then treating said extracts while dissolved with diluted inorganic acids, and finally coking said extracts in the absence of said solvents and acids.

2,166,322

REFRIGERATOR CONTROL SWITCH

Estel C. Raney, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio

Application May 13, 1935, Serial No. 21,163
8 Claims. (Cl. 200—83)



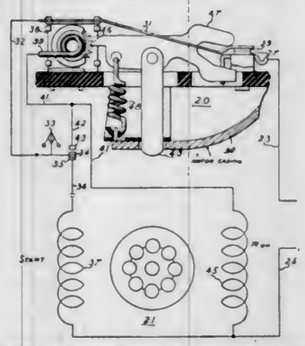
1. In a refrigerator control switch, a thermo-pressure responsive means for operating the switch, a resilient member for counter-acting the pressure of the pressure responsive means, adjusting means for varying the pressure of the resilient member to produce normal operating cycles between desired fixed temperature limits, mechanical means manually operable to engage the resilient member and release the resilient member from the adjusting means and to engage the pressure responsive means to decrease the counter-acting pressure on the pressure responsive means to produce definite switch opening pressure below the said normal pressure and temperature.

2,166,323

CONTROL APPARATUS

Estel C. Raney, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio

Application June 12, 1936, Serial No. 84,801
2 Claims. (Cl. 172—279)



1. In combination with a motor having a starting winding and a running winding, of a protector for the motor including a circuit breaker connected in series with both of said windings, electrically energized means for actuating the circuit breaker and connected in series with the running winding, said running winding and electrically energized means being in parallel circuit relation with the starting winding, and means responsive to normal operation of the motor for causing deenergization of the starting winding and said electrically energized means and responsive to abnormal operation of the motor for causing energization of the starting winding and the said electrically energized means.

2,166,324

RUBBER COMPOSITION AND PROCESS

Willis E. Reichard, Elyria, and Robert R. Olin, Akron, Ohio

No Drawing. Application July 10, 1937, Serial No. 153,060
8 Claims. (Cl. 106—23)

1. The process of providing an improved composition of material consisting in separately preparing an aqueous dispersion of uncoagulated vulcanized rubber latex and mixing it with unvulcanized balata solution to form a substantially homogeneous mixture in the absence of sufficient balata vulcanizing materials to promote vulcanization of the balata.

2,166,325

TREATMENT OF CELLULOSIC MATERIAL

Herbert Rein, Leipzig, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application November 21, 1935, Serial No. 50,870. In Germany November 23, 1934
2 Claims. (Cl. 91—68)

1. In a process of improving the resistance to creasing of cellulose filaments by a treatment with an artificial resin the step of soaking said filaments in a liquid containing wax, prior to the treatment with an artificial resin.

2,166,326

METHOD OF DAMPING VIBRATORY MEMBERS

Robert R. Riesz, Mount Vernon, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application June 25, 1936, Serial No. 87,205
3 Claims. (Cl. 179—180)



1. In combination, a rigid support, a spring member clamped at one portion thereof to said support, and means for mechanically damping said spring member comprising a thin coating of lead electroplated on the surface thereof between its clamped portion and the portion thereof having the maximum amplitude of vibration, that portion of said surface having the maximum amplitude of vibration being uncoated.

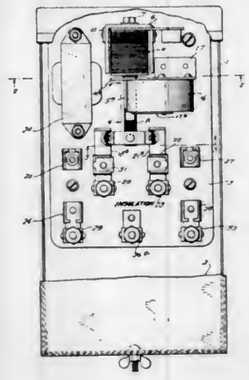
2,166,327

RELAY CONSTRUCTION

Albert B. Rypinski, Laurelton, N. Y., and Charles A. Bay, Morristown, N. J., assignors to Metropolitan Device Corporation, a corporation of New York

Application April 26, 1937, Serial No. 138,942
4 Claims. (Cl. 200—93)

1. A relay of the type described comprising a base, a bracket mounted on the base, a U-shaped element pivotally mounted in the bracket, an electromagnet mounted in the U-shaped element, the electromagnet having a core extending axially from one end thereof, a pair of electrical contacts resiliently mounted on the extended core adjacent the end thereof, a pair of stationary contacts mounted on the base and positioned to be engaged by the contacts carried by the core of the electromagnet, a permanent magnet em-



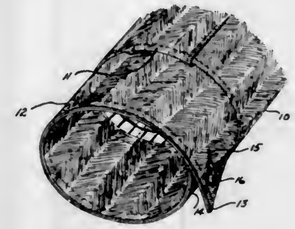
bracing the extended core of the electromagnet and positioned so that the extended core lies in the air gap thereof, and a keeper on the permanent magnet.

2,166,328

RAINCOAT SLEEVE

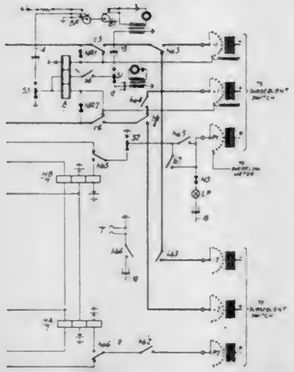
Benjamin B. Spatz, New York, N. Y.

Application August 30, 1938, Serial No. 227,447
3 Claims. (Cl. 2—269)



1. In a garment of the class described, a sleeve having a cuff portion sewed thereto along a predetermined line, the said cuff portion having flaring ends substantially aligned when said sleeve and cuff are folded flat and said cuff is fully extended, said cuff when flat having, in effect, an inside half and an outside half, the inside half of the cuff having a button sewed thereto in its flared end region and facing towards the garment, the other half of the cuff having a button hole in its flared end region, the button of the cuff being insertible through said button hole to form a barrel-type cuff and with said flaring ends overlapping substantially, and with the button then facing away from the garment, the said cuff being foldable upwards along the predetermined line on which it is secured to the sleeve to form a French type cuff, this bringing the flaring ends into substantial alignment but with the button facing away from the garment but covered by the other half of the cuff, the said button being then insertible through said button hole to complete the cuff and with the button outside.

2,166,329
TELEPHONE SYSTEM
Reginald Taylor and George Thomas Baker, Liverpool, England, assignors to Associated Telephone & Telegraph Company, Chicago, Ill., a corporation of Delaware
Application January 28, 1937, Serial No. 122,728
In Great Britain January 29, 1936
5 Claims. (Cl. 179—16)



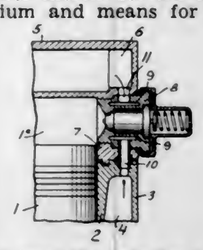
1. In a telephone system, a line relay, a second relay, a source of battery potential, a unidirectional rectifier unit, means controlled by the energization of said line relay for completing and energizing circuit for said second relay, means controlled responsive to the energization of said second relay for completing a locking circuit for itself exclusive of said line relay controlled means, said energizing and locking circuits including in series said second relay, said rectifier unit, and said source of potential, and circuit connections such that said second relay is shunted by said line relay when the latter de-energizes.

2,166,330
METHOD OF BLEACHING
George P. Vincent, New York, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application September 12, 1938, Serial No. 229,601
10 Claims. (Cl. 8—105)

1. The method of bleaching cellulosic materials without substantial degradation of the fiber which comprises suspending the material to be bleached in an aqueous medium and introducing a mixture of chlorine and chlorine dioxide into the aqueous suspension.

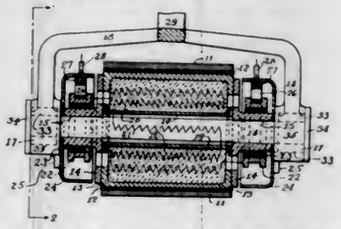
2,166,331
APPARATUS FOR COOLING FUEL-VALVES FOR INTERNAL COMBUSTION ENGINES
Erwin Waeber, Seuzach, Switzerland, assignor to Sulzer Frères, Société Anonyme, Winterthur, Switzerland
Application January 15, 1937, Serial No. 120,667
In Switzerland July 27, 1936
6 Claims. (Cl. 123—177)

1. Internal combustion engine apparatus comprising a cylinder liner, a cylinder jacket, said liner and jacket being mounted in spaced relation thereby forming a cylinder-cooling space for a cooling medium, an injection fuel-valve operatively associated therewith, a duct for the circulation therein of a cooling medium embracing the exterior part of the valve, a cylinder head having a chamber therein for the circulation of a cooling medium and means for passing the



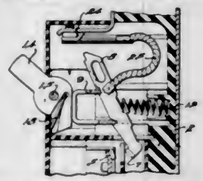
cooling medium from the cylinder-cooling space through the duct and into the chamber.

2,166,332
PRESSING IRON FOR VELVET AND THE LIKE
Eleanor Widder, Forest Hills Gardens, Long Island, N. Y.
Application July 12, 1937, Serial No. 153,105
3 Claims. (Cl. 219—25)



1. In a pressing iron the combination of a U shaped bracket having a casing at each of its ends, a handle extending from said bracket, a spindle having its ends rotatably supported in said casings, a hub fastened adjacent to each end of said spindle bearing against one of the casings and each hub having a hub plate integral therewith, a cylindrical metal carrier having flanges at its ends coaxial with said spindle, the flanges of the carrier fastened to said hub plates, a cylindrical shell mounted on said carrier, prongs radially extending from said shell and electric means to heat said carrier.

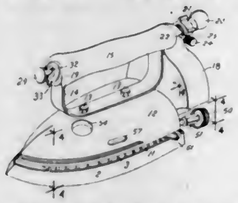
2,166,333
FLEXIBLE LEAD CONNECTION
Wallace T. Allen, Royal Oak, and Olav Maseng, Detroit, Mich., assignors to Square D Company, Detroit, Mich., a corporation of Michigan
Application April 5, 1937, Serial No. 135,013
7 Claims. (Cl. 219—12)



7. The method of attaching the end of a stranded, flexible conductor, having individual strands of a fineness making the conductor susceptible to a substantial diffusion of molten metal along the strands by capillary action from the point of application, to a substantially flat surface of a solid part in electrically conducting

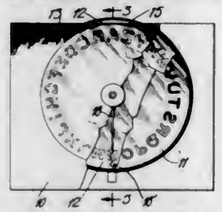
relation without the use of a terminal or lug which comprises placing a portion of solid solder between said conductor end and said flat surface, pressing said conductor end, solder portion and flat surface together between electrodes, and passing current between said electrodes to fuse at least a part of said solder portion, said at least a part of said solder portion being so small in volume as to inhibit the diffusion or flow of solder up the conductor strands by capillary action, thus preventing stiffening of the conductor adjacent to the joint, while providing for flow of solder into the conductor strands at the joint, thus binding them together and to said solid part.

2,166,334
LAUNDRY IRON
James Seldon Baker, Sydney, Australia, assignor to The Mantle Lamp Company of America, Chicago, Ill., a corporation of Illinois
Application July 15, 1937, Serial No. 153,809
In Australia July 17, 1936
10 Claims. (Cl. 158—23.2)



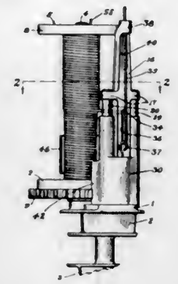
1. A laundry iron including in combination a sole plate, a liquid-fuel reservoir supported at one end of and spaced from said sole plate, a delivery tube extending from said reservoir and above said sole plate, and a preheating cup having its axis substantially parallel with and above said sole plate and opening towards said delivery tube, whereby with said sole plate in vertical position the flame from preheating material in said cup will heat said delivery tube.

2,166,335
STEREOPTICON SLIDE
Murray Banner, Brooklyn, N. Y.
Application February 26, 1937, Serial No. 127,823
5 Claims. (Cl. 88—26)



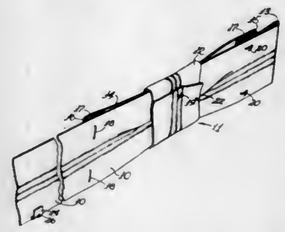
1. A stereopticon slide of the character described comprising an opaque frame formed with a circular opening which extends thru the upper side of the frame, a plate of transparent material carried by said frame, means carried by said plate for supporting a pair of discs, a pair of discs rotatably mounted on said means one of which comprises a dial located between them, means for holding said discs together so that they may be rotated in unison, said discs extending thru said circular opening in the upper side of the frame to permit them to be manually rotated, and means for indicating a character on the dial when it is at rest.

2,166,336
BRAIDING MACHINE CARRIER
Charles S. Barningham, Edgewood, R. I., assignor to New England Butt Company, Providence, R. I., a corporation of Rhode Island
Application November 3, 1938, Serial No. 238,517
1 Claim. (Cl. 96—15)



In a direct acting base tension release and locking means for vertical strand carriers, a vertical spindle member, a strand carrier member rotatably mounted on said spindle member and provided with a ratchet member non-rotatably secured to the base thereof having ratchet teeth projecting outwardly radially of the ratchet member, a strand engaging weight tension member provided with a pawl mounted for engagement with the teeth of said ratchet member, said weight tension member being movable in substantial parallelism with said spindle, guide means for said weight tension member having spring means engaging said weight tension member for constantly urging the same downwardly to bring the pawl into engagement with said ratchet teeth, and stop means associated with said guide means for limiting the upward movement of said weight tension member and acting in conjunction with said spring means to insure quick reengagement of said pawl with a succeeding ratchet tooth after its disengagement from a preceding tooth.

2,166,337
DECORATIVE BAND
Seraphine F. Bauwens, Chicago, Ill.
Application December 30, 1936, Serial No. 118,205
5 Claims. (Cl. 2—179)



1. A decorative band having an ornamental bow comprising an elongated strip of ribbon material reversely folded adjacent one end to provide a rearwardly extending section of slightly greater length than the finished bow, the open end of said section being folded under to conceal the same and to define one of the loops of the bow, a double fold in said section adjacent the other end of the section defining the other

loop of the bow, stiffening members disposed within said loops to impart transverse rigidity thereto, and means for permanently holding said members and said loops in place comprising staple fasteners extending through the members, the inner runs of the loops and the adjacent portions of the band.

2,166,338
DEEP-DRAWING ZINC ALLOY
Kurt Bayer, Magdeburg, and Arthur Burkhardt, Berlin-Lichterfelde, West, Germany, assignors to Georg von Giesche's Erben, Breslau, Germany, a corporation of Germany
No Drawing. Application October 25, 1937, Serial No. 170,854. In Germany December 4, 1936
2 Claims. (Cl. 75—178)

1. An alloy containing from 4 to 5.5 per cent of copper, from a small but effective amount up to 0.2 per cent of aluminium, the remainder being zinc practically free from magnesium and cadmium.

2,166,339
MANUFACTURE OF YEAST
Harold H. Browne, Brooklyn, N. Y.
No Drawing. Application February 23, 1937, Serial No. 127,171
10 Claims. (Cl. 195—90)

9. A process for manufacturing yeast, comprising propagating yeast in a yeast nutrient solution and adding compounds of guanidine and hypo-phosphoric acid together with guanidinase containing material to said nutrient solution during the propagating period.

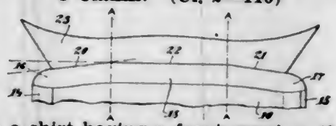
2,166,340
PLASTIC ZINC ALLOY OF CONSTANT DIMENSIONS
Arthur Burkhardt, Berlin-Lichterfelde, Germany, assignor to Georg von Giesche's Erben, Breslau, Germany, a corporation of Germany
No Drawing. Application October 25, 1937, Serial No. 170,853. In Germany November 6, 1936
4 Claims. (Cl. 75—178)

1. A plastic zinc alloy containing 2 to 8% copper and about 0.09 to about 0.45% aluminum, the contents of copper and aluminum having a mutual proportion of 18 to 22 parts of copper to 1 part of aluminum, the remainder zinc.

2,166,341
MACHINABLE PLASTIC ZINC ALLOY
Arthur Burkhardt, Berlin-Lichterfelde, and Wolfgang Wolf, Magdeburg, Germany, assignors to Georg von Giesche's Erben, Breslau, Germany, a corporation of Germany
No Drawing. Application October 25, 1937, Serial No. 170,855. In Germany January 5, 1937
4 Claims. (Cl. 75—178)

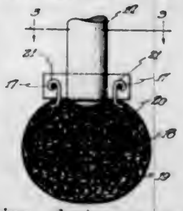
1. A machinable plastic zinc alloy containing from a small but effective amount up to 5 per cent of copper, from 0.1 to 1 per cent of bismuth, from 0.1 to 1 per cent of manganese, and fine zinc poor in iron and cadmium, and practically free from magnesium and tin, as the remainder.

2,166,342
SHIRT
John David, New York, N. Y.; Vera B. David, George Frankenthaler, Irving Trust Company, and Robert D. Abrahams, executors of said John David, deceased, assignors to Vera B. David
Application June 8, 1937, Serial No. 147,015
3 Claims. (Cl. 2—116)



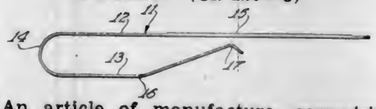
1. In a shirt having a front opening, the combination of an attached neck-band therefor having upper and lower edges, each edge having a relatively horizontal center portion and end portions inclined downwardly at an angle to said center portion, from the sides of the neck of the wearer to the front opening, whereby the neck-band tends to embrace the neck of the wearer to urge the front opening toward closed position without requiring fastening means for that purpose.

2,166,343
SCOURING APPARATUS
Ethel C. Derks, Ryderwood, Wash.
Application June 1, 1936, Serial No. 82,872
2 Claims. (Cl. 15—230)



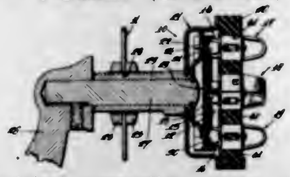
1. A scouring device comprising a shaft, clamping members engaging the shaft and provided with clamping screws for clamping the same to the shaft, a scouring pad having a cover, a ring mounted within said cover, a pair of hooks extending upwardly from the opposite sides of the ring and through the scouring pad cover, said hooks engaging the clamping screws between said clamping members.

2,166,344
CLIP
Nell Donohue, Chicago, Ill.
Application February 9, 1939, Serial No. 255,372
2 Claims. (Cl. 120—8)



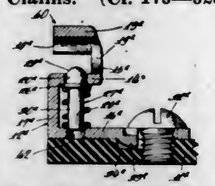
1. An article of manufacture, comprising a unitary spring clip member having a flat portion adapted to be disposed upon the upper surface of a desk top, or the like, abrasive means formed on the upper surface of said flat portion to facilitate cleaning of an eraser thereon, and a lower portion formed integrally with said flat portion and disposed in spaced relationship thereto to provide a tensioning member adapted to engage the under surface of said desk top to firmly retain the clip member in desired position thereon with said flat portion in planar engagement with the upper surface of said desk top.

2,166,345
ELECTRICAL CONTACT AND CONNECTION MEANS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application July 8, 1935, Serial No. 30,282
7 Claims. (Cl. 173—328)



1. Electrical connection means, comprising: a support, having an aperture provided with preformed slots in the marginal surface thereof; a body constructed of sheet material, disposed in said aperture, and having an integral loop portion arched axially over said support aperture providing a conductor terminal receiving aperture, said body having projections disposed in predetermined relation with respect to the axis of said receiving aperture; said projections and the slots in said support aperture being constructed and arranged to interengage when said body is assembled with said support, so that the axis of said receiving aperture is disposed in predetermined relation about the axis of said support aperture.

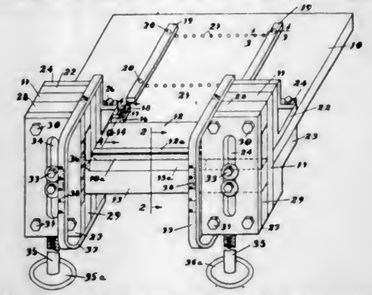
2,166,346
ELECTRICAL CONNECTION MEANS
Harry A. Douglas, Bronson, Mich., assignor to Kingston Products Corporation, a corporation of Indiana
Application July 17, 1935, Serial No. 31,808
9 Claims. (Cl. 173—328)



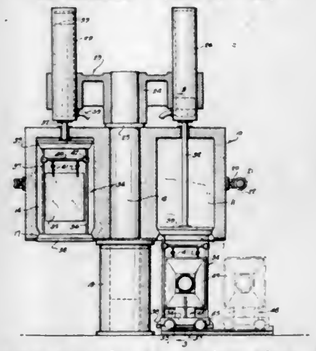
9. Receptacle means, comprising: a body constructed of sheet material, having a vertical portion provided with an aperture for receiving a conductor terminal, said body having also spaced substantially horizontal planar walls formed with apertures disposed along an axis transverse to the conductor receiving aperture; detent means, slidably extending through and guided by said apertures, and having one end directed toward said receiving aperture; and exposed resilient means, constructed and arranged to yieldably urge said one end into engagement with a conductor disposed in said receiving aperture.

2,166,347
BUS BAR AND STRIP BENDER
Leon W. Farney, Grantwood, N. J., assignor to Farney Tool & Machine Works, Inc., New York, N. Y., a corporation of New York
Application March 13, 1937, Serial No. 130,797
9 Claims. (Cl. 153—16)

1. A bus bar and strip bender, comprising a base plate for attachment on a work bench or the like and having a bottom bevel edge portion on the center of the front edge thereof, a pair of rigid support strips rigidly attached with their centers in the plane of said base plate and disposed at right angles to said base plate, an abutment bar parallel to said base plate and adjustably spaced therefrom and having a top bevel edge portion located substantially above said bottom bevel edge portion, and another abutment bar at right angles to said base plate and having a front bevel edge portion extending to its rear face and its rear edge being substantially in the same plane as the outer edges of said bevel edge portions and said latter abutment bar being adjustably mounted along said support strips for movement in the direction of said plane.

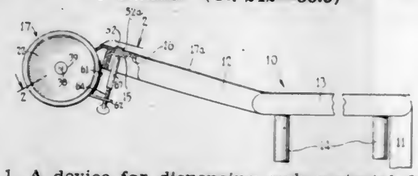


2,166,348
APPARATUS FOR TEMPERING GLASS SHEETS
George R. Ford, Jr., Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application June 5, 1936, Serial No. 83,627
16 Claims. (Cl. 49—45)



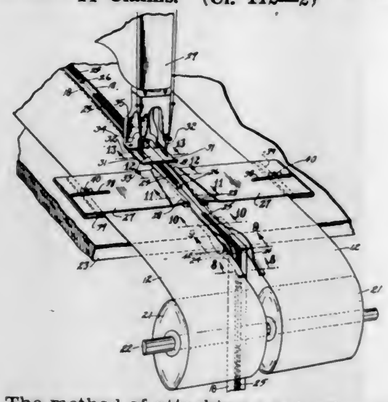
1. In apparatus for tempering glass sheets, a unitary furnace structure formed with a plurality of heating compartments for receiving the sheets to be treated and having openings in the bottoms thereof through which the sheets are introduced and removed, means for heating said compartments, separate closure means for the openings in the bottoms of said heating compartments, cooling means positioned beneath said furnace and adapted to receive the heated glass sheets therefrom, means for causing relative movement between the furnace and cooling means to effect successive alignment of the heating compartments with said cooling means, and separate means permanently associated with each heating compartment for actuating the respective closure means therefor independently of the closure means for the other heating compartments.

2,166,349
DEVICE FOR DISPENSING WEB MATERIAL
Harry Fredd, New York, N. Y.
Application March 29, 1938, Serial No. 198,710
5 Claims. (Cl. 242—55.5)



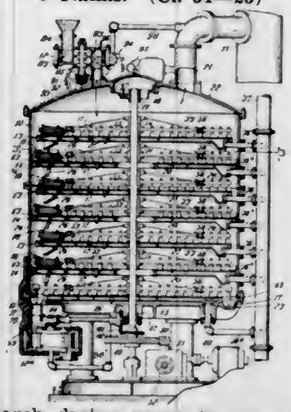
1. A device for dispensing web material from a roll, comprising a cylindrical container formed with a longitudinal slot, an axial shaft within said container adapted to support a roll of web material adapted to pass through said slot, a member having a curved portion fixed to the inner surface of said cylindrical member, a portion extending from said curved portion radially outwardly through said slot, and a flat portion extending from said radially extending portion and disposed in a plane parallel to and spaced from the axis of said container, a bracket fixed to said cylindrical container and extending therefrom, and screw threaded means on said bracket and disposed perpendicular to said flat portion, to clamp said device to an article received between said flat portion and said means.

2,166,350
DEVICE AND METHOD FOR ATTACHING CONTINUOUS ZIPPER OR SLIDE FASTENER TAPES TO CONTINUOUS STRIPS OF FABRIC
Earl Freshman, Pottstown, Pa.
Application February 27, 1937, Serial No. 128,130
14 Claims. (Cl. 112—2)



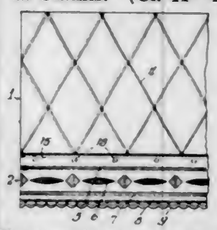
2. The method of attaching a pair of continuous mating "zipper" tapes, joined together in locking engagement, to a pair of continuous strips of multiple layer fabric, which includes longitudinally feeding in spaced relation and opposite each other said pair of strips, the clear distance between the strips being less than the width out to out of the joined pair of tapes, pushing aside the edges of one of said pairs to allow the joined "zipper" tapes to feed between the fabric strips, effecting said latter feeding, separating layers of each fabric strip at the edges thereof facing each other, causing the joined "zipper" tapes to have their free edges enter in between the layers of said strips where separated, and stitching through the layers of each strip with the tape between.

2,166,351
VACUUM DRIER
Carl Hagen, Park Ridge, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
Application February 6, 1936, Serial No. 62,625
6 Claims. (Cl. 34—23)



4. A starch drying apparatus comprising, in combination, a drying chamber, a plurality of drying tables positioned in the chamber in vertically spaced relation, and means for spreading the starch over the several tables and discharging it from one table onto another; the said tables being in the form of relatively flat steam chests, each formed with a plurality of concentric passages of substantially equal length for distributing the steam throughout all portions of the chest.

2,166,352
SHELF PAPER
Kenneth C. Hamilton, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 27, 1937, Serial No. 181,777
12 Claims. (Cl. 41—10)

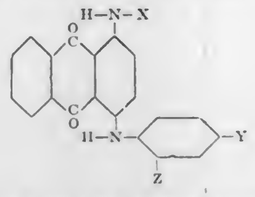


11. A shelf paper having a shelf covering section, a separate edging section, a connecting section comprising an elongated strip having a line of perforations extending longitudinally and dividing the connecting section into two portions, one portion having adhesive on one side thereof and the other portion having adhesive on the other side thereof, by which said shelf covering section and said separate edging section are secured to opposite sides of the connecting strip with their adjacent edges disposed alongside the line of perforations in said connecting strip, and zones of adhesive on the side of said strip portion receiving the edging section opposite the latter to provide for attaching the edging section and its portion of the connecting strip to the edge of a shelf after the shelf covering section and its portion of the connecting strip have been detached from the edging section and the other portion of the connecting strip along said line of perforations.

2,166,353
ANTHRAQUINONE DYESTUFFS
Robert Norman Heslop and William Wyndham Tatum, Grangemouth, Scotland, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain
No Drawing. Application June 21, 1937, Serial No 149,549. In Great Britain June 23, 1936
5 Claims. (Cl. 260—374)

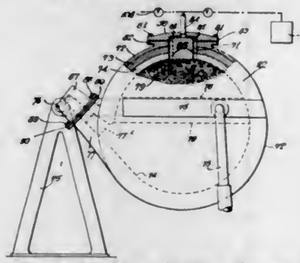
1. A compound of the class consisting of 1-alkylamino-4-arylaminoanthraquinone and its sulfonation products, in which the alkyl groups carry from 3 to 7 carbon atoms and in which the arylamino group carries an alkyl group containing from 3 to 7 carbon atoms.

2. As new substances, compounds having the formula



where X and Y are alkyl groups having from 3 to 7 carbon atoms and Z stand for a member of the class consisting of CH_3 and H.

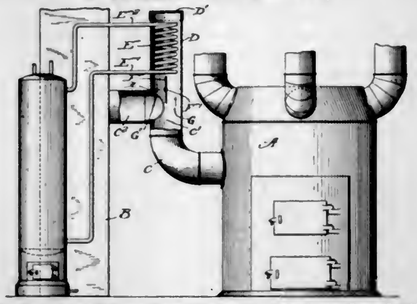
2,166,354
COPPER REFINING PROCESS
Russell P. Heuer, Bryn Mawr, Pa., assignor to The American Metal Company, Limited, New York, N. Y., a corporation of New York
Application November 7, 1936, Serial No. 109,781
25 Claims. (Cl. 75—76)



1. In the art of producing dense oxygen-free copper castings, the process which comprises deoxidizing molten copper substantially free from metallic impurities by a carbon-containing reducing agent until the copper has an oxygen content substantially lower than that necessary to obtain dense oxygen-free copper castings when casting without oxygen pick-up, conducting the deoxidation in the absence of contamination with hydrogen-containing substances, and casting the deoxidized molten copper in contact with air under conditions in which the oxygen pick-up is insufficient to cause a distinct phase of cuprous oxide and insufficient to cause excessive gas cavities in the castings.

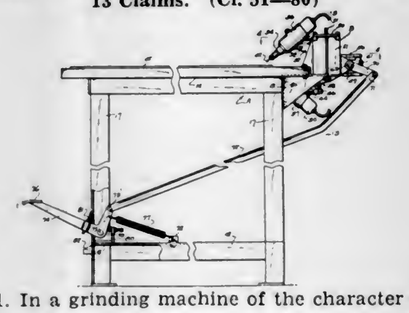
22. In the art of preparing copper to make castings from copper masses, the process which comprises continuously preheating and concurrently oxidizing the copper masses by fuel combustion, subsequently continuously melting the copper masses by separate fuel combustion, separately controlled, while the masses are submerged, in molten copper, adjusting the oxygen content of the molten copper to that required for "tough-pitch" copper by reducing with a carbonaceous reducing agent and completely deoxidizing the molten copper with carbon.

2,166,355
AUXILIARY HEATING APPARATUS
Leo J. Higgins and Herman L. Rosen, Madison, Wis.
Application November 17, 1937, Serial No. 174,954
3 Claims. (Cl. 126—364)



3. In auxiliary heating apparatus for boilers and furnaces, the combination of a combustion chamber discharge duct for directing hot products of combustion from the combustion chamber to a chimney or flue, a dead end heat exchange chamber opening laterally into and extending upwardly from said duct at an intermediate point therein, heat absorbing surfaces disposed in said chamber and being capable of utilizing heat absorbed from said hot products of combustion, said dead end heat exchange chamber receiving said hot products of combustion from said discharge duct and returning said products of combustion, after extracting heat therefrom, to said discharge duct, and a damper for directing said hot products of combustion into said dead end heat exchange chamber, said damper being so disposed that said products of combustion enter said dead end heat exchange chamber on one side of said damper and are discharged therefrom on and in contact with the other side of said damper.

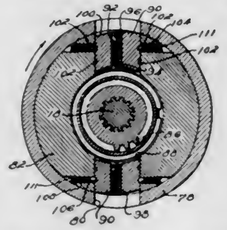
2,166,356
GRINDING MACHINE
Robert S. Hinsey, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application March 23, 1936, Serial No. 70,237
13 Claims. (Cl. 51—80)



1. In a grinding machine of the character de-

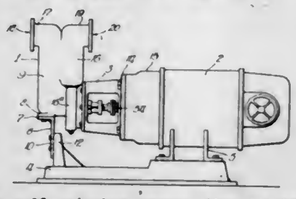
scribed for notching glass sheets or the like, a support for the sheet, grinding mechanism mounted adjacent the support and including a pair of grinding elements arranged at an acute angle relative to the sheet and having their working faces positioned to engage opposite surfaces thereof at opposed points to notch the same, means for pivotally mounting the grinding elements, means for moving said grinding elements into and out of engagement with said sheet, and spring means for yieldably maintaining the said grinding elements in engagement with the said sheet.

2,166,357
AUTOMATIC TRANSMISSION CLUTCH
Rex E. Keller, Beverly Hills, Calif.
Application March 2, 1934, Serial No. 713,634
25 Claims. (Cl. 192—105)



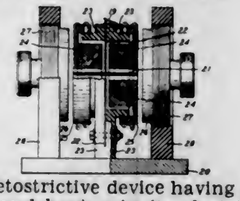
25. The combination with a driving member and a driven member, an automatic clutch for effecting a drive connection between said members, comprising an engaged member and an engaging member, said engaging member including a radially movable dog movable radially outward into engaging position under the influence of centrifugal force, a spring for restraining said dog in its disengaged position, and means for selectively varying the tension of said spring, and spring means for retracting said dog.

2,166,358
SELF-PRIMING CENTRIFUGAL PUMP
Harry E. La Bour, Elkhart, Ind.
Application December 29, 1936, Serial No. 118,032
6 Claims. (Cl. 103—113)



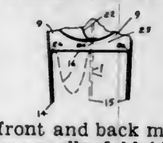
1. In a self-priming pump, the combination of an open impeller rotatable on a horizontal axis, an impeller casing provided with a central inlet and a peripheral volute, a separator disposed substantially in the plane of the impeller casing and having a bottom wall, said volute having a part terminating in the separator above the bottom wall and opening directly into the separator, said separator and casing having communication through said opening, the sides of said separator being disposed in substantially parallel planes on each side of and spaced away from the sides of said part of the volute to define two open channels for priming water leading from back of the said part of the volute to the sides of said opening and below the top of said opening.

2,166,359
MAGNETOSTRICTIVE DEVICE
Emory Lakatos, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 30, 1937, Serial No. 133,837
9 Claims. (Cl. 178—44)



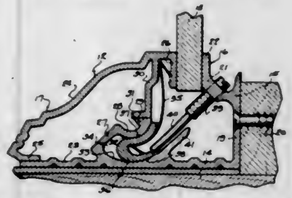
1. A magnetostrictive device having one vibrating element and having in its electrical impedance-frequency characteristic a plurality of critical frequencies non-harmonically related and having adjustable polarizing means so that the coupling factor of the device and the frequency intervals between the critical frequencies may be adjusted.

2,166,360
BOTTOM FOR BAGS
David Lewis, New York, N. Y.
Application March 15, 1937, Serial No. 130,807
2 Claims. (Cl. 150—28)



2. In a bag, front and back members, a bottom including a downwardly foldable central section secured thereto above the bottom edges of said front and back and at a distance from said edges at least one half the width of said bottom, whereby the bottom edges of said front and back project below said foldable bottom when the bag is closed or open, inwardly foldable ends secured to said front and back and secured to said bottom along said central section only, said bottom providing an extension to said ends when folded.

2,166,361
METHOD OF STABILIZING ALKALI METAL
Clyde D. Lowry, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application January 7, 1938, Serial No. 183,793
14 Claims. (Cl. 20—56.4)



1. In a sash or store front construction, the combination of a stationary section and a movable section adapted to receive and grip a pane of glass therebetween, said stationary section being provided with a downwardly and forwardly directed channel, a spring device carried by said movable section and received within said channel, and tensioning means carried by the said stationary section and acting upon the said spring

device to effect downward and forward sliding movement thereof in said channel whereby to urge the movable section into yielding engagement with the pane of glass.

2,166,362
STABLE CALCIUM HYPOCHLORITE COMPOSITION
James Douglas MacMahon, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application November 15, 1937, Serial No. 174,659
10 Claims. (Cl. 23—250)

10. An improved product for forming aqueous solutions containing calcium ions and hypochlorite ions, comprising a calcium hypochlorite and, in intimate association therewith, a water soluble pyrophosphate in proportion approximating 0.5%–8% by weight on the calcium hypochlorite, and an inert diluent salt.

2,166,363
STABLE CALCIUM HYPOCHLORITE COMPOSITION
James Douglas MacMahon, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia
No Drawing. Application November 15, 1937, Serial No. 174,660
5 Claims. (Cl. 23—250)

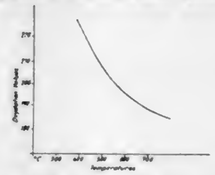
5. An improved hypochlorite composition comprising a dry mixture of a calcium hypochlorite containing upwards of 50% available chlorine with which is intimately admixed a water soluble sodium pyrophosphate in proportion not less than about 4% by weight and not exceeding about 30% by weight on the hypochlorite content of the mixture, and sodium carbonate in proportion in excess of the equivalent of the calcium present.

2,166,364
METHOD OF STABILIZING ALKALI METAL NITRATE MELTS USED IN THE HEAT TREATMENT OF METALS
Josef Martin Michel, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application July 10, 1937, Serial No. 153,001. In Germany July 22, 1936
12 Claims. (Cl. 148—13.1)

1. A method of stabilizing saltpetre melts for use in the heat-treatment of alloys, which comprises adding to such melt at least one substance of the group consisting of alkali- and alkaline-earth metal mono-chromates, molybdates, tungstates, vanadates, and manganates, in a quantity exceeding 2% but not exceeding about 20% of the weight of the melt, such quantity increasing within the range specified as the temperature of operation of the melt increases within the range from about 250 to about 550° C.

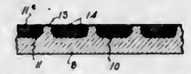
2,166,365
TREATMENT OF METALS
Josef Martin Michel, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application August 25, 1938, Serial No. 226,738
In Germany August 28, 1935
13 Claims. (Cl. 148—13.1)

1. A process for the heat-treatment of metals and alloys included in the group consisting of the metals of the iron group and their alloys, and light metal alloys containing magnesium, which comprises submerging said metals or alloys in a bath, substantially consisting of at least one molten anhydrous compound of the group consisting of sodium bichromate and potassium bi-



chromate, and at least one compound of the group consisting of sodium monochromate and potassium monochromate, the content of monochromate being at least approximately corresponding to the equilibrium ratio between dichromate and monochromate at the temperature of the heat-treatment.

2,166,366
MEANS AND METHOD OF PRODUCING METALLIC SCREENS
Edward O. Norris, Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y., a corporation of New York
Application November 30, 1935, Serial No. 52,334
Renewed December 14, 1938
10 Claims. (Cl. 204—6)



3. The method of forming a matrix for electrolytic deposition of a foraminous sheet which comprises applying an etch resisting design to a sheet of metal, etching the exposed areas of the metal to form relatively deep depressions which are undercut at the sides, removing the resisting material, again etching until the edges of the depressions are rounded off and then inserting material in the said depressions that presents a surface inactive to electrolytic deposition in quantities such that it overlies the said rounded edges of said depressions but leaves exposed metallic areas between said depressions, the exposed metal of the sheet having substantially rounded surfaces in cross section.

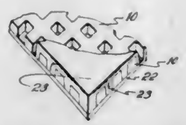
10. A matrix to receive an electro-deposition of a foraminous sheet, comprising a metal plate in at least one surface of which there is a plurality of depressions with overhanging edges, the depressions containing material presenting a surface inactive to electrolytic deposition and into which said material the said edges project.

2,166,367
PROCESS FOR THE PRODUCTION OF METALLIC SCREENS
Edward Omar Norris, Westport, Conn., assignor to Edward O. Norris, Inc., New York, N. Y., a corporation of New York
Application December 6, 1934, Serial No. 756,224
Renewed December 14, 1938
15 Claims. (Cl. 204—6)

2. The process of making a screen, comprising forming a master screen, filling the interstices of said master screen with non-conducting material, providing a back common to the material in said interstices, removing said master screen and applying a conducting surface to said non-conducting material, electro-depositing a sheet

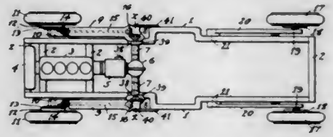
of metal in a layer on said conducting surface, removing said metal as a sheet having depressions on one face thereof corresponding to the shape of said non-conducting material and removing a portion of the other face of said sheet opposite to the face having said depressions to a depth such that certain of said depressions are reached.





7. A matrix of the type described, comprising a plurality of spaced bodies of material presenting a surface inactive to electrolytic deposition and supported by and affixed to a backing sheet presenting a conductive surface, the said spaced bodies being protuberant and projected from said conductive surface to a substantial height and diminishing in cross-section area as the height increases.

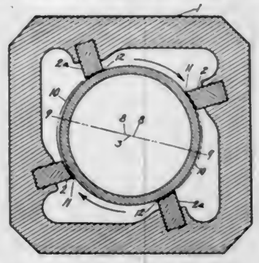
2,166,368
INDEPENDENT WHEEL SUSPENSION FOR AUTOMOBILES
Adrian Perron, Detroit, Mich.
Application May 21, 1937, Serial No. 143,903
2 Claims. (Cl. 280—124)



1. In an apparatus of the character described, the combination, with a chassis frame having a pair of longitudinal members spaced apart, of a pair of radius arms pivoted to the outsides of said members, wheel spindles fixed to said arms, wheels upon said spindles, downwardly extending levers upon said arms arranged substantially at right angles thereto, tension rods connected to said levers disposed at an angle to said side members and extending across one another in the space therebetween, and spring tension means upon said rods positioned within said space and adapted to resist upward movement of said wheels in a vertical plane.

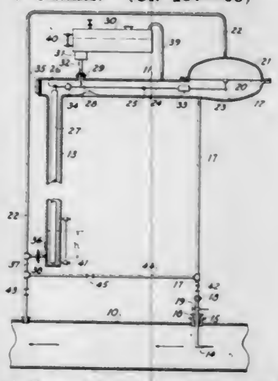
2,166,369
SOLID SCREW CUTTING DIE
Thorvald Petersen, Erie, Pa., assignor, by mesne assignments, to Security-Peoples Trust Company, Erie, Pa., a corporation of Pennsylvania
Application January 14, 1936, Serial No. 59,049
5 Claims. (Cl. 10—111)

1. In a solid screw cutting die, the combination of a die wall; and chasers permanently fixed in said wall, said chasers being arranged in pairs, each pair comprising a cutting chaser with thread cutting teeth and a guide chaser having non-cutting guide teeth, the teeth of the chasers of each pair having their surfaces centered at a



point offset from the center of the die toward the pair.

2,166,370
LIQUID FLOW CONTROL APPARATUS
Joseph F. Putnam, Berkeley, and Eldred E. Edwards, Walnut Creek, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application April 6, 1938, Serial No. 200,396
7 Claims. (Cl. 137—68)

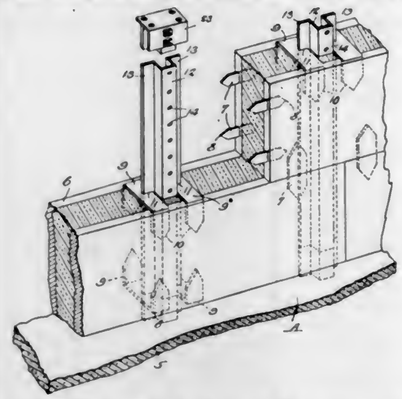


1. A liquid flow control apparatus of the type described, comprising a diaphragm, means for impressing a differential pressure on opposite sides of said diaphragm, a float chamber, a float in said chamber responsive to the position of said diaphragm, a liquid storage tank having an outlet, a valve in said outlet responsive to the position of said float to admit liquid into said chamber, and a restricted liquid outlet from said chamber, said float and diaphragm so constructed and arranged as to maintain a depth of liquid in said chamber proportional to a predetermined function of the differential pressure across said diaphragm.

2,166,371
BUILDING CONSTRUCTION
Ira F. Reed, Johnstown, Pa.
Application December 12, 1938, Serial No. 245,279
6 Claims. (Cl. 72—30)

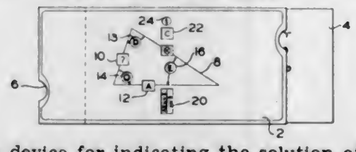
1. A wall construction for buildings embodying spaced parallel members, connecting members having offset portions formed therein, said connecting members adapted to be embedded in the edges of the spaced parallel members, securing the parallel members in position, vertical posts positioned between the parallel members, flanges on the posts, said flanges being positioned in the offset portions of the connecting members holding the posts in upright positions, and the space

between the parallel members adapted to be filled



with plastic material, anchoring the posts in position.

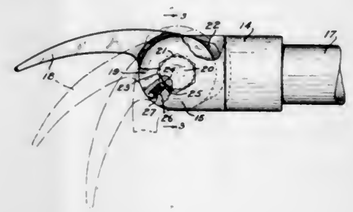
2,166,372
FORMULA-FINDING DEVICE
George E. Roeder, Washington, D. C.
Application June 16, 1938, Serial No. 214,158
3 Claims. (Cl. 35—75)



1. A device for indicating the solution of geometrical problems comprising an outer member having marked thereon a geometrical figure composed of sides and angles, windows arranged in the outlines of said sides and angles and adapted to disclose figure indicating indicia, windows located adjacent said figure and adapted to disclose formula and unknown value indicating indicia, an inner member displaceable with respect to said outer member, rows of symbols on said inner member, certain of said symbols in respective rows indicating an unknown value for either a side or an angle through one of said windows arranged in the outlines of said figure, and certain other symbols indicating known values through at least one of the other of the same windows, certain other symbols forming another row of formulae for appearing in said window arranged to disclose formula in dependence upon the symbols appearing in said windows arranged in the outlines of said figure, and other symbols indicative of the side or angle of unknown value appearing in said window arranged to disclose unknown value indicia in dependence upon the appearance of an unknown value symbol through one of said figure windows arranged in the outlines of said figure.

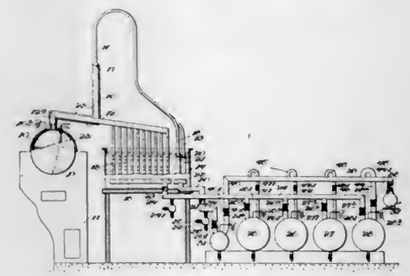
2,166,373
STRAIGHTENING TOOL
Edward H. Schultz, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application November 20, 1937, Serial No. 175,688
21 Claims. (Cl. 254—134)

1. An implement comprising, a shank member movable along its longitudinal axis and having a polygonal transverse opening, a toe member having its end adjoining said shank member provided with a similarly polygonal opening, and a polygonal pin cooperable with said openings



to prevent relative displacement of said members, one of said openings being formed to permit a greater number of angular adjustments of said pin therein than the other.

2,166,374
APPARATUS FOR DISTILLING PETROLEUM OILS
John E. Schulze, Chicago, Ill., assignor, by mesne assignments to Red River Refining Company, Chicago, Ill., a corporation of Delaware
Original application August 24, 1925, Serial No. 52,118. Divided and this application August 19, 1935, Serial No. 36,895
11 Claims. (Cl. 196—114)

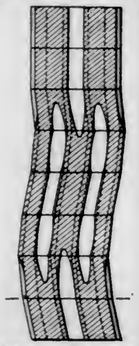


1. Apparatus for refining oils comprising, in combination, an oil vaporizer, vapor-offtake means leading therefrom, conduit means extending upwardly from said offtake means and constituting a reflux condensing zone, means for adjusting the cooling effect produced in said zone, other conduit means extending downwardly from said offtake means, separate receivers into which said conduit means respectively discharge, vacuum-producing means communicating with said receivers, and means for separately adjusting the pull of the vacuum-producing means on the respective receivers.

2,166,375
HEAT-EXCHANGING STRUCTURE AND ITS CONSTRUCTIONAL ELEMENTS
Paul Schwarze, St. Gallen, Switzerland
Application April 20, 1938, Serial No. 203,063
In Germany May 8, 1937
6 Claims. (Cl. 263—51)

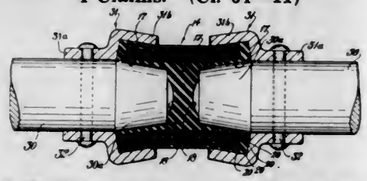
1. Packing for heat exchanging structures or the like, more especially air heaters, comprising bricks having substantially straight passages inclined to the end surfaces, said bricks being as-

sembled in angular relation in such a way that



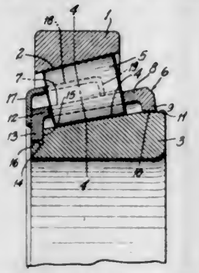
said straight passages combine to continuous helical channels.

2,166,376
FLEXIBLE COUPLING
Curt Saurer, Akron, Ohio, assignor to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application March 4, 1937, Serial No. 128,956
4 Claims. (Cl. 64—11)



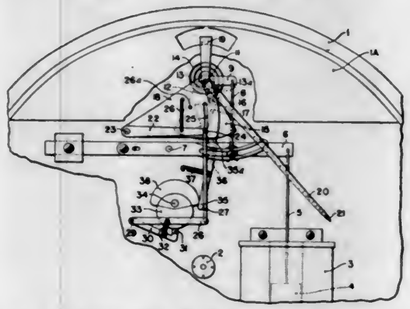
1. A flexible coupling comprising a generally cylindrical rubber structure formed with respective co-axially disposed, shaft-receiving sockets in the opposite ends thereof, and reinforcement of cord strands within said rubber structure, said strands being arranged helically about the axis of the structure in adjacent convolutions that are disposed at a relatively wide angle with relation to the axis of the coupling, and substantially parallel to the direction of torsional strains imposed thereon.

2,166,377
TAPER ROLLER BEARING
William L. Scribner, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application May 23, 1938, Serial No. 209,462
5 Claims. (Cl. 308—214)



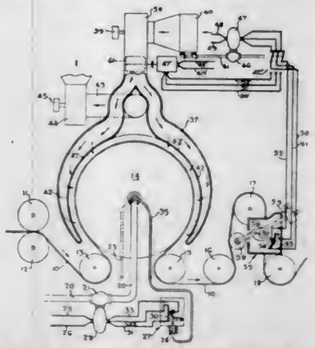
1. A taper roller bearing comprising an inner bearing cone having a conical raceway, conical rollers thereon, an outer bearing cup having a conical raceway and a cage for said rollers having a radially disposed flange at the smaller end of said raceway overlapping a portion of one of said bearing members for taking up end thrust on said rollers, the only contact between said rollers and said bearing members being on the raceways thereof.

2,166,378
FLOW METER
Frederick W. Side, Philadelphia, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 13, 1937, Serial No. 174,323
18 Claims. (Cl. 74—1)



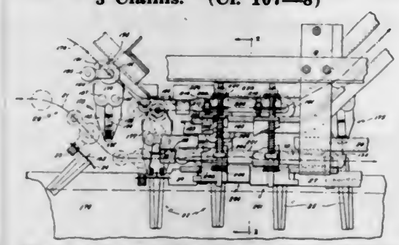
1. In a measuring instrument, a plate positioned in accordance with a condition to be measured, said plate having an opening therein, the edges of which converge, a device, a link connected to the device for movement therewith, an element on said link extending into the opening, and means for periodically moving said element to a predetermined position in said opening to thereby position the device.

2,166,379
DRIER
Rutcher Skagerberg, St. Paul, Minn., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 12, 1936, Serial No. 68,362
10 Claims. (Cl. 34—48)



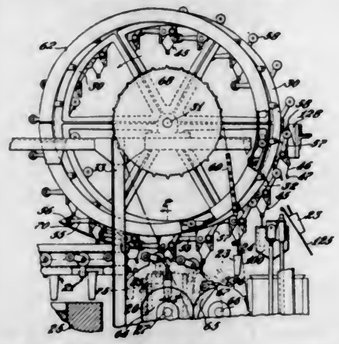
1. In a drier of the class described for drying a substance, drying means for accomplishing a major portion of the drying action, control means responsive to the drying properties of said drying means for maintaining the drying action thereof substantially constant, other drying means for completing the drying action, and means responsive to the moisture condition of the substance to vary said other drying means to increase or decrease its drying action.

2,166,380
MACHINE FOR MAKING FROZEN CONFECTIONS
William J. Taylor, Syracuse, N. Y., assignor to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts
Original application December 13, 1935, Serial No. 54,166. Divided and this application January 15, 1937, Serial No. 120,693
3 Claims. (Cl. 107—8)



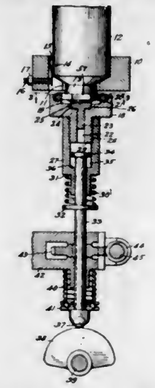
1. In a machine of the class described comprising a continuously moving conveyor provided with a plurality of molds adapted to contain frozen confections of edible material from which sticks project, means for loosening the confections in the molds and means for removing such loosened confections therefrom, both said means operating while the conveyor is in motion, and said last-named means including float sections provided with tracks on which the mold carriers are supported and means for seizing the sticks, the weight of the carriers causing the tracks of the float sections to lower and separate the molds from the confections.

2,166,381
CONFECTION MACHINE
William J. Taylor and Richard John Taylor, Syracuse, N. Y., assignors to The Lamson Company, Syracuse, N. Y., a corporation of Massachusetts
Original application July 9, 1936, Serial No. 89,733. Divided and this application December 18, 1936, Serial No. 116,468
2 Claims. (Cl. 198—210)



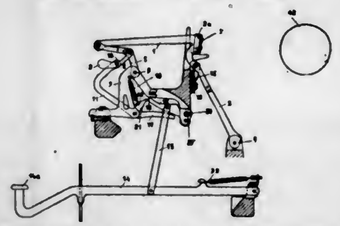
1. In a confection machine, a conveyor wheel, means for rotating said conveyor wheel continuously upon a horizontal axis, the conveyor wheel including a plurality of gripper carriers each comprising a rotatable shaft having a roller at one end thereof and a plurality of grippers carried by the shaft, a stationary track which receives the carrier rollers and is mounted eccentrically of the conveyor wheel axis, said track causing the grippers to assume normally vertical positions, and means for opening and closing said grippers as they pass through certain points during the rotation of the conveyor wheel.

2,166,382
CAP-TIGHTENING MECHANISM FOR COLLAPSIBLE TUBES
George W. Temple, New York, N. Y., assignor to Victor Metal Products Corporation, Brooklyn, N. Y., a corporation of New York
Application August 16, 1938, Serial No. 225,136
7 Claims. (Cl. 226—88)



6. In a machine of the character described, cap-gripping and rotating means comprising an annular spring, means fitted into the spring and extending past the end coils thereof to connect said end coils, and a rotatable raceway closely fitting the outermost and lowermost surfaces of said spring whereby rotation of the raceway normally rotates said spring until rotation of the spring is halted whereafter said raceway rotates relatively to the spring while remaining in contact therewith.

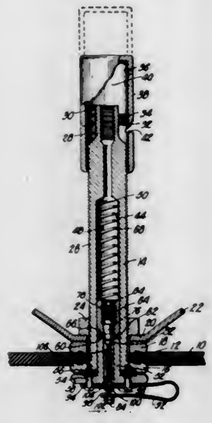
2,166,383
TYPEWRITER
Alfred Vogt, Chemnitz, Germany, assignor to Wanderer-Werke vorm. Winklhofer & Jaenicke Akt.-Ges., Schonau-Chemnitz, Germany
Application October 28, 1932, Serial No. 640,106
In Germany August 21, 1931
13 Claims. (Cl. 197—25)



1. A typewriter comprising a machine frame; a platen; a plurality of keys; a plurality of type bars; a pair of links for each type bar; drive and transmission means between each key and its type bar for operating the type bar by its key; a

fixed bearing on the machine frame for the end of each of said links to provide a pivotal mounting for each link, each type bar being driven by a single key from its position of rest only to a position just in front or before the printing position its further movement to the printing position being effected by momentum forces; and a set of types of which two types are attached on each type bar, said types being arranged in the position of rest in two rows forming circular arcs of approximately 90° lying one above the other in planes substantially horizontal and parallel to and extending in front of the axis of the platen.

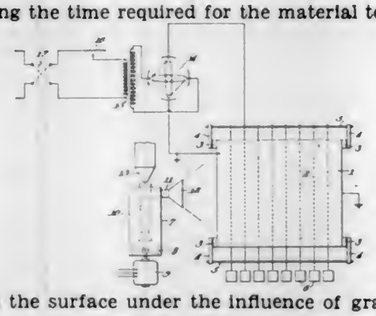
2,166,384
ALARM VALVE FOR PNEUMATIC TIRES
William H. West, Kansas City, Mo.
Application July 1, 1937, Serial No. 151,414
3 Claims. (Cl. 137—69.5)



2. A tire valve comprising a valve stem having a passage therethrough, a tubular piston type cage slidably mounted in said passage, a valve seat formed by one end of said cage, a valve element coacting with said seat to control flow through said cage, means urging said cage toward said valve element but yieldable to permit movement thereof away from said valve element by excessive air pressure in said passage, means to limit movement of said cage toward said valve element, resilient means for urging said valve element away from said cage seat when air pressure in said passage falls below a predetermined value above atmospheric pressure, and means operable by excessive temperature conditions in said passage to open said valve element, said temperature responsive means being mounted to normally permit independent movement of said valve member.

2,166,385
DETERMINING ELECTRICAL CHARACTERISTICS
Harry A. Wintermute, Plainfield, N. J., assignor, by mesne assignments, to Behr-Manning Corporation, a corporation of Massachusetts
Application April 10, 1937, Serial No. 136,232
9 Claims. (Cl. 175—183)

1. Method of testing finely divided fibrous materials which comprises causing a sample of the material to adhere to a surface by means of an electrical charge impressed thereon and determining the time required for the material to fall



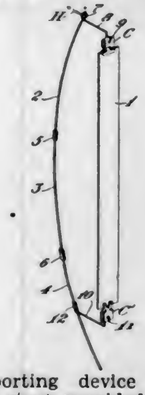
from the surface under the influence of gravity.

2,166,386
HAIR CURLER
Marie Auster, New York, N. Y.
Application March 16, 1938, Serial No. 196,255
7 Claims. (Cl. 132—40)



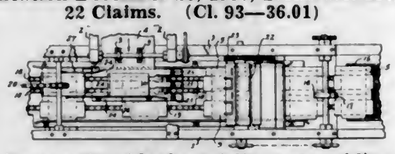
1. An automatic hair curler comprising a strip of material, resilient means in the material adapted to cause one end of the strip to roll upon the body of the strip so that when a strand of hair is applied to the strip and the strip is released at one end said strip will roll the strand in curlformation, and means for securing the rolled strip in position on the strand.

2,166,387
FILM HOLDING DEVICE
Charles S. Bassin, Newton, Mass., assignor to New England Theatres, Inc., Boston, Mass., a corporation of Delaware
Application April 22, 1938, Serial No. 203,710
13 Claims. (Cl. 95—100)



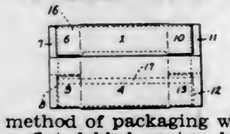
1. A film-supporting device comprising an elongate resilient strut provided with longitudinally spaced elements for connection to the respective ends of the film, said elements, when the device is not in use, being spaced apart a distance greater than the length of the selected film which it is desired to support so that in securing the ends of the film to the respective elements the strut must first be bent so as to cause said elements to approach, whereby the tendency of the bent resilient strut to straighten imposes longitudinal tension upon the film whose ends are secured to said elements.

2,166,388
MACHINE FOR COMBINING BAGS AND CARTONS
Robert Morris Bergstein, Cincinnati, Ohio, assignor to Edna May Bergstein and Robert Morris Bergstein, Cincinnati, Ohio, as trustees
Application December 20, 1937, Serial No. 180,750
22 Claims. (Cl. 93—36.01)



1. In a carton blank and liner assembling device the combination of a support, conveyor means for blanks moving beneath said support, and abutment means on the chains, said abutment means having portions traversing the said support above its supporting surface to engage liners deposited upon said support, and portions not traversing said support and engaging carton blanks to move them along beneath the support.

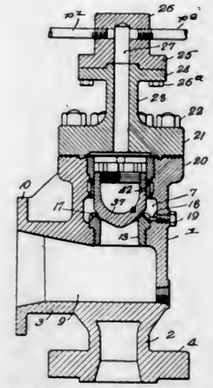
2,166,389
METHOD OF PACKAGING
Robert Morris Bergstein, Cincinnati, Ohio
Application May 5, 1938, Serial No. 206,224
4 Claims. (Cl. 93—3)



1. That method of packaging which comprises providing a flat folded carton having at least four parallel crease lines, and closing flaps at the ends thereof, said carton having adhesively fastened to its inner surface a liner with its longitudinal edges fastened to one another independent of the fastening of the container, and the open end of said liner projecting beyond the main body panel of said outer carton and free of attachment to the closing flaps, which method comprises squaring up said carton, thereby simultaneously squaring up said inner liner, thereafter sealing one of the open ends of the liner, closing the flaps of the outer container about the sealed end, thereafter filling with contents, sealing the other end of the liner and closing the flaps thereabout.

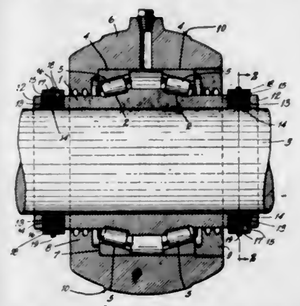
2,166,390
RELIEF VALVE
James Briscoe and James L. Corcoran, Bridgeport, Conn., assignors to Manning, Maxwell & Moore, Incorporated, New York, N. Y., a corporation of New Jersey
Application July 13, 1938, Serial No. 218,984
3 Claims. (Cl. 137—53)

1. A pressure relief valve of the kind having an inlet chamber, an outlet chamber having an annular valve seat defining an orifice leading from one of said chambers to the other, a valve feather cooperable with said seat to close said orifice, the feather normally being held to its seat by pressure fluid in a back pressure chamber having a normally closed exhaust passage, the valve feather comprising a substantially cylindrical skirt portion, and a guide sleeve within which the skirt portion of the valve feather slides with a clearance sufficiently small to prevent leakage



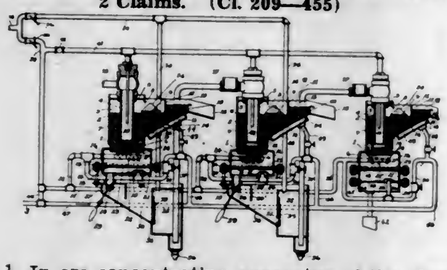
of pressure fluid past the skirt of the feather into the back pressure chamber fast enough to prevent prompt opening of the valve when the exhaust passage is opened, characterized in that the skirt of the feather has a port through that portion thereof which is always within the guide sleeve, the latter having an admission passage leading from the inlet chamber and with whose inner end the port in the feather registers when the valve is fully open.

2,166,391
SHAFT BEARING LOCKING MEANS
John Borland, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application December 18, 1937, Serial No. 180,480
3 Claims. (Cl. 287—52)



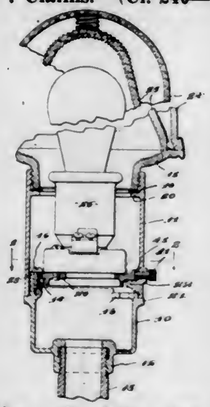
1. A shaft bearing or the like comprising a shaft and a member to be secured thereon, said member mounted thereon having an extended sleeve portion provided with a plurality of openings therethrough, plugs of resilient friction material mounted in said openings, a metal cap secured to each plug, a pin extending outwardly from each cap and a securing band extending around all of said caps, said band having slots through which said pins extend.

2,166,392
ORE CONCENTRATION
Harry H. Burton, Whitman, Mass., assignor to Burton-Allen Gold Reclaiming Corporation, Wilmington, Del., a corporation of Delaware
Application September 10, 1936, Serial No. 100,140
2 Claims. (Cl. 209—455)



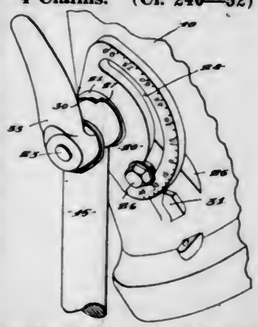
1. In ore concentrating apparatus of the class described, for the separation of "lights" from "heavies" in a free-flowing pulp, a pulp-receiving chamber having a screen at its bottom, a mass of "rags" in said chamber supported on said screen, the latter's perforations permitting passage therethrough of all the solid matter of said pulp, means for producing intermittent upward surges of fluid through said chamber, to agitate the "rags" therein and to discharge upwardly through said "rags" some of the lighter particles of the pulp, a second chamber communicating with the top of said first chamber and receiving therefrom said upwardly discharged material, a mass of "rags" in said second chamber, means for producing in said second chamber intermittent surges of fluid for the alternate elevations and settlings of the "rags" therein, thereby to float off the lighter pulp particles in said second chamber and to cause settling through said "rags" of the heavier pulp particles, and a substantially horizontal shelf in the path of pulp flow from the first chamber to the second chamber, said shelf providing for the support, in dam formation, of lighter pulp particles deposited by said pulp flow.

2,166,393
LIGHTING UNIT
Royal E. Crossley, Fayetteville, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application April 8, 1937, Serial No. 135,763
7 Claims. (Cl. 240—1.2)



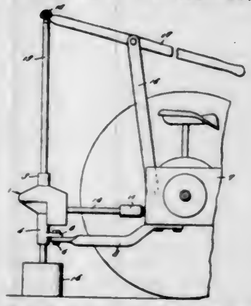
1. A lighting unit of the class described comprising a cylindrical base formed with opposed inwardly extending bosses, a receptacle supporting plate formed with a plurality of surfaces arranged in different axial planes and coacting with said bosses to position said plate in different axial positions relative to the base, and means for detachably connecting said plate to the base in any selected position.

2,166,394
FLOODLIGHT MOUNTING
Royal E. Crossley, Fayetteville, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application August 27, 1937, Serial No. 161,303
4 Claims. (Cl. 240—52)



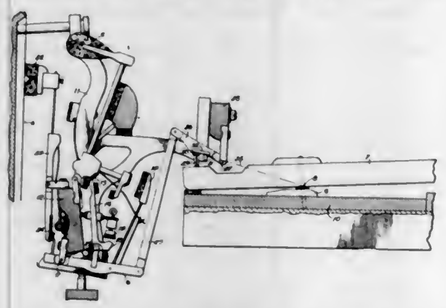
1. The combination of a relatively fixed supporting bracket and a floodlight pivotally mounted thereto, a plate member mounted on the floodlight in juxtaposition to said bracket and being adjustable about said pivot relative to the floodlight, means operable to secure said plate to the floodlight in adjusted position, the confronting sides of said plate and bracket being formed with integral stop members cooperable to limit the pivotal movement of said plate and floodlight relative to said bracket, said plate member and bracket being also provided on their confronting sides with means cooperable to urge said plate member in a direction to bring the stop member thereof into engagement with the stop member on said bracket.

2,166,395
POST HOLE DIGGER
August B. Crozier, Walford, Iowa
Application September 20, 1938, Serial No. 230,878
1 Claim. (Cl. 255—19)



A post hold digger comprising a housing having an opening therein, a pair of vertically aligned spaced bearings integral with said housing, the lowermost bearing extending upwardly into the housing, a third bearing extending horizontally from the upper portion of said lowermost bearing in the housing, a vertical shaft extending rotatably and slidably through the first named bearings, an auger fixed on the lower end portion of said vertical shaft, a drive shaft having one end portion journalled in the third named bearing, gears operatively connecting the vertical shaft to the drive shaft for actuation thereby, and means for manually raising and lowering the vertical shaft, said means including an upstanding supporting member having its lower end portion pivotally connected to a support, a hand lever pivotally mounted, at an intermediate point, on the upper portion of said supporting member, and a ball and socket connection coupling one end of said hand lever to the upper end of the vertical shaft.

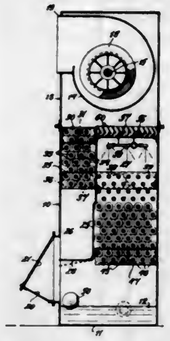
2,166,396
PIANO ACTION
Charles H. Dasenbrook, Rockford, Ill., assignor to Thayer Action Company, Rockford, Ill., a corporation of Illinois
Application March 6, 1937, Serial No. 129,306
3 Claims. (Cl. 84—240)



1. In a piano construction, the combination of a depressible key fulcrumed intermediate its ends, a capstan screw upstanding from the rear end portion of said key and having an upwardly facing convex head surface, a lever above the rear end of said key inclined relative thereto upwardly and rearwardly in the released position of the key and having a downwardly facing surface intermediate its ends engaging said head surface, said lever being fulcrumed at one end to swing about a pivot offset slightly in a direction opposite that of the capstan screw movement from a line extending between said key fulcrum and the normal point of contact between said lever surface and said head surface, and an action unit actuated from the opposite end of said lever, said lever having a substantially flat surface engaging said convex surface and cooperating therewith to provide true rolling contact therebetween throughout the range of movement of said key.

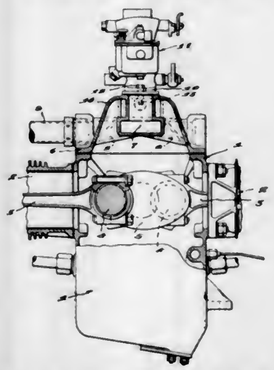
2,166,397
EVAPORATIVE COOLER
Charles N. Deverall, Buffalo, N. Y., assignor to Niagara Blower Company, New York, N. Y., a corporation of New York
Application February 12, 1937, Serial No. 125,471
12 Claims. (Cl. 257—37)

11. An evaporative cooler of the character described, comprising means forming a chamber, a primary and a secondary coil in said chamber, means for passing the fluid to be cooled in series first through said primary coil and then through said secondary coil, means for passing a stream of atmospheric air over the exterior of said coils, means for discharging water over the exterior of said secondary coil to evaporate thereon and means for isolating said discharging means and



secondary coil to prevent entrained water from being carried over to the primary coil including means in the path of the air leaving said secondary coil and removing the entrained water therefrom.

2,166,398
INTERNAL COMBUSTION ENGINE
Carl T. Doman, Geddes, N. Y., assignor to Air Cooled Motors Corporation, Liverpool, N. Y., a corporation of New York
Application April 5, 1938, Serial No. 200,158
2 Claims. (Cl. 123—122)



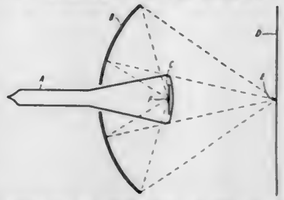
1. An internal combustion engine including a crank case serving as an oil sump, cylinders mounted on the crank case and extending in opposite directions therefrom, a crank shaft in the crank case, pistons movable in the cylinders and operatively connected to the crank shaft, the crank case having a top wall formed with an intake manifold including a distributing chamber opening through the upper face of said wall for connection to a carburetor and depending in the space below said wall, whereby its lower end and sides are exposed to the splashing oil in the crank case, and branches extending from the distributing chamber for connection to the intake pipes of the cylinders, the branches being on the lower side of the top wall whereby the lower portions and lateral sides of said branches being also exposed to the splashing oil.

2,166,399

TELEVISION AND LIKE RECEIVER

Harry Melville Dowsett, London, and Robert Cadzow, Argyllshire, England, assignors to Radio Corporation of America, a corporation of Delaware

Application January 30, 1936, Serial No. 61,486
In Great Britain January 16, 1935
2 Claims. (Cl. 178—7.5)



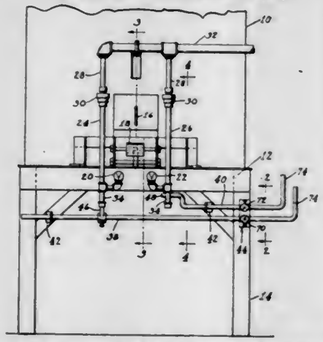
1. In a television receiver, a cathode ray tube having an elongated envelope for reconstructing the televised image, a viewing screen member, and a reflector embracing at least partially circumferentially the exterior of the envelope of the tube for reflecting the reconstructed image on to the screen member.

2,166,400

APPARATUS FOR MAKING MINERAL WOOL

Daniel C. Drill, Wabash, Ind., assignor to American Rock Wool Corporation, Wabash, Ind., a corporation of Indiana

Application September 30, 1937, Serial No. 166,701
10 Claims. (Cl. 83—91)



9. An attachment for a furnace comprising a pipe, a movable nozzle connected to the pipe and positioned for directing a jet of gaseous fluid on a stream of molten materials flowing from the furnace for shredding the stream of molten materials into fibers, an actuating member, means for supporting the actuating member, said actuating member being rotatable and longitudinally slidable relatively to the supporting means, and means for operatively connecting the actuating member with the nozzle for adjustably positioning the nozzle relatively to the stream of molten materials when the actuating member is rotatably or slidably moved.

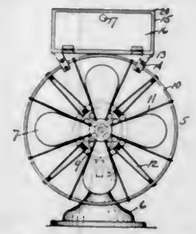
2,166,401

COOLING APPARATUS

Harry S. Frank, Middletown, Conn.

Application September 21, 1937, Serial No. 164,896
2 Claims. (Cl. 62—91.5)

1. A cooling apparatus comprising an electric fan of the type having a wire guard for safety purposes, and a receptacle adapted for use with so-called "dry ice", said receptacle being closed on its four sides and having a perforated top and bottom on the latter of which the ice is placed,



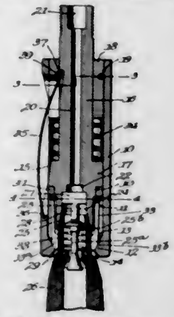
said receptacle being supported on said guard close to the upper edge of the fan whereby the latter will circulate water free air directly from within the receptacle through the bottom in all directions around the fan.

2,166,402

COUPLING

Henry Z. Gora, Bridgeport, Conn., assignor to Jenkins Bros., Bridgeport, Conn., a corporation of New Jersey

Application May 3, 1937, Serial No. 140,524
4 Claims. (Cl. 285—169)



1. A coupling for application to valve stems, said coupling comprising a barrel, gripping means at one end of the barrel and movable relative to the barrel in one direction to operative position and in the other direction to inoperative position, spring means normally holding said gripping means in operative position, a movable abutment in said barrel for said spring means, and a flat spring normally in bowed relation and having one end seated against said barrel and the other end against said abutment, pressure exerted on said spring to straighten the same causing said abutment to move and thereby overcome the action of said spring means on said gripping means so that in consequence the latter moves to inoperative position.

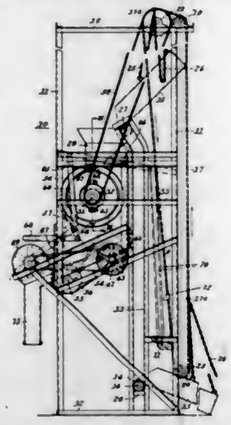
2,166,403

MIXING APPARATUS

George H. Haines, Caledonia, Ohio, assignor to The Fairfield Engineering Company, Marion, Ohio, a corporation of Ohio

Application October 10, 1938, Serial No. 234,145
3 Claims. (Cl. 259—9)

1. Mixing apparatus comprising a frame, a mixing chamber mounted thereon and movable from a loading position to a dumping position, a charging bucket movable in said frame from a loading position to a dumping position, an endless traction member traversing said frame, said bucket being secured to said member for periodic



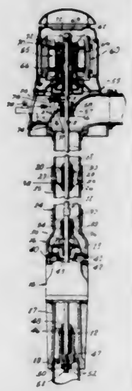
operation thereby from its loading position to its dumping position and return, and means controlled by said member for holding said chamber in its loading and dumping positions.

2,166,404

ELECTRICAL IMPELLER POSITIONING DEVICE FOR TURBINE PUMPS

James M. Hait, Los Angeles, Calif., assignor to Food Machinery Corporation, a corporation of Delaware

Application May 29, 1936, Serial No. 82,512
4 Claims. (Cl. 177—311)



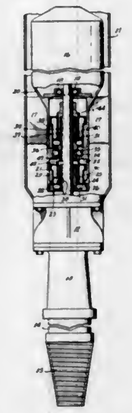
1. In a deep well turbine pump, the combination of: a vertical shaft; encasement means surrounding said shaft and forming an impeller chamber; a sealing ring of electrically insulating material in said chamber; an impeller mounted on said shaft in said impeller chamber and spaced above said ring; means electrically insulating said shaft from said encasement means: a source of electric potential connected across said shaft and said encasement means; a contact member resiliently supported in the bottom of said shaft for limited upward movement equal to the distance between said impeller and said sealing ring; a contact pin slidably mounted in the bottom of said encasement means below said contact member and frictionally held therein and adapted for engagement by said contact member upon downward movement of said shaft to complete an electric circuit through said source of potential; said shaft being adapted to reposition said contact pin downwardly when the bottom of the shaft lowers a distance in excess of the permissible movement of the contact member; and signal means in said circuit for giving a sensible indication when said circuit is closed.

2,166,405

MERCURY SEAL

James M. Hait, Los Angeles, Calif., assignor to Food Machinery Corporation, a corporation of Delaware

Application April 30, 1938, Serial No. 205,306
10 Claims. (Cl. 286—9)



1. In a liquid seal of the type described for use in combination with a housing having a rotatable shaft extending thereinto: a sealing device comprising a dipper element, and a cup element adapted to receive the dipper element; a second sealing device comprising a dipper element, and a cup element adapted to receive the dipper element; a sealing liquid in each of said cup elements; one of the elements of said first mentioned sealing device being mounted on said shaft and one of the elements of said second sealing device being mounted on said housing; the other elements of said sealing devices being integral and rotatably mounted in said housing independently of said shaft.

2,166,406

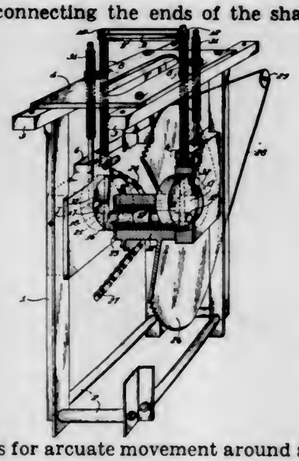
CHAIN ADJUSTER

Charles L. Henry, Pittsburgh, Pa., assignor to Lee C. Moore & Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

Application January 23, 1939, Serial No. 252,435
6 Claims. (Cl. 74—242.16)

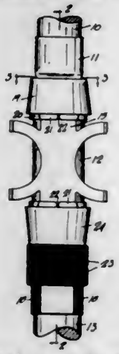
1. A chain adjuster comprising a pair of spaced supporting members, means for moving said members bodily laterally in unison in parallel planes, a shaft extending from one member to the other, a pair of sprockets mounted on said shaft, and

means connecting the ends of the shaft to said



members for arcuate movement around a common axis.

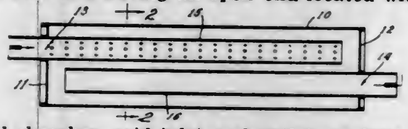
2,166,407
REEL SEAT
David Howarth, Glendale, Calif., assignor to South Bend Bait Company, South Bend, Ind., a corporation of Indiana
Application September 13, 1937, Serial No. 163,600
8 Claims. (Cl. 43—22)



1. In a reel seat, a hollow metal cylindrical member having a reduced thickness portion defining a longitudinal slot adapted to receive a reel base, said member having parallel longitudinal slits adjacent one end to provide the member with an integral resilient portion at said slot, said resilient portion having a transverse outwardly off-set portion intermediate its ends, a tapered socket encircling said member at said off-set, a tapered split ring encircling said member and adapted to fit into said socket and overlie said reel base, and means for urging said ring endwise toward the small diameter end of said socket to lock said reel base between said ring and member, and press said reel base radially inwardly against said off-set to distort the resilient portion of said member.

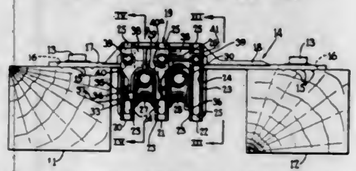
2,166,408
SILENCER
Robert L. Hoyle, Lombard, Ill., assignor to Burgess Battery Company, Chicago, Ill., a corporation of Wisconsin
Application September 1, 1938, Serial No. 227,951
7 Claims. (Cl. 181—53)

1. A silencer comprising means forming a chamber, said chamber having inlet and outlet openings in opposite walls thereof, open-ended inlet and outlet conduits arranged in juxtaposed relation within said chamber, said inlet and outlet conduits being connected at one end thereof to said inlet and outlet openings, respectively, and each extending from the wall opening to which it is connected part way toward the opposite wall and having an open end located within



said chamber, said inlet and outlet conduits being arranged laterally adjacent one another throughout a portion of their length, the open ends of said conduits located within said chamber being in free and unconfined communication with each other through the space within said chamber, the conduit extending from one wall of said chamber having imperforate walls, and the conduit extending from the other chamber wall having openings in the walls thereof.

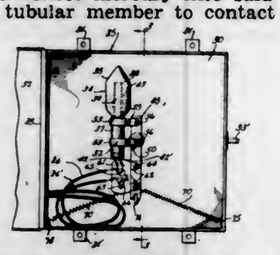
2,166,409
PIPE CARRIER
Samuel P. Hull, Yonkers, and John J. Corcoran, Albany, N. Y., assignors to Railroad Accessories Corporation, New York, N. Y., a corporation of New York
Application October 16, 1936, Serial No. 105,854
11 Claims. (Cl. 308—7)



3. A pipe-hanger device of the class described: said device comprising a bracket adapted to be secured at each end to spaced supports, such as adjacent railroad ties, bridging the space therebetween; said bracket being provided intermediate its ends with at least one roller carrier adapted to support below the rail level a lengthwise movable member, such as an operator pipe or rod in a switch and/or signal actuating system; said device being characterized by means to permit adjustment of said bridge ends slidingly upon said support; and means to permit adjustment of each roller carrier in the space between the ties, and below said rail level, to a selected fixed position with respect to said bridging bracket.

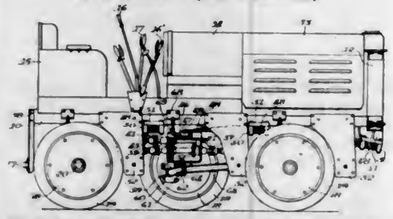
2,166,410
CONTROL DEVICE
John M. Jackson, Los Angeles, Calif.
Application February 21, 1938, Serial No. 191,683
6 Claims. (Cl. 200—152)

1. For use in a device of the class described, a mercury switch comprising a hollow bulb portion having a conical-shaped top, a downwardly extending tubular shank portion, an upwardly extending tubular member in said bulb portion together with said shank portion forming a well, a pair of switch terminals having exposed portions at the bottom of said well, a pool of mercury normally contained in the bulb portion about said upwardly extending tubular member, the conical-shaped top of said bulb portion being adapted to deflect mercury into said upwardly extending tubular member to contact said ter-



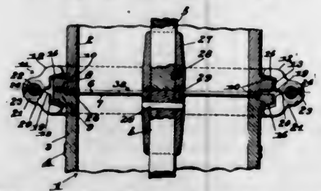
minals when the mercury is thrown against said conical-shaped top of said bulb portion by jarring of the switch.

2,166,411
TRACTOR
Edward A. Johnston, Chicago, and Gustaf W. Engstrom, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application July 3, 1937, Serial No. 151,802
9 Claims. (Cl. 180—22)



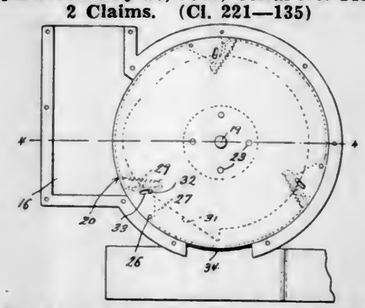
4. In a tractor having a plurality of drive units at each side thereof, the combination with the frame of the tractor, of axle drive housings secured at each side of the frame by means providing for upward movement against spring pressure, an axle extending from each housing, a drive wheel carried by each of said axles, means including gearing in the housings for supplying power to said axles, means for simultaneously applying driving power to all of the axles at either side of the tractor, a supporting member secured to each side of the tractor frame forwardly of each of the housings, and torque rods secured adjacent the lower end of the members and to the housings.

2,166,412
BREAKABLE CONNECTION FOR HYDRANTS
John S. Kiesel, Williamsport, Pa., assignor to Darling Valve and Manufacturing Company, Williamsport, Pa.
Application March 11, 1938, Serial No. 195,388
7 Claims. (Cl. 285—140)



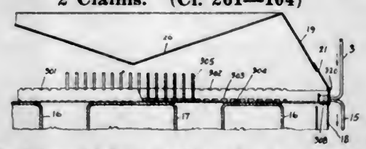
1. A hydrant comprising base and upper sections having confronting annular flanges, a clamp ring composed of segments which are grooved to peripherally fit upon said flanges, said segments being medially scored at the bottoms of the grooves in line with the dividing plane between the flanges so as to provide a thin frangible web, spaced bosses on the confronting upper and lower walls of the grooves for direct metal-to-metal contact with said flanges, and means with which to draw the segments together so as to tighten the clamp ring upon the flanges, the spacing of said bosses compensating for any inequality in the surfaces of the flanges and causing the application of a uniform clamping pressure.

2,166,413
PLANTER
Lamar R. King, Schlater, Miss., assignor of one-half to Webster M. Blain, Greenwood, Miss.
Application May 27, 1937, Serial No. 145,113
2 Claims. (Cl. 221—135)



1. A seed dropper for planters comprising a casing presenting a seed box open at its top and a substantially cylindrical wheel chamber relative to which said seed box is tangentially disposed, said wheel chamber being provided with an opening in the bottom thereof, a hollow seed wheel rotatably mounted in said wheel chamber and having a rim provided with circumferentially spaced openings, seed cups hinged to said rim at one end of said openings and workable outwardly through said openings to receive seed from said box successively as the wheel rotates and to successively dispense said seed through the opening in said wheel chamber, spring devices normally urging said cups outwardly through the openings therefor in the rim of said wheel, and interengaging pin and cam means on said cups and on the walls of said wheel chamber for moving said cups inwardly of the wheel and for retaining said cups, releasably, inwardly of the wheel for a major portion of the revolution of said wheel and for releasing the cups when the same reach the opening in the bottom of the chamber.

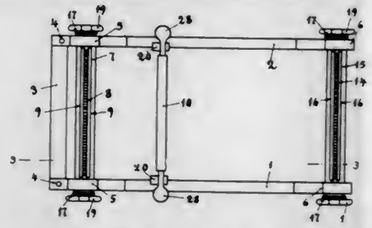
2,166,414
HUMIDIFYING SYSTEM
Otto J. Kuenhold, Shaker Heights, Ohio, assignor to Monmouth Products Company, Cleveland, Ohio, a corporation of Ohio
Application July 31, 1935, Serial No. 34,047
2 Claims. (Cl. 261—104)



1. In a humidifying system for a heated space, the combination of control means for delivering water at a constant rate of flow, means for evaporating water into the air circulated through the

space to be heated, a conduit for transmitting water from said control means to said evaporating means, said evaporating means comprising a water receptacle chamber and a plurality of porous plates projecting transversely and upwardly from said chamber, and means in said chamber for diverting the flow of excess water supplied thereto from passing to that portion of said chamber occupied by said plates.

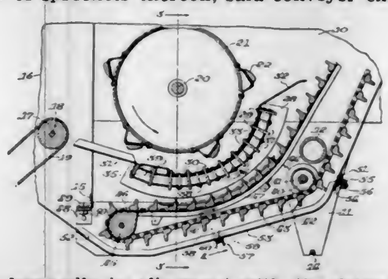
2,166,415
WEAVER'S LOOM
Harald Andersen Lervad, Askov, Vejen, Denmark
Application June 15, 1937, Serial No. 148,379
1 Claim. (Cl. 139—33)



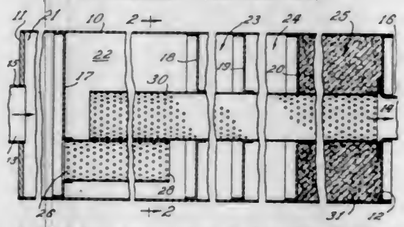
A loom comprising a frame having a pair of longitudinal side members, bearings supported at the ends of said side members, a warp beam roller mounted in the bearings at one end of the frame, said warp beam roller having a series of teeth adapted to receive the ends of the warp threads to be rolled on said beam prior to weaving, a cloth beam roller mounted in the bearings at the other end of the frame adapted to receive the cloth to be woven, a combined raddle heddle and swing frame positioned between said warp and cloth beams, said combined raddle heddle and swing frame comprising a lattice frame having a plurality of alternate vertical slots through which alternate warp threads are passed and vertical bars each having an intermediate hole through which the other warp threads are passed, each side of the frame having a longitudinal slot formed therein, an upright support slidingly adjustably carried by the slot in each side of the frame and each support provided with a series of three vertically spaced notches, a supporting rod carried by the upper portion of said lattice frame and adapted to be positioned in the intermediate series of notches for threading said loom, in the upper series for raising the warp threads passing through the holes in said bars and in the lower series for lowering the warp threads passing through the holes in said bars, and means for securing said upright supports in adjusted positions.

2,166,416
THRESHER
Alexus C. Lindgren, Chicago, and Clemma R. Raney, Riverside, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application December 24, 1936, Serial No. 117,434
4 Claims. (Cl. 130—27)

1. A foldable grain carrier for a harvester thresher having a housing containing and carrying a cylinder and a concave therebelow, said carrier comprising a conveyer having spaced runs with an intermediate portion of one run trained about a pair of sprockets disposed on a shaft parallel to and at the rear of the cylinder, a frame carried on said shaft and extending forwardly below the cylinder and concave and detachably secured adjacent its forward end to a portion of the housing, a second shaft carried by the frame adjacent its forward end and parallel to the first shaft, said shaft carrying a pair of sprockets thereon, said conveyer extending forwardly in alinement with the frame and being trained about said sprockets, whereby the forward end of the frame may be detached from the housing and swung downwardly about the first shaft as a pivot, together with the aforesaid portion of the conveyer thereon to expose the concave and the cylinder.



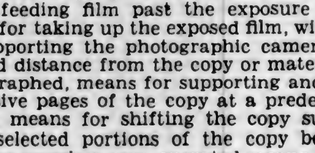
2,166,417
SILENCER
Willis L. Manning, Madison, Wis., assignor to Burgess Battery Company, Chicago, Ill., a corporation of Wisconsin
Application July 1, 1938, Serial No. 216,856
15 Claims. (Cl. 181—54)



1. A silencer comprising a chamber having inlet and outlet openings in opposite walls thereof, open-ended inlet and outlet conduits arranged in juxtaposed relation within said chamber, said inlet and outlet conduits being connected at one end thereof to said inlet and outlet openings respectively and each extending from the wall opening to which it is connected part way toward the opposite wall and having an open end located within said chamber, said inlet and outlet conduits having openings in the walls thereof and being arranged laterally adjacent one another throughout a portion of their length, the open ends of said conduits located within said chamber being in free and unconfined communication with each other through the space within said chamber.

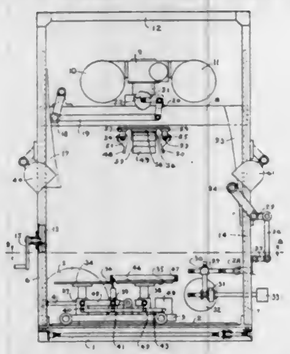
2,166,418
METHOD OF ROLLING
William C. McBain, Youngstown, Ohio, assignor to The Cold Metal Process Company, Youngstown, Ohio, a corporation of Ohio
Application April 21, 1934, Serial No. 721,747
12 Claims. (Cl. 80—60)

1. In a method of rolling strip, the steps including entering strip while cold between reducing rolls and pulling it therefrom at an angle to the common tangent to said rolls, and subjecting the strip during rolling to a tension such that the



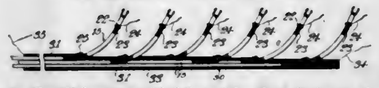
tensile stress in the strip exceeds the elastic limit of the material only adjacent the points at which the strip is bent around one of said rolls.

2,166,419
MICROPHOTOGRAPHIC APPARATUS
John Hugh O'Neill, Arlington, Va.
Application December 18, 1937, Serial No. 180,648
1 Claim. (Cl. 88—24)



In a microphotographic apparatus, the combination of a photographic camera including detachable means for containing unexposed film, detachable means for containing exposed film, a camera body, a film support, an exposure opening, electrically operated means for intermittently feeding film past the exposure opening, means for taking up the exposed film, with means for supporting the photographic camera at the selected distance from the copy or material to be photographed, means for supporting and holding successive pages of the copy at a predetermined height, means for shifting the copy support to bring selected portions of the copy before the exposure opening, cam-operated means for automatically focusing the camera lens, cam-operated means for automatically increasing the exposure time when the camera is placed nearer the copy and decreasing the exposure time when the camera is moved farther away from the copy, electric motor driven cycle means comprising starting switch, timer barrel, timer barrel driving electric motor and control contacts, a plurality of electric contacts adjacent to said timer barrel, a plurality of cams on said timer barrel adapted, at predetermined intervals, to close and open said electric contacts, said electric contacts being adapted to furnish electric current to electrically operable means for closing said copy-holding means, for opening and closing the camera shutter, for providing additional duration of shutter opening, for indexing the film, for optionally providing continuous running of the cycle, for shifting the copy support a predetermined amount, and for opening the copy-holding means, an audible signal when the last end of the unexposed film approaches the said exposure opening, a visible signal located outside the camera to indicate the occurrence and duration of the shutter opening, and scanning means to indicate the area of copy included in the image on the film.

2,166,420
IGNITION MANIFOLD CABLE
Edwin A. Robertson, Detroit, Mich., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application December 15, 1928, Serial No. 326,201
Renewed November 26, 1938
24 Claims. (Cl. 174—72)



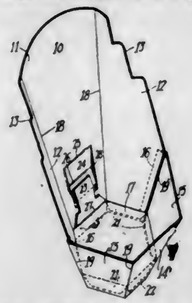
1. A flexible manifold cable for internal combustion motors, comprising a plurality of rubber covered conductors of varying lengths, spark plug terminals on one end of each of said conductors, said terminals including an insulating sleeve having an annular groove, a covering comprising a fabric braid, lacquer coating and paraffin coating for each of said conductors, a metal braid starting in the annular groove of said terminal sleeve and extending back a distance from the end of each conductor, loose strand ends extending from both extremities of said braid, one end for grounding and the other end for bonding along the trunk of the cable, a rubber sheath tightly molded upon said several conductors and upon the inner ends of said metal braids to form a rigid connection where the conductors enter the assembly but permitting slidable movement at other points within the assembly, a metal braid on said assembly, said inner braid strand of the conductors being brought out of the sheath and bonded to said assembly braid, loose strand ends on the extremities of the assembly braid for grounding, and supporting clamps for grounding said assembly braid at intermediate points.

2,166,421
MANUFACTURE OF REINFORCED SHOE BOTTOM UNITS
John M. Whelton, Peabody, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application February 4, 1938, Serial No. 188,643
6 Claims. (Cl. 12—146)



1. That improvement in methods of making reinforced insole units which consists in providing an insole and a shank reinforcing piece which is wider than the shank portion of the insole, assembling and securing together said parts with said reinforcing piece covering the upper side of the shank portion of said insole thereby providing a reinforced insole unit, and progressively beveling a lateral margin of said reinforcing piece and a corresponding lateral margin of the shank portion of said insole at the lower side of said unit while gaging the location of the beveling cut from the edge of the insole at points in advance of the point of operation of the beveling means so as to impart to the upper side of said reinforcing piece a lateral edge contour corresponding to the original lateral edge contour of said insole.

2,166,422
DISPLAY RECEPTACLE
John Ciofalo, Brooklyn, and Joseph Ciofalo, Yonkers, N. Y.
Application July 14, 1937, Serial No. 153,468
2 Claims. (Cl. 229—41)



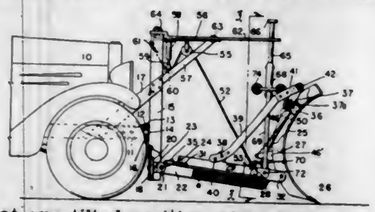
1. In a display receptacle, in combination, a body providing walls, one of which has an opening therein, a hinge tongue in said opening, a bottom for the receptacle having edges for engagement with the walls, a tab and a flap on said bottom, the flap constituting a hinging means for foldably securing the bottom to one of said walls and the tab being connected to said tongue to coact with the flap in supporting the bottom in open position between the walls.

2,166,423
HYDRAULIC DEVICE
Max J. Clark, Pontiac, Mich.
Application May 4, 1936, Serial No. 77,738
17 Claims. (Cl. 60—52)

1. In a hydraulic device for effecting hydraulic feeds or the like, a pump of variable discharge, an operating cylinder, a piston reciprocable in said cylinder and actuated by the pressure of discharge of said pump, and means operated at a predetermined time by the back pressure created in said cylinder by said piston for changing the rate of discharge of said pump in substantially inverse proportion to the magnitude of said back pressure.

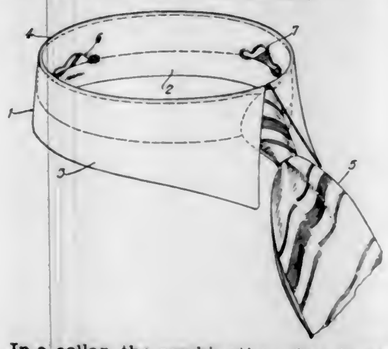
2,166,424
SNOW PLOW
Frank Coates, Corydon, Iowa, assignor of one-half to John J. Beadle, Corydon, Iowa
Application May 10, 1937, Serial No. 141,781
17 Claims. (Cl. 37—42)

16. In a structure of the kind described, a frame, a second frame pivoted to the first frame on a horizontal axis, a mouldboard pivoted to said second frame, a single means for tilting the mouldboard from end to end without raising or lowering the center of the mouldboard and for simultaneously tilting the second frame correspondingly and for causing the mouldboard to



stay at any tilted position while being raised or lowered by movement of the second frame.

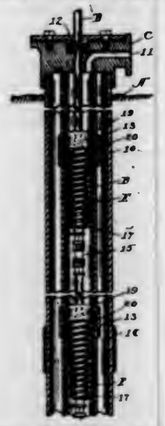
2,166,425
COLLAR
John J. Cunningham, New York, N. Y.
Application February 15, 1938, Serial No. 190,543
4 Claims. (Cl. 2—137)



1. In a collar, the combination of an inner fold and an outer fold between which a necktie is adapted to be accommodated, said inner fold being provided at the rear of said collar with a cut out portion forming a tab having an ogee curve, said tab being adapted to be bent out of the said inner fold toward the outer fold and providing between said inner fold and tab a guideway for holding a necktie toward the folded upper edge of said collar, and a second similarly formed tab positioned intermediate said first tab and the front of said collar, the base of said second tab being inclined upwardly and forwardly.

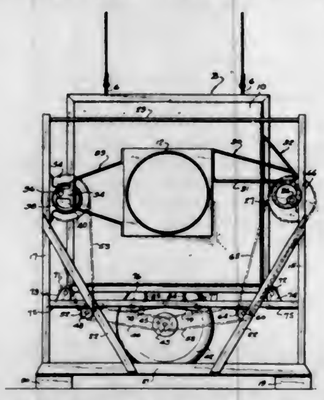
2,166,426
EQUALIZER FOR SUCKER RODS
James T. Dickson, Los Angeles, Calif.
Application March 27, 1937, Serial No. 133,416
1 Claim. (Cl. 103—206)

In a pumping apparatus, a pump casing having a longitudinal series of tubular sections, an external coupling sleeve by which abutting ends of said sections are joined, a ring clamped between said sections by said sleeve and projecting into said casing to form a narrow annular inner abutment, a reciprocable sectional sucker rod extending downwardly in said casing for operating a pump, a section thereof having an integral coupling member by which adjacent sections of said rod are separably connected, the member of the coupling on one end of a sucker rod section being formed with a solid cylindrical body having an external helical thread groove therein, a helical spring tapering longitudinally in diameter over said sucker rod having its small end engaged to said body in said thread groove, a collar separate and freely disposed from said casing and over said sucker rod and of larger internal diameter than the external diameter of said sucker rod body having an internal helical thread groove therein in which the free large end of said spring is engaged, said collar being adapted to lodge freely



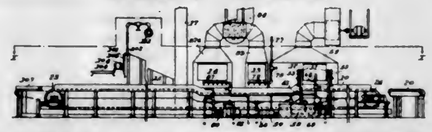
upon said abutment and freely allowing the sucker rod, spring and collar carried by said spring to be elevated in the casing and said spring when stretched and collar providing increased clearance for the free circulation of liquid longitudinally in said casing.

2,166,427
APPARATUS FOR TEMPERING GLASS
John L. Drake, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 4, 1935, Serial No. 48,187
4 Claims. (Cl. 49—45)



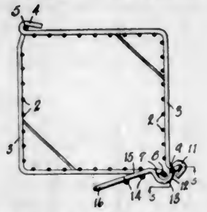
1. In apparatus for use in the tempering of glass sheets wherein the sheet is first heated to substantially the softening point of the glass and then suddenly cooled, means for cooling the sheet including spaced blower heads for receiving the heated glass sheet therebetween and being oscillatable in the plane of said sheet, means for driving each blower head including an eccentric for supporting the said head at one side thereof, and a rotatable cam for freely supporting the said blower head at its opposite side.

2,166,428
METHOD AND APPARATUS FOR TREATMENT OF GLASS AND SIMILAR WARE
David Irvin Du Bois, Millville, N. J., assignor, by mesne assignments, to Armstrong Cork Company, Manheim Township, Lancaster County, Pa., a corporation of Pennsylvania
Application August 23, 1934, Serial No. 741,042
Renewed June 22, 1938
18 Claims. (Cl. 41—9)



1. The method of etching glassware and similar articles which includes the steps of continuously moving in a longitudinal direction a plurality of spaced groups of articles while conducting the following steps in the order mentioned: subjecting a group to a downwardly directed etching spray having a uniform temperature and strength, tilting the articles sufficiently to drain the etching solution off the articles and to cause a lateral downflow of the solution over the surface thereof, and simultaneously with the tilting, directing an air jet against the articles, passing the articles through a dripping and fume removing zone, subjecting the articles to a downwardly directed spray of cold water, passing the articles through a second dripping and fume removing zone, subjecting the articles to a downwardly directed spray of hot water, tilting the articles sufficiently to drain water off the tops of the articles, subjecting the articles to heated air currents for drying them, and thence, removing the ware.

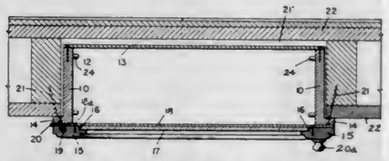
2,166,429
SECURING MEANS FOR MEAT MOLDS
Arnold Faulkner, Battle Creek, Mich., assignor to United Steel and Wire Company, Battle Creek, Mich.
Application September 6, 1938, Serial No. 228,497
7 Claims. (Cl. 292—218)



1. In a meat mold having a pair of hinged portions of wire construction adapted to form a closure, means for locking the portions in assembled relation comprising a pair of loops carried by said respective portions, the loops of each pair extending to positions adjacent one another, one of the loops of each pair having a pair of curved bulges thereon providing journals, and latch members for drawing the loops of each pair together and securing and locking the same in position, comprising a pair of elements each having a pair of integral bights, one of the bights of each latch element being restricted and pivoted on the loop bulge at opposite sides of the respective mid points of said bulges and the other of the bights of each element being open and adapted to encircle the loop of the other portion to hold the portions in locked relation, the dis-

position of said bights relative to said mid points causing a frictional binding action when the latch members are pivotally shifted to frictionally resist displacement of the portions from such relation.

2,166,430
WALL CABINET
Earl E. Green, Clinton, Iowa, assignor, by mesne assignments, to Curtis Companies Incorporated, Clinton, Iowa, a corporation of Iowa
Application August 23, 1937, Serial No. 160,502
1 Claim. (Cl. 88—100)



A door for a cabinet structure, comprising a frame having a rabbet extending entirely around its rear face adjacent the opening in the frame, a mirror received in the rabbet having its rear face flush with the rear face of the door frame, a sheet entirely covering the back of the door frame and thus holding the mirror in place, an edge of said sheet being notched to receive the leaves of hinges and hinges each having a leaf secured to a door frame on which the door is mounted and having another leaf, the two leaves being of substantially the same thickness as the backing sheet and received in the notches thereof.

2,166,431
PROCESS FOR RESOLVING PETROLEUM EMULSIONS
Melvin De Groote, University City, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware
No Drawing. Application May 31, 1938, Serial No. 211,036
6 Claims. (Cl. 196—4)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising products of the kind derivable by esterification reaction between (A) an amine of the formula type

$$(OH.RCOO.C_nH_{2n})_m N\begin{matrix}(H)_{m'}\\(T)_{m''}\end{matrix}$$

in which OH.RCOO represents the oxy-acyl radical derived from a hydroxylated fatty acid; T represents a non-hydroxy hydrocarbon radical or the acylated radical obtained by replacing a hydrogen atom of the hydroxyl group of an alkylol radical by the acyl radical of a monobasic carboxy acid having less than 32 carbon atoms; n represents a small whole number which is less than 10; m represents the numeral 1, 2 or 3; m' represents the numeral 0, 1 or 2, and m'' represents the numeral 0, 1 or 2, with the proviso that $m+m'+m''=3$; and (B) an acidic ester derived by reaction between a polybasic carboxy acid and a hydroxylated fatty acid compound; said fatty acid compound being characterized by the absence of any hydroxy hydrocarbon radical as a substituent for the hydrogen atom in the carboxyl part of the hydroxy fatty acid radical; said acidic ester being characterized by the presence of at least one carboxyl radical.

2,166,432
PROCESS FOR RESOLVING PETROLEUM EMULSIONS
Melvin De Groote, University City, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware
No Drawing. Application May 31, 1938, Serial No. 211,037
7 Claims. (Cl. 196—4)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising products of the kind derivable by esterification reaction between (A) an amine of the formula type

$$(R.COO.C_nH_{2n})_m N\begin{matrix}\\(T)_{m''}\\(OH.C_nH_{2n})_{m'}\end{matrix}$$

in which R.COO represents the oxy-acyl radical derived from a detergent-forming monocarboxy acid having not more than 32 carbon atoms; T represents a hydrogen atom or a non-hydroxy hydrocarbon radical or the acylated radical derived by replacing a hydrogen atom of the hydroxyl group of an alkylol radical by the acyl radical of a monobasic carboxy acid having less than 8 carbon atoms; n represents a small whole number which is less than 10; m represents the number 1 or 2; m' represents the number 1 or 2, and m'' represents the number 0 or 1, with the proviso that $m+m'+m''=3$; and (B) an acidic ester derived by reaction between a polybasic carboxy acid and a hydroxylated fatty acid compound; said fatty acid compound being characterized by the absence of any hydroxy hydrocarbon radical as a substituent for the hydrogen atom in the carboxyl part of the hydroxy fatty acid radical; said acidic ester being characterized by the presence of at least one carboxyl radical.

2,166,433
PROCESS FOR RESOLVING PETROLEUM EMULSIONS
Melvin De Groote, University City, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware
No Drawing. Application May 31, 1938, Serial No. 211,038
6 Claims. (Cl. 196—4)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising products of the kind derivable by esterification reaction between (A) an amine of the formula type:

$$(OH.RCOO.C_nH_{2n})_m N\begin{matrix}(H)_{m'}\\(T)_{m''}\end{matrix}$$

in which OH.RCOO represents the oxy-acyl radical derived from a hydroxylated fatty acid; T represents a non-hydroxy hydrocarbon radical or the acylated radical obtained by replacing the hydrogen atom of the hydroxyl group of an alkylol radical by the acyl radical of a monobasic carboxy acid having less than 32 carbon atoms; n represents a small whole number which is less than 10; m represents the numeral 1, 2 or 3; m' represents the numeral 0, 1 or 2, and m'' represents the numeral 0, 1 or 2, with the proviso that $m+m'+m''=3$; and (B) an acidic ester derived by reaction between a polybasic carboxy acid and a hydroxylated ester of a monobasic detergent-forming carboxy acid of the kind in which there is at least one hydroxyl radical attached to the alcohol residue; said acidic ester being characterized by the presence of at least one carboxyl radical.

2,166,434
PROCESS FOR RESOLVING PETROLEUM EMULSIONS
Melvin De Groote, University City, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware
No Drawing. Application May 31, 1938, Serial No. 211,039
7 Claims. (Cl. 196—4)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising products of the kind derivable by esterification reaction between (A) an amine of the formula type:

$$(R.COO.C_nH_{2n})_m N\begin{matrix}\\(T)_{m''}\\(OH.C_nH_{2n})_{m'}\end{matrix}$$

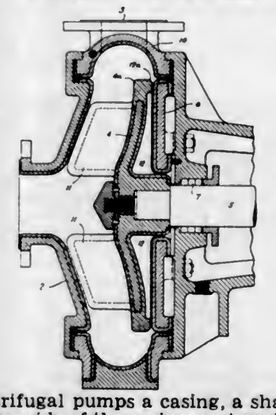
in which R.COO represents the oxy-acyl radical derived from a monobasic detergent-forming carboxy acid; T represents a hydrogen atom or a non-hydroxy hydrocarbon radical or the acylated radical obtained by replacing a hydrogen atom of the hydroxyl group of an alkylol radical by the acyl radical of a monobasic carboxy acid having less than 8 carbon atoms; n represents a small whole number which is less than 10; m represents the numeral 1 or 2; m' represents the numeral 1 or 2, and m'' represents the numeral 0 or 1; with the proviso that $m+m'+m''=3$; and (B) an acidic ester derived by reaction between a polybasic carboxy acid and a hydroxylated ester of a monobasic detergent-forming carboxy acid of the kind in which there is at least one hydroxyl radical attached to the alcohol residue; said acidic ester being characterized by the presence of at least one carboxyl radical.

2,166,435
METHOD OF FORMING INNER TRIM PANELS
Alfred H. Haberstump, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application February 11, 1937, Serial No. 125,249
5 Claims. (Cl. 154—2)



1. The method of forming padded inner trim panels which comprises adhesively securing a layer of loosely felted non-woven fibrous padding material to a backing sheet, coating cutting knives with liquid adhesive material, utilizing said cutting knives to cut through said padding material to emboss the same and at the same time to deposit liquid adhesive in the bases of said lines of cut, whereby said liquid adhesive will not only serve to bond together the ends of the cut fibrous material but will bond the same to said backing sheet, stretching a section of fabric finish material over said padded backing sheet and securing the same to said backing sheet in the bases of said lines of cut.

2,166,436
CENTRIFUGAL PUMP
Walter Fred Harlow, Duffield, England
Application January 27, 1938, Serial No. 187,103
In Great Britain April 26, 1937
1 Claim. (Cl. 103—115)



In centrifugal pumps a casing, a shaft extending into one side of the casing, an impeller mounted on the shaft, said impeller comprising a center disc, main vanes mounted on the disc on the side opposite to the shaft, auxiliary vanes of larger diameter than the main vanes mounted on the disc on the side toward said impeller shaft, the outer annular part of said disc and the adjacent peripheral portions of said auxiliary vanes being made wholly of solid rubber, and the remaining portions of the auxiliary vanes comprising a core of rigid material.

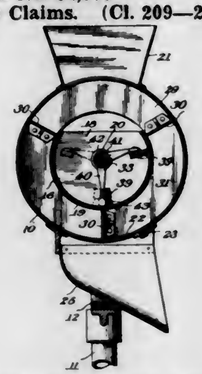
2,166,437
MIXING AND MOLDING DEVICE
Robert K. Howie and James E. Howie, Chicago, Ill.
Application February 16, 1938, Serial No. 190,801
7 Claims. (Cl. 259—47)



1. In a mixing and molding device, the combination of a barrel for receiving the material to be mixed, closures for the ends of the barrel, a rod slidably mounted in one of said closures and extending into the barrel, a handle for said rod, a pair of mixing and discharging discs mounted on the rod within the barrel and relatively adjustable longitudinally of the rod where-

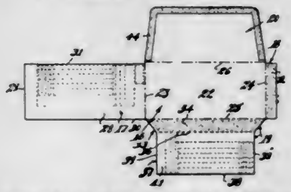
by they may be adjusted to mixing position or to discharging position, each of said discs having holes therethrough and having imperforate portions positioned so that when the discs are brought together the imperforate portions of one disc will cover the holes in the other disc to form a piston and means for adjusting said discs from mixing to discharging position and vice versa.

2,166,438
FLOUR SIFTING MACHINE
Donald G. Jensen, Cincinnati, Ohio, assignor to The Hobart Manufacturing Company, Troy, Ohio, a corporation of Ohio
Continuation of application Serial No. 4,953, February 4, 1935. This application June 11, 1936, Serial No. 84,778
9 Claims. (Cl. 209—240)



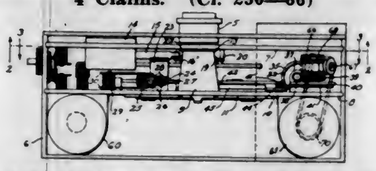
1. A flour sifting machine comprising a sifting screen of generally cylindrical form forming a screen chamber, a cylindrical housing in which said screen is disposed to define an annular chamber exterior to the screen, means continuously moving in said annular chamber to successively return the flour to the screen and means operating over said screen to effect the sifting of flour therethrough into said annular chamber at a rate correlated with that of the moving means to provide desired distribution of the flour in substantial part in both said screen chamber and in said annular chamber.

2,166,439
COMBINATION BUSINESS FORM AND ENVELOPE
Harold Lane Johnson, Chicago, Ill.
Application December 20, 1937, Serial No. 180,707
7 Claims. (Cl. 282—25)



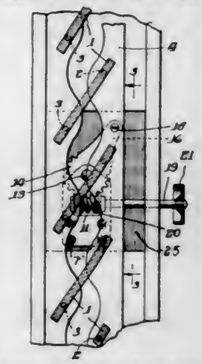
3. An article of the character described comprising a main panel, a plurality of auxiliary flaps folded against the back of said main panel adhesively secured together forming a pocket, a business form panel secured to one of said flaps, and a sealing flap having gummed peripheral portions adapted to be sealed to said auxiliary flaps, said business form panel being of lesser dimensions than said sealing flap, and adapted to be covered thereby, the sealing portions of said sealing flap adapted to lie without the area of said business form panel.

2,166,440
CAMERA
Charles F. Jones, Burlingame, Calif.
Application February 7, 1936, Serial No. 62,807
4 Claims. (Cl. 250—66)



1. Apparatus for the production of Roentgen ray photographs which includes: a fluoroscope having a fluorescent screen adapted to receive Roentgen rays upon their passage through a body; a mirror angularly disposed in back of said screen within said fluoroscope and positioned to receive light rays therefrom; and a camera provided with a lens focussed on said mirror, the optical axis of said lens being substantially parallel to the plane of said screen, said camera being provided with a shutter and mechanism for opening said shutter to expose a film in said camera and automatically advancing said film one frame distance upon the closing of said shutter.

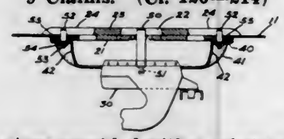
2,166,441
LOUVER CONSTRUCTION
Earl Phillip Jones, Fort Lauderdale, Fla., assignor to Gate City Sash & Door Company, Fort Lauderdale, Fla., a corporation of Florida
Application July 24, 1937, Serial No. 155,391
3 Claims. (Cl. 268—96)



1. In combination with a window frame, with a shallow open recess in one side thereof, facing the opposite other side, shutters pivoted at their ends on the opposite sides of the frame, a vertically disposed flat member pivoted on the end of each shutter, so the end of each shutter has two pivots, one fixed and the other movable about the axis of the fixed pivot, interposed snugly between the ends of the shutters and said recessed side of the frame, a vertically disposed bracket plate secured in said recess, by screws inserted through its lower portion into the closed inner side of said recess, so that said plate is disposed in a vertical plane between said member and the back of said recess, a pivot on the upper

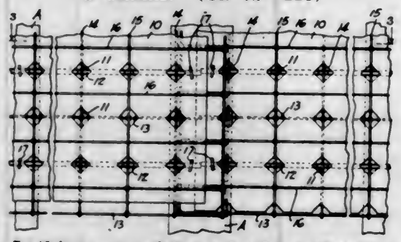
end of said plate, a gear wheel on said pivot, rotating in a vertical plane between said member and said plate, a pivot on said member, an arm rigid with said wheel and engaging said last mentioned pivot, bearings on said plate, below said wheel, a horizontal rod in said bearings, so that said rod rotates about an axis at right angles to the axis of said wheel, and a worm on said rod, engaging the lower edge of said gear wheel, so that by rotation of said rod all of the shutters are operated, said plate and wheel and arm and worm being entirely within said recess, so that the open outer side of the latter is flush to permit free movement of said member close thereto, and said wheel being spaced from said member a distance to bring this wheel into the vertical plane of the axis of said worm, with said member presenting one flat side to said recess and the other flat side to the ends of the shutters.

2,166,442
COOKING STOVE
Bertrand B. Kahn, Cincinnati, Ohio, assignor to The Estate Stove Company, Hamilton, Ohio, a corporation of Ohio
Application September 17, 1937, Serial No. 164,321
9 Claims. (Cl. 126—214)



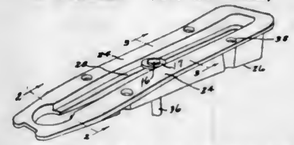
3. In a stove provided with a substantially solid cooking top having at least one grate opening therein, a burner supported below said opening, an annular shield surrounding said burner and extending to the periphery of said opening, a removable grate positioned over said burner at said opening to normally maintain a combustion space above said burner, said grate having portions thereof extending above said cooking top, a plurality of spaced upstanding lugs carried by said shield, an upstanding lug carried by said burner substantially centrally of the grate opening, said lugs extending above the cooking top for a distance not greater than the height of said upwardly extending portions of the grate, and said grate being provided with openings adapted to receive said lugs.

2,166,443
LATHING
Carl A. Karelius, Pasadena, Calif.
Application January 25, 1938, Serial No. 186,831
8 Claims. (Cl. 72—116)



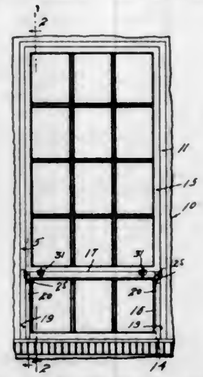
1. Lathing comprising a backing sheet having openings therein; stiffener members arranged in spaced parallelism at one side of said sheet and spanning said openings; rear wires arranged intermediate and parallel to said members at said one side of said sheet, and spanning others of said openings; other rear wires intersecting and secured to said members and first said rear wires at said openings; and means co-acting with the stiffener members and wires to secure them against displacement from the backing sheet.

2,166,444
WEDGE FOR USE WITH WALL TIES
Arthur M. Kinninger and Carl A. Kinninger, Dayton, Ohio
Application March 2, 1936, Serial No. 66,668
5 Claims. (Cl. 25—131)



4. For use with a wall tie having a shoulder, a wedge including a pair of angularly disposed working surfaces, one of which is engageable with the shoulder of the tie and the other of which is engageable with the wall for producing varying degrees of wall adjustment by movement of the wedge relative to the tie shoulder and the wall, and a shoulder engaging surface angularly disposed to at least one of the said pair of angularly disposed working surfaces to form therewith a second pair of angularly disposed shoulder and wall engaging working surfaces of different relative angularity than that of the first named pair of working surfaces and selectively positionable between the tie shoulder and the wall whereby to produce different degrees of wall adjustment by a like degree of wedge movement.

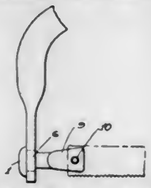
2,166,445
VENTILATING WINDOW SASH
Hugh M. McClure, Kearney, Nebr.
Application March 3, 1937, Serial No. 128,729
6 Claims. (Cl. 20—53)



3. In a window structure, a window frame, a window sash mounted in said frame, stop means for limiting outward movement of the sash, supporting rails extending inwardly from opposite sides of the window frame laterally adjacent opposite vertical edges of the sash, trunnion means provided at opposite upper side portions of the sash and projecting laterally over said supporting rails, said supporting rails being formed adjacent the window frame to afford sash lifting cam surfaces that taper upwardly and inwardly from the arc of a circle having its axis

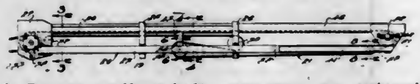
in the vicinity of the lower edge of the sash and which arc has a radius equal to the measurement between its axis and the rail engaging portions of the trunnions, said initial sash lifting cam surfaces intersecting said arc at a point inward of the sash closed positions of the trunnions, so that the trunnions will be free thereof and the sash will rest upon its lower edge portion when in an extreme closed position but will engage the cam surface under initial inward movements of the upper portion of the sash, said cam surfaces being of such angularity and extent that under movement of the trunnions thereon the sash will be lifted and held in suspension thereby, those portions of the guide rails inward of the sash lifting cam surfaces being shaped to retain the sash in suspended condition under movements of the trunnions thereover, and means slidably engaging the lower portion of the sash and serving as a fulcrum for the sash under inward opening pivotal movements of the sash.

2,166,446
BLADE HOLDING MEANS FOR HACKSAWS AND THE LIKE
Dwight E. Priest and Harry P. Macomber, Worcester, Mass., assignors to Parker Wire Goods Company, Worcester, Mass., a corporation of Massachusetts
Application February 5, 1937, Serial No. 124,278
1 Claim. (Cl. 145—33)



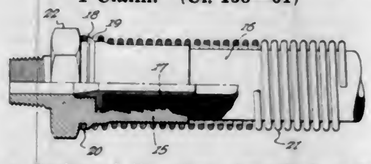
In a hack saw, a frame, and a blade holder separable from said frame and comprising a shank having at one end an integral head and near the other end a laterally projecting blade-engaging pin, said shank being receivable in a regular polygonal saw-frame aperture of more than three sides and of such size as to exclude said head, and said shank adjacent said head comprising an intermediate reduced section of a size smaller than said aperture and an end portion of polygonal cross-section fitting said aperture and preventing turning of the holder therein when said head abuts the frame, the shank portion in the zone of said pin presenting a substantially flat blade-contacting surface from which said pin projects, and said surface having a width so much greater than the shank diameter as to require its cornerwise presentation to the saw-frame aperture, for passage of said shank portion therethrough.

2,166,447
BELT CONVEYER
Norman P. Ruppenthal, Detroit, Mich., assignor to General Conveyors Corporation, a corporation of Michigan
Application December 27, 1937, Serial No. 181,735
3 Claims. (Cl. 198—139)



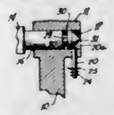
1. In an endless belt conveyer, an extensible and retractable conveyer platform, a power driven conveyer belt movable over said platform, means operable upon extension of said platform to elongate the effective conveying length of said belt and upon retraction of said platform to shorten the effective conveying length of said belt, said extensible and retractable conveyer platform comprising telescopically arranged supporting and extensible sections, said supporting section having a guide rail extending longitudinally and horizontally along each lower side edge and a guide channel extending longitudinally and horizontally along each upper side edge, and said extensible member having a plurality of rollers positioned to ride in said guide rails and a pair of longitudinally extending flanges slidably fitted in said guide channels.

2,166,448
HOSE PROTECTOR
Walter C. Schuknecht and George N. Jagemann, Manitowoc, Wis., assignors to Eastman Manufacturing Company, Manitowoc, Wis.
Application November 19, 1937, Serial No. 175,403
1 Claim. (Cl. 138—61)



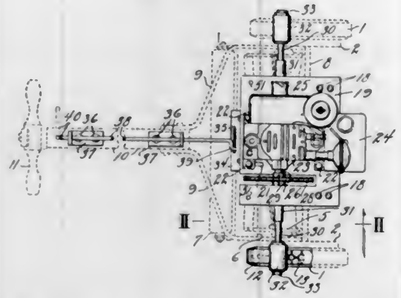
In a device of the class described, a flexible member, a coupling secured to said flexible member and having a portion projecting over said flexible member and forming a rigid cylindrical extension, said coupling having a second cylindrical portion located inwardly of said cylindrical extension and of larger diameter than said cylindrical extension, said coupling having an annular flange between said second cylindrical portion and said cylindrical extension, and a helical spring guard extending over said cylindrical extension and over said second cylindrical portion and having an end convolution located rearwardly of said flange and tightly gripping said second cylindrical portion, said second cylindrical portion being of such increased size as to provide for tight engagement between said portion and said end convolution while leaving the remainder of said guard freely movable on said cylindrical extension and flexible member.

2,166,449
BASIN WRENCH
Louis Sharpe, Chicago, Ill.
Application December 27, 1938, Serial No. 247,818
3 Claims. (Cl. 81—98)



1. A wrench including pivoted jaws, one of said jaws having a mounting stud projecting therefrom normally to the pivotal axis thereof, an elongated handle member provided with a transverse bore, said stud being inserted in said bore for rotative movement, a detent member mounted on said handle near said bore for movement in a direction transversely into said stud, spring means normally urging said detent member into engagement with said stud, said stud having a plurality of detent engaging formations arranged circumferentially thereabout and aligned for engagement with the detent member by rotative movement of the stud and jaws relative to said handle, said stud being provided with a detent track circumscribing the same through said detent engaging formations whereby said detent member may be withdrawn from said detent engaging formations while remaining in said detent track to permit rotative movement of the stud and prevent withdrawal of the stud from said bore.

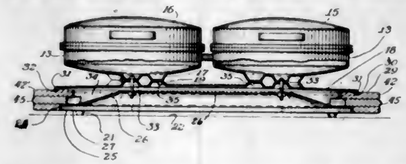
2,166,450
ADAPTABLE MOUNTING FOR PRIME MOVERS TO ACT ON GROUND WHEELS
Frazey B. Smalley, Toledo, Ohio
Application November 3, 1938, Serial No. 238,565
2 Claims. (Cl. 180—19)



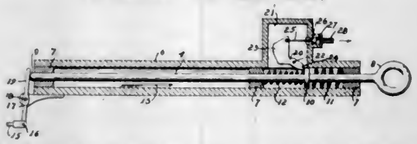
1. For equipment having a pair of ground wheels, housing means locating the ground wheels in parallel, spacer bar means between the wheels, and a directing handle for steering the housing means, a deck, bracket means rigid with and depending from the deck between the wheels independent of the handle and mounting the deck to rock on the axis of said bar means, a prime mover mounted on the deck laterally of the bar means to load the deck to rock downward on said bar means axis, a shaft parallel to the axis of rotation of the wheels, friction wheels on said shaft for directly contacting the ground wheels, mounting means for the shaft fixed with and below the plane of the deck laterally from the axis of the bar means on the same side thereof as the prime mover to cause the loading of the deck to urge the traction wheels toward the ground wheels, speed reduction from the prime mover to the shaft, and transmission control means along the handle including a control part movable relatively to the handle to sustain the deck in a position to locate the friction wheels out of contacting relation with the ground wheels, said control being operable to shift said part away from sustaining the deck for the deck to rock on the bar means as an axis and thus bring the friction wheels against the ground wheels.

2,166,451
INSULATING BASE FOR AN ELECTRIC APPLIANCE
Howard A. Smith, St. Louis, Mo., assignor to Knapp-Monarch Company, St. Louis, Mo., a corporation of Missouri
Application January 26, 1938, Serial No. 187,007
13 Claims. (Cl. 53—10)

1. In an electric appliance supporting means a pair of independent plate like metallic parts, a relatively thick non-metallic ring of insulating material, means for supporting said ring close to a table top or the like, means at the central portions of the metallic parts remote from the ring and table top cooperable in clamping said parts to opposite sides of the ring in spaced relation to each other, and means for attaching the appliance to one of said parts.

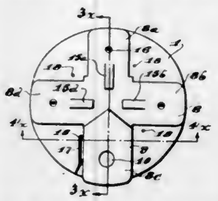


2,166,452
BRAKE CONTROL
John Therres, Norwalk, Calif.
Application March 29, 1938, Serial No. 198,671
3 Claims. (Cl. 188—142)



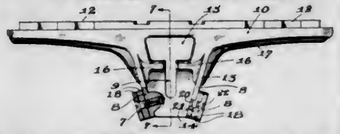
1. A brake mechanism comprising, a tubular member rigidly mountable upon a trailer end and having a bearing disposed in each end thereof and a third bearing disposed therein adjacent the end bearing remote from the trailer end, a push-rod slidably engaging the bearings and passing completely through the tubular member and provided at one end with means for attaching to a tractor, said rod having a flange fixedly mounted thereon between the two adjacent bearings, springs inserted in the tube to bear against the adjacent bearings and opposite sides of the flange, and a lever mounted on the trailer end of the tube, one end of the lever being adapted to be connected to a brake rod and the other end being disposed to contact the adjacent end of the push rod.

2,166,453
COVER FOR OUTLET BOXES
George H. Wagar, Sr., Rochester, N. Y., assignor of one-third to John R. Byers, Jr., Rochester, N. Y.
Application June 27, 1938, Serial No. 216,002
4 Claims. (Cl. 173—330)



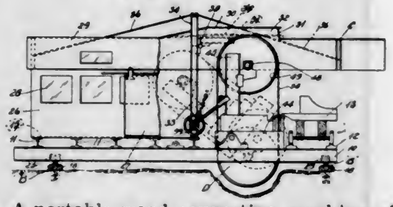
1. A cover for an outlet box having supporting ribs thereon, said cover being made of insulating material, a guide plate of insulating material supported on said ribs and suitably spaced from the cover thereby, positive and negative contacts supported on the cover on opposite sides of said ribs, said guide plate having arms thereon that overhang the contacts, a plug adapted to slidably engage one of said arms and being guided thereby, contacts on said plug adapted to make sliding engagement with the contacts on the plate.

2,166,454
ANTISKID DEVICE
William P. Wannemacher, Bloomington, Ill.
Application March 17, 1936, Serial No. 69,379
4 Claims. (Cl. 152—220)



1. In an anti-skid device for plural spaced tires mounted on a single wheel, the combination with a chain adapted to normally be disposed within the space between said tires, a lug comprising a plate adapted to be positioned at substantially right angles to the plane of revolution of the tires, flanges projecting inwardly from said plate, a web connecting said flanges and provided with an opening to receive said chain, the opposite walls of said web and the opening therein serving to hold the lug in a selected position without any substantial change thereto under tractive and braking efforts, and one or more shims adapted to be added to the outer surfaces of the flanges to occupy the space between adjacent tires whereby to minimize a twisting of the lug in respect to the tires.

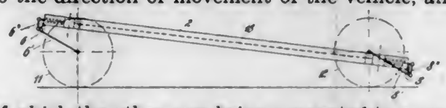
2,166,455
PORTABLE WOOD CONVERTING MACHINE
Grover C. Wetherbee, Saginaw, Mich.
Application April 22, 1936, Serial No. 75,755
5 Claims. (Cl. 143—17)



4. A portable wood converting machine of the class described and comprising a main frame including vertical supports, a saw husk unit pivotally mounted, off center, on said frame, an internally threaded nut pivotally mounted on the husk unit, a threaded shaft mounted in said nut, and manually operable means mounted on said vertical support for actuating said shaft to tilt said unit, and control mechanism on the saw husk unit for tensioning the saw guide and adjusting the upper band wheel on said husk unit, said mechanism including spaced apart threaded shafts, a guide adjustably mounted on each shaft and operatively connected with the upper band wheel, means for actuating each shaft to adjust each guide independently of the other guide, means for locking said adjusting means together for simultaneously adjusting said guides, and a hand wheel operatively connected to the saw guide for adjusting it on said unit.

2,166,456
CARRIAGE FOR VEHICLES MOVED PRINCIPALLY IN ONE DIRECTION
Louis Eugéne Widolt Montrose-Oster, Carlsbad, Czechoslovakia, assignor of one-half to Pollopas Patents, Ltd., London, England
Application July 7, 1936, Serial No. 89,352
In Germany July 8, 1935
4 Claims. (Cl. 280—124)

1. A vehicle moved principally in one direction, comprising a frame, supporting members, bell crank levers, of which the axles are fixed to the frame or some equivalent part of the vehicle and of which one arm, being connected to said supporting members is inclined in an acute angle to the direction of movement of the vehicle, and



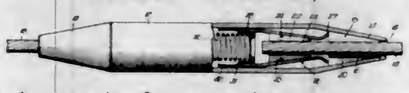
of which the other arm being connected to a conjugate springing, arranged in one plane together with an additional compensating springing, this being arranged in balance form and journalled in its center to the frame or some equivalent part of the vehicle.

2,166,457
RECLAIMING MEMBER AND ENTRANCE GUIDE FOR CONNECTORS
Arthur A. Berndt, Chicago, Ill., assignor to Electroline Company, Chicago, Ill., a corporation of Illinois
Application July 28, 1938, Serial No. 221,704
6 Claims. (Cl. 24—126)



4. A connector of the character described, in combination, a tubular casing having a tapering portion at one end thereof terminating in a retaining nose, gripping means within said tapering portion for receiving and gripping a wire, a sleeve retained by said nose in a manner permitting limited movement thereof in a direction axially of the casing, said sleeve receiving the wire and providing an entrance guide by directing the same toward the gripping means, said sleeve being operative upon rearward movement thereof to release the wire held by the gripping means so that the connector may be reclaimed, and a tapered tip formed on the outer projecting end of said sleeve to facilitate movement of the connector over cross arms and similar obstructions.

2,166,458
CONNECTOR
Arthur A. Berndt and Homer C. Nycum, Chicago, Ill., assignors to Electroline Company, Chicago, Ill., a corporation of Illinois
Application November 11, 1937, Serial No. 174,006
3 Claims. (Cl. 174—94)



2. A connector for connecting wires, comprising a pair of casings each having oppositely directed tapering end portions, means connecting the casings including a gripping member having location within each casing and adapted to contact the tapering end walls of one end thereof, each gripping member having an opening in the same for receiving a wire inserted within its casing, additional gripping means within each casing including segments of wedge-shape for also gripping and holding the end of the wire within its respective casing, said segments having contact with the tapering walls of the other end portion of its casing, and resilient means maintaining each gripping member and the said additional gripping means properly located within the casing.

2,166,459
CASH REGISTER, ACCOUNTING, AND THE LIKE MACHINE
Ernst Breitling, Berlin-Tempelhof, Germany, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application October 5, 1935, Serial No. 43,731
In Germany January 7, 1935
5 Claims. (Cl. 235—138)



1. In a tens transfer mechanism for a totalizer having a plurality of denominational elements, the combination of tens transfer entering means interposed between adjacent denominational elements; means on each totalizer element to preliminarily set its associated tens transfer entering means as the totalizer passes through zero; a gear associated with each tens transfer entering means for actuating the tens transfer entering means after the latter have been preliminarily set to enter one unit in the next higher totalizer element said gears each having as many teeth as there are denominational elements in the totalizer the space between the first and the last teeth being greater than the space between the other teeth; and means to rotate the gears one complete rotation for each operation of the machine to enter all tens transfers during one rotation of the gears.

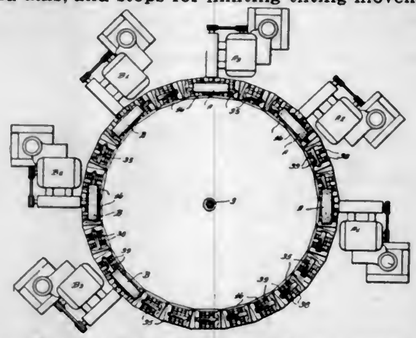
2,166,460
HAIRPIN
Everett C. Burns, Spokane, Wash.
Application November 24, 1937, Serial No. 176,317
6 Claims. (Cl. 132—50)



1. A hair pin comprising jaws having handle forming shanks at their rear ends, a substantially V-shaped spring disposed between the shanks with its arms extending rearwardly and united to rear ends of the shanks, and a tongue cut from one arm of the spring longitudinally thereof and bent to extend laterally therefrom between arms of the spring in bridging relation thereto with its other end anchored at the junction of the other arm of the spring with the adjacent shank.

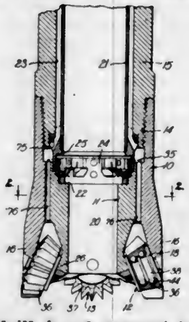
2,166,461
WORK SUPPORTING TABLE
Gustave A. Carlson, Detroit, Mich.
Application June 30, 1938, Serial No. 216,697
13 Claims. (Cl. 51—237)

1. The combination of a plurality of work holding fixtures arranged in a circle about an axis of rotation, means rotating said fixtures about said axis, means tilting said fixtures through an arc contained by a plane substantially radial of said axis, and stops for limiting tilting movement



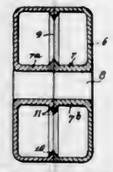
of said supports, said stops having means for clamping work pieces on tilted fixtures.

2,166,462
CORE DRILL HEAD
Alfred C. Catland, Alhambra, Calif., assignor to Globe Oil Tools Company, Los Nietos, Calif., a corporation of California
Application May 2, 1938, Serial No. 205,501
14 Claims. (Cl. 255—72)



1. A core drill head comprising an outer tubular section, an inner tubular section arranged in the outer section and adapted to receive the core, an outer roller cutter rotatably mounted on the inner section to cut the bore to gauge, an inner roller cutter rotatably mounted on the inner section to cut the core to size, and vertically spaced means detachably connecting the sections against relative rotation and axial movement.

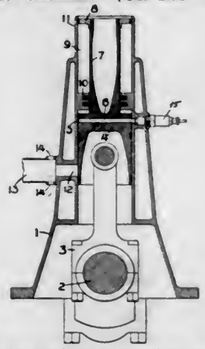
2,166,463
FLOAT FOR FISH NETS
Steve Earl Cressey, San Pedro, Calif.
Application November 24, 1936, Serial No. 112,537
2 Claims. (Cl. 43—50)



1. A float for a net, adapted to be strung onto a line with a plurality of similar floats, said float consisting of a pair of substantially cylindrical shells of rubber, each shell having a substan-

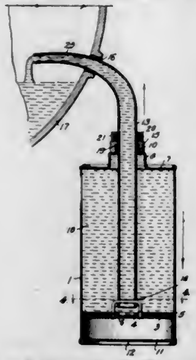
tially flat head with a substantially cylindrical outer wall and a central tubular sleeve, the said cylindrical walls and the ends of the said cylindrical sleeves abutting against each other and being vulcanized together.

2,166,464
INTERNAL COMBUSTION ENGINE
Clarence D. Davis, Chicago, Ill.
Application August 19, 1935, Serial No. 36,783
Renewed November 18, 1938
10 Claims. (Cl. 123—66)



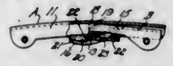
3. In an internal combustion engine the combination of a cylinder, a crankshaft, a main piston in said cylinder operatively connected to said crankshaft for performing compression and power strokes, a secondary piston in said cylinder opposed to said main piston for performing scavenging and suction strokes, means of absorbing, in a fluid compression chamber, energy of the charge between said pistons, means of applying the energy in said compression chamber for operating said secondary piston on a scavenging stroke, means of absorbing, in a second fluid compression chamber, the kinetic energy of said secondary piston on the scavenging stroke, means of applying the energy in the last mentioned compression chamber for operating said secondary piston on an induction stroke, and inlet and exhaust ports in said cylinder controlled by said main piston.

2,166,465
CAN ASSEMBLY
James A. Edwards, Kansas City, Mo.
Application December 4, 1936, Serial No. 114,173
3 Claims. (Cl. 221—47)



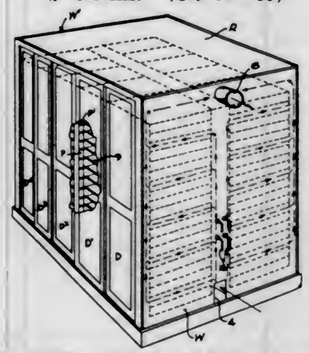
1. A fluid container including in combination a housing adapted to contain a fluid, a discharge opening for said housing, a readily detachable sealing means for said opening, means for attaching said sealing means for sealing said opening, a piston disposed within said housing, a piston rod, said piston being provided with means for attaching said piston rod thereto when said piston rod is inserted through said opening, said piston rod being formed with a duct therethrough for the eduction of fluid from said housing, means for sealing the outside of said piston rod and means for attaching said piston rod sealing means to said housing by said means for attaching said housing sealing means after said housing sealing means has been detached.

2,166,466
BUCKLE
William Gency, New Britain, Conn., assignor to North and Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut
Application November 13, 1937, Serial No. 174,382
4 Claims. (Cl. 24—230)



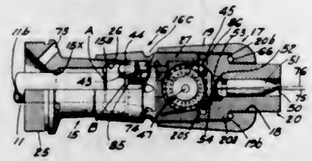
4. A buckle of the character described comprising two separable plates, one of said plates being provided with oppositely disposed guide members spaced rearwardly from and parallel thereto, the other plate being receivable between said guide members and said first plate, said second plate having a body portion, a spring member extending outwardly from the body portion and resiliently connected thereto, said spring member having at its marginal edges rearwardly turned locking lips provided with cammed faces and adapted to be engaged behind the trailing edge of said guide members, positioning shoulders carried by said body portion intermediate of said locking lips and resilient connection, said locking lips being angularly spaced from said shoulders whereby when said cam surfaces are received on the front face of said guide members said shoulders abut the rear face of said first plate where upon further movement of said second plate said locking lips will be biased into substantial alignment with said shoulders to permit said second plate to be moved into interlocking engagement with said first plate.

2,166,467
EGG DEHYDRATOR
Roy A. Goodhue, Spokane, Wash.
Application February 7, 1938, Serial No. 189,182
2 Claims. (Cl. 34—39)



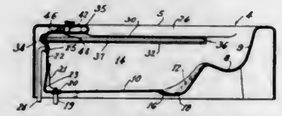
1. The combination in a drying-house having a roof, doors at the opposite sides of the house, and upright up-draft flues adjacent the doors, of a pair of spaced, central ported partitions extending from end to end of the house and forming a main flue having an inlet, a compartment at each side of the flue, a ceiling covering said main flue and compartments, said ceiling and roof forming an outlet chamber to receive currents of air from the up-draft flues, each said compartment having a vertical tier of horizontally slidable trays forming evaporating spaces between the main flue and the respective up-draft flues, and means for controlling communication of air currents through the ported partitions.

2,166,468
BULLET DEFLECTING ATTACHMENT FOR FIREARMS
Clarence B. Greenstreet, Elsinore, Calif.
Application January 24, 1938, Serial No. 186,647
23 Claims. (Cl. 42—1)



1. A firearm having an extension connected with its muzzle portion, said extension having a bore which guides the bullets fired from said firearm during the final portion of their movement within the firearm, and means forming a part of said muzzle portion to impart a series of movements to said extension and thereby vary the directional relation of the bore of said extension to the remaining portion of the bore of said firearm.

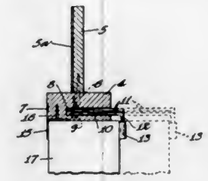
2,166,469
BATHTUB
Julia L. Houston, Los Angeles, Calif.
Application March 11, 1938, Serial No. 195,238
9 Claims. (Cl. 4—181)



1. A bath tub having a U-shaped inner surface considering the front end and the sides thereof, and a U-shaped shower pipe extending around said end and along said sides, the pipe having spray openings directed toward the opposite side of the tub.

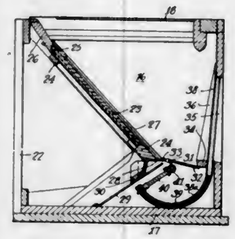
2,166,470
SUPPORT-ENGAGING BASE FOR DISPLAY DEVICES
William G. Huber, Hopkins, Minn.
Application November 24, 1937, Serial No. 176,265
3 Claims. (Cl. 248—346)

1. In a support engaging base for a display device and the like, a body having a substantially flat bottom contact surface, a rigid support engaging element extending downwardly from said body adjacent one side thereof to a point below said flat bottom surface, said body having a recess therein extending inwardly from a side thereof, a pair of spring tensioned arms having portions anchored in said recess and also having portions swingable out of said recess in a substantially horizontal plane above said flat bottom surface, said arms having ends provided with portions extending downwardly below said flat



bottom surface and said arms and their downwardly extending portions being swingable under tension away from said rigid element.

2,166,471
REFLEX CAMERA
Alpheus D. Johnson, Wichita, Kans., assignor of one-half to Martin J. Welsh, Kansas City, Mo.
Application April 12, 1937, Serial No. 136,409
4 Claims. (Cl. 95—57)

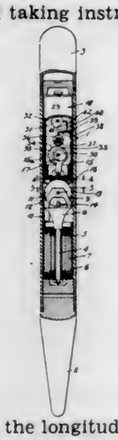


1. In a reflex camera, said camera having an opening shutter that is swingably mounted in said camera and rigidly mounted on a revolvable shaft, and a closing curtain in said camera that is operable from a second revolvable shaft, a mechanism for revolving the first said shaft so as to open the camera at the beginning of a predetermined interval of time, and for revolving the second said shaft at the end of the said predetermined interval of time so as to close the camera, and adjustment means in said mechanism for governing the length of time between movements of said shafts for the opening and closing movement of said shutter and curtain.

2,166,472
DRIFT RECORDER
Francis W. Lake and John H. Wallace, Jr., Whittier, Calif., assignors, by mesne assignments, to Technical Oil Tool Corporation, Ltd., Los Angeles, Calif., a corporation of California
Application December 21, 1929, Serial No. 415,822
1 Claim. (Cl. 33—205.5)

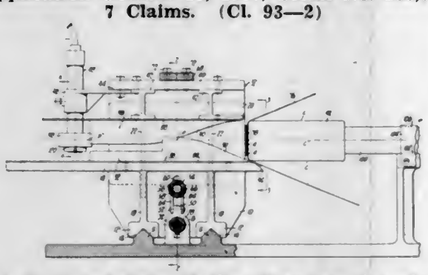
In a cushioning and positioning device for a record taking instrument, a coil spring adapted to be placed in a drill pipe string, a ring placed on said coil spring, centering springs for said ring, and a plurality of guide springs adapted to re-

ceive the record taking instrument and to main-



tain the same in the longitudinal axis of said drill pipe string.

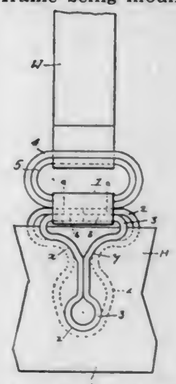
2,166,473
WRAPPING MACHINE
Ko Wah Lum and Alexander B. Vinogradoff, San Francisco, Calif.
Application October 13, 1937, Serial No. 168,742
7 Claims. (Cl. 93—2)



1. In a machine of the character described, folding means for folding a flat wrapper of sheet material against one end and two opposite sides of a package during movement of such package in one general direction along a path of travel, means for supporting such package during said movement, said folding means comprising a pair of spring arms extending across said path from points at opposite sides thereof whereby the arms will engage one side of a wrapper interposed between the arms and the leading end of said package to force the wrapper against said leading end upon said movement of the package, means securing one of the ends of said arms at said points and the opposite ends of the arms being free and said arms respectively being yieldable between said points and said free ends for movement of the free ends apart to positions at opposite sides of said package upon continual movement of the package along said path whereby the wrapper projecting outwardly of said leading end will be forced by said arms against opposite sides of the package as said leading end moves along said path to past the free ends of the arms.

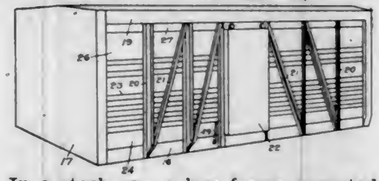
2,166,474
HOSE SUPPORTER GRIP AND ATTACHING MEANS THEREFOR
Fred E. Mefford, Colorado Springs, Colo.
Application September 24, 1936, Serial No. 102,341
Renewed December 13, 1938
2 Claims. (Cl. 24—248)

1. In a grip the combination of a pair of frames having lateral projections and normally disposed in substantially the same plane; a connector element embracing and engaging said lateral projections, each frame being mounted for angular



motion with reference to its companion frame and the connector element; and a pair of loops disposed one within the other and secured to said connector element, said loops being adapted to receive a web.

2,166,475
STOCK CAR
Donald Scott Munro and David Bruce Munro, Westmount, Quebec, Canada
Application May 20, 1936, Serial No. 80,804
2 Claims. (Cl. 119—8)



1. In a stock car, a box frame mounted on a suitable running gear and having slotted sides and entrances and exits, a bull bar at approximately midway of the height of the car and forming a base for a platform, an upper slotted frame mounted in ways and adapted to cover the slots of the side above and immediately below the said bull bar, and a lower slotted frame set in the way below said upper frame and adapted to be connected thereto, and operating means connected to the upper frame and adapted to slide the same independent of the lower frame.

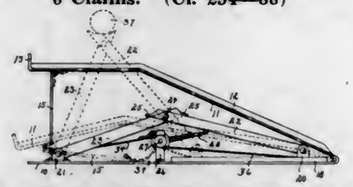
2,166,476
MATERIAL FOR CLEANING AND PREPARING METAL FOR PAINT
Howard R. Neilson, Detroit, Mich.
No Drawing. Application November 9, 1935, Serial No. 49,035
8 Claims. (Cl. 148—8)

1. A metal cleaning composition including a rust removing acid, an oil dissolving agent and a sodium salt of the acid sulphates of multiple carbon, saturated, branched chain, secondary alcohols, having the general formula

$$H-\underset{R'}{\overset{R}{C}}OSO_3Na$$

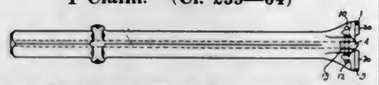
in which R and R' represent aliphatic hydrocarbon radicals containing a total number of carbon atoms ranging from 6 to 17.

2,166,477
COMBINATION WHEEL RAMP AND WHEEL JACK
Harry H. Polk and William J. Marks, Des Moines, Iowa
Application March 6, 1939, Serial No. 259,960
6 Claims. (Cl. 254—88)



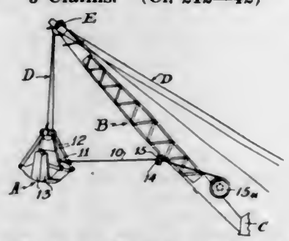
1. In a device of the class described, a base member, a collapsible ramp on said base member, an elevatable jack support mechanism on said base member, and connected actuatable elements operatively connected to said jack support mechanism and said collapsible ramp for lowering or raising said jack support mechanism, and the collapsing of said ramp.

2,166,478
DRILL BIT
Royal N. Riblet, Spokane, Wash., assignor of one-half to Hugh Hurlow, Jr., Tacoma, Wash.
Application May 22, 1937, Serial No. 144,269
1 Claim. (Cl. 255—64)



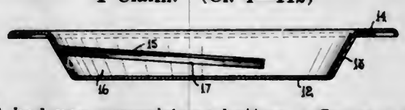
The combination with a tubular drill rod having an integral open center head comprising two sets of transversely extending radially-grooved wings having transverse holes therein, of a series of cutters fitted in said wings and having holes registering with the wing-holes, readily removable soft-metal rivets secured in the complementary wing-holes and cutter holes, each said cutter having a transversely extending beveled inner end with its edge overlapping an adjoining groove and forming a gage-abutment for another cutter, one of said cutters having a full-length cutting edge, and the remaining cutters having cutting edges of decreasing length.

2,166,479
TAG-LINE DEVICE
William Ruddock, South Pasadena, Calif., assignor of one-half to Marion P. McCaffrey, Los Angeles, Calif.
Application April 23, 1938, Serial No. 203,839
3 Claims. (Cl. 212—42)



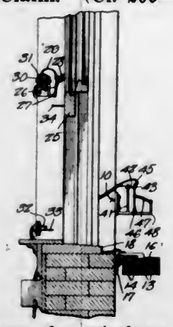
1. In a crane mechanism having a material handling bucket or the like suspended from a boom; in combination, a tagline attached to said bucket, a pulley around which said tagline passes, a housing having a bearing for rotatably mounting said pulley, a coil spring having one end fixed to rotate with said pulley and its other end fixed to said housing, whereby said spring is adapted to maintain a steady pull on said tagline regardless of vertical movement of said boom.

2,166,480
BEDPAN
Francis D. Schermerhorn, Omaha, Nebr., assignor of one-half to Anna M. Schermerhorn, Omaha, Nebr.
Application February 1, 1939, Serial No. 254,042
1 Claim. (Cl. 4—112)



A bed-pan comprising a bottom, a flange, a side wall between said flange and bottom, said flange being perimetrically disposed with respect to said wall and extending beyond the latter a distance substantially equal to the height of said side wall, said height being approximately one fifth of the diameter of said bottom for providing a comparatively shallow construction whereby it may be inserted inclinedly between the upper surface of a bed and the torso of a user while the latter is disposed on said surface, and a partition of approximately crescent shape in plan extending between oppositely disposed portions of said wall, the convexed edge of said partition being sealed to said wall for providing a chamber between said bottom and partition having an open mouth adjacent the concaved edge of said partition, that portion of said flange which is furthest away from said mouth being adapted to be pressed toward said surface of the bed for permitting said pan to be held in an approximately horizontal position of use, said partition being disposed inclinedly toward said mouth for causing urine discharged thereon to flow downwardly of the partition during use, said chamber being adapted to trap said urine therein at times when the bedpan is inclined during a removal thereof from under the body of said user.

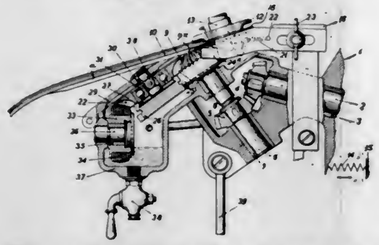
2,166,481
WINDOW CONTROL DEVICE
Raymond A. Baird, Elizabeth, Ind.
Application September 4, 1936, Serial No. 99,499
1 Claim. (Cl. 200—52)



A circuit closer for windows electrically operated to be moved to closed position in the event of rain, the same comprising a grid composed of intercurrent fingers and spaced bars arranged at angles to the fingers, alternate fingers being connected to the same bar and successive

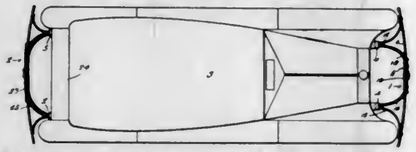
fingers to opposite bars, the fingers being in parallel relation and bent intermediately to give the grid a V-shaped form in elevation and being spaced only enough to normally insulate the two sets and admit them to be bridged by drops of water in the presence of rain.

2,166,482
DEVICE FOR WORKING ON THE SOLES OF FOOTWEAR
Jan Antonin Bata, Zlin, Czechoslovakia
Application March 31, 1936, Serial No. 71,956
In Czechoslovakia March 20, 1935
7 Claims. (Cl. 12—17)



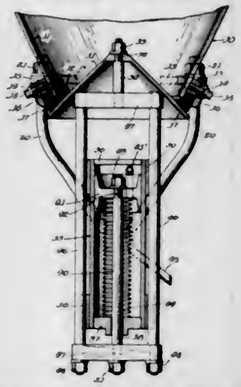
1. The combination with a spreading device for spreading the channel formed in a shoe sole, of a feeding device located adjacent said spreading device, and a plurality of guiding elements, one at each side of said feeding device and engageable with the periphery of the sole to cooperate with said feeding device and automatically guide the sole past the feeding device, one of said guiding devices comprising an adjustably mounted rigid member and the other guiding device including a yieldingly pressed roller tending to turn the sole on the feeding device as a pivot and thereby maintaining the edge of the sole in contact with said rigid guiding device.

2,166,483
AUTOMOBILE BUMPER
Hampton R. Bates, Roanoke, Va.
Application June 20, 1938, Serial No. 214,825
1 Claim. (Cl. 293—55)



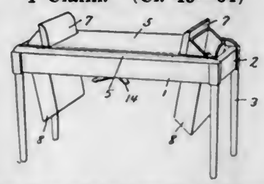
A bumper for attachment to the chassis of an automobile comprising a front single piece bumper bar, a pair of side arms for supporting opposite ends of the bumper bar comprising straight rear ends for attachment to said chassis and outwardly curving front ends secured to the ends of the bumper bar, an upwardly arched guard of horse-shoe form in the transverse center of the bumper bar extending therefrom well above the same and having free ends attached to said bar inwardly of the ends of the latter, a vertically disposed guard reinforcing brace extending between the bumper bar and the top of said guard and attached to the same, a reinforcing bar in the rear of said bumper bar having a central upwardly arched portion fitting flat against the rear side of said guard and attached thereto, said reinforcing bar curving downwardly and rearwardly from said guard and terminating in straight ends opposed flat against the ends of said arms parallel therewith for attachment to said chassis, and a second reinforcing bar extending along the rear side of the bumper bar parallel therewith, said second bar curving rearwardly from the bumper bar and terminating in straight ends opposed flat against the ends of the first-mentioned reinforcing bar for attachment to said chassis.

2,166,484
HOPPER CLOSURE MECHANISM
Adolph G. Carlson, Chicago, Ill.
Application September 13, 1937, Serial No. 163,689
2 Claims. (Cl. 221—145)



1. In a hopper, in combination, a member for closing the open bottom of said hopper, actuating means for said member to produce opening and closing movement thereof, comprising a cylinder located below the hopper, depending arms supporting said cylinder from the hopper, a piston within said cylinder having connection with the bottom closing member whereby movement of the piston is imparted to said member, resilient means within said cylinder forcing said piston in a direction upwardly to retain the bottom member in its hopper closing position, and an air supply for said cylinder forcing said piston in a direction downwardly to cause opening of the hopper.

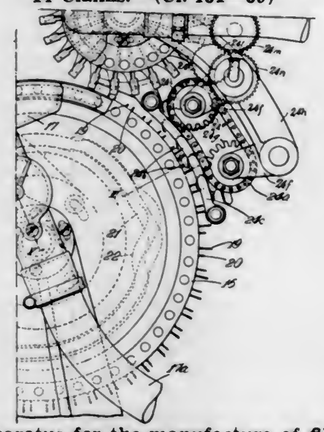
2,166,485
PIANO BENCH
Monroe Lee Crawford, San Angelo, Tex., assignor to Ultra Modern Piano Bench Company, Tom Green County, Tex., a corporation
Application November 3, 1937, Serial No. 172,619
1 Claim. (Cl. 45—64)



A combination piano bench and music cabinet comprising a rectangular bench frame open at its bottom, a seat panel on top of said frame and terminating short of one end of the latter to provide an opening in the top of the frame, a flap for closing said opening, hinged to said frame adjacent to the terminal end of said panel to swing about a transverse axis upwardly and downwardly into opening and closing positions,

respectively, said flap in the closing position thereof forming an extension of said panel, and a rectangular music container longer than said flap and having a closed end and an open end, said container being secured adjacent the open end thereof to the under face of the flap, whereby in the open position of the flap said open end of the container is projected upwardly through said opening for access thereto, said container in the closed position of the flap being swung thereby into said frame into a hidden position.

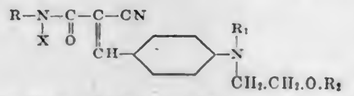
2,166,486
CIGARETTE APPARATUS
William Frederick Maitland Edwards, Hinchley Wood, Esher, England, assignor to Filter Tips Limited, London, England
Application June 28, 1937, Serial No. 150,850
In Great Britain July 9, 1936
14 Claims. (Cl. 131—39)



1. Apparatus for the manufacture of filter tip cigarettes by wrapping a uniting band about an assemblage of cigarette and stub portions, comprising conveying means on which the wrapping of the uniting band about the assemblage is effected, members mounted on said conveying means to engage opposite sides of each assemblage, said members being reciprocatable in planes intersecting the path of movement of the conveying means whereby the assemblage may be rolled between the said members about its own axis, and means for effecting the reciprocatable movement of the said members.

2,166,487
CONDENSATION PRODUCTS FROM CYANO-ACETIC ACID ARYLIDES
Friedrich Felix and Rudolf Ruegg, Basel, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application January 5, 1938, Serial No. 183,536. In Switzerland January 9, 1937
5 Claims. (Cl. 260—465)

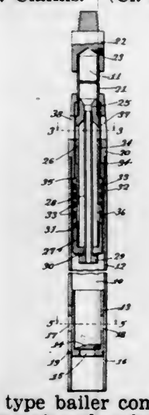
1. Condensation products of the general formula



in which R stands for an aryl radical of the benzene series, X stands for a radical of the group

consisting of hydrogen and alkyl, and R_1 and R_2 stand for alkyl groups containing not more than three carbon atoms, which products are yellow powders dissolving in organic solvents such as ethyl acetate and acetone, to yellow solutions and dyeing esters and ethers of cellulose similar tints.

2,166,488
PUMP TYPE BAILER
Paul G. Gates, Long Beach, Calif.
Application September 1, 1936, Serial No. 98,889
17 Claims. (Cl. 166—19)



1. A pump type bailer comprising means providing an entrapping chamber having an entrapping means in its inlet, means reciprocable relative to the entrapping chamber adapted upon reciprocation to draw liquid into the entrapping chamber and cause it to be expelled therefrom to thereby induce inflow into the chamber past the entrapping means, there being provision made for retaining in the entrapping chamber at least a substantial portion of the pressure existing at the depth to which the bailer may be lowered to be subsequently utilized to facilitate unloading the entrapping chamber.

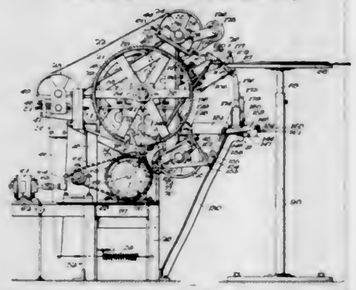
2,166,489
PUMP TYPE BAILER
Paul G. Gates, Long Beach, Calif.
Application June 1, 1937, Serial No. 145,799
14 Claims. (Cl. 166—19)



1. A pump type bailer comprising means providing an entrapping chamber having an en-

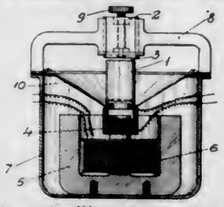
trapping valve at its bottom, means providing a plunger reciprocable in the top of the entrapping chamber, a tube extending into the top of the entrapping chamber on which the plunger is mounted, and means by which the tube may be suspended, mounted for limited telescoping movement upon the tube.

2,166,490
METHOD AND APPARATUS FOR MOLDING AND SECURING RUBBER OBJECTS TO FABRIC
Henry Gora, Bridgeport, Conn., assignor to Jenkins Bros., New York, N. Y., a corporation of New Jersey
Application October 17, 1935, Serial No. 45,476
21 Claims. (Cl. 18—2)



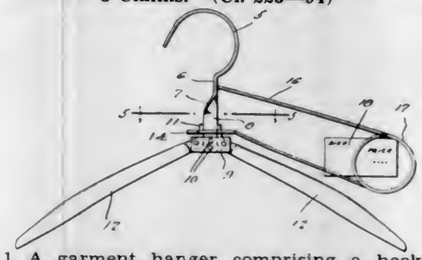
1. In a machine for molding objects of rubber and securing the same to fabric, the combination of a member having a pluralty of spaced molds formed therein, means for loading charges of uncured rubber into said molds, means for bringing a continuous strip of fabric into contact with said member and the exposed surfaces of the rubber in said molds, means for applying pressure against said fabric to force it into contact with the exposed surfaces of said rubber and to maintain a molding pressure on the latter, means for heating the rubber in said molds during the application of said pressure and for a sufficient length of time to effect curing and attachment of the rubber to the fabric by vulcanization, and means for removing the fabric strip and adhering molded rubber objects from said member.

2,166,491
LIGHT CONTROL DEVICE
Karl Gromus, Vienna, Austria
Application August 19, 1937, Serial No. 159,982
In Austria August 26, 1936
2 Claims. (Cl. 179—100.3)



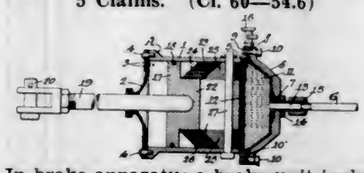
1. A light controlling device for the production of sound films comprising a magnet, an oscillating coil disposed in front of the said magnet and being influenced by the microphone currents transmitting the souhd to be recorded, a light controlling device connected with the said oscillating coil and a loud-speaker membrane connected with the said oscillating coil, said membrane being so arranged and constructed as to make the oscillations of the said coil directly audible to the operator for enabling him to check the function of the sound recording apparatus, and an additional slidable adjusting member arranged in juxtaposition to the light controlling device.

2,166,492
HANGER
Marcus C. Harvey, Stroud, Okla.
Application November 8, 1938, Serial No. 239,581
3 Claims. (Cl. 223—94)



1. A garment hanger comprising a hook, a pair of arms pivotally secured to the shank portion of the hook, each of the arms being provided with a laterally disposed head portion for abutting the hook shank and a collar slidable on the hook for engaging the laterally disposed portions and a spring for maintaining the collar engaged with the lateral portions of the arms.

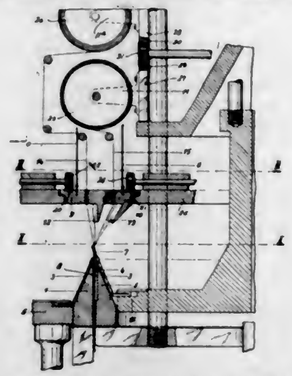
2,166,493
BRAKE UNIT
James Lewis Hill, Kansas City, Mo.
Application October 26, 1937, Serial No. 171,145
5 Claims. (Cl. 60—54.6)



1. In brake apparatus a brake unit including a cylinder, a fluid actuated flexible element closing one end of the cylinder, a piston in the cylinder having a reduced extension bearing against one surface of said element, concentric relatively slidable sleeves on said extension and having longitudinal slots of different lengths respectively, means extending through and slidably engaged by the piston extension and the slotted sleeve for limiting the sliding movement of the sleeve in one direction relative to the piston, said sleeve being positioned with each slot longer than the slot in the next sleeve therearound, and means carried by the piston when moved in one direction, for successively shifting the sleeves while in contact with the flexible element, thereby to maintain a bearing surface for said element throughout the area thereof when flexed.

2,166,494
CIRCULAR WARP LOOM
Eugen Hiller, Berlin, Germany
Application May 10, 1937, Serial No. 141,822
In Germany May 13, 1936
4 Claims. (Cl. 66—81)

1. In a circular warp knitting machine having two groups of warp threads, means for moving the threads in counter directions around the axis of the machine, a needle bed having needle grooves disposed at an acute angle to the vertical, two guide rings for the groups respectively adapted to move in counter directions about the axis of the machine, means for moving the guide



rings, and means for moving the needles up and down in their grooves whereby the crossing point of each warp thread of one group with the corresponding thread of the other group will be disposed directly upon the shank of its related needle when in upper raised position.

2,166,495
ALUMINUM ALLOYS
Isamu Igarashi and Goro Kitahara, Fuse, Japan, assignors to Sumitomo Kinzoku-Kogyo Kabushiki Kaisha, Osaka, Japan
No Drawing. Application June 20, 1938, Serial No. 214,809. In Japan December 15, 1936
1 Claim. (Cl. 75—141)

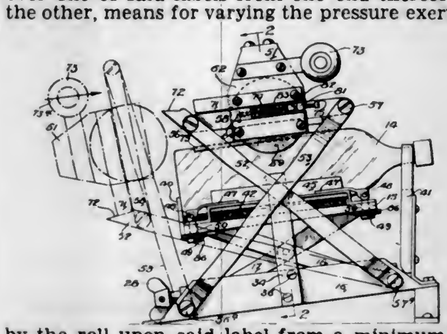
Aluminum alloys consisting of 4–20% of zinc, 1–3% of copper, 1–2% of magnesium, 0.1–1.5% of manganese, 0.05–1.0% of chromium, 0.01–2% of molybdenum, 0.01–0.2% of calcium and the rest of aluminum, characterized by ready forgeability and by resistance to season cracking.

2,166,496
ALUMINUM ALLOYS
Isamu Igarashi and Goro Kitahara, Fuse, Japan, assignors to Sumitomo Kinzoku-Kogyo Kabushiki Kaisha, Osaka, Japan
No Drawing. Original application June 20, 1938, Serial No. 214,809. Divided and this application April 6, 1939, Serial No. 266,419. In Japan December 15, 1936
1 Claim. (Cl. 75—142)

Aluminum alloys characterized by ready forgeability and resistance to season cracking and consisting of 4–20% of zinc, 1–3% of copper, 1–2% of magnesium, 0.1–1.5% of manganese, 0.05–1% of chromium, 0.01–0.2% of calcium, and the rest of aluminum.

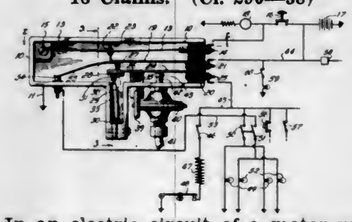
2,166,497
LABELING MACHINE
Elmer L. Knoedler and Alfred L. Preston, Moorestown, N. J., assignors to Continental Distilling Corporation, Philadelphia, Pa., a corporation of Delaware
Application May 15, 1937, Serial No. 142,818
7 Claims. (Cl. 216—12)

5. A labeling machine having means for guiding into operative position an article on opposite sides of which labels have been preliminarily applied, a roll adapted to press against and roll over one of said labels from one end thereof to the other, means for varying the pressure exerted



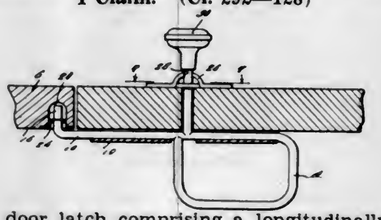
by the roll upon said label from a minimum at one end of the label to a maximum at the other end thereof, and resilient means for simultaneously affixing the remaining preliminarily applied label to the opposite side of said article.

2,166,498
SWITCHING MEANS
Ernest George Lacey, East Kew, Victoria, Australia
Application November 10, 1937, Serial No. 173,902
In Australia April 7, 1937
18 Claims. (Cl. 290—38)



1. In an electric circuit of a motor vehicle, a source of electric energy, a device in circuit with said source of energy, auxiliary switching means operable to temporarily close a break in said circuit, manually operable means for effecting the actuation of said auxiliary switching means, time delay means operable to cause said break to remain closed for a minimum period consequent upon the actuation of said manually operable means and automatic switching means responsive to the running of the engine to maintain said break closed during normal operation thereof.

2,166,499
LATCH
William Lange, Rice Lake, Wis.
Application March 30, 1938, Serial No. 199,016
1 Claim. (Cl. 292—128)



A door latch comprising a longitudinally arranged rod journaled on one face of a door and

having one end portion constructed to engage a keeper and said rod being partially bent on itself to form a substantially rectangular shaped handle, a shank formed on said rod and extending at right angles thereto and through a slot in the door and including a door handle, a slidable plate having an opening to receive the shank, a base plate secured on the door and having a pocket to slidably receive the slidable plate and provided with a notch, and a coil spring connecting the slidable plate and the base plate and lying within the pocket to urge the slidable plate in a direction to position the shank in the notch for limiting the rotation of the rod in one direction, said rod being restricted in its rotation in an opposite direction by said spring.

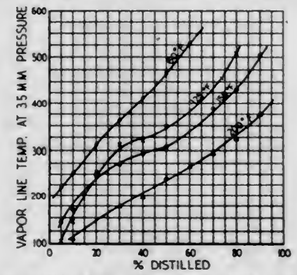
2,166,500

PARASITICIDAL SPRAY OIL COMPOSITION

Arthur L. Lyman, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application December 19, 1936, Serial No. 116,827

10 Claims. (Cl. 167—28)



1. A parasiticidal oil consisting substantially entirely of liquid aliphatic mono-olefine hydrocarbons, the said olefine hydrocarbons boiling in major part above about 235° F. and below about 600° F. at 3.5 millimeters mercury pressure.

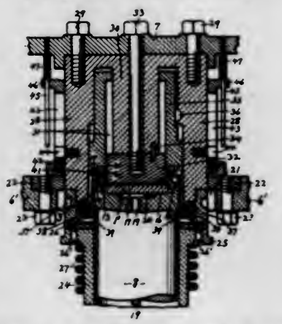
2,166,501

METHOD OF MAKING OVER-ALL BOTTLE CAPS

Charles A. MacCordy, Syracuse, N. Y., assignor to Sanitary Metal Cap Corporation, Syracuse, N. Y.

Original application July 27, 1933, Serial No. 682,474. Divided and this application March 15, 1937, Serial No. 131,096

4 Claims. (Cl. 113—121)



1. The herein described method of making bottle caps from sheet material consisting in cutting a disc from the sheet, bending the marginal portions of the disc axially in one direction to form a cap skirt, depressing the central portion of the disc into cup-shaped form, and corrugating the rim of the cap simultaneously with the depression of the central portion.

2,166,502

METHOD OF REFINING OILS

Oswald H. Milmore, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application November 6, 1937, Serial No. 173,197

10 Claims. (Cl. 196—34)

1. The process for refining a viscous hydrocarbon mixture comprising the steps of contacting said mixture with a strong sludge-forming acid and separating the resulting sludge from the acid mixture in the presence of at least 0.20 gram moles for each 100 grams of the mixture of a low molecular weight hydrocarbon treating agent dissolved in the mixture under superatmospheric pressure at a temperature above the critical temperature of the treating agent, said quantity being sufficient to improve the separation of the sludge.

2,166,503

METHOD OF REFINING OILS

Oswald H. Milmore, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application November 6, 1937, Serial No. 173,198

10 Claims. (Cl. 196—34)

1. The process for refining a viscous hydrocarbon mixture comprising the steps of contacting said mixture with a strong sludge-forming acid and separating the resulting sludge from the acid mixture in the presence of at least 0.20 gram moles per 100 grams of the mixture of a low molecular weight non-hydrocarbon treating agent which is not chemically reactive with the acid and which is in its para-critical state at 100° C. dissolved in the mixture under superatmospheric pressure at a para-critical temperature for the treating agent.

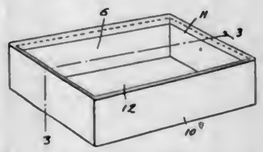
2,166,504

ORNAMENTAL BOX

Keaton G. Nichols, Butte, Mont., assignor of one-half to William Kenneth Line, Butte, Mont.

Application April 21, 1938, Serial No. 203,456

2 Claims. (Cl. 229—8)



1. A box of the class described formed of a plurality of walls, said box having an open portion, an inner flexible covering secured to the outer surfaces of the box, an outer flexible cover for the exposed surfaces of the inner cover and free therefrom and means for securing the marginal edges of said outer cover to the inner surfaces of the box, said secured edges of the outer cover being separable from the remaining portion of the cover.

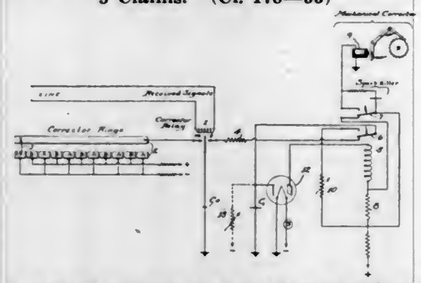
2,166,505

INTEGRATING PHASE CORRECTION MECHANISM

Paul A. Noxon, Bergenfield, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York

Application November 30, 1936, Serial No. 113,490

5 Claims. (Cl. 178—53)



1. A synchronizing system for telegraph apparatus comprising a distributor, a brush rotating with respect thereto, means for rotating said brush, mechanical means for changing the angular displacement of said brush with respect to said distributor, a line relay responsive to signaling impulses transmitted over the line, means under the control of said relay for producing incremental correcting impulses corresponding to the incoming impulses and of a polarity dependent upon the phase relation of said brush with respect to the respective received impulses, storing means for receiving said produced impulses, a thermionic device having its input controlled by the average charge on said storing means, electromagnetic means in the output circuit of said thermionic device to control the operation of said brush displacement means, and a normally shunted resistance in said output circuit, said electromagnetic means operating to remove the shunt from said resistance and connect the input side of said storing means to a high resistance charging circuit.

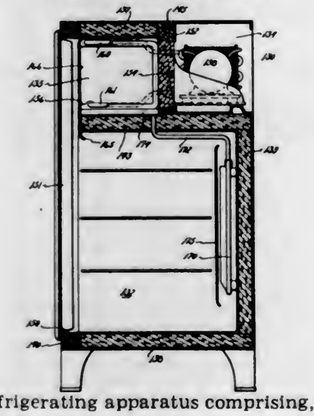
2,166,506

REFRIGERATING APPARATUS

Lawrence A. Philipp, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland

Original application March 16, 1933, Serial No. 661,033. Divided and this application July 10, 1937, Serial No. 153,012

7 Claims. (Cl. 62—116)



3. Refrigerating apparatus comprising, in combination, a cabinet having its interior divided into two compartments, a primary refrigerating system including a refrigerant condensing element and a refrigerant evaporator located in one of said compartments, and a secondary refrigerating system including a refrigerant evaporator located in the other compartment, and a condenser located in the compartment with the primary evaporator and in thermal contact therewith, said secondary system being permanently fixed in said cabinet, and said primary system being bodily removable as a unit from the cabinet without disturbing the secondary system.

2,166,507

HIGH-MOLECULAR SULPHUR-CONTAINING PLASTICS

Rudolf Schröter, Leverkusen-I. G. Werk, and Wilhelm Becker, Cologne-Mulheim, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application November 29, 1935, Serial No. 52,276. In Germany December 13, 1934

13 Claims. (Cl. 260—79)

2. The products which are substantially identical with those obtained by causing water soluble polysulphides to react upon diethers selected from the group consisting of acetals, mercaptals and mercaptols which contain at least 2 halogen atoms, these products being high-molecular sulphur-containing compounds.

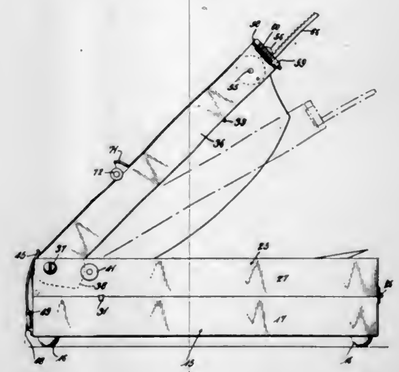
2,166,508

HOLDING AND FEEDING DEVICE FOR "STENOTYPE" NOTES

Byron Clifford Shipley, Lawrence, Kans., and Julia Dee Rice, Kansas City, Mo.

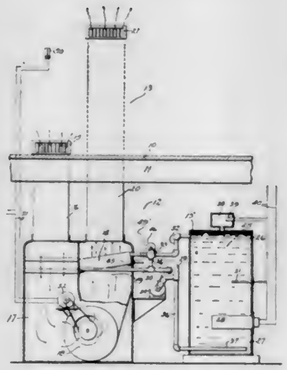
Application January 6, 1938, Serial No. 183,718

5 Claims. (Cl. 120—32)



4. In a device of the type described, a pair of superimposed trays to receive fan-fold paper, the lower tray having an opening through which the paper is withdrawn, an easel mounted on the upper tray to receive the paper withdrawn through said opening, guiding and tensioning means for the paper as it leaves the lower tray and moves to the easel carried in part by each of the two trays and the easel, and feeding mechanism located at the discharge end of the easel for moving the paper over said easel and delivering it to the upper tray in a manner to permit it to assume its folded condition therein.

2,166,509
HEATING SYSTEM
Robert H. Smith, Milwaukee, Wis.
Application September 18, 1936, Serial No. 101,400
1 Claim. (Cl. 237—1)

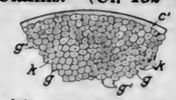


A storage chamber for a heating system, vegetable oil in said storage chamber, a heater in said chamber whereby to heat the oil to a high temperature, and a circulatory system for the high temperature oil whereby to pass oil to and from said chamber, said circulatory system including a conduit extending into the chamber and beneath the heater, said conduit being provided with jets for directing currents of oil for rapid circulation about said heater to prevent charring of vegetable material thereon.

2,166,510
METHOD FOR COATING METAL WITH ALUMINUM OR THE LIKE
Marshall G. Whitfield and Victor Sheshunoff, Knoxville, Tenn., assignors to Reynolds Metals Company, New York, N. Y., a corporation of Delaware
No Drawing. Application June 17, 1936, Serial No. 85,798
4 Claims. (Cl. 91—70.3)

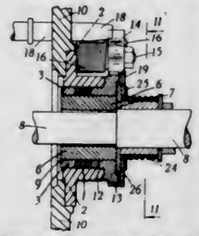
1. The method of making a ductile and malleable laminated metal having a ferrous base and a coating of aluminum or the like which includes the steps of subjecting the uncoated ferrous base metal to a temperature on the order of 1300°–1350° F. in the presence of a reducing gas, then forming on said base metal a coating of aluminum or the like which is connected to said base metal by a substantially uniform bond composed of an alloy of said base and coating metals but which alloy bond is kept relatively thin by first reducing the temperature of the base metal, before subjecting the same to the bath of molten coating metal, to a temperature in the range between the melting temperature of the coating metal and a temperature on the order of 1000° F., then passing the base metal at its reduced temperature into direct contact with the molten coating metal maintained at a temperature above but relatively close to the melting temperature of said coating metal, and then quickly discontinuing the interpenetration of the base and coating metals and the growth of the alloy layer by applying a quenching medium to the coated metal to rapidly chill the same.

2,166,511
PNEUMATIC TIRE
Emil Witzenmann, Pforzheim, Baden, Germany
Application November 26, 1938, Serial No. 242,613
In Germany January 27, 1938
4 Claims. (Cl. 152—157)



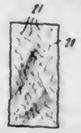
1. An inflatable tire tube comprising an annular body of spongy rubber presenting intercommunicating cells open to its interior and an integrally formed impervious outer skin, said cells being permeated with compressed air on inflation of said tube, and said body in the event of its outer impervious skin being punctured forming an auxiliary cushion allowing the imprisoned air to escape only slowly.

2,166,512
SPRAG DEVICE FOR VEHICLES
Arthur Jack Warwick, London, England, assignor to Stancliffe Free-Wheeling Limited, London, England
Application July 7, 1937, Serial No. 152,323
In Great Britain July 15, 1936
4 Claims. (Cl. 188—30)



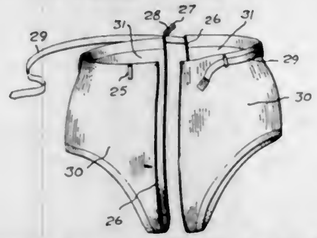
3. A sprag device for vehicles comprising a coil spring clutch operable to prevent backward movement of the vehicle, energizing means for said coil spring cluth including a detent, and a ratchet, a control member mounted concentrically with relation to said ratchet, and arranged to be frictionally controlled by backward or forward movement of the vehicle to oscillate between two extreme angular positions, said control member having a recess therein such that said detent is permitted to engage said ratchet when said control member is in positions intermediate its two extreme positions but is prevented from such engagement when said control member is in either of its extreme positions.

2,166,513
PACKAGE AND MATERIAL FOR FORMING THE SAME
Harry F. Waters, New York, N. Y.
Application May 8, 1935, Serial No. 20,373
3 Claims. (Cl. 91—68)



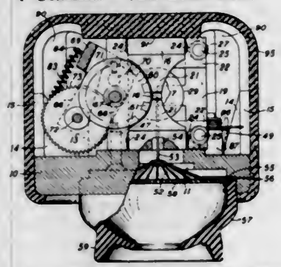
1. A material of the class described comprising a sheet of substantially transparent flexible material having uniformly dispersed throughout the body thereof a plurality of threadlike particles, and a coating of rubber hydrochloride on at least one face of said sheet.

2,166,514
BATHING TRUNKS
William Zapis, Brooklyn, N. Y.
Application July 29, 1938, Serial No. 221,882
2 Claims. (Cl. 2—67)



1. Bathing trunks of the character described comprising two leg encircling ring shaped portions, fastening means for connecting said portions together along the central back, crotch, and front lines of the trunks, an actuating member for said fastening means, a slot in said member, and a waist encircling belt connected to the upper edge of the trunks and passed through said slot.

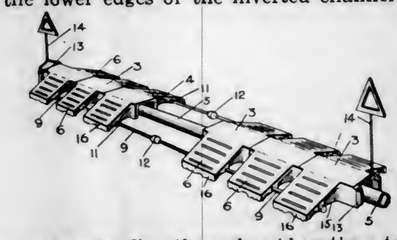
2,166,515
SOUND TRANSLATING APPARATUS
George E. Atkins, Glen Ridge, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 18, 1937, Serial No. 126,422
7 Claims. (Cl. 171—209)



1. A signaling device comprising means including a magnet and pole-pieces therefor forming a magnetic circuit, said pole-pieces having substantially parallel faces, concentric arcuate sides and juxtaposed tips, a coil magnetically coupled to said circuit, an armature extending substantially normal to said faces and cooperatively associated with said tips, and means for varying the reluctance of said circuit to induce a current in said coil comprising a rotor concentric with said arcuate sides and having spaced magnetic portions, said rotor being substantially parallel to said faces and having its axis substantially parallel to the longitudinal axis of said armature.

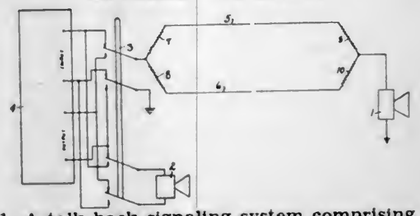
2,166,516
RAMP FOR THE PROTECTION OF HOSE PIPES
George Allen Bainbridge, Cardiff, Wales
Application November 26, 1937, Serial No. 176,598
In Great Britain December 1, 1936
2 Claims. (Cl. 104—275)

1. A ramp for the protection of hose pipes consisting of a plurality of sections which are adapted to abut one another, each section comprising an integral unit having in combination an inverted channel portion through which the hose pipe passes, inclined surfaces extending from the upper edges of the inverted channel portion on each side to a level substantially equal to the lower edges of the inverted channel por-



tion, rods extending through said sections to lock same together, stops positioned on said rods, locking means on said rods and a flexible joint in said rods to permit of the sections following the road camber.

2,166,517
SIGNAL TRANSMITTING SYSTEM
Semi J. Begun, New York, N. Y., assignor, by mesne assignments, to Carll Tucker, New York, N. Y.
Application March 26, 1937, Serial No. 133,144
34 Claims. (Cl. 179—1)



1. A talk-back signaling system comprising an amplifier, a pair of combined transmitter-receivers, a transmission line comprising a pair of conductors, impedances connecting the conductors together at their respective ends, means connecting one of said transmitter-receivers to the impedance at one end of the line, and switching means for connecting the impedance at the outer end of the line to the output or input of the amplifier and the other transmitter-receiver to the input or the output of the amplifier.

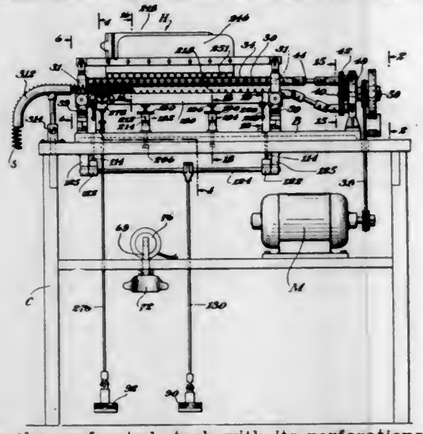
2,166,518
COMPOSITIONS OF MATTER
Solomon Caplan, New York, N. Y., assignor, by mesne assignments, to Harvel Research Corporation, a corporation of New Jersey
No Drawing. Application January 22, 1936, Serial No. 60,343
2 Claims. (Cl. 260—36)

2. A composition of matter comprising material selected from the group consisting of synthetic resins and cellulose derivatives and a plasticiser therefor comprising an α-glycerol ether of a tertiary butyl phenol.

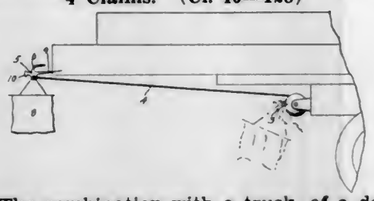
2,166,519
SPIRAL BINDING MACHINE
Vincenzo Catini, New York, N. Y., assignor to Spiral Binding Company, Inc., New York, N. Y., a corporation of New York
Application June 6, 1936, Serial No. 83,866
10 Claims. (Cl. 11—1)

1. In a machine for threading a spiral binding element through the perforations of a stack of sheets having perforations therein adapted

to receive said spiral element, a set of three power driven rollers, having their axes parallel to each other, and adapted to be spaced so as to engage the sides of the spiral element, one of said rollers being positioned below the other two rollers and being vertically adjustable in relation thereto and the other two rollers being laterally separable, annular guide grooves in said last-mentioned rollers adapted to receive the coils of said spiral binding element therewithin, vertically adjustable means for supporting the perforated stack with its perforations in the path of movement of the spiral binding element, said means having a portion thereof mounted for resilient endwise movement, power means for actuating said power driven rollers, control means for starting said power means, means automatically active when the advancing spiral has reached a predetermined point to shut off the power means and simultaneously therewith to retard and stop the rotation of the rollers, and pedal-operated means for separating said laterally separable rollers so as to release the bound stack.



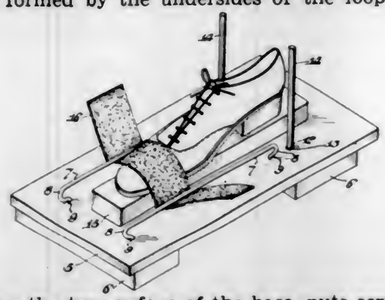
2,166,520
TRUCK SIGNAL
Neville B. Challoner, Los Angeles, Calif.
Application February 28, 1938, Serial No. 192,986
4 Claims. (Cl. 40—128)



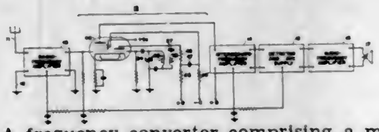
1. The combination with a truck, of a danger signal comprising a springheld reel mounted on the truck, a cord fastened to and extensible from said reel, a member on the free end of said cord having elements shaped to engage loads of various kinds on the truck, and a signal flag secured to said member and freely suspended therefrom.

2,166,521
SHOE POLISHING DEVICE
William B. Derbyshire, Philadelphia, Pa.
Application November 27, 1937, Serial No. 176,785
2 Claims. (Cl. 15—266)

1. In a shoe polisher, a base, a pair of side guides each produced from a round rod and fashioned to provide a bar, an inturned loop at each end and a threaded terminal projecting downwardly from each loop, the terminals of said guides passing through the base with shoulders formed by the undersides of the loop engaging the top surface of the base, nuts screwed onto said terminals and engaging the underside of the base, and a foot rest mounted on said base between said guides with its top surface above the guides.

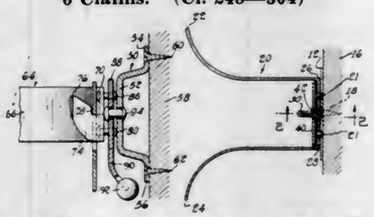


2,166,522
FREQUENCY CONVERTER
John F. Farrington, Flushing, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application March 16, 1938, Serial No. 196,124
7 Claims. (Cl. 250—20)



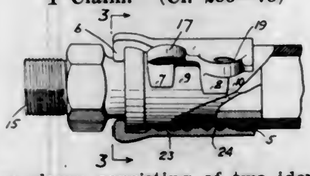
1. A frequency converter comprising a modulator section and an oscillator section, each of said sections including a space current path comprising input and output electrodes, a signal-input circuit coupled to the modulator input electrode, a frequency-determining circuit coupled to said oscillator section, impedance means included in the space current path of said oscillator section and substantially uncoupled with said frequency-determining circuit, a second input electrode in the space current path of said modulator section, and means for coupling an oscillation voltage developed across said impedance to said second input electrode to modulate the signal input to said modulator section, whereby the resonant frequency of said frequency-determining circuit is not appreciably affected by variations in the impedance of the circuit of said second electrode.

2,166,523
SUPPORTING MEANS
Arthur H. Gaebel, Larchmont, N. Y.
Application March 3, 1937, Serial No. 128,711
6 Claims. (Cl. 248—304)



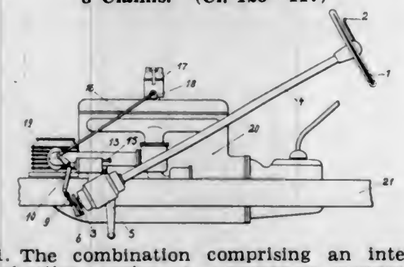
6. A supporting means for a generally long narrow object having an upwardly and outwardly extending projection whose top edge slants down and is terminated in a relatively deep narrow groove and whose front edge slopes down and in, and a pair of guide arms to the sides of said projection extending out in the same general direction.

2,166,524
HOSE CLAMP
Howard W. Goodall, Aldan, Pa.
Application September 21, 1938, Serial No. 230,935
In Canada March 14, 1936
1 Claim. (Cl. 285—78)



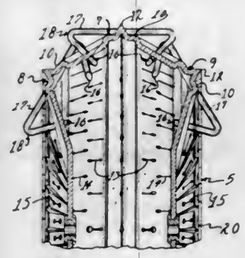
A hose clamp consisting of two identical one piece clamp sections each of the general form of a segment of a hollow cylinder of more than 180 circular degrees in extent, each clamp section being internally semicylindrical and provided with outwardly flaring marginal extensions, said extensions being circumferentially recessed providing tongues and spaces of different circumferential lengths and adapted to interengage, the ends and roots of successive tongues being circularly displaced to provide the effect in a single clamp structure of two clamp structures placed side by side with their meeting edges out of alignment, perforated lugs arranged in circumferentially staggered relation and projecting outward from the exterior of each clamp section in parallel confronting relation when the sections are assembled, and bolts for connecting the lugs.

2,166,525
INTERNAL COMBUSTION ENGINE
Albert Heess, Stuttgart-Bad-Cannstatt, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application July 28, 1937, Serial No. 156,083
In Germany August 1, 1936
8 Claims. (Cl. 123—117)



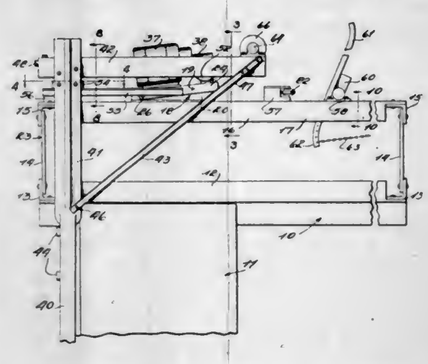
1. The combination comprising an internal combustion engine, a compressor cooperating therewith, an element for timing the ignition of said engine movable between an advanced position and a retarded position, a manually adjustable element connected with said first-mentioned element for manual control of the ignition, a member controlled by said compressor, and means connecting said member with said movable element and adapted to displace the latter towards its retarded position, when said compressor is active, irrespective of the position of said manually adjustable element.

2,166,526
HOLDER FOR HOG OR SWINE RINGS
Colle Johnson, Port William, Ohio
Application January 5, 1939, Serial No. 249,414
4 Claims. (Cl. 206—1)



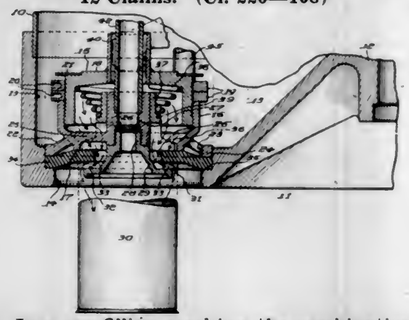
1. In a device of the kind described, a flat, hollow shell formed with a plurality of circumferentially extended and laterally spaced ribs, there being rows of apertures piercing the walls of the shell along at either side of each rib, the said apertures as to each rib being transversely aligned to provide spaced pairs of apertures, each pair of apertures being adapted to frictionally engage the spaced legs of a hog ring for mounting such rings on the shell, the said ribs serving as supports for the leg connecting stems of the rings as mounted.

2,166,527
OPERATING MEANS FOR ELEVATOR DOORS
Eric K. Johnson, New York, N. Y.
Application March 24, 1938, Serial No. 197,930
2 Claims. (Cl. 268—53)



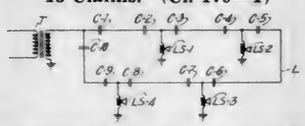
1. An elevator door actuating mechanism including a platform extending in the direction of movement of said door, a bracket fixed to said door to move therewith and having a member extending longitudinally above said platform in spaced relation thereto, a friction rail fixed to said member on the under side thereof, a motor base fixed on said platform and having a swingingly mounted motor supporting element, spring means urging one end of said motor supporting element upwardly from said platform, a motor mounted on said supporting element, a worm driven reduction gear actuated by said motor and having an output shaft, and a friction wheel fixed on said shaft and frictionally engaging said rail.

2,166,528
CAN-FILLING MACHINE
Erich H. L. Johannes, Audubon, N. J., assignor to Campbell Soup Company, a corporation of New Jersey
Application February 17, 1938, Serial No. 190,909
12 Claims. (Cl. 226—108)



1. In a can filling machine, the combination of a tank having a discharge opening therein, a measuring chamber supported over said opening and having a port therein arranged to admit liquid from said tank and discharge the same into the can, an inlet valve seat on said chamber, an outlet valve seat on said chamber and spaced from said inlet valve seat, and a flexible valve member normally co-operating with said outlet valve seat to prevent the discharge of liquid into the can and flexibly movable by the can into co-operation with said inlet valve seat to prevent the passage of liquid from said tank into said chamber.

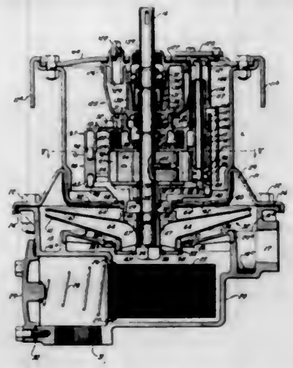
2,166,529
COMMUNICATION SYSTEM
Carl C. Langevin, San Mateo, Calif., assignor to Guided Radio Corporation, New York, N. Y., a corporation of New York
Application April 1, 1937, Serial No. 134,233
13 Claims. (Cl. 179—1)



1. A communication system comprising a loop circuit, a transmitter including an output transformer, a connection from one terminal of the transformer secondary to said loop, a plurality of loudspeakers, a physical connection from one terminal of each loudspeaker to said loop circuit and a ground connection to the remaining terminal, and an impedance in said loop circuit at either side of each loudspeaker connection.

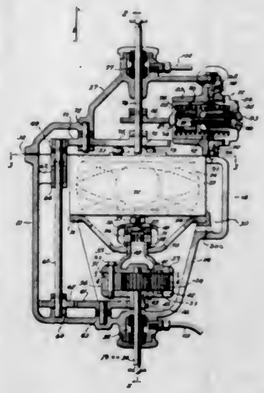
2,166,530
FLUID-HANDLING APPARATUS
Porter S. Morgan, New York, N. Y., assignor, by mesne assignments, to Bohleber & Ledbetter, New York, N. Y., a partnership composed of William Bohleber, James Camrod Ledbetter, Francis H. Fasset, and John M. Montstream
Application September 18, 1935, Serial No. 41,051
Renewed May 17, 1939
1 Claim. (Cl. 103—113)

Pumping apparatus comprising, an impeller casing having a liquid inlet and a liquid outlet; an impeller mounted on a vertical shaft within said casing; a closure for said casing having an aperture adjacent to the shaft of the impeller; and an auxiliary pump mounted on the shaft and on top of said closure, the auxiliary pump having an inlet communicating with the impeller casing through said aperture in said closure, and an outlet discharging into a separating chamber,



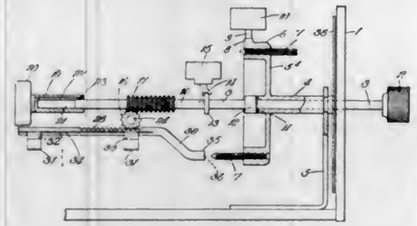
an air outlet port leading to atmosphere from said separating chamber, and a float-valve controlled liquid outlet passage leading from said separating chamber to said impeller casing through said closure aperture.

2,166,531
MEANS FOR OPERATING REGISTERS FOR FLUID DISPENSING SYSTEMS
Porter S. Morgan, New York, N. Y., assignor, by mesne assignments, to Bohleber & Ledbetter, New York, N. Y., a partnership composed of William Bohleber, James Camrod Ledbetter, Francis H. Fassett, and John M. Montstream
Application January 31, 1936, Serial No. 61,725
Renewed May 12, 1939
5 Claims. (Cl. 73—232)



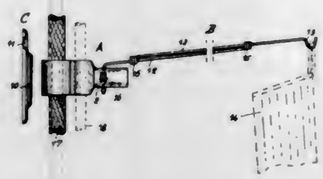
1. In combination with a liquid meter having a flow responsive part, a housing for the meter, a gear pump disposed in the housing, a driving shaft extending into the housing and connected to one element of said pump, a driven shaft extending from the housing and connected to another element of the pump, inlet and discharge ports for the pump, and means actuated by the flow responsive part of the meter for varying the opening of the discharge port whereby said pump may be converted into a hydraulic clutch.

2,166,532
MEANS FOR CONTROLLING WIRELESS RECEIVING APPARATUS
James Henry Naden, Hendon, London, England, assignor to Precision Wireless Devices Limited, London, England, a British company
Application December 24, 1937, Serial No. 181,620
In Great Britain April 16, 1937
7 Claims. (Cl. 250—20)



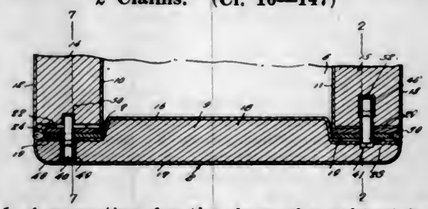
5. Apparatus for operating the tuning means of radio and like receivers, comprising a control head, a shaft secured to said head and arranged for axial and angular adjustment, a first mechanical connection from said shaft to the operating member of the tuning means, said mechanical connection permitting axial movement of the shaft only to be effective, an axially movable member associated with said first connection so as to move always in accordance with the axial movement of said shaft, a pre-selector device having abutment means projecting at varying distances therefrom and being arranged for rotary movement on said shaft, a second mechanical connection from said shaft to said pre-selector device, to permit only the angular adjustment of said shaft to be effective on said pre-selector device, the latter being disposed so that the abutment means thereof may be selectively brought to positions where said axially movable member has its axial movements selectively limited to varying extents by contact with said abutment means.

2,166,533
SUSPENSION DEVICE
Erwin Oettel, Zeitz, Germany
Application November 2, 1937, Serial No. 172,370
In Germany April 30, 1937
4 Claims. (Cl. 248—289)



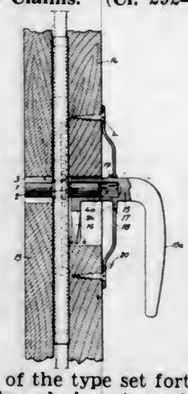
3. In a suspension device for articles of light weight for suspending them at a certain minimum distance from fixed objects, a resilient clip operable about a vertical axis for attachment to the fixed object and having clamping openings of different size, and at least one cantilever supporting means for the articles mounted on the said clip, the said cantilever supporting means being bent substantially at right angles at its inner end to form the hinge pin of the clip.

2,166,534
RIGHT AND LEFT OPENING DOOR AND HANGER STRUCTURE
Calvert S. Rosenfeld, Darby, Pa.
Application April 9, 1938, Serial No. 201,138
2 Claims. (Cl. 16—147)



1. A mounting for the door of a cabinet having an access opening, consisting of an annular hanger encircling said opening and located between the opposed faces of the cabinet and the door, the overall dimensions of said hanger with respect to the corresponding dimensions of the cabinet and the door being such as to form a circumferential space about said hanger and between the opposed faces of the cabinet and the door to receive a compressible gasket for sealing purposes, means including pin barrels for hinging one side of said hanger to the front of said cabinet, means including pin barrels for hinging the opposite side of said hanger to said door, each pin barrel on the hanger being formed in a lateral offset in the plane of said hanger, latching devices for respectively locking one side of said hanger to said cabinet and the other side of said hanger to said door, and independent operating means for controlling said latching devices.

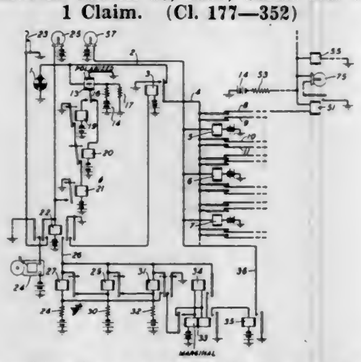
2,166,535
LOCK FOR DOORS AND THE LIKE
Einar Särenholm and Helge Warrol, Eskilstuna, Sweden
Application November 18, 1937, Serial No. 175,178
In Sweden April 30, 1936
10 Claims. (Cl. 292—5)



1. In a lock of the type set forth for windows, doors or the like, a lock casing, a locking rod projecting from each end of the casing with a rack on the inner end of each locking rod within the casing, a shaft journaled through the casing with at least one end of the shaft projecting outwardly of the casing, a pinion on said shaft in meshing engagement with said racks and said racks being of normally greater length than required for the operation of said locking bolts carried thereby whereby the locking rods and racks may be initially set to accommodate the mounting of the lock on windows, doors or the like of

different sizes, a guide casing through which each locking rod extends associated with the lock casing and being movable relative to the locking rods and lock casing, said shaft being longitudinally corrugated over its entire periphery, and an operating handle carrying a hollow spindle and having interior corrugations mating with the corrugations on the shaft for the operation of the shaft, pinion and locking bolts.

2,166,536
SIGNALING SYSTEM
George N. Saul, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 26, 1936, Serial No. 71,056
1 Claim. (Cl. 177—352)



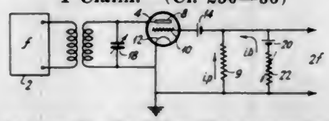
In combination, a grounded load circuit including a load having one terminal grounded, a source of current having one terminal grounded and a supply lead of appreciable resistance interconnecting the ungrounded terminal of said load and the ungrounded terminal of said source of current, said load drawing a known maximum current from said source and producing a known maximum potential drop over said supply lead, a polarized relay, a second supply lead interconnecting one terminal of said relay and the ungrounded terminal of said source of current, means connecting the second terminal of said relay to the ungrounded terminal of said load, and interrupter, means connecting said interrupter between the said second terminal of said relay and ground, a resistance, means connecting said resistance between the first-mentioned terminal of said relay and ground, a second resistance included in said second supply lead, said second resistance having a value such as to produce a potential drop over said second battery supply lead greater than the known maximum potential drop over said first battery lead whereby current flows through said relay in the non-operate direction when said interrupter removes ground potential from said second terminal of said relay.

2,166,537
TOBACCO PIPE
Bernard M. Shoemaker, New York, N. Y.
Application October 12, 1934, Serial No. 747,998
1 Claim. (Cl. 131—203)



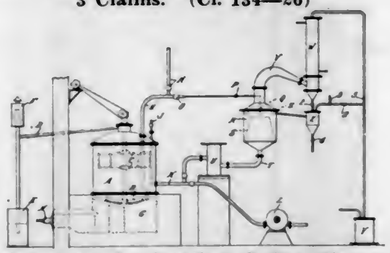
In a tobacco pipe, a bowl portion having a stem provided with a central bore, and a bit portion for said stem, the bit having a centrally disposed smoke passage and grooves arranged in the bottom of said passage, a tubular liner mounted in the smoke passage and adapted to project into the bore of the stem, said liner having its under side provided with a longitudinal slot opening into the grooves and bottom of the central bore of the stem beyond the bit, and an absorptive member mounted in said grooves and arranged under the liner throughout its length to receive condensate from the liner and to wipe the wall of said bore when the bit is turned.

2,166,538
FREQUENCY DOUBLER
Henry Shore, Brooklyn, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application June 22, 1937, Serial No. 149,647
1 Claim. (Cl. 250—36)



In a system for doubling the frequency of wave energy, an electron discharge device having an anode and a cathode, means for coupling said anode and cathode to a source of said wave energy only, said electron discharge device having a grid, an output circuit coupled only to said grid and cathode, means for applying a positive potential to said grid relative to said cathode whereby wave energy of double the frequency of the wave energy of said source is produced in said output circuit and means including a variable resistance and a source of potential connected in said output circuit to buck out the direct current component produced therein.

2,166,539
COOKING OF DRYING OILS AND VARNISHES
Henry Vincent Aird Briscoe, Barnes, London, England
Application May 5, 1937, Serial No. 140,832
In Great Britain May 8, 1936
3 Claims. (Cl. 134—26)

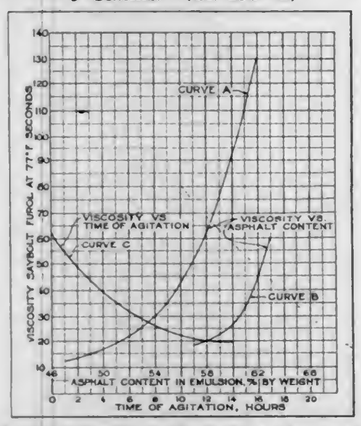


1. A process for treating drying oils or varnishes during their cooking or polymerisation, comprising the steps of heating the oil or varnish in a closed kettle at substantially atmospheric pressure to cook or polymerise the same, withdrawing a proportion of the hot oil or varnish from the said kettle during a major part of the said process of cooking or polymerisation and introducing it into a separate distillation chamber, subjecting the oil or varnish thus withdrawn while still at or near the kettle temperature to a distilling operation under vacuum in said separate distillation chamber and returning it while still hot to the kettle against the pressure in said kettle, repeating said steps with different portions of said oil or varnish so that the whole body of the oil or varnish is subjected repeatedly to the said distilling operation while the cooking or polymerisation is being carried out.

2,166,540
ALCOHOLIC TREATMENT OF LIGNEOUS CELLULOSIC MATERIAL
Alan J. Bailey, St. Paul, Minn., assignor to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application December 17, 1937, Serial No. 180,331
10 Claims. (Cl. 92—9)

1. The process of obtaining relatively pure cellulose from wood which comprises treating said wood with a water solution of a mono-hydroxy alcohol having at least four carbon atoms at least three of which are in a straight chain which is substantially insoluble in water at normal temperatures, but soluble therein at temperatures between 100° C. and 200° C., and an inorganic alkali in an amount from about 2% to about 10%, at temperatures from about 100°C. to about 200°C. thereby to water solubilize substantially all of the non-cellulosic constituents of the wood and thereafter separating the cellulosic constituent of the wood from the solution containing the solubilized non-cellulosic constituent.

2,166,541
EMULSIONS AND PROCESS FOR PRODUCING THE SAME
Ulric B. Bray, Palos Verdes Estates, and Lawton B. Beckwith, San Pedro, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application April 27, 1936, Serial No. 76,528
9 Claims. (Cl. 134—1)



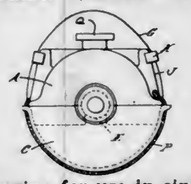
1. A process for producing an aqueous bituminous emulsion of low viscosity containing in excess of 50% by weight of bitumen which comprises melting bitumen, commingling said melted bitumen with a sufficient amount of an aqueous solution containing an emulsifying agent to produce a fluid emulsion of the quick-breaking type containing in excess of approximately 50% by weight of the bitumen and which emulsion when cooled to a temperature of approximately 120° F. or below without substantial agitation results in an emulsion of relatively high viscosity, cooling said emulsion to a temperature of approximately 120° F. or below and agitating said cooled emulsion for a sufficient period of time to reduce the viscosity of said emulsion to approximately 30 seconds or less Saybolt furol at 77° F.

2,166,542
OXYGEN-CONVERTIBLE COMPOSITIONS
Theodore F. Bradley, Stamford, Conn., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application September 24, 1937, Serial No. 165,485
7 Claims. (Cl. 260—6)

1. A composition comprising an aqueous solution of an oxygen-convertible ester of a polyhydric alcohol and an acid selected from the group consisting of maleic acid, maleic anhydride and fumaric acid, said polyhydric alcohol containing at least three ether linkages in the chain separating the OH groups and having not over three hydroxyl groups, said esters being soluble in water without the aid of alkaline solubilizing materials.

6. The composition of claim 1 which includes a water soluble and compatible material selected from the group consisting of glues, gelatine, urea formaldehyde condensates and cellulose ethers.

2,166,543
FILM MAGAZINE FOR CINEMATOGRAPHIC CAMERAS
Charles Edward Hillery-Collings, Mitcham, England
Application November 23, 1935, Serial No. 51,220
In Great Britain November 26, 1934
3 Claims. (Cl. 242—71)



1. A film magazine for use in cinematographic apparatus, consisting of two approximately semi-circular magazine members adapted conjointly to enclose two film bobbins and dispose their axes in alinement, said magazine members mutually engaging in a plane practically coinciding with the axes of the two bobbins and being readily separable in a direction disposed at right angles to said axes, and one of said magazine members having flat rigid flanges adapted to fit and engage with the other member.

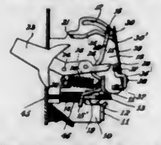
2,166,544
CONVERSION OF HYDROCARBONS
Thomas Cross, Jr., Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application December 17, 1935, Serial No. 54,961
3 Claims. (Cl. 196—50)

1. A process for improving the octane number of a heavy naphtha which comprises subjecting said naphtha in the vapor state at a temperature between about 900 and about 1050° F. to the action of an activated Marsil clay.

2,166,545
ELECTRIC SWITCH
Benjamin E. Getchell, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application May 17, 1938, Serial No. 208,428
28 Claims. (Cl. 200—116)

1. In a switch, a frame, a stationary switch contact, a spring pressed slide, a switch member

carried by said slide, a floating lever having one end coacting with said slide and a pivotal connection for its other end, a guiding pin and slot connection between the frame and the floating lever, a finger lever having a rolling engagement



with said floating lever and a spring for pivoting said floating lever at its point of engagement with the finger lever for moving said slide to open circuit position and permitting said slide to move to the closed circuit position.

2,166,546

STABILIZATION OF BLUE-PRINT COATINGS

Garnet Philip Ham, Old Greenwich, and Robert Bowling Barnes, Stamford, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application April 8, 1939, Serial No. 266,864

8 Claims. (Cl. 95—6)

1. A blue print coating solution containing a light sensitive iron salt, a ferricyanide, and a small amount of a persulfate.

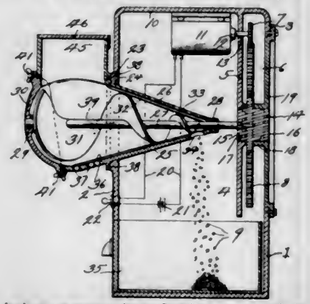
2,166,547

FRUIT JUICE EXTRACTOR

James J. Horvath, South Bend, Ind.; Mary Horvath, executrix of James J. Horvath, deceased

Application May 8, 1937, Serial No. 141,393

3 Claims. (Cl. 100—48)



1. A juice expressing device comprising a housing, a worm casing removably mounted and extending into one side of the housing and having a worm therein, said casing having a feed opening and a juice discharge opening therein exteriorly of said housing and a refuse discharge opening therein interiorly of said housing, a worm drive means within the housing, a worm shaft extending from the worm casing and having a separable driving connection with the worm drive means within the housing.

2,166,548

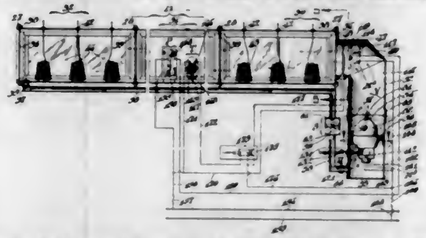
TEXTILE MACHINE YARN CONDITIONER

Henry Janssen, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania

Application October 28, 1936, Serial No. 107,922

7 Claims. (Cl. 66—125)

1. An air-conditioning device for a knitting machine, comprising conduit means including a housing, yarn-supply supporting means in the housing, means providing for the feeding of yarn from the supply through wall-aperture means in the housing to the knitting mechanism of the machine, a unit for providing a vapor for the con-



duit, and impelling it along the conduit, and means spaced along the conduit for the unit for boosting the impelling force of the vapor.

2,166,549

ALKALI NITRITES AND CHROMATES

Napoleon A. Laury, Bound Brook, N. J., assignor to The Calco Chemical Co., Inc., Bound Brook, N. J., a corporation of Delaware

No Drawing. Application June 23, 1937, Serial No. 149,927

7 Claims. (Cl. 23—56)

1. A method of producing chromates and nitrites of alkali forming metal which comprises treating the tail gases from an ammonia oxidation nitric acid plant with an aqueous dispersion of the metal carbonate to form a mixture of nitrate and nitrite, concentrating the solution and cooling to crystallize out the nitrite substantially free from nitrate, evaporating to dryness the nitrites and nitrates of the mother liquor, mixing the solid nitrites and nitrates with chromium oxide containing material in the approximate proportion of 1 mol of chromium oxide to 2 mols of nitrate and nitrite, and heating the mixture to 600–800° C. whereby metal chromate and a mixture of nitrogen oxides is obtained and mixing the gases with the tail gases from the nitric acid plant.

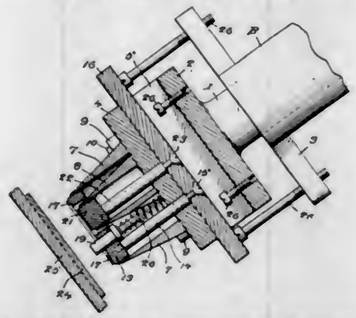
2,166,550

MAKING SHAPED CASEIN PLASTICS

John A. Parsons, Bainbridge, N. Y., assignor to American Plastics Corporation, New York, N. Y., a corporation of New York

Application November 26, 1937, Serial No. 176,731

8 Claims. (Cl. 18—48)



1. A process which comprises stamping and somewhat forming pieces from a sheet of cold uncured plasticized casein mass between cold surfaces, said plasticized casein mass containing a liquid plasticizing agent, such steps being conducted without applying heat to the casein material and thereafter curing the said pieces.

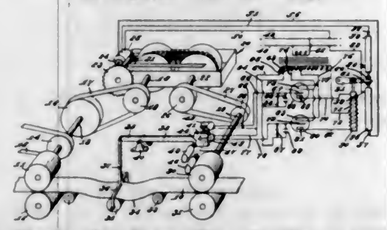
2,166,551

PHOTOELECTRIC CONTROL OF VARIABLE-SPEED MECHANISM

William R. Perry, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana

Original application March 28, 1932, Serial No. 601,606. Divided and this application April 22, 1937, Serial No. 138,344

10 Claims. (Cl. 271—2.3)



1. Means for forwarding ductile material of low tensile strength at constant weight per unit length, comprising forwarding means, means for driving said forwarding means, a forwarding roll spaced from said forwarding means, variable-speed means for driving said forwarding roll, a vertically reciprocable idler roll positioned between said forwarding means and said forwarding roll, a portion of said material being constantly supported upon said idler roll, two vertically spaced photo-electric cells, a light source directing beams of light toward said cells, an opaque element shiftable in response to reciprocation of said idler roll, and normally disposed out of shielding relation with both of said cells and adapted, when shifted in either direction from its normal position, to obstruct one or the other of said beams, and connections between said cells and said variable-speed means whereby, when said opaque element is shifted in response to downward movement of said idler roll, said variable-speed means will be operated to increase the speed of said forwarding roll, and when said opaque element is shifted in response to upward movement of said idler roll, said variable-speed means will be operated to decrease the speed of said forwarding roll.

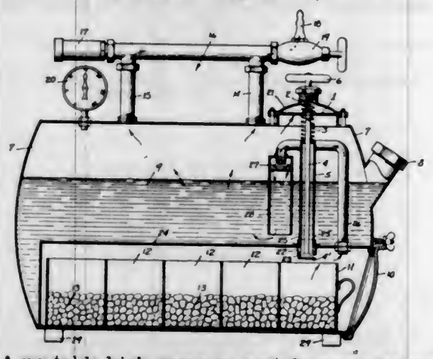
2,166,552

PORTABLE ACETYLENE GENERATOR

Herman Reiner, New York, N. Y.

Application November 1, 1935, Serial No. 47,779

1 Claim. (Cl. 48—8)



A portable high pressure acetylene gas generator having two separate chambers, one adapted to hold a carbide tray removable through a gas tight closure means, the other with a water supply inlet to hold water, a water valve connecting the water chamber with the carbide chamber, a tubular connection including a gas check valve from the carbide chamber to the water chamber, said water valve controlled by an adjustable spring actuated rubber diaphragm responsive to any predetermined change of pressures of the gas in the water chamber, said gas check valve adapted to automatically clean and filter said gas and preclude the escape of said gas into the atmosphere during any opening of or access to the carbide tray, a gas outlet connection from the water chamber, to a safety pressure valve, a pressure indicator responsive to gas pressure in said chambers and a manually adjustable gas discharge top outlet.

2,166,553

UPHOLSTERY CLIP

Clarence J. Rennekamp, Silverton, Ohio, assignor to The Auto-Vehicle Parts Company, Newport, Ky., a corporation of Kentucky

Application May 3, 1938, Serial No. 205,766

3 Claims. (Cl. 24—73)



1. An upholstery fastener comprising a flat metal body, anchor tangs extending outwardly from the face of the body within a margin thereof, and a channel-shaped clinching tang extending outwardly and centrally from the face of the body, adapted to be depressed inwardly for gripping the material applied over said body and under said tang.

2,166,554

1-NAPHTHALENEACETIC ACID

Richard O. Roblin, Jr., Old Greenwich, and Ingenium Hechenbleikner, Riverside, Conn., assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

No Drawing. Application June 30, 1938, Serial No. 216,752

3 Claims. (Cl. 260—515)

1. A process of producing 1-naphthaleneacetic acid which comprises reacting naphthalene with formaldehyde, hydrochloric acid and sulfuric acid to produce 1-naphthlymethyl chloride, separating the crude 1-naphthylmethyl chloride, from unreacted acid, dissolving the crude 1-naphthylmethyl chloride in an organic solvent, heating it with an alkali metal cyanide, adding caustic alkali to the reaction mixture and heating until hydrolysis has taken place, removing the organic solvent by distillation, acidifying and separating out the 1-naphthaleneacetic acid.

2,166,555

CIRCUIT BREAKER

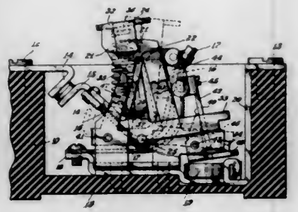
Raymond N. Rowe, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut

Application January 3, 1938, Serial No. 183,074

12 Claims. (Cl. 200—88)

1. In an electric circuit breaker, a pivoted switch member, a hinged kick-off member, a toggle arm and link holding the kick-off member in its normal position, an actuator hinged to said kick-off member, a throw-over spring connecting said actuator and said switch mem-

ber, and overload responsive means for engaging the toggle arm and causing the kick-off member



to move the actuator and switch member to open the circuit.

2,166,556

CONVERSION OF MALEIC ACID TO MALEIC ANHYDRIDE

Le Roy U. Spence, Cheltenham, and John C. Mitchell, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa.

No Drawing. Application October 16, 1937, Serial No. 169,464

3 Claims. (Cl. 260—341)

1. The process of converting maleic acid to maleic anhydride which comprises mixing maleic acid with a high boiling inert solvent for the maleic acid that boils at a temperature of at least 200° C. and a low boiling liquid that is a member of the group consisting of hydrocarbons and chlorinated hydrocarbons that boil below 130° C., heating the mixture under atmospheric pressure and distilling off the water of reaction through a fractionating column that condenses the maleic anhydride but permits the passage of water vapor and said low boiling compound, separating the said low boiling compound from the water and returning it as reflux for the fractionating column, continuing the distillation until the evolution of water diminishes, then distilling off part of the low boiling material to raise the boiling point of the reaction mixture to from 150–170° C., and distilling out substantially all the remaining water at said higher temperature

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2,166,557

COATING COMPOSITION

Sylvia M. Stoesser and Arnold R. Gabel, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application July 1, 1937, Serial No. 151,546

5 Claims. (Cl. 260—36)

1. A composition comprising polystyrene plasticized with beta-ethoxy-ethylene glycol 2-chloro-phenoxy-acetate.

2,166,558

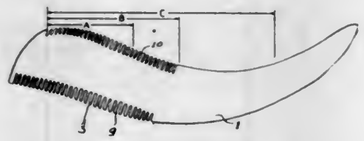
GAUGE FOR AND METHOD OF WAVING HAIR

Louis Quinio, Tarentum, Pa.

Application April 27, 1938, Serial No. 204,574

3 Claims. (Cl. 132—1)

3. A wave gauge for forming waves in a head of hair comprising a relatively thin flat strip having its longitudinal edges curved to the general contour of the human head and having teeth formed in the edge thereof.



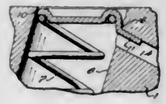
2,166,559

SPRING RETAINER

Clement C. Richard, Bloomfield Hills, Mich., assignor to Allied Products Corporation, Detroit, Mich., a corporation of Michigan

Application December 13, 1937, Serial No. 179,528

5 Claims. (Cl. 279—30)



1. A retainer providing a seat for a spring located in an aperture of a body comprising a disk like member having a central depressed portion, a projecting rim on two opposite side edges thereof having a radius approximating that of the spring aperture, the two remaining sides being of less distance across, said spring aperture having a second aperture opening thereinto, a lug extending from one of the radial edges of the body adapted for insertion in the said second aperture, the disk and lug being so formed that the pressure of the spring tends to turn the disk about the point of contact of the lug with the edge of its aperture as a center and thereby force the opposite arcuate edge of the body into wedging contact with the wall of the spring aperture opposite the lug.

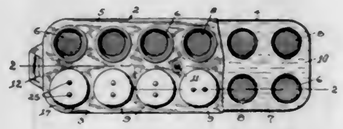
2,166,560

FREEZING CONTAINER FOR REFRIGERATORS

Anton C. Schmelzer, Cleveland, Ohio, assignor to Mary Schmelzer, Cleveland, Ohio

Application April 1, 1937, Serial No. 134,261

13 Claims. (Cl. 62—108.5)



1. An ice tray for use in the freezing unit of a refrigerator comprising a supporting rack provided with a plurality of openings, individual containers adapted to be removably seated upon said rack while partly extended through the openings thereof, rotatable means seated upon each of said containers and partly extended thereinto adapted to interlock with and rotate an ice body frozen in said container, and means in each of said containers co-operating with said rotatable means and the ice body formed in said container in axially shifting the said ice body when rotated by said rotatable means.

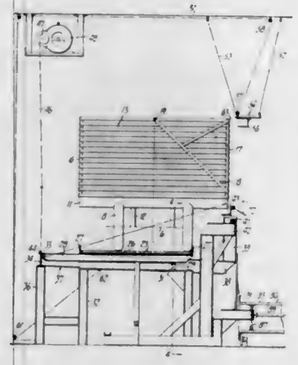
2,166,561

LETTUCE-HANDLING APPARATUS

Ellis H. Spiegl, Salinas, Calif.

Application June 9, 1937, Serial No. 147,279

3 Claims. (Cl. 214—52)



1. Lettuce-handling apparatus for use with a vehicle having wheels and a body including a bottom depressible with respect to said wheels, comprising a platform for supporting said wheels, an abutment having a horizontal portion, means for moving said platform away from said abutment to deposit the bottom of said body upon said abutment and to divide the load in the direction of said wheels between said abutment and said wheels, and means for moving said platform and said abutment in unison to tip said vehicle.

2,166,562

UMBRELLA HANDLE

Russell U. Staley, Portland, Oreg.

Application March 6, 1939, Serial No. 260,088

2 Claims. (Cl. 135—46)



1. An umbrella handle having upwardly and downwardly extending slots formed therein, each of which is adapted to receive the material in the upper edge of a mail bag for the purpose of supporting said umbrella in a raised or lowered position.

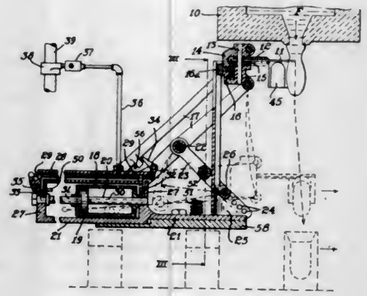
2,166,563

METHOD AND APPARATUS FOR SEVERING MOLTEN GLASS

Frank L. O. Wadsworth, deceased, late of Pittsburgh, Pa., by Mildred M. Wadsworth, administratrix, Pittsburgh, Pa., assignor to Ball Brothers Company, Muncie, Ind., a corporation of Indiana

Original application March 4, 1935, Serial No. 9,133. Divided and this application May 29, 1937, Serial No. 145,451

10 Claims. (Cl. 49—14)



7. A shear mechanism, comprising a pair of opposed shear blades, a head carrying said blades, means for moving said head downwardly, means responsive to the downward movement of said head for closing said blades, means for moving said head horizontally during the downward movement thereof, and means for opening said blades at the end of the downward movement of said head.

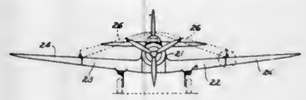
2,166,564

AIRPLANE HAVING FOLDING WINGS

John L. Atwood and Vladimir H. Pavlecka, Santa Monica, Calif., assignors to Douglas Aircraft Company, Inc., Santa Monica, Calif., a corporation of Delaware

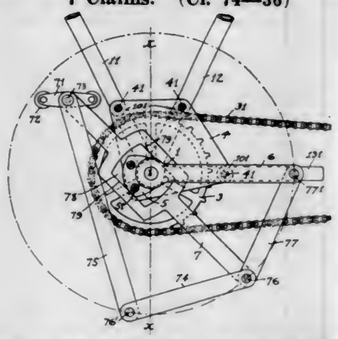
Application March 4, 1936, Serial No. 66,999

34 Claims. (Cl. 244—49)



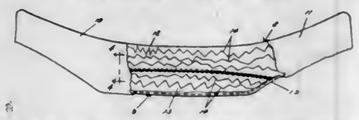
1. In a winged aerial vehicle, a hinged wing member and operating means for swinging said wing member relative to a wing supporting member, between extended and retracted positions, comprising: a hinge connecting said wing member to said supporting member, said hinge being disposed near one face of said wing member; a stationary pivot member carried by said supporting member in a position adjacent said hinge; a movable pivot member connected to said wing member in eccentric relation to said hinge; a fulcrum member having its outer end connected to said movable pivot member; a link connecting an intermediate part of said fulcrum member to said stationary pivot member; and means for applying a force to said fulcrum member to swing it on said link and swing said link on said stationary pivot member.

2,166,565
CRANK MOVEMENT ELIMINATING DEAD CENTER
Amel B. Broluska, Detroit, Mich.
Application November 7, 1938, Serial No. 239,239
7 Claims. (Cl. 74—36)



1. In a crank movement, the combination, with a fixed bearing, of a driven shaft rotatably mounted in said bearing, a driven crank secured upon said shaft, a cam-like member fixed upon said bearing, a driving arm having at one end a crank pin and at the other end a pivot, a link connecting said pivot in angularly rearward driving relation with said driven crank, and an opening in said driving arm intermediate said crank pin and said pivot adapted to slidably engage said cam-like member, whereby said crank pin is advanced beyond the dead center during the commencement of its forward stroke.

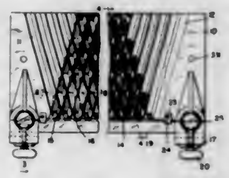
2,166,566
COAT COLLAR CONSTRUCTION
Jerome Giuseffi, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine, a corporation of Maine
Application August 17, 1938, Serial No. 225,373
3 Claims. (Cl. 2—98)



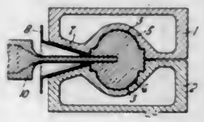
1. A coat or similar garment comprising a collar of the type adapted to be folded and creased along an intermediate longitudinal line to provide an inner and an outer collar section, the collar being made up of a top collar and an under collar superimposed one on the other, and a pair of interlining pieces in the collar, one in said outer and the other in said inner section and between the top collar and under collar thereof, said interlining pieces in the flat or turned-up position of the collar having their adjacent longitudinal edges substantially in contact with one another and said edges stitched to said under collar only.

2,166,567
SAW-FILING APPARATUS
Robert Sven Hall and Roy Denhard, Detroit, Mich.
Application February 17, 1936, Serial No. 64,395
7 Claims. (Cl. 76—36)

1. A saw filer comprising a plate having a face and a transverse edge, the face of the plate having a series of grooves therein arranged to correspond to the teeth of the saw, a pair of stops overhanging said transverse edge for engaging unfiled teeth to locate the same at the proper height, and a stop adjacent one of the first-mentioned stops and having a different height to engage the filed teeth when the unfiled teeth are at the correct height.

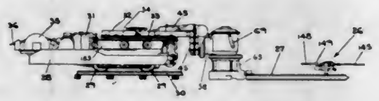


2,166,568
PROCESS OF MAKING AND COVERING ARTICLES
Otto J. Kuhlke, Akron, Ohio
Application June 15, 1938, Serial No. 213,828
5 Claims. (Cl. 107—54)



1. The process of making and at the same time covering an article with a removable wrapper comprising holding together under pressure the edges of plies of a heat softenable wrapper, injecting a warm plastic between the plies with sufficient pressure so that the material of the plies is softened and expanded against the interior of a surrounding mold and sealing the edges of the plies about the body of the injected plastic.

2,166,569
MINING MACHINE
Lewis E. Mitchell, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application May 2, 1932, Serial No. 608,585
Renewed March 8, 1939
40 Claims. (Cl. 262—9)

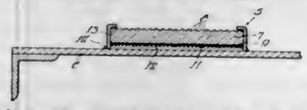


1. In mining apparatus, the combination with a wheel mounted base frame, of a turntable mounted thereon, means for adjusting the elevation and inclination of said turntable, a depending neck mounted on said turntable to move bodily therewith, a turret mounted on said neck to turn on a horizontal axis extending radially of said turntable and offset below the top thereof, a second turret mounted on said first-named turret to turn relatively thereto on an axis extending at right angles to the axis of said neck, an elongated support on said second turret, a drill unit demountably attached to the outer end portion of said support, and means for turning the turrets on their respective axes to effect adjustments of said support and said drill unit.

2,166,570
PROCESS FOR TREATING LENS CLEANING CLOTH
Attilio Panissidi, Woodhaven, N. Y.
No Drawing. Application August 8, 1938, Serial No. 223,705
3 Claims. (Cl. 51—278)

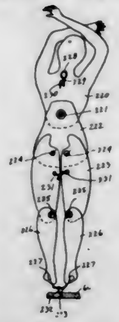
1. A lens-cleaning cloth formed of cotton fibres on which tin hydroxide has been fixed on the fibres by treating the cloth in a quantity of water containing stannous hydroxide, sodium chloride, and sodium hydroxide.

2,166,571
SIGN
Everett L. Register, Springfield, Ill., assignor to Reflection Corporation of America, Springfield, Ill., a corporation of Illinois
Application September 22, 1937, Serial No. 165,017
1 Claim. (Cl. 40—125)



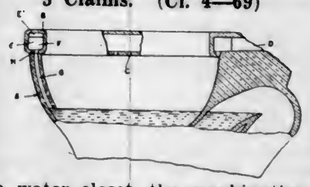
In a sign, the combination of a letter comprising a body of transparent material having a smooth surface on its rear side and a light-diffusing surface on its front side, a metallic coating on said body having a light-reflecting surface adjacent the rear side thereof, a protecting coat of hardened plastic material on said metallic coating, a backing member extending beyond the edges of said transparent material, a cementitious material adjacent said protecting coat for securing the letter to said member, a cover strip of substantially L-shaped cross section overlying the edges and a portion of the front side of the transparent material, said cover strip having an edge portion abutting and secured to the front side of said backing member, and sealing means around said letter adjacent the abutting portions of said strip and backing member.

2,166,572
ARTICULATED DISPLAY DEVICE
Carl E. Staudt, Indianapolis, Ind., assignor, by mesne assignments, to said Carl E. Staudt and Anna R. Staudt, joint owners with the right of survivorship
Application January 27, 1938, Serial No. 187,122
8 Claims. (Cl. 46—138)



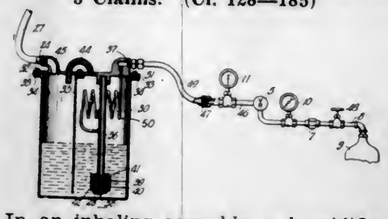
7. In combination, an articulated representation including a divided torso having portions pivotally connected together and an anchorage on the rear of the upper torso portion, a lever having an anchorage associated end and constituting the sole support for the representation, and rotative means actuating said lever.

2,166,573
WATER CLOSET
James M. Teahen, Detroit, Mich.
Application February 7, 1938, Serial No. 189,210
5 Claims. (Cl. 4—69)



1. In a water closet, the combination with a bowl having a hollow rim with downwardly directed discharge ports therein, of means for supplying water to said rim, an air vent from the rim normally open to the external atmosphere and located at a point removed from said water supply being of sufficient area for escape of air with negligible rise in pressure, and means for sealing said atmospheric opening when the air from the rim is substantially displaced.

2,166,574
OXYGEN INHALING ASSEMBLY
Albert W. Adolphsen, Kansas City, Mo., assignor to Puritan Compressed Gas Corporation, Kansas City, Mo., a corporation of Missouri
Application January 24, 1938, Serial No. 186,554
3 Claims. (Cl. 128—185)



1. In an inhaling assembly, a humidifier including in combination a casing adapted to contain water, said casing having a cover member, a pipe having a closed upper end supported from said cover member, the lower end of said pipe being disposed beneath water in said casing and formed with an aperture, porous material surrounding said aperture, means providing communication between a source of gas and said pipe intermediate its ends, said communicating means being provided with a water trap and means communicating with said casing for withdrawing the humidified gas.

2,166,575
MEANS AND METHOD FOR REFUELING AIRCRAFT IN FLIGHT OR LIKE OPERATION
Richard Llewellyn Roger Atcherley, South Farnborough, England
Application May 15, 1936, Serial No. 79,980
In Great Britain June 4, 1935
13 Claims. (Cl. 244—135)



1. A method of establishing physical connection between independent dirigible aircraft while in flight, consisting in trailing a line from one

aircraft and maintaining such line substantially in the horizontal plane of flight of the aircraft, trailing a second line from the cooperating aircraft, maintaining the second line at a substantial angle to the horizontal plane of flight of the second aircraft, maneuvering the aircraft to cause the lines to intersect beyond the aircraft, one of the lines having engaging means so that on intersecting the other of such lines a substantial connection between the lines will be established, and drawing one of the lines into the aircraft to which it is connected to thereby draw into such aircraft the line connected to the other such aircraft, whereby to establish physical connection between the aircraft for the transfer of any materials.

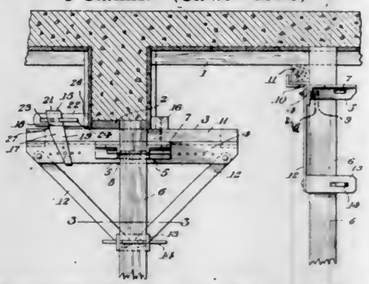
2,166,576

FORM RELEASE SHORE HEAD

Jake Gus Bauer, Albuquerque, N. Mex.

Application January 24, 1938, Serial No. 186,698

5 Claims. (Cl. 25—131.5)



1. In combination, a mold to receive plastic material, a shore for the mold and engageable with the plastic material, a supporting bar to engage the mold and the shore, spaced arms having slots carried by the bar and receiving the shore, and a wedge-shaped pin received by said slots and engageable with the shore.

2,166,577

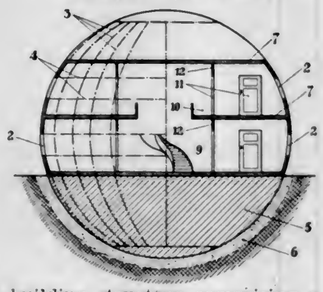
BUILDING SUITABLE FOR COUNTRIES LIABLE TO EARTHQUAKES

Antoine Beckius, Luxemburg, Luxemburg

Application September 26, 1938, Serial No. 231,792

In Luxemburg October 6, 1937

4 Claims. (Cl. 72—77)



1. A building structure comprising a metallic framework of spherical shape, the lower portion to the extent of at least one-fourth of the volume of the entire framework resting freely in a correspondingly shaped excavation in the ground, and a mass of concrete or the like forming a base for and maintaining the shape of the metallic framework, said mass of concrete being in such volume that the center of gravity of the entire structure is within the mass of concrete.

2,166,578

CONCEALED CARPET TACKING TAPE

Ted W. Bernhardt, San Fernando, Calif.

Application June 21, 1938, Serial No. 214,967

2 Claims. (Cl. 16—16)



1. Tacking tape as described comprising a tape strip adapted to have an edge secured to an edge of a carpet and having an opposite edge secured to said carpet along a line spaced from said carpet edge, a second tape strip secured to and along said first strip adjacent said carpet and a plurality of tacks extending through said first strip and having the head portions thereof between said strips.

2,166,579

MANUFACTURE OF AMMONIUM NITRATE

Robert W. Cairns, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 12, 1937, Serial No. 153,280

5 Claims. (Cl. 23—103)

1. In a process of preparation of dense granular ammonium nitrate the steps which include effecting a progressive temperature change in a suspension of needle-like ammonium nitrate crystals in a saturated aqueous ammonium nitrate mother liquor, said temperature change including a transition point temperature which is about 32.1° C., subjecting the suspension to sufficiently vigorous agitation to cause fragmentation of the needle-like crystals while the temperature of the suspension passes through said transition point, and withdrawing the said broken crystals before substantial regrowth of needle-like crystals.

2,166,580

MOTOR VEHICLE SAFETY DEVICE

John P. Caldwell, Portland, Maine

Application November 25, 1938, Serial No. 242,437

4 Claims. (Cl. 188—110)



1. In motor vehicles having brake systems in which the brakes are applied by movement of a brake pedal, and having a steering wheel, the combination with the brake pedal of means to apply braking pressure to the pedal, electrically releasable means to hold said applying means inoperative, and means including a photo-electric relay and photo-tube, and an electric circuit including said relay and said electrically releasable means, and light ray projecting means in cooperative relation to the steering wheel and to said photo-tube and constructed so that only when the steering wheel is clear will it effect a release of said electrically releasable means to effect the operation of said brake pressure applying means.

2,166,581

SLIDER LOCK

Alfred E. Carlile, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania

Application July 21, 1934, Serial No. 736,367

7 Claims. (Cl. 70—68)



1. A slider for slide fasteners of the type having a pair of flexible stringers and interlocking members, comprising a slider body having a guide channel to receive said interlocking members, a lock housing attached directly to the front face of the slider body, a locking member wholly within said housing and adapted to enter the channel and engage between interlocking members, and means separate from the locking member and extending through the housing for manually controlling the operation of said locking member to lock or unlock the slider, said means also serving as a pull tab for the slider when unlocked.

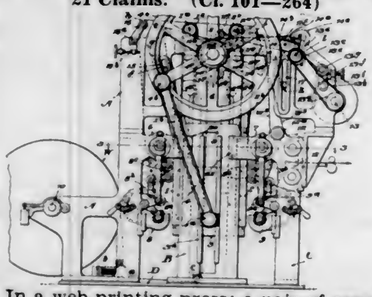
2,166,582

STOP CYLINDER VERTICAL RECIPROCATING FLAT BED PRESS

Paul F. Cox, Chicago, Ill.

Application December 27, 1938, Serial No. 247,932

21 Claims. (Cl. 101—264)



1. In a web printing press; a pair of oppositely facing type beds; means for vertically reciprocating said beds; an impression cylinder adjacent and coacting with each bed; means for directing a web successively between the cylinders and beds, means for feeding the web, means for looping the unprinted web between the feed and first impression cylinder, and means for delivering the web after it passes the second bed and cylinder.

2,166,583

CONTINUOUS STRIP PICKLING METHOD AND APPARATUS

Robert Ashford Critten, Gary, Ind.

Application January 15, 1938, Serial No. 185,209

5 Claims. (Cl. 148—8)

3. The method of changing the pickling solutions in a plurality of consecutively arranged pickling tanks for pickling continuous strip metal, each of said pickling tanks having a pickling solution therein of the proper acid concentration for properly pickling the strip as it continuously passes therethrough and an extra tank through which the strip also passes during the pickling thereof comprising emptying the used pickling solutions from each of the tanks, one at a time, into said extra tank, and recharging each of said pickling tanks successively with the pickling solution of the proper acid concentration while the strip is passing through each of the tanks and being pickled.



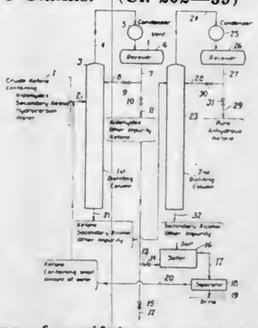
2,166,584

PURIFICATION OF KETONES

Richard M. Deanesly, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application November 25, 1935, Serial No. 51,467

6 Claims. (Cl. 202—39)



1. A process of purifying a crude ketone containing hydrocarbon, aldehyde, water and secondary alcohol obtained in the manufacture of ketone from the corresponding secondary alcohol which comprises distilling said crude ketone to remove therefrom a top product comprising substantially all the aldehyde content together with substantially all of another impurity present in said crude ketone and not more than a minor part of said ketone, and then distilling the bottom product thereby obtained to recover therefrom ketone in a substantially pure form as overhead product and to leave as a second bottom product substantially all the secondary alcohol and other remaining impurity the operations being effected in two distillations.

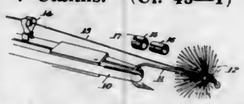
2,166,585

DEVICE, ADAPTER, TOOL, OR THE LIKE TO FACILITATE THE MANUFACTURE OF ARTIFICIAL FISH LURES

Merlin M. Evans, Bethesda. Md.

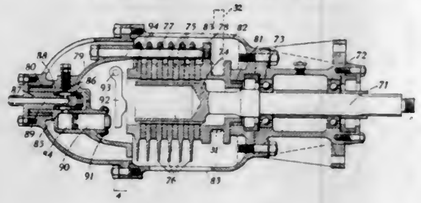
Application February 6, 1937, Serial No. 124,523

7 Claims. (Cl. 43—1)



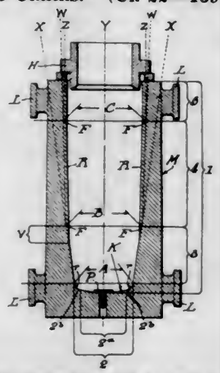
1. A holder for receiving the tying thread and the hackle of a fish lure during manufacture of the lure, comprising a slotted tube adapted to be disposed with its slot in position to permit application of the tube laterally to the tying thread and hackle of the lure, and means for closing the slot to permit the tube forming an annulus around the hackle and thread, the tube being of sufficient diameter to deform the outstanding fibers of the hackle to a position substantially in the direction of length of the lure.

2,166,586
SERVO-BRAKE MECHANISM FOR VEHICLES AND THE LIKE
Geoffrey Robert Greenbergh Gates, London, England, assignor of one-half to Automotive Products Company Limited, London, England
Application April 26, 1937, Serial No. 139,078
In Great Britain May 7, 1936
7 Claims. (Cl. 188—140)



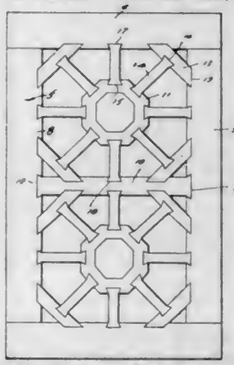
1. A servo brake mechanism of the type referred to, including a multiple plate clutch comprising one set of plates rotatable with a shaft extending concentrically therethrough, a second set of plates, a driven carrier to which the second set of plates are connected, the plates of one set being of substantially greater diameter than the plates of the other set and constituting at their outer parts cooling fins for dissipating the heat generated in the clutch, fluid pressure means for engaging said sets of plates to impart an angular movement to the carrier, and means for utilizing such angular carrier movement to apply the brakes of the vehicle, the fluid pressure engaging means including a rocker lever fulcrummed about an axis transversely to that of the clutch and operating to transmit engaging pressure to the clutch plates.

2,166,587
INGOT MOLD AND INGOT
Emil Gathmann, Catonsville, Md., assignor to Gathmann Research Incorporated, Catonsville, Md., a corporation of Maryland
Application June 1, 1938, Serial No. 211,285
5 Claims. (Cl. 22—139)



1. A metallic ingot mold having a big-end-up ingot-forming chamber defined by side walls and a bottom wall, at least two opposed side walls being in three sections from bottom to top and each of said sections being substantially straight in vertical contour, the lowermost opposed side wall sections comprising from 20% to 50% of the total chamber side wall length being tapered upwardly and outwardly to a materially greater degree than the adjoining intermediate opposed side wall sections, and said opposed intermediate sections being tapered upwardly and outwardly more than the opposed extreme upper side wall sections, and the mold walls progressively decreasing in thickness from bottom upwardly in said lower side wall sections and in said side wall sections above and adjoining said lower side wall sections.

2,166,588
DOOR CONSTRUCTION
Hans Hanson, Portland, Oreg.
Application July 28, 1938, Serial No. 221,825
1 Claim. (Cl. 20—35)



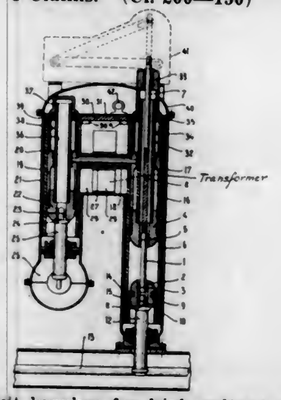
In a door structure, a frame, a cross member dividing the frame into a pair of open areas, a centrally located structure in each of the areas and brace members extending from the centrally located structure to the frame and cross member, and having their ends dovetailed into the frame and cross member, and corner members into which certain of the brace members have their outer ends dovetailed.

2,166,589
CAR AERIAL
Oscar S. Harrington, Miami, Fla.
Application August 12, 1938, Serial No. 224,576
3 Claims. (Cl. 250—33)



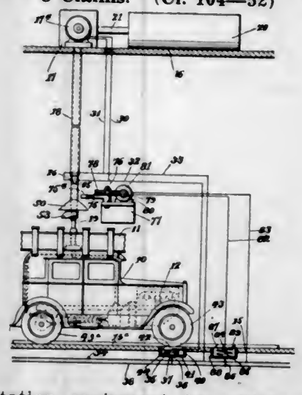
1. Radio receiving apparatus for motor vehicles, comprising the combination with a receiving set having a control switch, of a tubular housing adapted to be secured to a motor vehicle, an aerial member slidably mounted in the housing and adapted to be projected from the housing, a worm sleeved on the aerial member, a pin projecting from the aerial member and engaging the worm for moving the aerial member in a rectilinear direction when the worm is rotated, a reversing motor geared to the worm to extend the aerial member when rotating in one direction and to retract the aerial member when rotating in the opposite direction, a source of current respective circuits for reversing the field of the motor connected to said source of current and connected to the radio control switch to be controlled by said switch, turning the radio switch to "on" position, starting the motor for elevating the aerial, and turning the radio switch to "off" position reversing the motor to lower the aerial, a limit switch having two operative positions connected in said motor circuits, on the opposite side of the motor from the current source, and means carried by the aerial and engaging the limit switch to move the limit switch to one position to close one of the motor circuits when the aerial is elevated and to move the limit switch to its other position to close the other motor circuit when the aerial is lowered.

2,166,590
ELECTRIC CIRCUIT BREAKER
Hendrik A. Hidde Nijland, Laren, Netherlands
Application October 30, 1937, Serial No. 172,029
In the Netherlands November 17, 1936
3 Claims. (Cl. 200—150)



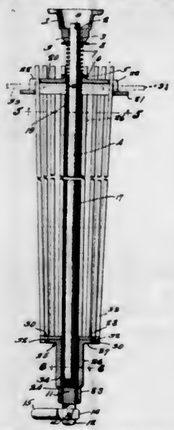
1. A circuit breaker for high voltage currents, comprising a fixed metal tank comprising two vertical tubular casings communicating with one another at their top ends and adapted to be filled with an insulating fluid such as mineral oil, insulators mounted adjacent the bottoms of said casings in the wall thereof, fixed leading-in conductors passed through said insulators and extending with one of their ends into said casings, a contact make and break element comprising fixed switch contacts and an axially movable plugging contact cooperating therewith and arranged in one of the tubular casings with the axis of the movable plugging contact in the axis of that casing, contact means connected both electrically conductively and mechanically rigidly to said fixed switch contacts, contact means provided at said ends of the leading-in conductors, the contact means connected to the fixed switch contacts and those provided at the leading-in conductors releasably engaging one another so as to permit the contact make and break element to be entirely withdrawn from and inserted into said tank, while the leading-in conductors are alive and the tank with the leading-in conductors remains in place.

2,166,591
STATION EQUIPMENT
Thomas Lloyd Hollister, Miami, Fla.
Application October 28, 1937, Serial No. 171,601
8 Claims. (Cl. 104—52)



1. A station equipment for withdrawing exhaust gases from an automobile storage tank provided with a discharge valve, said equipment comprising a tube, a suction pump connected with the tube, a valve in the tube closing the tube to prevent back flow of the exhaust gases to the station, an electric motor for operating the valve in the tube, an electric motor for operating the pump, an electric circuit for the motors, a switch controlling the circuit, and means set in motion by the wheels of the automobile when entering the station for closing the switch for causing operation of the motors, means for causing the moving automobile to align the discharge valve with one end of the tube, and means causing opening of the discharge valve when said valve aligns with the end of the tube.

2,166,592
CLOTHES DRIER
Edward A. Illig, Erie, Pa., assignor of one-half to Louis Burg, Erie, Pa.
Application September 10, 1937, Serial No. 163,311
Renewed December 17, 1938
1 Claim. (Cl. 211—116)



In a device of the class described, a hanger, a tubular main slide mounted to reciprocate on the hanger, an arm rest fixed to the upper end

of the main slide, the hanger and the main slide having fixed vertically spaced shoulders, means on the lower portion of the hanger, below the main slide, for holding the main slide against downward movement on the hanger, an auxiliary slide mounted to reciprocate on the main slide and engaged with the main slide against downward movement, arms passing slidably through the arm rest and held upwardly folded by engagement with the arm rest, the lower ends of the arms being pivoted to the auxiliary slide, said means being releasable to permit the main slide to move downwardly until the shoulders of the hanger and of the main slide engage, the auxiliary slide then being upwardly movable, to raise the arms through the arm rest and permit them to swing outwardly and downwardly until they assume a substantially horizontal position, supported by the arm rest.

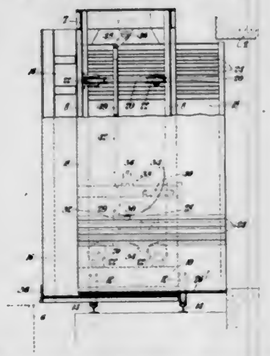
2,166,593

DISCHARGE GUIDE

James McIntosh, Pittsburgh, Pa.

Application March 24, 1937, Serial No. 132,827

4 Claims. (Cl. 214—18)



4. A coke oven discharging device adapted for movement along the discharge end of a row of parallel aligned coke ovens comprising a movable supporting means arranged for movement along the row of coke ovens, a chute-like housing member carried by said supporting means, a movable box-shaped member having a chute member disposed in the bottom thereof telescopically arranged within said housing member so as to provide an extensible chute for discharging the coke therethrough from any one of said ovens, said housing member and the chute member in the bottom of said box-shaped member together adapted to provide a continuous chute for guiding the coke therethrough, and means for moving and guiding said box-shaped member into and out of said housing.

2,166,594

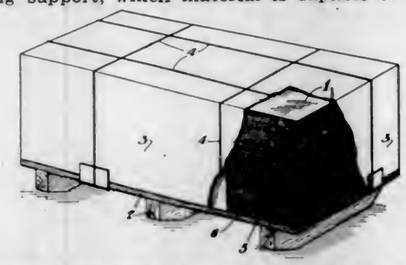
SHIPPING TIN PLATE

George S. Jenks, Pittsburgh, Pa.

Application December 7, 1936, Serial No. 114,687

3 Claims. (Cl. 206—60)

1. A package of metal sheets having finished surfaces including a shipping support, a sufficient number of the sheets piled horizontally on this support to involve a tendency for black spots to form on their finished surfaces during shipment of the package by ordinary modes of transportation, means binding the sheets on the shipping support and making the package a unit with the sheets practically unable to individually shift relative each other, and a layer of material bound into the package between the sheets and shipping support, which material is capable of absorbing the energy from vibrations having frequencies and amplitudes which will result in individual localized movements of the sheets if the same receive these vibrations.



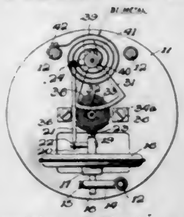
2,166,595

TEMPERATURE COMPENSATED INDICATING INSTRUMENT

Cletus J. Jenny, East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application May 21, 1937, Serial No. 144,095

3 Claims. (Cl. 73—4)



1. In a precision indicating device, a framework, an expansible element mounted in said framework, a rockshaft, means connecting said expansible element to said rockshaft, an indicating element, means connecting said indicating element to said rockshaft, a bi-metal spiral spring tangentially connected at one end thereof to said rockshaft and to the framework at the other end thereof, and a second coil spring having one end connected to said framework and the other end to said connecting means between said indicating element and said rockshaft.

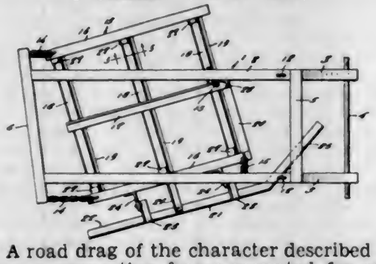
2,166,596

ROAD DRAG

John C. Johnson, Boswell, Ind.

Application October 20, 1938, Serial No. 236,077

5 Claims. (Cl. 37—177)



1. A road drag of the character described comprising a supporting frame mounted for swinging movement in a vertical plane in front of a power vehicle, a blade frame mounted diagonally beneath the supporting frame, a plurality of spaced, parallel diagonal blades fixed beneath the second named frame, and flexible elements loosely connecting said second named frame to the supporting frame.

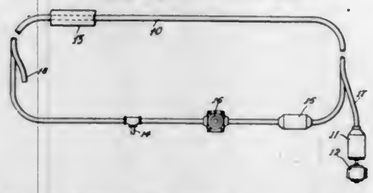
2,166,597

RUBBER CURING APPARATUS

William W. Knight, Evanston, Ill., assignor to Roth Rubber Company, Cicero, Ill., a corporation of Illinois

Application September 24, 1934, Serial No. 745,259

7 Claims. (Cl. 18—6)



1. An apparatus for curing rubber including a liquid receiving conduit, a tubing machine for projecting rubber stock into the conduit, means for injecting steam into said conduit to heat the liquid therein and to move said heated liquid through said conduit to carry the rubber stock therewith, and an outlet from the conduit for removing the stock after completion of the curing operation.

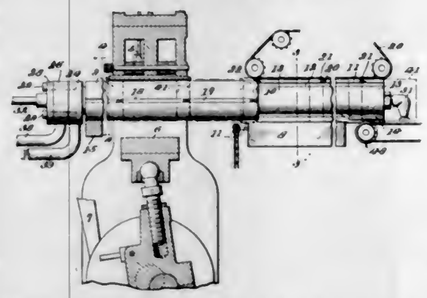
2,166,598

APPARATUS FOR SOLDERING AND COATING SIDE SEAMS OF SHEET METAL CONTAINERS

Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application July 12, 1937, Serial No. 153,272

4 Claims. (Cl. 113—60)



1. An apparatus for solder bonding and lacquering the side seam of a can body comprising a horn, a solder applying means for applying solder to the outer face of the side seam, and a lacquer applying means for applying a stripe of lacquer to the inner face of the can body in the region of the side seam, and means for presenting the side seam of the can body in succession to the solder applying means and the lacquer applying means, said lacquer applying device including a lacquer supply pipe extending longitudinally through said horn from one end thereof to the other, and means for cooling said lacquer supply pipe from the heat of the solder applying means.

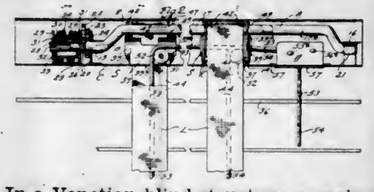
2,166,599

VENETIAN BLIND

Peter H. Kuyper, Pella, Iowa, assignor to Rolscreen Company, Pella, Iowa, a corporation of Iowa

Application December 5, 1938, Serial No. 243,958

20 Claims. (Cl. 156—17)



1. In a Venetian blind structure, a casing having laterally spaced tape openings, a tape actuating member pivotally mounted within said casing on an axis lying in a plane between said openings and having an extension spaced from the pivotal axis, tapes of a ladder tape extending through said openings into said casing and connected with said extension, rocker members rotatable on an axis substantially coincident with the axis of said tape actuating member, said rocker members having tape engaging elements located adjacent said openings when said extension is at a central position and cooperating means of engagement between said rocker members and said tape actuating member to rock one of said rocker members and thereby elevate its tape engaging element when the tape actuating member is tipped in one direction and to rock the other of said rocker members and thereby elevate its tape engaging element when the tape actuating member is tipped in the opposite direction.

2,166,600

OXYGEN CONTAINING NITRILES OF THE C_5-SERIES AND A PROCESS OF PREPARING THEM

Ernst Otto Leupold, Hofheim in Taunus, and Heinrich Vollmann, Frankfort-on-the-Main-Hochst, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application September 21, 1936, Serial No. 101,888. In Germany September 28, 1935

4 Claims. (Cl. 260—464)

4. The nitrile of the α-vinyl lactic acid, said product having the formula

$$\begin{array}{l} CH_2 \\ | \\ HO-C-CH=CH_2 \\ | \\ CN \end{array}$$

and being a clear colorless liquid, boiling at about 140° C.

2,166,601

TIME CONTROLLED RADIO SWITCH

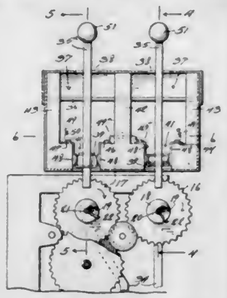
Marino S. Martignoni, Baltimore, Md., assignor of one-half to Olive L. Barrett, Marceline, Mo.

Application August 3, 1937, Serial No. 157,202

2 Claims. (Cl. 200—38)

1. A time-controlled switch mechanism for turning on a radio and turning it off at predetermined and selective periods of time, including two pairs of spaced contacts, one of the contacts of one pair being electrically connected to one of the contacts of the other pair, the remaining contacts having binding screws whereby they may be connected in a radio input circuit, two

pivoted switch levers associated with the pairs of contacts respectively and each supporting contact adapted to bridge the pair of corresponding contacts, two rotatable motor driven elements one for each lever mounted for bodily axial movement, springs urging the said rotatable elements axially in one direction, said elements when shifted under the action of the springs each engaging and moving its associated switch



lever to bring one of said contacts into circuit closing position and the other of said contacts out of said circuit closing position, and means individual to each rotatable element normally preventing the axial outward movement thereof, each of said means being manually adjustable to release the corresponding rotatable element at a predetermined instant of time.

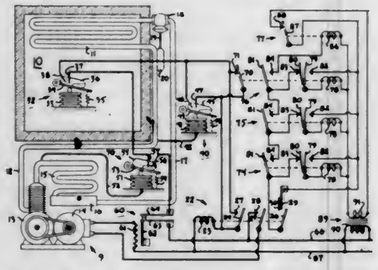
2,166,602

REFRIGERATION CONTROL SYSTEM

William L. McGrath, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application March 17, 1938, Serial No. 196,445

15 Claims. (Cl. 62—4)



1. In a mechanical refrigerating system having a compressor and an evaporator for maintaining desired conditions, the combination of, means responsive to changes in the condition being maintained to start and stop the compressor for maintaining desired conditions, means responsive to a condition which is a measure of defrosting of the evaporator to prevent the first responsive means from starting the compressor until defrosting of the evaporator has been established, and means controlled by the operation of the compressor to render said second responsive means inoperative for a predetermined number of compressor operations and then rendering said second responsive means operative whereby the evaporator is defrosted after the compressor has operated a predetermined number of times.

2,166,603

TEMPERATURE-COMPENSATED INDICATING INSTRUMENT

Anton Menzer, Brooklyn, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application May 21, 1937, Serial No. 144,094

3 Claims. (Cl. 73—4)



2. In a device of the character described a movable diaphragm, means mounted for rotation by the motion of said diaphragm, a bi-metal element connected to said first means at one end thereof, means connecting the other end of said element to said diaphragm, one end of said connecting means having a threaded portion passing through said element, and means for locking said connecting means to said element at adjustable positions along said threaded portion.

2,166,604

STABLE COMPOSITIONS COMPRISING CHLORINATED SUBSTANCES

Georg Meyer, Cologne-Mulheim, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application April 17, 1933, Serial No. 666,628. In Germany April 22, 1932

10 Claims. (Cl. 260—735)

1. Composition of matter comprising a chlorinated rubber and an ethyleneoxide derivative selected from the group consisting of phenoxypropeneoxide and its homologues and halogen substitution products, the ethyleneoxide derivative being present in an amount between about 1 and about 5% by weight, calculated on the amount of the chlorinated rubber.

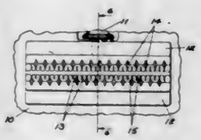
2,166,605

SHAVING IMPLEMENT

Joseph Muros, Cambridge, Mass., assignor to Gillette Safety Razor Company, Boston, Mass., a corporation of Delaware

Application February 14, 1938, Serial No. 190,427

9 Claims. (Cl. 30—43)



1. A shaving implement comprising spaced stationary members having alternate open and closed-end slots arranged transversely in staggered relation, and a reciprocatory cutter having cooperating shearing teeth.

2,166,606

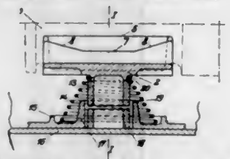
AXLE LUBRICATOR

Fritz Pesarese, Berlin, Germany, assignor to Achslager-Syndikat, Berlin, Germany, a syndicate of Germany

Application December 20, 1937, Serial No. 180,857

In Germany December 29, 1936

3 Claims. (Cl. 308—88)



1. In a lubricating device for supplying lubricant to axles mounted in journal boxes having a lubricant circulating system, a lubricator comprising a body having a central lubricant receiving and applying section of substantially the curvature of the axle and provided outwardly thereof with lubricant reservoirs, overflow edges formed between said reservoirs and said central lubricant supplying section, said edges having a medial portion of less height than the end and side walls of the reservoirs and being connected with said end walls by inclined edges whereby lubricant is directed to the axle in greater quantity at the middle of said applying section than toward the ends.

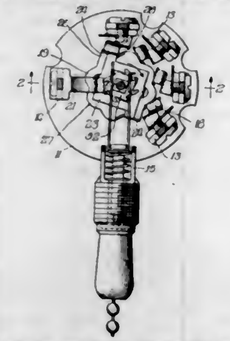
2,166,607

MULTIPLE CIRCUIT SWITCH

Rudolf Popp and Marvin C. Carlson, Valparaiso, Ind., assignors to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana

Application April 12, 1937, Serial No. 136,242

3 Claims. (Cl. 200—6)



1. An electric switch including in combination, a frame, a mounting seat supported on said frame, a spindle rotatably supported in said frame for step-by-step movement, a plurality of spring contacts fixedly mounted on said frame radially disposed from said spindle, an actuator for said spindle including a tiltable portion on the mounting seat and a linearly movable portion intermediate the tiltable portion and the spindle, with the rotary travel of the spindle for each step of movement being in direct ratio to the linear travel of the linearly movable portion of the actuator and said linear travel being limited by the width of the tiltable portion at the mounting seat, a plurality of interchangeable contact rotors for mounting one at a time on the spindle, with each contact rotor having a different number of peripheral teeth thereon for engagement by the spring contacts and each tooth width normally corresponding to a step of rotary travel for the spindle, but with the limited linear travel of the linearly movable portion of the actuator being too short for at least some of the interchangeable rotors to complete a step of movement thereof, and with the outermost portions of at least some of the teeth on each of the contact rotors being rounded to minimize the resistance by the spring contacts on a selected contact rotor and being acted upon by the spring contacts when past the center of a rounded portion to push the rotor on the spindle through the remainder of one step of its rotation after rotation has been initiated by movement of the tiltable portion of the actuator even though the corresponding linear travel of the linearly movable portion is shorter than a step travel of the rotor.
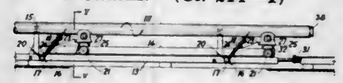
2,166,608

PIPE FEEDING AND COUPLING DEVICE

William R. Postlewaite, San Francisco, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application June 14, 1937, Serial No. 148,245

7 Claims. (Cl. 214—1)



1. A pipe feed device for a helical pipe feed machine comprising a storage rack for pipe, a carriage movable with respect to said storage rack and adapted to advance a length of pipe into said helical pipe feed machine, and means for receiving a length of pipe from said storage rack and placing it upon said carriage while said carriage is aligned with said rack, said last named means being actuated by said carriage to place said means in pipe receiving position above said carriage.

2,166,609

PIPE FEED DEVICE

Joseph F. Putnam, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware

Application June 14, 1937, Serial No. 148,246

10 Claims. (Cl. 242—11)



6. In a feed device for use with a helical pipe feed means, a track longitudinally aligned with the axis of said helical feed means, a carriage movable on said track, guiding elements on said carriage adapted to receive a pipe, said elements adapted to be set at an angle equal to the helix angle of the motion imparted to a pipe by said helical feed means, and means for restraining said carriage against longitudinal motion on said track.

2,166,610

REMOTE MULTIPLE INDICATOR

Wladimir A. Reichel, Philadelphia, Pa., and Morris F. Ketay, Brooklyn, N. Y., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

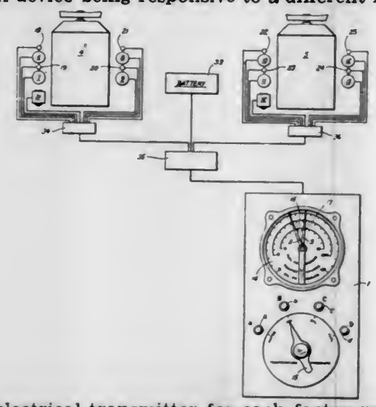
Application November 15, 1935, Serial No. 50,024

In France July 22, 1935

2 Claims. (Cl. 177—311)

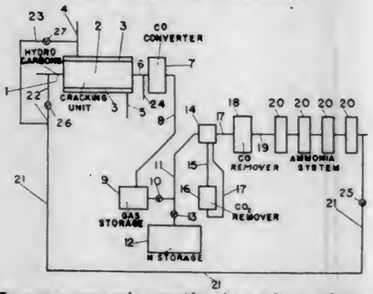
1. In combination, two or more engines and means for indicating a plurality of factors con-

tributing to the operation of said engines, said means including an indicating device remote from said engines and having a pointer for each engine and a dial provided with a plurality of scales with each of which all of said pointers are arranged to cooperate, an electrical responsive device for each of said pointers for actuating them, a plurality of devices at each engine, each device being responsive to a different factor,



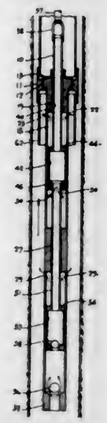
an electrical transmitter for each factor-responsive device and operated thereby, and means for selectively connecting one of the transmitters at each engine to a corresponding one of the electrical responsive means of said indicator, whereby said pointers are simultaneously actuated each to indicate selectively on the same scale one of the factors of an associated engine.

2,166,611
SYNTHESIS OF AMMONIA FROM ITS ELEMENTS
James H. Shapleigh, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
Application October 20, 1937, Serial No. 170,100
2 Claims. (Cl. 23—199)



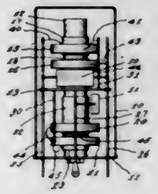
1. In an ammonia synthesis system of the continuous type wherein hydrocarbons are cracked in a cracking unit to produce hydrogen, carbon monoxide and some uncracked hydrocarbons, the steps which consist in partially purifying the hydrogen to remove the carbon monoxide therefrom, admixing said partially purified hydrogen together with uncracked hydrocarbons with nitrogen and partially catalyzing said mixture to form ammonia, removing ammonia from said mixture, returning the uncatalyzed gases containing from about 15% to about 30% of hydrocarbons to the hydrocarbon cracking unit and cracking the hydrocarbon content thereof together with fresh hydrocarbons in the presence of nitrogen and hydrogen.

2,166,612
PUMP
Bernard H. Scott, Glendale, Calif., assignor of one-half to Amos W. Elliott, Los Angeles, Calif.
Application July 18, 1936, Serial No. 91,299
5 Claims. (Cl. 103—179)



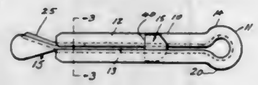
5. In a pump, a tubing string, a sucker rod string within said tubing string, a working barrel carried by said tubing, an upper plunger within said working barrel, a hollow stem connecting said plunger with said sucker rod string, a second working barrel carried by said tubing, a second plunger within said second working barrel, a lower stem connecting said second plunger to said upper plunger, closure means for the area between said hollow stem and said tubing string, a pair of spaced plugs for the area between the lower stem and the tubing string, said plugs being disposed adjacent respective working barrels, means to communicate the area between said closure means and said upper plunger, and the area between said lower plunger and the adjacent plug with the area around the tubing string, and means to communicate said upper plunger with the area in said tubing string around said lower stem and above said plugs.

2,166,613
TRANSFORMER
Albert D. Silva and Benjamin H. Irwin, Columbus, Ind., assignors to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application October 26, 1936, Serial No. 107,502
3 Claims. (Cl. 171—119)



1. A transformer for coupling two stages of a radio receiver, comprising a central column of insulating material, two pairs of sleeves of insulating material slidable on said column, a coil mounted on each of said sleeves and movable therewith, a member of insulating material secured to one end of said column, a head secured to said column between said two pairs of coils, a pair of rods of conducting material secured to said head and extending oppositely therefrom into association respectively with said two pairs of coils, each of said rods being connected to one end of each of the two coils with which it is associated, a second pair of rods extending between said head and member and projecting outwardly beyond the latter, the remaining ends of the two coils between said head and member being connected respectively to said second pair of rods, and a third pair of rods extending between said head and member and projecting axially beyond both, said third pair of rods being connected respectively to the remaining ends of the other two coils.

2,166,614
COTTER PIN
Sven J. Strid, Chicago, Ill., assignor to T & S Corporation, Chicago, Ill., a corporation of Illinois
Application July 18, 1938, Serial No. 219,903
8 Claims. (Cl. 85—8.5)



1. A self-locking cotter pin comprising a pair of substantially parallel arms connected together by a loop portion at their inner ends, one of said arms having a groove on its inner face, a spreader member having a body portion extending between said arms outwardly of said loop portion, said member having a wedge portion on one end and a shoulder on its other end portion extending laterally beyond the periphery of said arms, and said body portion having a rib for engaging in said groove for holding said member parallel with said arms, the interengaging surfaces of said rib and groove remaining parallel in all relative positions of said pin and spreader member.

2,166,615
WITHDRAWN

2,166,616
PAINT BOX PALETTE
Sophie Willis Wallace, Columbia, S. C.
Application June 12, 1937, Serial No. 147,951
5 Claims. (Cl. 41—5)

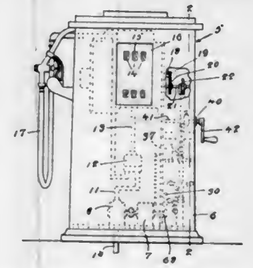


5. An article of manufacture, serving as a palette or a combined paint box and palette for transporting and mixing paint, comprising a tray including a mixing panel; and a plurality of individual, non-communicating, wide mouth receptacles mounted on a portion of said mixing panel, said receptacles projecting above and below the plane of the mixing panel, the bottom of the receptacles providing a substantial base upon which the palette rests and the tops of the receptacles providing upstanding rims against which a brush may be scraped to remove excess paint which will drop back into the receptacle, thereby completely isolating any paint contained therein, and removable caps engaging the tops of said receptacles to make each receptacle air tight when closed and allowing the removal from and replacement of paint in the receptacle when the top is removed.

2,166,617
PHOTOGRAPHIC PROCESSING
John R. Weber, South River, and Virgil B. Sease, New Brunswick, N. J., assignors to Du Pont Film Manufacturing Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 7, 1937, Serial No. 135,579
6 Claims. (Cl. 95—2)

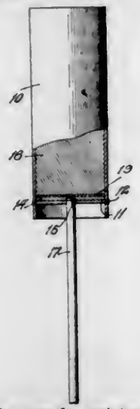
1. A process of treating a photographic element having at least two superimposed layers each containing a water-insoluble silver salt image record, which comprises treating said element with a solution containing from approximately 50% to approximately 90% by weight of a fixing agent selected from the group consisting of water-soluble thiosulfates and water-soluble thiocyanates, until the outer only of said records is removed.

2,166,618
FUEL PUMP
Glenn J. Williams, Morristown, Tenn.
Application May 18, 1938, Serial No. 208,653
2 Claims. (Cl. 221—95)



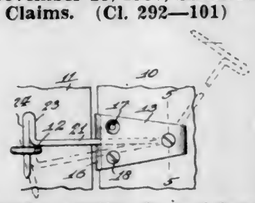
1. The combination of a fuel dispensing pump assembly of that class provided with a housing in which is located a calculating mechanism for indicating the quantity of fuel dispensed, a pump for dispensing said fuel, an electric motor equipped with an armature shaft for operating the pump, a switch operable for controlling the electric circuit to said motor, and a reset shaft for resetting said calculating mechanism; and of a reset device comprising a bar slidably mounted in said housing and provided with a pivoted end section, a drive shaft mounted in said housing and geared to said reset shaft, a ratchet gear mounted on said drive shaft for operating the latter and said reset shaft, a connecting member pivoted to said drive shaft and said section whereby to maintain said section spaced from said gear, a gravity actuated dog pivoted on said member for operating said gear to reset said calculating mechanism, a manually operable shaft extending into said housing, an arm mounted on said last mentioned shaft and connected to said switch, a bell crank mounted in said housing and connected to said last mentioned arm, a spring pressed latch bolt operable by said bell crank for releasing said bar to actuate said reset shaft, and a drive mechanism connected to said armature shaft and engageable by said bar whereby said bar is actuated to a position for operating said reset shaft upon movement of said manually operable shaft to operate said switch.

2,166,619
CONTAINER CONSTRUCTION
Paul K. Becker, Glen Ellyn, Ill., assignor to National Pectin Products Company, Chicago, Ill., a corporation of Illinois
Application May 1, 1937, Serial No. 140,101
3 Claims. (Cl. 220—56)



1. A plunger for push-out type containers comprising a paper disk having an aperture through the central portion thereof, a metal eyelet having a cylindrical shank portion seated in said aperture and an outturned annular flange for engaging one face of the disk, said eyelet having an outturned flange for engaging the other face of the disk, and inturned tabs disposed on opposite sides of said flange for receiving in threaded relation therewith the threaded end of a stick.

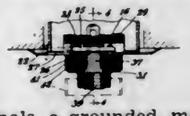
2,166,620
DOOR HOOK MOUNTING
George R. Bellah, West Arcadia, Calif.
Application November 15, 1937, Serial No. 174,516
2 Claims. (Cl. 292—101)



2. A door hook mounting formed from a single piece of material bent double to form a pair of substantially parallel spaced vertically disposed walls, said walls being provided adjacent their connected ends with apertures for the reception of a fastening device, said walls being provided adjacent their free ends with apertures for the reception of a fastening device and said last mentioned apertures being located slightly below the horizontal plane occupied by the first mentioned pair of apertures.

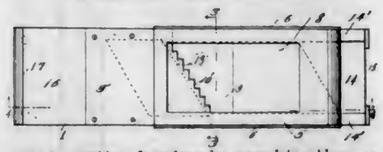
2,166,621
ELECTRIC WIRING CONNECTION
Louis Budnick, New York, N. Y., assignor to Sadye Budnick, New York, N. Y.
Application April 7, 1938, Serial No. 200,621
4 Claims. (Cl. 173—330)

1. In an electric wiring connection, the combination with a grounded, wirable receptacle having a grounded cover, of a terminal member, having differently shaped terminals, removably associable with said covered receptacle, the latter being provided with terminal receiving means, corresponding in shape to that of the terminals, said terminal member having a locking instrumentality, adapted to be grounded, and at least two wire attaching means, electrically connected



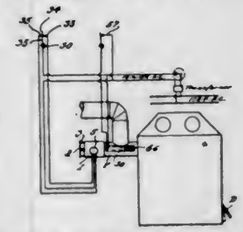
with the terminals, a grounded, movable locking bolt operatively mounted with the cover of the receptacle and adapted to engage the locking instrumentality of said terminal member so that the latter becomes forcibly and immovably united with the receptacle cover, and so that said locking instrumentality becomes securely grounded.

2,166,622
POTATO CUTTER
Lucian S. Callen, Clayton, Mo.
Application May 21, 1938, Serial No. 209,210
1 Claim. (Cl. 146—168)



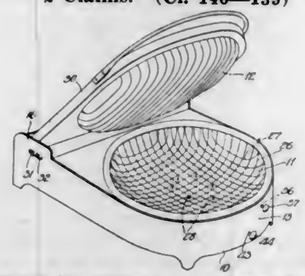
A potato cutter having in combination, a sheet metal plate comprising upper and lower plate portions in successive parallel planes having adjacent edges intermediate its length connected integrally by spaced-apart vertical connecting portions of said plate, said adjacent edges being characterized by having series of separated horizontal cutting edges on said upper plate portion extending at right angles to the length of the plate and arranged staggered across the plate and spaced apart by said respective vertically disposed longitudinal connecting portions of the plate integrally connecting said two successive plate portions and forming vertical cutting edges continuous with, and at right angles with said horizontal cutting edges, and braced by their integral connections with said upper and lower plate portions, thereby defining a zigzag row of angular cutting edges on a series of staggered longitudinal openings without seams, cracks and like crevices in the operative parts thereof.

2,166,623
MULTIPLE DAMPER AND CONTROL
Harry G. Chandler, Lakewood, Ohio
Application November 23, 1934, Serial No. 754,478
6 Claims. (Cl. 236—1)



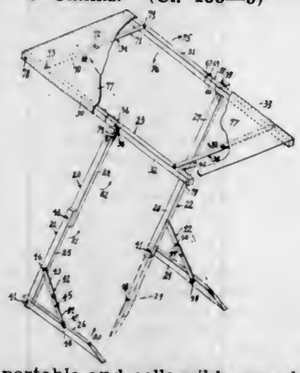
5. A damper mechanism for a furnace having a flue, comprising a damper operable by differentials in pressure of gases in the flue and the atmosphere to admit air to the furnace, thermostatic means responsive to the temperature of the products of combustion passing through said flue to partially open said damper means, means adapted to heat said thermostatic means and thermostatically responsive means responsive to changes in temperature remote from the furnace adapted to control said heating means.

2,166,624
VEGETABLE CUTTER
Bernard Cohn and Leonard A. Swarthe, New York, N. Y.
Application December 15, 1937, Serial No. 179,816
2 Claims. (Cl. 146—139)



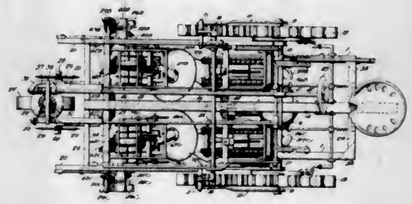
1. A vegetable cutter comprising a base having an opening therein, a bowl rotatably mounted in said opening, a plurality of knives for movement into and out of the bowl, the cutting edge of each knife being curved to conform to the curvature of the cooperating contacting inner surface of the bowl and means for slidably and pivotally mounting said knives, said means comprising a frame for mounting said knives, bearing pins projecting from the knife frame and extending through elongated slots in the base whereby upon pivotal movement of the knife frame, the bearing pins may be moved longitudinally of their respective elongated slots to impart reciprocating movement to the knife frame.

2,166,625
COLLAPSIBLE SUNSHADE
Frank Deak, New York, N. Y.
Application March 28, 1939, Serial No. 264,547
3 Claims. (Cl. 135—5)



1. In a portable and collapsible sun shade device, having two legs and a sun shade frame proper adjustably secured on said legs, a pivot device between said frame and each of said legs, two relatively movable elements in said pivot device, the first element being secured on said frame, the second element being releasably secured to the said leg, yielding means connecting said two elements permitting their relative motion and securing them in their adjusted position, said leg being adapted to be released from said second element, a hinged extension on said second element, a pivot pin on said extension engaging said leg, said leg being adapted to independently rock around said pivot pin and to also rotate with said hinged extension relatively to said second element.

2,166,626
COMBINE BEET HARVESTER
John Devcy, Jr., Monterey Park, Calif., assignor of one-sixth to Harold W. Hunt and one-sixth to Walter West Hunt, both of El Centro, Calif.
Application September 28, 1936, Serial No. 103,047
19 Claims. (Cl. 55—9)

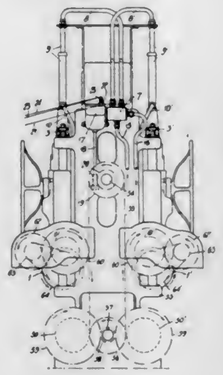


3. In a machine of the character specified, the combination with the main frame, retained cutting disks, the outer edges held at a lower elevation than the inner edges by means of sidewise positioned housings pivotally hung and retained in retaining frames pivotally mounted to main frame; auxiliary frames pivoted to arms secured to main frame; shafts journaled in free ends of auxiliary frames; spaced shear blades secured on said shafts, said shear blades moving the auxiliary frame in a vertical plane as they contact the different heights of beets; adjustable connecting links connecting the housings to the auxiliary frame, moving the housing in a vertical plane but at a slower rate of speed; supplemental digger frames having downward extending arms secured, pivoted to main frame; arms with digger blades secured, which are circuitous in shape, the outer ones being of greater length and height than the inner; auxiliary frames pivotally hung between digger arms and carrying movable endless cleaner chains, the outer ones of greater length than the inner and traveling at a greater rate of speed, means for operating same.

2,166,627
APPARATUS FOR ACTUATING THE PRESSURE ROLLERS OF SAWING MACHINES
Kaleb Emil Evrell, Eskilstuna, Sweden, assignor to Aktiebolaget Bolinder-Munktell, Eskilstuna, Sweden, a corporation of Sweden
Application April 1, 1937, Serial No. 134,416
In Sweden April 9, 1936
13 Claims. (Cl. 143—84)

1. In a sawing machine having feed rollers and at least one front pressure roller and one back pressure roller, said pressure rollers being adapted to be adjusted in vertical direction by means of an auxiliary force, driving means comprising a drive shaft for said feed rollers, a valve device for putting said auxiliary force in and out of action, a cam shaft, a cam on said shaft, a connecting shaft for imparting movement from

said drive shaft to said cam shaft, said cam shaft being in the form of a hollow shaft loosely mounted on said connecting shaft, means for imparting movement from said cam to said valve device, locking means mounted on said cam shaft, and a notched member mounted on said connecting shaft, said locking means being adapted upon displacement in one direction to engage said notched member.



13. In a sawing machine having feed rollers and at least one front pressure roller and one back pressure roller, said pressure rollers being adapted to be adjusted in vertical direction by means of an auxiliary force, driving means comprising a drive shaft for said feed rollers, a valve device for putting said auxiliary force in and out of action, a cam shaft, a cam on said shaft, a connecting shaft for imparting movement from said drive shaft to said cam shaft, means for imparting movement from said cam to said valve device, means for connecting said cam shaft and said connecting shaft, means for disconnecting said last-named shafts after one revolution of said connecting shaft, a pressure medium supply conduit and a pressure medium discharge conduit connected to said valve device, a first cylinder having a pressure-actuated piston for lifting said front pressure roller, a second cylinder having a pressure-actuated piston for lifting said back pressure roller, a first connecting pipe between said valve device and said first cylinder, a second connecting pipe between said valve device and said second cylinder, non-return valves in each of said connecting pipes permitting flow of pressure medium toward said cylinders only, and throttled conduits by-passing said non-return valves.

2,166,628

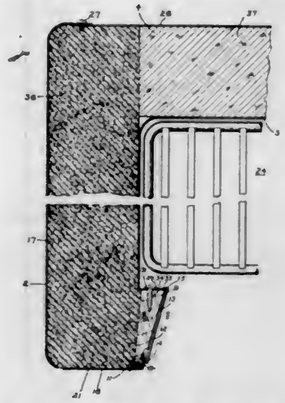
REFRIGERATION APPARATUS

Gregg F. Forsthoefel, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 29, 1933, Serial No. 663,423

3 Claims. (Cl. 220—9)

1. A cabinet construction including inner and outer walls having flanges bounding a door opening, a thermal seal connected to the flange of the inner wall member and including a facing member having a sealed connection with respect to the flange on the inner wall member, said thermal seal having a wedge portion provided thereon for engagement with the flange of the outer wall



member to cause the facing member of the seal to tightly engage said latter flange.

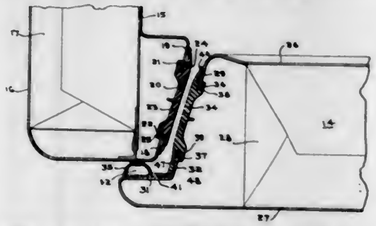
2,166,629

REFRIGERATOR CABINET CONSTRUCTION

Howard D. White, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 6, 1936, Serial No. 94,550

11 Claims. (Cl. 20—35)



1. The combination of a cabinet and door construction embodying members having spaced edges extending toward each other, and a combined breaker strip and door gasket of non-hygroscopic material which comprises a substantially flat wall portion and an integral gasket sealing portion, and laterally extending tongues provided at opposite longitudinal edges of said flat wall portion and forming outwardly opening grooves for receiving said spaced edges, said tongues adapted to engage said edges, said flat portion providing a closure for the space between said edges, and said gasket sealing portion providing a seal between the door and the cabinet at the door opening.

2,166,630

CABINET CONSTRUCTION

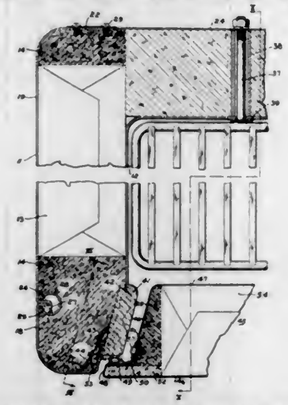
Gregg F. Forsthoefel, Adrian, Mich., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original application January 19, 1933, Serial No. 652,562. Divided and this application May 26, 1939, Serial No. 275,832

8 Claims. (Cl. 220—9)

1. In a cabinet for refrigerators and the like, the combination of inner and outer sheet metal

wall members and a breaker strip connecting adjacent edge portions of said wall members, said breaker strip having a groove receiving the edge portion of one wall member and having



spring means biasing said breaker strip longitudinally of its cross section against said edge portion and transversely against the edge portion of the other wall member.
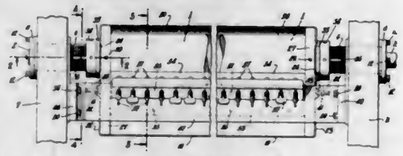
2,166,631

PRINTING PRESS INKING MECHANISM

Frank A. Foster, Maywood, Ill., assignor to The Goss Printing Press Company, Chicago, Ill., a corporation of Illinois

Application August 26, 1937, Serial No. 160,940

19 Claims. (Cl. 101—365)



1. A rotary printing press inking mechanism including in combination a fountain roller journaled in the press frame, an ink fountain cooperating therewith, means mounted on the fountain roller shaft for supporting the ink fountain and means for attaching the fountain to said supporting means and detaching it therefrom whereby it may be removed independently of the fountain roller.

2,166,632

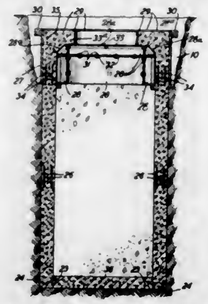
METHOD OF CONSTRUCTING CONCRETE MANHOLES

James M. Hardesty and Stanford M. Sutton, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 5, 1936, Serial No. 114,388

3 Claims. (Cl. 61—40)

1. A method of constructing manholes and similar sub-surface structures of concrete which comprises positioning on top of the ground two sets of forms, one within the other and spaced apart from each other, securing a roof form to the top of said inner form, filling the space between the inner and outer forms with concrete to provide a wall section and covering the roof form with concrete to provide a ceiling for said manhole, removing the forms after the concrete has hardened and then removing the soil from within said wall section and from underneath the edges



thereof to permit the structure to settle down into the soil.

2,166,633

PRIVATE REFRESHMENT BAR

Charles Hardy, Brooklyn, N. Y.

Application March 20, 1937, Serial No. 131,989

15 Claims. (Cl. 312—183)



15. A refreshment bar and ash receiver comprising an enclosed cylindrical cabinet having a side door and an extensive circular table-like top with an ash tray at the center thereof, a tubular bearing depending from said ash tray, an upwardly removable cup-like receptacle of small diameter and substantial depth received axially in said tubular bearing directly beneath the ash tray, a hub freely rotatable about said tubular bearing, and a circular shelf mounted on said hub for rotation about said tubular bearing within the cabinet.

2,166,634

PROCESS FOR MAKING ENGINE CYLINDERS WITH AN INNER LINING

Alfred Lesage, Schweinfurt, Germany

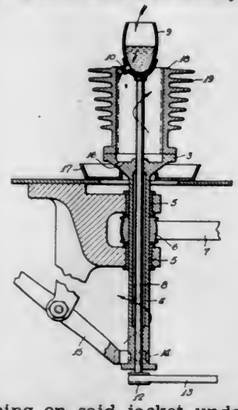
Application February 17, 1938, Serial No. 190,960

In Germany February 15, 1937

1 Claim. (Cl. 22—203)

The method of making an internal combustion cylinder with a light metal jacket having radiating fins and a lining of metal of substantially greater hardness and of substantially higher melting point, which comprises the steps of rotating a vertically disposed jacket, projecting a jet of the molten harder metal within and radially of said cylinder jacket, and against the inner periphery of the latter, effecting relative rotation of said jet and said cylinder, and continuously moving said jet axially of said cylinder, said jet being so fine that the metal therefrom solidifies quickly on the inner surface of the cylinder as a helical strip, and fuses only the inner surface portion of the cylinder jacket on which it is projected, to form a thin intermediate layer alloyed from said light metal and said harder metal, said jacket being rotated at such high speed, that adjacent turns of said helical strip

are levelled off by centrifugal action to form a comparatively smooth substantially uniform con-



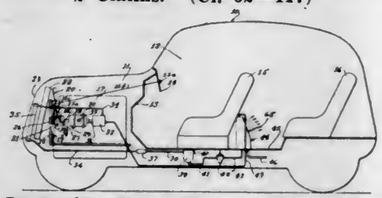
tinuous lining on said jacket under the cooling effected by radiation from said fins.

2,166,635

AUTOMOTIVE AIR CONDITIONING SYSTEM

Albert R. Locke, Oak Park, Ill., assignor to Houde Engineering Corporation, Buffalo, N. Y., a corporation of New York

Application November 1, 1935, Serial No. 47,776
2 Claims. (Cl. 62—117)



1. In combination with an automotive vehicle having a closed passenger compartment, a dashboard therein, a motor compartment having a motor therein and a belt driven fan on said motor, mechanism for operating apparatus for cooling the passenger compartment comprising a shaft rotatably mounted alongside of said motor in said motor compartment, a pulley secured to said shaft for engaging the fan belt of the motor to rotate the shaft, a disconnecting clutch carried by said shaft, a Bowden wire extending from said clutch through the dashboard permitting manual operation of the clutch from the dashboard, a centrifugal throw-out clutch driven by said disconnecting clutch, and a rotary compressor driven within a predetermined speed range by said centrifugal clutch.

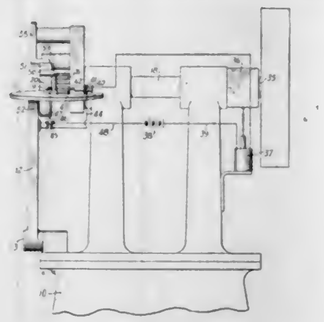
2,166,636

WIRE KNOTTING MACHINE

Samuel S. Marcus, Lewisboro, and Samuel Krakauer, New York, N. Y.

Application October 27, 1937, Serial No. 171,258
3 Claims. (Cl. 140—101)

1. In a wire wrap knotting machine of the type which includes a rotary device for wrapping the terminal of the wire about an adjacent portion thereof, a movable table bed having gage means thereon against which the wire is impinged when located in proper position for wrapping a predetermined length of the free end, drive means for actuating the table bed and wrapping device, a clutch for connecting said drive means to actuate the table bed and wrapping device; an electrical circuit including an electrical device for rendering said clutch active, and a normally open switch



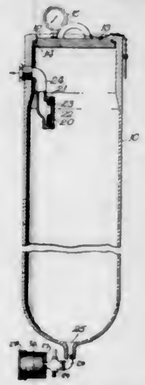
adapted to be closed by the impingement of the end of the terminal of the wire thereagainst so as to effect the wrapping of a uniform predetermined length of the terminal about the adjacent portion of the wire.

2,166,637

CARBON DIOXIDE CONVERTER

Roy E. McIlrath, Wilmette, Ill.

Application November 1, 1937, Serial No. 172,133
2 Claims. (Cl. 62—91.5)



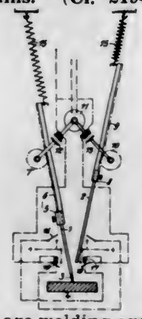
1. In an apparatus for converting solid carbon dioxide into gaseous carbon dioxide the combination of a container adapted to receive a quantity of solid carbon dioxide and having an opening in the upper end thereof, a removable closure means for hermetically sealing said opening, a conduit for conveying gaseous carbon dioxide from said container, and means including a removable pad of porous filter material disposed in said container surrounded by gas of equalized pressure and in a position readily visible through said opening between the interior of said container and the terminus of said outlet conduit for trapping lubricating oil or the like commingled with the gaseous carbon dioxide, whereby the carbon dioxide converted from solid to gaseous form and discharged from the container is freed of oil or other adulterants and in suitable condition for beverage purposes.

2,166,638

ARC WELDING APPARATUS WITH COATED ELECTRODES

Ludwig Müller, Finsterwalde, Germany, assignor to the firm Kjellberg Elektroden & Maschinen G. m. b. H., Finsterwalde, Germany, a company of Germany

Application October 27, 1937, Serial No. 171,185
In the Netherlands August 27, 1937
3 Claims. (Cl. 219—8)



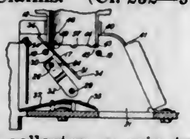
1. An automatic arc welding apparatus for continuous welding with a plurality of electrodes comprising: a pair of electrode holders adapted to be alternately moved toward and away from the work to be welded, a motor, a pair of coupling means, one of said coupling means being arranged between said motor and one of said electrode holders, the other coupling means being arranged between said motor and the other electrode holder, retracting means coupled with said electrode holders, and automatic control means for alternate engagement and disengagement of said coupling means, said motor being adapted to move said electrode holders toward the work at a predetermined advancing speed when the respective coupling means is engaged, and said retracting means being adapted to move the electrode holders away from the work at a higher speed than said advancing speed when the respective coupling means is disengaged.

2,166,639

COIN COLLECTOR APPARATUS

Robert L. Peek, Jr., Townley, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 14, 1938, Serial No. 207,908
19 Claims. (Cl. 232—57.5)



1. In a coin collector, a coin trap comprising a plate, supports for said plate spaced apart a distance slightly less than the length of said plate, a toggle joint having one arm fastened to said plate and having a second arm rotatable about a fixed pivot, and means for actuating the hinge of said toggle joint.

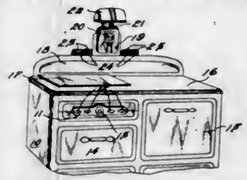
2,166,640

CABINET

Herbert E. Mills, Detroit, Mich., assignor to Borg-Warner Corporation, a corporation of Illinois

Application July 17, 1936, Serial No. 91,050
8 Claims. (Cl. 312—1)

4. In combination with a cabinet, a pair of accessory supporting members associated with the rear of said cabinet, one of said members having a lower portion secured to said cabinet by removable fastening means, the other of said members being concealed behind and loosely in-



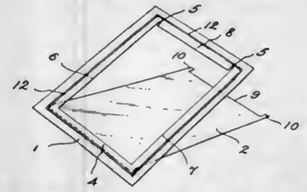
terfitted with said cabinet, said members being readily dismountable from said cabinet and each other without affecting the structural strength of the cabinet.

2,166,641

MOUNTING FRAME FOR PHOTOGRAPHS AND THE LIKE

Guido Perera and Robert C. Myles, Jr., New York, N. Y.

Application September 14, 1938, Serial No. 229,844
5 Claims. (Cl. 40—158)



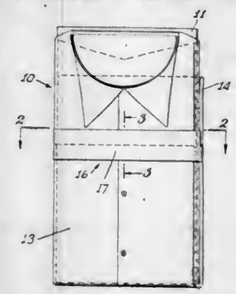
1. A backless mounting frame for photographs and the like which comprises in combination a frame member having an opening therein, a pair of short incisions in said frame member forming extensions of two inner lateral edges thereof, and a transparent and flexible cover plate having larger dimensions than said opening underneath said frame member, said cover plate having one of its ends secured to the bottom surface of said frame member and having its opposite end extending through said incisions above said frame member forming a port for the introduction of a photograph underneath said cover plate.

2,166,642

FOLDED SHIRT AND BAND HOLDER THEREFOR TO ELIMINATE PINS

Louis Rechtschaffen, New York, N. Y.

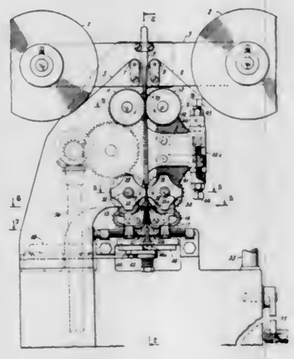
Application December 29, 1937, Serial No. 182,288
4 Claims. (Cl. 223—71)



1. A shirt band comprising a strip of paper, the ends of said strip being slit inwardly longi-

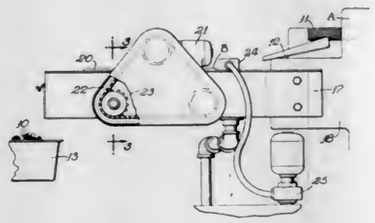
tudinally, to form a pair of free end portions at each end of the strip, and means to paste one pair of said free end portions to the other pair.

2,166,643
FLUID PACKAGE FORMING SYSTEM
Leroy L. Salfisberg, South Orange, N. J., assignor to Ivers-Lee Company, Newark, N. J., a corporation of Delaware
Application February 10, 1938, Serial No. 189,733
2 Claims. (Cl. 93—3)



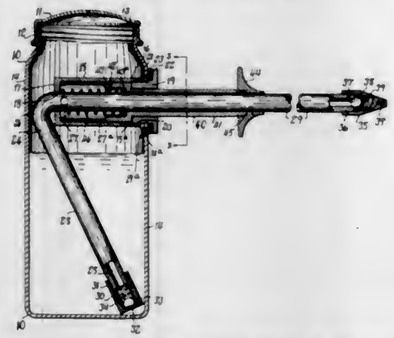
1. A packaging machine including means for forming and feeding downwardly a tube having compressible walls, means for sealing together the walls of the tube at a given transverse plane thereof, and endless belts each with one reach at and contacting with one of opposite sides of said tube below said plane, means for driving said belts in the direction of and at the same linear speed as the feed of said tube, and means for moving said reaches of the belts toward and from each other to vary the volume of the tube.

2,166,644
METHOD AND APPARATUS FOR CLEANING METAL PARTS
Carl E. Severin, Rockford, Ill., assignor of one-half to Frithjoff Jensen, Rockford, Ill.
Application February 16, 1938, Serial No. 190,695
10 Claims. (Cl. 80—1)



1. The combination with a mechanism for cold working small metal parts, of a cleaning apparatus utilizing the heat generated in the parts by the cold working thereof in removing a cleaning liquid therefrom, said apparatus including means for flowing a cleaning liquid on the hot parts as they emerge from said mechanism, and means for advancing the hot parts through a drying zone and for simultaneously shaking and turning the parts to aid in freeing them of excess cleaning liquid.

2,166,645
PUMP-TYPE OILER
Richard W. Shoemaker, Woodbury, Conn., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn., a corporation
Application July 5, 1938, Serial No. 217,433
12 Claims. (Cl. 221—51)

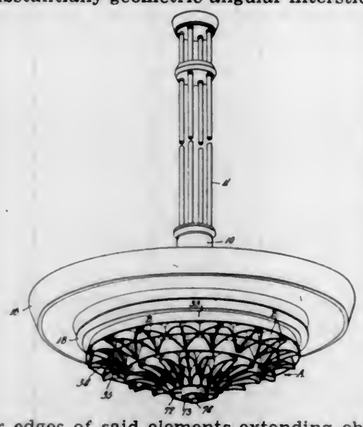


1. A pump-type oiler, comprising: a vertically-elongated oil-container; a pump-cylinder arranged within the said container on a substantially-horizontal axis and having an annular inner-end wall; a substantially-continuous oil-conveying tube extending from within the said oil-container axially through the said cylinder and a wall of the said container to project outwardly beyond the latter, the said oil-conveying tube being mounted within and in fixed relation to the said annular inner-end wall of the cylinder and provided with an opening into the annular pump-chamber formed between the said tube and the inner cylindrical wall of the said cylinder, the said oil-conveying tube having a rectilinear oil-spout forming-portion extending outwardly through the wall of the said oil-container from the said opening into the said annular space and a suction-pipe portion extending downwardly within the said oil-container from the said opening; a tubular piston and shank therefor reciprocably mounted upon the said rectilinear oil-spout forming-portion to operate the piston within the said annular pump-chamber, the said shank being provided without the said container with a finger-grip for imparting an inward movement to the said piston; a return-spring interacting between said piston and an end-wall of said pump-chamber; an inwardly-opening check-valve at the foot of the said suction-pipe portion of the oil-conveying tube; and an outwardly-opening check-valve at the outer end of the said rectilinear oil-spout forming-portion thereof.

2,166,646
LIGHTING FIXTURE
Edward F. Sibbert, Brooklyn, N. Y., assignor to S. H. Kress and Company, New York, N. Y., a corporation of New York
Application June 22, 1937, Serial No. 149,579
8 Claims. (Cl. 240—78)

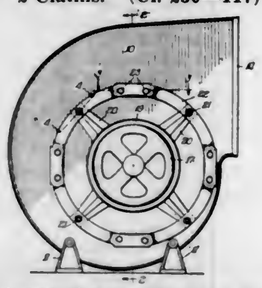
1. As an article of manufacture, a grille unit adapted to be mounted on a lighting fixture, and comprising a series of self-contained circular sections arranged in stepped formation, and each

having a series of baffle elements forming a series of substantially geometric angular interstices, the



lower edges of said elements extending obliquely with respect to the axis of the grille unit.

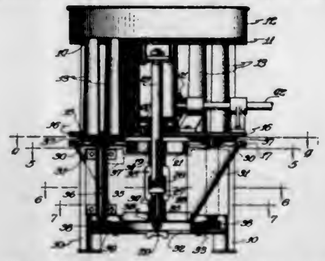
2,166,647
BLOWER
Arthur G. Sutcliffe, Chicago, Ill., assignor, by mesne assignments, to Ilg Electric Ventilating Co., Chicago, Ill., a corporation of Delaware
Application February 20, 1937, Serial No. 126,741
2 Claims. (Cl. 230—117)



1. In a blower, the combination with the blower casing, a motor, and a blower wheel in said casing directly mounted on the motor shaft, of means for mounting said motor on a side wall of said casing comprising a motor-supporting member, and means attaching said member to said side wall, said attaching means comprising a plurality of pairs of opposed brackets secured respectively to said side wall and motor-supporting member, the brackets of each pair being formed with interengaging parts preventing their separation from each other, and a body of rubber between and connecting said brackets and in which said interengaging parts are embedded.

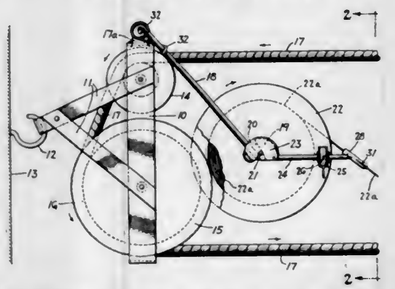
2,166,648
SLICING MACHINE
John Swofford, Eugene, Oreg., assignor to Eugene Fruit Growers Association, Eugene, Oreg., a corporation of Oregon
Application December 9, 1937, Serial No. 178,886
1 Claim. (Cl. 146—124)

A machine of the class described comprising a vertical drive shaft; a revolving table splined to said shaft, said table being supported on a depending frame, having a hub freely slidable on the lower portion of said shaft, there being a transverse slot in said shaft and a cross bar on said hub extending through said slot and freely adjustable therein; an adjusting screw mounted in the lower end of said shaft and extending upwardly therein to contact with and support said cross bar for vertical adjustments of said table; a feed hopper positioned above said table; a plurality of vertical feed tubes of relatively small sizes leading from said hopper and terminating at their lower ends a short distance above said table, there being a slice open-



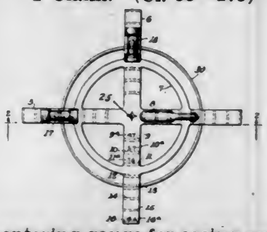
ing in said table positioned to pass under said tubes; a circular knife revolving with and vertically adjustable with respect to said table and positioned above said slice opening; a vertical drive shaft for said knife mounted on the supporting frame of said table; a driving pinion at the lower end of said shaft; an external annular gear meshing with said pinion; and a chute on said table frame under said slice opening and adapted and arranged to direct slices falling therethrough inwardly to pass through said annular gear.

2,166,649
CLOTHESLINE COVERING DEVICE
Julius Tarlazzi, North Bergen, N. J.
Application September 15, 1938, Serial No. 230,061
7 Claims. (Cl. 211—119)



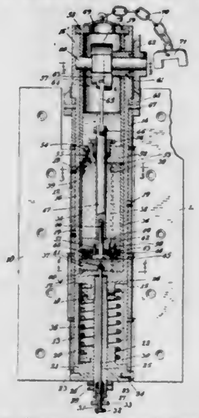
1. In a line covering device, a frame, pulleys rotatably mounted one above the other in said frame over which an endless line passes to provide upper and lower leads, a bracket pivotally mounted on said frame, a reel of tape rotatably mounted in said bracket adapted to frictionally engage the circumference of the flanges of the lower pulley whereby rotation of the pulley by movement of the line in one direction will wind the tape upon said reel and rotation of the pulley in the opposite direction will unwind said tape from the reel, tape guiding means mounted on said bracket through which said tape is passed and means for fastening said tape to the lower lead of said line, said line being covered with tape by movement of the same in a direction to unwind said tape from said reel and uncovered by movement of the line in a direction to wind said tape on said reel.

2,166,650
SELF-CENTERING GAUGE FOR CASING AND DRILL PIPES
Rex Townsend, Greenwich, Conn.
Application September 28, 1937, Serial No. 166,050
1 Claim. (Cl. 33—178)



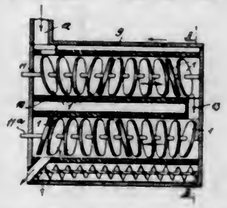
A self-centering gauge for casing and drill pipe, comprising a light but rigid frame engageable over the end of pipe or casing, calipering fingers fixed at different measured distances apart for different sizes of pipe and casing projecting angularly from the back of said frame for automatically centering the frame over the ends of different size pipe or casing, means at the face of the frame for showing the size pipe with which the calipering and centering fingers are engaged, a center marking on the face of the frame, and handle means clear of said center marking and by which said frame may be quickly centered and held in position over different size pipe and casing.

2,166,651
DOOR CLOSER
William Wennmann, New York, N. Y.
Application April 28, 1938, Serial No. 204,788
8 Claims. (Cl. 16—54)



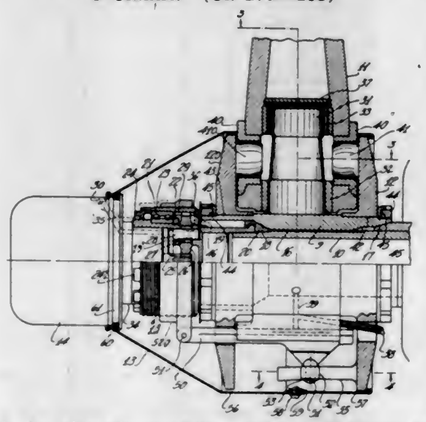
1. In a door closer, the combination with a door hinge having leaves provided with ears, of a chamber immovably associated with the ear of one hinge leaf, a hydraulic piston mechanism within said chamber, operating means for said mechanism, a portion of which extends outwards from the chamber, means immovably associated with the ear of the other leaf and in operative engagement with said extending portion of said operating means, a torsion spring associated with one of its ends to said chamber, the other end being adapted to be adjustable relative to said other leaf and engaging the latter, for the purpose of normally urging the leaves together, said piston mechanism being constructed and arranged to first retard the action of the spring and to finally release it to complete its full action, an auxiliary reservoir for liquid arranged within the chamber, a closure for said reservoir and means associated with the closure for holding the mechanism against operation at any desired position.

2,166,652
MACHINE FOR WORKING OR DISINTEGRATING MATERIALS OF ALL KINDS, ESPECIALLY FOR HUSKING GRAINS
Ludwig Zinsser, Murr, Oberamt Marbach, Germany
Application November 28, 1936, Serial No. 113,213
In Germany November 29, 1935
1 Claim. (Cl. 83—30)



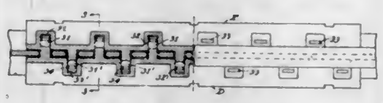
In a machine for working and disintegrating materials of all kinds, especially for husking grain, a housing, a substantially cylindrical casing, in the housing, a rotary shaft journaled centrally and longitudinally of the casing, material feeding means at one end of the casing, material discharge means at the opposite end of the casing and located at a point below the axis of said rotary shaft, and spaced husking disks on said shaft cooperating with the walls of the casing and slightly spaced therefrom, all disks being at an equal acute angle with respect to the shaft and each disk secured to the shaft in such manner that the radial vector which measures one side of the included angle between the disk and shaft is successively rotated through an angle with respect to the preceding disk, all of said latter angles being substantially equal.

2,166,653
PROPELLER
Ellsworth W. Austin, Cedar Rapids, Iowa
Application February 10, 1936, Serial No. 63,053
8 Claims. (Cl. 170—163)



1. An aircraft propeller comprising a hub and blades arranged for pitch adjustment, annular members mounted on the hub with the blades interposed therebetween, connections for the blades that simultaneous adjusting action may be obtained, wedge arm extensions of said annular members, said extensions being positioned in opposition one to another for wedging action, and a means for rotating the annular members in opposite direction comprising a pair of rollers mounted on the hub to coact with the wedge arm extensions to cause angular movement thereof and a power means mounted on the hub and connections from the power means to move the rollers axially with respect to the hub.

2,166,654
SAFETY SELF-LOCKING RAIL JOINT SYSTEM
Amel B. Broluska, Detroit, Mich.
Application January 28, 1937, Serial No. 122,715
8 Claims. (Cl. 238—250)



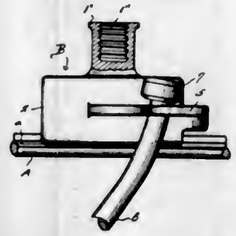
1. In a rail joint, the combination, with a pair of rail ends to be connected, of a pair of fish plates overlapping said rail ends and adapted to fit against their webs, of means for connecting said rail ends and said plates, said means comprising studs formed integral with one of said plates and having their free ends passing through slots in said webs and into aligned openings in the other of said plates, there being aligned grooves in the outer peripheries of said studs and the inner peripheries of said openings adapted to receive a mass of molten metal for securing the parts together.

2,166,655
RAIL BOND
Homer P. Chandler, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application January 4, 1936, Serial No. 57,568
Renewed May 5, 1939
20 Claims. (Cl. 173—280)



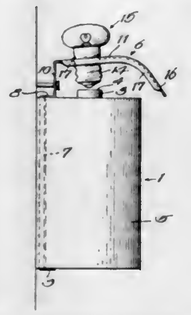
1. A rail bond comprising a terminal connected to a cable, said terminal comprising a metal body having a passage extending part way therethrough receiving the end of the cable, a projecting portion to be inserted in an opening in a rail, a second passage extending coaxially through the projecting portion substantially at right angles to the axis of the first passage and intersecting the first passage within the terminal and a covering of metal over the intersection of the passages and cable, said terminal further provided with a separately formed plug of metal having a portion positioned in the second passage with its end engaging with the cable end in the first passage and an exposed portion projecting from the end of the projecting portion on the terminal and of the same diameter, the projecting portion of the terminal and plug being adapted to be expanded in the opening in the rail when force is applied to the aforesaid covering of the terminal body.

2,166,656
TROLLEY WIRE TAP WITH ANCHOR CLAMP
Virgil A. Curry, Dehue, W. Va.
Application March 26, 1938, Serial No. 198,207
11 Claims. (Cl. 191—12)



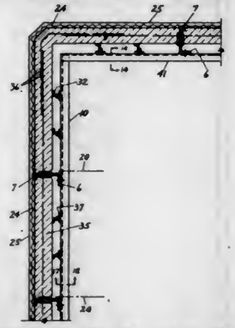
1. Means for electrically connecting a cable to a trolley wire comprising a supporting member for the trolley wire, a hook carried by the supporting member and provided with a slot open above, below and at one end, a headed shank connected with the cable and having its headed end mounted in the slot and the head supported by the hook, the head comprising a knob like member positioned adjacent an end of the shank and supporting the shank in freely movable relation to the hook.

2,166,657
FLASHLIGHT DEVICE
Harry C. Evelyn, Chicago, Ill.
Application April 22, 1938, Serial No. 203,582
3 Claims. (Cl. 240—10.61)



1. In a device of the class described, the combination with an electric battery including a cylindrical battery receptacle forming a battery terminal with the other terminal of the battery arranged centrally at the top end of the receptacle and a tubular casing within which the receptacle is snugly confined, of a bracket element formed of a single piece of resilient strip metal having a part shaped to be confined between the receptacle and the casing with other parts formed angularly from said part and arranged to engage the top and bottom ends of the receptacle respectively for holding the element in position on the receptacle, and the element having another part continuing from one of its angular parts in spaced relation over the top end terminal of the battery arranged to be flexed theretoward with a formation therein to support an electric lamp so that one of its terminals will engage the end terminal of the battery when said part is flexed toward said terminal.

2,166,658
CONSTRUCTION SYSTEM
Harold P. Ford, Seattle, Wash.
Application September 21, 1936, Serial No. 101,739
7 Claims. (Cl. 189—1)

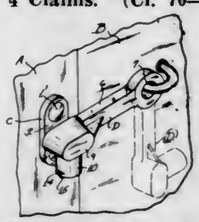


2. In a structure of the class described, the combination with columns of open web metal wall girders attached thereto at floor levels, non-load bearing vertically extending wall furring members attached to the wall girders, and open web metal joists supported by the wall girders.

2,166,659
PROCESS FOR THE TREATMENT OF BERYLLIUM ORES
Daniel Gardner, Rueil-Malmaison, France, assignor to Maatschappij voor Thermo-Chemie N. V., Arnheim, Netherlands, a company of the Netherlands
No Drawing. Application March 7, 1938, Serial No. 194,378
12 Claims. (Cl. 75—84)

1. In a process for treating beryllium ore for the production of beryllium therefrom, sulphidising the ore in the presence of a substantial proportion of carbonaceous material at a temperature ranging from about 1800° C. to about 2000 C. whereby volatilization of the beryllium sulphide is substantially prevented and for a length of time sufficient to convert the greater part of the beryllium in the ore into beryllium sulphide, treating the reaction mass with an excess of a diluted strong mineral acid, filtering the mass, isolating from the filtrate thus obtained the beryllium compound in the form of oxide, converting the beryllium oxide thus isolated into beryllium sulphide, and reducing the beryllium sulphide thus obtained to beryllium metal.

2,166,660
LOCK STRUCTURE
Charles F. Handshy, St. Louis, Mo., and Willard I. Conant, Decatur, Ill.
Application June 29, 1938, Serial No. 216,440
4 Claims. (Cl. 70—9)



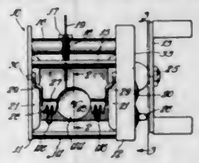
1. A hasp-lock comprising, in combination, a fixed keeper having an outwardly projecting lug having a recess and a communicating slot opening to a margin of the lug, a swingable member, a housing on the free end of said member for embracing the lug, and a lock structure associated with the housing, said structure including a rotatable bolt sized for endwise movement through said slot for engagement with the lug at said recess.

2,166,661
INSECTICIDES AND METHODS OF MAKING SAME
Carl P. Hopkins, Grand Junction, Colo., assignor to The Latimer-Goodwin Chemical Company, Grand Junction, Colo., a corporation of Colorado
No Drawing. Application June 12, 1937, Serial No. 147,991
8 Claims. (Cl. 167—33)

2. An insecticide, comprising a reaction product of olefinic and pyridinic compounds and sulphur.

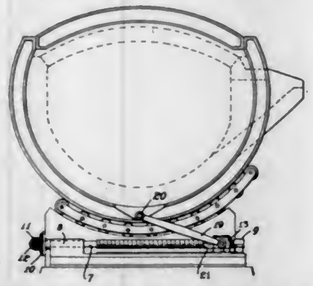
3. An insecticide, comprising a reaction product of a pyridinic compound and sulphur with a reactive member from the group consisting of petroleum, shale oils and tar distillates containing reactive unsaturated hydrocarbons.

2,166,662
ANTIBACKLASH DEVICE
Peter G. Jacobson, Chicago, Ill.
Application February 21, 1938, Serial No. 191,607
5 Claims. (Cl. 242—84.5)



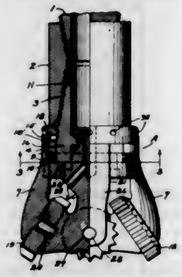
1. In a device of the class described, the combination of a reel, a line wound thereon, a frame on which the reel rotates, and means carried by the frame for hooking a reverse loop in the line for positively stopping rotation of the reel in the direction of outward movement of the line on the reel.

2,166,663
OPERATING MECHANISM FOR TILTING RECEPTACLES
Harry L. McFeaters, New Castle, Pa., assignor to Pennsylvania Engineering Works, a corporation of Pennsylvania
Application October 27, 1938, Serial No. 237,263
4 Claims. (Cl. 266—39)



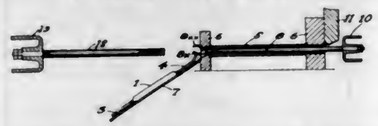
1. In a mechanism for operating tiltable receptacles, a power operated screw shaft, a crosshead mounted for reciprocation parallel to the longitudinal axis of said shaft, a main operating nut meshing with said screw shaft and rigidly secured to said crosshead, means for operatively connecting the crosshead to the tiltable vessel to be operated and an emergency nut also meshing with said screw shaft and being loosely carried by said crosshead whereby it idles during normal operation of the main nut and comes into immediate operation as an operative part of the mechanism upon failure of the main nut.

2,166,664
DRILL BIT
George A. Mead, Mansfield, Ohio, assignor to The Ohio Brass Company, Mansfield, Ohio, a corporation of New Jersey
Application May 27, 1938, Serial No. 210,351
9 Claims. (Cl. 255—71)



1. A drill bit comprising a body having a plurality of downwardly projecting arms, each arm being detachably secured to the body and carrying cutters at the lower ends thereof, interlocking shoulders on the arms and body and a collar mounted on the body to engage and interlock with the ends of the arms to prevent disengagement of the arms relative to the body, the body and the collar provided with cooperating left-hand threaded cylindrical portions whereby the collar may be moved into engagement with the arms by rotation of the collar in an anticlockwise direction relative to the body and a threaded projecting tapered stem on the body to receive a drive pipe whereby the bit is rotated.

2,166,665
APPARATUS FOR MANUFACTURING COMPRESSED SANITARY PADS
Laurie F. Parker, Noroton, Conn.
Application July 16, 1938, Serial No. 219,531
9 Claims. (Cl. 18—16)



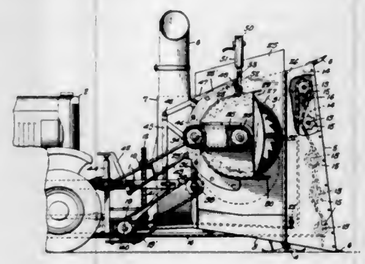
1. In apparatus for manufacturing compressed sanitary pads, a compression cylinder, pad engaging means adapted to enter the cylinder at one end for projection at the opposite end thereof, means for reciprocating said pad engaging means, a piston and means for reciprocating the same within the cylinder, said means acting to withdraw the piston from the cylinder, and means effective to close the cylinder at the end thereof opposite from the end entered by the piston, preliminary to movement of the piston into the cylinder.

2,166,666
SHEET METAL SNAP HOOK
Andrew A. Rolan, Detroit, Mich.
Application September 19, 1938, Serial No. 230,689
4 Claims. (Cl. 24—234)



4. A latch hook comprising a body member having an edge portion and integral parallel side members, a pin connected between the side members, a hook member having a vertical slot and receiving the pin therethrough to permit vertical and lateral movement of the hook between the side members, a tongue on the body member and extended across the side members rearwardly of the hook, spring means urging said hook into abutting relation with the tongue and said hook having a downwardly open-ended slot complemental to said tongue, when said hook is moved in a vertical downward direction.

2,166,667
ROTARY SNOW PLOW
Bert R. Watkins, Austin, Minn.
Application March 28, 1938, Serial No. 198,518
18 Claims. (Cl. 37—43)

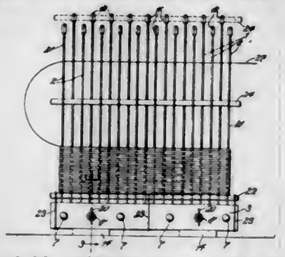


1. A snow plow comprising a housing having a mouth in the front of said housing, a suction fan located in the rear portion of the housing, an exhaust pipe for said fan carried by the housing and extending laterally thereof, rotary cutters mounted for operation in the housing adjacent the mouth, a rotary cutter slidably and pivotally mounted on the said housing laterally of the said first-mentioned cutters for cutting and feeding snow into said housing and means for driving said cutters and the fan.

2,166,668
WEAVING
Georgia E. Webster and Richard H. Webster, Richmond Heights, Mo., assignors of two-thirds to Charles G. Perry, St. Louis, Mo.
Application October 14, 1937, Serial No. 168,872
15 Claims. (Cl. 139—33)

7. Weaving apparatus comprising, a support, a series of resilient warp rods, said warp rods being supported in cantilever relation by said support

and having their unsupported ends free for movement relative to each other, all said rods being



freely bendable relative to each other, and some of said rods being longer than others.

2,166,669

ROAD MARKER

Francis J. Farrell, Philadelphia, Pa., assignor to Farrell Safety Road Marker, Inc., Conshohocken, Pa.

Application July 30, 1937, Serial No. 156,479
3 Claims. (Cl. 94—1.5)
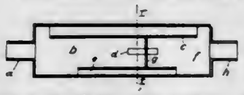


1. A road marker comprising a metallic backing plate having one surface thereof substantially covered by a facing layer of rubber composition, integral locking projections extending from one face of said plate and imbedded in said facing layer, integral locking projections extending from the other face of said plate for imbedded engagement with a road surface, each of said projections being distorted to provide a plurality of locking points.

2,166,670

SILENCER

Herbert Martin, Esslingen-on-the-Neckar, Germany, assignor to J. Eberspacher, Esslingen-on-the-Neckar, Germany

Application September 13, 1938, Serial No. 229,733
In Germany May 14, 1937
1 Claim. (Cl. 181—56)



A silencer, especially for internal combustion engines, comprising several vessels arranged in series, a plurality of pipes connecting at any time two successive vessels with one another, the pipes having different lengths and cross-sections, the ratio of the free cross-sectional area to the length being the same for all the pipes, and the inlet and outlet openings of the connecting pipes being located in different planes perpendicular to the direction of the sound transmission.

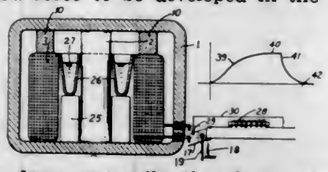
2,166,671

METHOD AND MEANS FOR TREATING ELECTRICALLY CONDUCTING LIQUIDS

Lev A. Trofimov, Cleveland, Ohio, assignor, by mesne assignments, to Product Development and Engineering Corporation, Cleveland, Ohio, a corporation of Ohio

Application January 8, 1937, Serial No. 119,618
4 Claims. (Cl. 75—93)

1. The method of purifying molten metal which includes disposing the metal in annular form in a supporting vessel, repeatedly building up a magnetic field within and embraced by the annular metal to develop current in the metal to effect a reaction on the field in the direction to exert an upward repulsion force on the metal and causing the field to abruptly cease to develop current in the annular metal to thereby effect a reaction on the field in the direction to cause downward force to be developed in the molten



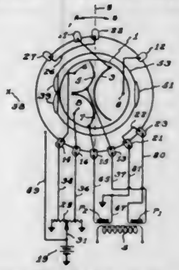
mass to force upwardly therefrom gases and other impurities, and while said action is repeatedly going on, applying heat from an external source to the metal to maintain it in molten condition the rate of decrease of the field and the downward force on the metal effected thereby being greater than the rate of building up of the flux and the upward force on the metal respectively.

2,166,672

PHOTOACOUSTICAL APPARATUS

Judd O. Baker, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 29, 1936, Serial No. 66,337
8 Claims. (Cl. 179—100.3)



1. In photo-acoustical apparatus, the combination of an amplifier adapted for either standard operation or for push-pull operation, and a photoelectric device associated therewith, said photoelectric device having a plurality of sets of cooperative electrodes therein of which certain sets are arranged to act jointly in pairs for push-pull operation and of which another set is arranged to act independently of said certain sets for standard operation, and means whereby said photoelectric device may be coupled to said amplifier to provide either a standard reproducing system or a push-pull reproducing system at will.

2,166,673

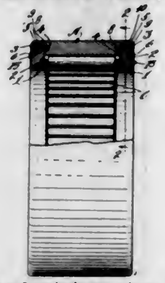
ROLLER RETAINER RING AND RACE MEMBER ASSEMBLY FOR ROLLER BEARINGS

Victor L. Barr, Philadelphia, Pa., assignor to Roller Bearing Company of America, Trenton, N. J., a corporation of New Jersey

Application May 21, 1938, Serial No. 209,207
7 Claims. (Cl. 308—213)

1. A roller bearing comprising a race ring, rollers cooperating with said race ring, and a retainer ring for holding said rollers against displacement with respect to said race ring, one of said race ring and retainer ring having a circumferential

rabbet in one end to receive the other, said rabbet having an annular surface concentric with the race ring and a base surface the plane of which is perpendicular to the axis of the bearing, a portion of said annular surface being in contact with the circumferential surface of the other of



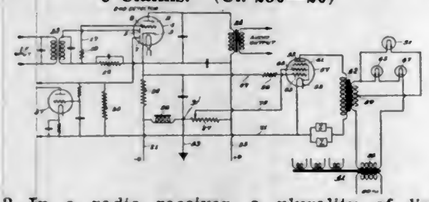
said race ring and retainer ring, there being a reentrant groove in said annular surface of the rabbet and the other of said race ring and retainer ring having a circumferential groove registering with a portion of said reentrant groove, and metal molded in and filling said grooves.

2,166,674

INDICATING DEVICE

Loy E. Barton, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 7, 1932, Serial No. 646,074
9 Claims. (Cl. 250—20)



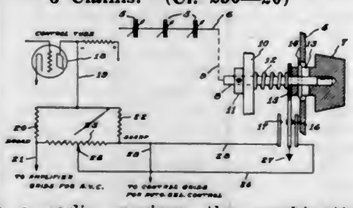
2. In a radio receiver, a plurality of light sources, means capable of supplying alternating potentials to said sources, means including a transformer responsive to the condition of sensitivity of said receiver for determining which of said sources receives potential from said energy supply.

2,166,675

TUNING CONTROL SYSTEM FOR HIGH FIDELITY RECEIVERS

George L. Beers, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application June 27, 1936, Serial No. 87,619
6 Claims. (Cl. 250—20)



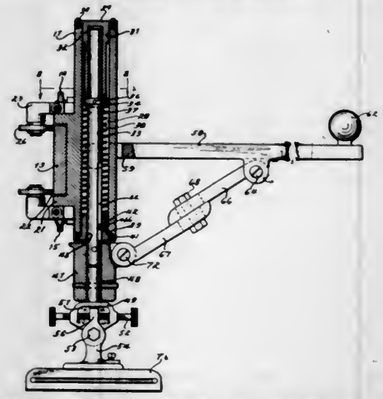
2. In a radio receiver, the combination of manually operable tuning control means, a selectivity and fidelity control network including a circuit providing connections therewith for securing maximum selectivity and alternatively a manually adjusted predetermined degree of fidelity, means controllable by said tuning control means for selecting said first named connection whereby the tuning operation of the receiver may be made selective, and for effecting the other of said connections to restore the predetermined degree of fidelity when a tuned-in condition has been obtained.

2,166,676

ABRADING DEVICE

Alfred V. Breed, Jamestown, N. Y., assignor to Curtis Machine Corporation, Jamestown, N. Y., a corporation of New York

Application July 30, 1937, Serial No. 156,523
6 Claims. (Cl. 51—141)



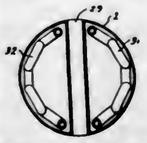
3. A polishing head for an abrading device having a housing open at opposite ends, a shaft projecting into said housing, a cap closing one end of said housing, means adjacent said cap adapted to mount one end of said shaft, a further cap closing the other end of said housing, bearing means in said further cap mounting said shaft, spring means in said housing engaged with and normally supporting said shaft, a polishing member joined to one end of said shaft, and means operable to axially move said shaft in opposition to said spring means whereby to move said polishing member into position of use.

2,166,677

REFRIGERATING APPARATUS

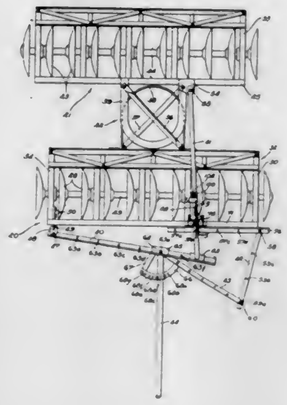
John A. Conrady, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio

Application March 10, 1937, Serial No. 130,137
5 Claims. (Cl. 62—118)



1. In refrigerating apparatus of the intermittent absorption type having a refrigerant condenser and cooling means therefor, a generator absorber having water circulation coils therein, a supply of cooling water arranged to be cooled by the cooling means for the condenser, and means for intermittently inducing thermo syphon circulation of water from said cooling water supply through said water circulating coils.

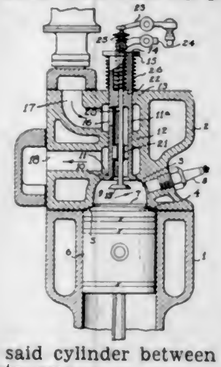
2,166,678
DISK HARROW
Louis Brenneis, Carlos L. Najera, and John F. Schuck, Oxnard, Calif., assignors, by mesne assignments, to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application May 25, 1937, Serial No. 144,650
14 Claims. (Cl. 55—83)



1. In a ground-working tool, the combination of: a front tool-supporting member; a rear tool-supporting member; means pivoting said members for relative movement between parallel and angled positions; draft means including draw bars connected to opposite sides of said front tool-supporting member, a link interconnecting said draw bars, a pull bar having connection with said link and adapted for connection to a tractive vehicle; a draft connection from said draft means to a point on said rear member spaced from the point at which force is exerted upon said rear member by said pivoting means; said connection between said link and pull bar securing said link and pull bar together to transmit forward pull of said tractive vehicle to said draw bars and to said draft connection while said front and rear members occupy relatively angled positions, and to transmit lateral pull of said tractive vehicle to said link, whereby when the tractive vehicle is turned around the diverging ends of said members, said rear member is urged into a position parallel to said front member, and releasable means for retaining said members in parallel position.

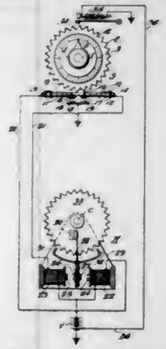
2,166,679
COMBUSTION CHAMBER FOR AN INTERNAL COMBUSTION ENGINE
James P. Burke, Knoxville, Tenn., assignor of one-half to F. L. McLaughlin, Detroit, Mich.
Application March 8, 1938, Serial No. 194,638
9 Claims. (Cl. 123—191)

1. A combustion chamber for an engine cylinder having a piston therein comprising a lower portion of frusto conical shape in any vertical section taken transversely of the wrist pin of the piston, substantially vertical sidewalls arising from the small base of the frusto cone and terminating in a top portion curved in any vertical section, said chamber being of substantially equal diameter with the diameter of the cylinder in a diametric vertical section containing the axis of said wrist pin, and substantially vertical side walls extending from said top portion down to



the top of said cylinder between the side walls of said frusto cone.

2,166,680
IMPULSE SWITCH
Frederick L. Creager, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1937, Serial No. 151,080
2 Claims. (Cl. 200—1)

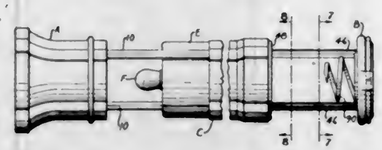


1. An impulse switch, comprising a toothed rotary member, a pair of flexible switch contact arms mounted in spaced relation adjacent the periphery of the rotary member, a fixed contact for the flexible arms, a ball disposed intermediate the wheel and flexible arms and movable by the teeth from the surface of one arm to the surface of the other arm as determined by the direction of movement of the rotary member, and a pair of stops for limiting the movement of the ball on the flexible arms whereby the force applied to the ball by the rotary member when it is adjacent a stop is transmitted through the ball to close the contacts adjacent thereto.

2,166,681
DIAZOAMINO COMPOUNDS
Hans Eduard Fierz-David and Willy Gerhard Stoll, Zurich, Switzerland, assignors to Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlmann, Paris, France, a corporation of France
No Drawing. Application November 18, 1937, Serial No. 175,341. In Germany December 5, 1936
6 Claims. (Cl. 260—140)

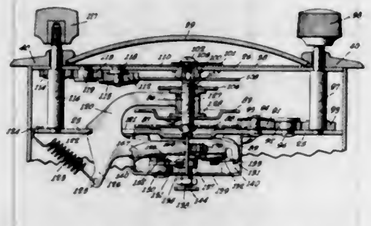
1. Process for the manufacture of diazo-amino compounds by diazotizing an amine and condensing the product obtained in a medium which must not be strongly acid with another amine which does not contain a phenolic OH group, the one amine being an aniline arsonic acid and the other amine being a member of the group consisting of primary and secondary amines containing at least one sulfonic acid group.

2,166,682
FLASHLIGHT
Herman G. Graubner, New York, N. Y., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York
Application September 18, 1935, Serial No. 41,015
18 Claims. (Cl. 240—10.6)



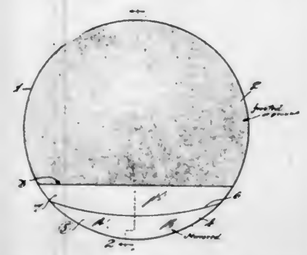
1. A flashlight casing comprising a head member, a reflector and cover glass secured in fixed relation thereto, a bottom member, and a tubular body between said members; and means so constructed and arranged that said members are permanently connected to said body but are independently axially separable therefrom a limited distance, said means maintaining said body and separable members in substantially rigid axial alinement when separated.

2,166,683
TIME CLOCK CONTROLLED AUTOMATIC MECHANISM
John H. Grayson, Lynwood, Calif.
Application June 7, 1937, Serial No. 146,705
4 Claims. (Cl. 161—1)



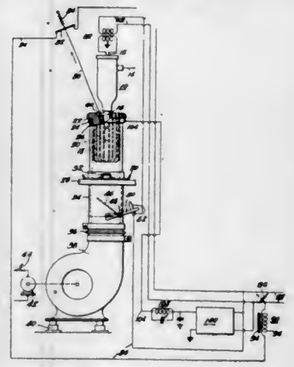
1. In a time clock mechanism, a rotatable sleeve, means for restraining said sleeve against axial movement, a gear secured to said sleeve, manual means for rotating said gear to a desired predetermined position, friction means for yieldingly holding said gear in selected position, a shaft coaxially journaled in said sleeve, a gear secured to said shaft, manual means for rotating said gear to a desired predetermined position, friction means for yieldingly holding said shaft gear in selected position, a pair of cam members coaxially journaled on said shaft between said sleeve and shaft gears, connections between said cam members for preventing relative rotation thereof while permitting relative axial movement therebetween, time clock actuated mechanism for rotating said cam members in unison, a cam on each of said cam members for bearing against the adjacent gear and holding said cam member and gear in axially spaced relation when in certain angular relationship, said gears having openings for receiving said cams when in registry therewith and thus permit axial movement of said cam members toward their respective adjacent gears, and yielding means normally urging said cam members toward their respective adjacent gears.

2,166,684
GLARE-PREVENTIVE LENS
Frank J. Hari, Newark, N. J.
Application June 11, 1936, Serial No. 84,633
3 Claims. (Cl. 240—41.4)



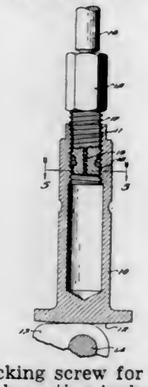
1. A headlight lens having its upper portion translucent to a point below the center, an opaque lower portion having a reflecting surface facing toward the front of the lens, and a transparent portion extending across the lens between the upper and lower portions.

2,166,685
PROTECTIVE SYSTEM AND APPARATUS FOR DISCHARGE TUBES
Roy A. Henderson, West Collingswood, and Vernon D. Hauck, Merchantville, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application November 25, 1936, Serial No. 112,700
5 Claims. (Cl. 250—27)



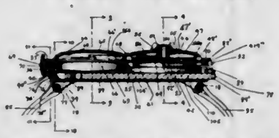
1. In combination, a discharge tube, a source of current, a switch for controlling the application of current from said source to said tube, said switch being mounted remote from said tube, biasing means tending to open said switch, tensioned insulating means for holding said switch closed against the force of said biasing means, and a thermal responsive element supported adjacent said tube for releasing the tension on said insulating means.

2,166,686
SELF-LOCKING ADJUSTING SCREW
Joseph H. Hoern, Saginaw, Mich., assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 22, 1937, Serial No. 138,292
5 Claims. (Cl. 151—22)



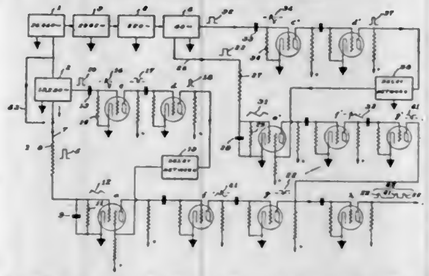
1. A self locking screw for valve tappets comprising a shank portion including a pair of integrally connected, axially spaced threaded sections, the lead of the thread of one of said sections being offset axially with respect to the lead of the thread of the other of said sections, one of said sections being slotted and having the peripheral surface thereof relieved at opposite sides in planes transverse to the plane of the slot.

2,166,687
COMBINATION WRIST WATCH
Howard A. Kehl, Detroit, Mich.
Application April 7, 1934, Serial No. 719,442
Renewed December 8, 1938
7 Claims. (Cl. 58—88)



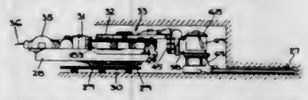
6. In a combination wrist watch of the class described: a casing having upper and lower sections hingedly mounted together; said upper section having a stationary dial ring portion and a movable dial ring provided on said upper section; latching means mounted on said upper section and engageable with said lower section; a circular opening formed within said stationary dial ring portion; a substantially circular recess formed within said stationary dial ring portion and within said upper section; a substantially circular wrist watch movement; a substantially cylindrical casing with a flat closed end enclosing said watch movement; a downwardly projected flange, bearing spaced projections having recesses, surrounding said substantially cylindrical casing and formed integral with said upper section; said substantially cylindrical casing bearing spaced tits and having outwardly projected gripping flanges positioned therebetween; said recesses engaging said tits; said gripping flanges being exposed when said upper and lower sections are unlatched and in open position to permit said substantially cylindrical casing to be disengaged from said downwardly projected recess-bearing spaced projections; said exposed gripping flanges being positioned on opposite sides of said last named casing to allow even pressure to be exerted thereon for forcing outwardly said last named casing from operative position.

2,166,688
TELEVISION APPARATUS
Ray D. Kell, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application December 18, 1937, Serial No. 180,502
7 Claims. (Cl. 250—36)



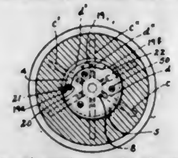
1. The method of producing periodically recurring impulses each having a front side which has a different slope than its back side, said method comprising producing an impulse having a back side of a certain slope, producing an impulse having a front side of a different slope, combining said impulses to produce a combined wave which has a portion having a back side with a slope determined by said certain slope and having a front side with a slope determined by said different slope, and passing only said portion to an output circuit.

2,166,689
MINING MACHINE
Lewis E. Mitchell, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application May 2, 1932, Serial No. 608,585. Divided and this application December 30, 1937, Serial No. 182,488. Renewed May 23, 1939
11 Claims. (Cl. 262—28)



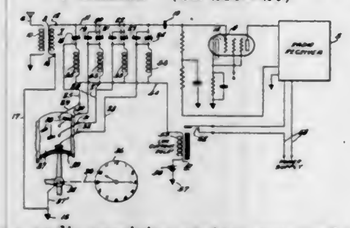
1. In a mining mechanism, the combination with a frame, of a kerf cutter mounted for pivotal movement relative to said frame, means for swinging said kerf cutter relative to said frame and automatically locking it in any adjusted position comprising interlocking worm and worm gearing, means for driving said worm comprising a shaft having friction brake means associated with one end thereof and pawl and ratchet means associated with the other end thereof, and means for supporting said shaft for free movement between said friction brake means and said pawl and ratchet means, said friction brake means operating to prevent reverse movement of said shaft when the ratchet of the pawl and ratchet mechanism makes a return stroke while permitting rotation thereof when said pawl makes a working stroke, and also operating to prevent creeping between said worm and worm gear under the influence of said kerf cutter when vibrating during operation.

2,166,690
LOCK
Wilson R. Neckerman, Pittsburgh, Pa.
Application June 11, 1938, Serial No. 213,215
4 Claims. (Cl. 70—358)



1. In a lock structure including a barrel, a rotary key-receiving plug secured in said barrel, tumbler-pins arranged in a plurality of sets of bores extending radially of the assembled plug and barrel with the several sets spaced angularly from each other, said pins normally extending across the shear-line between plug and barrel and locking said plug against rotation, said tumbler-pins being adapted to yield, to a key-blade of proper form inserted in said plug, into positions radially outward from said shear-line and to release the plug for rotation in the barrel, a rotatable member, a plurality of locking bolts extending substantially radially of the assembled structure and pivotally connected to said rotatable member eccentrically of its axis, lost-motion means effective upon rotation of said plug through a relatively great angle for rotating said member through a relatively small angle, to shift said bolts between alternate positions, means for limiting rotation of said member when it has been moved through said relatively small angle; the refinement herein described in which the angular interval between two of said sets of tumbler-pins is less than the sum of said relatively great angle and said relatively small angle.

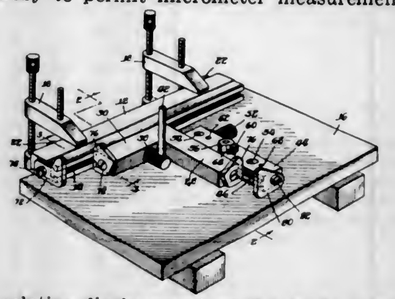
2,166,691
TUNING CONTROL SYSTEM FOR RADIO RECEIVERS
Victor T. Paré, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 30, 1938, Serial No. 198,812
7 Claims. (Cl. 250—20)



1. In a radio receiving system, means for tuning said system comprising a tuning element connectable to ground, a circuit providing said last named connection, time controlled contact means in said circuit, a parallel branch circuit for said last named circuit comprising a high frequency choke coil, a relay coil and a source of potential, and contacts controlled by said relay coil for energizing said receiver.

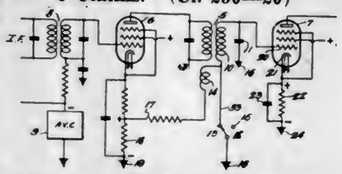
2,166,692
DRILL FIXTURE
William Ray, Chicago, Ill.
Application December 10, 1936, Serial No. 115,199
1 Claim. (Cl. 77—62)

In a device for locating drill holes, a longitudinally extending base member adapted to be fixed rigidly with a work-piece, an angle member having one arm mounted for longitudinal movement adjacent the base member, means to clamp said arm in any selected longitudinal position, a second arm extending outwardly from said first arm and having a drill guide plate thereon, a transversely extending gauge plate at the extremity of the first mentioned arm, a companion gauge plate transversely mounted on the base member whereby to permit micrometer measurement of



the relative displacement of the angle member, said angle member being reversible while the base member is rigidly fixed to the work-piece to permit the extremity of the first mentioned arm to face away from said base gauge plate, and means to transfer said base gauge plate to a second position on the base member at a point longitudinally removed from said first named position and opposite the extremity of said arm in its second named position.

2,166,693
SELECTIVITY CONTROL SYSTEM
James M. Riddle, Jr., West Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 30, 1937, Serial No. 151,217
6 Claims. (Cl. 250—20)

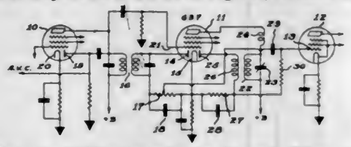


6. In a radio receiving system including a plurality of signal amplifier tubes, the combination of means providing a potential for adjusting the gain of at least one of said tubes, means for adjusting the coupling between certain of said tubes to control the selectivity characteristic of said system, said last named means including a coupling winding and a single control circuit through said winding and said first named potential means, and a single switch means in said control circuit for conjointly controlling connections with said winding and potential means, thereby conjointly to control the adjustment of gain and selectivity by operation of said switch means in said circuit.

2,166,694
NOISE REDUCTION SYSTEM
Eugene O. Selby, Camden, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 19, 1936, Serial No. 111,688
3 Claims. (Cl. 250—20)

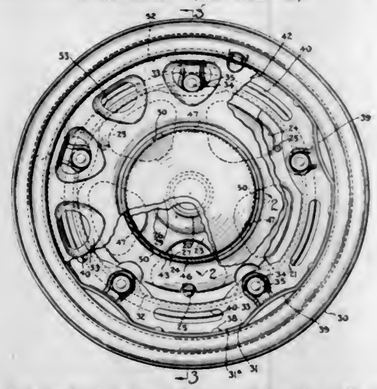
1. The combination of means providing a signal amplifier adapted to receive and amplify

signal and noise impulses in a relatively wide band of frequencies, an electron discharge device in said amplifier provided with grid electrode means for controlling the flow of signal and noise impulses, means in said amplifier for subjecting said grid electrode means to a control potential dependent on said signal, means in said



amplifier including a single tuned filter circuit for rejecting the desired signal impulses and accepting and detecting the noise impulses, thereby segregating said noise impulses from the signal impulses, and means for subjecting said grid electrode to a bias potential dependent on said segregated impulses.

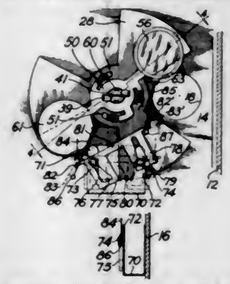
2,166,695
WHEEL
Andrew S. Van Halteren, Lansing, Mich., assignor, by mesne assignments, to The Firestone Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Original application April 18, 1935, Serial No. 17,020. Divided and this application April 18, 1935, Serial No. 17,021
3 Claims. (Cl. 301—6)



1. In a vehicle wheel the combination of a brake drum, a tire rim, an endless driving ring supporting said tire rim upon said brake drum, said driving ring comprising a portion disposed parallel to the plane of the wheel, said portion being deformed radially at circumferentially spaced points to provide a plurality of circumferentially spaced inwardly extending re-entrants, and means locally supporting the driving ring on the brake drum in the region of the re-entrants, the regions between re-entrants being otherwise unsupported and free to flex radially.

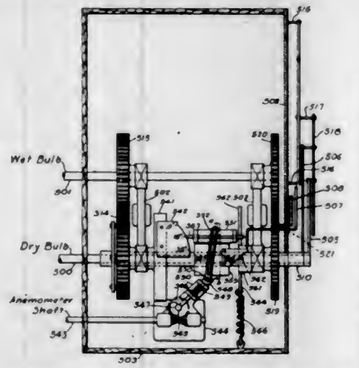
2,166,696
SAFETY SHUTTER FOR MOTION PICTURE PROJECTORS
Howard C. Wellman, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 11, 1938, Serial No. 207,337
18 Claims. (Cl. 88—19.4)

1. In a motion picture apparatus having a projection aperture, the combination with a driven shaft adapted to be rotated in either direction for forward or reverse operation of said apparatus, a safety shutter rotatably mounted on said apparatus and covering said aperture, and an actuating means operatively connected between said shaft and said safety shutter and adapted upon said shaft attaining a predetermined speed to cause movement of said shutter away from said aperture in a direction corresponding to the direction of rotation of said shaft, of a gravity



actuated means movably mounted on said apparatus and connected to said shutter for normally holding said shutter in covering position relative to said aperture, and means on said apparatus for guiding the movement of said gravity actuated means and adapted to eliminate a pendulum action of said gravity actuated means in returning said shutter to its covering position relative to said aperture.

2,166,697
APPARATUS FOR DETERMINING AIR CONDITIONS
George V. Woodling, Cleveland, Ohio, assignor to General Motors Corporation, a corporation of Delaware
Original application April 22, 1932, Serial No. 606,837. Divided and this application December 3, 1932, Serial No. 645,570
34 Claims. (Cl. 73—336)

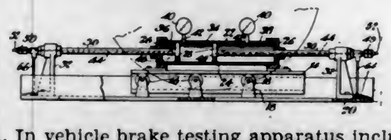


5. A measuring device for measuring the relative humidity and the effective temperature in all combinations of the dry-bulb temperature, the wet-bulb temperature, and the air motion comprising, in combination, means controllable in accordance with the dry-bulb temperature, means controllable in accordance with the wet-bulb temperature, means controllable in accordance with the air motion, differential means governed by the dry-bulb temperature means and the wet-bulb temperature means, means governed by the dry-bulb temperature means and the differential means for measuring the relative humidity, and means governed by the combination of the dry-bulb temperature means, the differential means, and the air motion means for measuring the effective temperature.

2,166,698
PROCESS OF MAKING NITRITE ESTERS OF POLYHYDROXY ALIPHATIC COMPOUNDS
Clyve Allen, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application September 17, 1937, Serial No. 164,421
10 Claims. (Cl. 260—466)

1. A process for the production of nitrite esters of open-chain saturated aliphatic compounds which comprises reacting an appreciably water-soluble open-chain saturated aliphatic compound containing a plurality of esterifiable carbinol groups with nitrous acid in an aqueous medium, and removing a nitrite ester from the reaction system substantially as soon as it is formed therein.

2,166,699
BRAKE TESTING APPARATUS
Thomas Anderson, Elizabeth, N. J., assignor to Power Patents Company, Hillside, N. J., a corporation of Maine
Application December 14, 1936, Serial No. 115,649
10 Claims. (Cl. 265—47)



1. In vehicle brake testing apparatus including a platform movably mounted for reciprocation while supportedly engaging a wheel controlled by the brake under test, the combination of a portable supporting frame for the platform and a relatively movable mounting between the frame and platform, and mechanism for reciprocating the platform including a fluid pressure cylinder having side and end walls attached to said platform for movement therewith, a piston means mounted in stationary transverse relation within said cylinder as a partition forming with the walls thereof two variable volume chambers, a pair of gauges each communicably connected with one of said chambers for measuring pressures developed therein, and stationary supporting means connected to the piston means and comprising combination pressure fluid supply and relief conduits including valves communicably connected respectively with each chamber.

2,166,700
METHOD OF BUILDING UP METAL PARTS
Irving T. Bennett, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
No Drawing. Application July 16, 1935, Serial No. 31,621
7 Claims. (Cl. 219—10)

4. The method of forming a bearing surface of leaded cupreous metal comprising depositing on and bonding to a metal backing, by use of an electric arc, metal of an elongated welding rod by causing the arc progressively to melt the end fractions of said rod and project and deposit them to build up the backing with said leaded metal, which rod is predominantly copper and contains tin and lead, the amount of tin not exceeding 12% and of lead not exceeding 15% of the metallic constituents of said rod, the lead being present in the form of metal of the group consisting of lead and tin-lead alloy.

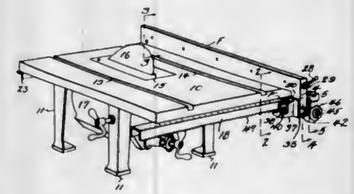
2,166,701
METHOD OF FORMING BEARING SURFACES
Irving T. Bennett, Rome, N. Y., assignor to Revere Copper and Brass Incorporated, Rome, N. Y., a corporation of Maryland
No Drawing. Application September 23, 1935, Serial No. 41,783
3 Claims. (Cl. 219—10)

1. The method of forming on a ferrous part a body having a surface portion of leaded cupreous metal containing up to 20% lead which comprises building up said ferrous part with a layer bonded thereto of substantially lead free copper or copper base alloy by progressively depositing the same on said part from a welding rod by use of a welding operation, and afterward building up said layer with a second layer bonded thereto of said leaded metal by progressively depositing on said first mentioned layer by the electric arc the metal of a welding rod which is predominantly copper and contains said lead.

2,166,702
PROCESS FOR THE PREPARATION OF OXYGEN CONTAINING COMPOUNDS OF CERIUM
Joseph Blumenfeld, Neuilly-sur-Seine, France, assignor to Societe de Produits Chimiques des Terres Rares, Paris, France
No Drawing. Application February 3, 1936, Serial No. 62,231. In France February 8, 1935
13 Claims. (Cl. 23—102)

1. In a process for the preparation of rare earth nitrates, the steps of causing the mixed sulfates of the rare earth metals to react with a nitrate of an alkaline earth metal in the presence of a solvent made slightly acid with nitric acid, separating, washing and recovering the alkaline earth sulfate so formed.

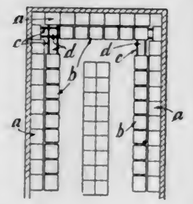
2,166,703
WOODWORKING MACHINE
John E. Boice, Toledo, Ohio
Application August 31, 1936, Serial No. 98,663
5 Claims. (Cl. 143—174)



5. In a machine of the class described, a bed provided with a fence carriage supporting rail comprising a horizontal portion and a downwardly projecting flange, a fence comprising a horizontal position and a downwardly projecting portion including a carriage slidable along said rail, said carriage having spaced vertical positions integrally connected by a portion extending under said flange, and adjustable elements extended

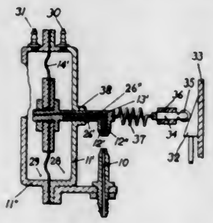
through said spaced portions in pairs that are spaced from each other longitudinally of the rail, each pair including substantially axially aligned elements adjustable toward and from each other and embracing between them the downwardly projecting flange of the rail.

2,166,704
MEANS FOR STORING ARTICLES IN WAREROOMS
Thomas Edward Foulkes, London, England
Application March 10, 1937, Serial No. 130,065
In Great Britain March 14, 1936
7 Claims. (Cl. 214—16)



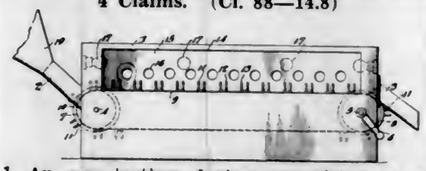
1. A storeroom construction adapted for the compact storage of merchandise comprising a floor, a series of fixed storage units on said floor, each of said units having a plurality of shelves and having a front opening, the sides of the adjacent units being in lateral contact, whereby all of said units are accessible from the front, a second series of similar units parallel to said first series located substantially in contact therewith with the backs of said second series adjacent to the front openings of said first series, said second series being less in extent by at least one unit and being mounted for lateral movement to expose any one of the units of the first series.

2,166,705
FLUID PRESSURE RELAY
Alfred Hochschulz, Chicago, Ill., assignor to Askania-Werke A. G., a German company
Application March 30, 1937, Serial No. 133,903
15 Claims. (Cl. 137—153)



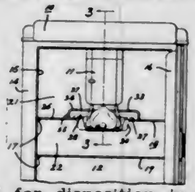
1. Fluid pressure relay comprising in combination, a hollow vessel having a movable wall; a stationary jet-pipe the jet issuing from same being substantially parallel to the wall; and a reception orifice member for receiving said jet, said reception member communicating with the interior of said vessel and connected to be moved with said wall transversely to said jet to register in a variable degree with said jet-pipe, whereby, upon a displacement of said orifice member transversely to said jet-pipe by an impulse, a pressure is set up within said vessel which is a function of the impulse.

2,166,706
EGG TESTING DEVICE
Adolf Schwarzkopf, Miami Beach, Fla., assignor of one-third to William F. A. Buehner, Miami, Fla.
Application January 16, 1937, Serial No. 121,001
4 Claims. (Cl. 88—14.8)



1. An egg testing device comprising, a case having light emitting openings formed laterally therein, light emitting means within the case, an endless belt, belt rollers mounting said endless belt with a straight portion thereof adjacent to the light emitting openings, egg holding clips carried in paired spaced relation upon said belt provided with flanges having opposed concavity on adjacent paired clips, said clips being adapted to extend in upright relation with the opposed concave sides engaging one end of and holding an egg in upright position upon the upper egg carrying portion of the belt when the belt is straight and to extend substantially radially with the opposed flanges of paired egg holding clips flared and separated to egg receiving and releasing relation when the belt travels over the rollers, and means to move said belt over the rollers to move eggs carried by said egg holding clips in front of the light emitting openings.

2,166,707
REFRIGERATING APPARATUS
Sylvester M. Schweller, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application November 19, 1937, Serial No. 175,476
2 Claims. (Cl. 211—153)

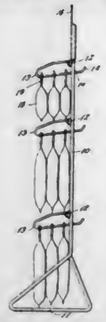


1. A shelf for disposition in a food storage chamber of a refrigerator cabinet, said shelf including a food supporting surface at one side thereof, said shelf having a plurality of integral portions forming an opening therein, said integral shelf portions comprising two sets of vertically spaced apart ledges extending along opposite sides of the opening therein for receiving and supporting a food storage receptacle, and said two sets of ledges serving to selectively support the receptacle on either set thereof within the opening in said shelf to thereby vary at will the position of elevation of the receptacle within the food storage chamber of the refrigerator cabinet.

2,166,708
DISPLAY RACK
Eugene E. Sullivan, Chicago, Ill., assignor to Queen Anne Candy Company, a corporation of Illinois
Application August 29, 1938, Serial No. 227,398
3 Claims. (Cl. 211—71)

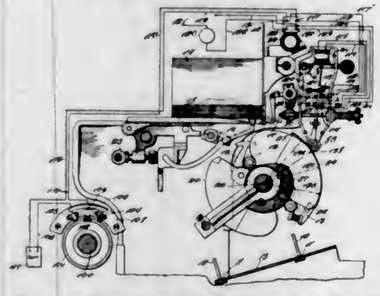
1. A merchandise display rack for holding a multiplicity of packaged articles comprising, in

combination, a pair of spaced upright supporting standards; horizontal bars rigidly connected to the uprights; and a plurality of package suspending prong members carried by each bar having their free ends projecting rearwardly behind said



standards and each being downwardly and forwardly inclined in front of said bars, whereby a plurality of packages may be threaded on each prong from the rear of the rack and the first one inserted exposed at the front of the rack.

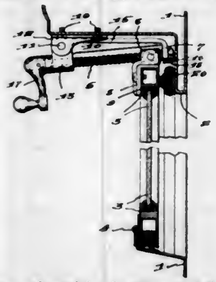
2,166,709
CALIPER FOR A GATHERER
Gustaf A. Swanson, Warwick, R. I., assignor to The Textile-Finishing Machinery Company, a corporation of Rhode Island
Application July 2, 1937, Serial No. 151,578
18 Claims. (Cl. 270—56)



1. In a gatherer, a rotary member for picking up signatures, means for measuring against said member the thickness of the signature picked up, said member gradually sloping to the measuring point to minimize inaccuracies due to momentum.

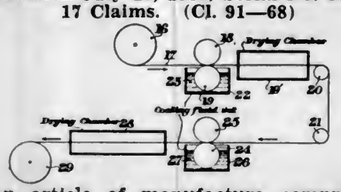
2,166,710
OPERATING MECHANISM FOR HINGED CLOSURES AND THE LIKE
Roy T. Axe, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York
Application January 18, 1938, Serial No. 185,566
2 Claims. (Cl. 268—108)

1. An operating mechanism for a closure hinged at its lower end and having an opening and closing movement, comprising a screw and a follower thereon pivotally connected to the closure above said closure and at a point remote from the axis of the hinge to permit relative pivotal movement of the follower and the closure during the movement of the follower in an arc about the axis of the hinge, and a bracket having a bearing in which the screw is journalled, the bracket being pivoted near said bearing and at one end of said screw at a fixed point remote from the closure and having an angular arm extending in a direction lengthwise of the screw and having a bearing for the screw at a point remote from the former bearing, said bearings being on



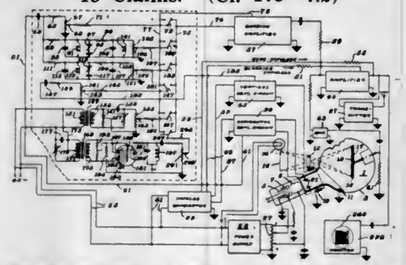
opposite sides of said closure and said follower being movable along the screw between the bearings, the pivotal axis of the bracket being substantially parallel to the pivotal axis of the follower and the pivotal axis of the follower substantially parallel to the axis of the hinge.

2,166,711
MOISTUREPROOF CELLULOSIC SHEETING
Norman F. Beach, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 17, 1931, Serial No. 551,491
17 Claims. (Cl. 91—68)



1. An article of manufacture comprising a thin, flexible, transparent colloidized cellulose organic ester sheet coated with a film of a moisture resisting composition the film-forming constituents of which consist essentially of a mixture of a wax and a gum.

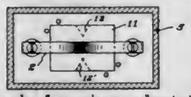
2,166,712
TELEVISION SYSTEM
Alda V. Bedford, Collingswood, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application October 26, 1934, Serial No. 750,055
18 Claims. (Cl. 178—7.2)



1. In combination, a cathode-ray picture transmitter tube of the type comprising a mosaic of

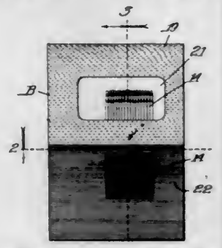
electron emissive capacity elements which are to be scanned by an electron beam to produce picture signals and undesired spurious signals which unevenly shade the picture, means for producing shading signals of a predetermined wave shape, and means for mixing said shading signals with said picture signals for balancing out said spurious signals, said shading signals having the characteristic that they affect the relative illumination in different parts of the picture.

2,166,713
PIEZOELECTRIC CRYSTAL MOUNTING
Samuel A. Bokovoy, Audubon, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 30, 1935, Serial No. 13,887
5 Claims. (Cl. 171—327)



1. An electrode for piezo-electric crystals comprising a substantially flat metal plate having a pair of sharply defined, flat surfaced, wedge shaped, crystal supporting risers thereon, the apex of each wedge being inwardly directed from opposite edges of said plate and defining an axis of symmetry of said plate.

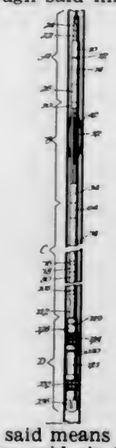
2,166,714
PACKAGE FOR NEEDLES AND THE LIKE
Edward P. Byrnes and Edward D. Davis, Chicago, Ill., assignors to The Boye Needle Company, a corporation of Illinois
Application September 10, 1937, Serial No. 163,310
1 Claim. (Cl. 206—66)



In combination, an envelope having a transparent window portion in its front wall, and means within said envelope for supporting needles with their eyes uppermost, said needles being spaced rearwardly from said front wall of the envelope, said front wall having a translucent portion extending over the lower portions of said needles and concealing the points of said needles as long as said points are spaced rearwardly of said translucent portion, said points, however, becoming visible when said translucent portion of the front wall is pressed against the lower portions of said needles.

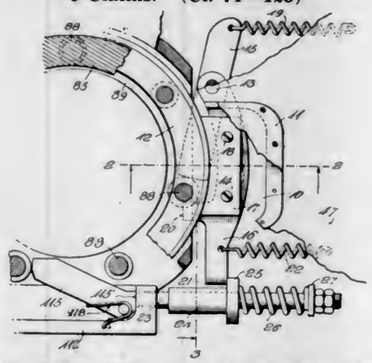
2,166,715
OIL WELL BAILER AND CLEANER
Paul Cavins, Long Beach, Calif.
Application June 23, 1937, Serial No. 150,003
12 Claims. (Cl. 166—19)

1. In a cleaning device for wells, a casing, said casing having a port through which a charge is drawn into the same, a closed substantially air tight chamber in said casing, said chamber having an inlet thereto, a valve for closing said inlet when the device is being lowered into the well, automatically operable means on said device for moving said valve from its seat when the device is lowered to the desired depth in the well, and then moved relatively to the wall thereof, to effect a rush of fluid into said casing through said port and through said inlet past said valve



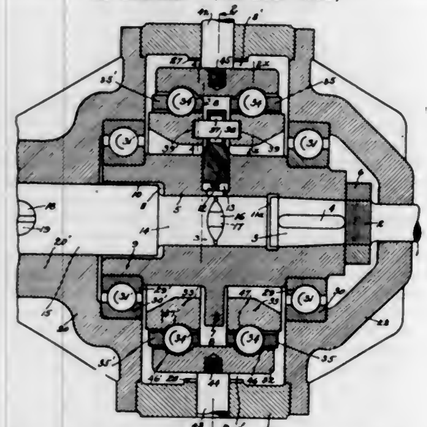
into said chamber, said means including a member positioned above said air-tight chamber for engaging the wall of the well and remaining in fixed relation thereto during said relative movement, and means for locking said valve in open position.

2,166,716
INDEX AND BRAKE DEVICE
Austin S. Chandler, Fitchburg, Mass., assignor to The Brown Bag Filling Machine Company, Fitchburg, Mass., a corporation of Massachusetts
Application January 26, 1939, Serial No. 253,023
6 Claims. (Cl. 74—128)



1. An index device consisting of a rotatable member having a plurality of concentrically spaced strikes thereon, a reciprocable pawl mounting movable beside the path of the strikes and having a pawl positioned thereon to engage and to propel the strikes on movement of the mounting in one direction in its reciprocation, said rotatable member having a brake ring, a brake member mounted for movement in a fixed path toward and away from said ring and having a friction element thereon to engage the ring at one limit of movement of the brake member, a resilient operative connection between the pawl mounting and brake member, said brake member having an extension so located that at the full braking position of the brake member said extension will lie in the path of said strikes at the desired limit of step movement thereof by said pawl but will be clear of the strikes at full release position of the brake member, and means to retract the brake member to clear said extension from said path.

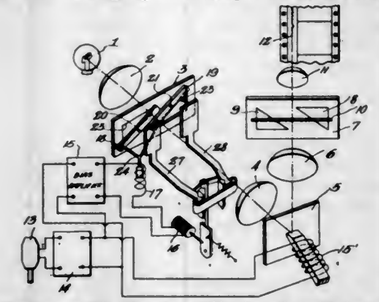
2,166,717
PUMP OR MOTOR
Elek Benedek, Mount Gilead, Ohio
Application March 20, 1934, Serial No. 716,451
13 Claims. (Cl. 103—161)



1. In a pump or motor in combination, a casing, comprising a pair of axially spaced bell-shaped cover members and means rigidly connected therewith and completing the casing, a rotor mounted in said bell-shaped covers and having a central cylindrical portion and an axial bore and counter bore, a pintle rigidly secured in one of said bell-shaped covers and projecting into said casing and into said bore and counter bore and having a reduced portion forming with said bore a central valve for said rotor, said reduced portion of the pintle having just sufficient axial length to seal the pressure fluid by its viscosity in the telescoping clearance between said reduced portion and associated bore of the barrel, an impeller shaft carried by the barrel at the end opposite the pintle, a plurality of radial cylinders carried by the barrel, a piston carried in each of said cylinders, an enlarged head on each piston, a flange located in the plane of the pistons and having driving surfaces slidably engaging each of said heads, transverse bores in the piston heads, antifriction bearing means carried in said bores, circular reaction members at each side of said series of piston heads, grooves in each reaction member to receive the adjacent ends of said bearing means, and means to maintain said reaction members in spaced relation while adjustably supporting the same for governing the stroke of the pistons.

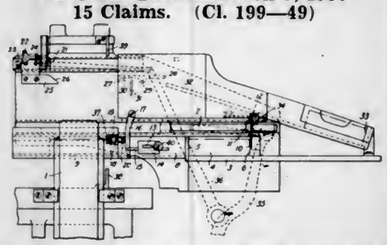
2,166,718
SOUND RECORDING
Glenn L. Dimmick, Erlton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application June 26, 1937, Serial No. 150,515
11 Claims. (Cl. 179—100.3)

1. Apparatus of the class described, including means for projecting an image of a light aperture upon a slit, means for moving said image in accordance with the impulses to be recorded, and means for changing the shape of said image in



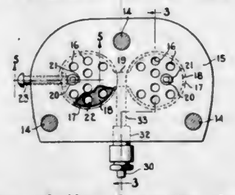
accordance with the amplitude of said impulses while maintaining a substantially constant area of said image.

2,166,719
TYPOGRAPHICAL SLUG CASTING MACHINE
Herbert Ellis, Shanghai, China, assignor to Linotype and Machinery Limited, London, England, a limited liability company of Great Britain
Application January 22, 1938, Serial No. 186,331
In Great Britain March 9, 1937
15 Claims. (Cl. 199—49)



1. A typographical slug casting machine comprising means for receiving a hand-composed line of matrices to be inserted therein, means for conveying said line to a slug casting position; means for casting a slug against said matrices, and means for thereafter returning said line to a stationary support within easy reach of the point of insertion.

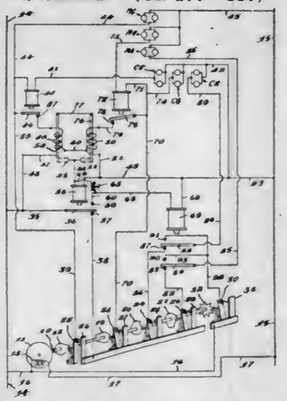
2,166,720
FUEL MIXING DEVICE
Alexander Gorleski, Leonia, N. J.
Application May 24, 1937, Serial No. 144,533
2 Claims. (Cl. 48—180)



1. A device of the character described comprising a body member adapted for attachment to an intake manifold, said body member having a central opening therein, a plate carried by said body member and having a plurality of perforations disposed above said central opening, a pair of discs disposed beneath said plate within said central opening, said discs being united for move-

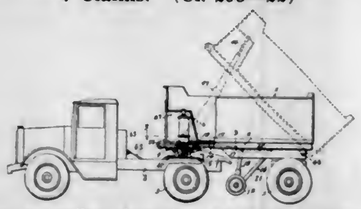
ment in unison and having a series of openings capable of alignment with the perforations in said plate, means for slidably connecting said discs with said plate, and means carried by said body member having engagement with one of said discs for adjusting said discs relative to said plate.

2,166,721
TRAFFIC SIGNAL SYSTEM
Walter M. Jeffers, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application July 1, 1937, Serial No. 151,476
2 Claims. (Cl. 177—337)



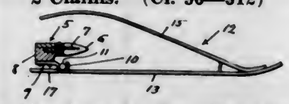
1. A traffic signaling system including a plurality of signal circuits, each of said circuits including a signal light and a switch, a timer operable to successively and repeatedly actuate said switches, a flasher switch, a feed circuit for said flasher switch, a feed circuit common to said first mentioned switches including means normally connecting said feed circuit to said switches and operable to disconnect the feed circuit from said switches, certain of said signal circuits including means normally connecting the same to certain of said first mentioned switches, and being operable to disconnect said caution signal circuits from said first mentioned switches and to connect the same to said flasher switch, certain other of said signal circuits including means operable, upon failure of the signal light in said other circuit, to effect operation of said means in said feed circuit, and to effect operation of said means in said first mentioned signal circuit.

2,166,722
TRAILER DUMPING APPARATUS
Amos H. Kirksey, Los Angeles, Calif.
Application January 25, 1938, Serial No. 186,839
7 Claims. (Cl. 298—22)



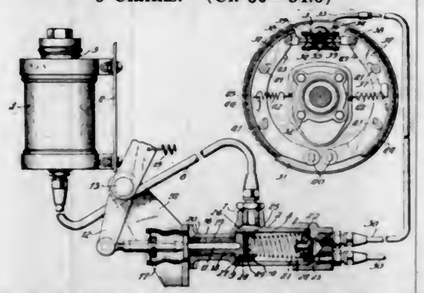
1. In a trailer dumping apparatus, the combination of a vehicle having a king-pin mounted at its rear end, a fluid-operated hoist mounted on the upper end of the king-pin, a trailer having means for engaging the king-pin to enable the vehicle to pull the trailer, said trailer having means for engaging the upper end of the plunger of the hoist; and means for admitting a fluid under pressure to the hoist to elevate the forward end of the trailer.

2,166,723
CUTTER BAR ATTACHMENT
Ivan Knight, Mayfield, Kans.
Application August 12, 1938, Serial No. 224,629
2 Claims. (Cl. 56—312)



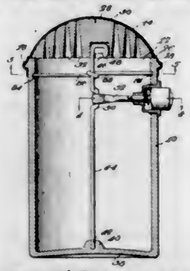
1. In a structure of the class described, in combination, a sickle bar construction including a frame and stationary and movable cutting teeth, a series of longitudinally spaced brackets attached to the under side of said frame and projecting forwardly therebeyond and terminating in seating and hinging hooks, each hook being of substantially U-shape with its opening uppermost and its bight lowermost, a bar removably supported by said hooks, spaced ground engaging runners having their rear ends connected with the bar and the front ends curving upwardly and spring fingers having one end connected with the forward part of each runner, said fingers extending upwardly and rearwardly.

2,166,724
HYDRAULIC BRAKE
Erwin F. Loweke, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California
Application December 30, 1931, Serial No. 583,875
9 Claims. (Cl. 60—54.6)



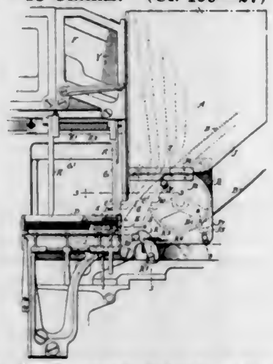
1. In brake mechanism of the class described, the combination of a compression cylinder having a discharge outlet, a piston in said compression cylinder, a spring for returning said piston, a tubular extension in rear of said compression cylinder, said tubular extension having a bore less than that of the compression cylinder and forming a stop for said piston, a sealing part integral with said piston and extending into said tubular extension, said sealing part provided with an annular chamber cooperating with the bore of said extension, a reservoir communicating with said compression cylinder and chamber, a restriction valve between said reservoir and chamber cooperating with said piston to create pressure in said chamber during the return stroke of said piston, and a cup washer associated with said piston to permit flow of fluid from said extension into said cylinder.

2,166,725
SALT SHAKER
Carl Anthony Mandery, Sycamore, Ill.
Application June 6, 1938, Serial No. 212,164
2 Claims. (Cl. 65—45)



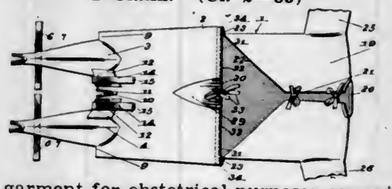
1. A shaker comprising a container having an open end, a perforated cover detachably connected with the open end of the container, a rotative body fitting snugly against the inner face of the cover and resting on said open end, said rotative body having perforations arranged to be brought into alignment with the perforations in the cover when the moisture absorbing body is rotated relatively to the cover, a shaft having one end rotatively related to the bottom of the container and its other end keyed to the rotative body for rotating the latter when the shaft is rotated, a brace member for the upper end of said shaft anchored to the wall of the container, a crank interposed in said shaft, a reciprocatory operating shaft having one end loosely connected with said crank and its other end extending loosely through an opening in the wall of the container, and resilient means cooperable with the operating shaft and the wall of the container for yieldingly holding the operating shaft in its normal position, with the perforations in the rotative body out of register with the perforations in the cover, said first shaft being rotated by an inward thrust of the operating shaft for rotating the rotative body to bring its perforations into register with the perforations in the cover.

2,166,726
TYPOGRAPHICAL COMPOSING MACHINE
Richard R. Mead, Queens Village, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application February 4, 1938, Serial No. 188,603
15 Claims. (Cl. 199—27)



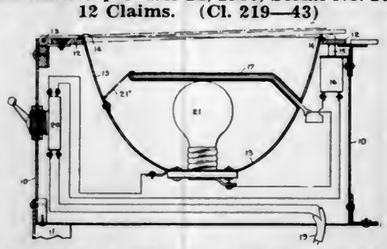
1. In or for a typographical composing machine, matrix assembling mechanism including, in combination, an assembler, a partitioned entrance and a chute through which the matrices pass to the assembler for composition in line, upper and lower cover plates constituting a wall for the entrance and chute, and means for locking the cover plates together, said locking means being located entirely without the plane of the inner faces of the cover plates so as not to interfere with the passage of the matrices through the entrance and chute.

2,166,727
SURGICAL GARMENT
Bessie Crumpler Mott, Kilgore, Tex.
Application April 6, 1937, Serial No. 135,311
1 Claim. (Cl. 2—83)



A garment for obstetrical purposes comprising a hip enveloping portion having a wide crotch between leg openings, said crotch having an opening, a separate flap on each side of said opening, each flap being secured longitudinally of the crotch so as to conform to the rounded shape of a human body and thus impel said flaps to automatic closure, bands secured in said crotch under which to tuck the flaps when desiring to prevent said automatic closure, pouches embodied in said hip enveloping portion, each consisting of a lateral fullness extending down approximately in line with the crotch and offset from the leg openings.

2,166,728
BEVERAGE DEVICE
Charles E. Page, Brooklyn, N. Y.
Application September 14, 1936, Serial No. 100,669
12 Claims. (Cl. 219—43)

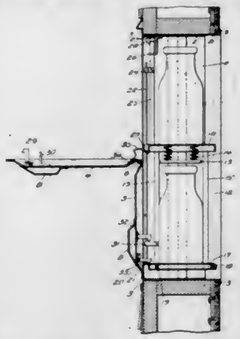


1. A device for heating and illuminating a beverage, comprising a stand adapted to support a transparent or translucent container, means supported by said stand and adapted to be adjacent a container supported thereby and being primarily a source of light and secondarily a source of heat and which is adapted to cause light and heat radiations therefrom to pass into and through the beverage in a container supported by said stand to thereby illuminate the beverage, and means for concentrating and directing the light and heat from said means onto said container and into the liquid therein.

2,166,729
THEFTPROOF MILK BOTTLE CABINET
Robert W. Reed, Chicago, Ill.
Application October 1, 1937, Serial No. 166,889
5 Claims. (Cl. 232—41.2)

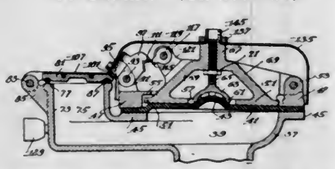
1. A milk bottle cabinet comprising a housing, a movable upper spring pressed full bottle re-

ceiving platform dividing the housing into upper and lower compartments, an empty bottle receiving platform in the lower compartment and carried by the upper platform, a door for each compartment, cooperating latching means for the



doors and carried by the platforms to be actuated thereby upon movement thereof to door releasing and locking positions by the application and removal of bottles with respect to the platforms, and means to prevent movement of the platforms when the upper door is open.

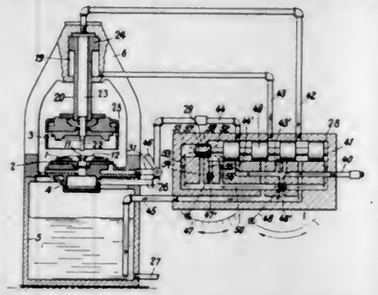
2,166,730
RELIEF VALVE
William Dana Schanck, Rochester, N. Y., assignor to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application October 26, 1937, Serial No. 171,063
10 Claims. (Cl. 277—20)



1. A relief valve comprising a casing having two openings, separate closure means for closing each of said openings, both of said closure means being subject to pressure within said casing, one of said closure means being shiftable to an open position, latch means for holding said shiftable closure means in closed position, and means controlled by the other of said closure means for releasing said latch means so that said shiftable closure means may move to open position, increasing outward pressure on said other closure means being effective first to hold said shiftable closure means more firmly in closed position and finally to release said shiftable closure means when a critical pressure point is reached.

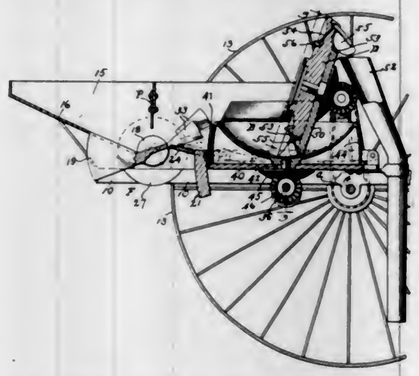
2,166,731
METHOD OF AND APPARATUS FOR HARDENING GEARS
Heinrich Schicht, Huckeswagen, Germany, assignor to the firm: W. Ferd. Klingelnberg Sohne, Remscheid-Berghausen, Germany
Application May 3, 1937, Serial No. 140,536
In Germany May 7, 1936
6 Claims. (Cl. 266—6)

1. The method of hardening a heat treated metal gear which method consists in holding said gear totally enclosed in a chamber while it is in a highly heated condition, and subjecting it to a pre-cooling step by flooding it with a moving bath of cooling oil for a predetermined period of



time sufficient to prevent distortion of the gear, clamping the gear rigidly to prevent it from warping as it cools, and then subjecting it to further treatment with cooling oil.

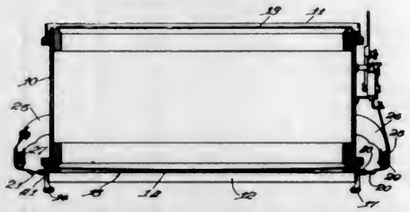
2,166,732
POTATO PLANTER
Charles F. Schmidt, Jeffersontown, Ky.
Application July 16, 1937, Serial No. 154,067
19 Claims. (Cl. 221—135)



1. A potato planter comprising a frame, a seed-receiving-bin carried thereby, a seed-receiving-bowl having its upper edge above the plane of the bottom of said bin, means for periodically elevating seeds from the bin to a position above the top edge of the receiving bowl, a seed-discharge-chute having its inlet end in a higher plane than that of the seed-receiving-bowl, and means located at a fixed position within said bowl for individually transferring seeds from the interior of the bowl to the inlet end of the chute.

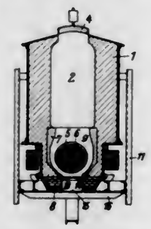
6. A potato planter comprising a frame, a rotatable seed-receiving bowl, a carrier disk having peripheral seed-receiving pockets therein, said disk being rotatably mounted on an inclined axis in such position that the lower portion thereof travels within the bowl, movably mounted closure walls adapted to close the rear portions of the respective pockets, there being one closure wall for each pocket, means for rotating said disk and said bowl, means acting to normally move said closure walls to open position, and means for temporarily holding said walls in closed position until each pocket reaches a predetermined position during rotation of the disk.

2,166,733
SNARE DRUM
Henry H. Slingerland, River Forest, Ill.
Application May 22, 1937, Serial No. 144,246
3 Claims. (Cl. 84—415)



1. A drum of the character described, including: a shell; a head; a pair of brackets mounted on opposite sides of said head having adjustable portions substantially flush with but spaced from said head, said adjustable portions comprising members each supported by a pair of independent threaded studs mounted in said brackets, whereby the plane of the upper surface of said members as well as the vertical position thereof may be varied with respect to said head; a snare carried by said adjustable portions, whereby the contact of said snare with said head may be varied; and means on said drum connected to said snare for releasing the tension in said snare.

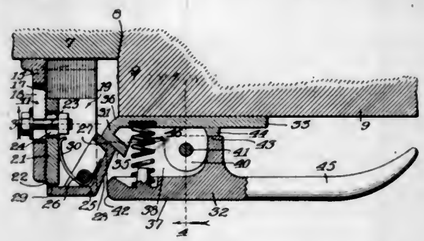
2,166,734
LOW FREQUENCY INDUCTION FURNACE
Rudolf Strube and Walter Ewald, Finow/Mark, Germany
Application June 21, 1937, Serial No. 149,534
In Germany June 27, 1936
5 Claims. (Cl. 13—29)



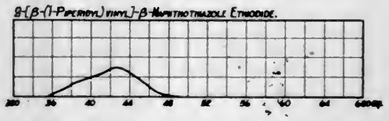
1. In a tiltable low frequency induction furnace, a frame for supporting said furnace, means for tilting the furnace, side and bottom walls forming a branched vertical melting channel and having a cleaning opening in said bottom wall arranged to allow cleaning of each branch of said melting channel by means of rigid scraping tools, and a plug fitting into said opening for closing said opening.

2,166,735
LATCH
Delbert Sward, Freeport, Ill., assignor to Arcade Manufacturing Company, Freeport, Ill., a corporation of Illinois
Application May 15, 1937, Serial No. 142,910
1 Claim. (Cl. 292—226)

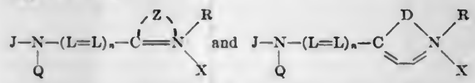
Latch mechanism adapted for association with a hinged door having an abutment member and a lever release means cooperating therewith; the mechanism comprising a hollow post open at one side thereof, a hollow slide in said post having an open side located at the open side of the post, means to hold said slide in adjusted position on the post, and a detent pivoted within said slide and extending through its open side, a spring urging projection of the detent, said detent having a portion extending across and normally contacting the front of the slide, and said detent at the open side of the slide having a double cam surface.



2,166,736
PHOTOGRAPHIC EMULSION
Frank L. White and Grafton H. Keyes, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application April 23, 1937, Serial No. 138,634
19 Claims. (Cl. 95—7)



1. A photographic silver halide emulsion sensitized with a sensitizing dye selected from the group of dyes characterized by one of the following formulas:

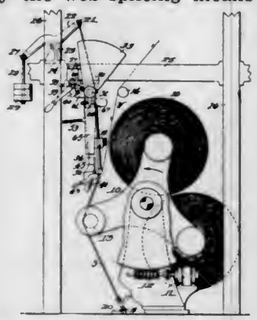


wherein D represents a divalent group selected from the group consisting of vinylene and phenylene groups, L represents a methenyl group, n represents a positive integer not greater than three, J represents a group selected from the group consisting of hydrogen and alkyl groups while Q represents an alkyl group and J and Q together represent the non-metallic atoms necessary to complete an organic basic cyclic nucleus other than a pyrrol nucleus, R represents an alkyl group, X represents an acid radical and Z represents the non-metallic atoms necessary to complete an organic heterocyclic nucleus.

2,166,737
WEB SPLICING APPARATUS
Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia
Application January 4, 1933, Serial No. 650,121
Renewed July 13, 1937
17 Claims. (Cl. 242—58)

15. In a web splicing apparatus, the combination of a rotatable roll-supporting reel, web splicing means movable to operative and inoperative positions, means for rotating the reel so that the web-splicing means forces the web against the fresh roll, and means controlled by the force

exerted by the web-splicing means against the



web and fresh roll for stopping rotation of the reel.

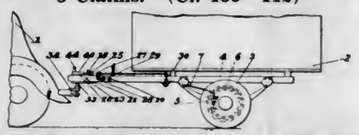
2,166,738

TRAILER HITCH AND BRAKE

Freeman J. Bradley, Ypsilanti, Mich., assignor to Bruce L. Bradley, Ypsilanti, Mich.

Application November 4, 1936, Serial No. 109,193

3 Claims. (Cl. 188—112)



3. A trailer hitch comprising a guide which is securable to a trailer, a hitch lock and means by which it is movably carried by said guide, said lock having means enabling its connection to a pulling vehicle, and said lock having a hole, a lever pivotally carried by the guide, one of its ends being connectible with brake mechanism of the trailer, a pin on the guide confronting the other end of said lever, an arm projecting from a part of said trailer in line with the hole, and means movably carried by the hitch lock for temporarily closing the hole.

2,166,739

MANUFACTURE OF ARTIFICIAL SILK

Hans Karplus, Frankfort-on-the-Main, Germany, assignor to North American Rayon Corporation, Elizabethton, Tenn., a corporation of Delaware

No Drawing. Original application November 16, 1927, Serial No. 233,747. Divided and this application October 13, 1936, Serial No. 105,439. Renewed November 10, 1938. In Germany December 8, 1926

6 Claims. (Cl. 18—54)

1. In the preparation of artificial silk, the step of preparing a highly dispersed suspension of thorium oxide thoroughly mixing such suspension with the spinning solution and spinning the artificial silk.

2,166,740

MANUFACTURE OF ARTIFICIAL SILK

Hans Karplus, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to North American Rayon Corporation, a corporation of Delaware

No Drawing. Original application November 16, 1927, Serial No. 233,747. Divided and this application July 26, 1938, Serial No. 221,396. In Czechoslovakia September 17, 1925

8 Claims. (Cl. 28—1)

1. An artificial silk filament having a lustre resembling that of natural silk and containing finely divided, dispersed undissolved particles of a material of the class consisting of alkaline earth soaps and calcium naphthenate, said filament having void spaces therein.

2,166,741

ARTIFICIAL SILK

Hans Karplus, Frankfort-on-the-Main, Germany, assignor, by mesne assignments, to North American Rayon Corporation, a corporation of Delaware

No Drawing. Application November 16, 1927, Serial No. 233,747. In Germany December 8, 1926

20 Claims. (Cl. 18—54)

1. A method for making artificial silk filaments having a dull lustre comprising the steps of incorporating foreign substances in a fine and even distribution in the silk filaments and removing a part only of the incorporated foreign substances from the filaments whereby the pitted surface resulting from the said removal contributes to the desired delustering effect.

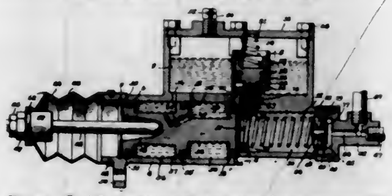
2,166,742

VOLUMETRIC CONTROL MASTER CYLINDER

Homer T. Lambert, St. Joseph, Mich.

Application February 3, 1937, Serial No. 123,893

12 Claims. (Cl. 60—54.6)



1. In a fluid pressure apparatus comprising a cylinder having a large and a small chamber and means movable in said cylinder to develop an initial pressure, a relief valve connected to said large chamber for relieving the initial pressure, said valve comprising a valve port, a movable valve member adapted to close said port, and resilient means adapted to direct said member to port closing position, said valve member having an elongated extension extending through said port and beyond said valve member, said extension being tapered whereby to varyingly throttle the flow through the valve as the valve member moves to open position.

2,166,743

OPENING AND CLOSING MECHANISM FOR GATES, DOORS, AND THE LIKE

Denver Miller, Modoc Point, Oreg.

Application October 28, 1937, Serial No. 171,555

2 Claims. (Cl. 39—51)



1. In a gate operating mechanism, in combination, a gate, a pair of cylinder and piston units connected with the gate each adapted to open and close said gate, a control valve unit for each cylinder and piston unit, an actuating unit associated wtih each control valve unit, said actuating unit comprising a vehicle operated member and comprising also a cylinder having upper and lower

pressure medium chambers, valve means between said upper and lower chambers, a piston in the upper chamber operable by the vehicle operated member of the unit, a piston in the lower chamber of the actuating unit, spring means to actuate said lower chamber piston and adapted to have energy stored up therein by the passage of a fluid pressure medium from the upper chamber by the said valve into the lower chamber, each control valve unit comprising an inwardly opening valve and an outwardly opening valve, a conduit connecting each actuating unit at the lower chamber thereof with the associated control valve unit at the inlet valve of the latter, conduit means connecting the upper chamber of each actuating unit with the other control valve unit at the outwardly opening valve portions thereof, and a conduit connecting each control valve unit with one end of an associated one of the cylinder and piston units for the purpose described.

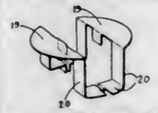
2,166,744

ELECTRON DISCHARGE DEVICE

Harry R. Seelen, South Orange, and Kenneth M. McLaughlin, Arlington, N. J., assignors, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application May 28, 1938, Serial No. 210,648

4 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising a plurality of parallel planar type electrodes, each electrode being rectangular and having two ears extending from each of the side edges of the electrode, two flat spacers of insulating material normal to the plane and adjacent the side edges of the electrodes, steps along the edges of the spacers with the ears of the electrodes bearing against said steps for holding the electrodes in insulated spaced relation.

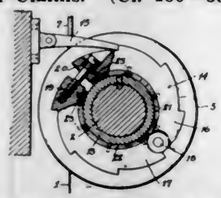
2,166,745

SCREEN CONTROL

Sydney Appel, Newark, N. J., assignor of one-third to William J. Foster, Little Ferry, N. J., and one-third to Samuel Appel, Newark, N. J.

Application August 25, 1938, Serial No. 226,757

4 Claims. (Cl. 156—35)



4. A screen control including a roller, a ratchet wheel mounted on said roller, said ratchet wheel being formed in two parts, a hinge for connecting said parts together at one point, means at a second point for swinging said parts toward each other, a pawl for preventing said ratchet wheel from rotating in one direction and a friction shoe connected to said ratchet wheel interiorly thereof and positioned to engage said roller whereby said pole will be rotated freely in one direction with the ratchet wheel and in the other direction will rotate against the action of the friction produced by said friction shoe.

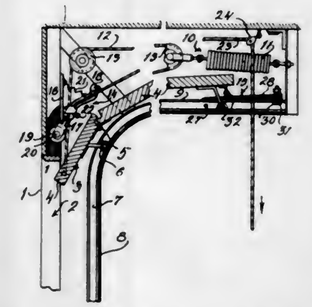
2,166,746

OVERHEAD OPERATING GARAGE DOOR CONSTRUCTION

Harry H. Bartel, Philadelphia, Pa., assignor to Huck-Gerhardt Company, Inc., Philadelphia, Pa.

Application July 10, 1937, Serial No. 153,030

7 Claims. (Cl. 20—20)



1. An overhead door structure of the character described comprising: a door frame forming a door opening, a door slidably mounted in relation to the door frame for movement to opening position and to closing position, guide rollers carried by the door, a guide track having its inside portion in engagement with said rollers for guiding the door in its movements, an auxiliary track section mounted on the outside portion of the guide track and yieldably held in inclined relation with respect to the associated guide track and to the direction of the door when moving to its opening position, and means carried by the door in a plane paralleling that of the guide rollers thereon and disposed outside the guide track for riding engagement with said auxiliary track section whereby said guide rollers, because of their engagement with the guide track, will cause said means carried by the door to wedgingly ride over the auxiliary track section and forcibly depress the same, thereby gradually retarding the door in its final opening movement.

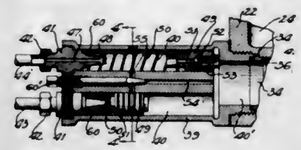
2,166,747

SAFETY DEVICE

Frank C. Best, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application January 6, 1936, Serial No. 57,696

7 Claims. (Cl. 303—84)



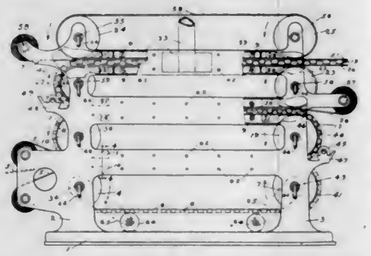
1. In a hydraulic system for applying vehicle brakes, the combination with a power cylinder having an outlet with an opening therein connected to a brake, a piston in the cylinder, and cap means on the piston for telescoping and sealing the cylinder outlet in frictionally binding relation while the outlet opening is exposed to atmosphere, said piston being moved by a brake applying operation of the system to place the cap means in sealing relation with the outlet.

2,166,748
WOMAN'S STOCKING OR THE LIKE
Richard Bloch, Pelham Manor, N. Y.
Application December 10, 1937, Serial No. 179,034
5 Claims. (Cl. 96—24)



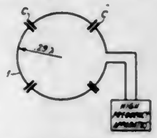
1. A woman's stocking, made of woven, open, lacelike mesh, the stocking in length, when not worn, being materially shorter than that portion of the leg to be enclosed therein and normally smaller peripherally than the corresponding portion of the leg, the open, woven, lacelike mesh portion thereof comprising elastic threads having a covering material spirally wound thereon, to provide a base thread, each base thread being accompanied in its course by a bobbin thread, a base thread periodically meeting another base thread, said meeting base threads being in surface contact and accompanying each other for a predetermined distance such distance being in excess of one-half of the length of the accompanying courses, said base threads periodically changing their courses to define the individual mesh, the accompanying bobbin threads of each base thread encircling all of the base threads where they meet or coincide, said stocking when worn being drawn to substantially leg length in a direction lengthwise of the leg and being extended under resilient conditions in a direction around the leg to snugly fit the leg and conform to the varying contour thereof, the extension of the stocking under such resilient conditions being within the maximum stretchability thereof.

2,166,749
MACHINE FOR UNDULATINGLY CORRUGATING CARDBOARD
Harold G. Burrill, Baltimore, Md.
Application December 22, 1937, Serial No. 181,213
7 Claims. (Cl. 154—32)



1. A machine for corrugating mediums, comprising in combination, a frame, a plurality of rollers on the frame for processing the medium, carriers for conveying the medium between the rollers, cross-pieces on the carriers for corrugating the mediums thereon by their pressure on the upper and under surfaces thereof, means connected with the rollers for removing moisture from the medium, a plurality of auxiliary rolls for supporting the carriers and causing the medium to be additionally moulded thereby, as the moisture is removed therefrom, a plurality of rollers on the frame for adding reinforcing materials to the mediums after corrugation, calender rollers for finishing the medium after reinforcing, and curing chamber means mounted on the frame arranged to surround the medium passing to the calender rolls, means for operating the rollers and carriers.

2,166,750
ANTENNA
Philip S. Carter, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 15, 1936, Serial No. 64,021
14 Claims. (Cl. 250—33)
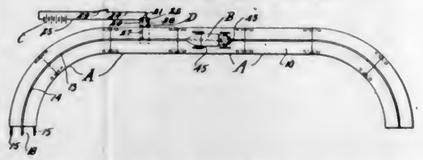


1. An antenna comprising a loop having a radius which corresponds to a maximum or a minimum of the function $J_1(2\pi a/\lambda)$, where a is radius, λ the wavelength, and $J_1(2\pi a/\lambda)$ is the first order Bessel function of the first kind with the argument $(2\pi a/\lambda)$.

2,166,751
MECHANICAL PENCIL
Frank P. Cooper, Clifton, Ohio
Application November 26, 1937, Serial No. 176,592
6 Claims. (Cl. 120—17)



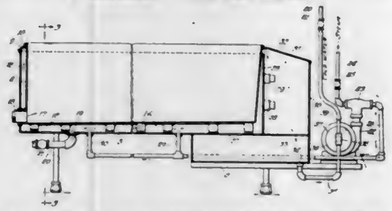
1. A mechanical lead pencil comprising a hollow barrel adapted to receive a plurality of leads, a hollow ferrule rotatably secured to one end of said barrel, said ferrule having an outlet opening, means in said barrel for guiding one of said leads at a time into said ferrule, and means including a pair of swinging jaws in the ferrule for intermittently grasping and moving the lead therein to and through said outlet opening, said means being reversible whereby said lead may be withdrawn.

2,166,752
ROADWAY FOR TOY ELECTRIC VEHICLES
Albert Edward Cullen, Willow Grove, Pa.
Original application March 27, 1936, Serial No. 71,236. Divided and this application September 1, 1937, Serial No. 161,892
2 Claims. (Cl. 238—10)



1. A sectional toy roadway for toy electric automobiles, each section comprising a flat sheet metal road surface having a groove therein extending longitudinally thereof, an electrical conductor in said groove extending substantially for the full length of the section, a second electrical conductor contacting said first mentioned conductor and projecting from one end of the section and terminating short of the other end of the section and means insulating said conductors from the groove.

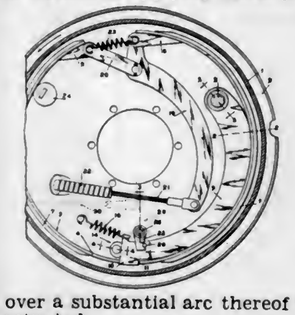
2,166,753
CHEESE VAT
Clark Derleth, Watertown, Wis., assignor to Kusel Dairy Equipment Co., Watertown, Wis., a corporation of Wisconsin
Application October 21, 1938, Serial No. 236,145
7 Claims. (Cl. 257—208)



6. Apparatus for cheese making comprising an outer vessel, an inner vessel spaced from the outer vessel along the sides, ends and bottoms, said inner vessel having an outlet, a discharge conduit extending from the outlet through the outer vessel, a partition between the two vessels and spaced from their corresponding side walls and end walls, a reservoir having a capacity in excess of the space between the inner vessel and the partition, means for forcing water from the reservoir to the space inside the partition, and a return passage leading from the space outside the partition to the reservoir.

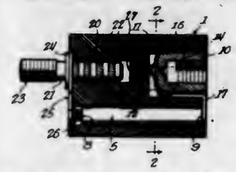
2,166,754
BRAKING APPARATUS
Burns Dick, Ferguson, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application May 4, 1938, Serial No. 205,893
15 Claims. (Cl. 188—78)

1. In braking apparatus, the combination of a support, a brake drum, a substantially 360 degree brake band adapted to have its ends expanded to engage it with the drum, actuating means for said ends, said band being of a rectangular cross section and of a uniform thickness throughout the major portion of its length, and a lever pivoted to the support adjacent one end of the band and connected to the band at a point intermediate the pivot and the other end of the band, said lever being capable of applying radial pressure to



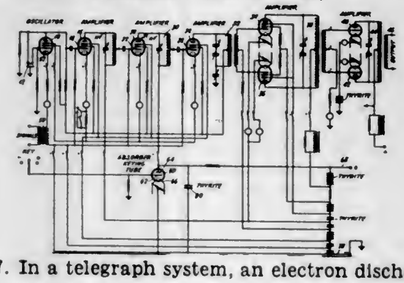
the band over a substantial arc thereof when the ends are actuated.

2,166,755
SPARK SUPPRESSOR RESISTOR
George M. Ehlers, Milwaukee, Wis., assignor, by mesne assignments, to Globe-Union Inc., Milwaukee, Wis., a corporation of Delaware
Application June 19, 1936, Serial No. 86,059
1 Claim. (Cl. 201—63)



A spark suppressor resistor comprising an insulating housing having a main portion in substantially cylindrical form and integral thereof a lateral extension of reduced cross-sectional area, an opening extending from end to end of said extension, a resistor in said opening substantially coextensive therewith, recesses extending from opposite ends of said main portion and terminating at spaced points to provide an insulating barrier therebetween, said recesses adapted to receive and securely engage anchoring portions of metal terminals, metal terminals held in said recesses, metal connectors secured to said terminals and extending to and overlying the ends of the openings through said extension, and a spring fitted between one of said connectors and one end of said resistor.

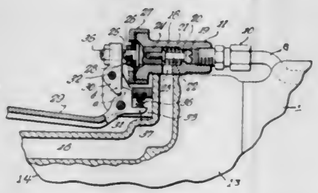
2,166,756
SIGNALING SYSTEM
James L. Finch, Patchogue, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application February 4, 1938, Serial No. 188,700
7 Claims. (Cl. 178—66)



7. In a telegraph system, an electron discharge

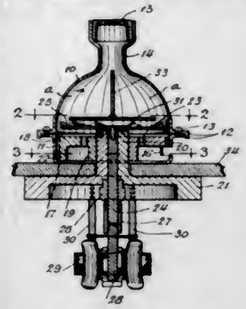
device having a plurality of electrodes, means for impressing wave energy on electrodes of said device, a utilization circuit coupled with electrodes of said device, a source of direct current potential, a keying tube having a controlling electrode connected with a source of keying potentials and having electrodes coupled to electrodes of said first named device and to said source of potential whereby the impedance of said first named device is controlled in accordance with the keying potentials on the controlling electrode of said second named tube, and means for protecting said second named tube from excessive voltages, comprising a non-linear resistance in shunt to a pair of electrodes thereof.

2,166,757
GRINDER AND CONTROL VALVE THEREFOR
Frithiof P. Forss, Aurora, Ill., assignor to Independent Pneumatic Tool Co., Chicago, Ill., a corporation of Delaware
Application March 3, 1938, Serial No. 193,669
1 Claim. (Cl. 51—170)



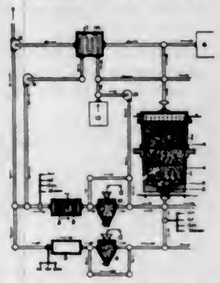
In combination in a portable power actuated grinding tool, an outer casing, an electric motor herein, a revoluble grinding element at the front end of said casing and driven by said motor, a handle member at the rear end of said casing, said handle member extending rearwardly from said casing and providing a recess at the junction of the handle member with the casing, means carried by the tool for conveying liquid to the grinding element to allay dust in the use thereof, said means comprising a passage-way for the liquid and a valve device in said passage-way for controlling the flow of the liquid therethrough, said passage-way having its supply section formed in the handle member and the connected portion of the outer casing with the outlet end of the supply section opening through the outer casing adjacent said recess, said valve device having a housing containing a bore extending therethrough and secured to the outer casing over the outlet end of the supply section of said passage-way with the rear end of the housing in said recess and facing the rear end of the handle member and a port in said housing connecting the bore between its ends with the outlet end of the supply section, a valve member slidably mounted in said bore and biased to a closed position against a seat in the bore forwardly of said port, a flexible diaphragm closing the bore at the rear end of the valve housing and operable on the valve member for opening the same, means for securing the marginal portion of the diaphragm in sealing relation to the housing and leaving the intermediate portion of the diaphragm exposed at the rear end of the housing, a bracket carried by the outer casing in said recess, and lever means fulcrumed on said bracket for opening the valve member through said diaphragm, said lever means having a grasping portion extending along and lying relatively close to the handle member to be grasped therewith.

2,166,758
PUMP
Oscar Franck, New York, N. Y.
Application December 16, 1936, Serial No. 116,099
1 Claim. (Cl. 103—97)



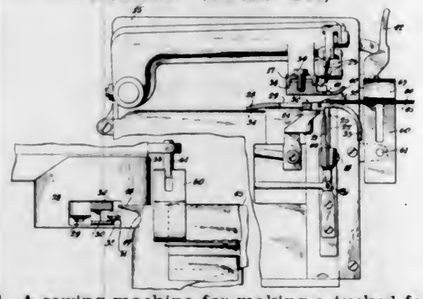
A pump comprising a circular casing having an outlet chamber and an upright outlet leading therefrom, and having an inlet slot in its peripheral wall, a bearing projection extending into said casing in axial registry with said outlet, a clamping member carried by said bearing projection exteriorly of said casing, a stationary apertured element carried by said projection within said casing and having an interrupted flange forming an opening adapted to register with said inlet slot, a driving shaft journalled in said bearing projection, an impeller carried by said shaft and rotatable thereby in a plane parallel with said element, a horizontal partition member in parallel proximity to said impeller at the inlet end of said outlet chamber provided with opposite site openings leading thereto, an upright partition member projecting from said horizontal partition member in approximate registry with the axis of said outlet whereby said outlet chamber is divided into two separate compartments, and a motor mounted on said clamping member and operatively connected with said driving shaft for operating the same and said impeller, said casing being rotatably adjustable at will relatively to said stationary element whereby said inlet slot is shifted relatively to the opening of said element to control the flow of liquid into the pump, and being clamped between said clamping member and stationary element so as to be held in adjusted position by friction.

2,166,759
METALLURGICAL PROCESS
William E. Greenawalt, Denver, Colo.
Application January 23, 1937, Serial No. 121,999
13 Claims. (Cl. 75—91)



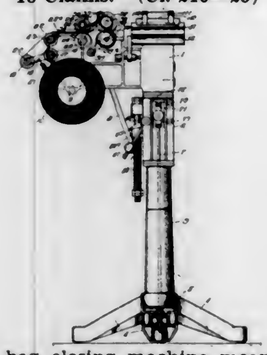
1. A process comprising, treating ore to remove the slimes from the sands, charging the sands in a quiescent mass on a gas permeable support in a stationary treating furnace, maintaining the exterior of the charge containing walls of the treating furnace cooler than the charge being treated, heating a reacting gas to the temperature of reaction with the ore outside of the furnace, and then passing the hot reacting gas through the gas permeable support and through the undisturbed mass of deslimed sands.

2,166,760
SEWING MACHINE
Louis Kaufman, Brooklyn, N. Y.
Application March 9, 1938, Serial No. 194,760
3 Claims. (Cl. 112—144)



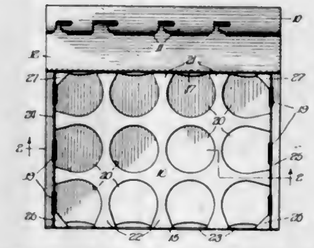
1. A sewing machine for making a tucked fabric product in which the tucks are each secured by a single row of stitches each row comprising stitching extending continuously along the under face of the fabric and visible on the front face between successive tucks as a plurality of spaced disconnected double strand loops, said machine having a work support, stitch forming mechanism having a pair of spaced needles including a hooked end and an eyed needle, means beneath the work support to carry and actuate the needles from the under side of the fabric, a tucking guide blade in advance of the needles over which the fabric is folded, a presser foot to compact the fabric and hold the same against the penetrating thrust of the needles and actuating mechanism to advance the fabric to the needles.

2,166,761
BAG SEALING MACHINE
William R. Kohl, Glen View, Ill.
Application April 7, 1937, Serial No. 135,383
18 Claims. (Cl. 216—25)



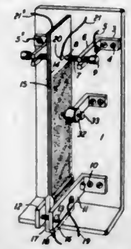
1. In a bag closing machine means for hermetically sealing the mouth of the bag comprising juxtaposed compression jaws co-acting simultaneously with a predetermined temperature in the jaws of said compression means adapted to cause a fusing of a dry thermoplastic adhesive coincident with the compression means to seal any object interposed between said jaws and the mouth of the bag by the combination of heat and pressure.

2,166,762
CARTON
Carl H. Lowe, Chicago, Ill., assignor to Self-Locking Carton Co., Chicago, Ill., a corporation of Illinois
Application July 10, 1937, Serial No. 152,985
4 Claims. (Cl. 229—29)



1. A carton of the type described, comprising front and rear walls, a bottom wall, an intermediate rigid non-rotatable egg-receiving wall having horizontally and longitudinally spaced openings and extending between and being connected to said front and rear walls, and cross partitions hingedly connected to said intermediate wall and to said front and rear walls, said cross partitions being rotatable into erect position and having means for engaging the wall structure of the carton for maintaining said partitions in erect position.

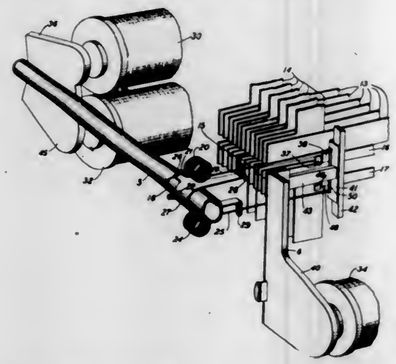
2,166,763
PIEZOELECTRIC APPARATUS AND CIRCUITS
Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application March 16, 1937, Serial No. 131,160
19 Claims. (Cl. 175—320)



1. Apparatus for repeating electrical impulses comprising a pair of input terminals between which an electromotive force may be impressed, an electrostatic capacity device electrically connected thereto to be charged electrostatically by the impressed electromotive force and responsive to an impressed electromotive force to cause a displacement of a portion of the device, a movable contact mechanically fixed with respect to the displaced portion so that its position is shifted by displacement of said portion, a second contact mounted adjacent said movable contact and adapted to be engaged by the movable contact, and means predesigned to control the rate of application of the effective electromotive force to the electrostatic device to predetermine the

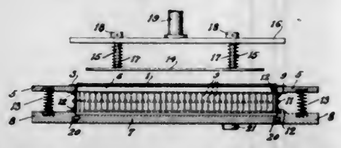
interval which elapses after impression of the electromotive force upon the input terminals before the engagement of the contacts.

2,166,764
SWITCHING MECHANISM
William H. Matthies, Hackensack, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 10, 1936, Serial No. 104,993
11 Claims. (Cl. 179—27.54)



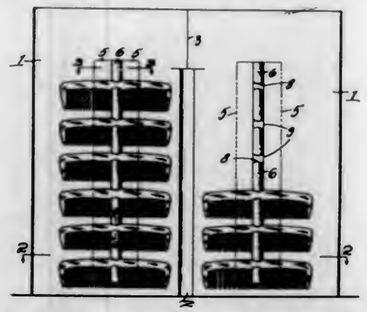
1. The combination in a switch of sets of contacts, a rotatable bar, two selecting fingers terminating in individual coils secured to said rotatable bar, means responsive to the rotation of said bar in one direction for advancing only one of the two fingers to its operative position and responsive to the rotation of said bar in the opposite direction for advancing only the other of the two fingers to its operative position, and means responsive to the movement of either of said two fingers for operating a corresponding set of contacts.

2,166,765
APPARATUS FOR APPLYING LININGS TO SHOE SOLES
Maury P. Medwick, Brooklyn, and Marvin Fox, New York, N. Y.
Application March 21, 1939, Serial No. 263,126
13 Claims. (Cl. 12—20)



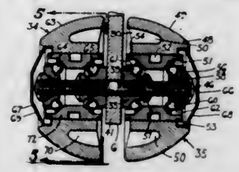
1. In an apparatus of the character described, a member provided with an opening through which a sole and attached sock-lining is adapted to be thrust, a base portion spaced from said member and adapted to receive the sole and lining after the same have been thrust through the opening, a wall portion connecting the member and the base, said wall being positioned to engage a marginal edge portion of the sock lining as it is moved from the opening to the base portion and fold it angularly with respect to the sole, said wall portion being collapsible inwardly, and means for moving the member toward the base portion to cause said wall portion to collapse inwardly and fold down the marginal edge portion of the sock-lining against one of the faces of the sole.

2,166,766
DISPLAY CARD
Harvey M. Owens, Leominster, Mass.
Application November 3, 1937, Serial No. 172,587
2 Claims. (Cl. 206—80)



2. As an article of manufacture, a display card and support for articles having a flat portion and having one or more projections, comprising a blank provided with a relatively long slot therethrough and a holder in one integral piece having a series of spaced channel-like projecting portions extending through the slot beyond the front face of the card, the adjacent channel portions having yielding spaced points projecting toward each other, said holder having opposite side projections fixed to the back of the card on opposite sides of said slot, whereby said yielding projections constitute a holding means for the flat portion of the article to hold it against turning, and said channels constitute compartments for receiving certain of said projections on the article, to hold the article.

2,166,767
ROLLER SKATE
Henri Pétermann, Tavannes, Switzerland, assignor of one-half to Paul Mathez, Woodside, Long Island, N. Y.
Application August 4, 1938, Serial No. 222,982
2 Claims. (Cl. 280—11.22)

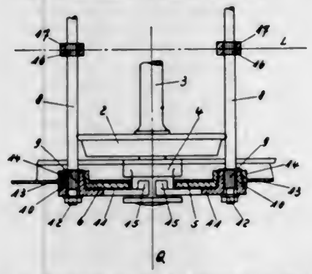


1. A roller skate, comprising an elongated support, a plurality of axles carried by said support, a pair of separate rollers carried by each axle, each roller comprising an outer rim member having a spherical bearing surface constituting a continuation of the spherical bearing surface of the other roller carried by the same axle, a ball bearing interposed between said rim member and said axle and comprising an inner ring fitting within said rim member and rotatable therewith, a sleeve mounted upon said axle, and a row of balls situated between said inner ring and said sleeve; said axle having a threaded portion; and a nut screwed upon said threaded portion and engaging said sleeve.

2,166,768
ALLOY
Arthur W. Peterson, North Attleboro, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts
No Drawing. Application December 2, 1938, Serial No. 243,529
5 Claims. (Cl. 75—165)

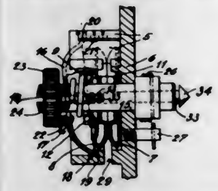
1. A gold alloy consisting of about 33 to 84% gold, 11 to 67% copper, 0.1 to 5% cobalt, and 2 to 12% of a metal selected from the group consisting of zinc and cadmium.

2,166,769
SPRING MECHANISM FOR RAILWAY VEHICLES
Karl Rabe, Stuttgart, Germany, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany, a corporation of Germany
Application March 12, 1936, Serial No. 68,436
In Germany March 19, 1935
16 Claims. (Cl. 267—57)



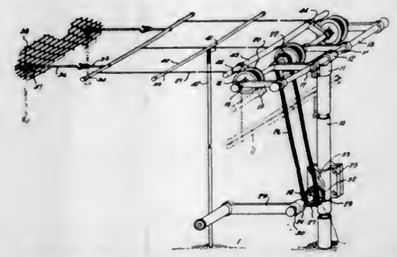
1. In a railway vehicle, a frame for supporting the vehicle, a pair of wheels, an axle therefor, journal means for connecting the wheel axle to the frame, torsion spring means mounted on the frame, connections supporting the frame from the journal means through said torsion spring means, damping means acting between said journal means and said frame, and means for adjusting said damping means, said means also serving to hold said torsion spring means in place.

2,166,770
TENSION DEVICE FOR SEWING MACHINES
Ramon Casas Robert, Geneva, Switzerland
Application June 29, 1938, Serial No. 216,435
In Denmark July 2, 1937
5 Claims. (Cl. 242—148)



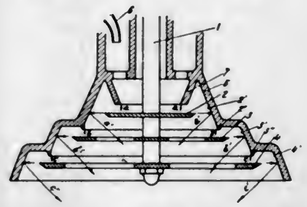
1. A device of the character described comprising a pair of friction plates through which a thread is adapted to pass so as to be maintained under tension, a spring for urging one of said plates toward the other, a shaft carrying both of said plates and said spring, a swinging cover plate having an aperture through which said shaft extends, a nut threaded onto said shaft and acting on said cover plate to swing the same against the action of said spring and to bring the spring under correct tension, said cover plate being pivoted at one peripheral point and provided with an extension at the opposite peripheral point, and means including a graduation arranged at said opposite peripheral point for indicating the position of said cover plate and the degree of tension on said thread.

2,166,771
CLOTHES HANGING APPARATUS
E. Cameron Robertson, Oklahoma City, Okla.
Application August 7, 1937, Serial No. 157,952
6 Claims. (Cl. 211—119.10)



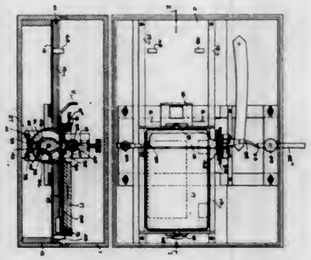
1. A clothes line hanging apparatus including, an upright ground support, a transverse head bar rigidly mounted on said support, a transverse support rotatably mounted on said head bar, a plurality of laterally-spaced reels mounted on the transverse support, means mounted on the supports for rotating the reels in common, clothes lines wound upon said reels, a transverse bar to which the free ends of said lines are attached, and means for detachably connecting the last named bar to a fixed support to hold said lines in clothes-hanging position.

2,166,772
ATOMIZER FOR LIQUIDS
Francisco Salsas-Serra, Paris, France
Application February 26, 1938, Serial No. 192,773
In France March 18, 1937
8 Claims. (Cl. 261—89)



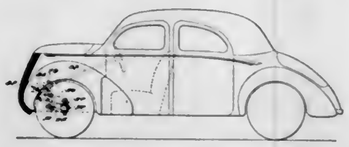
1. An atomizer for liquids comprising in combination a rotatable vertical shaft, at least two discs mounted on said shaft in spaced relation to each other, a stationary hollow body arranged coaxially to said shaft and spaced with respect to the peripheries of said discs, the topmost of said discs being solid, the other discs having a solid peripheral zone and being apertured between said zone and said shaft, means for supplying liquid to the top surface of the topmost disc, means to cause a gaseous medium to pass through said hollow body and said disc apertures, said hollow body having an interior surface widening towards the bottom at least in the portion opposite said topmost disc, said widening surface being so inclined as to reflect liquid particles centrifuged thereupon by said topmost disc substantially on the next lower disc.

2,166,773
RAZOR HONING APPARATUS
Frederick Schmid, Philadelphia, Pa., assignor of fifty per cent to Charles Romano, Philadelphia, Pa.
Application October 25, 1937, Serial No. 170,767
4 Claims. (Cl. 51—65)



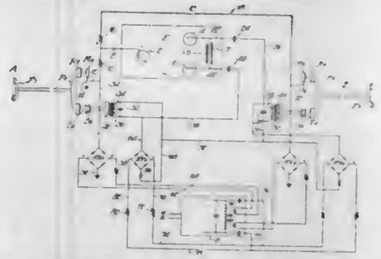
1. In a razor honing apparatus, in combination, a stationary base or platform having a pair of laterally spaced, longitudinally extending parallel tracks, a moving carriage fitted on said tracks and adapted for reciprocation therealong, a honing stone within said carriage and disposed with its honing surface in a substantially horizontal plane, and means for supporting a razor blade to be honed above said honing surface, said supporting means for the razor blade including a pair of laterally spaced axially aligned bearing pins respectively adapted to engage opposite extremities of the razor blade to support the latter for oscillation about an axis extending transversely across the reciprocating path of movement of the honing block, and means operative automatically upon reciprocation of said carriage to oscillate said blade about said axis to present opposite surfaces of the blade cutting edge in contacting relation to the honing surface.

2,166,774
FRONT WHEEL SUSPENSION
John Tjaarda, Birmingham, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application April 4, 1936, Serial No. 72,722
Renewed June 2, 1939
13 Claims. (Cl. 280—124)



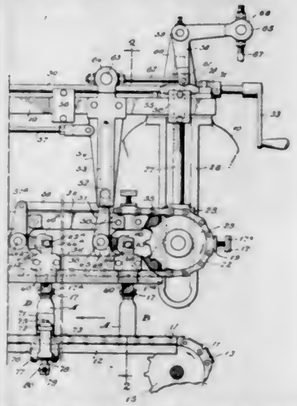
1. A wheel suspension for an automobile comprising a fixed transverse tubular frame member, tubular means located within the frame member and extending substantially continuously throughout the length of said member, oscillatable wheel suupporting members fixed to the opposite ends of said tubular means, resilient rubber bushings interposed between said tubular means and frame member, and a transverse torsion bar extending through said tubular means and joining said wheel supporting members.

2,166,775
ELECTRONIC AMPLIFYING COUPLER AND SYSTEM THEREFOR
Thomas W. Varley, Staten Island, N. Y., assignor, by mesne assignments, to Harry A. Richards, Stamford, Conn.
Application July 1, 1937, Serial No. 151,371
20 Claims. (Cl. 179—1)



1. An amplifying coupler for interconnecting two component sections of an electrical system adapted for two-way communication, comprising in combination, an electronic amplifier interconnecting both circuits of the respective sections, and means for causing the amplifier to operate alternately at a frequency above audibility upon the electrical waves passing through the system in opposite directions.

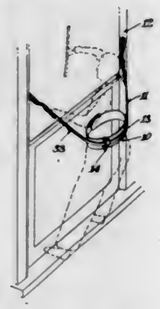
2,166,776
CONVEYER FOR LABELING MACHINES AND THE LIKE
George W. von Hofe, Bound Brook, and Franz J. Hammer, North Bergen, N. J., assignors to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application February 10, 1938, Serial No. 189,726
1 Claim. (Cl. 198—162)



The combination of a travelling support for conveying articles over a predetermined path, an endless carrier one run of which travels in spaced parallel relation to said support and in synchronism therewith, guide rails in spaced parallel relation to said one run of said carrier upon opposite sides thereof, said guide rails having oppositely disposed guide channels extending lengthwise thereof, guide plates fixed upon said carrier at spaced points and arranged to project into said guide channels and to be moved lengthwise thereof by said one run of said carrier, spring controlled clamping plates yieldingly

mounted on said guide plates for clamping said articles on said support, ribs extending lengthwise of said clamping plates along opposite sides thereof, releasing members slidably mounted in co-operating pairs at spaced points of said predetermined path and provided with oppositely disposed recesses for the reception of said ribs when said clamping plates arrive at said spaced points whereby said releasing members and said clamping plates are coupled together, and means for slidably operating all of said releasing members to concurrently shift the clamping plates coupled therewith relatively to said guide plates to inoperative positions.

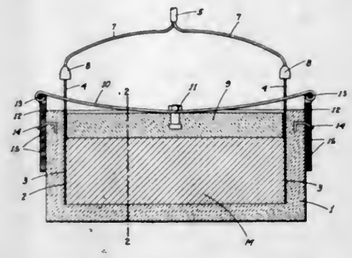
2,166,777
SAFETY BELT
William C. Walker, New York, N. Y.
Application February 13, 1939, Serial No. 256,074
7 Claims. (Cl. 227—49)



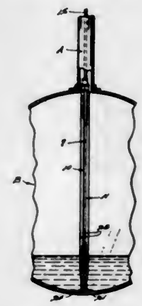
1. A safety belt of the class described comprising a belt portion for encircling the waist of the wearer, a plurality of spaced loop elements secured upon the outer surface of said belt portion, a supporting strap extending through and slidably engageable with said loop elements, anchoring means at the terminals of the strap, one of said loop elements constituting a stop member and comprising a base portion and a socket with a central passageway therethrough, a wedge member attached to the strap between said stop member and that terminal of the strap nearest thereto, said member comprising a wedge portion proportioned for entry and accommodation within said passageway and an abutment of greater height than the entrance to said passageway whereby it will be engageable with said stop member upon a movement of the strap therethrough to prevent a continued movement thereof, and an adjustable buckle at the opposite terminal of the strap and of greater proportions than the opening of the nearest of said loop elements whereby it will not be movable therepast.

2,166,778
ELECTRIC OVEN
Herman G. Worm, Sacramento, Calif.
Application June 10, 1938, Serial No. 212,989
5 Claims. (Cl. 219—35)

4. An electric oven comprising an initially open topped case, a presser bar slidably disposed in the case from its open end, the case and bar being of dielectric material, means to exert an inward pressure on the bar and a pair of electrode members disposed in the case at opposite ends thereof and arranged for connection with circuit wires; the electrode members comprising flat plates disposed in the case between the ends of the presser bar and adjacent ends of the case; each plate including a flat terminal post projecting upward above the case, the presser bar thus being removable from the case without interference by said plates and posts.

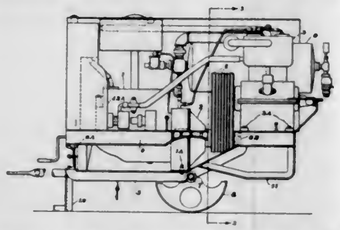


2,166,779
LIQUID GAUGE
Ole B. Arntzen, Seattle, Wash., assignor to Arntzen, Incorporated, Seattle, Wash., a corporation of Washington
Application February 23, 1935, Serial No. 7,765
Renewed June 14, 1939
9 Claims. (Cl. 33—126.4)



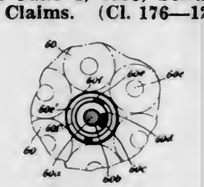
1. In a gauge for the purpose described, the combination with a pair of stuffing boxes and glands therefor, a glass tube having its opposite ends received in said stuffing boxes, laterally spaced apart guards overlying opposite sides of the tube and connecting the stuffing boxes, the lower of said glands being formed with a cylindrical bore operating as a valve chamber and communicating with the lower end of the tube, a block threaded into the outer end of said bore providing an admission port leading to the valve chamber, a spring-closing valve for said port providing a control stem extending axially through the block, means for elevating said stem to open the valve comprising a vertically movable setting arm overlying the side of the block and providing a horizontal leg extending under the block to engage the exposed end of the stem, means for locking the setting arm in its elevated valve-opening position, and rotary means movable through frictional contact with the floor of a liquid-containing tank with which the gauge is to be used for releasing said locking means to obtain a closing of the valve under the influence of the spring.

2,166,780
PORTABLE TRAIL COMPRESSOR
Theodore P. Flynn and Raymond E. Neils, Portland, Oreg.; dedicated to the free use of the People of the United States of America
Application October 25, 1937, Serial No. 170,800
1 Claim. (Cl. 230—211)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



In a portable air compressor assembly, a fan-cooled motor disposed on the forward end of the assembly, a compressor pump on the rearward end of the assembly, said pump being vertically off-set above and completely separated from the motor, removable belt and pulley means for driving said pump with said motor, and means deflecting cooling air from the fan of said motor to said pump.

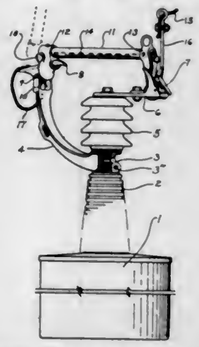
2,166,781
ELECTRIC LAMP
William Jameson Hitchcock, Scotia, N. Y.
Application June 4, 1936, Serial No. 83,571
4 Claims. (Cl. 176—122)



4. An electric lamp comprising an evacuated envelope having a wall at least partially permeable to light, a source of free electrons sealed in said envelope, and a radio frequency electric oscillator in said envelope having a coil coupled therewith and disposed between said source of free electrons and said wall, said coil developing a high voltage relative to said source of free electrons and being at approximately the same voltage as adjacent portions of said wall during its positive phase, said wall being provided with luminescent material exposed over an extensive area and in a substantially constant locality to the bombardment of electrons accelerated by the said voltage.

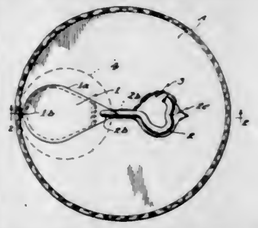
2,166,782
CIRCUIT INTERRUPTER
George N. Lemmon, Homewood, Ala., assignor to Southern States Equipment Company, Birmingham, Ala., a corporation
Application August 31, 1936, Serial No. 98,629
15 Claims. (Cl. 200—114)

1. In combination, in a circuit interrupter, an insulating bushing with a conductor therethrough, two conductive members borne by the said bushing and insulated from one another and spaced from one another by a gap, a tubular insulating container above the said bushing and spanning the said gap, and a fusible conductor within the said container and completing



the circuit between the said two conductive members.

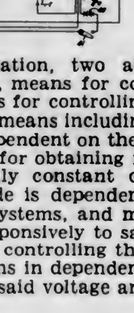
2,166,783
CAN CONSTRUCTION
Emil O. Munk, Chicago, Ill.
Application August 7, 1937, Serial No. 157,822
13 Claims. (Cl. 221—11)



1. In a construction permitting the opening of sealed container by a single forcible pull upon a protruding element attached to a portion of said container, the combination of a portion of a container having irregularly curved scoring formed therein defining a substantially pear-shaped tear strip having a pair of spaced apart sharply pointed ends in register with the longitudinal axis of said tear strip, a lever, integral shearing means on said lever, said shearing means being fixedly mounted in register with the pointed end of the narrowmost portion of said tear strip, substantially as set forth.

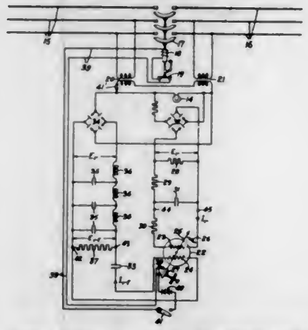
2,166,784
DEVICE FOR APPLYING AND ATTACHING TEAR-OFF CAPS TO BOTTLES
Erwin Pommer, Vienna, Austria
Application February 24, 1936, Serial No. 65,278
In Austria February 22, 1935
2 Claims. (Cl. 226—80)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

1. A cap placing device for capping machines and the line, comprising a conveyor belt for transporting the bottles to be sealed, a setting head adjustably mounted over said conveyor belt, a supply roller and a cooperating roller carried by said setting head, a delivery chute for the caps mounted beneath said rollers, stop fingers mounted at the discharge end of said chute for holding the caps passing through said chute in position for automatic removal by the passing bottles, a pair of rollers spaced from said stop fingers for slightly clamping the caps on the bottle necks, and guiding bands at each side of the



conveyor belt for holding the bottles in position when passing said fingers and said rollers.

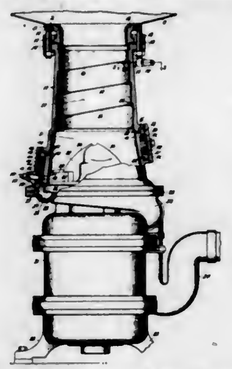
2,166,785
SYNCHRONIZING APPARATUS
Viktor Aigner, Berlin-Charlottenburg, Germany, assignor to General Electric Company, a corporation of New York
Application May 12, 1937, Serial No. 142,273
In Germany May 25, 1936
11 Claims. (Cl. 171—118)



1. In combination, two alternating current electric systems, means for connecting said systems, and means for controlling the operation of said connecting means including means for deriving a voltage dependent on the slip voltage of the systems, means for obtaining from said slip voltage a practically constant continuous current whose magnitude is dependent on the slip frequency of the systems, and means connected to be energized responsively to said slip voltage and said current for controlling the operation of said connecting means in dependence on the simultaneous values of said voltage and current.

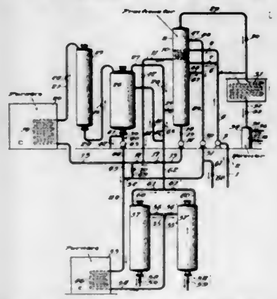
2,166,786
WASTE DISPOSAL APPARATUS
Adalbert Alexay, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 18, 1937, Serial No. 164,535
4 Claims. (Cl. 146—192)

1. In an apparatus for the disposal of waste material such as garbage and the like, a casing providing a substantially vertical axis round grinding chamber, a material admission passage opening into said chamber, means for comminuting material in said chamber including a substantially vertical axis material impelling device rotatable in said chamber and a plurality of stationary elements projecting from the walls of said chamber for cooperation with said rotatable device in the comminution of material, said elements being angularly displaced relative to each other about the periphery of said chamber, and means providing a substantially circular restricted opening for the passage of comminuted material



from said chamber, one of said elements being disposed with its lower end closely adjacent said opening and another of said elements being disposed with its lower end spaced substantially from said circular opening and its upper end extending above the level of the upper end of said one element.

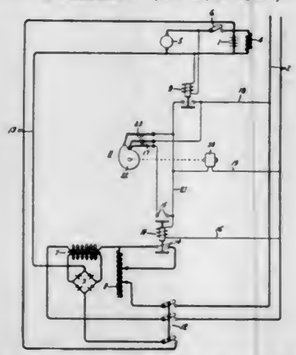
2,166,787
HYDROCARBON OIL CONVERSION
Joseph G. Alther, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application January 15, 1937, Serial No. 120,681
14 Claims. (Cl. 196—49)



1. In a process for the conversion of hydrocarbon oils wherein an oil, comprising essentially charging stock for the process and selected high-boiling fractions of the reflux condensate formed in the process, is cracked at cracking temperature and substantial superatmospheric pressure, thereby forming vaporous and liquid conversion products, the latter reduced to high-boiling residual oil by flash distillation, the vaporous products, including those resulting from said flash distillation, subjected to fractionation for the formation of reflux condensate, fractionated vapors of the desired end-boiling point condensed and resulting distillate recovered, the improvement which comprises commingling at least a substantial portion of said high-boiling residual oil with a regulated portion of said reflux condensate, passing the resultant mixture through a heating coil and quickly heating the same

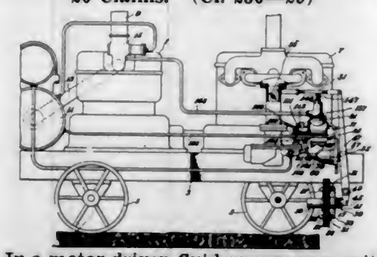
therein under independently controlled, non-coking conditions sufficiently to effect subsequent coking of its high-boiling components and appreciable cracking of its low-boiling components, introducing the heated material from the last mentioned heating step into an enlarged coking zone wherein vaporous and non-vaporous components of the heated mixture are separated and the latter reduced to coke without additional heating, and fractionating vaporous products of the coking step in admixture with the first-mentioned vaporous products.

2,166,788
CONTROL CIRCUIT
Ralph D. Amsden, Lynn, Mass., assignor to General Electric Company, a corporation of New York
Application August 31, 1938, Serial No. 227,768
2 Claims. (Cl. 171—314)



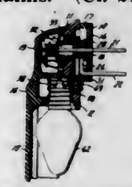
1. In combination, an alternating current supply circuit, a storage battery, a rectifier connected between said supply circuit and said battery for charging said battery with rectified current obtained from said supply circuit, an intermittently operated load device for said battery, a switch for connecting said battery to said load device, a relay connected to be energized when said load is energized and to be de-energized when said load is de-energized, a secondary relay controlled by the first-mentioned relay, said secondary relay being provided with means for increasing the charging current supplied by said rectifier to said battery, a timer provided with two sets of motor operated contacts one of which is normally closed and the other of which is normally open, said secondary relay being provided with a set of contacts which close when said secondary relay increases the charging rate of said battery and which contacts cooperate with the normally closed contacts of the timer to establish a holding circuit for said secondary relay and for completing an energizing circuit for said timer, said timer being arranged when in operation to close its normally open set of contacts for a predetermined time at the expiration of which it opens its normally closed set of contacts and immediately thereafter successively reopens its normally open contacts and recloses its normally closed contacts, the closing of said normally open timer contacts being arranged to maintain completed said holding and energization circuits independently of the position of said normally closed timer contacts whereby said secondary relay and said timer remain energized when the normally closed contacts of said timer open, said secondary relay and said timer being de-energized during the interval of time between the reopening of said normally open set of timer contacts and the reclosing of said normally closed set of timer contacts.

2,166,789
COMPRESSOR REGULATOR
Charles S. Baker, Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application May 12, 1938, Serial No. 207,438
20 Claims. (Cl. 230—29)



1. In a motor driven fluid compressor unit having a motor speed governor, a pressure responsive device to control and vary the speed setting of the governor upon variation of the discharge pressure of the compressor while the compressor is loaded, means to unload the compressor at a predetermined pressure and to reload the compressor at a predetermined minimum discharge pressure, means to lock said pressure responsive device at said predetermined discharge pressure of the compressor until said predetermined minimum discharge pressure is reached, and means to prevent variation of the governor speed setting by the pressure responsive device for a predetermined time after the discharge pressure reaches said predetermined minimum discharge pressure and the compressor has been reloaded.

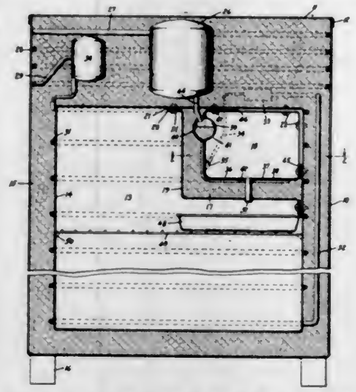
2,166,790
ELECTRICAL DEVICE
George B. Benander, Yalesville, Conn., assignor, by mesne assignments, to The Monowatt Electric Corporation, Providence, R. I., a corporation of Connecticut
Application June 12, 1936, Serial No. 84,885
15 Claims. (Cl. 240—73)



1. A unitary structure comprising a plug base having contact prongs, one of which is located centrally of the plug base and has an extension projecting to the rear thereof, a switch base rotatably mounted on the plug base, and switch mechanism mounted on the end of the prong extension actuated by turning movement of said switch base on the plug base.

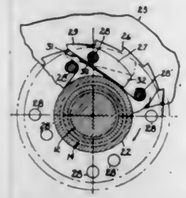
2,166,791
REFRIGERATOR
Harley H. Bixler, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application June 28, 1935, Serial No. 28,842
9 Claims. (Cl. 62—116)

1. A refrigerator comprising a heat insulated cooling compartment and a freezing compartment, an extended evaporator presenting a heat exchange surface of relatively large area for abstracting heat from said cooling compartment, a second evaporator for cooling said freezing compartment, means including a wall for preventing the circulation of air from said cooling compartment over the surfaces of said second evaporator, said wall being exposed to the air in



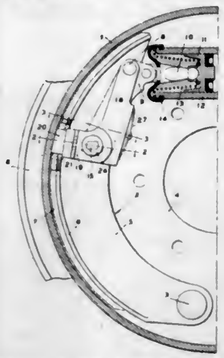
said cooling compartment and being arranged to limit the flow of heat from said cooling compartment to said second evaporator and to maintain the temperature of at least a portion of said wall close to and slightly less than the temperature of the remaining walls in said cooling compartment to localize the condensation of moisture on said portion of said wall.

2,166,792
HYDRAULIC TORQUE CONVERTER
Willy Black, Berlin-Halensee, Germany, assignor to General Electric Company, a corporation of New York
Application March 17, 1938, Serial No. 196,529
In Germany March 20, 1937
2 Claims. (Cl. 60—54)



1. In a hydraulic torque converter provided with a guide wheel, the combination of a ratchet device for effecting rotation of said guide wheel in only one direction, said ratchet comprising a stationary cam, pawls mounted on said guide wheel, pivots for said pawls located forward of the center of gravity of said pawls, leaf springs, anchor pins for supporting said leaf springs at one end arranged intermediate said pivot pins, said leaf springs being arranged to normally move the forward end of said pawls into engagement with said cam, the effect of said springs being overcome by the centrifugal force acting upon the unbalanced pawl whereby the pawl ends are prevented from riding over the cam surface during the rotation of said guide wheel and are moved inwardly, said inward movement being limited by said spring anchor pins respectively.

2,166,793
BRAKE SHOE CLEARANCE TAKE-UP MEANS
Werner F. Boldt, Overland, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application November 17, 1937, Serial No. 175,017
20 Claims. (Cl. 188—79.5)



1. In braking apparatus comprising cooperating friction elements one of which is rotatable, means tending to maintain predetermined clearance between said elements, said means comprising a part continuously in contact with the rotatable element and carried by the other element, and means associated with said part and the other element permitting predetermined relative movement therebetween and also permitting automatic adjustment therebetween as a result of wear of one of the friction elements.

2,166,794
COPPER-COBALT-BERYLLIUM ALLOYS
Gerald R. Brophy, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application November 27, 1936, Serial No. 112,999
1 Claim. (Cl. 148—32)

A precipitation hardened alloy containing 1.5% beryllium, 2.6% cobalt with the remainder copper.

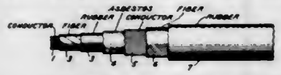
2,166,795
SINTERED HARD ALLOY FOR MACHINING HARD CASTINGS
Reinhard Chelius, Essen-Margarethenhohe, Germany, assignor to General Electric Company, a corporation of New York
No Drawing. Application March 28, 1939, Serial No. 264,590. In Germany September 1, 1938
3 Claims. (Cl. 75—136)

1. Sintered hard alloys containing from 0.5 to 3% vanadium carbide, from 0.25 to 1.5% molybdenum carbide, up to 8% auxiliary metal, such as cobalt, nickel or iron, single or in mixture with the remainder tungsten carbide.

2,166,796
INSULATED CONDUCTOR
Chester R. Colbree, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application February 10, 1937, Serial No. 125,074
2 Claims. (Cl. 174—107)

1. A concentric electric conductor comprising a central core having rubber insulation, a sheath of felted asbestos about said rubber insulation

and in contact therewith, concentric wires laid up about said asbestos sheath and readily mov-

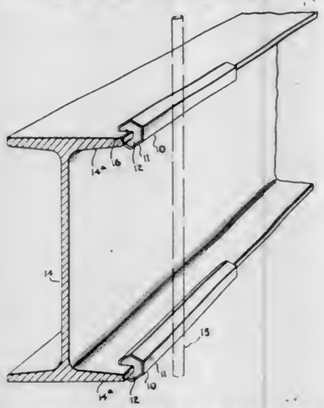


able thereon upon flexure of the concentric conductor, and a protecting insulating sheath about said concentric wires.

2,166,797
PROCESS OF FORTIFYING CEREAL PRODUCTS WITH MINERALS
Ferdinand A. Collatz, St. Paul, Minn., assignor to General Mills, Inc., a corporation of Delaware
No Drawing. Application August 17, 1938, Serial No. 225,444
2 Claims. (Cl. 99—83)

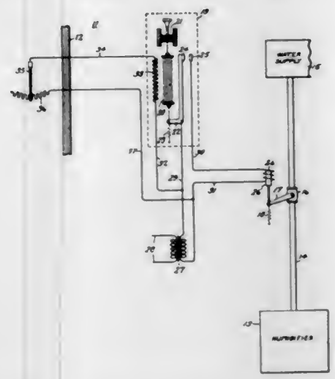
1. A process of fortifying cereals and cereal products with calcium and phosphorus which comprises mixing together a sufficient quantity of sodium acid phosphate and disodium phosphate to form a neutral mixture and then mixing the phosphates with finely precipitated calcium carbonate thereby forming a neutral mineral mixture having, in solution, a hydrogen-ion concentration of approximately pH 7.0, and then adding about .5%, by weight, of the mineral mixture to a cereal dough and mixing the mixture with the dough.

2,166,798
METHOD OF APPLYING GUARDS OR BUMPERS
Marcellin Côté, Akron, Ohio
Application July 17, 1937, Serial No. 154,256
1 Claim. (Cl. 18—59)



That method of molding elastic or resilient guards or bumpers on structural elements in situ, which comprises providing a continuous mold, said mold having a slit therein adapted to receive a portion of said structural element to which said guard is to be molded, filling said mold with self-curing or self-setting plastic rubber compound, and applying said filled mold to said structural element while said compound is in a pliable condition by engaging said portion of said element through said slit to become embedded in said compound, said engaging portion of said element thereby preventing escape of said compound through the slit to permit compaction of the compound within said mold as the compound is assembled on said structural element.

2,166,799
ADJUSTABLE HUMIDOSTAT
Harry R. Crago, Caldwell, N. J., assignor to General Electric Company, a corporation of New York
Application March 5, 1936, Serial No. 67,298
4 Claims. (Cl. 236—44)



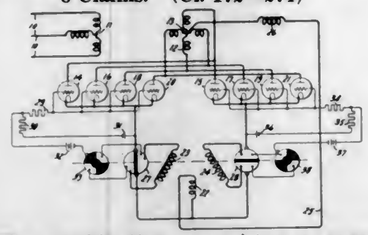
2. In combination, humidity control means normally operable in response to variations in the relative humidity of the air in a space from a predetermined value, and heating means for locally increasing the temperature of the air adjacent said relative humidity responsive means with respect to the temperature of the air in said space for varying the response of said humidity control means.

2,166,800
EXCAVATING STRUCTURE
Bernard C. Craig, Grand Rapids, Minn.
Application November 23, 1937, Serial No. 176,101
2 Claims. (Cl. 37—143)



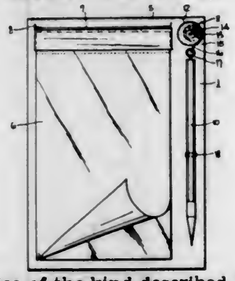
1. In an excavating structure substantially as specified, the combination of a blade-plate having a longitudinal apertured edge-portion, a cutting strip having an apertured edge-portion and a cutting edge and an apertured intermediate portion, a combined rigidifying and clamping strip having an apertured longitudinal edge portion spaced from the apertured edge portion of said blade-plate and having its opposite longitudinal edge-portion against and secured to said blade-plate, said cutting strip having its intermediate portion primarily or normally between the apertured edge of the blade-plate and the combined rigidifying and clamping strip, securing means normally or primarily extending through the apertures of said blade-plate and clamping strip and through apertures of the intermediate part of said cutting strip and being interchangeable in the apertures of the edge portion of the cutting strip so as to hold the latter in an extended position when desirable to compensate for wear and consequent narrowing of the cutting strip, and an abutment-strip adapted to be fitted between the blade-plate and the clamping strip and against the rear edge of said cutting strip when the latter is adjusted to its extended position, for the purpose specified.

2,166,801
DYNAMO-ELECTRIC MACHINE
Philip M. Currier, Ballston Spa, N. Y., assignor to General Electric Company, a corporation of New York
Application May 15, 1937, Serial No. 142,858
8 Claims. (Cl. 172—274)



1. The combination comprising a source of current, a dynamo-electric machine including a plurality of armature phase windings each provided with a switching device for periodically reversing the connections thereto in accordance with the speed of said machine, a plurality of controlled electric valves for transmitting unidirectional current impulses from said source to said machine, and means for controlling the conductivities of said valves in accordance with the speed of said machine.

2,166,802
ATTACHMENT FOR BOOKS
Irene M. Daly, New York, N. Y.
Application August 13, 1937, Serial No. 158,928
4 Claims. (Cl. 281—1)



1. In a device of the kind described, a plate arranged for positioning at the inner face of a book cover, means for removably holding the plate in position on the cover, said means being of an area substantially co-extensive with the plate so that an interposed book cover will be maintained against distortion, means upon the plate for removably holding a memorandum pad, and separate means for supporting a pencil upon the plate against movement relatively to the pad.

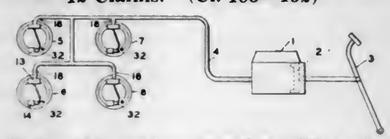
2,166,803
MOMENTARY CONTACT PUSH SWITCH
Frank C. De Reamer, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application July 29, 1936, Serial No. 93,237
2 Claims. (Cl. 200—159)

1. In an electric switch, a housing of insulating material, a sleeve secured to said housing, a member of insulating material clamped between said sleeve and said housing, recesses in said housing adjacent said member, terminals clamped



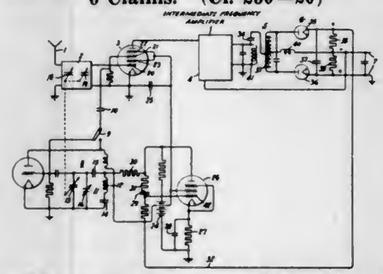
in said recess by said member, and a spindle guided in said sleeve and said member of insulating material carrying contacts cooperating with said terminals.

2,166,804
BRAKING SYSTEM
Burns Dick, Ferguson, Mo., assignor to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application March 11, 1937, Serial No. 130,237
12 Claims. (Cl. 188—152)



1. In a motor vehicle provided with a plurality of wheels, a brake for each wheel comprising a backing plate, a drum, a plurality of brake shoes cooperating with the drum and a plurality of intercommunicating fluid motors for operating the shoes, a source of fluid pressure connected to simultaneously operate all the fluid motors on all the brakes, valve means associated with each brake for disabling less than the total but at least one of the fluid motors thereof, and means for operating said valve means from the exterior of the backing plate.

2,166,805
CONTROL CIRCUIT
Robert B. Dome, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application April 28, 1936, Serial No. 76,789
6 Claims. (Cl. 250—20)



1. The combination, in a radio receiver having an adjustable element adapted to tube an input circuit of said receiver over a range of frequencies, an electron discharge oscillation generator having an adjustable element adapted to tune said oscillator over a corresponding range of frequencies, means to produce a beat frequency between received oscillations and oscillations produced by said oscillation generator, means including a mechanical connection of said adjustable elements for maintaining said oscillator fre-

quency different by a predetermined constant amount from the frequency to which said input circuit is tuned, means responsive to variations in said beat frequency to control the frequency of said oscillation generator, said last named means comprising an electron discharge device having electrodes connected to said oscillation generator, said electrodes having a predetermined impedance therebetween which cause an undesired variation of the difference between the frequency of said oscillator and the frequency to which said input circuit is tuned as said receiver is tuned over said range of frequency, and means for greatly reducing the effect of said predetermined impedance on the alignment between said oscillator and said input circuit tuning while permitting said last named means effectively to control the frequency of said oscillation generator.

2,166,806

PEANUT PRODUCT AND METHOD

Robert Newell Du Puis, Charles William Lenth, and John B. Segur, Chicago, Ill., assignors to Association of American Soap & Glycerine Producers, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application October 20, 1938, Serial No. 235,994
8 Claims. (Cl. 99—128)

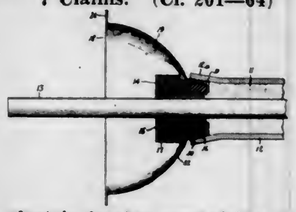
1. A composition of matter comprising finely subdivided peanuts and added free glycerine.

2,166,807

ELECTRIC HEATER

Fred J. Ewald, Jr., Elmhurst, Ill., assignor to Edison General Electric Appliance Company, Inc., Chicago, Ill., a corporation of New York

Application April 26, 1938, Serial No. 204,331
7 Claims. (Cl. 201—64)



1. An electric heater comprising a resistance conductor, a terminal secured to said resistance conductor, a metallic sheath encasing said resistance conductor and terminal, the end of said terminal projecting from the end of said sheath, an electrically insulating sleeve within said sheath surrounding said terminal in spaced relation with said terminal and said sheath, a protective cup having a section received in the space between said sleeve and sheath and an enlarged section flaring outwardly from the sheath and insulating sleeve, and vitreous sealing material within said sheath filling the space between the terminal and insulating sleeve, and also adhering both with the sheath and the section of said cup that is received therein so as to secure the insulating sleeve and cup to the sheath.

2,166,808

SURFACE COOLER

Albert O. Flindt, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application September 1, 1938, Serial No. 227,901
8 Claims. (Cl. 257—248)

4. A surface cooler including a support having an opening therein, a tube having a spiralled outwardly extending heat transfer element providing a plurality of adjacent heat transfer surfaces, said tube and said spiralled element extending through said support opening, and a spiral coil of resilient material arranged between adjacent sides of said heat transfer element extending substantially to the outer edge thereof in said support opening, said resilient coil being of substantially uniform depth and having a tapered side providing a relatively greater width at the outer edge than at the inner edge thereof.



5. A surface cooler including a support having an opening therein, a tube having a spiralled outwardly extending heat transfer element providing a plurality of adjacent heat transfer surfaces, said tube and said spiralled element extending through said support opening, and a tubular element of resilient material having a spiral groove formed in the inner side thereof and arranged about said heat transfer element, the outer surface of said tubular element extending over the outer edge of said heat transfer element and providing a resilient support therefor.

2,166,809

LIFESAVING ROPE AND BELT

Jack Frankel, Brooklyn, N. Y.

Application September 19, 1938, Serial No. 230,601
2 Claims. (Cl. 227—49)



1. In a device of the class described, a belt for engagement upon one's body, a hook attached to said belt, a depending rope extendable along a vertical surface upon which one desires to work, and a plurality of ring elements formed at spaced positions along the length of said depending rope and upon which said hook is adapted to be selectively engaged for connecting said belt to said rope to prevent one from falling while working on said vertical surface, said ring elements comprising simple overhand knots loosely formed at spaced positions along the length of said rope, and means for preventing said knots from being drawn tight under the pull of weights applied thereto.

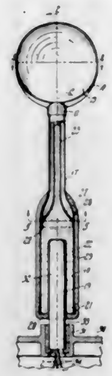
2,166,810

ICE CREAM SCOOP

John R. Gammeter, Akron, Ohio

Application January 4, 1936, Serial No. 57,551
5 Claims. (Cl. 107—48)

1. An ice cream scoop comprising a dish-shaped portion adapted to receive the ice cream and having an enclosed fluid chamber therein extending over a portion thereof, a hand-grip portion having an enclosed chamber therein adapted to contain a heat-responsive fluid, an intermediate portion having its opposite ends connected respectively with said dish-shaped portion and said



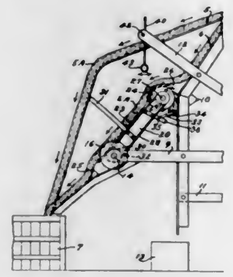
hand-grip portion and having a passageway therethrough communicating with the respective chambers to permit the flow of fluid therebetween, and a member having a passageway therein also communicating with the respective chambers, said member extending through said intermediate portion.

2,166,811

COTTON SAMPLE SELECTING DEVICE

George E. Gaus, Washington, D. C., assignor to Henry A. Wallace, Secretary of Agriculture of the United States of America and his successors in office

Application January 17, 1939, Serial No. 251,365
9 Claims. (Cl. 19—156)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In combination with a cotton condenser having means to separate cotton issuing therefrom into a plurality of continuous ribbon-like bats; a lint slide to guide one of said ribbons as a sampleable ribbon in a direction different from that of the remaining output of said condenser; means including the lint slide to alternately deliver portions of said sampleable ribbon to receptacles, one being a sample receptacle; and means to selectively separate said ribbon into portions for alternate delivery to said receptacles.

2,166,812

PROCESS FOR THE SEPARATION OF THE CONSTITUENTS OF ORGANIC MIXTURES CONTAINING BOTH RESIN ACIDS AND FATTY ACIDS, PARTICULARLY TALL OIL

Frederick H. Gayer and Charles E. Fawkes, Chicago, Ill., assignors to Continental Research Corporation, Chicago Heights, Ill., a corporation of Illinois

No Drawing. Application October 18, 1937, Serial No. 169,654
17 Claims. (Cl. 260—107)

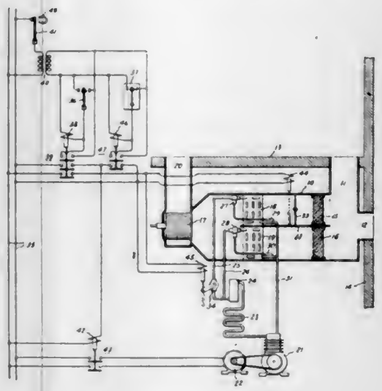
1. The process of separating fatty acids from resin acids, comprising esterifying the fatty acids, neutralizing the resultant mixture and treating the neutralized esterification mixture with two organic solvents and water, said solvents being substantially immiscible in each other and separable into two layers upon the addition of water, whereby the fatty acid esters are precisely dissolved in only one of the organic solvents.

2,166,813

AIR CONDITIONING SYSTEM

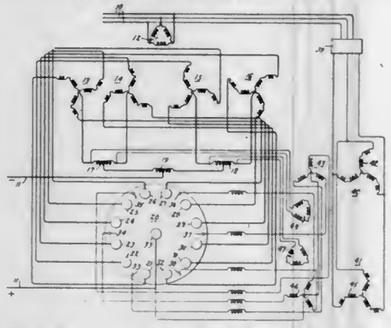
Hal Gibson, Dallas, Tex., assignor to General Electric Company, a corporation of New York

Application January 15, 1938, Serial No. 185,164
7 Claims. (Cl. 62—6)



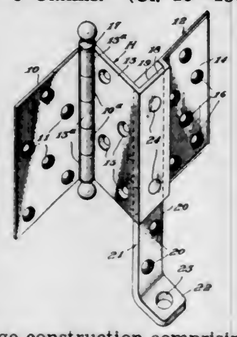
1. A system for conditioning the air within an enclosure including a duct, means for admitting air to said duct, means for circulating air through said duct and into said enclosure, means including two refrigerant evaporators arranged in said duct in parallel with respect to the path of the air circulating through said duct for cooling air circulating through said duct, means including a condensing unit and having a single refrigerant circuit for supplying liquid refrigerant to both said evaporators and for withdrawing gaseous refrigerant from both said evaporators, means responsive to the temperature of the air within said enclosure for controlling the supply of refrigerant to said envaporators, means for preventing the flow of air over one of said evaporators, means for preventing the flow of liquid refrigerant to said one evaporator, and means dependent upon a condition of the air admitted through said air admitting means to said duct for actuating said air flow preventing means and said refrigerant flow preventing means to remove said one evaporator from said refrigerant circuit and from the path of the air circulating through said duct.

2,166,814
EXCITATION SYSTEM FOR THIRD HARMONIC INTERPHASE TRANSFORMERS
Carl C. Herskind, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 1, 1938, Serial No. 217,091
4 Claims. (Cl. 175—363)



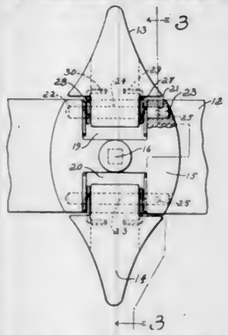
1. The combination comprising a source of alternating current, a transformer energized therefrom and having n pairs of star connected secondary networks, an inductive winding for each pair of said networks for interconnecting the neutral points thereof, a multi-anode single cathode electric discharge device interconnecting said polyphase secondary network windings with an output circuit, said electric discharge device being provided with a plurality of excitation anodes, n transformers provided with primary, secondary and tertiary windings, said secondary windings providing potentials out of phase with respect to each other and with respect to said source of alternating current for energizing said excitation anodes, and means including said tertiary windings connected directly across said first-mentioned inductive windings interconnecting the neutral points of said pairs of secondary polyphase networks for supplying third harmonic current thereto, said tertiary windings each comprising an open delta winding.

2,166,815
DOOR HINGE
Abraham L. Jones, Logansport, Ind.
Application December 1, 1937, Serial No. 177,561
Renewed January 27, 1939
8 Claims. (Cl. 16—137)



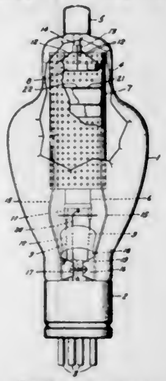
4. A hinge construction comprising a plate for fixed position, a door engaging and supporting plate of right angular formation pivotally connected with the first plate, and article supporting means carried by the right angular plate adjacent the apex thereof.

2,166,816
BUMPER GUARD
Robert C. Legat, New Britain, Conn.
Application March 14, 1936, Serial No. 68,810
3 Claims. (Cl. 293—55)



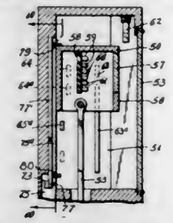
2. A bumper for automobiles comprising, in combination, a main transverse bumper member and a mounting member carried thereby, said mounting member having a notch therein having opposite side walls and an intermediate face, a vertically disposed auxiliary guard extending substantially beyond the main bumper member, means for rotatably supporting said guard on said mounting member including a hinge pin extending into the side walls of said notch, said guard having a face cooperating with the face of said notch for retaining said guard against rotation in one direction, and means yieldably accommodating rotation of said guard in the opposite direction.

2,166,817
ELECTRIC DISCHARGE DEVICE
Harold T. Maser, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 17, 1934, Serial No. 716,112
9 Claims. (Cl. 250—27.5)



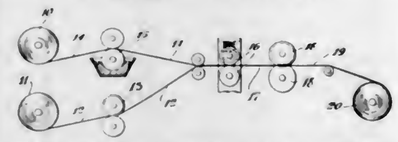
1. An electron discharge device including an envelope containing a thermionic cathode, an anode, and an electrostatic control element, an ionizable medium in said envelope at a pressure under operating conditions sufficient to support an arc-like discharge at the impressed voltages, said control element comprising a hollow member surrounding the discharge path between the cathode and anode and provided with only two perforated sheets positioned in the discharge path, the perforations in said sheets being of circular configuration and in effective alignment.

2,166,818
MOTOR DESIGN SIGN WITH ELECTRIC BULBS
Salvatore Miceli, Brooklyn, N. Y.
Application July 28, 1938, Serial No. 221,860
3 Claims. (Cl. 40—139)



1. A motor driven sign with electric bulbs, comprising a body having a plurality of cylinders with open sides, a piston in each cylinder viewable through said open sides and also having open sides adjacent said open side, means for reciprocating said pistons in a specific relationship with respect to each other, a green lamp mounted within a hollow top portion of each cylinder, a plurality of pairs of rows of differently colored bulbs mounted within each of said pistons and viewable through open sides, and a means for causing said green lamp to be continuously lit on each downward sttroke of each of said pistons, and for causing each pair of rows of differently colored bulbs to be successively lit upon the downward stroke of said piston.

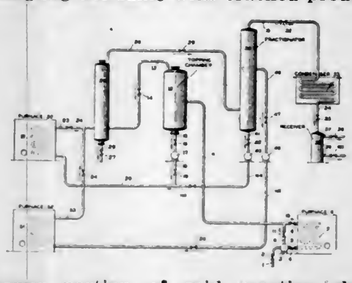
2,166,819
METHOD OF PRODUCING MULTILAYER RIBBON STRIPS
Bert C. Miller, Montclair, N. J.
Application January 4, 1936, Serial No. 57,477
2 Claims. (Cl. 154—40)



1. The method of producing multi-layer ribbon strips of uniform thickness—but which simulate a single thickness of material that has, on both faces, uniform lustre as well as decoration—which consists in decorating with lines of a non-fibrous, non-lustrous substance, one face of a layer of lustrous, translucent material and uniting said layer, with its decorated face innermost, to another layer of the same material as the first one with a film of flexible and translucent adhesive between the two layers; and then slitting the united layers, along the lines of decoration so as to leave decoration on the edges of adjacent strips.

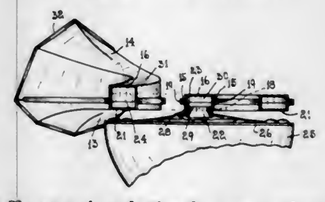
2,166,820
CONVERSION OF HYDROCARBON OILS
Jacque C. Morrell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Continuation of application Serial No. 56,690, December 30, 1935. This application January 8, 1938, Serial No. 184,010
3 Claims. (Cl. 196—58)

1. A process for converting hydrocarbon oils into high yields of gasoline, which comprises simultaneously and separately cracking light and heavy reflux condensates, formed as later described, each under independently controlled cracking conditions in a separate heating coil, introducing the resulting heated products into the lower portion of an enlarged vertically disposed reaction chamber, simultaneously and separately heating hydrocarbon oil charging stock for the process to a temperature below that at which any substantial cracking thereof will occur but sufficient to effect vaporization of its low-boiling components, separating the resulting vaporous and liquid components of the charging stock out of contact with cracked products formed in the process, supplying said liquid components for cracking to the same heating coil to which said heavy reflux condensate is supplied, supplying said vaporous components of the charging stock, without prior heating of the same to cracking temperature and without previously commingling the same with cracked products, to



the lower portion of said reaction chamber, therein commingling said vaporous components of the charging stock with the relatively hot vaporous components of the cracked products supplied to this zone, quickly removing liquid conversion products from the lower portion of the reaction chamber, passing the commingled vapors, at an active cracking temperature resulting from the heat contained in said vaporous cracked products, upwardly through the reaction chamber, thereby cracking said vaporous components of the charging stock in this zone, separately removing the resulting vaporous products from the upper portion of the reaction chamber, fractionating the same independently of said charging stock to form said light and heavy reflux condensates, condensing resulting fractionated vapors of the desired end-boiling point without further heating thereof and recovering the resulting distillate as said gasoline product.

2,166,821
TRAFFIC WARNING DEVICE
Peter Nielsen, Omaha, Nebr., assignor to Jubilee Manufacturing Co., Omaha, Nebr., a corporation of Nebraska
Application March 18, 1938, Serial No 196,698
1 Claim. (Cl. 181—27)



A traffic warning device for use under the hood of an automobile comprising a sound projector, said projector consisting solely of two integral

half portions each having a flared end and a comparatively restricted end, each said half-portion being of spiral contour in plan, said restricted ends being disposed approximately medially of their respective spirals, said portions being approximately C-shaped in cross section for providing a spiral-channel on each thereof, said channels each defining a convolution of not less than 360 degeres, each said half-portion being provided with a single integral flange disposed substantially half-way around its said restricted end and adjacent both of the longitudinal edges thereof, one of said flanges being substantially U-shaped in cross section providing a channel thereon, the other said flange being snugly disposed in said channel of said U-shaped flange providing a closed joint for securing said spiral channels together side by side and an air column between said spiral channels, said projector having an aperture adjacent the restricted end thereof, a sleeve having an end disposed through said aperture and secured to said projector, a sound box of circular contour in plan, and a cover for said sound box, said cover being removably secured axially of said sound box and provided with an opening, the other end of said sleeve being disposed through said opening and secured to said sound box for operatively interlocking said sound box and projector together, said opening being medially of said cover for disposing the major portion of said projector cooperatively within the plane of said circular contour of said sound box for permitting said box and said major portion to occupy a minimum of space under said hood, said projector being entirely composed of sheet metal.

2,166,822

SPRING SUSPENSION AND MOUNTING

Glenn H. Parker, Royal Oak, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application February 28, 1938, Serial No. 192,973

13 Claims. (Cl. 267—54)



1. A spring shackle comprising a pair of pivot members, a pair of links each comprising a section mounted on one of said members and having spaced plate-like side walls and a relatively movable section mounted on said other member and having a plate-like portion extending between said plate-like walls of said first-mentioned sections in spaced relation thereto, and relatively thin layers of yieldable material between and bonded to the adjacent surfaces of said plate-like portion and walls, respectively.

2,166,823

ELASTIC FLUID TURBINE NOZZLE

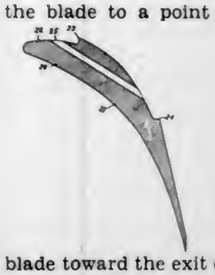
Otto Rosenlöcher, Berlin-Spandau, Germany, assignor to General Electric Company, a corporation of New York

Application September 1, 1938, Serial No. 228,032

In Germany October 19, 1937

3 Claims. (Cl. 253—78)

1. An elastic fluid turbine nozzle blade having a passageway extending therethrough from a point on the rear surface thereof toward the inlet edge of the blade to a point on the rear



surface of the blade toward the exit edge thereof.

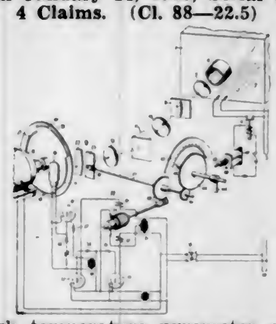
2,166,824

HIGH TEMPERATURE PYROMETER

Lewis R. Runaldue, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application January 14, 1936, Serial No. 59,081

4 Claims. (Cl. 88—22.5)



1. A high temperature pyrometer comprising a device responsive to radiant energy, means for segregating two separate wavelengths of received energy from the total wavelengths thereof and for applying them separately to said device and means responsive to said device for varying the relative amounts of energy of said segregated wavelengths applied to said device whereby said device makes the same response when subjected to either of said segregated wavelengths.

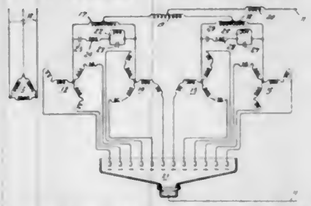
2,166,825

ELECTRIC VALVE CONVERTING SYSTEM

August Schmidt, Jr., Niskayuna, N. Y., assignor to General Electric Company, a corporation of New York

Application June 22, 1938, Serial No. 215,153

7 Claims. (Cl. 175—363)



1. In combination, a source of alternating current, a load circuit, an electric valve converting system interconnecting said circuit, said system including a plurality of polyphase networks each provided with a neutral point, a plurality of inductive windings interconnecting said neutral points, and resonant circuit means connected to said latter inductive windings for supplying thereto excitation components of a plurality of frequencies.

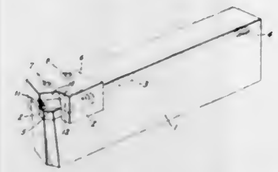
2,166,826

CHIP CONTROLLER AND BREAKER

Noble N. Shepherd, Detroit, Mich., assignor to Carboloy Company, Inc., a corporation of New York

Application December 10, 1936, Serial No. 115,157

7 Claims. (Cl. 29—96)



2. In combination, a tool comprising a shank and a cutting tip, said tip being mounted in a recess in said shank, a chip controller and breaker mounted on said shank and tip and having a hard metal face adapted to control the curling and breaking of a metal chip cut by said tip, one portion of said face being substantially at right angles with said shank, the remaining portion of said face forming an angle greater than 90° but less than 180° with said first mentioned portion.

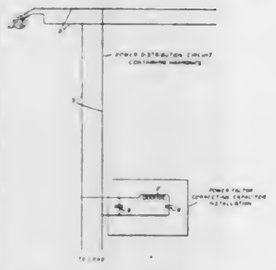
2,166,827

CAPACITOR CIRCUIT

John D. Stacy, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application May 11, 1938, Serial No. 207,274

7 Claims. (Cl. 171—97)



7. The combination with an alternating current power system of the type having a relatively low power factor power line containing a pronounced higher harmonic frequency voltage component of a capacitor installation connected in shunt with said circuit for correcting said power factor while substantially preventing any accentuation of the flow of current at said harmonic frequency in said circuit caused by the presence of said shunt capacitor installation comprising, a pair of parallel branch circuits each containing a capacitor, and a reactor connected in series in one of said branch circuits, the capacitance of said capacitors and the inductance of said reactor being so correlated that at the fundamental frequency of said circuit said parallel branches have a resultant capacitive reactance of a value sufficient to provide the desired correction of power factor of said circuit while at said harmonic frequency the branch containing said reactor has a resultant inductive reactance substantially equal to the capacitive reactance of the other branch.

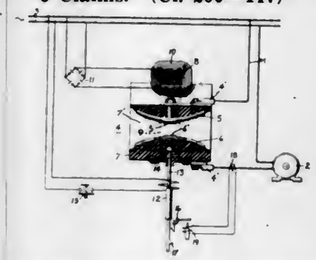
2,166,828

ALTERNATING CURRENT CIRCUIT INTERRUPTER

Fred L. Stone, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 28, 1938, Serial No. 216,271

6 Claims. (Cl. 200—147)



1. An alternating current arc interrupter comprising arc forming means for defining an arc gap, means for subjecting the arc in said gap to a unidirectional flux whereby said arc tends to oscillate with respect to said gap at a rate corresponding to the frequency of the arc current, and means for maintaining said arc in said gap substantially at constant length.

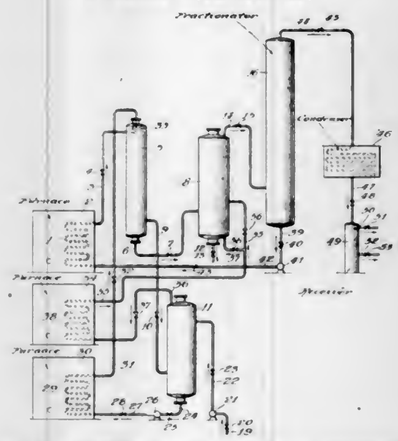
2,166,829

CONVERSION OF HYDROCARBON OILS

Kenneth Swartwood, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application December 11, 1937, Serial No. 179,288

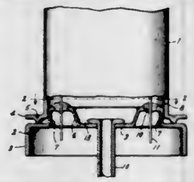
3 Claims. (Cl. 196—49)



1. In a process for the pyrolytic conversion of hydrocarbon oils wherein reflux condensate, formed within the system as hereinafter set forth, is cracked at cracking temperature and superatmospheric pressure, resultant vaporous and liquid conversion products separated and the latter appreciably further vaporized in a zone of substantially reduced pressure relative to that at which they are formed, the improvement which comprises commingling hydrocarbon oil charging stock for the process with said vaporous conversion products following separation of the latter from said liquid products and while they are still in heated state, thereby effecting substantial vaporization of the charging stock, heating the re-

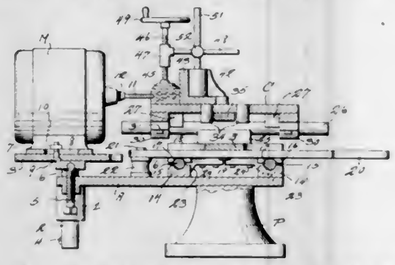
maining unvaporized components of the charging stock to an independently controlled cracking temperature, commingling the resulting heated products with the heated products of the first mentioned cracking operation, prior to said separation of the latter into vaporous and liquid components, heating the vaporized components of the charging stock and the components of said vaporous conversion products which remain uncondensed by contact with the charging stock to an independently controlled cracking temperature, introducing the heated products of the last mentioned cracking operation into said zone of substantially reduced pressure, removing vaporous products from said zone of substantially reduced pressure, fractionating the same to form said reflux condensate which is supplied to the first mentioned cracking operation, condensing fractionated vapors of the desired end-boiling point, and recovering the resulting distillate.

2,166,830
METAL RADIO TUBE
Harry L. Thorson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 14, 1937, Serial No. 153,541
8 Claims. (Cl. 250—27.5)



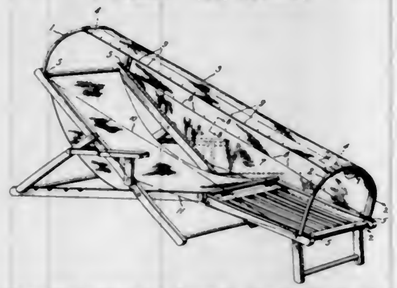
1. An electron discharge device comprising a cylindrical shell containing an electrode, a metal disk header welded at its periphery to the shell, an evacuating tubulation secured to the header, said header being provided with an annular depression of substantial depth, and a seal for leading-in conductor located in a wall of said depression.

2,166,831
WOODWORKING MACHINE
Carl Wazac, Sr., Lost Nation, Iowa
Application April 12, 1938, Serial No. 201,607
3 Claims. (Cl. 144—84)



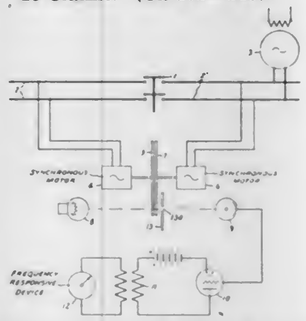
1. A wood working machine comprising a platform, upstanding blocks carried by the platform, parallel track bars fixedly mounted upon the blocks, a carriage, bearing members depending from the carriage and freely engaging the track bars to allow the carriage to be moved lengthwise of the track bars, a lever pivotally connected to the platform at one side of the track bars and extending across said track bars beneath the carriage, spaced lugs depending from the carriage between which the lever is directed so that the carriage may be moved in either direction lengthwise of the track bars upon proper swinging movement of the lever, a second carriage mounted upon the first carriage for movement in a direction substantially at right angles to the path of travel of the first carriage as determined by the track bars, means for moving said second carriage in opposite directions, and holding means carried by the second carriage.

2,166,832
SUNSHADE ATTACHMENT FOR DECK CHAIRS AND THE LIKE
Henry Wenker, Elizabeth, N. J.
Application April 25, 1939, Serial No. 269,828
1 Claim. (Cl. 135—5)



In a sunshade attachment for deck chairs and the like the combination with a chair frame of a sunshade comprising an upwardly arched frame detachably mounted on the chair frame close to the rear end of the chair, a similar frame detachably mounted on the chair frame close to the front end of the chair, an elongated rectangular fabric sheet disposed across said frames, and means slidably securing two opposite edges of said sheet to the frames.

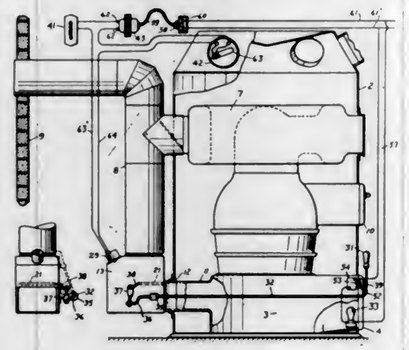
2,166,833
SYNCHRONIZING APPARATUS
Maurice Wilfart, Paris, France, assignor to General Electric Company, a corporation of New York
Application February 26, 1937, Serial No. 128,033
In France March 11, 1936
16 Claims. (Cl. 172—245)



1. In combination, two alternating-current circuits, means connected to be energized from said circuits for producing an effect dependent on the difference between the frequencies of the electromotive forces of the circuits, means controlled by said producing means for effecting the flow of a periodic current, the frequency of which

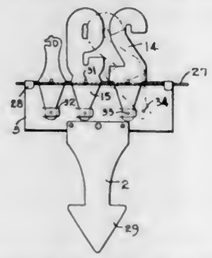
is a multiple of the frequency difference of the electromotive forces of said circuits, and frequency responsive means connected to be energized by said periodic current.

2,166,834
DRAFT CONTROL FOR FURNACES
Arthur John Wiltshire, Euclid, Ohio
Application August 25, 1938, Serial No. 226,803
17 Claims. (Cl. 110—147)



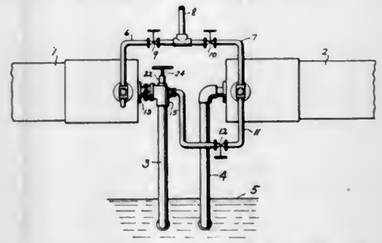
1. In a heater having a fire box and an ash pit therefor and communicating therewith, a damper box open to the atmosphere and communicating with said ash pit, a main flue pipe leading directly from the damper box to the chimney, a heating drum leading from the fire box to said main flue pipe and said chimney, a pair of dampers movable into one position to close direct communication between said damper box and said main flue pipe when the ash pit door is closed and when draft air is required during normal furnace operation, so that the flow of draft air will be through said damper box to the ash pit and to said heating drum and chimney, and movable into another position so that when the ash pit door is open the flow of draft air will be from the ash pit through said damper box into said main flue pipe and around said heating drum to said chimney for ventilating said ash pit.

2,166,835
DISPLAY DEVICE
Elliott S. Yancey, Houston, Tex.
Application November 30, 1934, Serial No. 755,435
2 Claims. (Cl. 40—5)



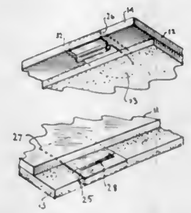
2. The combination of a display character and a supporting holder, in which the character is constructed with a tongue formed with a depression, a pivot connection between said tongue and said support and spring means on the support including a lug which fits into the aforesaid depression to retain the character in position.

2,166,836
SUCTION LINE CONNECTION FOR SLUSH PUMPS
Arthur J. Penick, Kirby T. Penick, and Reuben F. Davis, Houston, Tex.; said Davis assignor to Arthur J. Penick and Kirby T. Penick
Application March 8, 1937, Serial No. 129,548
2 Claims. (Cl. 103—10)



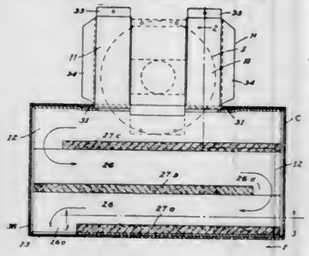
1. In combination two pumps, each having a suction line and a discharge line, a union having a swiveling connection with the intake connection of one pump and into which the corresponding suction line is connected, valve means within the union whereby the corresponding suction line may be opened or closed, a discharge line leading from the other pump and being connected into said union in axial alignment with said intake connection.

2,166,837
PROTECTIVE PAD
Solomon Ash, Bronx, N. Y.
Application March 9, 1939, Serial No. 260,721
4 Claims. (Cl. 45—68.4)



4. In a protective pad for tables or the like, a plurality of pad sections having overlapping flanges, each pad section comprising a plurality of plies united to form a firm protective body and a flange along an edge of said body formed of fewer plies than said body, interlocking means at the overlapping flanges of adjacent pad sections comprising one or more plates of a substance materially stronger than the substance of said plies clamped between the plies of the body portion of each pad section for interlocking adjacent pad sections, each of said plates having an interlocking member projecting over the flange of the section, the interlocking member of a flange of one section having therein an elongated interlocking groove extending substantially parallel to the edge of said section, the cooperating interlocking member of the adjacent section having an interlocking projection fitting into said interlocking groove and locked in said groove against lateral and longitudinal motion.

2,166,838
SOUND REPRODUCING SYSTEM
Roy S. Anderson, Rochester, N. Y., assignor to The Stromberg-Carlson Telephone Manufacturing Company, Rochester, N. Y., a corporation of New York
Application April 13, 1938, Serial No. 201,798
7 Claims. (Cl. 181—31)



1. A sound damping structure for use in a sound reproducing system comprising a casing having an inlet opening and an outlet opening therein, said casing including an inner section and an outer section each comprising sheet material and with a portion of one section in superimposed relation to a portion of the other section adjacent said inlet opening, partitions of sound damping material arranged in staggered relation in said casing defining a circuitous channel from said inlet opening to said outlet opening, and a loudspeaker housing formed from a sheet of material and having at least one passage therein, said housing having flaps integral therewith retained between said portions to bring said passage and said channel in communicating relation.

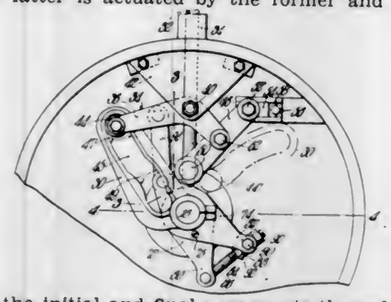
2,166,839
PROCESS FOR HEAT TREATING SPHEROIDIZED STEEL
William J. Conley, Rochester, N. Y., assignor to E. Phelps Langworthy, Rochester, N. Y.
Application February 23, 1938, Serial No. 191,915
2 Claims. (Cl. 148—21.5)



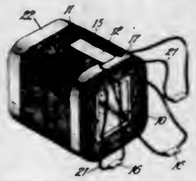
1. The process of treating spheroidized steel which consists in heating the steel to a temperature between 1100° F. and 1400° F. and holding the steel at such temperature for approximately three hours, thereby to cause the large carbide particles to disintegrate into particles substantially smaller than the original large carbide particles.

2,166,840
VALVE OPERATING MECHANISM
David D. Goldberg, Springfield, Mass., assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass., a corporation of Massachusetts
Application February 14, 1938, Serial No. 190,453
12 Claims. (Cl. 74—22)

1. Operating mechanism for a valve or the like having a spindle adapted for reciprocation and rotation comprising, a rotating lever secured to said spindle, a rotatable nut mechanism threadedly engaging said spindle, an operating member movable in a straight line, operative connections between the operating member, rotating lever and nut mechanism adapted and arranged whereby the latter is actuated by the former and during the initial and final movements thereof said rotating lever is held against rotation while said nut mechanism is operated to reciprocate said spindle without rotation thereof and intermediate which it is rotated.



2,166,841
COIL
Arni Helgason, Wilmette, and Peter E. Keegan, Chicago, Ill., assignors to Chicago Transformer Corporation, Chicago, Ill., a corporation of Illinois
Application April 22, 1938, Serial No. 203,640
5 Claims. (Cl. 175—21)

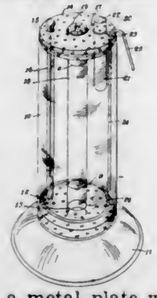


5. In an electrical coil, a plurality of wire turns forming a part of said coil and a stranded lead integral with and composed only of said coil wire, said lead having the coil wire extending back and forth continuously in successive sections from one lead end to the other lead end with the wire sections lying along each other to form a heavy stranded lead and means separate from the single wire joining the lead and coil proper for anchoring a portion of said lead on said coil.

2,166,842
APPARATUS FOR DETERMINING THE SPECIFIC GRAVITY OF LIQUID MEDIA AND THE PROTEIN CONTENT OF BLOOD
Benjamin M. Kagan, Baltimore, Md.
Application October 19, 1937, Serial No. 169,793
2 Claims. (Cl. 73—51)

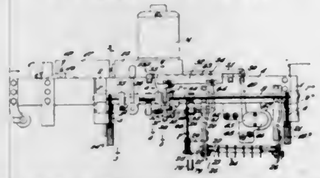
1. In an appparatus of the character described, a base, a cylindrical container mounted on said base, a transparent tube adapted to contain an oily composition and centrally disposed within said cylindrical container, two resilient discs one disposed in the bottom and one in the top of said cylindrical container in both of which the central tube is fixed, one or more tubes for liquid medium extending from said top disc partway into said cylindrical container, a thermometer and a stirring rod passing through said top disc and extending downwardly into said container, means for collecting liquid medium of known

quantity and for discharging a drop thereof of known size into said centrally disposed tube comprising a rigid block containing a screw which



operates upon a metal plate which in turn operates upon a hollow rubber tube or bulb into which bulb a pipette fits.

2,166,843
TEXTILE APPARATUS
Sebastiano Magnano, Andover, Mass., and William G. Abbott, Jr., Milford, N. H., assignors to Magnano Corporation, Lawrence, Mass., a corporation of Massachusetts
Application January 19, 1938, Serial No. 185,716
22 Claims. (Cl. 28—41)



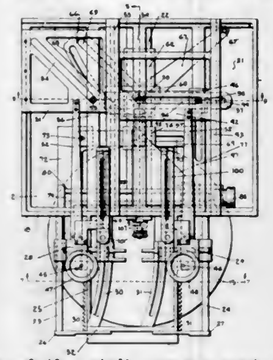
1. A machine of the class described including a magazine carriage provided with wire delivery means, warp separating and positioning means, and driving means including a clutch and a clutch release member, characterized in having means including a normally moving part for actuating the clutch release member and in having means which moves into the path of said normally moving part upon failure of the wire delivery means to place a wire in position for engagement by the warp, thereby to transmit movement of said normally moving part to the clutch release member and thus stop the machine.

2,166,844
METAL ALLOY
Vincent T. Malcolm, Indian Orchard, Mass., assignor to The Chapman Valve Mfg. Co., Indian Orchard, Mass., a corporation of Massachusetts
No Drawing. Application October 20, 1937, Serial No. 170,024
1 Claim. (Cl. 75—126)

As a new product, an alloy steel of high creep strength resistant to the action of gases and acids at high temperatures and pressures including, from 8 to 10% chromium, from 1 to 2% silicon, from 1.5 to 1.75% tungsten, from .15 to .50% carbon, from .40 to .60% manganese, from .50 to .70% molybdenum, from trace to .05% phosphorus, from trace to .05% sulphur, and the balance iron.

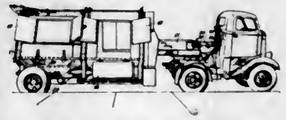
2,166,845
CALCULATING MACHINE
William F. Martin, Amarillo, Tex.
Application October 5, 1936, Serial No. 104,007
37 Claims. (Cl. 235—61)

1. A calculating machine of the class described comprising a chart table adapted to receive an orifice meter chart, styli movably related to the chart table, a multiplying member responsive to



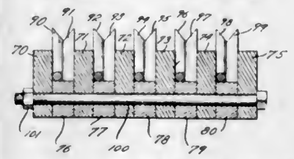
movements of the styli, square root extracting means actuated by said multiplying member, and a counting device engaging the chart table and actuated thereby.

2,166,846
AUTOMATIC TRAILER CONSTRUCTION
James B. McCalley, New York, N. Y., assignor to Barry Automatic Trailer Inc., New York, N. Y., a corporation of New York
Application August 2, 1937, Serial No. 156,844
7 Claims. (Cl. 214—67)



1. In a motor vehicle embodying an engine and a power take-off gear mechanism, a vehicle body comprising top, bottom, side and end walls, doors in the top and side walls thereof, threaded shafts within said body adjacent the top and bottom walls thereof, traveler nuts on said shafts, a plate supported on said nuts and disposed within said body parallel the end walls thereof, a pair of threaded shafts mounted on said body adjacent the bottom thereof, traveler nuts on said last named shafts, a floor plate mounted on said nuts and disposed parallel the floor of the body over an opening therein, driving connections from said power take-off gear mechanism to the first and second named shafts and a clutch between said power take-off gear mechanism and said driving connections for the control of either the first or second named shafts.

2,166,847
WIRE CLAMP
Joseph E. Miller and Paul L. Osweiler, Oak Park, Ill.
Application September 27, 1937, Serial No. 165,863
4 Claims. (Cl. 24—28)



4. In a concrete pipe having helically wound wire reinforcement, a clamp for maintaining a

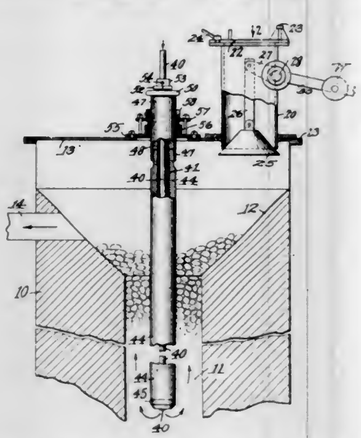
wire end comprising a base block having a smooth face, and a plurality of spaced solid members extending upwardly from the base block on opposite sides of a tortuous path, said members being staggered with respect to each other, each member having a front face which is rounded perpendicular to the height of the member and forming part of the channel boundary for the wire, the curvature on the face being substantially sharper than the curvature of the wire due to the spacing of the members, each member also having the face cut away to form a taper toward the rear of the member.

2,166,848
PANEL DAMPING STRUCTURE
Theodore M. Prudden, Hingham Center, Mass.
Application February 6, 1937, Serial No. 124,426
5 Claims. (Cl. 154—44)



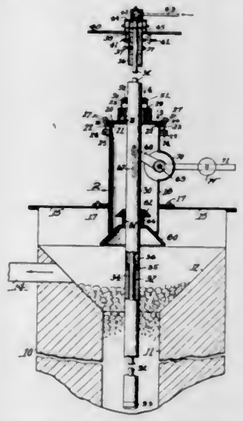
1. A panel structure comprising the combination of a vibratory panel, a plurality of leaves attached to said panel and having free ends arranged to be set into motion by the vibration of said panel whereby to damp such vibration.

2,166,849
OIL-FEEDING DEVICE FOR GAS GENERATORS
Walter C. Slade, Providence, R. I., assignor to Fuel Research Development Corporation, Boston, Mass., a corporation of Massachusetts
Application June 14, 1937, Serial No. 148,167
3 Claims. (Cl. 48—72)



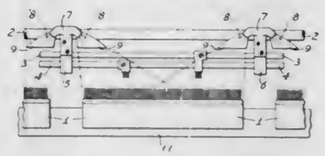
1. In a gas generator having a stack with a vertical central passage forming a gas generating retort and having means to feed solid fuel to the upper end of said passage, that improvement in an oil feeding device for said gas generator which comprises an inner oil-conducting pipe, an outer metal pipe loosely enclosing said inner pipe, means to secure said pipes in said generator, a sleeve of heat-insulating material of substantial thickness enclosing the lower portion of said outer pipe, a heat-insulating covering for the upper portion of said outer pipe, and means to hold said sleeve and covering in position on said outer pipe.

2,166,850
FUEL-FEEDING APPARATUS
Frederick T. Snyder, Brookline, Mass., assignor to Fuel Research Development Corporation, Boston, Mass., a corporation of Massachusetts
Application June 14, 1937, Serial No. 148,166
1 Claim. (Cl. 48—86)



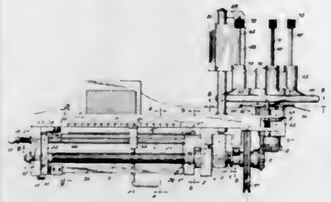
In a gas generator having a stack with a vertical central passage forming a gas generating retort and having means to feed solid fuel to the upper end of said passage, that improvement in an oil feeding device for said gas generator which comprises an oil feed pipe extending downward a substantial distance into the fuel mass, a fireclay casing for the lower part of said feed pipe, an outer pipe mounted above said casing and supported thereby, and a filling of heat-insulating material between said feed pipe and said outer pipe.

2,166,851
KNITTING MACHINE
Arnold Friedrich Verbeek, Wustenbrand, Germany, assignor to Kalio, Inc., New York, N. Y., a corporation of New York
Application September 22, 1937, Serial No. 165,115
In Germany October 16, 1936
6 Claims. (Cl. 66—82)



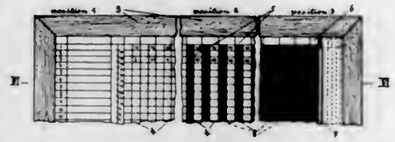
1. In a flat full-fashioned knitting machine having knitting devices including a needle series, and certain machine parts including a narrowing frame located substantially over the needles, an electric lighting system which comprises supporting means on the machine, a light source supported thereon above the needles in close proximity thereto and substantially in a vertical plane passing through the needle series to provide a direct evenly distributed illumination of the needle series unobstructed by said certain parts.

2,166,852
MANUFACTURING ELECTRICAL CONDENSERS
Felix Weiss, New York, N. Y., assignor to Cornell-Dubilier Corporation, New York, N. Y., a corporation of New York
Application June 6, 1936, Serial No. 83,875
7 Claims. (Cl. 242—56)



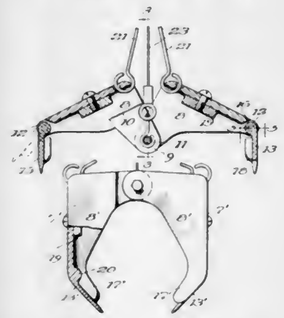
1. A winding machine comprising a driving shaft, a rotary support, a plurality of winding mandrels journaled in said support and arranged to be consecutively coupled with said shaft by rotation of said support, means for locking said support in the coupling positions of said mandrels with said shaft, a driving member and releasable coupling means therebetween and said shaft, means for manually engaging said coupling means to start rotation of said shaft, a locking member connected with said coupling means having a catch adapted to engage a trigger and hold said coupling means in engaged position against the action of a spring, a threaded extension of said driving shaft, a semi-cylindrical nut cooperating with said extension and arranged to move along the same during rotation, an adjustable stop member having an index, fixed calibrating scale means adjacent to said stop member, said stop member adapted to release said catch when engaged by said nut to disengage said coupling means, and further means including a resilient mounting for said nut controlled by said locking member whereby said nut is normally disengaged from said extension and engaged therewith upon rotation of said shaft and whereby said nut is again disengaged from said extension and returned to its initial starting position upon release of said coupling means.

2,166,853
DEVICE FOR RECEIVING WRITTEN AND GRAPHIC MATTER
Eugen Ammann, Hamburg, and Gustav Christian Friedrich Meissner, Hamburg-Altona, Germany, assignors to the firm of Schacht & Westerich, Hamburg, Germany
Application April 22, 1938, Serial No. 203,706
In Germany April 30, 1937
3 Claims. (Cl. 35—24)



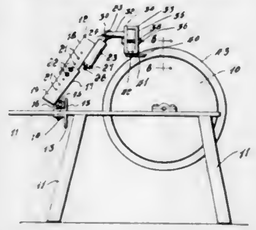
1. A recording and graph device comprising in combination a frame, an abutting plate fixedly mounted within said frame, a base sheet secured to said abutting plate, overlapping strips of paper secured at one of their longitudinal edges to said base sheet, a slide plate slidingly mounted in said frame, overlapping strips of paper secured at their top and bottom edges to said slide plate so as to form slots therebetween, said slide plate being arranged within said frame in such a way that said strips of paper secured to said base sheet are interposed in said slots and the sliding movement of said slide plate being limited in one direction by said abutting plate and in the other direction by said frame.

2,166,854
BUCKET FOR MINIATURE DIGGING AND HOISTING MACHINES
William D. Bartlett, Miami, Fla.
Application July 5, 1938, Serial No. 217,618
3 Claims. (Cl. 46—40)



1. A bucket for digging and hoisting machines including complemental parts pivotally connected at one end, an article engaging digit adjustably mounted on the opposite end of each part, said digits being relatively movable when pressure is exerted on said parts at a point remote from the digits.

2,166,855
BLADE HOLDER
James Benda, Wausau, Wis.
Application April 21, 1938, Serial No. 203,385
5 Claims. (Cl. 51—222)

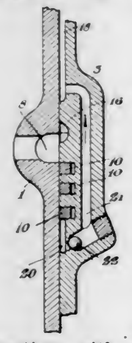


1. In a device of the class described, a member adapted to be removably secured to a whetstone support, an arch pivotally supported by said member and extending upwardly therefrom, said arch being formed of extensible sections, a T-shaped member swivelly mounted on said arch and having a bore extending through its head, and a yoke slidably mounted in said bore, clamping means at each end thereof adapted to removably engage the blade to be sharpened, said device being adapted to move the blade into and out of engagement with a grinding wheel and for transverse movement of the blade relatively to the grinding wheel.

2,166,856
POLYVINYL ACETAL RESINS AND COMPOSITION THEREOF
Kenneth Guy Blaikie and Robert Nelson Crozier, Shawinigan Falls, Quebec, Canada, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada
No Drawing. Application August 13, 1937, Serial No. 159,016
8 Claims. (Cl. 260—73)

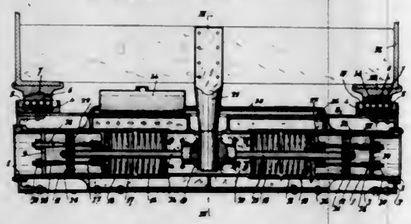
1. A resinous composition comprising a polyvinyl acetal made by the condensation of a partially or completely hydrolyzed polyvinyl ester and an aldehyde, and a condensation product of para-tertiary-amyl phenol and an aldehyde.

2,166,857
LUBRICATING DEVICE
Jean Bugatti, Molsheim, France
Application October 3, 1935, Serial No. 43,430
In France October 6, 1934
7 Claims. (Cl. 309—8)



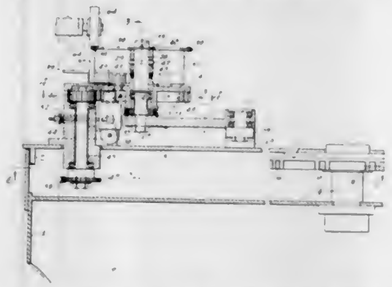
1. The combination, with a piston having an auxiliary reservoir of lubricant, lubricating groove in its external surface spaced apart from said auxiliary reservoir, and a connecting passage from said auxiliary reservoir to said lubricating groove; of check means movable in said passage, responsive to inertia for closing the passage to prevent back flow of lubricant from the lubricating groove into the auxiliary reservoir, also responsive to inertia for opening the passage to permit transfer of lubricant from the reservoir to the groove.

2,166,858
RAILWAY TRUCK
Ettore Bugatti, Molsheim, France
Application August 3, 1937, Serial No. 157,210
In France August 24, 1936
3 Claims. (Cl. 105—182)



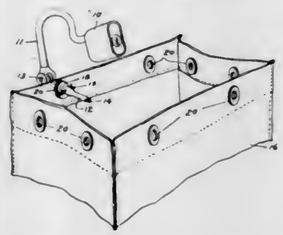
1. In a truck having a lateral motion damping device adapted to cooperate with a king bolt depending from the corresponding vehicle, the combination of a rigid tubular housing for said device, having an upper slot for accommodating the king bolt, the housing being open at both ends for mounting and dismounting said device; side frames arranged at right angles to the housing, provided with apertures for accommodating the open end portions of the housing; and means for assembling the housing and side frames into a truck frame having said housing as a transverse framing member.

2,166,859
FINISHING MACHINE
Gustave A. Carlson, Detroit, Mich.
Application July 22, 1938, Serial No. 220,767
20 Claims. (Cl. 51—108)



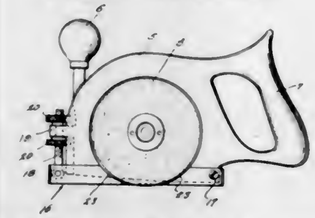
1. In apparatus of the character described, a work performing member, a work holder, means for moving said work holder into and out of operative relationship with said work performing member, means acting on the periphery of said work holder for rotating the same, and articulated means on said moving means supporting said work holder whereby its axis of rotation may shift incident to rotation.

2,166,860
CLOSURE AND LOCKING MEANS FOR KIT BAGS, CASH BAGS, AND THE LIKE
Henry Davis, Earlwood, New South Wales, Australia
Application October 7, 1936, Serial No. 104,508
In Australia July 2, 1936
5 Claims. (Cl. 70—65)



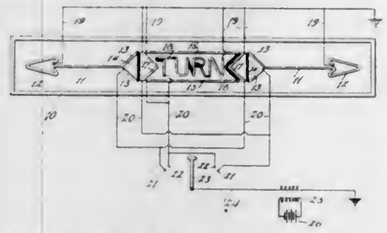
1. Closure and locking means for bags of the type having a foldable closure portion and a series of eyelets therein, comprising a casing, locking mechanism in said casing, a member attached to said casing and movable in relation thereto, a co-operating member pivoted to said member, lock engaging means on said co-operating member, means for releasably maintaining the cooperating member in engagement with one of the eyelets and in a position for engaging the locking mechanism subsequent to the engagement of the cooperating member with the other eyelets.

2,166,861
PORTABLE GRINDER
William C. Draheim, Withee, Wis.
Application October 17, 1938, Serial No. 235,493
1 Claim. (Cl. 51—170)



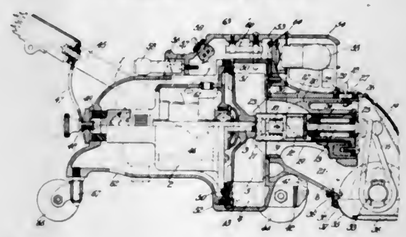
A grinding machine of the class described comprising a vertically arranged and longitudinally elongated narrow body having a circular opening in one side thereof, the lower edge of the body being substantially flat with the opening extending through an intermediate part of said edge, a circular tool located in the opening, a horizontally arranged bearing housing connected to the closed side of the body, a shaft journaled in said housing and extending into the opening and connected with the tool, means for rotating the shaft, said body having an extension at one end thereof provided with an opening for forming a handle, an upright handle adjacent the other end of the body, a gauge bar having U-shaped end portions, means for pivoting one end portion to the lower part of the handle end of the body, a screw having an end pivotally connected with the other end portion of the bar, a perforated projection at the front end of the body through which the screw passes, upper and lower nuts on the screw between which the projection is located, said bar having its side portions located adjacent the side faces of the body, with the free limbs of the U-shaped portions having their inner ends curving downwardly and inwardly to form a space between them for receiving a portion of the tool.

2,166,862
DIRECTION SIGNAL FOR VEHICLES
Isaac Owen Foster, Bloomington, Ind.
Application January 3, 1938, Serial No. 183,201
2 Claims. (Cl. 177—329)



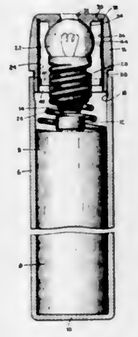
2. An electrical signaling device for vehicles comprising, in combination, separate illuminable tubes bent to form arrow shafts with arrow heads pointing to the right and left respectively and spaced apart at their inner ends; three spaced illuminable tubes between the inner ends of and complemental to both arrow shafts to provide a well defined tail for either shaft; illuminable turn indicia of a contrasting color within the tail; electrical circuit connections for all of said tubes and turn indicia; and a single switch in the circuit connected to energize the tubes forming a complete left or right arrow together with the turn indicia.

2,166,863
SUCTION CLEANING AND SWEEPING MACHINE
William Johnston Frame, Putney, London, and John James Hambidge, Wandsworth Common, London, England
Application August 19, 1936, Serial No. 96,866
In Great Britain August 23, 1935
8 Claims. (Cl. 15—9)



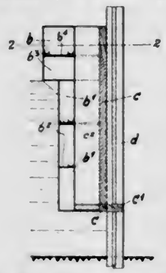
1. A suction cleaning and sweeping machine comprising a casing terminating in a suction nozzle and having a secondary suction inlet, rotary brush elements mounted in said nozzle, a suction fan mounted on a horizontal shaft in the casing, a valve member mounted in the casing coaxially with said shaft and operable to connect the suction nozzle or the secondary suction inlet to the suction portion of the fan, an extension shaft in the casing coaxial with said fan shaft, a driving connection between said extension shaft and said brush elements, clutch elements mounted on the adjacent ends of the fan shaft and the extension shaft, and a hand operated sleeve carrying said extension shaft and connected to said valve member to operate therewith and movable axially to control said clutch elements in accordance with the operation of said valve member.

2,166,864
ADVERTISING NOVELTY
Albert Gelardin, New York, N. Y.
Application March 5, 1937, Serial No. 129,115
11 Claims. (Cl. 40—130)



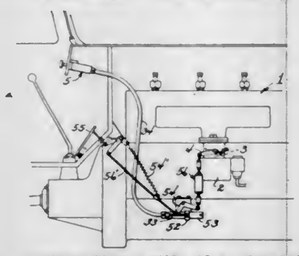
5. An advertising novelty of pocket flashlight proportions having, in combination, a battery containing casing comprising a light transmitting portion defining an enclosure and a light source within said enclosure, a light transmitting screen between said light source and said portion, substantially opaque indicia on the respective surfaces of said screen and means to illuminate said light source to render the indicia nearest said light source readily visible to supplement said indicia on the other surface.

2,166,865
SEMICOFFER OR SHIP CAISSON
Hans Gerdes, Wilhelmshaven, Germany
Application November 10, 1936, Serial No. 110,167
In Germany November 12, 1935
6 Claims. (Cl. 61—63)



1. A coffer of the class described for carrying out work on submerged structures, comprising, a bottom wall, spaced vertical walls secured to said bottom wall, partitions connecting said walls to form a plurality of fluid-tight ballast chambers, said vertical walls being spaced from the innermost edge of the bottom wall to form a vertical working space, and a packing member secured to said walls, said packing member forming a frame comprising a lower member conforming to the contour of the submerged structure, and a pair of spaced vertical members secured to said lower member, and a removable plate slidably mounted on said frame and spaced from the submerged structure.

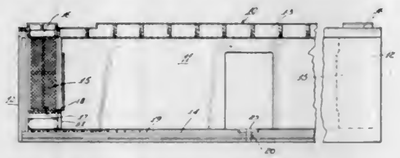
2,166,866
ACCELERATOR MECHANISM
Frank J. Hansen, Cheyenne, Wyo., assignor of one-half to James C. Valentine, Sioux City, Iowa
Application July 27, 1937, Serial No. 155,971
4 Claims. (Cl. 137—139)



1. In combination with the throttle valve of an engine, a manually actuated control, an operating connection between the manually actuated control and the throttle valve, means cooperable on said operating connection for limiting the opening travel of the throttle valve, and means interposed in said operating connection and actuated by the same for temporarily opening the throttle valve beyond the limits of said means.

2,166,867
RAILROAD REFRIGERATOR CAR
Anthony J. Hepp and Raymond A. Feind, Chicago, Ill.
Application May 2, 1939, Serial No. 271,316
2 Claims. (Cl. 62—19)

1. A railroad refrigerator car comprising a hollow body portion with a flat floor, having a plurality of spaced deep longitudinally extending grooves, a pair of bunkers for holding ice at the ends of the car and a substantially centrally positioned depressed well trap with an exit leading from the car, said bunkers having

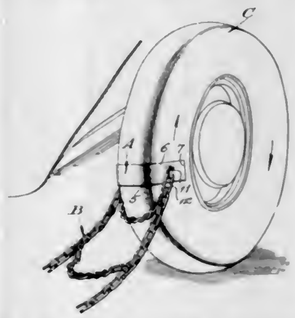


openings at their bottoms so that the cold water melted from the ice will drip on the floor and continue its refrigerating qualities while slowly moving in said grooves on the floor from the bunkers to the well trap and out the exit.

2,166,868
COLLOIDAL ALUMINUM HYDROXIDE
Harold W. Jones, Columbus, Ohio, assignor to The Columbus Pharmacal Company, Columbus, Ohio, a corporation of Ohio
No Drawing. Application March 2, 1936, Serial No. 66,605
6 Claims. (Cl. 167—72)
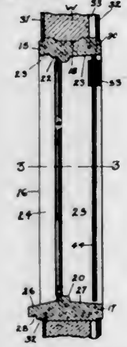
1. As a new composition of matter, a dry, pulverized antacid medicinal material consisting essentially of partially dehydrated aluminum hydroxide precipitated in the presence of a water-soluble protective organic colloid and having a relatively small amount of said colloid adhering thereto, said aluminum hydroxide being capable, when said dry material is mixed with water, of reverting to a gelatinous state similar to that of freshly precipitated aluminum hydroxide, and possessing marked acid-adsorbing power.

2,166,869
TIRE CHAIN CLAMP
Robert Earl Lees and James S. Wilson, Twin Rocks, Pa.
Application December 6, 1937, Serial No. 178,395
1 Claim. (Cl. 81—15.8)



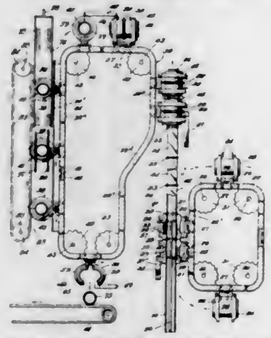
A clamp of the character described comprising a substantially U-shaped inherently resilient strap-like body of uniform width throughout forming a double-armed jaw, a bight formed in the closed side of said body and arched inwardly between the arms for a distance relative thereto, outwardly flared ends formed at opposite sides of said body at the terminal of the arms, and outwardly struck hooks at opposite sides of the body and cut and bent therefrom to lie crosswise of the arms.

2,166,870
CONCRETE WINDOW TRIM AND METHOD OF MAKING
Everett Grey Livesay, Miami, Fla.
Application October 7, 1937, Serial No. 167,839
4 Claims. (Cl. 72—98)



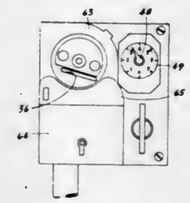
1. In a window construction designed to be furnished with Venetian blinds of the non-flapping type having guide pins projecting from the opposite ends of certain slats adapted to cooperate with guides, a monolithic concrete window frame including sides, sill and lintel, and having an inwardly extending rib all around, formed with a seating surface for a sash frame, said monolithic frame having Venetian blind pin-receiving guides imbedded therein, opening in the inner faces of opposite sides, said guides being parallel to one another and to the plane of said seating surface.

2,166,871
METHOD AND APPARATUS FOR MAKING GLASS ARTICLES
Paul R. Luertzing, Vineland, N. J.
Application October 12, 1937, Serial No. 168,664
30 Claims. (Cl. 49—1)



13. In an apparatus for making open ended glass articles, a plurality of shapers mounted for movement one after another into and out of position to engage about and draw a glass tube from a supply of molten glass, means for expanding portions of the tube within the shapers to form tube sections set off from each other by circumferentially extending enlargements, carriers each having a carriage and jaws for engaging about a tube section between enlargements, a track for said carriages having a portion extending parallel to said tube, means for moving the jaws of the shapers into engagement about the tube sections as the carriages move along the said portion of the track, means for cutting the tube about the enlargements to divide the tube into tubular bodies each having flared ends projecting from opposite ends of jaws gripping the same, a reheater having pipes extending parallel to another portion of said track and having outlets for directing jets of flame towards each other, stationary shaping rails extending from said reheater longitudinally of the last mentioned track portion, said jaws being pivoted to the carriages for turning adjustment from a position longitudinally of the track to a position transversely thereof, means for turning the jaws to the transverse position and disposing the flared ends of the glass bodies in position to pass through the flames of the reheater and then move along the shaping rails, companion shapers movable into and out of position to engage in the flared ends of the glass bodies during movement thereof along the shaping rails and together with the rails forming beads of the flared ends, means for rotating said jaws and the glass bodies during the reheating and reshaping of the flared ends, means for releasing the jaws and permitting movement thereof out of engagement about the glass bodies, and means for returning the jaws to a position longitudinally of the track.

2,166,872
COIN-CONTROLLED DEVICE FOR REGULATING GAS FLOW
Howard Clive Mayers, London, England
Application February 17, 1937, Serial No. 126,291
In Great Britain February 17, 1936
7 Claims. (Cl. 161—9)

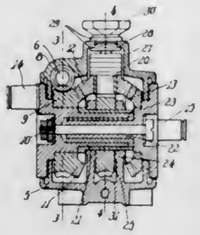


1. In coin-controlled mechanism for the supply of gas, a spring driven regulating device comprising a clockwork motor, a differential gear having elements, one element being actuated during the winding-up of the clockwork, a second element actuated by the running-down of the clockwork, and a third element being thereby returned to a predetermined zero position, a gas valve, and means operatively connected with the third element permitting the valve to close and stopping the clockwork at the zero position, said means subsequently maintaining the valve in its closed position under the force exerted by the spring of the clockwork motor.

2,166,873
DRIVING MECHANISM
Harold Moore and Henry Ernest Charlton, London, England
Application December 20, 1937, Serial No. 180,879
In Great Britain August 11, 1937
3 Claims. (Cl. 74—395)

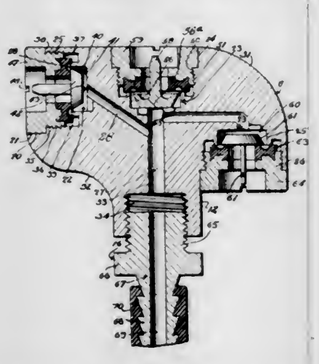
1. Driving mechanism of the type described, comprising a gear housing having two end walls, two crank discs respectively mounted coaxially in said end walls, a crank pin fixed to each of said crank discs and projecting from said crank discs externally of said housing, a sleeve pro-

jecting inwardly from one of said discs, a sleeve projecting inwardly from the other of said discs, said sleeves being in telescopic relation with one another, spaced bearing supports fixed within said housing and supporting said sleeves at spaced points located between said discs, an adjustable support mounted on said sleeves between said bearing supports and rotatably adjustable on said sleeves, a toothed wheel fixed to



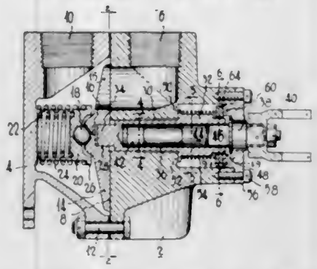
each of said discs, a toothed wheel mounted on said adjustable support and meshing with said toothed wheels fixed to said discs, adjusting mechanism for said adjustable support mounted on said housing, a worm wheel fixed to one of said crank discs within said housing, a driving shaft journalled in said housing, and a worm fixed to said driving shaft and meshing with said worm wheel.

2,166,874
AIR CHUCK
Willie C. Monzingo, near Abilene, Tex.
Application April 27, 1938, Serial No. 204,701
3 Claims. (Cl. 284—17)



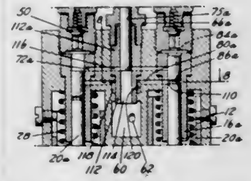
2. In a chuck for the purpose set forth, a head formed with a central and a pair of outer compressed air receiving chambers disposed in spaced relation and extending in different directions, each of said chambers adapted to have confined therein an operable compressed air supply controlling valve, said chambers opening into the atmosphere at spaced portions of the periphery of said head, and said head being formed with means for conducting compressed air to said chambers, said means consisting of a main channel leading from a compressed air supply and a pair of oppositely extending channels branching off of the main channel, each channel permanently opening into a chamber at the inner end of the latter, and tubular valve confiners extending into and threadedly engaging with the walls of said chambers.

2,166,875
DISK TYPE VALVE
John W. Overbeke, Anneslie, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.
Application November 14, 1938, Serial No. 240,423
13 Claims. (Cl. 251—90)



1. In a valve for controlling the flow of fluid, inlet and outlet portions having inlet and outlet passages respectively, one of said portions having a seating surface, a valve member engageable against said seating surface and rotatable about an axis for controlling communication between said inlet and outlet passages, an operating member mounted in one of said portions rotatable about the same axis, and a member mounted in one of said portions for rotation about the same axis operatively connecting said operating member and said valve member, said connecting member being movable in the direction of said axis with respect to both said operating member and said valve member, and being located outside the path of fluid flowing through said inlet and outlet passages.

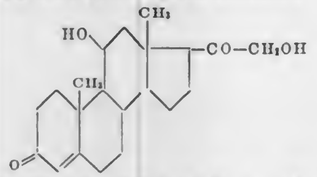
2,166,876
FUEL INJECTION PUMP
Everett M. Purdy, New Canaan, Conn., assignor to Eisemann Magneto Corporation, New York, N. Y., a corporation of New York
Application November 7, 1935, Serial No. 48,744
2 Claims. (Cl. 103—41)



1. A fuel injection pump for internal combustion engines comprising a sectional casing having a plurality of plunger bores uniformly spaced in a circle about an axis of said casing and a sectional bushing in said casing forming a cylindrical valve chamber disposed on said axis of said casing and triangular ports at the meeting surfaces of said bushing sections connecting said valve chamber to said bores, pump plungers in said bores for forcing fuel from said bores to the cylinders of an engine, means for operating said plungers, means for venting fuel from the plunger bores to said ports for cutting off the flow of fuel from said plunger bores to the engine cylinders at a fixed point in the movement of said plungers and a cylindrical control valve in said valve chamber having a flat end controlling said ports to govern the amount of fuel supplied to the pump plunger bores.

2,166,877
CORTICAL HORMONES
Tadeus Reichstein, Zurich, Switzerland, assignor, by mesne assignments, to Roche-Organon, Inc., Nutley, N. J., a corporation of New Jersey
No Drawing. Application September 19, 1938, Serial No. 230,722. In the Netherlands September 28, 1937
3 Claims. (Cl. 260—397)

1. The hormone called corticosterone in the pure crystalline state having the formula $C_{21}H_{30}O_4$ and having very probably the structure

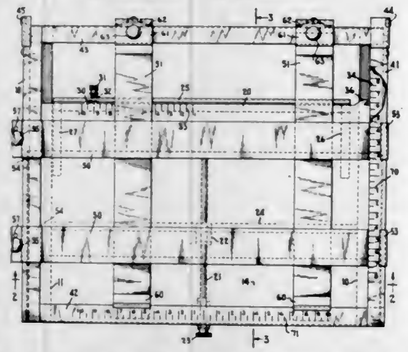


having a melting point of M. P. 180–182° C. (corr.)

$$(\alpha)_D^{15} = +223°$$

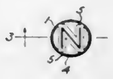
c=1.12 in absolute alcohol, which compound has curing properties in cases of adrenal insufficiency in animals and humans, reduces an ammoniacal silver solution in the cold and shows an absorption band in ultra violet light, typical to α-β unsaturated ketones.

2,166,878
PHOTOGRAPHIC ENLARGING EASEL
Joaquin M. Rodriguez, Yonkers, N. Y.
Application January 26, 1938, Serial No. 187,059
4 Claims. (Cl. 88—24)



1. A photographic enlarging easel of the type described, including a composite base plate comprising a relatively stationary supported first plate; a second plate, slidable relative to said first plate, disposed in a plane common thereto; manually operable means mounted in a portion of said composite base plate for causing sliding movement of said second plate relative to said first plate, said means including a rotatable shaft mounted in parts of said base, engaging with formations on said second plate whereby rotation of said shaft is translated into sliding motion of said second plate; stops carried on said second plate adapted to facilitate centering of enlarging paper positioned on said plates relative to said composite base plate; and a frame, pivotally mounted on an edge portion of said composite base plate, including a plurality of intersecting pairs of slidable essentially parallel masking arms arranged to overlie enlarging paper positioned on said composite plate.

2,166,879
ORNAMENTED ARTICLE AND METHOD OF MAKING
William F. Schmalz, Rockville, Conn., assignor to Colt's Patent Fire Arms Manufacturing Co., Hartford, Conn., a corporation of Connecticut
Application July 15, 1936, Serial No. 90,640
8 Claims. (Cl. 18—59)

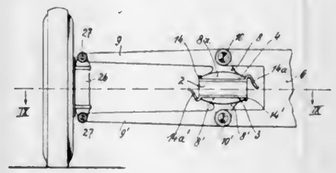


1. In an article of the class described, the combination of an ornamental insert which includes a plurality of integral substantially pointed portions, and a body molded around said insert at the back and edges thereof but leaving the front face exposed, said body being of such size and contour that there is a border of molded material around said insert except at the ends of said substantially pointed portions which are at the edge of the body.

3. In an article of the class described, the combination of an ornamental insert which includes a main design portion and a plurality of spaced apart integral projections extending outward from the edge of said main design portion, and a body molded around said insert at the back and edges thereof but leaving the front face exposed, said body being of such size and contour that there is a border of molded material around the main design portion of the insert but the ends of said projections are at the edges of the body.

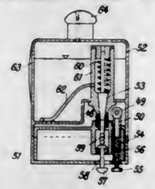
6. An ornamental insert of substantially uniform thickness and adapted to have a body molded therearound, comprising a design portion, and an integral frame surrounding said design portion, said frame including a plurality of substantially pointed portions adapted to engage the side wall of a mold to center the insert with respect to the mold.

2,166,880
SPRINGING ARRANGEMENT FOR VEHICLES
Heinrich Jakob Schuh, Zwickau, and Walter Boxan, Chemnitz, Germany, assignors to Auto Union Aktiengesellschaft, Chemnitz, Germany
Application March 18, 1937, Serial No. 131,720
In Germany March 16, 1936
2 Claims. (Cl. 267—21)



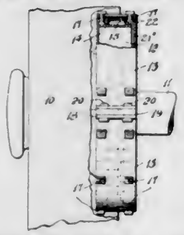
1. A springing arrangement for an independently sprung vehicle wheel comprising in combination with the vehicle frame, two rotatably mounted links carried by the frame for guiding the wheel, a pair of plate members, one of said plates being secured to each link, said plates being adapted to move in the swinging plane of the wheel, a relatively hard rubber member interposed between and secured to the surfaces of said plate members whereby the shear resistance of the rubber member opposes the springing of the wheel.

2,166,881
IGNITER WITH LIQUID FUEL
Walter Voss, The Hague, Netherlands
Application November 1, 1935, Serial No. 47,901
In Germany November 16, 1934
7 Claims. (Cl. 67—7.1)



6. An igniter comprising in combination walls forming a closed receptacle for free liquid fuel, including free spiritous liquid fuel, also containing non-combustible liquid such as water or non-inflammable perfume oil, for instance cologne, perfume or the like; some of said walls extending outwardly beyond another of said walls so as to form a socket; a carrier body having a wick and igniting spark-producing means mounted thereon with a portion of the wick exposed, the wick and spark-producing means being located adjacent each other so that the sparks are directed against the wick when the spark-producing means is operated but spaced apart sufficiently to permit fuel to be applied to the wick without wetting the spark-producing means; the wick carrier body fitting snugly within the socket with the wick and spark-producing means inside said socket so as to be shielded when not in use by the portions of the receptacle walls forming the socket, and removable from said socket for use; one wall of the receptacle having an opening for direct delivery of drops of free liquid fuel to the exposed portion of the wick for burning; a valve for controlling said opening; and said receptacle having a resiliently deformable wall for forcing the liquid fuel through the drop delivery opening upon being pressed inwardly when the valve is open.

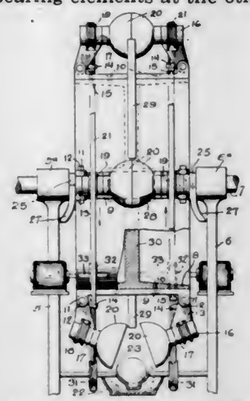
2,166,882
HOUSING AND HUB BAND FOR CARS
Columbus C. Wallace, Fort Henry, Tenn.
Application April 22, 1937, Serial No. 138,435
3 Claims. (Cl. 188—2)



1. In combination with an automobile wheel structure having a brake drum, a backing plate and band device comprising a band adapted to encircle the brake drum, said band on its inner surface having spaced apart ribs, each of said ribs extending toward the axis of the band, one of said ribs extending toward said axis farther than the other rib.

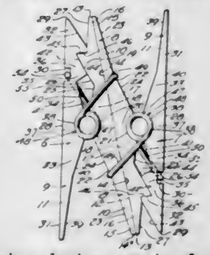
2,166,883
CITROUS PEEL SCRAPER
Robert D. Wehr, Auburndale, Fla.
Application January 31, 1938, Serial No. 187,956
4 Claims. (Cl. 146—49)

1. A citrous peel scraper, a frame including horizontally alined bearings, a shaft journalled in said bearings, a cylinder coaxially mounted on said shaft, a series of bearing elements spaced circumferentially around and projecting outwardly from the periphery of said cylinder adjacent each end thereof, the bearing elements adjacent one end of the cylinder being disposed opposite the bearing elements at the other end of



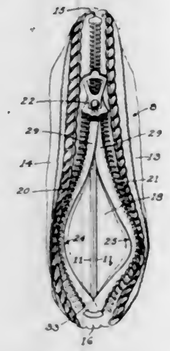
the cylinder, arms pivotally supported by said bearing elements to form opposed pairs movable toward and from each other, bearings on the outer ends of said arms, shafts journalled in the last mentioned bearings, driving pulleys fixed on said shafts, confronting scraping cups fixed on said shafts to form citrous fruit receptacles, and means to drive the pulleys at one end of the cylinder in opposite directions to the pulleys at the other end of said cylinder.

2,166,884
SUSPENSION DEVICE
William White, Flint, Mich.
Application December 23, 1938, Serial No. 247,449
1 Claim. (Cl. 24—137)



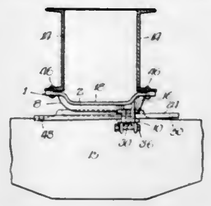
In a suspension device, a pair of oppositely disposed clamps disposed in fixed inner sidewise abutting relation throughout and each formed of an inner clamping bar, an outer clamping bar and a controlling spring having a coiled body arranged between and seated in said bars, said bodies at one termini thereof having oppositely disposed extended end portions overlapping and slidably mounted in the outer edges of the outer bars of the clamps for spring-controlling such bars and for coupling them to said bodies, said bodies at the other end termini thereof having oppositely disposed extended end portions overlapping and fixed in the inner edges of the inner bars of the clamps for maintaining the outer side edges of said inner bars in fixed abutting relation throughout, each of said clamps having the inner edges of its bars provided with coacting parts bordering and coacting with the body of its spring to form means therein for selectively mounting a clamp on a hanger, and each of said clamps having the inner edges of its bars formed with other coacting parts outwardly adjacent to the said means of the clamp for suspending an article.

2,166,885
AIRTIGHT RECEPTACLE
Jacob I. Wiseman, Middletown, N. Y.
Application March 28, 1938, Serial No. 198,594
1 Claim. (Cl. 24—205)



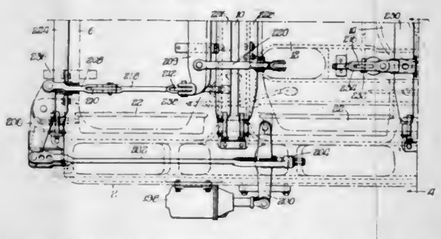
In a sealing means for a receptacle of that type formed of a pair of sections having their end marginal portions and a side portion thereof inturned and secured together in abutting relation throughout to provide the receptacle with an entrance, said receptacle being formed with a closure for said entrance of the slide fastener type including parts secured to the inner faces of said sections extended from the sides of said entrance and carrying on their outer faces oppositely disposed rows of interengageable teeth and a slide for moving the teeth of the rows into and out of engagement, the combination of a pair of opposed combined elastic and resilient elements of strip-like form adapted to be positioned against the inner faces of said parts, each of said elements has the outer portion of its end edges cut out to form each end edge of the strip with an inner straight edge portion and a curved outer edge portion directed inwardly from the upper end of said inner edge portion to an end of the outer lengthwise edge of the strip, each of said strips including an inner portion and an outer portion, said outer portion providing a freely movable and extendible elastic flap having its end edges provided by the said curved outer edge portions of the end edges of the strip, said inner portion constituting a stationary rectangular base having its end edge provided by said straight inner edge portions of the end edges of the strip, one of said flaps being extended outwardly beyond the other to overlap the latter in superimposed relation throughout when the entrance is closed to seal the receptacle, said flaps being of less length than said bases and having their end edges provide clearances for the outer portions of the ends of said elements relative to the upper termini of the said inturned end marginal portions, means for securing said bases to the sections of the receptacle and to said parts for maintaining the bases stationary, and means for anchoring the ends of said bases to the said inturned end marginal portions.

2,166,886
CARRIER IRON AND BRAKE FULCRUM
Ray G. Aurien, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application September 4, 1937, Serial No. 162,410
14 Claims. (Cl. 188—205)



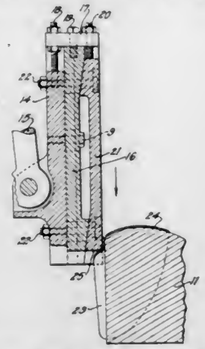
1. In a railway car a car body including spaced center sills, a supporting truck for said car body, a reinforcing member connecting said spaced center sills, said member comprising a depressed center portion forming a seat for a draft gear yoke and an integrally formed brake lever fulcrum, and a brake lever secured in said fulcrum at a point intermediate the ends of said lever and adapted to serve as a means of connection between said car body and brake rigging associated with said car truck.

2,166,887
BRAKE ARRANGEMENT
Ray G. Aurien, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application December 27, 1937, Serial No. 181,725
27 Claims. (Cl. 188—56)



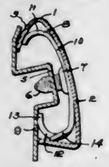
1. In a railway car truck a frame having side members and transverse load carrying members, a bolster supported from said load carrying members, supporting wheel and axle assemblies, and brake rigging comprising hanger levers supporting brake heads and brake beams at opposite sides of each assembly, dead truck levers fulcrumed from said bolster and connected to one of said beams, live truck levers fulcrumed from others of said beams, an intermedite beam connected between the live truck levers associated with one of said beams, pull rods connecting points adjacent the opposite ends of said intermediate beam to the live truck levers associated with another of said beams, pull rods interconnecting the truck levers adjacent each wheel, and means for operating said rigging comprising power means on opposite sides of said frame, auxiliary levers fulcrumed adjacent the opposite corners of said frame at one end thereof and operatively connected respectively to said power means, and operative connections between said auxiliary levers respectively and the adjacent live truck levers.

2,166,888
COUNTER MOLDING MACHINE
Charles W. Bailey and Jean H. Scharffenberg, Lynn, Mass., assignors to Stewart Bros. Inc., of Lynn, Lynn, Mass., a corporation of Massachusetts
Application April 21, 1938, Serial No. 203,324
10 Claims. (Cl. 12—66)



1. A counter molding machine having molds for engaging a counter blank, fixed guides adjacent to said molds, a composite flange plate movable in said guide and being constructed and arranged to be expanded in thickness while making its flanging stroke and to be contracted while making its reverse stroke, and means for reciprocating and consequently alternately expanding and contacting said flange plate.

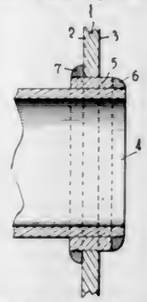
2,166,889
REINFORCEMENT MEMBER
Wilmer H. Churchill, Saugus, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application January 7, 1938, Serial No. 183,846
3 Claims. (Cl. 189—88)



1. A reinforcement for a hollow molding or the like comprising a base, a yieldable curved portion at one end of said base adapted to engage a side of said molding and at least one spring finger normally extending beyond the opposite end of said base, said finger having an edge at its outermost free end for engaging another side of said molding whereby said reinforcement is secured to said molding.

2,166,890
BOILER SHEET AND TUBE CONNECTION AND METHOD OF MAKING SAME
Jeremiah J. Desmond, Washington, D. C., assignor of one-half to John R. Grove, Washington, D. C.
Application September 17, 1936, Serial No. 101,325
4 Claims. (Cl. 29—157.5)

2. The method of connecting a tube to a sheet in a heat exchange device having a high pressure side and a low pressure side which comprises inserting an end portion of the tube in a sleeve so as to leave an annular pocket defined by the end portions of the tube and sleeve, securing the tube and sleeve together by weld material applied in said pocket and confined within the peripheral plane of the outer surface of the sleeve, forming an opening in the sheet of substantially the outside diameter of said sleeve, inserting the sleeve and tube assembly into the opening in the sheet from the low pressure side so that the sleeve fits snugly in the opening and the welded end



portions project from the high pressure side and terminate in spaced relation to the high pressure side, and then welding the sleeve to the low pressure side only of the sheet, whereby the sleeve and tube assembly can be subsequently withdrawn from the sheet by removing the weld material from the low pressure side of the sheet without enlarging the opening in said sheet.

2,166,891
DEWAXING HYDROCARBON OIL
William P. Gee, Plainfield, N. J., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 19, 1937, Serial No. 126,566
4 Claims. (Cl. 196—18)

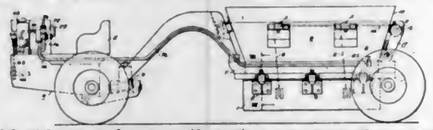


1. In the art of dewaxing oils in which wax is removed by filtration, the steps comprising mixing a dewaxing solvent with a wax-bearing oil, which mixture upon chilling and filtering tends to deposit a voluminous wax cake difficult to wash and to free from occluded oil, chilling the mixture to precipitate the wax, passing the chilled mixture to a filter to form a wax cake and to produce a filtrate, and mixing a predetermined portion of said cold filtrate with the mixture passing to the filter in such amount as to materially increase the ratio of oil to wax over that of the wax-bearing oil charge to control the character and thickness of said wax cake whereby the same may be washed in situ to remove occluded oil to effect a high total yield of dewaxed oil.

2,166,892
DOOR OPERATING MECHANISM
Edward R. Greer, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application June 20, 1936, Serial No. 86,276
9 Claims. (Cl. 298—35)

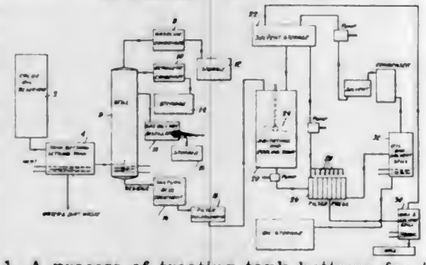
1. In a dump wagon, a door actuating shaft rotatably mounted on the wagon, a frame comprising relatively spaced side members suspended

on said shaft and connected by a cross member, a cylinder mounted on said cross member, a piston within said cylinder, a piston rod secured to said piston, a cross head secured to said piston rod, guides for said cross head formed on



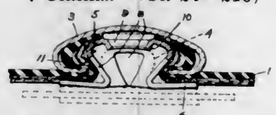
said side members, coil springs mounted on said cross member and bearing against said cross head, and flexible connecting means between said shaft and cross head, adapted to be wound around said shaft by door opening rotation thereof.

2,166,893
PROCESS OF TREATING PETROLEUM TANK BOTTOMS
Frank E. Holsten, Tulsa, Okla.
Application December 12, 1936, Serial No. 115,468
12 Claims. (Cl. 196—5)



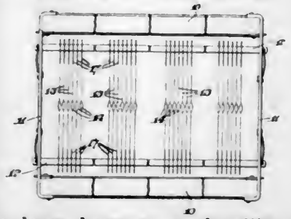
1. A process of treating tank bottoms for the recovery of valuable products therefrom comprising heating said tank bottoms at a low temperature over an extended period of time to clean said tank bottoms by separating water and solid matter therefrom, delivering the cleaned tank bottoms to a still, distilling off the volatile constituents of the cleaned tank bottoms until a residue having a flash point of approximately 500° F. is produced, removing the residue from the still and dissolving the residue in a heated solvent to produce a solution from which wax fractions are precipitated upon cooling to produce a wax having a melting point of above 165° F.

2,166,894
SNAP FASTENER SOCKET AND INSTALLATION THEREOF
Ernest E. Jones, Melrose, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application April 23, 1938, Serial No. 203,863
7 Claims. (Cl. 24—216)



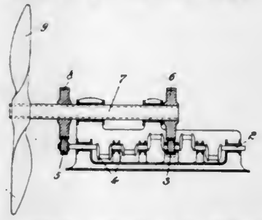
4. A snap fastener socket member formed from a single piece of sheet metal and having a yieldable and collapsible barrel portion one end of which has an aperture surrounded by a laterally yieldable wall which cooperates with a rigid stud member and the other end of which collapses to attach it to a support, said collapsible end having an aperture therein to assist in collapsing and a burr adjacent to said aperture to permit said barrel portion to cut through the support.

2,166,895
LOOM HARNESS
John Jacob Kaufmann, Elkins Park, Pa., assignor to Steel Heddle Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 21, 1937, Serial No. 138,072
4 Claims. (Cl. 139—96)



1. In a loom harness, a plurality of heddles made of thin flat steel each entirely enclosed within a relatively thin coating of hard metal adapted to take a relatively high polish, and also having each end portion above and below the shed lines enclosed within a heavier rust preventative coating of soft ductile metal superposed over the thin hard metal coating.

2,166,896
CRANKSHAFT ARRANGEMENT FOR INTERNAL COMBUSTION ENGINES
Hans Gregers Nissen, Berlin-Steglitz, Germany
Application May 27, 1938, Serial No. 210,496
In Great Britain April 30, 1938
2 Claims. (Cl. 74—389)

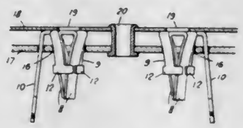


1. In an internal combustion engine, a multithrow crank shaft, a plurality of bearings for said crankshaft, a gear wheel mounted at one end thereof, a divided bearing between two adjacent throws of said crankshaft, a gear wheel mounted on said crank shaft between the two parts of said divided bearing, a countershaft mounted parallel to the axis of rotation of said crank shaft, and gear wheels mounted on said countershaft in constant mesh with the gear wheels on the crankshaft for simultaneous engagement with said gear wheels mounted on the crank shaft, whereby to provide a relatively high natural vibrational frequency of said crankshaft.

2,166,897
SPRING SOCKET FOR ELECTRIC PLUG COUPLINGS
George Wagstaff, Beeston, Nottingham, England, assignor to Carr Fastener Company Limited, Stapleford, Nottingham, England
Application June 2, 1936, Serial No. 83,005
In Great Britain July 24, 1935
6 Claims. (Cl. 173—328)

1. A one-piece spring socket member for electric plug couplings formed from a single piece of metal and comprising a head, downwardly converging spring contact fingers extending from spaced portions of said head and presenting be-

tween them a plug-receiving socket, and downwardly extending yieldable members extending from said head intermediate said fingers, said



yieldable members having formed at their ends lateral extensions substantially embracing said fingers to reinforce said fingers and restrain spreading thereof.

2,166,898

GARAGE DOOR CONSTRUCTION

Cecil R. Wolf, Rock Falls, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois

Application April 13, 1938, Serial No. 201,679

10 Claims. (Cl. 20—16)



1. In a garage door construction, a doorway, a rigid door having a vertical closed position in said doorway and an overhead open position inside the building, means forming in effect a pair of arms spaced apart and extending inwardly from the back of the door, means to pivot said arms on the door, so that in effect the arms are adjustable toward or away from each other about their pivots on the door, in the installation of the door, devices to pivotally support the ends of the arms on the building, so that the door may accurately swing upward into said overhead open position, and bracing means to keep the door from getting out of balance laterally, together with counter-balancing means to assist in opening the door, and to cushion the closing thereof.

2,166,899

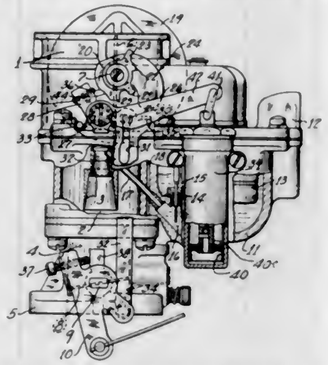
CARBURETOR STRUCTURE

August H. Blattner, Pine Lawn, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application July 6, 1936, Serial No. 89,088

3 Claims. (Cl. 261—52)

1. In a carburetor, choke and throttle valves, a choke valve shaft having structure with circumferential, radially spaced abutments, and an element movable with said throttle valve and disdisposed to engage one of said abutments when said throttle is substantially opened to force and hold said choke valve at least partially open and to cooperate with the other abutment when both



of said valves are substantially fully open to prevent closing of said choke valve.

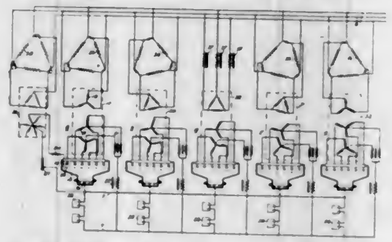
2,166,900

ELECTRIC CURRENT CONVERTING SYSTEM

Donald I. Bohn, Pittsburgh, Pa., and Othmar K. Marti, Wauwatosa, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application September 22, 1938, Serial No. 231,094

20 Claims. (Cl. 175—363)



1. In an electric current converting system, the combination with a polyphase alternating current circuit of a predetermined number of phases, a direct current circuit, a plurality of parallel current converters interconnecting said circuits and each comprising a plurality of electric valves and a transformer having a first winding connected with said alternating current circuit and a second winding connected with said valves, said second windings jointly forming a polyphase system having a number of different phases not exceeding four times the first said number of phases, of means connecting said first windings with said alternating current circuit to cause the voltages of all said second windings to form a polyphase system of voltages having a number of phases greater than four times the first said number of phases.

2,166,901

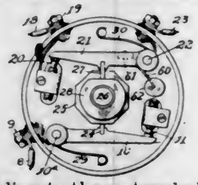
ELECTRIC CIRCUIT INTERRUPTER

Irven E. Coffey, St. Louis, Mo., assignor to Carter Carburetor Corporation, St. Louis, Mo., a corporation of Delaware

Application December 11, 1937, Serial No. 179,302

6 Claims. (Cl. 200—27)

1. In a circuit breaker of the class described, a movably mounted member, means for yieldingly reciprocating said member, said means being normally operable at varying rates, and a vibrating element carried by said member so as to mechanically influence the reciprocations of said



member according to the natural vibrating period of said element.

2,166,902

BUCKLE

John B. Freysinger, New Britain, Conn., assignor to North and Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut

Application November 13, 1937, Serial No. 174,415

4 Claims. (Cl. 24—230)



4. A buckle of the character described, comprising two separable plate members, one of said plate members being provided with oppositely disposed guide members spaced rearwardly from and parallel thereto, the other plate member being receivable between said guide members and said first plate member and having at its forward edge rearwardly turned locking lips engageable with the trailing edge of said guide member and having a transverse rearwardly depressed portion constituting a pivot intermediate of the locking lips and trailing edge and receivable on the front face of said guide members, and a spring finger for pivoting the second plate member having its free end intermediate of the locking lips and pivot and lying in a plane forwardly thereof and having its fixed end integral with the second plate member intermediate of the depression and trailing edge, whereby when said pivot rests on the front face of the guide member the spring will be compressed to pivot the second plate member to rock the locking lips rearwardly into engagement with the trailing edge of the guide member and the trailing edge of the second plate member forwardly to abut the rear face of the first plate member.

2,166,903

BUCKLE

John B. Freysinger, New Britain, Conn., assignor to North and Judd Manufacturing Company, New Britain, Conn., a corporation of Connecticut

Application November 16, 1937, Serial No. 174,756

2 Claims. (Cl. 24—178)



1. A buckle of the character described, comprising a one-piece body part of sheet metal, said body part having side bars, end bars and a center bar, a securing finger pivotally supported on the center bar and having its free end resting on one of the end bars, said end bar having oppositely disposed faces and an integral rearwardly extending tongue reversely curved upon itself to constitute a cylindrical guide member, the outside surface of said guide member being tangential to one of the faces of said bar and contacting the reverse face thereof, thus providing an unbroken surface coextensive with the tangential face of the end bar and of continuous curvature from the point of tangency to the point of contact with the reverse face of the end bar.

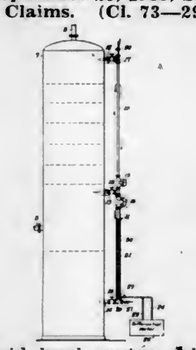
2,166,904

LEVEL COLUMN FOR EVAPORATORS AND FRACTIONATING TOWERS

James W. Gray, Mountain Lakes, N. J., assignor to Luis De Florez, New York, N. Y.

Application September 25, 1935, Serial No. 41,983

4 Claims. (Cl. 73—299)



1. In a liquid level gaging column for fractionating towers and the like, a member for interposition between couplings of a gage column, a standpipe opening through and carried by said member, said member having a restricted flow, stagnation preventing passage therethrough permitting liquid flow between the couplings but less than that provided by said standpipe.

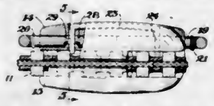
2,166,905

SLIDER FOR SLIDE FASTENERS

Noel J. Poux, Meadville, Pa.

Application December 9, 1937, Serial No. 178,921

10 Claims. (Cl. 24—205)



1. A self-locking slider for slide fasteners comprising a slider body having an interior channel, a resilient locking member having one end secured in the slider body and the other end resiliently movable inwardly and out of the slider channel, and a movable shaft member extending through the slider body and having cam means engageable with said locking member to hold it out of locking position in one position of the shaft, or in another position of the shaft to release it whereby its spring action will move it into locking position.

2,166,906

REFRIGERATING APPARATUS

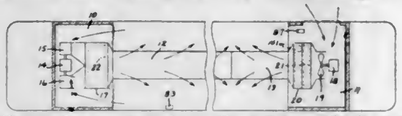
Charles F. Henney, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application January 21, 1936, Serial No. 60,088

15 Claims. (Cl. 98—10)

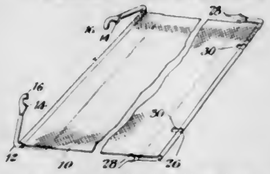
6. The method of refrigerating a vehicle compartment which comprises circulating air to and

from said compartment through a first cooling zone discharging adjacent one end of said compartment, and independently circulating fresh



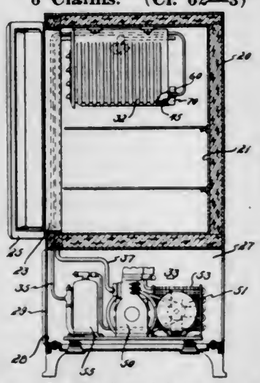
air through a second cooling zone discharging adjacent the other end of said compartment into said compartment.

2,166,907
INK PAD FOR DUPLICATING MACHINES
William F. Herterich, Brooklyn, N. Y., assignor to The Technygraph, Techny, Ill.
Application October 22, 1938, Serial No. 236,434
7 Claims. (Cl. 101—125)



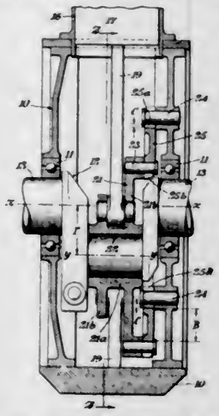
1. In a rotary stencil duplicating machine, in combination a cylinder having a perforated diaphragm, an ink pad extending over said perforated diaphragm and attached to said cylinder by end attachment members, one of said end attachment members comprising a heavy wire to which the fabric of the ink pad is secured, the ends of said wire extending beyond the end of the pad and being bent inwardly toward the opposite sides at an acute angle, a positioning point on the end of each wire end, and a hook also on each wire end adapted to engage corresponding prongs fixed to the cylinder.

2,166,908
REFRIGERATING APPARATUS
Lawrence A. Philipp, Detroit, Mich., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application January 13, 1933, Serial No. 651,560
6 Claims. (Cl. 62—3)



6. In a mechanical refrigerating system, the combination of a refrigerant compressor, a refrigerant condenser exposed to environment air where its condensing function is influenced by changes in environment temperature, an evaporator, liquid supply means connected in the system between the condenser and the evaporator for progressively reducing the pressure of the refrigerant passing to the evaporator while maintaining the pressure of the refrigerant above the pressure in the evaporator throughout normal operation of the system to aid in passing liquid refrigerant only to the evaporator, and vapor conduit means positioned in intimate thermal coupled relation with a portion of said liquid supply means for interchanging heat between the liquid refrigerant entering the evaporator and the vaporized refrigerant leaving the evaporator.

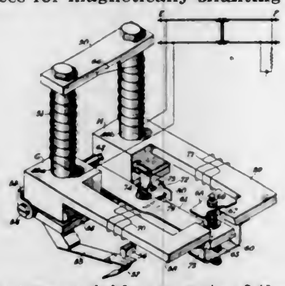
2,166,909
MASTERLESS CONNECTING ROD MECHANISM FOR RADIAL ENGINES OR PUMPS
Benjamin Kahn, New York, N. Y., assignor to Kinetic Cycle Research Corporation, New York, N. Y., a corporation of New York
Application March 2, 1936, Serial No. 66,558
In Canada March 2, 1935
26 Claims. (Cl. 121—120)



1. In a mechanism of the character described for converting reciprocating motion into rotary motion or vice versa, the combination including a crankcase having a plurality of definitely positioned pivotal means each providing a fixed axis of rotation, a crankshaft in the crankcase having a crankpin, a knuckle pin receiver on the crankpin having a plurality of definitely positioned pivotal means each providing a fixed axis of rotation, and compensating links adapted to limit rotation of the receiver around the crankpin each of said links operatively engaged with one of said pivotal means in the crankcase and with one of said pivotal means in the receiver, said links being of effective length different than the throw of the crankpin thereby permitting the distance between said axes of rotation engaged by each link to vary during rotation of the crankshaft.

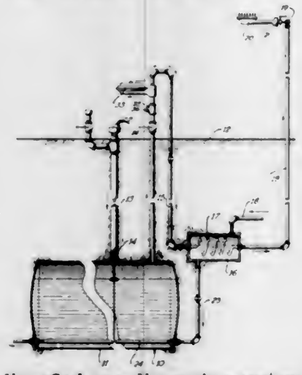
2,166,910
ELECTRICAL RELAY
Branko Lazich, Edgewood, and Paul K. Eckhardt, Swissvale, Pa., assignors to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application August 14, 1935, Serial No. 36,153
15 Claims. (Cl. 246—41)

1. In a relay, a magnetic core structure terminating in two pole pieces, a winding mounted on the core, an armature biased to a position away from the pole pieces and movable toward said pole pieces in response to magnetic flux created by current supplied to the winding, a magnetic shunt path including a magnetizable member movable to different positions relative to said pole pieces for magnetically shunting away from



said armature variable amounts of the flux which would otherwise pass through the armature in response to variations in the magnitude of the current supplied to the winding, and means controlled in part by said armature for governing the position of said member.

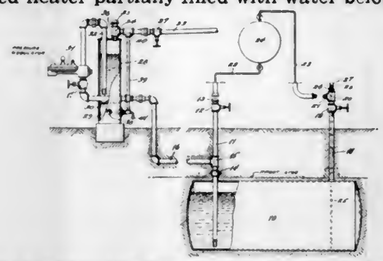
2,166,911
FUEL GAS APPARATUS
David J. Little, San Antonio, Tex., assignor, by direct and mesne assignments, to Southern Steel Company, San Antonio, Tex., a corporation of Texas
Application November 17, 1934, Serial No. 753,501
15 Claims. (Cl. 62—1)



9. In a liquefied gas dispensing system having a pressure storage tank buried in the ground to absorb heat from the surrounding earth, a dispensing pipe connected to the tank; heat exchanging means connected to the tank; and means to supply a heating medium to said heat exchanging means.

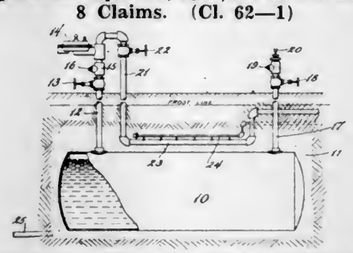
2,166,912
LIQUEFIED HYDROCARBON GAS STORAGE AND DISPENSING SYSTEM
David J. Little, San Antonio, Tex., assignor to Southern Steel Company, a corporation of Texas
Application April 12, 1937, Serial No. 136,489
11 Claims. (Cl. 62—1)

1. In a gas generating and dispensing system of the class described, a storage tank adapted to be buried in the ground and partially filled with liquefied hydrocarbon gas; a dispensing conduit extending to a point near the bottom of the tank; a pressure regulator connected to the dispensing conduit; a gasifier unit comprising a closed heater partially filled with water below the



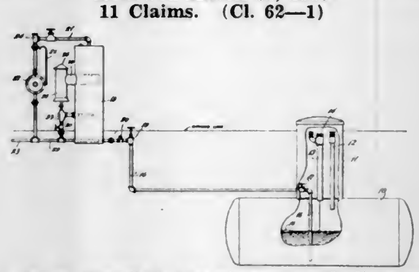
level of which the dispensed gas is discharged; a gas service pipe connected to the heater above the water level; and a burner for the heater connected to be supplied with the generated gas.

2,166,913
APPARATUS FOR STORING AND DISPENSING LIQUEFIED HYDROCARBON GAS
David J. Little, San Antonio, Tex., assignor to Southern Steel Company, a corporation of Texas
Application April 12, 1937, Serial No. 136,490
8 Claims. (Cl. 62—1)



7. In a liquefied gas storage and dispensing system of the class described, a vault buried underground below the frost line; a storage tank in the vault; a gas dispensing conduit and main connected to the tank and having a portion in said vault above the tank; and means to deliver running water through the vault in heating contact with said conduit and tank.

2,166,914
LIQUEFIED HYDROCARBON GAS STORAGE AND DISPENSING SYSTEM
David J. Little, San Antonio, Tex., assignor to Southern Steel Company, a corporation of Texas
Application May 28, 1937, Serial No. 145,390
Renewed March 22, 1939
11 Claims. (Cl. 62—1)



1. In a liquefied gas storage and dispensing system having an underground pressure storage

tank and a dispensing pipe for the liquefied gas, a gas generating unit including a container partially filled with water to which the dispensing pipe is connected below the water level; and a heater having indirect heating means connected to heat the water in said container.

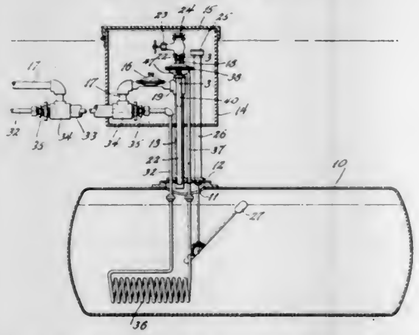
2,166,915

METHOD OF AND APPARATUS FOR STORING AND DISPENSING LIQUEFIED GAS

David J. Little, San Antonio, Tex., assignor to Southern Steel Company, a corporation of Texas

Application May 28, 1937, Serial No. 145,391

10 Claims. (Cl. 62—1)



1. In a liquefied gas storage and dispensing system of the class described, a storage tank adapted to be partially filled with volatile liquefied gas; a gas service pipe connected to the tank; heat exchanging means arranged to supply heat to both the service pipe and the contents of the tank; and automatic control means for the heat exchanging means connected to maintain the temperature and pressure of the gas within the tank substantially constant.

2,166,916

CLIP FOR MOUNTING CABLES AND LIKE OBJECTS

Herman G. Lombard, Washington, D. C., assignor to Albert H. Tinnerman, Cleveland, Ohio

Application May 25, 1937, Serial No. 144,742

1 Claim. (Cl. 24—73)



A clip for mounting a cable or the like onto an apertured support, said clip comprising a section of sheet metal having a bend on either end of the substantial mid-portion thereof to provide a substantially flat base and a pair of body portions extending from each end of the substantially flat base in the same general direction above said base, a yieldable leg member depending from one of said body portions and extending between said body portions to a point below said base, said yieldable leg member terminating in an outwardly projecting locking hook extending below said base, said clip also having a cooperating substantially rigid hook extending below said base and projecting in generally opposed relation to said locking hook on the yieldable leg member.

2,166,917

PROCESS OF PRODUCING ALKOXYL DERIVATIVES OF NITRO-AROMATIC COMPOUNDS

Harry McCormack and Gervase J. Stockmann, Chicago, Ill., assignors to North Shore Coke & Chemical Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application October 30, 1937, Serial No. 172,036

14 Claims. (Cl. 260—612)

1. In the manufacture of alkoxyl derivatives of nitro-aromatic compounds, the process which comprises heating a nitro-aryl halide and an alcohol together and effecting condensation thereof with the aid of a salt of an alkali-forming base decomposable as the reaction progresses to release an alkaline condensing agent.

2. In the manufacture of alkoxyl derivatives of nitro-aromatic compounds, the process which comprises heating a nitro-aryl halide and an alcohol together and effecting condensation thereof with the aid of a silicate of an alkali metal.

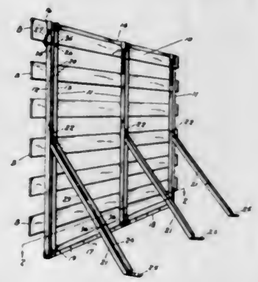
2,166,918

PORTABLE BULKHEAD

John McMullen, Buffalo, N. Y., and John T. Gallagher, Chicago, Ill.

Application May 3, 1938, Serial No. 205,732

9 Claims. (Cl. 105—369)



1. A portable bulkhead comprising spaced channel shaped uprights, spaced horizontal members extending between and fastened to said uprights, braces hinged to said uprights, nailing flanges hingedly secured to said braces, said nailing flanges being swingable to nested position in said braces and said braces being swingable to nested position in said uprights, and means for releasably fastening said braces when nested to said uprights.

2,166,919

HEAT TREATMENT OF CASTINGS AND THE LIKE

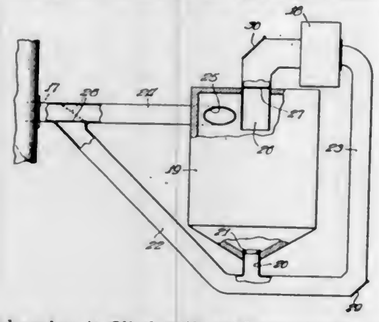
Arthur S. Nichols, Oak Park, Ill., assignor to The Illinois Clay Products Company, Joliet, Ill., a corporation of Illinois

Application February 13, 1937, Serial No. 125,547

4 Claims. (Cl. 266—2)

1. The method of retarding the rate of cooling of castings and the like which is characterized by stacking the castings while in highly heated condition in a relatively deep chamber, creating a current of air through said chamber with the aid of the upward currents induced in said chamber by the stack of hot castings, carrying granules of lightweight exfoliated vermiculite into said chamber with said current of air, allowing the current of air to pass out of said chamber but

preventing the escape of the granules, and after



said chamber is filled with said vermiculite, closing the same to arrest said air currents.

2,166,920

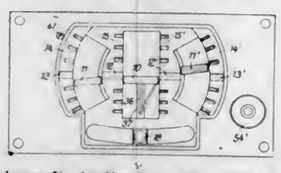
FLIGHT ATTITUDE INDICATOR

Hans Schuchardt, Berlin, Germany, assignor to Askania-Werke A. G., a corporation of Germany

Application March 2, 1938, Serial No. 193,594

In Germany March 2, 1937

5 Claims. (Cl. 33—204)



1. An aircraft indicator adapted for remote control comprising in combination with a casing, a transverse bar responsive to pitching only, normally horizontal reference marks fixed to the casing forming a continuation of the ends of said bar in horizontal flight, bank indicators extending radially on both sides of the face of the indicator forming a continuation of said reference marks with the craft in an unbanked attitude and adapted to perform a circular movement upon rolling, and arcuate scales at the outer circumference of the face of the indicator for cooperating with said bank indicators to indicate the angle of bank the zero indices of said scales adapted to form a continuation of the bank indicating means when the craft is in straight level flight.

2,166,921

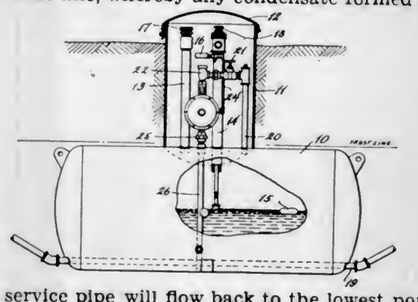
STORAGE AND DISPENSING SYSTEM FOR LIQUEFIED GAS

Loyd J. White, San Antonio, Tex., assignor to Southern Steel Company, a corporation of Texas

Application April 19, 1937, Serial No. 137,827

2 Claims. (Cl. 62—1)

1. In a storage and dispensing system for liquefied gas, a pressure storage tank buried in the ground below the frost line; dispensing appliances, including a pressure reducing regulator connected to and located above the tank; a protecting casing for said appliances having a cover accessible from above the ground; and a service pipe connected to said pressure regulator extending downwardly through the top wall of the tank in heat exchanging relation with the contents thereof thence outwardly through the tank wall and at an upward inclination therefrom below the frost line, whereby any condensate formed in



the service pipe will flow back to the lowest portion thereof within the tank and be revaporized.

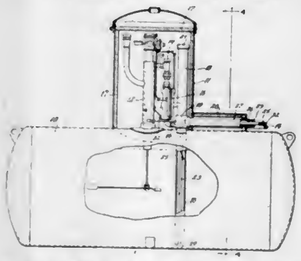
2,166,922

LIQUEFIED GAS DISPENSING SYSTEM

Loyd J. White, San Antonio, Tex., assignor to Southern Steel Company, a corporation of Texas

Application January 11, 1937, Serial No. 120,109

5 Claims. (Cl. 219—39)



1. In a liquefied gas dispensing system having a storage tank buried in the ground in heat exchanging relation with the surrounding earth, dispensing appliances including a pressure regulator connected to the tank; an insulated casing for the dispensing appliances; a gas main connected to the pressure regulator and inclined upwardly from the bottom portion of the casing to the point of use; a closed heat exchanging pipe extending from the interior of said casing into the tank below the normal liquid level therein and having a branch conduit connected thereto extending alongside the gas main; an electrical resistance heater in said pipe within the tank having conductors extending through said branch conduit; a pressure operated switch for controlling said heater having a pipe connected to the tank; a manual switch for said heater; and a thermal switch associated with the heater to prevent it from overheating, the heat delivered through said pipe to said branch conduit serving to revaporize condensed gas returned through the gas main.

2,166,923

RECESSING DEVICE

Charles H. Woodcock, Philadelphia, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

Application January 28, 1938, Serial No. 187,441

17 Claims. (Cl. 90—12)

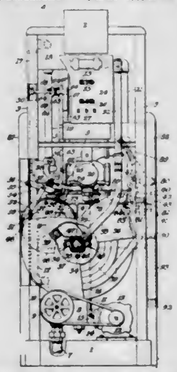
1. An internal recessing machine comprising a drive member, a recessing element mounted on said drive member, an eccentric member sur-

rounding said drive member, said drive member and eccentric member being rotatable about a common axis, means operatively connecting said



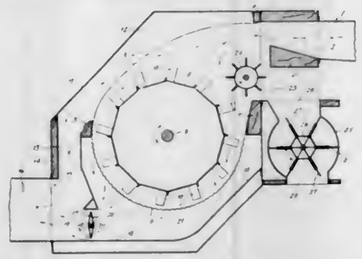
drive member with said eccentric member for insuring relative rotation between the drive member and eccentric member and means for rotating one of said members.

2,166,924
LIQUID DISPENSING APPARATUS
Joseph C. Woodford, Wayne, Pa., assignor to John Wood Manufacturing Company, Inc., Conshohocken, Pa., a corporation of Delaware
Application March 30, 1938, Serial No. 198,813
6 Claims. (Cl. 221—95)



1. In liquid dispensing apparatus having flow establishing means including a pump, a register for indicating the quantity of liquid dispensed at each dispensing operation and reset mechanism for zeroizing said register, the combination therewith of controlling mechanism for the flow establishing means comprising switch means and a hose supporting lever under hand control for starting said pump, and means to stop said pump by opening said switch, including a hose reel, a liquid dispensing hose connected at one end to said reel, a spring continually stressing said reel to retract and wind said hose thereon; and a lever and linkage, in said casing, connecting said hose reel with said switch and hose supporting lever; whereby said hose supporting lever may be tilted by the weight of the hose, when the hose is in idle position, to open said switch by said linkage and stop said pump.

2,166,925
AIR EXHAUSTING AND COTTON CLEANING MACHINE
John E. Mitchell, Dallas, Tex.; John E. Mitchell, Jr., Orville Mitchell, and Donald Mitchell executors of said John E. Mitchell, deceased
Application September 25, 1937, Serial No. 165,675
5 Claims. (Cl. 19—75)



1. The method of separating air and trash from cotton which consists in continuously drawing cotton into a chamber by suction created on the far side of a screen member interposed in the path of the air current and having a fine-mesh and a coarse-mesh portion, directing the course of the cotton in said chamber successively over the surfaces of the fine-mesh and coarse-mesh screens, periodically decreasing the volume of air passing through said coarse-mesh screen, and discharging the cotton passed over said coarse-mesh screen from the chamber.

2,166,926
PACKING AND INSULATING MATERIAL
William J. Kropp, Wichita, Kans.
Application January 9, 1939, Serial No. 250,060
2 Claims. (Cl. 154—44)



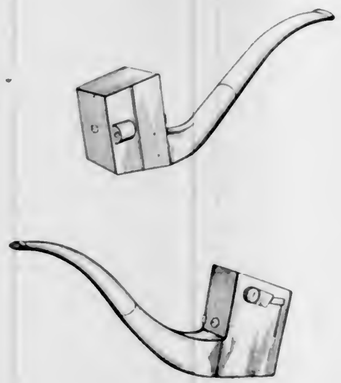
NORMAL VIEW

1. Comminuted paper insulation material characterized by a mass of heterogeneously arranged and interlocked slim, fuzzy, fluffy, fiber-like particles of varying length less than one-eighth of an inch and of a generally uniform though irregular transverse cross-sectional area, some of said particles crossing each other along their length with the fuzz on one particle engaging the fuzz on the other, the fiber-like particles being definitely non-flaky and generally elongated.

DESIGNS

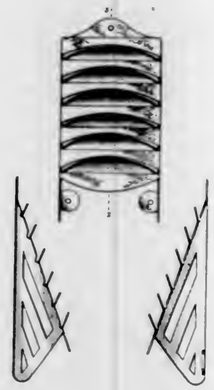
JULY 18, 1939

115,727
DESIGN FOR A PIPE CAMERA CASING
Norwood Anderson, New York, N. Y.
Application April 25, 1939, Serial No. 84,546
Term of patent 14 years



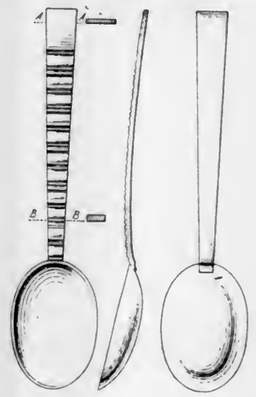
The ornamental design for a pipe camera casing, as shown.

115,728
DESIGN FOR A COMB HOLDER RACK
Nicholas J. Bardaville, Lansing, Mich.
Application July 14, 1938, Serial No. 78,481
Term of patent 3½ years



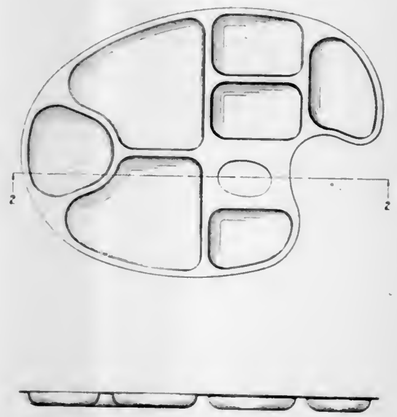
The ornamental design for a comb holder rack, as shown.

115,729
DESIGN FOR A SPOON OR ANALOGOUS ARTICLE
Arthur Le Roy Barney, New York, N. Y., assignor to Tiffany & Company, New York, N. Y., a corporation of New York
Application April 29, 1939, Serial No. 84,691
Term of patent 14 years



The ornamental design for a spoon or analogous article, as shown and described.

115,730
DESIGN FOR A BUFFET PLATE
Arthur Brandes, Los Angeles County, and Frank W. Jordan, La Habra, Calif.
Application February 13, 1939, Serial No. 82,968
Term of patent 3½ years



The ornamental design for a buffet plate, as shown.

115,731
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,611
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,732
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,612
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,733
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,613
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,734
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,614
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,735
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,615
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,736
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,616
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,737
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,617
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,738
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,618
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,739
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,619
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,740
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,620
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,741
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,621
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,742
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,622
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,743
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,623
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,744
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,624
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,745
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,625
Term of patent 7 years



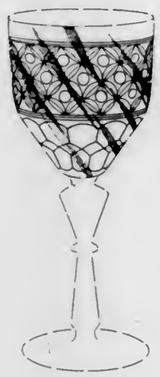
The ornamental design for a goblet or similar article, as shown and described.

115,746
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,626
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,747
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,627
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,748
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,628
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,749
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,629
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,750
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,630
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,751
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,631
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,752
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,632
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,753
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,633
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,754
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,634
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,755
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,635
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,756
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,636
Term of patent 7 years



The ornamental design for a goblet or similar article, as shown and described.

115,757
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,637
Term of patent 7 years



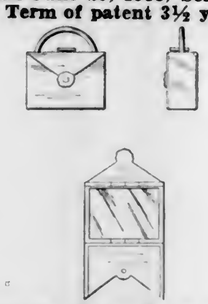
The ornamental design for goblet or similar article, as shown and described.

115,758
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
Andrew J. Cunningham, Snyder, N. Y.
Application April 27, 1939, Serial No. 84,638
Term of patent 7 years



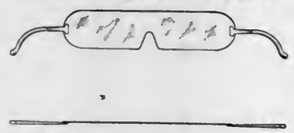
The ornamental design for a goblet or similar article, as shown and described.

115,759
DESIGN FOR A WATCH CASING OR SIMILAR ARTICLE
Lloyd J. Davenport, Kearny, N. J., assignor to Paul E. Flato, New York, N. Y.
Application June 29, 1938, Serial No. 78,145
Term of patent 3½ years



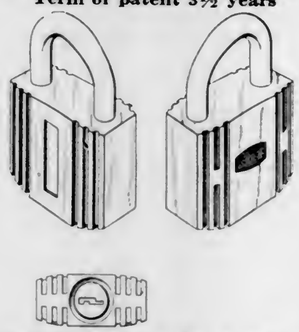
The ornamental design for a watch casing or similar article, substantially as shown and described.

115,760
DESIGN FOR AN EYESHIELD OR THE LIKE
John A. English, Trenton, N. J.
Application May 12, 1939, Serial No. 84,940
Term of patent 14 years



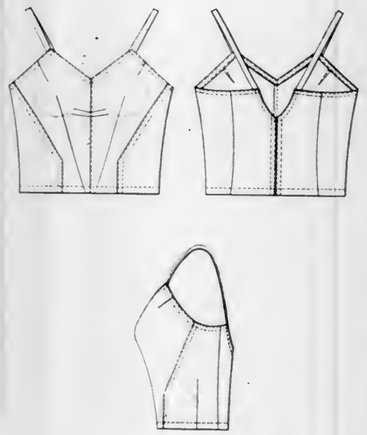
The ornamental design for an eyeshield or the like, substantially as shown.

115,761
DESIGN FOR A LOCK
Samuel R. Fraim, Lancaster, Pa.
Application May 5, 1939, Serial No. 84,811
Term of patent 3½ years



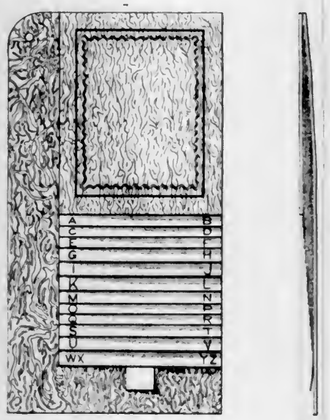
The ornamental design for a lock, substantially as shown.

115,762
DESIGN FOR A BRASSIÈRE
Samuel Green and Herman Miller, New York, N. Y.
Application April 20, 1939, Serial No. 84,416
Term of patent 3½ years



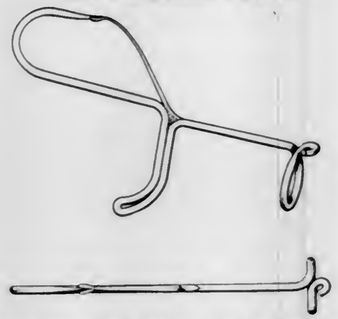
The ornamental design for a brassière, substantially as shown.

115,763
DESIGN FOR A DESK TELEPHONE DIRECTORY
William L. McCullouch, Aurora, Ill.
Application June 5, 1939, Serial No. 85,356
Term of patent 14 years



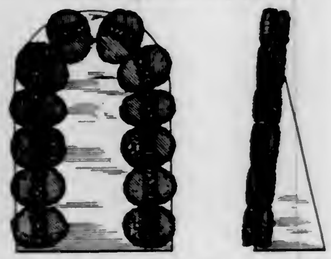
The ornamental design for a desk telephone directory, as shown.

115,764
DESIGN FOR A HAND GAFF
George R. O'Brien, Superior, Wis., assignor of one-half to Charles De Frehn, Superior, Wis.
Application April 24, 1939, Serial No. 84,534
Term of patent 7 years



The ornamental design for a hand gaff, as shown.

115,765
DESIGN FOR A COMBINED EARMUFF DISPLAY AND STAND THEREFOR
Charles L. Osborn, Chicago, Ill.
Application January 11, 1939, Serial No. 82,299
Term of patent 3½ years



The ornamental design for a combined earmuff display and stand therefor, as shown.

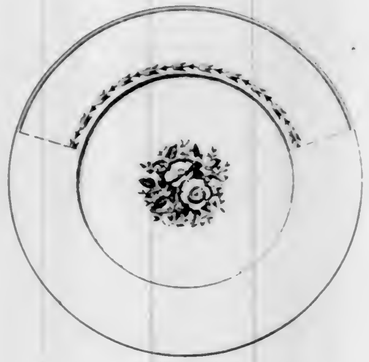
115,766
DESIGN FOR AN ELECTRICALLY ILLUMINATED PICTURE VIEWER OR SIMILAR ARTICLE
Vincent Ronacher, New York, N. Y.
Application August 8, 1938, Serial No. 79,175
Term of patent 3½ years





The ornamental design for an electrically illuminated picture viewer or similar article, substantially as shown.

115,767
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Victor Skellern, Fenton, Stoke-on-Trent, England, assignor to Josiah Wedgwood & Sons, Inc., of America, New York, N. Y., a corporation of New York
Application March 11, 1939, Serial No. 83,509
Term of patent 7 years



The ornamental design for a plate or similar article, as shown and described.

115,768
DESIGN FOR A DOLL
Mary Cooley Smith, South Weymouth, Mass.
Application May 10, 1939, Serial No. 84,921
Term of patent 7 years



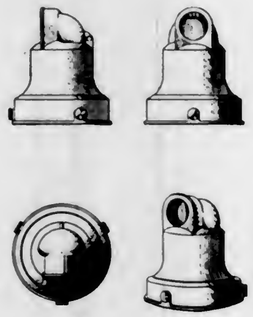
The ornamental design for a doll, substantially as shown.

115,769
DESIGN FOR A PAIR OF SPECTACLES
Thomas J. Snavely, Peabody, Kans., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application September 28, 1938, Serial No. 80,129
Term of patent 14 years



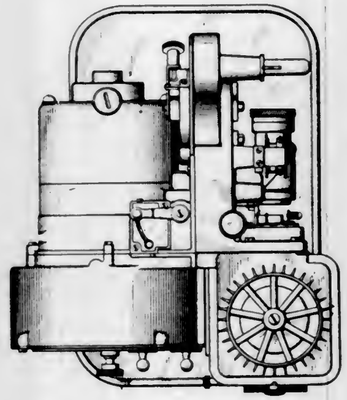
The ornamental design for a pair of spectacles, substantially as shown and described.

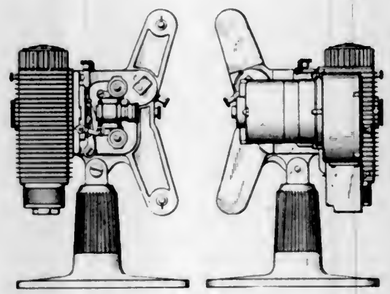
115,770
DESIGN FOR A SHADE HOLDER
Leon Spero, East Cleveland, Ohio
Application May 6, 1939, Serial No. 84,829
Term of patent 7 years

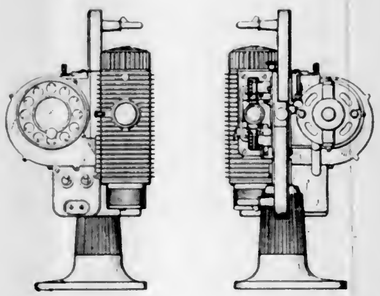


The ornamental design for a shade holder, substantially as shown.

115,771
DESIGN FOR A MOTION PICTURE PROJECTOR
Philmore F. Sperry, Chicago, Ill., assignor to Revere Camera Company, Chicago, Ill., a corporation of Delaware
Application June 3, 1939, Serial No. 85,323
Term of patent 14 years







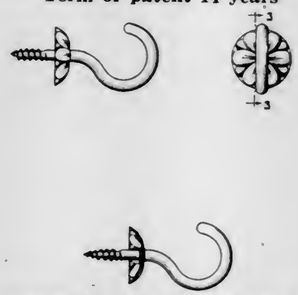
The ornamental design for a motion picture projector, as shown.

115,772
DESIGN FOR A PAIR OF SPECTACLES
Edward M. Splaine, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application March 24, 1938, Serial No. 76,059
Term of patent 14 years



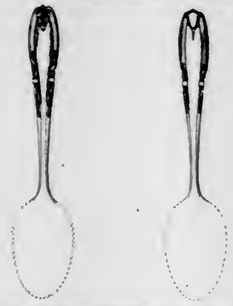
The ornamental design for a pair of spectacles, substantially as shown and described.

115,773
DESIGN FOR A CUP HOOK
Jacob Strand, New York, N. Y.
Application February 10, 1939, Serial No. 82,904
Term of patent 14 years



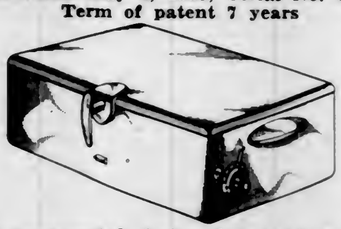
The ornamental design for a cup hook, substantially as shown and described.

115,774
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Frank S. Trumbull, Providence, R. I.
Application June 2, 1939, Serial No. 85,303
Term of patent 3½ years



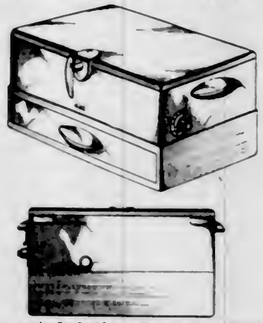
The ornamental design for a spoon or similar article, substantially as shown.

115,775
DESIGN FOR A PHOTOGRAPHIC PRINTER
Carl F. Wolters, Kenmore, and Allan H. Tober, Buffalo, N. Y., assignors to Remington Rand Inc., Buffalo, N. Y.
Application May 4, 1939, Serial No. 84,798
Term of patent 7 years



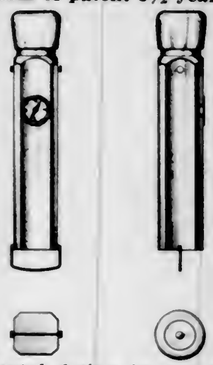
The ornamental design for a photographic printer, as shown.

115,776
DESIGN FOR A COMBINED PHOTOGRAPHIC PRINTER AND HOLDER THEREFOR
Carl F. Wolters, Kenmore, and Allan H. Tober, Buffalo, N. Y., assignors to Remington Rand Inc., Buffalo, N. Y.
Application May 4, 1939, Serial No. 84,799
Term of patent 7 years



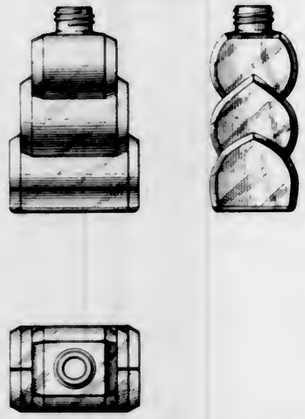
The ornamental design for a combined photographic printer and holder therefor, as shown.

115,777
DESIGN FOR A PORTABLE FLASHLIGHT
Howard E. Asch, New York, N. Y.
Application May 10, 1939, Serial No. 84,897
Term of patent 3½ years



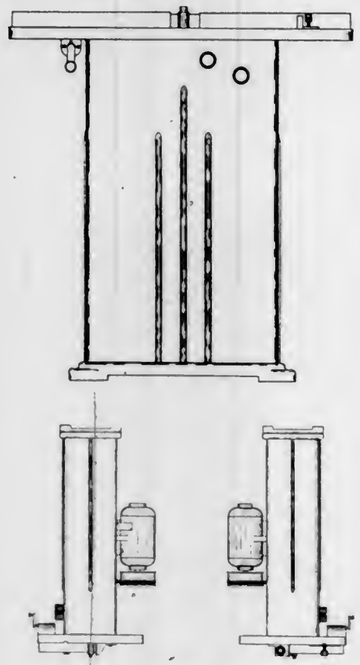
The ornamental design for a portable flashlight, as shown.

115,778
DESIGN FOR A BOTTLE
Jean L. Bicks, Brooklyn, N. Y., assignor to Carr-Lowrey Glass Company, Baltimore, Md.
Application May 8, 1939, Serial No. 84,880
Term of patent 14 years



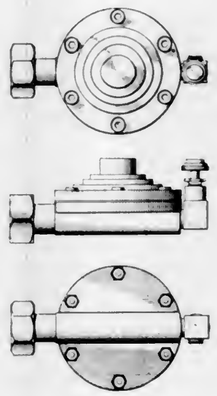
The ornamental design for a bottle, as shown.

115,779
DESIGN FOR A WOODWORKING MACHINE
William B. Boice, Toledo, Ohio
Application December 7, 1938, Serial No. 81,613
Term of patent 7 years



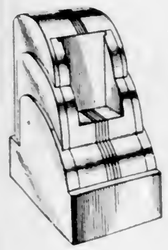
The ornamental design for a woodworking machine, as described and shown.

115,780
DESIGN FOR A REGULATOR
Herman W. Carnes, Indianapolis, Ind., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application May 12, 1939, Serial No. 84,938
Term of patent 14 years



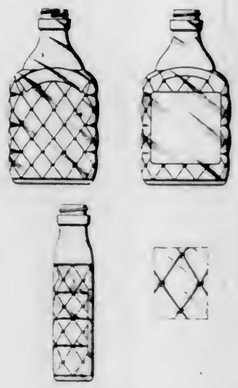
The ornamental design for a regulator, substantially as shown.

115,781
DESIGN FOR A CIGARETTE DISPENSER OR THE LIKE
O. Neil Christensen, Oak Park, Ill., assignor to John B. Whitted, Glencoe, Ill.
Application April 18, 1938, Serial No. 76,581
Term of patent 7 years



The ornamental design for a cigarette dispenser or the like, as shown and described.

115,782
DESIGN FOR A BOTTLE OR SIMILAR ARTICLE
Earle M. Cobb, Cutler, Calif., assignor to California Growers Wineries, Cutler, Calif., a co-operative marketing association of California
Application April 20, 1939, Serial No. 84,435
Term of patent 14 years



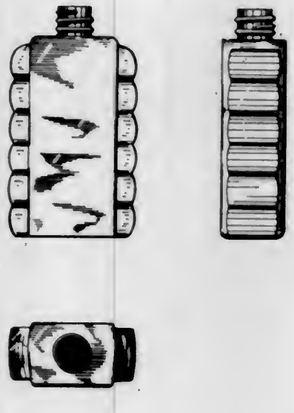
The ornamental design for a bottle or similar article, as shown.

115,783
DESIGN FOR A BRUSH BACK OR SIMILAR ARTICLE
Roger Conant, New York, N. Y., assignor to Prophy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware
Application February 4, 1939, Serial No. 82,779
Term of patent 3½ years



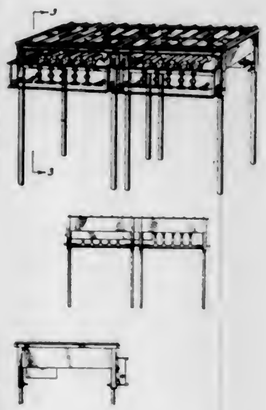
The ornamental design for a brush back or similar article, substantially as shown and described.

115,784
DESIGN FOR A BOTTLE
John L. Dunnock, Baltimore, Md., assignor to Swindell Brothers, Incorporated, Baltimore, Md.
Application May 8, 1939, Serial No. 84,881
Term of patent 7 years



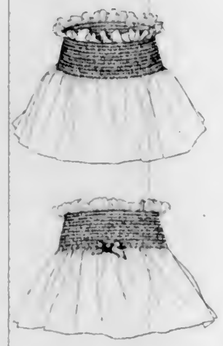
The ornamental design for a bottle, substantially as shown.

115,785
DESIGN FOR A FIELD STOVE
Percy M. Forster, Berkeley, Calif., assignor to Forster Manufacturing Co., Ltd., Berkeley, Calif., a corporation of California
Application September 20, 1938, Serial No. 79,999
Term of patent 14 years



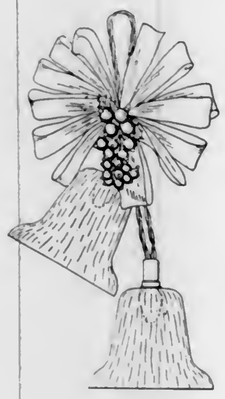
The ornamental design for a field stove, substantially as shown and described.

115,786
DESIGN FOR A LAMP SHADE OR SIMILAR ARTICLE
Harold Goldberg, New York, N. Y., assignor to Abels, Wasserberg & Co., Inc., New York, N. Y., a corporation of New York
Application March 22, 1939, Serial No. 83,756
Term of patent 7 years



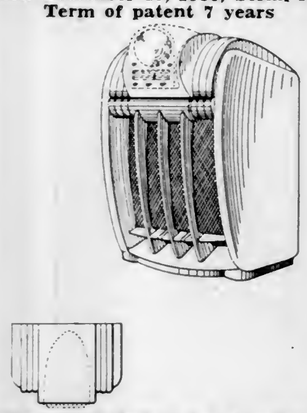
The ornamental design for a lamp shade or similar article, as shown.

115,787
DESIGN FOR A CHRISTMAS TREE ORNAMENT OR SIMILAR ARTICLE
Fred Grieco, New York, N. Y.
Application April 28, 1939, Serial No. 84,643
Term of patent 14 years



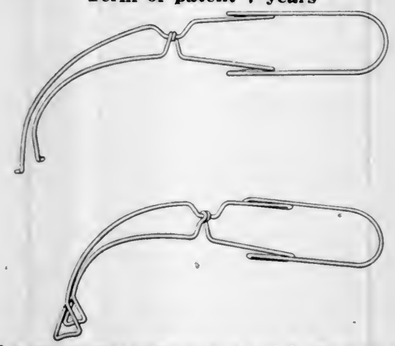
The ornamental design for a Christmas tree ornament or similar article, as shown.

115,788
DESIGN FOR A CABINET FOR A RADIO BROADCAST RECEIVER OR SIMILAR ARTICLE
Arthur C. Haggstrom, Rockford, Ill.
Application December 13, 1938, Serial No. 81,763
Term of patent 7 years



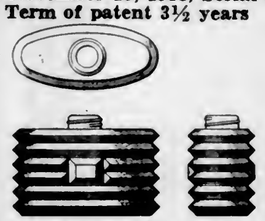
The ornamental design for a cabinet for a radio broadcast receiver or similar article, substantially as shown and described.

115,789
DESIGN FOR A PICK-UP DEVICE FOR GAME PIECES
John A. Hancock, Sr., Columbia, S. C.
Application May 8, 1939, Serial No. 84,879
Term of patent 7 years



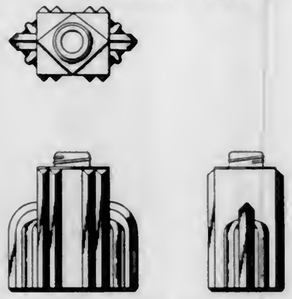
The ornamental design for a pick-up device for game pieces, as shown.

115,790
DESIGN FOR A BOTTLE
Frederick R. Hoch, Norton, Mass., assignor to T. J. Holmes Co., Inc., Chartley, Mass., a corporation of Massachusetts
Application November 15, 1938, Serial No. 81,089
Term of patent 3½ years



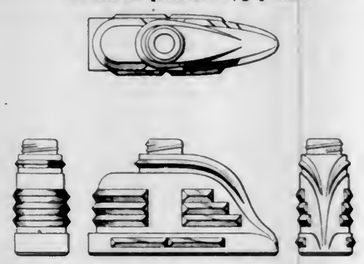
The ornamental design for a bottle, as shown.

115,791
DESIGN FOR A BOTTLE
Frederick R. Hoch, Norton, Mass., assignor to T. J. Holmes Co., Inc., Chartley, Mass., a corporation of Massachusetts
Application November 15, 1938, Serial No. 81,090
Term of patent 3½ years



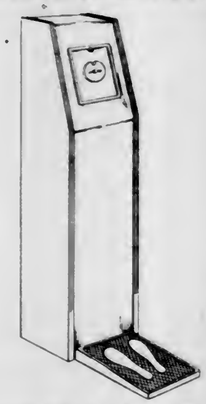
The ornamental design for a bottle, as shown.

115,792
DESIGN FOR A BOTTLE
Frederick R. Hoch, Norton, Mass., assignor to T. J. Holmes Co., Inc., Chartley, Mass., a corporation of Massachusetts
Application November 15, 1938, Serial No. 81,091
Term of patent 3½ years



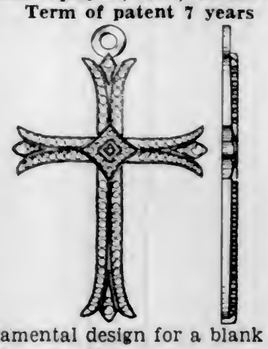
The ornamental design for a bottle, as shown.

115,793
DESIGN FOR A VIBRATOR
John F. Meyer, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application May 8, 1939, Serial No. 84,870
Term of patent 3½ years



The ornamental design for a vibrator, as shown.

115,794
DESIGN FOR A BLANK FOR A PENDANT CRUCIFORM
Meyer Reiff, Philadelphia, Pa.
Application April 19, 1939, Serial No. 84,383
Term of patent 7 years



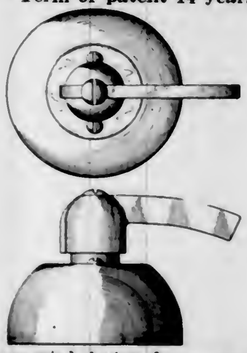
The ornamental design for a blank for a pendant cruciform, as shown.

115,795
DESIGN FOR A SHOWER HEAD
Jean O. Reinecke, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 20, 1939, Serial No. 85,091
Term of patent 14 years



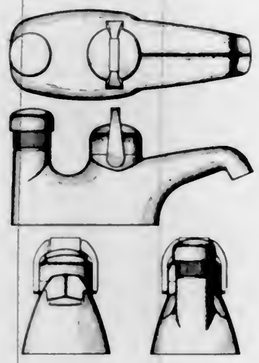
The ornamental design for a shower head, substantially as shown.

115,796
DESIGN FOR A COMBINED HANDLE AND ESCUTCHEON
Jean O. Reinecke, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 20, 1939, Serial No. 85,092
Term of patent 14 years



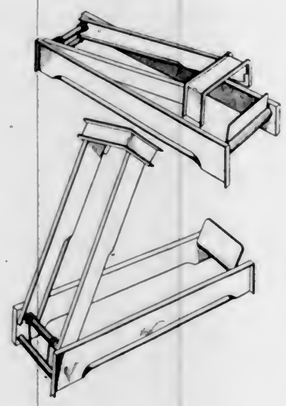
The ornamental design for a combined handle and escutcheon, substantially as shown.

115,797
DESIGN FOR A COMBINED LAVATORY SPOUT, WASTE HANDLE AND ICE-WATER FAUCET
Jean O. Reinecke, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 20, 1939, Serial No. 85,095
Term of patent 14 years



The ornamental design for a combined lavatory spout, waste handle and ice-water faucet, substantially as shown.

115,798
DESIGN FOR A PNEUMATIC PUMP FRAME
Linus E. Russell, Springfield, Ohio, assignor to Peters and Russell, Inc., Springfield, Ohio, a corporation of Ohio
Application May 15, 1939, Serial No. 84,996
Term of patent 7 years



The ornamental design for a pneumatic pump frame, substantially as shown.

115,799
DESIGN FOR A GOBLET OR SIMILAR ARTICLE
George Sakier, New York, N. Y., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 26, 1939, Serial No. 84,573
Term of patent 3½ years



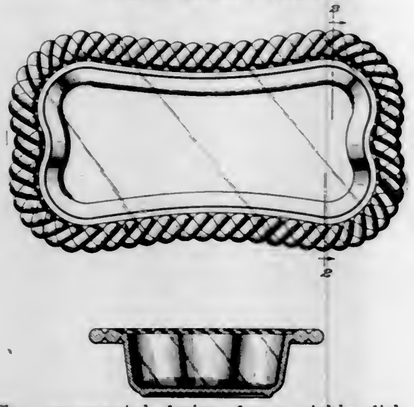
The ornamental design for a goblet or similar article, substantially as shown and described.

115,800
DESIGN FOR A PLATE OR SIMILAR ARTICLE
George Sakier, New York, N. Y., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 26, 1939, Serial No. 84,574
Term of patent 3½ years



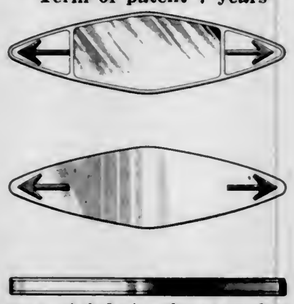
The ornamental design for a plate or similar article, substantially as shown and described.

115,801
DESIGN FOR A PICKLE DISH OR SIMILAR ARTICLE
George Sakier, New York, N. Y., assignor to Fostoria Glass Company, Moundsville, W. Va., a corporation of West Virginia
Application April 26, 1939, Serial No. 84,575
Term of patent 7 years



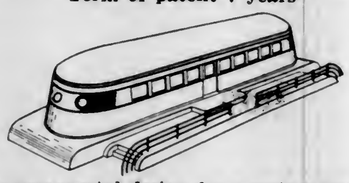
The ornamental design for a pickle dish or similar article, substantially as shown.

115,802
DESIGN FOR A COMBINATION MIRROR AND DIRECTION INDICATOR
Louis Roland Soderberg, Great Neck, N. Y.
Application March 17, 1939, Serial No. 83,641
Term of patent 7 years



The ornamental design for a combination mirror and direction indicator, substantially as shown.

115,803
DESIGN FOR A RESTAURANT BUILDING OR SIMILAR ARTICLE
Roland L. Stickney, New York, N. Y., assignor to J. B. Judkins Company, Merrimac, Mass., a corporation of Massachusetts
Application February 4, 1939, Serial No. 82,787
Term of patent 7 years



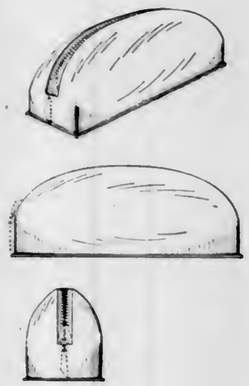
The ornamental design for a restaurant building or similar article, as shown and described.

115,804
DESIGN FOR A JAR OR SIMILAR CONTAINER
Everett Worthington, Scarsdale, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application May 14, 1938, Serial No. 77,200
Term of patent 7 years



The ornamental design for a jar or similar container, as shown.

115,805
DESIGN FOR A TOILET CASE
Horace C. Wright, Chicago, Ill., assignor to Chicago Flexible Shaft Company, Chicago, Ill., a corporation of Illinois
Application March 24, 1938, Serial No. 76,078
Term of patent 14 years



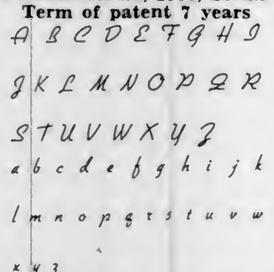
The ornamental design for a toilet case, substantially as shown.

115,806
DESIGN FOR A MATTRESS COVER OR SIMILAR ARTICLE
Ruth Sawyer Foggett, New London, Conn., assignor to The Palmer Brothers Company, New London, Conn., a corporation of Connecticut
Application March 9, 1939, Serial No. 83,485
Term of patent 7 years



The ornamental design for a mattress cover or similar article, as shown and described.

115,807
DESIGN FOR A FONT OF TYPE
William Sheldon Gillies, Los Angeles, Calif.
Application November 25, 1935, Serial No. 59,731
Term of patent 7 years



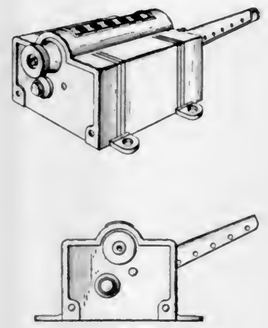
The ornamental design for font of type, as shown and described.

115,808
DESIGN FOR A TEXTILE FABRIC
George Meglbow, New York, N. Y.
Application May 25, 1939, Serial No. 85,196
Term of patent 3½ years



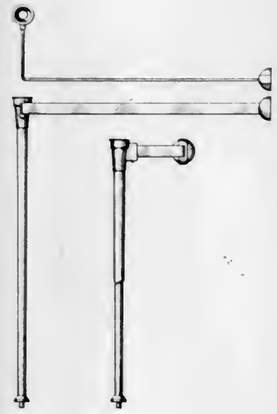
The ornamental design for a textile fabric, substantially as shown and described.

115,809
DESIGN FOR A COUNTING DEVICE
Frederick A. Poole, Barrington, Ill., assignor to Production Instrument Company, Chicago, Ill., a corporation of Illinois
Application December 10, 1938, Serial No. 81,707
Term of patent 14 years



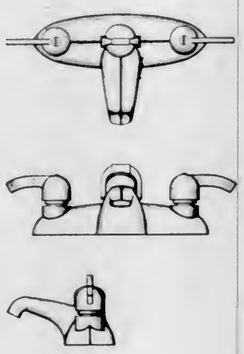
The ornamental design for a counting device, substantially as shown.

115,810
DESIGN FOR A COMBINED LAVATORY LEG AND TOWEL BAR
Jean O. Reinecke and Joseph M. Kovarik, Jr., Chicago, and Roy H. Zinkil, Oak Park Ill., assignors to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 20, 1939, Serial No. 85,093
Term of patent 14 years



The ornamental design for a combined lavatory leg and towel bar, substantially as shown.

115,811
DESIGN FOR A COMBINED LAVATORY SUPPLY FIXTURE AND WASTE HANDLE
Jean O. Reinecke, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 20, 1939, Serial No. 85,096
Term of patent 14 years



The ornamental design for a combined lavatory supply fixture and waste handle, substantially as shown.

115,812
DESIGN FOR AN EMBROIDERED TEXTILE FABRIC
Harris A. Rohtman, New York, N. Y.
Application May 23, 1939, Serial No. 85,144
Term of patent 3½ years



The ornamental design for an embroidered textile fabric, substantially as shown.

115,813
DESIGN FOR AN EMBROIDERED TEXTILE FABRIC
Harris A. Rohtman, New York, N. Y.
Application May 23, 1939, Serial No. 85,145
Term of patent 3½ years



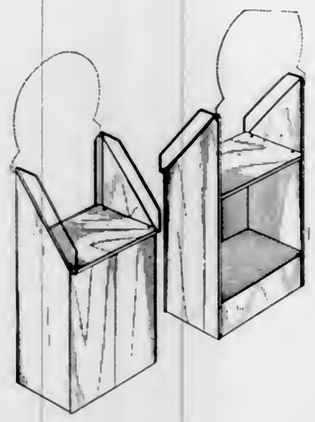
The ornamental design for an embroidered textile fabric, substantially as shown.

115,814
DESIGN FOR A PUMP
Elmer M. Deters, Davenport, Iowa, assignor to Red Jacket Manufacturing Company, Davenport, Iowa, a corporation of Iowa
Application May 5, 1939, Serial No. 84,817
Term of patent 3½ years



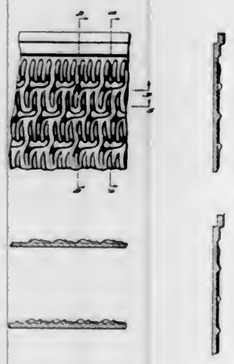
The ornamental design for a pump, substantially as shown and described.

115,815
DESIGN FOR A DISPLAY STAND OR THE LIKE
Claus E. Erickson, Des Moines, Iowa, assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa, a corporation of Iowa
Application December 15, 1938, Serial No. 81,801
Term of patent 7 years



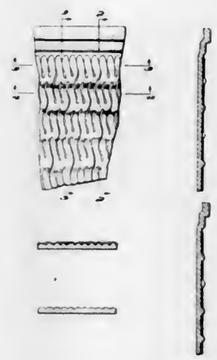
The ornamental design for a display stand or the like, substantially as shown and described.

115,816
DESIGN FOR LIGHT DIFFUSING GLASS
William F. M. Hawe, Crafton, Pa., assignor to Consolidated Lamp & Glass Company, Coraopolis, Pa., a corporation of Pennsylvania
Application March 21, 1939, Serial No. 83,728
Term of patent 14 years



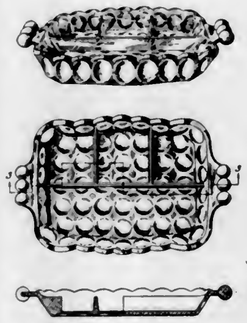
The ornamental design for light diffusing glass as shown.

115,817
DESIGN FOR LIGHT DIFFUSING GLASS
William F. M. Hawe, Crafton, Pa., assignor to Consolidated Lamp & Glass Company, Coraopolis, Pa., a corporation of Pennsylvania
Application April 22, 1939, Serial No. 84,503
Term of patent 14 years



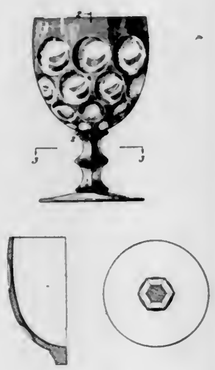
The ornamental design for light diffusing glass as shown.

115,818
DESIGN FOR A GLASS RELISH DISH OR ARTICLE OF SIMILAR NATURE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application May 15, 1939, Serial No. 84,990
Term of patent 14 years



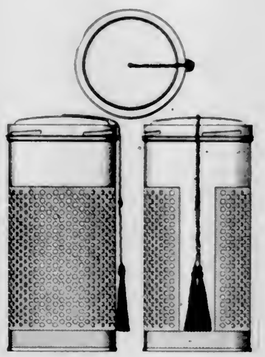
The ornamental design for a glass relish dish or article of similar nature, substantially as shown.

115,819
DESIGN FOR A GLASS GOBLET OR ARTICLE OF SIMILAR NATURE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application May 24, 1939, Serial No. 85,187
Term of patent 14 years



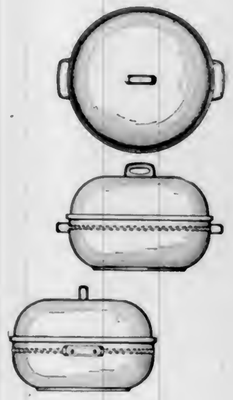
The ornamental design for a glass goblet or article of similar nature, substantially as shown.

115,820
DESIGN FOR AN INSECTICIDE CONTAINER
Melville Keim, Highland Park, Ill., assignor to Clean Home Products, Incorporated, Chicago, Ill., a corporation of Delaware
Application May 11, 1939, Serial No. 84,926
Term of patent 14 years



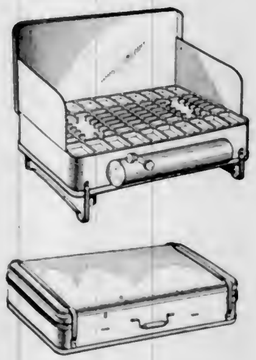
The ornamental design for an insecticide container, as shown.

115,821
DESIGN FOR A SERVING OVEN
Ralph N. Kircher, West Bend, Wis., assignor to West Bend Aluminum Company, West Bend, Wis., a corporation of Wisconsin
Application August 4, 1938, Serial No. 79,094
Term of patent 14 years



The ornamental design for a serving oven, as shown.

115,822
DESIGN FOR A PORTABLE STOVE
John R. Morgan, Oak Park, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application September 29, 1937, Serial No. 71,863
Term of patent 7 years



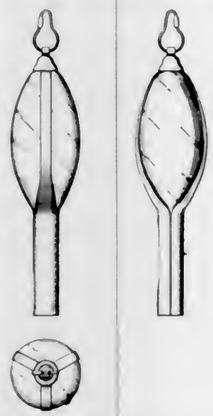
The ornamental design for a portable stove, as shown and described.

115,823
DESIGN FOR A LIPSTICK HOLDER
Grace Chess Robinson, New York, N. Y.
Application March 15, 1939, Serial No. 83,578
Term of patent 7 years



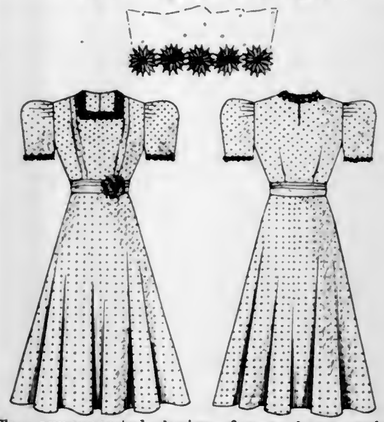
The ornamental design for a lipstick holder, as shown.

115,824
DESIGN FOR A FIRE EXTINGUISHING GRENADE
William Louis Roessner, Chicago, Ill., assignor to Bertha L. MacGregor, as trustee
Application May 22, 1939, Serial No. 85,127
Term of patent 14 years



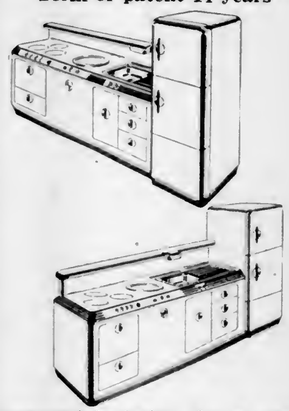
The ornamental design for a fire extinguishing grenade, as shown.

115,825
DESIGN FOR A DRESS
Albert Ruchman, New York, N. Y.
Application April 14, 1939, Serial No. 84,288
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

115,826
DESIGN FOR A COMBINATION KITCHEN UNIT
John Tjaarda, Detroit, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application May 3, 1939, Serial No. 84,772
Term of patent 14 years



The ornamental design for a combination kitchen unit, substantially as shown.

THE

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CONTENTS

	Page
Issue of July 25, 1939	843
Notice of Cancellation	843
Adjudicated Patents	843
Disclaimers	843
Applications Under Examination	844
Decisions of the U. S. Courts—	
The Toledo Pressed Steel Company v. Standard Parts, Inc. The Toledo Pressed Steel Company v. Huebner Supply Company. Montgomery Ward & Company, Inc. v. The Toledo Pressed Steel Company	845
The American Steel and Wire Company of New Jersey v. Coe, Commissioner of Patents	847
Walsko v. Smith	848
Patent Suits	852
Adverse Decisions in Interference	853
Bulletin of Decisions of Patent Office on Trade-Marks, Labels, and Prints	854
Trade-Marks Published (244 Applications)	857
Trade-Mark Registrations Granted	883
Trade-Mark Registrations Renewed	891
Labels	891
Prints	892
Reissues	893
Patents Granted	896
Designs	1055

July 25, 1939

Trade-Marks	175	No. 369,381 to No.	369,555, inclusive.
T. M. Renewals	15		
Labels	10	No. 53,305 to No.	53,314, inclusive.
Prints	4	No. 17,517 to No.	17,520, inclusive.
Reissues	9	No. 21,157 to No.	21,165, inclusive.
Patents	692	No. 2,166,927 to No.	2,167,618, inclusive.
Designs	74	No. 115,827 to No.	115,900, inclusive.
Total	979		

Notice of Cancellation

U. S. Patent Office, *Washington, D. C., July 5, 1939.*

Lourania N. Smith, her assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office by The Knox Company, 1651 North Argyle, Los Angeles, Calif., to effect the cancellation of trade-mark registration of Lourania N. Smith, Liberty, Mo., No. 197,483, dated April 21, 1925, and the notice of such proceeding sent by registered mail to the said Lourania N. Smith at the said address and reforwarded to her at Hotel Delmonte, 5630 Delmar Boulevard, St. Louis, Mo., having been returned by the post office undeliverable, notice is hereby given that unless said Lourania N. Smith, her assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Adjudicated Patents

(D. C. N. Y.) Gookin patent, No. 1,748,951, for method of inserting fasteners, claims 2, 3, and 6 *Held* valid and infringed. *United Shoe Machinery Corporation* v. *Atlas Tack Corporation*, 27 F. Supp. 499.

(D. C. N. Y.) Gookin patent, No. 1,748,952, for eyelet, claims 6, 8, 10, 11, 15, and 17 *Held* valid and infringed. *Id.*

Disclaimers

2,097,696.—*Walter Macdonald*, North Providence, R. I. Self Cleaning Atomizer. Patent dated November 2, 1937. Disclaimer filed June 28, 1939, by the inventor; the assignee, *American Moistening Company*, agreeing and consenting.

Hereby enters this disclaimer to claims 13, 14, 16, and 17 of said Letters Patent.

2,117,487.—*George R. Lewers*, Brooklyn, N. Y. Incineration. Patent dated May 17, 1938. Disclaimer filed July 6, 1939, by the assignee, *Underpinning & Foundation Company, Inc.*

Hereby enters this disclaimer to claims 1, 2, 3, 6, and 9 in said specification.

2,120,767.—*Francis M. Raver*, York, Pa. Refrigeration Apparatus. Patent dated June 14, 1938. Disclaimer filed June 29, 1939, by the assignee, *York Ice Machinery Corporation.*

Hereby enters this disclaimer to claim 2 in said specification.

2,125,636.—*William W. Holland*, Baltimore, Md. Method of Stabilizing Gasolines. Patent dated August 2, 1938. Disclaimer filed July 1, 1939, by the assignee, *Petroleum Conversion Corporation.*

Hereby enters this disclaimer of all the claims in said Letters Patent.

2,128,161.—*Leo Clark Morgan*, Wichita, Kans. Well Treating Fluid. Patent dated August 23, 1938. Disclaimer filed July 3, 1939, by the patentee.

Hereby disclaims from the scope of claim 4 any and all alkali metal alkyl sulfates except those containing the oleyl group.

Condition of Applications Under Examination at Close of Business July 8, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 44,420; Trade-Mark Division, 1,391. Oldest new case, Dec. 16, 1938; oldest amended, Dec. 9, 1938.)
(The dates given are 1939 except where † indicates 1938)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Feb. 14	Feb. 11	682
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Feb. 4	Feb. 15	697
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 3	May 4	418
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Apr. 5	Apr. 4	477
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Apr. 10	Apr. 17	482
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Jan. 23	Jan. 25	992
5725	7. JARBOE, C. G., Optics; Photography	Mar. 21	Mar. 13	928
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	†Dec. 21	Jan. 16	1164
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 7	Mar. 8	739
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Mar. 20	Mar. 23	625
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 23	Mar. 21	456
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Jan. 10	Jan. 4	565
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning Boring and Drilling.	Jan. 31	Jan. 28	733
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	Apr. 25	Apr. 24	470
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Feb. 20	Feb. 21	1193
5716	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 15	Feb. 4	829
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 6	Mar. 6	575
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Jan. 14	Jan. 19	551
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Apr. 20	Mar. 23	416
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Apr. 5	Apr. 4	395
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 7	Feb. 23	537
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Feb. 4	Feb. 4	917
7624	23. BUTTNER, W. J., Registers (part)	Jan. 11	Jan. 5	285
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Jan. 16	Jan. 16	1179
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 3	Apr. 6	496
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Feb. 17	Feb. 15	627
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Dec. 16	†Dec. 9	1234
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Mar. 16	Mar. 11	462
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Feb. 7	792
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Feb. 6	Feb. 8	844
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Mar. 31	Mar. 28	664
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Apr. 1	Apr. 4	383
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Apr. 14	Apr. 11	728
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Apr. 8	Apr. 8	359
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 21	Mar. 24	580
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Feb. 3	Feb. 8	590
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 5	Apr. 1	617
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Jan. 7	Jan. 6	762
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 1	Mar. 11	612
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Feb. 7	Feb. 7	1529
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Jan. 16	Jan. 17	358
5882	42. CUTTING, H. O., Electric Signaling	Jan. 12	Jan. 7	614
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Mar. 11	Mar. 8	558
4087 B	44. HARVEY, L. P., Refrigeration	Feb. 9	Feb. 6	694
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Mar. 25	Mar. 18	586
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Feb. 8	Feb. 8	735
6082	47. LOWE, E. R., Clutches; Brakes	Mar. 11	Mar. 13	410
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 10	Apr. 10	445
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Jan. 5	Jan. 11	1092
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Jan. 11	Jan. 11	1259
5628	51. BACKUS, C. D., Radiant Energy (part)	Apr. 12	Apr. 12	717
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Feb. 23	Mar. 2	814
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Mar. 13	Mar. 15	533
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 23	Mar. 23	348
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Jan. 5	Jan. 10	695
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Feb. 8	Feb. 8	1190
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Mar. 13	Apr. 19	457
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Mar. 27	Mar. 20	412
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Mar. 7	Mar. 9	574
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Mar. 4	Mar. 4	438
6724	61. LAMAN, JAMES (Act.), Laminated Electricnl Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Feb. 8	Feb. 11	520
5621	62. PUGH, E. C., Games; Geometrical Instruments	Apr. 26	May 1	498
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Jan. 6	Jan. 11	695
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Mar. 15	Mar. 15	851
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Feb. 28	Feb. 17	599
2099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	June 1	June 13	1330
	{Labels and Prints	July 1	July 1	61
2605	Designs: H. H. KALUPY	May 23	June 6	744

DECISIONS IN PATENT AND TRADE-MARK CASES

Supreme Court of the United States

THE TOLEDO PRESSED STEEL COMPANY
v.
STANDARD PARTS, INC.
THE TOLEDO PRESSED STEEL COMPANY
v.
HUEBNER SUPPLY COMPANY
MONTGOMERY WARD & COMPANY, INC.
v.
THE TOLEDO PRESSED STEEL COMPANY

Nos. 166, 167, and 603. Decided May 29, 1939

PATENTABILITY—BURNER FOR WARNING SIGNALS—WITHROW AND CLOSE PATENT No. 1,732,708.

Withrow and Close Patent No. 1,732,708 *Held* void for lack of invention in view of the prior art.

NOS. 166 AND 167, ON WRITS of certiorari to the United States Circuit Court of Appeals for the Sixth Circuit. Affirmed.

No. 603, ON WRIT of certiorari to the United States Circuit Court of Appeals for the Second Circuit. Reversed.

Mr. Samuel E. Darby, Jr. and *Mr. Wilbur Owen* for The Toledo Pressed Steel Company.

Mr. Carl V. Wisner, Jr. (*Mr. Anthony William Deller* and *Mr. Carl V. Wisner* with him on the brief) for Montgomery Ward & Company, Inc.

Mr. W. P. Bair (*Mr. Will Freeman* with him on the brief) for Standard Parts, Inc., and Huebner Supply Company.

Mr. Justice BUTLER delivered the opinion of the Court.

These are patent infringement suits brought by the Toledo Pressed Steel Company, owner of Withrow and Close Patent No. 1,732,708, issued October 22, 1929, for a burner for use in outdoor warning signals such as construction torches and truck flares. The first two suits were brought in the Federal Court for the Northern District of Ohio. It filed an opinion indicating the facts that it deemed established by the evidence and without formal findings held the patent valid and infringed by the Bolser and Karl-Keen flares respectively sold by the defendants. The Circuit Court of Appeals for the Sixth Circuit held the patent invalid for want of invention and reversed. 93 F.(2d) 336. The other suit was brought in the Federal Court for the Eastern District of New York. It made findings as required by rule 70½, held plaintiff's patent invalid, and dismissed the bill. The Circuit Court of Appeals for the Second Circuit held the patent valid and infringed by the Anthes flare sold by the defendant, and reversed. 99 F.(2d) 806.

In the interest of plaintiff, seeking to uphold the patent prima facie valid, and of the public, liable to exclusion from manufacture, use, or sale in virtue of the right it purports to confer, final adjudication as to validity is of primary importance. The patent in suit relates to torches for guarding street obstructions and to flares, which are large torches, for warning that vehicles are stopped on the road.

Formerly, red lanterns were much used. But, after general use of automobiles having red tail lights to some extent resembling them, they did not serve so satisfactorily as before. Open-flame torches came to be extensively employed. The motion of the luminescent flame distinguishes them from other signals. But there were complaints that they were sometimes extinguished by wind or rain.

Open-flame torches in use for some years before patentees' claimed invention, included those which were bomb-shaped, flat-bottomed, weighted for stability, and with an opening in the top for a wick. That type was well known, at least after the patent covering it, McCloskey No. 1,610,301, was issued December 14, 1926; in 1929 it was held invalid by the Circuit Court of Appeals for the Sixth Circuit for lack of invention and because anticipated. *McCloskey* v. *Toledo Pressed Steel Co.*, 30 F.(2d) 12. Plaintiff had a large business in the manufacture and sale of torches, including the McCloskey type. It advertised that they would burn in all kinds of weather; having received many complaints of extinguishment by wind and rain, patentees, respectively plaintiff's president and vice president, set about producing something to make them dependable and to serve as represented. Within a year, but after experiments, trials, and failures, they brought forward the patented device.

The specification states that the claimed invention particularly relates to devices to increase efficiency and to prevent flame extinguishment. It declares that the objects of the invention are to provide a simple attachment to attain those ends and a burner so constructed that liability of extinguishment by wind or rain will be reduced to a minimum. It further says that with the described construction and arrangement consumption of oil and wick is materially decreased.

The claims involved are printed in the margin.[1] Considered together, unobscured by artificiality in their statement, it fairly may be said that they show that all that the patentees did was to put over the wick of a torch, well known in the art, an inverted metal cuplike cap having holes in its sides, some to let in air for combustion and others to let out flame. The cap was also well known and had been used as a part of other devices for the protection of kerosene and other flames.

A number of devices patented earlier than plaintiff's included the elements essential to its burner.

[1] In all the cases, claims 2, 5, 11, and 12 are involved. In Nos. 166 and 167, claim 13 is also involved. In No. 167, claims 1, 6, and 7 are also involved.

1. In a device of the class described, a torch body having an opening at its upper end, a wick-receiving tube extending into said opening, and a cap disposed on the outer side of said torch body to enclose the outer end of the wick, said cap having an imperforate upper wall, lateral flame openings, and air openings below the flame openings.

2. In a device of the class described, a torch body having an opening for a wick, and a flame guard for said wick mounted on the outside of said torch body, said

Billingham patent, No. 191,031, issued August 15, 1876, related to torches for lighting street-lamps. It shows a wick-type torch with a tube-like cap having holes, some to let in air, and others to let the flame come out. This cap, imperforate at the top, serves to prevent extinguishment of the flame by wind or rain. Almond patent, No. 193,796, issued August 7, 1877, related to vapor burners for heating. The device, some parts detached, serves as an illuminating lamp consisting of a body, a wick holder, a cap, a flange having a rim supporting a tube closed at the top. Holes are in the rim to admit air; larger ones in the tube are to let the flames out. Rutz patent, No. 1,101,146, issued June 23, 1914, covers a flash igniter for gas stove burners. It has a cap to guard the flame and adapted to emit flames extending from the igniter to the gas burners to be lighted. This cap, like plaintiff's, has a supporting and heat receiving flange, a means to enclose the space above the flange and a restricted entrance to admit air for combustion. The record shows that the Rutz hood has been used to achieve the identical results attained by plaintiff's device.

There are other patents, issued before patentees developed the structure in suit, that may be referred to as relevant to the issue of invention in this case. Examples of these are cited in the margin.[3]

The torch body was old in the art to which it belonged. The cap, as part of devices used in other fields, was old and useful to prevent extinguishment of flames by wind or rain and to permit flames to extend through holes to the open air. The problem patentees set for themselves was to prevent extinguishment while preserving usefulness of the flames as warning signals. They solved it by merely bringing together the torch and cap. As before, the torch continued to produce a luminescent, undulating flame, and the cap continued to let in air for combustion, to protect the flame from wind and rain and to allow it to emerge as a warning signal. They performed no joint function. Each served as separately it had done. The patented device results from mere aggregation of two old devices, and not from invention or discovery. *Hailes* v. *Van Wormer*, 20 Wall. 353, 368. *Reckendorfer* v. *Faber*, 92 U. S. 347, 357, 9 O. G. 71. *Lincoln Co.* v. *Stewart-Warner Corp.*, 303 U. S. 545, 549–50. On the records before us, it is impossible to hold that production of the patented device required more than mechanical skill and originality attributable to those familiar with the art of protecting flames of kerosene and other burners. *Altoona Theatres* v. *Tri-Ergon Corp.*, 294 U. S. 477, 486, 452 O. G. 705; *Powers-Kennedy Co.* v. *Concrete Co.*, 282 U. S. 175, 186, 402 O. G. 517; *Concrete Appliances Co.* v. *Gomery*, 269 U. S. 177, 184, 185, 342 O. G. 507; *Hollister* v. *Benedict Manufacturing Co.*, 113 U. S. 59, 72–73.

As evidence in its favor on the question of invention, plaintiff cites efforts to find something useful to protect open-flame torches from extinguishment by wind or rain put forth by one engaged in operation of a street railway and by another employed by a manufacturer of lanterns. But it does not appear that either was familiar with the relevant prior art. Nor is there any evidence of general or widespread effort to solve the problem here involved. There is nothing that tends to raise what patentees did to the realm of invention. See *Paramount Corp.* v. *Tri-Ergon Corp.*, 294 U. S. 464, 476, 452 O. G. 701. Plaintiff also brings forward the fact that some manufacturers, including three substantial ones, have taken licenses under its patent. It does not appear that these licensees have made wide or successful use of the device. Lack of novelty being clearly shown, acceptance of license under the circumstances of this case, is without weight. *Thorpp's Sons Co.* v. *Seiberling*, 264 U. S. 320, 330, 327 O. G. 441. *John T. Riddell* v. *Athletic Shoe Co.*, 75 F.(2d) 93, 95. And similarly without significance on the question of novelty is the fact that, as plaintiff claims, utility resulted and commercial success followed from what patentees did. *Firestone Tire & Rubber Co.* v. *United States Rubber Co.*, 79 F.(2d) 948, 954.

It results that the decrees in Nos. 166 and 167 must be affirmed and that in No. 603 must be reversed.

It is so ordered.

Mr. Justice DOUGLAS took no part in the consideration or decision of this case.

guard including a cap provided with an imperforate top wall and lateral flame openings adapted to emit a luminescent flame, and air ports.

5. In a device of the class described, a construction torch having an opening in its upper end for a wick, means to hold the wick in place, and a guard fitting over the outer end of the wick but spaced from the sides thereof, said guard having an imperforate top wall and side flame and air openings.

6. In a device of the class described, a torch body having a wick-opening, a tube for receiving the wick and adapted to extend inside of the torch body, an outwardly extending flange in the region of said wick-opening, and a cap connected to said flange and having an imperforate top wall, said cap having a flame opening adjacent its outer end and an air port beneath said flame opening.

7. In a device of the class described, a torch body having a wick-opening, a cap for enclosing the outer end of the wick but spaced from the sides thereof, an imperforate end wall for said cap, said cap having a series of flame openings and a series of air ports beneath the flame openings, and a disc adapted to embrace the wick and having a flanged upper portion disposed in the region of said air ports.

11. A burner for a construction torch adapted to emit a luminescent flame and comprising a wick holder having a portion in contact with the wick and a supporting and heat-receiving flange, and means enclosing a space above said flange and surrounding the wick except for provision for lateral exit of flame and restricted entrance of air for combustion.

12. A burner for a construction torch adapted to emit a luminescent flame and comprising a wick holder having a portion in contact with the wick and a lateral flange, and a cap enclosing and spaced from the end of the wick and having an imperforate top and provision for lateral exit of flame and entrance of air, and the bottom of the cap being in heat conducting relation to said flange.

13. A burner for a construction torch adapted to emit a luminescent flame and comprising a wick holder having a portion in contact with the wick and a laterally extending flange and a cap over the wick, the cap having an imperforate, dome-shaped top wall, a lateral flame opening approximately even with the top of the wick and a smaller opening for the inlet of air lower than the flame opening and above the lower edge of the cap, said lower edge being in heat-transferring relation to said flange.

[3] Blake patent, No. 453,335, June 2, 1891. Heston patent, No. 270,587, Jan. 16, 1883. Reekie patent, No. 192,130, June 19, 1877. Kahn patent, No. 1,175,527, Mar. 14, 1916.

U. S. Court of Appeals for the District of Columbia

THE AMERICAN STEEL AND WIRE COMPANY OF NEW JERSEY *v.* COE, COMMISSIONER OF PATENTS

No. 7,161. Decided March 27, 1939

Petition for Rehearing Denied June 26, 1939

BILL UNDER SEC. NO. 4915 R. S.—A PROCEEDING DE NOVO AND NOT AN APPEAL. ANY PRIOR ART MAY BE CONSIDERED.

Held that prior art not in the record of the prosecution of an application in the Patent Office and not relied on in the Commissioner's answer to a bill under sec. 4915 R. S. may be properly received in evidence and properly considered. "The proceeding under section 4915 R. S., is a proceeding de novo in equity and, while the inquiry therein must be confined to the invention claimed in the Patent Office, nevertheless, 'It is not a technical appeal from the Patent Office, like that authorized in sec. 4911, confined to the case as made in the record of that office, but is prepared and heard upon all competent evidence adduced and upon the whole merits'."

PATENTABILITY—METHOD OF MAKING SUSPENSION BRIDGE CABLES.

Claims for a method of making suspension bridge cables *Held* unpatentable over the prior art.

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. John E. Jackson and *Mr. E. W. Shepard* for The American Steel and Wire Company of New Jersey.

Mr. R. F. Whitehead for the Commissioner of Patents.

Before STEPHENS, MILLER and EDGERTON, Associate Justices

MILLER, *A. J.*:

Appellant, plaintiff below, is the assignee of James Forrest Howe, applicant for a patent upon a process for the manufacture or construction of large size suspension cables used in bridges and similar structures. Three claims were relied upon in the lower court.[1] The lower court dismissed the bill, holding that—

"the method here described sufficiently appears from the prior art . . . [and does] not rise to the dignity of invention."

[1] The Patent Office relied upon three references[2] to show the prior art. The lower court relied upon an additional one, i. e., the patent to Howe, No. 1,427,471, August 29, 1922. Appellant now contends that this patent was not relied upon in appellee's answer in the lower court, hence that it was not properly before the court for its consideration. This is a remarkable contention, in view of the fact that it was appellant which, as plaintiff in the lower court, introduced the Howe patent of 1922, and designated it for inclusion in the transcript of record. But, in any event, it was properly received in evidence and properly considered. The proceeding under section 4915, R. S., is a proceeding de novo in equity and, while the inquiry therein must be confined to the invention claimed in the Patent Office,[3] nevertheless,

"It is not a technical appeal from the Patent Office, like that authorized in § 4911, confined to the case as made in the record of that office, but is prepared and heard upon all competent evidence adduced and upon the whole merits."[4]

The process for which invention is claimed consists of five steps, the first four in the factory and the fifth at the bridge site, as follows: (1) Several individual steel wires are twisted together into a strand; (2) this strand is then stretched and conditioned to remove the slack; (3) the strand is then measured for length; (4) the ends of the strand are fastened to prevent untwisting and slackening. When these strands have been so prepared they are (5) taken to the bridge site and there laid parallel and fastened together in sufficient number to form a cable of the desired diameter.

It was conceded on oral argument that there is nothing new in the use of steel wires in strands; in the use of strands themselves; in the use of hydraulic pressure to stretch and condition wire; in the measuring of strands; in the end-fasteners used or in the end-fastening operation itself; or in the laying of strands parallel and fastening them together into cables at the bridge site. It is contended, however, that the use of all these steps, in combination and in sequence, constitutes a new process, which makes for convenience and a great reduction in expense over the practice of assembling the individual steel wires into cables at the bridge site.

[2] In our opinion there was no invention. The method described consists merely of a rearrangement or new combination of old mechanical operations. The fact that the new combination accomplishes a better result is not enough to evidence invention,[5] because it required no more than the exercise of ordinary mechanical skill for its accomplishment.[6]

The result sought by the applicant was a suspen-

[1] Claim 10, which is typical, reads as follows: "The method of making suspension bridge cables which consists in forming a series of wires into spirally wound strands of the required length and diameter and stretching, conditioning, measuring and attaching end fastenings to the so formed strands in the mill, then assembling a series of the so formed strands in lengthwise parallel relation at the bridge site, and fastening the assembled strands together in completing the cable."

[2] Greer, No. 411,499, September 24, 1889; Rieppel, No. 625,902, May 30, 1899; Engineering Record, November 2, 1912, p. 489.

[3] *Lucke* v. *Coe*, 69 F.(2d) 379, 382, 63 App. D. C. 61, 64.

[4] *Butterworth* v. *United States ex rel. Hoe*, 112 U. S. 50, 61. See also, *Curtiss Aeroplane & Motor Corp.* v. *Janin*, 2 Cir., 278 F. 454, 455; *General Talking Pictures Corp.* v. *American Tri-Ergon Corp.*, 3 Cir., 96 F.(2d) 800, 812. Cf. *Barrett Co.* v. *Koppers Co.*, 3 Cir., 22 F.(2d) 395.

[5] *Buchanan* v. *Wyeth Hardware & Mfg. Co.*, 8 Cir., 47 F.(2d) 704, 707; *Western Willite Co.* v. *Trinidad Asphalt Mfg. Co.*, 8 Cir., 16 F.(2d) 446, 450, cert. denied, 274 U. S. 737.

[6] *Electric Cable Joint Co.* v. *Brooklyn Edison Co., Inc.*, 292 U. S. 69, 79; *Altoona Public Theatres, Inc.*, v. *American Tri-Ergon Corp.*, 294 U. S. 477, 486; *Atlantic Works* v. *Brady*, 107 U. S. 192, 200; *Pearce* v. *Mulford*, 102 U. S. 112, 117, 118; *Patent & Licensing Corp.* v. *Weaver-Wall Co.*, 6 Cir., 95 F.(2d) 182, 183; *Minnesota Mining and Mfg. Co.* v. *Coe*, 99 F.(2d) 986, — App. D. C. —; *L. Sonneborn Sons, Inc.*, v. *Coe*, (No. 7126, decided March 20, 1939) — F.(2d) —, — App. D. C. —; *Thomson Spot Welder Co.* v. *Ford Motor Co.*, 6 Cir., 281 F. 680, 684, aff'd., 265 U. S. 445: "In other words, given the desire for a welding in spots, naturally enough suggested by the prior art and by its commercial development, we think Harmatta's specific application of the principles of that prior art involved only the skill of the expert mechanic. Not only every principle, but every electric and mechanical process, involved in the Harmatta claims, was well known in the prior or directly analogous arts, or in mechanical arts generally." Cf. *In re Armstrong*, C. C. P. A., 83 F.(2d) 924, 926.

sion bridge cable, anchored in place, from which the slack had been removed so that when the weight of the bridge was placed thereon, the cable would not stretch. Although in argument, the "preconditioning" steps were emphasized, examination of the claims will show that it is the whole method of "making suspension bridge cables" which is claimed, and each step is specified therein from (1) forming wires into strands to (5) fastening the assembled strands together and completing the cable. The result above stated has been long achieved by the parallel placement of individual wires. Moreover, the parallel placement of strands in the making of suspension cables is at least foreshadowed in the Greer patent, No. 411,499, September 24, 1889,[7] and in the article in Engineering Record, November 2, 1912, p. 489.[8]

Moreover, it should be noted that there is no evidence to show that the stretching or sagging, which the applicant proposed to prevent, had ever occurred in cables constructed either by the method of laying individual wires or by the method of laying strands as revealed in the Greer patent and in the Engineering Record. Appellant clearly states in its brief:

"The present invention resulted from the failure and impracticability of cables composed of individual units such as ropes."

The significance of this statement appears when it is realized that the attempt to make cables with rope units was the idea of Howe—the original applicant in the present case—expressed in his 1922 patent, No. 1,427,471. In other words, Howe, in 1922, attempted to devise a more economical method of making suspension cables by prefabricating rope units in the factory. The problem of stretching apparently was unknown at that time, because he does not mention it in his 1922 patent. When he attempted to put his patent into operation he discovered that cables made with prefabricated steel ropes stretched when the bridge load was imposed. It was to avoid a defect in his own new method of 1922, then, that he proposed the method of the present application. But the fact that his own intervening proposed method developed a fatal defect cannot hide the fact that the present application proposes nothing more than a simple combination of well known mechanical operations.

What appellant seeks, therefore, is a patent upon a method or process which consists of a series of old, familiar mechanical operations, most of which had been long used in combination in cable making. The theory of its claim is that the applicant improved one part of the process, i. e., by preconditioning strands. But this one improvement alone is not more than a mere exercise of mechanical skill and its addition to the process would, therefore, not permit appellant to claim as an invention the whole combination of elements thus involved.[9]

Affirmed.

[7] "2. In a suspension-bridge, a cable composed of parallel strands suitably bound together and provided with opposite sleeves, from which the strands diverge, . . ."

[8] "The galvanized seven-strand cables 4½ in. in diameter are neither wound nor jacketed, . . . Each end of each cable strand is socketed and receives a short 2¼-in. diameter U-bolt. . . . The strands diverge from a heavy collar clamped to the cable just beyond the river face of the anchorage."

[9] *Lincoln Engineering Co.* v. *Stewart-Warner Corp.*, 303 U. S. 545, 549–550: "The mere aggregation of a number of old parts or elements which, in the aggregation, perform or produce no new or different function or operation than that theretofore performed or produced by them, is not patentable invention. And the improvement of one part of an old combination gives no right to claim that improvement in combination with other old parts which perform no new function in the combination.", and see cases there cited; *In re Germantown Trust Co.*, C. C. P. A., 57 F.(2d) 365, 366: "A combination, to be patentable as such, must disclose a novelty of cooperation between its elements which produces a new result and amounts to invention, and the mere fact that some elements are themselves novel and possibly patentable as individual elements does not render the combination containing them patentable in the absence of such novel co-operative relation in the combination itself."; *In re Reed*, C. C. P. A., 76 F.(2d) 907, 909–910.

U. S. Court of Customs and Patent Appeals

WALSKO *v.* SMITH

No. 4,063. Decided February 27, 1939

[102 F.(2d) 815]

1. INTERFERENCE—PATENTABILITY OF COUNTS NOT CONSIDERED BY COURT.
   "It is too well settled to require extended argument or citation that questions relating to patentability of the count of an interference are not matters of which we can take cognizance in this character of proceeding."
2. SAME—PRIORITY.
   Record reviewed and *Held* that the original disclosure in the application of the senior party S supports the count, that S was not estopped to make the count because of his cancellation and subsequent reinsertion of matter supporting the count, that the junior party W had not shown that S's original disclosure was not operable, and that priority was properly awarded to S.

APPEAL from Patent Office. Affirmed.

Messrs. Pennie, Davis, Marvin and Edmonds (*Mr. Louis D. Forward* and *Mr. Clarence M. Fischer* of counsel) for Walsko.

Mr. Charles W. Parker and *Mr. Max D. Farmer* for Smith.

BLAND, *J.:*

This is an appeal by Walsko, the junior party, from a decision of the Board of Appeals of the United States Patent Office, affirming that of the Examiner of Interferences in awarding priority of invention of a single count to the senior party Smith.

The count reads as follows:

In refining hydrocarbon mineral oil, the improvement which comprises subjecting the oil to the action of nitrobenzene and sulphuric acid at the same time.

On August 1, 1931, the party Walsko filed his application in the Patent Office relating to an improvement in the refinement of lubricating oils derived from petroleum. Refining or purifying lubricating oils by a treatment with sulphuric acid was old in the art before either party entered the field. Walsko's invention consisted in mixing with the lubricating oil to be treated a large quantity of nitrobenzene and a relatively small quantity of sulphuric acid at the same time. The proportions given were nitrobenzene from 50 per cent. to 400 per cent. of the volume of the oil, and sulphuric acid from 0.1 to 10 pounds per barrel of oil treated. It was found that by applying this process there was a great improvement of the refined product in stability, color, viscosity index and in the reduction of the carbon residue when given the Conradson test, as well as other claimed beneficial results. There was no chemical reaction between the sulphuric acid and the nitrobenzene.

During the prosecution of the Walsko application the Primary Examiner suggested the count at bar for interference purposes to the senior party Smith, who copied it, and the interference proceedings were begun. Smith had filed his application on February 27, 1930, the application being "for Method of removing impurities from hydrocarbon compounds and mixtures thereof." The application as filed described in a general way the use of certain so-called accelerating or inhibiting agents along with the sulphuric acid treatment in bringing about the removal of sulphur and other impurities. The application was quite indefinite as to the quantity of the inhibiting agents suggested except that it was stated that the quantity was "in general less than the molal quantity of the sulphur removal agent employed." Smith then proceeded to suggest what the Primary Examiner stated would include between 5,000 and 10,000 different inhibiting compounds, which, when combined with the 200 different acidic substances named, would require, according to the Examiner, between one million and two million individual experiments to determine their applicability. Among the inhibiting agents nitrobenzene was named. It was not there disclosed nor is it here contended that the inhibiting agents named were equivalents.

The claims in Smith's application were rejected on various grounds. New claims were substituted and finally, in order to secure the allowance of certain claims, it was found necessary for Smith to strike from his application all reference to the inhibitors except that originally listed as furfural. All references in the specification to the other inhibitors were deleted, together with claims covering the same. About two and a half months after having cancelled from his application the said subject matter, he, when notified by the Examiner to copy the count here involved for interference purposes, amended his application to disclose and claim the use of nitrobenzene as an accelerator or inhibiting agent. The application as amended, therefore, discloses the use for said purposes of both furfural and nitrobenzene.

Walsko was duly notified to show cause why judgment on the record should not be entered against him. In response to this order, and during the motion period, Walsko moved to dissolve the interference on substantially the following grounds:

First. Irregularity in the declaration of the interference in that no application of the party Smith containing a disclosure of the process involved in the count was in existence at the time the interference was declared.

Second. That the party Smith had no right to make the claim because his original disclosure was too indefinite to support the issue or meet the requirements of the statute.

Third. That the party Smith had no right to make the claim because the application contained no operative disclosure.

Fourth. That the party Smith had no right to make the claim because the claim was broader than the invention.

Fifth. That the interference count was unpatentable in that no utility was shown.

Sixth. That Smith should be estopped from reinstating and claiming said subject matter after he had cancelled the same and concealed the invention until spurred into activity by knowledge of Walsko's application.

After much argument, discussion, and preliminary rulings by the Examiner of Interferences, and an interlocutory appeal to the Commissioner of Patents asking him to exercise his supervisory authority, it was held by the Examiner of Interferences that the party Smith was "estopped to assert the claim in issue" for the reason that he had cancelled all the specific subject matter upon which the issue might be based as well as the claims defining said subject matter. The Examiner of Interferences pointed out that there was no requirement for division made nor was there any indication that the cancellation was made for the purpose of division and that Smith's action in cancelling said matter constituted a disclaimer of the subject matter in issue.

From the decision of the Examiner of Interferences dissolving the interference on the ground stated, Smith took an appeal to the Board of Appeals which reversed the decision of the Examiner of Interferences and held as follows:

The limitation of the count which was cancelled from the Smith application during its prosecution is found in the statement of the use of nitro-benzene. This particular inhibiting agent was disclosed in the original specification but later was cancelled therefrom. The claims indicated as being allowable during the prosecution recited the use of furfural. After such restriction of the Smith application, the Examiner suggested to Smith the claim of the count. It is the contention of Walsko that Smith has abandoned its subject matter.

We are unable to agree with the Examiner that this contention is sound. The Smith application has not matured into a patent and Smith is entitled at any time before a patent issues thereon and while the application is still pending, to file a divisional application claiming the subject matter of the count. In view of the practice approved in *Ex parte Priebe*, 1915 C. D. 39, he is also entitled to insert the claim of the count in his application involved in this proceeding for interference purposes. We fail to see wherein there has been established any abandonment by Smith of the invention defined in the count.

The Examiner of Interferences having overruled the motion of Walsko on all other grounds, except that relating to the nonpatentability of the count, which he declined to consider, and being bound by the decision of the Board of Appeals in its reversal of his decision dissolving the interference, awarded priority to the senior party Smith. Walsko then presented a motion to set aside the award of priority in order that he might have the opportunity of taking testimony to show that the Smith application contained no operative disclosure of the method defined by the count in issue. The motion was granted and much testimony was taken by Walsko in an attempt to show that Smith did not disclose a method operative to produce useful results. Smith also took some testimony for the purpose of show-

ing the operability of the method of his disclosure. The Examiner of Interferences in his final decision recapitulated the history of the case and proceeded to decide the question raised relating to the subject of inoperativeness. Much space was devoted to a discussion of the evidence on this subject, but he concluded that Walsko had not established by a preponderance of the evidence that the Smith disclosure was inoperative and awarded priority of invention of the count to the senior party Smith.

Appeal was taken by Walsko to the Board of Appeals. The Board first took up the question of inoperativeness, discussed the various tests which Walsko had made; held that the record did not show that the disclosure of the Smith specification was in all respects inoperative, and in substance held that the said tests did show certain useful results and that Smith was not required to show that he understood all the advantages flowing from his invention but was entitled to all that did flow from it. Concerning patentability the Board said:

> Moreover, Walsko states his invention is directed to improvements in lubricating oils and not as broadly expressed in the count. He has practically disclaimed the issue so no award of priority could be granted him and he might even be allowed a claim to such lubricating oil. We note Walsko did not attempt to raise the question of patentability on motion.

On the question raised by Walsko in his motion to dissolve, relating to the cancellation by Smith from his application of all matter relating to the instant invention and subsequently re-inserting and claiming it, the Board merely called attention to its former interlocutory ruling on that subject. It affirmed the action of the Examiner in awarding priority to Smith.

[1] Appellant appealed from the decision of the Board to this Court and here raises many questions, among them being the question of the patentability of the method of the count. It is too well settled to require extended argument or citation that questions relating to patentability of the count of an interference are not matters of which we can take cognizance in this character of proceeding. *Ufer and Niemann* v. *Williams*, 23 C. C. P. A. (Patents) 797, 79 F.(2d) 892, 1936 C. D. 147; *Brogden* v. *Slater*, 17 C. C. P. A. (Patents) 1240, 40 F.(2d) 988, 1930 C. D. 514; *Gowen* v. *Hendry et al.*, 17 C. C. P. A. (Patents) 789, 1930 C. D. 155.

We think the record presents for our decision the following questions involved in the motion to dissolve the interference:

First. Does Smith's original disclosure support the count in issue so as to give him the advantage of his original filing date?

Second. Does Smith's recited conduct with reference to the cancellation and subsequent reinsertion of all matter which supports the count at bar require that the interference be dissolved on the ground that Smith had no right to make the claim?

Third. Is the method of the Smith disclosure operative?

All other questions raised by appellant's reasons of appeal are so related to the foregoing three that their decision is decisive of every issue here presented. The first two questions present some perplexing aspects upon which, as applied to the particular circumstances at bar, there is very little authority to be found.

As to whether Smith's original disclosure supports the count in issue, it is contended by Walsko that the application was so multifarious in the naming of the various inhibitors as to be so indefinite as not to comply with the statute, and that no valid claim could properly have been allowed upon the original disclosure since it did not teach the art anything of utility and that millions of experiments would be required to ascertain if the applicant had discovered anything of value.

[2] After much consideration we find ourselves in agreement with the tribunals below in holding that, notwithstanding the defects in Smith's original application, pointed out by Walsko, it was properly regarded as disclosing the invention of the count for the purpose of interference. It did disclose the use at the same time of sulphuric acid and nitrobenzene in the removal of certain impurities from hydrocarbon oils. It seemed to be a controlling influence with the tribunals below that appellee's original disclosure, if in a publication, would have been regarded as anticipatory of the count involved. Smith disclosed the use of sulphuric acid and nitrobenzene, in the manner described, to accomplish certain results in the art involved, and it is not important that his aim in adding the admixture was the same as that stated in Walsko's application or that all the same results were obtained. It seems to us, on this phase of the case, that it was sufficient if he disclosed the use at the same time of the ingredients in accomplishing any useful purpose in refining hydrocarbon mineral oils.

On the second question relating to the right of Smith to make the claim because of his cancellation and subsequent reinsertion of matter supporting the count at bar we also are in agreement with the Board of Appeals in its original ruling on the question and its decision to that effect which is here appealed from. Smith has argued at great length in this Court that his cancellation of the disputed matter was not with the intent of abandonment but was for the definite purpose of later including the same in a divisional application. Much unwarranted argument, upon statements of facts not disclosed in the record, is indulged in the Smith brief which is not to be commended. There is nothing in this record, as was pointed out by the Examiner of Interferences in one of his decisions on the motion to dissolve, which discloses affirmatively that Smith's cancellation was in response to any order for division (the record discloses no such order) or that Smith intended at the time of cancellation to later cover the cancelled subject matter by a divisional application. Notwithstanding this fact, we are confronted with the proposition that Smith did clearly have the right by virtue of his original disclosure to claim in a divisional application, at any time before his patent issued, the nitrobenzene subject matter which is the heart of the controversy involved here. Since this was his privilege it must be concluded that there was such continuity as the law requires between his original application and any divisional application which he might subsequently file prior to the issuance of his patent.

A somewhat similar situation existed in the case decided by this Court in *Writer* v. *Kincad*, 20 C. C. P. A. (Patents) 869, 63 F.(2d) 259, 1933 C. D. 213. In that case at page 878 we said:

> In view of the facts of record, appellee, for interference purposes, might properly have been permitted to withdraw the amendment cancelling the drawings and descriptive matter, and to present the claim constituting the count in issue, and other claims to the involved invention (previously found to be allowable), in his 1926 application. *Ex parte Priebe*, 1915 C. D. 39, 221 O. G. 351; *Ex parte Stimson*, 1916 C. D. 20, 226 O. G. 699.
>
> There is no statutory provision, nor Patent Office rule, limiting the time in which a divisional application may be filed in order that it may constitute a continuance of a pending, not abandoned, parent application, which discloses the invention claimed in the divisional application. *Duryea* v. *Rice*, 28 App. D. C. 423, 434; *Robinson* v. *Heising*, 19 C. C. P. A. (Patents) 895, 55 F.(2d) 472; *Chapman* v. *Wintroath*, supra [252 U. S. 126]. Furthermore, *under the circumstances of this case*, mere delay in the filing of a divisional application is not evidence of abandonment of an invention. *Chapman* v. *Wintroath*, supra.

Walsko, in urging that the doctrine of estoppel should be applied to Smith, calls attention to but one decision of any tribunal which he claims to be in point on the question, *Benjamin T. Brooks* v. *Carleton Ellis*, a manuscript decision of the Board of Examiners-in-Chief (predecessor of the present Board of Appeals) in interference No. 40,012, dated January 15, 1917. This decision is cited in connection with Walsko's contention that Smith by his cancellation and subsequent conduct suppressed and concealed his invention until spurred into activity by Walsko, or the Primary Examiner on behalf of Walsko. It is argued that the same doctrine applies as was applied in such cases as *Mason* v. *Hepburn*, 13 App. D. C. 86, 1898 C. D. 510, where the estoppel arose from conduct subsequent to actual reduction to practice.

The *Brooks* v. *Ellis* decision has been examined with considerable care. The Board in the decision here appealed from and in its original decision, in which it reversed the action of the Examiner of Interferences on this particular question, makes no reference to that decision. In that case, Ellis sought to obtain the benefits, for interference purposes, of the filing date of an application from which he had cancelled certain disputed matter. He cancelled it upon an order for division. After Brooks had been granted a patent and Ellis became advised of the Brooks patent, he filed a divisional application claiming the disputed subject matter. Ellis delayed two years and three months from the time of the requirement of division until he filed his divisional application, and in the meantime Brooks had filed. The Examiners-in-Chief stated:

> • • • Under these circumstances the usual rule that the divisional application may be filed at any time during the pendency of the original should not apply, for Ellis is here asking the benefit of the date of his original application as a date of constructive reduction to practice as against his rival, who has been granted a patent and has given the public the benefit of the invention, in spite of the fact that Ellis had ceased for more than two years to prosecute his right to a patent on the interfering matter, and so far as appears, might never have given the invention to the public if he had not been stirred into activity by knowledge of the patent to Brooks. • • •

The difference between that case and the one at bar is sufficiently shown by the above-quoted language used by the tribunal to warrant the conclusion that if we were in agreement with that decision (as to which we express no view), it would not be regarded as controlling of decision of the instant issue. Walsko did not have a patent when the interference was declared, a period of only about two months had elapsed after the cancellation before the amendment was made, and there is nothing to indicate that in due course Smith might not have filed a divisional application so as to have claimed the disputed subject matter. The facts in that case indicate, in some respects, a definite intention to conceal and suppress until spurred into activity. We see nothing of similar nature appearing from the facts of record here.

The third question for decision relates to the effect to be given to the proof of both parties relating to operability. This question is somewhat related to the first question discussed, but certain aspects of it, we think, justify a separate consideration. The first question involves primarily the indefiniteness of the application, as originally filed, resulting from the multiplicity of inhibitors listed. The issue of operability was separately presented to the Patent Office tribunals upon the record made following the setting aside of the award of priority for the purpose of taking testimony on the subject of operability. Both tribunals concluded, and the correctness of this conclusion is vigorously challenged by appellant, that while the proof showed that all the beneficial results which belonged to the invention were not disclosed by the tests made by Walsko in following out the teachings of Smith's original disclosure, it did show that some good results flowed therefrom, that is to say, some utility was shown to result in the treatment of hydrocarbon oils, including lubricating oils, with sulphuric acid and nitrobenzene.

We have examined the record with care and agree with the tribunals below in this finding. Detailing here the many elaborate experiments and the results found therefrom discussed at length by the tribunals below would unduly extend this opinion and would serve no useful purpose. It would seem to us that if many unusual good results were obtained by Walsko in treating lubricating oils with sulphuric acid and nitrobenzene in the quantities stated by him, it could not logically be concluded that no useful results would be obtained by the treatment with the same materials, though in different quantities. It will be noticed that the count does not call for the use of any definite proportions of sulphuric acid or nitrobenzene. Under the circumstances, therefore, it cannot be said that the Board was in error in concluding that Walsko had not shown that Smith's original disclosure was not operable to the extent that the interference should have been dissolved.

Appellant points out that the Examiner of Inter-

ferences stated in substance that this interference should not have been declared and that the Board had indicated some doubt as to the patentability of the count. As we view it, upon this record, these are matters with which we are not concerned. The right of Smith to be granted, in his pending application or in any other application, a claim corresponding to the count in controversy, is a matter for the ex parte consideration of the Patent Office. If the subject matter of the count in issue is unpatentable or if for any other reason, not involved in issues decided here, Smith is not entitled to such a claim, presumably the Patent Office will take such steps as the law requires.

The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922.]

1,403,475, H. D. Arnold, Vacuum tube circuit; 1,403,932, R. H. Wilson, Electron discharge device; 1,507,016, L. de Forest, Radio signaling system; 1,507,017, same, Wireless telegraph and telephone system; 1,618,017, F. Lowenstein, Wireless telegraph apparatus; 1,936,162, R. A. Heising, Transmission system; Re. 18,579, Ballantine & Hull, Demodulator and method of demodulation, D. C., N. D. Ill., E. Div., Doc. 16115, *R. C. A. et al.* v. *Music Master, Inc., et al.* Decree pro confesso finding patents valid and infringed, injunction Nov. 14, 1938.

1,403,932. (See 1,403,475.)

1,446,754, H. Kohl, Process of producing multicolor prints; 2,053,115, L. B. Snyder, Process for reproducing colored copy on printing plates; 2,071,136, F. J. Meinzinger, Process for reproducing color and apparatus used therewith, filed May 11, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 374-Y, *Meinograph Process, Inc.*, v. *W. E. Disney et al.*

1,463,473, F. J. Lapointe, Broaching tool, C. C. A., 6th Cir., Doc. 7742, *Metal Cutting Tool Service, Inc.*, v. *The National Tool Co.* Patent held valid and infringed May 4, 1939.

1,480,014, F. L. Scott, Self cleaning roller drill; 2,011,084, same, Mounting for drill cutters; 1,647,753, Scott & Wellensiek, Drill cutter; 1,856,627, H. W. Fletcher, Cutter for earth boring drill; 2,030,442, Garfield & Scott, Roller bearing bit, appeal filed May 8, 1939, C. C. A., 10th Cir., Doc. 1892, *Williams Iron Works Co.* v. *Hughes Tool Co.*

1,482,110, W. F. Bolesky, Method and apparatus for cutting polygonal dies, filed May 8, 1939, D. C., E. D. Mich., S. Div., Doc. 1125, *W. F. Bolesky et al.* v. *Illinois Tool Works et al.*

1,485,338, P. M. Skrmetti, Floating trawling fish seine, D. C., S. D. N. Y., Doc. E 506, *P. M. Skrmetti* v. *A. Anderson et al.* No infringement held May 8, 1939.

1,507,016. (See 1,403,475.) 1,507,017. (See 1,403,475.)

1,536,910, O. G. Norton, Accelerating device; 1,840,471, Shepard & Culp, Accelerating means for automotive carburetors, D. C., E. D. Mich., S. Div., Doc. 422, *G. M. Holley et al.* v. *Chandler-Evans Corp. et al.* Dismissed May 12, 1939.

1,537,944, R. Hufford, Governor for internal combustion motors; 1,584,929, Handy & Bull, Governor; 2,048,423, A. A. Bull, Stabilizer for suction governors, C. C. A., 2d Cir., Doc. —, *Handy Governor Corp.* v. *General Carburetor Sales Co., Inc.* Decree modified (notice May 8, 1939).

1,550,824, H. Kuester, Wire working machine; 1,679,204, Coney & Garllus, same; 1,695,603, F. Magidson, Machine for manufacturing wire garment hangers; 2,035,658, A. J. Lewis, same, D. C., S. D. N. Y., Doc. E 85/272, *Star-Service Hanger Co.* v. *West Side Bag & Paper Co., Inc.* Dismissed without prejudice (notice May 13, 1939).

1,582,219, Hopkinson & Dewey, Seal for cans and other containers; 1,765,134, Dewey & Crocker, Sealing composition, filed May 5, 1939, D. C., E. D. N. Y., Doc. C-368, *Dewey & Almy Chemical Co. et al.* v. *Mimex Co., Inc., et al.*

1,584,929. (See 1,537,944.) 1,618,017. (See 1,403,475.)

1,647,753. (See 1,480,014.)

1,659,109, J. D. Lawrence, Portable conveyer and pourer, D. C., S. D. Calif. (Los Angeles), Doc. E 1413-M, *J. D. Lawrence* v. *L. H. Garlinghouse et al.* Dismissed with prejudice Apr. 28, 1939.

1,679,204. (See 1,550,824.) 1,695,603. (See 1,550,824.)

1,718,929, Smith & Julien, Weather strip, C. C. A., 6th Cir., Doc. 7778, *Chamberlain Metal Weather Strip Co.* v. *E. D. Barringer (Barland Weather Strip Material Co.)*. Claims 9 and 14 held valid and infringed May 10, 1939.

1,745,162, 1,795,023, J. Gordon, Ironing machine, filed May 11, 1939, D. C., N. D. N. Y. (Utica), Doc. 193, *J. Gordon* v. *Easy Washing Machine Corp.*

1,765,134. (See 1,582,219.) 1,795,023. (See 1,745,162.)

1,840,471. (See 1,536,910.)

1,840,573, H. Feldmeier, Heat exchange device, D. C., N. D. Ill., E. Div., Doc. 16224, *Cherry-Burrell Corp.* v. *Mojonnier Bros. Co.* Dismissed without prejudice Apr. 13, 1939.

1,850,033, W. H. Ritter, Sanitary napkin, filed May 5, 1939, D. C., S. D. N. Y., Doc. 3/435, *The Sterilek Co., Inc.*, v. *Johnson & Johnson.*

1,856,627. (See 1,480,014.)

1,862,416, 1,862,417, E. O. Nebel, Knitting; 1,921,908, D. M. Carmer, Knitted hosiery, D. C., E. D. Pa., Doc. 174, *J. F. Meder* v. *Temple Full Fashioned Hosiery Mills, Inc.* Consent decree dismissing bill May 9, 1939.

1,862,417. (See 1,862,416.)

1,882,292, P. J. Moran, Corselette, suit for declaratory judgment filed May 3, 1939, D. C., S. D. N. Y., Doc. 3/419, *Fashion Foundations, Inc.*, v. *I. Rosner et al.*

1,895,354. (See Re. 17,624.)

1,895,364. (See Re. 17,624.)

1,906,373. (See Re. 19,070 (*a*).)

1,916,532, Roberts & Huntington, Conveyor mechanism, filed May 12, 1939, D. C., S. D. Calif., C. Div., Doc. 377-C, *Food Machinery Corp.* v. *Brogdex Co.*

1,921,908. (See 1,862,416.)

1,925,893. (See Re. 17,610.)

1,934,492. (See Re. 19,070 (*a*) and (*b*).)

1,936,162. (See 1,403,475.)

1,943,809, P. Boschof, Take-up device for stranded cables, D. C., S. D. N. Y., Doc. E 83/383, *E. I. S. Mfg. Co., Inc.*, v. *Supco Products Corp. et al.* Interlocutory decree for plaintiff Nov. 28, 1938. Final decree (notice May 10, 1939).

1,958,570, H. D. Flegel, Fruit juice extractor, D. C., N. D. Ill., E. Div., Doc. 16128, *Scovill Mfg. Co.* v. *S. Bloomfield.* Consent decree holding claims 1, 2, 3, 8, and 9 valid and infringed, injunction Mar. 30, 1939.

1,964,009, C. H. Vogt, Process of manufacture of sausage; 1,964,011, same, Method of making and marketing sausage products, D. C. Del., Doc. E 1246, *Modern Food Process Co., Inc.*, v. *Wilmington Provision Co.* Dismissed Apr. 27, 1939.

1,964,011. (See 1,964,009.)

1,969,307, C. A. Kaufman, Hosiery and the manufacture thereof, D. C., E. D. Pa., Doc. 8979, *Julius Kayser & Co. et al.* v. *Quaker Hosiery Co.* Stipulation dismissing action May 11, 1939.

1,998,878, T. E. Lefort, Process for the production of ethylene oxide, filed Apr. 21, 1939, D. C. Md., Doc. 183, *Carbide & Carbon Chemicals Corp.* v. *U. S. Industrial Alcohol Co.*

2,000,906, C. S. Turner, Method of and apparatus for superheating; 2,000,907, same, Superheater assembly; 2,001,556, same, Fluid cooled superheater construction; 2,046,349, same, Superheating water tube boiler; 2,104,937, same, Boiler superheater; 2,119,451, same, Superheating apparatus, D. C., E. D. Mich., S. Div., Doc. 1009, *C. S. Turner* v. *C. McIntosh et al.* Dismissed May 8, 1939.

2,000,907. (See 2,000,906.) 2,001,556. (See 2,000,906.)

2,011,084. (See 1,480,014.) 2,030,442. (See 1,480,014.)

2,035,658. (See 1,550,824.) 2,046,349. (See 2,000,906.)

2,048,423. (See 1,537,944.) 2,053,115. (See 1,446,754.)

2,071,136. (See 1,446,754.)

2,084,957, R. O. Hulbert, Creeper, filed May 15, 1939, D. C., W. D. Pa., Doc. 338, *R. O. Hulbert* v. *R. Kund.*

2,090,601, R. M. Urguhart, Method and apparatus for extinguishing fires, D. C., S. D. N. Y., Doc. E 86/137, *American Fomon Co. et al.* v. *United Dyewood Corp et al.* Consent order holding patent valid, and infringed by American-La France-Foamite Corp. (notice May 6, 1939).

2,104,937. (See 2,000,906.)

2,118,468, T. G. Jungersen, Method of casting articles of intricate design and a product thereof, filed Apr. 18, 1939, D. C. Md., Doc. 173, *T. J. Jungersen* v. *A. Horvat.*

2,119,451. (See 2,000,906.)

2,134,656, M. Breth, Cloth unwinder, filed May 10, 1939, D. C., S. D. N. Y., Doc. 3/454, *M. Breth* v. *Cutting Room Appliances Corp.*

Re. 16,723, A. Dewandre, Motor Brake; Re. 16,724, same, Power brake, D. C., N. D. Ill. E. Div., Doc. 123, *Bendix Brake Co. et al.* v. *L. Meyer (Safety Brake Co.)*. Default decree, finding patents valid and infringed, injunction Apr. 25, 1939.

Re. 16,724. (See Re. 16,723.)

Re. 17,610, E. R. Whitney, Delivery truck; 1,925,893, G. M. Bacon, Milk delivery motor vehicle, filed May 5, 1939, D. C., E. D. Mich., S. Div., Doc. 1104, *Auburn Automobile Co. et al.* v. *Divco-Twin Truck Co.*

Re. 17,624, K. Schroter, Hard-metal alloy and the process of making same; 1,895,354, G. F. Taylor, Resintered hard metal composition; 1,895,364, S. P. Billings, Method for salvaging and resintering cemented carbides, filed May 3, 1939, D. C., S. D. N. Y., Doc. 3/421, *General Electric Co. et al.* v. *Master Wire Die Corp et al.*

Re. 18,579. (See 1,403,475.)

Re. 19,070 (*a*), H. Chretien, Autocollimating reflector and application to optical signaling and night advertising; 1,934,492, 1,906,373, A. Garbarini, Autocollimating reflector, D. C., S. D. N. Y., Doc. E 87/253, *Western Cataphote Corp.* v. *R. E. Dietz Co. et al.* Consent decree for plaintiff (notice May 11, 1939).

Re. 19,070 (*b*), H. Chretien, Autocollimating reflector and application to optical signaling and night advertising; 1,934,492, A. Garbarini, Autocollimating reflector, filed May 12, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 376-M, *Western Cataphote Corp.* v. *Pacific Signal Co., Inc.*

T. M. 313,768, Esquire Publishing Co., Monthly publication, D. C., N. D. Ill., E. Div., Doc. 16133, *Esquire-Coronet, Inc.*, v. *J. K. Levy et al.* Consent decree finding trademark valid and infringed, injunction Mar. 6, 1939.

T. M. 342,167. (See T. M. 353,222.)

T. M. 353,222, Beatrice Creamery Co., Paint; T. M. 342,167, U. S. Gypsum Co., Priming paint, (suit for declaratory judgment), D. C., N. D. Ill., E. Div., Doc. 173, *Beatrice Creamery Co.* v. *U. S. Gypsum Co.* Dismissed on motion of plaintiff May 5, 1939.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,047,452, V. F. Zahodiakin, Electrolytic condenser, decided June 29, 1939, claims 2, 3, 4, 5, 6, and 9.

Pat. 2,049,639, F. D. Chapman, Treating food products, decided May 8, 1939, claims 1, 2, 3, 4, and 17.

Pat. 2,097,696, Walter Macdonald, Self cleaning atomizer, decided June 26, 1939, claims 13, 14, 16, and 17.

Pat. 2,122,878, M. T. Carpenter, R. F. Ruthruff, and J. K. Roberts, Polymerization of gases, decided June 3, 1939, claims 1, 5, 6, 7, 8, 9, 12, 14, and 15.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS, LABELS, AND PRINTS

RENDERED DURING JUNE, 1939

S. H. KRESS AND COMPANY *v.* KAUFMANN DEPARTMENT STORES, INC., Cancellations Nos. 3231, 3239, 3240, and 3241.

In a decision rendered June 12, 1939 (163 Ms. Dec. 285, 41 U. S. P. Q. 790), *Assistant Commissioner Frazer* held that Kaufmann Department Stores, Inc., of Pittsburgh, Pa., was not entitled to register a certain trade-mark the dominant feature of which is the word "Cavalier", as a trade-mark for "men's and boys' hats and caps", "men's and boys' suits and overcoats", "men's shirts and numerous other articles of men's wearing apparel", and "boys' hats and caps", respectively, in view of the prior registration by S. H. Kress and Company, of New York, N. Y., of the term "Cavalier" as a trade-mark for hosiery, and that the said registrations issued to the Kaufmann Department Stores, Inc., should be cancelled.

The ground of the decision is that the marks are the same and the goods are of the same descriptive properties.

With respect to the goods the Assistant Commissioner said:

"That they are of the same descriptive properties is amply established by the authorities cited by the Examiner, the most nearly pertinent of which is *R. H. Macy & Co.* v. *H. W. Carter & Sons*, 56 App. D. C. 249, 12 Fed.(2d) 190, where such ruling was made with respect to hosiery and men's and boys' coats. In my opinion each of respondent's marks, viewed in its entirety, is so nearly similar to petitioner's mark as to be likely to be confused therewith when applied to goods of the character here involved."

With respect to respondent's contention that since petitioner took no testimony it has failed to prove use of its registered trade-mark, he said:

"Unquestionably it must be made to appear that petitioner was using its mark at the time the petitions were filed, but no further proof is required. Upon that showing damage will be presumed. *American Cyanamid Co.* v. *Synthetic Nitrogen Products Corp.*, 19 C. C. P. A. 1235, 58 Fed.(2d) 834. Not only does registration of a trade-mark constitute prima facie evidence of its ownership, but as heretofore noted respondent in its answers has expressly admitted petitioner's ownership of the mark in question. And ownership of a mark implies use. *Ely & Walker Dry Goods Co.* v. *Sears Roebuck & Co.*, 24 C. C. P. A. 1244, 90 Fed.(2d) 257. There being no proof to the contrary it must thus be assumed that petitioner was using its mark when the petitions were filed, and that it is injured by the registration of each of respondent's marks."

With respect to the argument that as to one of the registrations the question is res judicata in view of a decision in an interference, he said:

"Because the question was not presented in the pleadings it is not in issue and will not be considered."

With respect to the argument that petitioner's mark is merely a geographical name or term and thus forbidden registration, he said:

"Upon this point I express no opinion, because the validity of petitioner's registration is not open to inquiry in this proceeding. *American Cyanamid Co.* v. *Synthetic Nitrogen Products Corp.*, supra."

EX PARTE SECURITY ENGINEERING CO., INC., Serial No. 401,032.

In a decision rendered June 12, 1939 (163 Ms. Dec. 284, 41 U. S. P. Q. 792), *Assistant Commissioner Frazer* held that Security Engineering Co., Inc., of Whittier, Calif., is not entitled to register, under the act of 1905, as a trade-mark for well reamers, an alleged mark consisting of painting certain parts of the article in contrasting colors.

In his decision, after quoting the description of the mark as contained in the application for registration, the Assistant Commissioner said:

"In other words the reamer shaft is painted blue and the reaming element is painted aluminum. This arrangement, in the Examiner's opinion, does not result in a trade-mark, because the use of color is in no sense arbitrary, but is limited merely by the configuration of the goods."

Then after noting that applicant in its argument refers to the mark as "an aluminum band surrounding a blue reamer", and calling attention to various paint marks that have been registered, he said:

"The propriety of such registrations is not here in question, but it may be observed that all of them are distinguishable from the instant application because applicant's mark may not properly be described as comprising a band. All applicant has done is to color one element of its goods blue and another aluminum, and I agree with the Examiner that such use of color is without trade-mark significance."

WINTER AND COMPANY, INC., *v.* GULBRANSEN COMPANY, Opposition No. 16,908.

In a decision rendered June 13, 1939 (163 Ms. Dec. 287, 41 U. S. P. Q. 789), *Assistant Commissioner Frazer* held that Gulbransen Company, of Chicago, Ill., is not entitled to register the notation "The Minuette" as a trade-mark for pianos in view of the prior use by Winter and Company, Inc., of New York, N. Y., of the mark "Musette" for the same goods.

The ground of the decision is that the goods being the same the two marks are confusingly similar.

In his decision the Assistant Commissioner said:

"The two words 'Minuette' and 'Musette' differ somewhat in sound, but less so in appearance, and in relation to music their meanings are substantially the same. Considering the identity of the goods to which the marks are applied I am constrained to agree with the Examiner that the likelihood of confusion is at least sufficient to give rise to doubt, and as has frequently been said in proceedings of this character doubts must be resolved in favor of the first user."

Then, after noting that in the Examiner's decision and in the briefs there had been considerable discussion of applicant's asserted use of the word "Minuet" in connection with pianos before opposer's use of its marks, he said:

"Apparently the word was used in advertising and possibly to some extent as a trade-mark, but I think such facts are immaterial to the issue here presented. Applicant is not seeking to register 'Minuet,' and its use of that word either in advertising or as a trade-mark would not support registration of its present mark 'The Minuette.' As between 'Minuet' and 'Musette' the rights of the parties are not here in issue."

E. I. DU PONT DE NEMOURS & COMPANY *v.* SAMUEL ROSENBERG, Opposition No. 17,395.

In a decision rendered June 15, 1939 (163 Ms. Dec. 288, 41 U. S. P. Q. 792), *Assistant Commissioner Frazer* held that Samuel Rosenberg, of New York, N. Y., is entitled to register, as a trade-mark for anti-freezing solution for radiators, the notation "testone", notwithstanding the prior adoption, use, and registration by E. I. du Pont de Nemours & Company, of Wilmington, Del., of the term "Zerone" and the same word in association with the representation of a thermometer, as trade-marks for the same goods.

In his decision, after stating that the opposer did not seriously contend that there was any likelihood of confusion between the term "Zerone" and the term "testone", the Assistant Commissioner said:

"As used, however, opposer's mark includes the representation of a thermometer extending vertically above the letter 'O'. In applicant's mark the two 't's' are said to be formed to represent thermometers that extend vertically above the word, and it is chiefly their appearance to which opposer objects. In other words opposer insists that the vertical thermometer of its mark and the vertical thermometers of applicant's mark render the two marks in their entireties confusingly similar."

He then further said:

"While the lettering of the mark is peculiar, it would not have occurred to me that a representation of thermometers was intended, nor do I think the idea would readily suggest itself to the average purchaser."

Then with respect to the showing made in opposer's brief of what is asserted to be the applicant's mark as actually used, he said:

"But this is not the mark sought to be registered, nor the mark shown in the specimens filed with the application; and as stated by the Court of Customs and Patent Appeals in *Lucien Lelong, Inc.*, v. *Elgin American Manufacturing Co.*, 23 C. C. P. A. 1139, 83 Fed.(2d) 690, trade-marks 'must be taken as they are registered, with the presumption that the parties will use the marks as registered.'"

EX PARTE ANDREW WILSON, INC., Serial No. 409,543.

In a decision rendered June 16, 1939 (163 Ms. Dec. 290, 42 U. S. P. Q. 39), *Assistant Commissioner Frazer* held that Andrew Wilson, Inc., of Springfield, N. J., is not entitled to register, under the act of 1905, the notation "Insect-O-Soap", as a trade-mark for saponified liquid soap for use with insecticides as a carrier or spreader.

The ground of the decision is that the mark is descriptive of the goods.

After referring to statements in the applicant's brief, the Assistant Commissioner said:

"Admitting the mark to be highly suggestive, applicant contends that it is not descriptive of the goods with which it is used, nor of the character or quality of such goods. It is apparent, however, that applicant's product is a soap designed for use in the extermination of insects, and it seems to me that such a product is quite aptly described by the expression 'insect soap.' The separation of these words by hyphens and the letter 'O' obviously adds nothing to registrability."

Then, with reference to a possible registrability of the term under the act of 1920, he said:

"It may be that upon a proper showing applicant's mark would be held registrable under the act of March 19, 1920, but I am constrained to agree with the Examiner that registration under the act of 1905 is not permissible."

EX PARTE THE WILLIAMSON HEATER COMPANY, Serial No. 383,045.

In a decision rendered June 16, 1939 (163 Ms. Dec. 291, 42 U. S. P. Q. 38), *Assistant Commissioner Frazer* held The Williamson Heater Company, of Cincinnati, Ohio, is entitled to register, under the act of 1905, the term "Flo-Warm" as a trade-mark for air-conditioning units.

The ground of the decision is that while the mark may be highly suggestive, it is not descriptive of the goods within the meaning of the trade-mark act.

In his decision, after noting the Examiner's statement that the mark would mean that applicant's apparatus produces a flow of warm air, and citing a number of prior decisions in support of that holding, the Assistant Commissioner said:

"In each of those cases, however, the mark was found to be intentionally descriptive, having been so used in advertising certain peculiar characteristics of the particular refrigerator to which it was applied. That situation is not present in the instant case; and I am inclined to agree with applicant that the mark sought to be registered, while highly suggestive, is not so objectionably descriptive of its goods as to warrant rejection in the absence of opposition. 'Flo-Warm' does not appear to be an expression that would normally be used to describe air conditioning units, and that an understanding of its suggestive meaning in relation to applicant's goods requires conscious exercise of the perceptive faculties is evidenced by the Examiner's language above quoted."

HER MAJESTY UNDERWEAR CO. *v.* ROBERTS, Opposition No. 16,747.

In a decision rendered June 19, 1939 (163 Ms. Dec. 292, 42 U. S. P. Q. —), *First Assistant Commissioner Macklin* held that Roberts, of Columbus, Ohio, is not entitled to register the term "Her Majesty", as a trade-mark for women's and misses' fur coats, fur neck pieces, cloth coats, cloth suits, dresses, blouses, in view of the prior ownership by Her Majesty Underwear Co., of Philadelphia, Pa., of two registrations of the term "Her Majesty", one for woven silk underwear, and the other for women's knitted, woven, and textile underwear of all kinds and bloomers, brassières, nightgowns, and pajamas. He also held that the registration was not barred on the ground that the term "Her Majesty" is the name of the opposer.

In his decision, after referring to the two registrations above noted and discussing the testimony as to the ownership of these registrations by opposer, the First Assistant Commissioner said:

"In any event, it seems clear to me that opposer, having shown the ownership of the registered marks for 'Her Majesty', and having stated that it is using them, has made out a prima facie case which has not been overcome, and it is of no concern and has little bearing upon the case before me whether opposer uses other marks, and I do not find any reason to hold that opposer has abandoned the mark 'Her Majesty' for use on its products."

Then with respect to the likelihood of confusion in trade, he said:

"As to the confusion in trade clause, I think that even though the goods are substantially different as to some articles and very likely of widely different sales price, particularly as between fur coats of the applicant and the underwear garments of the opposer, confusion in trade within the meaning of the statute may be very likely and may properly be presumed from the showing before me.

"The applicant bases its arguments primarily on the difference between the fur coats of applicant and the slips of the opposer; however, applicant's description of the goods in its application includes 'cloth coats, cloth suits, dresses, blouses.' Likewise a natural expansion of the opposer's business would be to make some goods of the nature of those last named, and for the reasons given, and in view of the decisions cited below, I believe the goods are of the same descriptive properties within the meaning of the statute."

With respect to the pertinency of the name clause of the trade-mark act, after noting that the Examiner of Interferences had held that the words "Her Majesty" are deemed to constitute the salient feature of opposer's corporate name and to bar the registration by the applicant on the ground of likelihood of confusion, he said:

"With this holding I cannot agree. It may be that the words 'Her Majesty' constitute the salient feature of opposer's corporate name, but in my opinion it is not a clear and complete appropriation of a corporate name within the meaning of the name clause of the statute, and it has been held that the close relationship of the goods is not controlling in the consideration of alleged appropriation of a corporate name. See *Duro Pump & Mfg. Co.* v. *California Cedar Products Co.*, 11 F.(2d) 205, 56 App. D. C. 156."

ILLUMINATING ENGINEERING SOCIETY *v.* SEELIG SPECIALTIES CO., Opposition No. 16,579.

In a decision rendered June 23, 1939 (163 Ms. Dec. 295, 42 U. S. P. Q. —), *Assistant Commissioner Frazer* held that Seelig Specialties Co., of New Orleans, La., is not entitled to register the notation "I. L. S." as a trade-mark for portable electric lamps, such as so-called floor lamps, in view of the use by the Illuminating Engineering Society, of New York, N. Y., of the notation "I. E. S."

In his decision, after stating that the opposer had alleged in its notice of opposition that it was known throughout the world by the initials "I. E. S." and that for a number of years it had approved specifications for the manufacture of floor and table lamps and has entered into arrangements with upwards of 100 manufacturers by which they were permitted to apply a tag to their products bearing certificates that the same complied with the Illuminating Engineering Society's specifications, and noting that the Examiner had refused to register the mark because in his opinion the notations of the two parties were confusingly similar, but had dismissed the opposition on the ground that the opposer was not the owner, the Assistant Commissioner, with reference to the marks themselves, said:

"That the two marks, used in connection with identical merchandise, are so similar as to be likely to confuse the public and to deceive purchasers seems clear beyond argument; and I think applicant's appeal is without merit. I agree with applicant's counsel, however, that the Examiner was inconsistent in dismissing the opposition and at the same time refusing to register applicant's mark on the ground that it is confusingly similar to opposer's mark. It is my opinion that the opposition should have been sustained."

He then said:

"It is true that opposer did not own its mark, in the sense that it would have been entitled to the registration thereof, prior to the amendment of June 10, 1938, which provides for the registration of so-called collective marks; and I am in agreement with the Examiner that such amendment is of no avail to opposer in the present proceeding, because its enactment was subsequent to the filing of the opposition. But the registrability of opposer's mark is not here in issue. All that was required of opposer was to show that it would be damaged by the registration of applicant's mark. Such registration would be prima facie evidence that applicant owned the mark, and potentially at least would interfere with opposer's use of its own very valuable notation. I think that is sufficient proof of damage within the meaning of the statute."

And he further said:

"Moreover I am inclined to feel that opposer's use of its mark may properly be said to be 'analogous to a trade-mark use' (citing decisions). Certainly those cases establish the doctrine that an opposer is not required to own a trade-mark or to use it strictly as such in order to prevent registration to another of a confusingly similar mark. All that need be shown is opposer's 'priority of use analogous to a trade-mark use' and the 'likelihood of damage to him by the registration of such mark to another.' I think this showing has been made by opposer in the instant case."

GENERAL SHOE CORPORATION *v.* FORSTNER CHAIN CORPORATION, Cancellation No. 3259.

In a decision rendered June 30, 1939 (163 Ms. Dec. 298, 42 U. S. P. Q. —), *Assistant Commissioner Frazer* held that Forstner Chain Corporation, of Irvington, N. J., was entitled to register the word "Fortune" as a trade-mark for key chains, watch chains, tie holders, etc., notwithstanding the prior adoption and use by General Shoe Corporation, of Nashville, Tenn., of the same word as a trade-mark for boots, shoes and slippers of leather and fabric, and that this prior use affords no basis for cancelling the registration obtained by Forstner Chain Corporation.

In his decision, after noting that the petitioner for cancellation argues that the goods are of the same descriptive properties since they are worn upon the person for utilitarian purposes and personal adornment, and are frequently sold at the same stores and to the same purchasers, the Assistant Commissioner said:

"I have given careful consideration to petitioner's argument, but I am constrained to agree with the Examiner that the goods here involved are of different descriptive properties; and I think there is no reasonable likelihood that confusion will result from their sale under identical marks. Petitioner cites numerous cases wherein the contrary has been held with respect to various items of merchandise, but none of such cases affords authority for sustaining petitioner's contention here."

GENERAL SHOE CORPORATION *v.* ESSEX RUBBER COMPANY, Opposition No. 17,168.

In a decision rendered June 30, 1939 (163 Ms. Dec. 299, 42 U. S. P. Q. —), *Assistant Commissioner Frazer* held that Essex Rubber Company, of Trenton, N. J., is not entitled to register the word "Skyway" as a trade-mark for rubber soles, in view of the prior adoption and use by General Shoe Corporation, of Nashville, Tenn., as a trade-mark for shoes of leather, fabric or combinations thereof, of a mark consisting of the words "Sky Riders" in association with the picture of an airplane.

The ground of the decision is that the goods are of the same descriptive properties and the marks confusingly similar as applied thereto.

In his decision, after stating that it was conceded that the marks are of the same descriptive properties, and that the only point is whether the marks are confusing, the Assistant Commissioner said:

"The marks differ considerably both in appearance and in sound, but I think they are both dominated by the word 'sky', and that they both convey the same general impression to the mind. It is stipulated that 'Skyway' is a coined expression 'not listed in any dictionary', but that does not alter the fact that 'sky' and 'way' are both words in common use; and when combined, as in applicant's mark, the resulting fanciful suggestion of a way in the sky is immediate, and its association with airplanes or 'sky riders' would seem highly probable. In view of the close relationship of the goods in question, I cannot escape the conviction that the two trade-marks are too nearly alike to be concurrently used in trade without at least some likelihood of confusion."

TRADE-MARKS

OFFICIAL GAZETTE, JULY 25, 1939

[VOL. 504. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 417,953. MURRAY BAUM, Ashton, Idaho. Filed Apr. 7, 1939.



No claim is made to the word "Brand" apart from the mark.

For Seed Potatoes.

Claims use since Aug. 15, 1938.

Ser. No. 418,071. SOUTHERN COAL COMPANY, INCORPORATED, Memphis, Tenn. Filed Apr. 10, 1939.



The words "Sixth Vein", "Kentucky", and "Extra Value Coal" are disclaimed apart from the mark.

For Coal.

Claims use since Nov. 15, 1937.

Ser. No. 420,184. THE OHIO LEATHER COMPANY, Girard, Ohio. Filed June 5, 1939.

Racer

For Leather.

Claims use since August, 1938.

Ser. No. 420,478. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed June 14, 1939.

ROSKYDAL

For Artificial Resins in the Form of Solids, Solutions, or Emulsions Suitable for Various Uses in the Industrial Arts.

Claims use since June 24, 1938.

CLASS 2

Receptacles

Ser. No. 416,280. THE AMERICAN THERMOS BOTTLE COMPANY, Norwich, Conn. Filed Feb. 21, 1939.

Holtemp

For Vacuum Bottles.

Claims use since Jan. 28, 1939.

Ser. No. 417,417. THOMAS M. ROYAL & COMPANY, Philadelphia, Pa. Filed Mar. 23, 1939.

Flavotainer

For Paper Bags for Packaging of Foods.

Claims use since Feb. 15, 1939.

Ser. No. 418,037. DAVID M. ENGELSON, New York, N. Y. Filed Apr. 10, 1939.

STOR-AID

For Garment Bags, Paperboard Closets, and Chests.

Claims use since Apr. 5, 1939.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 413,912. ARTHUR RAUHAUS, doing business as Kittanning Leather Products, Kittanning, Pa. Filed Dec. 16, 1938.

LADY FOLD

The word "Fold" is disclaimed apart from the mark.
For Leather Billfolds and Pocketbooks.
Claims use since Oct. 15, 1938.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 418,623. ABBOTT LABORATORIES, North Chicago, Ill. Filed Apr. 24, 1939. Under section 5b of the act of 1905 as amended in 1920.

Abbott

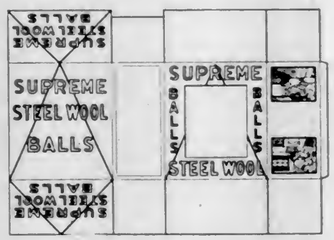
For Antiseptic Soap, Bath Soap, Liquid Soap, Soft Soap, and Soap for Pet Animals.
Claims use since May 13, 1931.

Ser. No. 418,807. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.

BRILLO

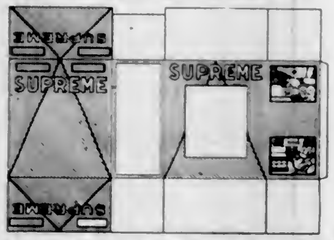
For Abrasive Pads for Polishing and Cleaning Floors.
Claims use since Aug. 10, 1937.

Ser. No. 418,813. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.



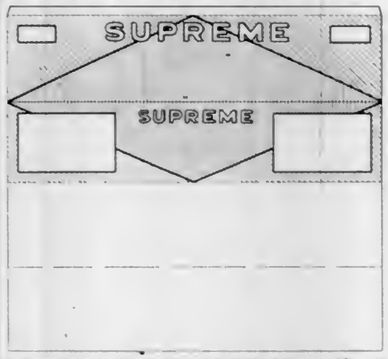
No claim is made to the representation of the carton or to the words "Steel Wool Balls" apart from the mark.
For Soaps, Cleaning, Scouring, and Polishing Wads, Pads, Rolls, Balls, and Cloths of Abradent Nature, for Removing Foreign Matter from Metal and Other Surfaces.
Claims use since Oct. 15, 1936.

Ser. No. 418,814. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.



No claim is made to the representation of the carton, per se, apart from the mark. The drawing is lined for red and green.
For Soaps, Cleaning, Scouring, and Polishing Wads, Pads, Rolls, Balls, and Cloths of Abradent Nature, for Removing Foreign Matter from Metal and Other Surfaces.
Claims use since Oct. 15, 1936.

Ser. No. 418,815. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.



The drawing is lined for red and green. No claim is made to the representation of the carton apart from the mark.
For Soaps, Cleaning, Scouring, and Polishing Wads, Pads, Rolls, and Cloths of Abradent Nature, for Removing Foreign Matter from Metal and Other Surfaces.
Claims use since Jan. 18, 1935.

Ser. No. 418,816. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.



No claim is made to the representation of the carton or to the words "Steel Wool Patented Pads" and "Steel Wool Pads" apart from the mark.
For Soaps, Cleaning, Scouring, and Polishing Wads, Pads, Rolls, and Cloths of Abradent Nature, for Removing Foreign Matter from Metal and Other Surfaces.
Claims use since Jan. 18, 1935.

Ser. No. 419,081. MASURY-YOUNG COMPANY, Charlestown, Mass. Filed May 4, 1939.

MYCOBRITE

For Cleaning Preparation for Unfinished Floors, Woodwork, and Like Surfaces.
Claims use since Nov. 10, 1938.

Ser. No. 419,082. MASURY-YOUNG COMPANY, Charlestown, Mass. Filed May 4, 1939.

MYCO DRESOAP

For Cleaning Preparation Having Incidental Polishing Properties for Floors, Woodwork, and Like Surfaces.
Claims use since Jan 15, 1938.

Ser. No. 419,511. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed May 17, 1939.

GENOCLENE

For Detergent for Cleaning Metals, Glass, Painted Surfaces and for Other Household and Industrial Cleaning Purposes.
Claims use since Apr. 5, 1939.

Ser. No. 419,683. PLOMOCITE PRODUCTS, INC., Denver, Colo. Filed May 22, 1939.

PLOMO

For Cleansing Powder Sold in Bulk for Industrial Use.
Claims use since Mar. 1, 1939.

Ser. No. 419,684. PLOMOCITE PRODUCTS, INC., Denver, Colo. Filed May 22, 1939.

PLOMOCITE

For Cleansing Powder Sold in Bulk for Industrial Use.
Claims use since Mar. 1, 1939.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 406,753. DINGMAN-LORENZ LABORATORY, Pittsburgh, Pa. Filed May 26, 1938.



For Bleaching Fluid.
Claims use since May 10, 1938.

Ser. No. 407,124. GEORGE MARTIN BROEMMEL, doing business as Broemmel Laboratories, San Francisco, Calif. Filed June 6, 1938.

CAL-C-MANDELATE

The word "Mandelate" is disclaimed except as shown.
For Preparation for Treatment of Infections of the Urinary Tract.
Claims use since Apr. 1, 1937.

Ser. No. 413,083. SMITH BROTHERS DRUG COMPANY, Baltimore, Md. Filed Nov. 23, 1938.

Digesto-Pep

For Preparation for the Relief of Indigestion, Ulcers of the Stomach, and Other Ailments of the Stomach and Intestines.
Claims use since Aug. 20, 1938.

Ser. No 414,023. BYK-GULDENWERKE CHEMISCHE FABRIK A.-G., Berlin, Germany. Filed Dec. 20, 1938.

Tonhormon

For Medicines for Circulatory Dearrangements Such as After Infectious Diseases and Subnormal Blood Pressure, Especially in Convalescence, Allergic Conditions Such as Asthma, Hay Fever, Rosefever, and the Like.
Claims use since Feb. 7, 1938.

Ser. No. 414,824. DR. H. M. GALE MEDICINE COMPANY, Bay City, Mich. Filed Jan. 14, 1939. Under 10-year proviso.

Dr. Gale's

The mark is a facsimile of the signature of Hugh M. Gale.

For Whooping Cough Medicine.

Claims use since January, 1884.

Ser. No. 416,680. CALCIUM CHEMICAL CORP., Adams, Mass., and Easton, Pa. Filed Mar. 4, 1939.

CALCIUM ALBACAR CARBONATE

Applicant disclaims the words "Calcium" and "Carbonate" apart from the mark.

For Carbonate Pigment for Paints and Plastics, as a Reinforcing Filler in Rubber Stocks, as an Abrasive in Tooth Pastes and Tooth Powders, as an Opacifying Agent in Paper, Asbestos Shingles, Linoleum, Shade Cloth, Etc., as a Free Flowing Agent in Table Salt, and as a Bodying Agent in Lubricating and Drawing Oils.

Claims use since Sept. 2, 1938.

Ser. No. 416,903. RAY J. KOEHLER, Denver, Colo. Filed Mar. 10, 1939.

PAPILLAE ARE DORMANT NOT DEAD

KOEHLER SYSTEM OF GROWING HUMAN HAIR



Ray J. Koehler

PAPILLA MASSAGE

The portrait and signature are those of the applicant. All notations except the facsimile signature and portrait are disclaimed apart from the mark.

For Liquid Preparation Used as a Cosmetic Massage in the Treatment of the Scalp for Stimulating Growth of Hair.

Claims use since Mar. 6, 1939.

Ser. No. 417,145. STANDARD BEAUTY SUPPLY CO., New York, N. Y. Filed Mar. 16, 1939.

LUSTROL

For Shampoos, Hair Tonics, and Hair and Scalp Preparations.

Claims use since Nov. 10, 1938.

Ser. No. 417,289. ANNE MARIE MARTIN, Los Angeles, Calif. Filed Mar. 20, 1939.

V.M.

For Hair Grower.

Claims use since Feb. 20, 1939.

Ser. No. 417,480. BLOOMINGDALE BROS., INC., New York, N. Y. Filed Mar. 25, 1939.

Garden Herb Shop

For Creams for the Hands, Face, and Body, Lotions for the Hands, Face, and Body, Face Powders, Dusting Powders, Bath Crystals, Toilet Waters, Perfumes, Sachets, and Lipsticks.

Claims use since Mar. 16, 1939.

Ser. No. 417,505. SALVATORE RIZZUTO, New York, N. Y. Filed Mar. 25, 1939.

THE MARVEL DRY FIRE EXTINGUISHER

Applicant disclaims the words "Dry Fire Extinguisher".

For Preparation Consisting of a Chemical Powder for Extinguishing Fire.

Claims use since Feb. 1, 1937.

Ser. No. 417,723. WEBB LABORATORIES, INC., Schenectady, N. Y. Filed Mar. 31, 1939.

WEBPHOS

For Medicinal Preparation Containing Vitamin B Extract and Phosphates.

Claims use since Jan. 1, 1939.

Ser. No. 417,725. WEBB LABORATORIES, INC., Schenectady, N. Y. Filed Mar. 31, 1939.

WEBMEX

For Biologically Standardized Vitamin Concentrate Capsules Containing Vitamins A, B, G, and D.

Claims use since Dec. 1, 1938.

Ser. No. 417,726. WEBB LABORATORIES, INC., Schenectady, N. Y. Filed Mar. 31, 1939.

WEBATIN

For Vitamin Concentrate Capsules Containing Vitamins B_1 and G (B_2) Designated as Vitamin B-Complex.

Claims use since Jan. 1, 1939.

Ser. No. 418,150. CHAS. V. HORVATH CO., INC., South Bend, Ind. Filed Apr. 12, 1939.

SPARKLE SHEEN

No claim is made to the term "Sheen" apart from the mark.

For Hair Rinse.

Claims use since July 1, 1934.

Ser. No. 418,256. MERZ & CO., CHEMICAL WORKS, INC., Newark, N. J. Filed Apr. 14, 1939.

IATROS

For Chemical Preparations—Namely, Medicinal Dyes, Chemical Reagents for Laboratory Purposes, Medicinal and Pharmaceutical Preparations—Namely, Preparations for the Treatment or Prevention of Venereal Diseases, Contraceptives, Antiseptics, Local Anesthetics, Disinfectants, Medicated Jellies, Ointments and Other Topical Medications to Be Used in the Treatment of the Skin and Mucous Membranes, Camomile Extract, Garlic Extract, Gelatinous Capsules Containing Garlic, Apiol, Wheat Germ Oil, Cod Liver Oil, Worm Remedies, Laxative Candy and Cough Gum Drops, Medicated Garlic Oil, Local Anesthetics Used in Dentistry; Cosmetics—Namely, Ethereal Oils, Bath Tablets, Facial Creams, Suntan Oil.

Claims use since Mar. 14, 1939.

Ser. No. 418,545. RICHARD L. SPENCER, Meadville, Pa. Filed Apr. 21, 1939.

Quaker

Drops

Applicant disclaims the word "Drops" apart from the mark.

For Eye Drops.

Claims use since Apr. 15, 1939.

Ser. No. 418,667. WYETH CHEMICAL COMPANY, Jersey City, N. J. Filed Apr. 24, 1939.



The drawing is lined for red. No claim is made to the words "Cold Tablets" apart from the mark or to the representation of a container, per se. The picture and signature are those of W. H. Hill, founder of the business.

For Medicinal Preparation for Relieving Headaches, Neuralgia, and Muscular Aches and Pains Caused By or Associated with Colds.

Claims use since Mar. 22, 1939.

Ser. No. 418,688. FRANK G. MACALOON, doing business as New Chemical Products Co., Washington, D. C. Filed Apr. 25, 1939.

MOR-DI

For Insecticide.

Claims use since Apr. 19, 1939.

Ser. No. 418,943. PRINCESS PAT, LTD., Chicago, Ill. Filed May 1, 1939.

Lifties

For Wrinkle Eradicator.

Claims use since Nov. 3, 1933.

Ser. No. 419,224. MARION G. HALE, Mineral Wells, Tex. Filed May 9, 1939.

HALE'S



The portrait is that of the applicant.

For Salve and Inhalant in the Treatment of Headaches, Sinus Trouble, Inflammation of the Throat, Colds, Chest Soreness, Burns, Sunburn, Cuts, Bruises, and Minor Skin Irritations.

Claims use since Feb. 1, 1939.

Ser. No. 419,289. LOIS B. BECKWITH, Manchester Center, Vt. Filed May 11, 1939.

DELBETAR

For Insecticides.

Claims use since Apr. 3, 1939.

Ser. No. 419,364. AMERICAN DRUG & CHEMICAL CO., Minneapolis, Minn. Filed May 13, 1939.

ARDANOL

For Medicinal Wheat Germ Oil.
Claims use since Feb. 23, 1939.

Ser. No. 419,368. RALPH N. CHIPMAN, doing business as Berako Company, Bound Brook, N. J. Filed May 13, 1939.

Berako

For Insecticides and Fungicides.
Claims use since Feb. 23, 1939.

Ser. No. 419,427. KENTUCKY COLOR AND CHEMICAL COMPANY, Louisville, Ky. Filed May 15, 1939.
For Insecticides.

Reth

Claims use since Mar. 22, 1939.

Ser. No. 419,441. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 15, 1939.

NAPHTHOCAINE

For Compound for Use as a Local Anesthetic.
Claims use since Mar. 31, 1939.

Ser. No. 419,442. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 15, 1939.

EXOMIN

For Compound for Use as a Local Anesthetic.
Claims use since Mar. 31, 1939.

Ser. No. 419,443. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 15, 1939.

HESTADIN

For Ointment for the Treatment of Burns.
Claims use since Mar. 31, 1939.

Ser. No. 419,457. THE STARKIST COMPANY, Gloster, Miss. Filed May 15, 1939.

STARKIST

For Toothpaste and Dentifrice.
Claims use since Aug. 10, 1936.

Ser. No. 419,476. DAVID M. ENGELSON, New York, N. Y. Filed May 16, 1939.

"STOR-O-CIDE"

For Retainer Pads Impregnated with an Insect Repellent.
Claims use since Apr. 3, 1939.

Ser. No. 419,491. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa. Filed May 16, 1939.

BĒPRON

For Medicinal Preparation for Use in the Prevention and Treatment of Diseases due to Dietary Deficiencies.
Claims use since Apr. 13, 1939.

Ser. No. 419,837. ATLANTIC RESEARCH FOUNDATION, Atlantic City, N. J. Filed May 26, 1939.

A.R.F.-501

For Therapeutic Compounds for Treatment of Neuritis, Myositis, Arthritis, Etc.
Claims use since May 23, 1939.

Ser. No. 420,061. CHARITY JOHNSON, Indianola, Miss. Filed June 1, 1939.

CHARITY'S

For Medicine for Treating the Blood.
Claims use since Jan. 1, 1932.

Ser. No. 420,143. NELLIE G. ROWLEY, doing business as Mountain View Co., Salt Lake City, Utah. Filed June 3, 1939.

MOUNTO

For Preparation for the Treatment of Internal Disorders—Namely, Women's Diseases, Tonic and Blood Purifier, and Poison Exterminator, Liver and Kidney Ailments.
Claims use since May 31, 1939.

Ser. No. 420,145. SCOTT & BOWNE VITAMIN CORPORATION, Bloomfield, N. J. Filed June 3, 1939.

DEE-LAC

For Emulsification of Vitamin D Concentrate.
Claims use since Feb. 24, 1939.

Ser. No. 420,177. CLYDE L. HALL, doing business as Hall's Drug Store, Thayer, Mo. Filed June 5, 1939.

Numacol

For Medicinal Compound for Internal Use in the Treatment of Heartburn, Dyspepsia, Sour Stomach, Headache, Nervous Indigestion, Excess Acid or Gas, Bloating, Poor Appetite, Sleeplessness, Peptic Ulcers, and Constipation.
Claims use since May 5, 1939.

Ser. No. 420,210. CLARENCE E. BEATTY, Chicago, Ill. Filed June 6, 1939.

LADY DUPLEX

For Combination Lipstick and Pencil.
Claims use since Apr. 15, 1939.

Ser. No. 420,262. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 7, 1939.

SYKRATES

For Alkaline Effervescent Preparation Indicated in the Treatment of Colds and Other Conditions Wherein an Alkaline Preparation is Indicated.
Claims use since May 29, 1939.

Ser. No. 420,263. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 7, 1939.

DIACURB

For Product Indicated in the Treatment of Diarrhea and Dysentery.
Claims use since May 29, 1939.

Ser. No. 420,264. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 7, 1939.

RHUSYL

For Preparation Indicated in the Treatment of Rheumatic Fever.
Claims use since May 29, 1939.

Ser. No. 420,265. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 7, 1939.

SARILLA

For Product Indicated as an Alterative and Stomachic.
Claims use since May 29, 1939.

Ser. No. 420,266. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 7, 1939.

JAMAKA

For Preparation Indicated in the Treatment of Dysentery and Diarrhea.
Claims use since May 29, 1939.

Ser. No. 420,267. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 7, 1939.

ALKONATES

For Alkaline Effervescent Salt Preparation Indicated in the Treatment of Common Colds and Other Conditions Wherein an Alkaline Preparation is Indicated.
Claims use since May 29, 1939.

Ser. No. 420,268. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 7, 1939.

GONOBIA

For Product Indicated in the Treatment of Genito Urinary Conditions.
Claims use since May 29, 1939.

Ser. No. 420,287. PARFUMS CHEVALIER GARDE, INC., New York, N. Y. Filed June 8, 1939.

CHEVALIER GARDE

For Perfume, Toilet Water, Eau de Cologne, Face Powder, Bath Powder, Bath Salts, Sachets, Lipsticks, and Compacts.
Claims use since Nov. 15, 1937.

Ser. No. 420,290. ROCHE-ORGANON, INC., Nutley, N. J. Filed June 8, 1939.

DOCA

For Hormone Preparation Recommended for the Treatment of Addison's Disease and Hormone Deficiencies.
Claims use since Jan. 10, 1939.

Ser. No. 420,321. DOROTHY GRAY SALONS, Bloomfield, N. J. Filed June 9, 1939.

ROYALTY RED

The word "Red" is disclaimed apart from the mark.
For Lipsticks, Compact Rouge, and Cream Rouge.
Claims use since May 26, 1937, on lipsticks; since Oct. 10, 1938, on compact rouge; since Oct. 22, 1938, on cream rouge.

Ser. No. 420,455. THE HART PRODUCTS CORPORATION, New York, N. Y. Filed June 13, 1939.

HYTERGEN

For Wetting and Moistening Preparations, Finishing Preparations, Smoothing Preparations, Tanning Preparations, Thread and Fibre Penetrating Preparations, and Thread and Fibre Protecting Preparations.
Claims use since June 9, 1938.

Ser. No. 420,586. KELCO COMPANY, San Diego, Calif. Filed June 16, 1939.

KELGIN

For Alginate Product for Use as a Colloidal Agent in Cosmetics and Pharmaceuticals.
Claims use since Aug. 22, 1938.

Ser. No. 420,604. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 16, 1939.

ZAPRILLA

For General Tonic.
Claims use since June 12, 1939.

Ser. No. 420,639. THE R. H. LAIRD MANUFACTURING COMPANY, INC., New York, N. Y. Filed June 17, 1939.

Tanalogne

For Combination Sun-Tan and Eau de Cologne Preparation.
Claims use since June 12, 1939.

CLASS 7

Cordage

Ser. No. 417,833. CALLAWAY MILLS, La Grange, Ga. Filed Apr. 4, 1939.

CAL-RAY-CORD

The term "Cord" is disclaimed apart from the mark.
For Tire Cord:
Claims use since Mar. 2, 1939.

CLASS 11

Inks and Inking Materials

Ser. No. 419,154. THE PEERLESS CARBON BLACK COMPANY, Pittsburgh, Pa. Filed May 6, 1939.

PEERLESS
Mark II

The drawing is lined for red. No claim is made to the words "Peerless Mark II" apart from the mark.
For Carbon Black Used in the Manufacture of Printing Ink, Lithography Ink, Stenciling Ink, Carbon Paper, and Typewriter Ribbons.
Claims use since Jan. 25, 1938.

Ser. No. 419,308. OLD TOWN RIBBON & CARBON CO., INC., New York, N. Y. Filed May 11, 1939.

Double-Duty

For Carbon Paper.
Claims use since Apr. 15, 1938.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 415,345. ARTHUR L. PARKER, Cleveland, Ohio. Filed Jan. 28, 1939.

For Metal Tube Fittings, Metal Pipe Fittings, Flexible Metal Hose Fittings, Valves and Cocks, Strainers, Metal Tubing, Flexible Metal Hose, Rubber Hose Fittings, Metal Tube Clamps, Pressure Hammer Snubbers, Pipe Manifolds, Flanges, Tank Connection Fittings.
Claims use since Jan. 1, 1931.

Ser. No. 418,240. ELASTIC KNITTED WIRE CO., INC., Providence, R. I. Filed Apr. 14, 1939.

FLEXTURE

For Tubes Made of Woven Wire.
Claims use since Mar. 1, 1938.

Ser. No. 419,277. STEEL MATERIALS CORPORATION, Detroit, Mich. Filed May 10, 1939.

Chromite

For Base Metal Cooking Hollowware.
Claims use since Apr. 10, 1939.

Ser. No. 419,961. THE EVEREDY COMPANY, Frederick, Md. Filed May 29, 1939.

COUNTESS

For Base Metal Cooking Hollowware.
Claims use since May 15, 1939.

Ser. No. 419,962. THE EVEREDY COMPANY, Frederick, Md. Filed May 29, 1939.

DUTCHESS

For Base Metal Cooking Hollowware.
Claims use since May 15, 1939.

Ser. No. 419,963. THE EVEREDY COMPANY, Frederick, Md. Filed May 29, 1939.

PRINCESS

For Base Metal Cooking Hollowware.
Claims use since May 15, 1939.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 419,301. GENERAL STEEL WAREHOUSE CO., INC., New York, N. Y. Filed May 11, 1939.

GENSCO

For High Carbon Spring Metal, Metal Strip, and Wire.
Claims use since Jan. 2, 1938.

Ser. No. 419,692. THE TIMKEN ROLLER BEARING COMPANY, Canton, Ohio. Filed May 22, 1939.

GRAPH-TUNG

For Steel.
Claims use since Apr. 25, 1938.

Ser. No. 419,763. THE INTERNATIONAL NICKEL COMPANY, INC., New York, N. Y. Filed May 24, 1939.

For Carbon-Bearing Nickel Anodes.
Claims use since November, 1938.

CLASS 15

Oils and Greases

Ser. No. 419,690. SOUTHPORT PETROLEUM COMPANY, Kilgore, Tex. Filed May 22, 1939.

For Gasoline.
Claims use since Jan. 24, 1939.

Ser. No. 419,984. STERNS, LIMITED, London, England. Filed May 29, 1939.

COOLORICID

For Heating and Lubricating Oils.
Claims use since June, 1906.

CLASS 16

Paints and Painters' Materials

Ser. No. 389,682. THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Mar. 5, 1937.

TIME-TESTED

No claim is made to the words "Time-Tested" apart from the mark.
For Ready Mixed Paints, Paste Paints, Colors in Oil, Paint Enamels, Transparent Lacquers, Pigmented Lacquers, Varnishes, Varnish Enamels, Thinners, Primers, Driers, Stains, Kalsomine, Fillers, Polishes for Automobiles and Furniture.
Claims use since Feb. 10, 1937.

Ser. No. 419,195. NATIONAL CHEMICAL & MANUFACTURING COMPANY, Chicago, Ill. Filed May 8, 1939.

RESINALL

For Paints in Paste Form.
Claims use since Jan. 1, 1939.

CLASS 17

Tobacco Products

Ser. No. 420,376. LEIGHTON TOBACCO CO., INC., New York, N. Y. Filed June 10, 1939.

Echo

For Smoking Tobacco, Cigars, and Cigarettes.
Claims use since May 16, 1939.

Ser. No. 420,377. LEIGHTON TOBACCO CO., INC., New York, N. Y. Filed June 10, 1939.

phantom

For Smoking Tobacco, Cigars, and Cigarettes.
Claims use since May 16, 1939.

CLASS 20

Linoleum and Oiled Cloth

Ser. No. 418,201. SAMUEL D. MOORE, doing business as Sam Moore & Co., Cleveland, Ohio. Filed Apr. 13, 1939.

RUB-BUB

For Composition Flooring and Step Tread Coverings of the Linoleum Type.
Claims use since Jan. 31, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 414,131 TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill. Filed Dec. 22, 1938.

TRU-TEST

For Spark Plugs, Electric Vacuum Cleaners, Batteries, Electric Motors and Electric Fans, Electric Toasters, Sadirons, Contact Terminals, Flashlights and Ignition Coils.
Claims use since July, 1937.

Ser. No. 416,529. SPERRY GYROSCOPE COMPANY, INC., Brooklyn, N. Y. Filed Feb. 28, 1939.

KLYSTRON

For High Frequency Radio Amplifiers, Oscillators, Detectors, Phase-Shifters, and Frequency Shifters.
Claims use since Feb. 1, 1939.

Ser. No. 416,530. SPERRY GYROSCOPE COMPANY, INC., Brooklyn, N. Y. Filed Feb. 28, 1939.

RHUMBATRON

For High Frequency Electro-Magnetic Resonators and Resonant Circuits.
Claims use since Feb. 1, 1939.

Ser. No. 418,721. MARATHON BATTERY COMPANY, Wausau, Wis. Filed Apr. 26, 1939.

MARALITE

For Electric Flashlights.
Claims use since Jan. 20, 1939

Ser. No. 418,783. MCGILL MANUFACTURING COMPANY, Valparaiso, Ind. Filed Apr. 27, 1939.

Levolier

For Electric Lamp Sockets, Electric Candle Sockets, Electric Switch Porcelain Brackets, Electric Switch Clusters for Lamps, Attachment Arms for Electric Switches, Link Switches, Fixture Switches, Wall Switches, Canopy Switches, and Multi-Circuit Control Switches.
Claims use since Aug. 30, 1918.

Ser. No. 419,403. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed May 13, 1939.

SUPER EONITE

For Electrical Wire.
Claims use since Apr. 20, 1939.

Ser. No. 419,638. SPIEGEL, INC., Chicago, Ill. Filed May 20, 1939.

AIR CASTLE

For Radio Receiving Sets and Radio Tubes, and for Storage Batteries and Dry Cell Batteries.
Claims use since February, 1934.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 418,291. CLOVER GAMES, INCORPORATED, New York, N. Y. Filed Apr. 15, 1939.

CLOVER

For Post Office Game.
Claims use since Apr. 6, 1939.

Ser. No. 419,135. FAIR-O ENTERPRISES COMPANY, New York, N. Y. Filed May 6, 1939.

FAIR-O

ENTERPRISES

For Educational Game Played with Cards, Pieces, and Drawings of Pictures on Cardboard.
Claims use since Apr. 19, 1939.

Ser. No. 419,555. HORACE W. HALL, Newton Highlands, Mass. Filed May 18, 1939.

Hall-Craft

De Luxe

No claim is made to the term "De Luxe" apart from the mark.
For Tennis, Squash, and Badminton Playing Rackets.
Claims use since Oct. 15, 1938.

Ser. No. 420,336. JOHN NELSON, doing business as Louis Johnson Co., Chicago, Ill. Filed June 9, 1939.

LUJONCO

For Artificial Fish Lures.
Claims use since June 1, 1939.

Ser. No. 420,337. JOHN NELSON, doing business as Louis Johnson Co., Chicago, Ill. Filed June 9, 1939.

CAPER

For Artificial Fish Lures.
Claims use since June 1, 1939.

Ser. No. 420,491. HOWARD W. LEWIS, Waltham, Mass. Filed June 14, 1939.

DICTATOR

For Game Comprising a Board and Certain Movable Pieces.
Claims use since May 13, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 410,807. YOUNGBERG BROS., Meriden, Conn. Filed Sept. 20, 1938.

CHEESERVER

The word "Cheese" is disclaimed apart from the mark.
For Food Slicers.
Claims use since Dec. 1, 1935.

Ser. No. 411,263. THE AMERICAN FORK & HOE COMPANY, Cleveland, Ohio. Filed Oct. 4, 1938.

LAWN MASTER

The word "Lawn" is disclaimed apart from the mark.
For Hand Agricultural and Garden Implements—Namely, Rakes and Parts Thereof.
Claims use since July 1, 1930.

Ser. No. 416,901. HERCULES TOOL COMPANY, Tulsa, Okla. Filed Mar. 10, 1939.

HERCULES

For Oil Well and Oil Field Tools and Equipment—Namely, Casing Heads, Tubing Heads, Tubing Hangers, Pumping and Flowing T's, Polish Rod Stuffing Boxes, Flow Heads, Anchors, Spiders, Tubing Rotators, Oil Savers, Casing Head Adapters, Relief Valves, Engine-Control Valves, and Like Articles for Pumping and Flowing Oil Wells.
Claims use since Oct. 15, 1924.

Ser. No. 417,504. NEW ENGLAND TANK & TOWER COMPANY, Everett, Mass. Filed Mar. 25, 1939.

NE T&T C

For Agitating Drive Equipment Including the Drive Transmission Unit from the Motor to the Agitator, Connecting Shafts, Stirrer and Impeller, and Receptacle when It and the Above are Built as a Self-Contained Unit, but not Receptacles Alone.
Claims use since June 1, 1918.

Ser. No. 418,118. H. M. SHANZER CO., San Francisco, Calif. Filed Apr. 11, 1939.

BERICO

For Grain and Seed Driers, Grain and Seed Treating Machinery, and Mill Machinery Such as Vertical Mixers, Barley Bearders, Suction and Blower Type Fans, Horizontal Mixers, Bucket Elevators, Bean Polishers, Vertical Steamers.
Claims use since May 20, 1938.

Ser. No. 418,346. WALTER W. JOHNSON COMPANY, San Francisco, Calif. Filed Apr. 17, 1939.

THE PROSPECTOR

For Drill for Use in Mine Development.
Claims use since July 1, 1937.

Ser. No. 419,515. HILL & MCLAUGHLIN, INC., Minneapolis, Minn. Filed May 17, 1939.

HUSKY

For Razor Blades.
Claims use since May 8, 1939.

Ser. No. 419,631. PITNEY-BOWES POSTAGE METER COMPANY, Stamford, Conn. Filed May 20, 1939.

MAILOMAT

For Coin Operated Postage Printing Machines.
Claims use since May 17, 1939.

Ser. No. 419,633. H. P. PREIS ENGRAVING MACHINE CO., Newark, N. J. Filed May 20, 1939.

PANTO

For Engraving Machines and Markers and Parts Thereof.
Claims use since Mar. 31, 1939.

Ser. No. 419,681. THE F. E. MYERS & BRO. COMPANY, Ashland, Ohio. Filed May 22, 1939.

Ejecto

For Pumps.
Claims use since Jan. 1, 1937.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 393,351. THE WAYNE PUMP COMPANY, Fort Wayne, Ind. Filed May 27, 1937. Under section 5b of the act of 1905 as amended in 1920.

Wayne

For Combination Apparatus for Dispensing, Metering, Cost Calculating, Quantity Calculating, or Registering, Alone or in Combination, in Connection with the Sale, Supply, Dispensing, and the Like, of Liquids or Petroleum Products Such as Oil or Gasoline and the Like, and Parts Thereof—Namely, Measuring and Dispensing Meters, Registering Mechanism Indicating the Quantity or Quantity and/or Cost of Liquid Dispensed, Price Variator Mechanism, Price Synchronizing Mechanism, and All Connections Between Such Parts.

Claims use since 1891 for non-computer types of pumps classed as combination apparatus for dispensing, metering, quantity calculating or registering in connection with the sale, supply, dispensing and the like of liquids or petroleum products such as oil or gasoline and the like, and parts thereof; since 1933 for computer types of pumps classed as combination apparatus for dispensing, metering, cost calculating, quantity calculating, or registering alone or in combination in connection with the sale, supply, dispensing and the like of liquids or petroleum products such as oil or gasoline and the like, and parts thereof; since 1933 for computing heads classed as registering mechanism indicating quantity, or quantity and/or cost of the liquid dispensed; since 1933 for price variator mechanism; since 1935 for price synchronizing mechanism; since 1917 for measuring and dispensing meters; and since 1915 for clock type registers classified as registering mechanism indicating the quantity of liquid dispensed.

Ser. No. 419,286. AGFA ANSCO CORPORATION, Binghamton, N. Y. Filed May 11, 1939.

CONVIRA

For Sensitized Photographic Paper.
Claims use since Nov. 2, 1933.

Ser. No. 419,305. MAXIM INSTRUMENT COMPANY, INC., Trenton, N. J. Filed May 11, 1939.

BANDIT

For Eye Shields and Sun Shades.
Claims use since Dec. 1, 1938.

Ser. No. 419,337. FISHER SCIENTIFIC COMPANY, Pittsburgh, Pa. Filed May 12, 1939.

ELECDROPODE

For Electrical Instrument for Quantitative and Qualitative Chemical Analysis by Means of the Dropping Mercury Electrode System.
Claims use since May 1, 1939.

Ser. No. 419,374. WILLIAM R. GALTER, doing business as T. O. M. Company, Chicago, Ill. Filed May 13, 1939.

TIME-O-MATIC

For Payroll Calculators.
Claims use since Feb. 1, 1939.

Ser. No. 419,621. MATCH KINO, INC., Chicago, Ill. Filed May 20, 1939.

FLEXMASTER

For Cameras, Photographic Lenses, and Sensitized Photographic Films.
Claims use since Nov. 14, 1934.

Ser. No. 419,642. SERVICE INSTRUMENTS INC., New York, N. Y. Filed May 22, 1939.

VoltOhmyst

For Radio Testing Units, Radio Testing Instruments, and Radio Measuring Instruments.
Claims use since June 1, 1938.

Ser. No. 419,686. READEX MICROPRINT CORPORATION, New York, N. Y. Filed May 22, 1939.

READEX

For Opaque Projector to Aid in Microscopic Reading.
Claims use since May 6, 1939.

CLASS 27

Horological Instruments

Ser. No. 420,301. BULOVA WATCH COMPANY, INC., New York, N. Y. Filed June 7, 1939.

GOLDEN BOY

For Watches—Namely, Wrist or Strap Watches.
Claims use since Jan. 20, 1938.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 420,052. GEMEX COMPANY, Newark, N. J. Filed June 1, 1939.

SILKOMETAL

For Watch Bracelets, Watch Straps, Neck Chains, Watch Chains, Bracelets, Scarf Pins, Finger Rings, Belt Buckles, Ear Ornaments, Hair Ornaments, All the Foregoing Made in Whole or in Part of Precious Metal.
Claims use since Dec. 1, 1938.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 420,162. CALIFORNIA COTTON MILLS COMPANY, Oakland, Calif. Filed June 5, 1939.

THRIFT

For Mops.
Claims use since Jan. 2, 1936.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 411,910. SHAWNEE POTTERY CO., Zanesville, Ohio. Filed Oct. 21, 1938.

MISSION

For Pottery Table and Kitchen Ware, Particularly Bowls, Plates, Dishes, Pitchers, Cups, and Saucers.
Claims use since July 15, 1938.

Ser. No. 419,964. THE EVEREDY COMPANY, Frederick, Md. Filed May 29, 1939.

SIZZEROLE

For Crockery or Ceramic Cooking Ware.
Claims use since May 15, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 419,947. ARCHIBALD U. CAMPBELL, doing business as Tropix Company, South Orange, N. J. Filed May 29, 1939.

Tropix

For Chairs for Outdoor Use.
Claims use since May 16, 1939.

Ser. No. 420,415. KIRSCH COMPANY, Sturgis, Mich. Filed June 12, 1939.

FLEXOLITE

For Venetian Blinds.
Claims use since Apr. 11, 1939.

Ser. No. 420,487. S. KARPEN & BROS., Chicago, Ill. Filed June 14, 1939.

Springtex

For Mattresses, Pillows, Cushions, and Upholstered Furniture.
Claims use since June 1, 1939.

Ser. No. 420,488. KAY MANUFACTURING CORPORATION, New York and Brooklyn, N. Y. Filed June 14, 1939.

CENTERPOISE

For Mattresses and Inner Spring Units for Mattresses.
Claims use since Apr. 1, 1939.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 401,381. FAIRBANKS, MORSE & CO., Chicago, Ill. Filed Dec. 30, 1937.

FAIRBANKS-MORSE

For Automatic Coal Burner.
Claims use since Sept. 1, 1932.

Ser. No. 411,146. AMERICAN FOUNDRY & FURNACE COMPANY, Bloomington, Ill. Filed Oct. 1, 1938.

JUNE-AIRE

For Heating Furnaces Employing Coal, Oil, or Gas as Fuels.
Claims use since June, 1928.

Ser. No. 416,341. ROSS HEATER AND MANUFACTURING COMPANY, INC., Buffalo, N. Y. Filed Feb. 23, 1939.

MONOCAP

For Floating Head Covers for Heat Exchangers.
Claims use since Jan. 5, 1939.

Ser. No. 417,785. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Apr. 1, 1939.

CROSS COUNTRY

For Automobile Defrosting and Ventilating Fans.
Claims use since August, 1937.

Ser. No. 418,004. GENERAL REFRIGERATION CORPORATION, South Beloit, Ill. Filed Apr. 8, 1939.



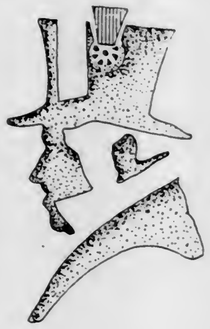
For Air Conditioning Apparatus, Including Ventilating and Air Cleaning Units, Cooling and Dehumidifying Units, Air Cleaning Forced Draft Window Ventilators, and Forced Draft Ventilating and Cooling Units.
Claims use since Mar. 15, 1939.

Ser. No. 418,441. LEONARD H. HOLDER, Washington, D. C. Filed Apr. 19, 1939.

APRIL SHOWERS ROOF COOLER
AIR CONDITIONER

The words "Roof Cooler Air Conditioner" are disclaimed apart from the mark.
For Evaporative Type Air Conditioning Roof Coolers.
Claims use since May 1, 1934.

Ser. No. 419,588. THE MURRAY CORPORATION OF AMERICA, Detroit, Mich. Filed May 19, 1939.



For Stokers.
Claims use since Jan. 26, 1939.

CLASS 36

Musical Instruments and Supplies

Ser. No. 419,315. J. M. SAHLEIN, San Francisco, Calif. Filed May 11, 1939.

Finale

For Metal and Gut Strings for Musical Instruments.
Claims use since Nov. 25, 1933.

CLASS 37

Paper and Stationery

Ser. No. 411,031. S. H. KRESS AND COMPANY, New York, N. Y. Filed Sept. 27, 1938.

Lovely Lady

For Cleansing Tissues.
Claims use since Apr. 27, 1938.

Ser. No. 413,314. THE PARKER PEN COMPANY, Janesville, Wis. Filed Nov. 30, 1938.

PARKOMATIC

For Fountain Pens, Mechanical Pencils, and Desk Sets.
Claims use since Oct. 28, 1938.

Ser. No. 417,337. WM. T. KNOTT COMPANY, INC., New York, N. Y. Filed Mar. 21, 1939.

BEAU-KNOT

For Albums, Rubber Bands, Binders, Bond Paper Fillers, Bond Paper, Notebooks, Blank Forms, Business Record Books, Bristol Board, Desk Calendars and Pads, Blotters, Cards and Forms for Indexes, Metal Clips, Crayons, Pencils, Pens, Penholders, Pen Nibs, Chalk, Diaries, Duplicating Machines, Mailing Envelopes, Letter Heads, Invoices, Rubber Erasers, Files for Correspondence and Papers, Filing Folders, Waxed Paper, Leads, Rulers, Gummed Paper and Cloth, Covers for Sheet Music, Toilet Paper, Paper Napkins, Cleansing Tissues, Crepe Paper, Paper Diapers, Wrapping Paper, Wall Paper, Stencil Paper, Pencil Sharpeners, Tissue-Paper Handkerchiefs, Paper Doilies, Paper Table Cloths, Paper Towels, Paper Weights, Bases for Penholders and Fountain Pens, Ink Wells and Stands, Autographic Registers, Tablet and Blank Books, Photographic Mounts of Paper and Cardboard, and Thumb Tacks.
Claims use since October, 1931.

Ser. No. 418,463. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed Apr. 19, 1939.

United

Cross

For Paper Towels.
Claims use since Mar. 30, 1939.

Ser. No. 419,303. KERR PAPER COMPANY, Amarillo, Tex. Filed May 11, 1939.



The words "Over Value" are disclaimed apart from the mark.
For Note and Composition Books and Book Covers, Covers for Loose-Leaf Notebooks, Filler Sheets for Notebooks, Writing Paper, Envelopes, and Writing Tablets.
Claims use since June, 1933.

Ser. No. 419,330. L. L. BROWN PAPER COMPANY, Adams, Mass. Filed May 12, 1939. Under 10-year proviso.

L.L.BROWN LINEN PAPER CO. LEDGER

For Writing and Printing Papers.
Claims use since Jan. 1, 1890.

Ser. No. 419,331. L. L. BROWN PAPER COMPANY, Adams, Mass. Filed May 12, 1939. Under 10-year proviso.

L.L.BROWN'S LINEN LEDGER

For Writing and Printing Papers.
Claims use since Jan. 1, 1890.

Ser. No. 419,421. FOX RIVER PAPER CORPORATION, Appleton, Wis. Filed May 15, 1939.

Optic GREEN

No claim is made to the term "Green" apart from the mark.
For Ledger Paper.
Claims use since Mar. 17, 1939.

Ser. No. 419,444. PERRY BROTHERS, INC., Lufkin, Tex. Filed May 15, 1939.

FIVE STAR

For School, Office, and Social Stationery, such as Loose Leaf Filler Paper, Composition and Note Books, Drawing, Music, Spelling and Pencil Tablets, Writing Tablets, Typewriter Paper, Second Sheets and Stenographer Note Books, Envelopes and Writing Paper.
Claims use since Mar. 24, 1939.

Ser. No. 420,332. MENASHA PRODUCTS COMPANY, Menasha, Wis. Filed June 9, 1939.

PAR-A-LUX

For Waxed Paper.
Claims use since May 20, 1939.

Ser. No. 420,505. WALDES KOH-I-NOOR, INC., Long Island City, N. Y. Filed June 14, 1939.

PERFEX

For Paper Clips.
Claims use since Apr. 11, 1939.

CLASS 38

Prints and Publications

Ser. No. 399,139. INVENTIONS PUBLISHING COMPANY, Washington, D. C. Filed Oct. 30, 1937.

Invention

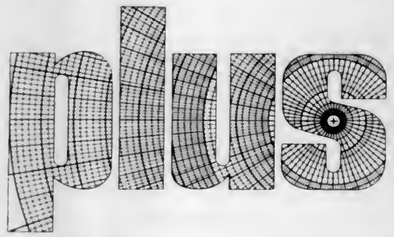
For Periodical.
Claims use since Oct. 12, 1937.

Ser. No. 412,298. THE KINGSWAY PRESS, INC., New York, N. Y. Filed Nov. 2, 1938.

Your Personality

For Magazine Published from Time to Time.
Claims use since Oct. 27, 1938.

Ser. No. 415,423. TIME, INCORPORATED, New York, N. Y. Filed Jan. 30, 1939.



For Section of a Magazine.
Claims use since Dec. 6, 1938.

Ser. No. 415,424. TIME, INCORPORATED, New York, N. Y. Filed Jan. 30, 1939.

plus

+

For Section of a Magazine.
Claims use since Dec. 6, 1938.

Ser. No. 416,755. HERBERT C. WYNN, Pleasantville, N. Y. Filed Mar. 6, 1939.

Wayfarers Maps

The word "Maps" is disclaimed apart from the mark.
For Maps.
Claims use since February, 1939.

Ser. No. 417,584. THE NEW YORK SHOPPING CENTER INC., New York, N. Y. Filed Mar. 28, 1939.

NEW YORK SHOPPING CENTER
AGENCIES IN WORLD'S LEADING CITIES

The words "New York" and "Agencies in World's Leading Cities" are disclaimed apart from the mark.
For Catalogues.
Claims use since Feb. 15, 1939.

Ser. No. 419,340. ROYAL B. LEE, San Diego, Calif. Filed May 12, 1939.

"March of Time"

For Calendars.
Claims use since Apr. 26, 1939.

CLASS 39

Clothing

Ser. No. 401,869. LORD & TAYLOR, New York, N. Y. Filed Jan. 13, 1938.

DOODLE PRINTS

Applicant disclaims the word "Prints" apart from the mark.
For Scarfs, Neckties, and Mufflers.
Claims use since Dec. 13, 1937.

Ser. No. 408,045. THE B. V. D. CORPORATION, Baltimore, Md. Filed June 30, 1938.

TEX-CRAFT

For Collars for Men's Shirts.
Claims use since May 27, 1938.

Ser. No. 411,344. A. SAGNER & SONS, INC., Baltimore, Md. Filed Oct. 6, 1938.

"SAGSON"
ALL WORSTED
Scientifically cooled

The words "All Worsted Scientifically Cooled" are disclaimed apart from the mark.
For Men's Suits, Pants, and Overcoats.
Claims use since July, 1938.

Ser. No. 412,572. ROBERT A. WENTZEL, doing business as Fae Manufacturing Company, Palmyra, Pa. Filed Nov. 9, 1938.

Faemade

For Ladies', Men's, and Children's Undergarments—Namely, Union Suits, Vests, Shirts, Shorts, Shorties, Slips, Nightgowns, Pajamas, Nightshirts, Panties, Brassières, Step-Ins in the Nature of Underdrawers, Bloomers, Petticoats, and Chemise; and Ladies' Aprons and House Frocks.
Claims use since Nov. 4, 1935.

Ser. No. 415,564. MARK KNEBEL, New York, N. Y. Filed Jan. 30, 1939.

"Lido"

TOWN SHIRT

Applicant disclaims the words "Town" and "Shirt" apart from the mark.
For Ladies' and Misses' Blouses and Dresses.
Claims use since July, 1937.

Ser. No. 418,610. TOOTAL BROADHURST LEE COMPANY LIMITED, Manchester, England. Filed Apr. 22, 1939.

TEBILIZED

For Dresses, Gowns, Frocks, Blouses, Children's Dresses, Skirts, Negligees for Use by Women and Children, and Jumpers, Coats, Shorts, Dressing Gowns, Pyjamas, Bathing Suits, and Ties for Use by Men, Women, and Children.
Claims use since Mar. 20, 1939.

Ser. No. 418,624. MURRAY BENNETT, doing business as Bennett Brassiere Company, New York, N. Y. Filed Apr. 24, 1939.

LYRICS by BENNETT

Applicant disclaims the words "By Bennett" except as shown.
For Brassières and Girdles.
Claims use since Nov. 1, 1938.

Ser. No. 418,877. INVISUPORT MANUFACTURING CORP., Brooklyn, N. Y. Filed Apr. 29, 1939.

INVISUPORT

For Combination Waistbands and Inner Waist Belts for Garments.
Claims use since Mar. 28, 1939.

Ser. No. 419,005. THE BAMBERGER-REINTHAL COMPANY, Cleveland, Ohio. Filed May 3, 1939.

MARBETH

For Foundation Garments, Girdles, Brassières, and Corsets.
Claims use since Apr. 15, 1939.

Ser. No. 419,010. CHESTERFIELD HAT CORPORATION, New York, N. Y. Filed May 3, 1939.

The BRAZILIA Hatkerchief

The words "Hatkerchief" and the representation of the label per se are disclaimed apart from the mark.
For Ladies' and Misses' Hats.
Claims use since Mar. 1, 1939.

Ser. No. 419,130. BENJAMIN WARSHAUER, Stockton, Calif. Filed May 5, 1939.

Hoolygan
Kick-abouts
TRADE MARK
Styled in Hollywood

The expressions "Trade-Mark" and "Styled in Hollywood" are disclaimed.
For Shoes of Leather, Rubber, or Fabric, or Combinations of Said Materials.
Claims use since Apr. 28, 1939.

Ser. No. 419,236. SAKS & COMPANY, New York, N. Y. Filed May 9, 1939.

BOOLA BOOLA

For Misses' Dresses, Coats, Suits, and Hats and Caps.
Claims use since Mar. 31, 1939.

Ser. No. 419,260. J. J. HAGGARTY STORES, INC., Los Angeles, Calif. Filed May 10, 1939.

For Women's and Children's Coats, Dresses, Suits, Skirts—Namely, Outer Skirts and Under Skirts, Sweaters; Robes—Namely, Bath Robes, Lounging Robes, and Bed Robes; Millinery—Namely, Hats, Berets, Tams, Turbans, and Bonnets; Furs—Namely, Neck-Pieces, Capes, Stoles, Jackets, Coats, Cloaks, Muffs, Bands, Collars, Cuffs, Caps, and Toques; Hosiery, Lingerie—Namely, Slips, Panties, Brassières, Negligees, Night-Gowns, Pajamas, Step-Ins and Girdles; Corsets; Gloves; and Shoes of Leather, Fabric or a Combination of the Same; Men's and Boys' Suits, Hats; Neckwear—Namely, Neck-Ties, Scarves, Mufflers, Neckerchiefs, Neck-Bands, Neck-Cloths and Cravats; Overcoats, Underwear, Hosiery, and Shoes of Leather, Fabric or a Combination Thereof.
Claims use since Feb. 26, 1939.

Ser. No. 419,262. KNOTHE BROTHERS COMPANY INC., New York, N. Y. Filed May 10, 1939.

RADIAL ACTION

For Belts for Outer Wear, Suspenders, and Garters.
Claims use since Apr. 24, 1939.

Ser. No. 419,272. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed May 10, 1939.

SMARTALLS

No claim is made to the word "Smart" apart from the mark.

For Women's and Girls' Sports Apparel—Namely, Slacks, Shirts, Playsuits, and Overalls.

Claims use since June 4, 1938.

Ser. No. 419,284. A. WERMAN & SONS, INC., New York, N. Y. Filed May 10, 1939.

Sluggers

For Children's Shoes Made of Leather and Rubber.

Claims use since May 1, 1939.

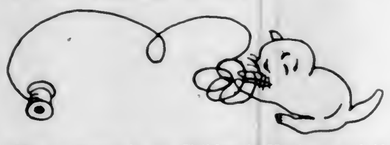
Ser. No. 419,291. ISAAC COHEN & SONS CLOTHES CO. INC., New York, N. Y. Filed May 11, 1939.



For Men's Coats—Namely, Topcoats and Overcoats.

Claims use since July, 1938.

Ser. No. 419,469. BELDING HEMINWAY COMPANY, New York, N. Y. Filed May 16, 1939.



For Men's, Women's, or Children's Hosiery and Underwear.

Claims use since 1920 on hosiery; since 1927 on underwear.

Ser. No. 419,475. JO DEE HARRIS, Tyler, Tex. Filed May 16, 1939.



Jo Dee Harris

The portrait and signature are those of applicant.

For Maternity Dresses.

Claims use since Aug. 1, 1938.

Ser. No. 419,485. NATIONAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Filed May 16, 1939.

Beautiflex Top

No claim is made to the term "Top" apart from the mark.

For Hosiery.

Claims use since Apr. 15, 1939.

Ser. No. 419,486. NATIONAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Filed May 16, 1939.

IDENTITY Crepes

No claim is made to the word "Crepes" apart from the mark.

For Genuine Crepe Hosiery.

Claims use since Feb. 11, 1939.

Ser. No. 419,626. NATIONAL SILK HOSIERY MILLS, INC., Indianapolis, Ind. Filed May 20, 1939.

Wearonized

For Hosiery.

Claims use since Apr. 21, 1939.

Ser. No. 419,640. TIDY PRODUCTS CORPORATION, New York, N. Y. Filed May 20, 1939.

SPEED-EZE

For Infant's or Child's Over Garment—Namely, Snow Suits.

Claims use since May 10, 1939.

Ser. No. 419,654. BOURBEUSE SHOE COMPANY, Union, Mo. Filed May 22, 1939.

GLAMOUR By Bourbeuse

For Shoes, Principally of Leather.

Claims use since May 1, 1939.

Ser. No. 419,798. EASTERN FOOTWEAR CORPORATION, Dolgeville and New York, N. Y. Filed May 25, 1939.

BLIMP

For Ladies' and Misses' Shoes and Slippers Made of Leather, Canvas, Fabric, or Compositions or Combinations Thereof.

Claims use since April, 1939.

Ser. No. 420,006. I. C. ISAACS & COMPANY INC., Baltimore, Md. Filed May 31, 1939.



For Breeches, Jodhpurs, Pants, Slacks, Jackets, and Riding Coats for Men, Women, and Children.

Claims use since Oct. 1, 1937.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 416,233. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 18, 1939. Under section 5b of the act of 1905 as amended June 10, 1938.

DU PONT

For Barrettes, Combs, Hair Curlers, Hair Ornaments, Hair Pins, Shoehorns, and Shoehooks, Except Those Made of Precious Metal.

Claims use since November, 1924.

Ser. No. 419,647. TOBIN, SPORN & GLASER, INC., New York, N. Y. Filed May 20, 1939.

LUSTRANE

For Crochet Needles, Tufting Needles, Rug Hooks, Braid, Tape, Textile Fabrics Stamped for Drawn Work; Stamped, Tinted, and Painted Silk, Linen and Cotton Articles for Embroidery; Pillow Slips, Shams, and Bolster Cases Stamped for Embroidery; Foundation Letters and Figures for Embroidery; Embroidered Letters, Figures, Insignia and Medallions; Fancy Pin Cushions; Fitted Sewing Baskets and Sewing Cases, and Teneriffe Wheels.

Claims use since January, 1912.

Ser. No. 419,936. ROLLOCURL CORPORATION, New York, N. Y. Filed May 27, 1939.

RollOcurl

For Hair Combs.

Claims use since Oct. 6, 1938.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 406,388. THE F. & R. LAZARUS & COMPANY, Columbus, Ohio. Filed May 16, 1938.

Bed-grip

For Comforters.

Claims use since Dec. 30, 1937.

Ser. No. 416,770. MILRIDGE WOOLEN COMPANY, INC., New York, N. Y. Filed Mar. 7, 1939.



The representation of the label, per se, and all notations except "Viking", "Milridge", and "Milridge Woolen Company, Inc." apart from the mark as shown are disclaimed.

For Piece Goods of Cotton.

Claims use since Mar. 6, 1939.

Ser. No. 417,298. PRINCETON WORSTED MILLS, INC., Trenton, N. J. Filed Mar. 20, 1939.

Evening Cool

The word "Cool" is disclaimed apart from the mark.
For Worsted and Woolen Piece Goods.
Claims use since June 30, 1938.

Ser. No. 417,962. D. FREID & SONS, INC., New York, N. Y. Filed Apr. 7, 1939.



The mark comprises a woven design having a continuous warp thread woven in the selvage edge of the goods in the form of blocks representing a continuous chain of large links, each joined by a smaller link. The representation of the goods is disclaimed.
For Silk Crepe Satins, Dye Crepes, and Acetate and Rayon Crepe Satins.
Claims use since July, 1923.

Ser. No. 418,285. ACME BACKING CORPORATION, New York, N. Y. Filed Apr. 15, 1939.

LAST-I-CIZE

For Knitted, Netted, Woven, Cotton, Silk, Wool, Rayon, Celanese, or Similar Piece Goods.
Claims use since Mar. 7, 1938.

Ser. No. 418,827. MURIEL GOLDFARB, New York, N. Y. Filed Apr. 28, 1939.

Tripl-tuft

The words "Triple Tuft" are disclaimed apart from the mark.
For Bath Mats, Mats, and Rugs.
Claims use since Jan. 2, 1937.

Ser. No. 419,389. S. T. PALAY TEXTILE CORPORATION, New York, N. Y. Filed May 13, 1939.

TRU-SEW CREPE

The words "Sew" and "Crepe" are disclaimed apart from the mark.
For Rayon Piece Goods.
Claims use since Feb. 9, 1939.

Ser. No. 419,390. S. T. PALAY TEXTILE CORPORATION, New York, N. Y. Filed May 13, 1939.

SEW-TRU CREPE

The words "Sew" and "Crepe" are disclaimed apart from the mark.
For Rayon Piece Goods.
Claims use since Feb. 9, 1939.

Ser. No. 419,546. CALLAWAY MILLS, La Grange, Ga. Filed May 18, 1939.

GLORIA

For Textile Bath Rugs, Mats, and Seat Covers.
Claims use since Oct. 21, 1935.

Ser. No. 419,547. CALLAWAY MILLS, La Grange, Ga. Filed May 18, 1939.

VALRIDGE

For Textile Bath Rugs, Mats, and Seat Covers.
Claims use since Feb. 21, 1935.

Ser. No. 419,548. CALLAWAY MILLS, La Grange, Ga. Filed May 18, 1939.

VALTUFT

For Textile Bath Rugs, Mats, and Seat Covers.
Claims use since Mar. 18, 1939.

Ser. No. 419,646. TOBIN, SPORN & GLASER, INC., New York, N. Y. Filed May 20, 1939.

JEWEL

For Cotton Cloth Piece Goods, Renaissance Lace, Cluny Lace, and Medallion Lace; Linen and Cotton Towels; Table Napkins and Table Covers; Linen, Cotton, Silk, Embroidery, Crocheted, and Teneriffe Doilies; Doily Centerpieces, Bed Spreads, Textile Piano Covers, Curtains, Drapes, Furniture Scarfs and Covers, Tidies, and Mantel Lambrequins; Pieces of Textile Fabric Material Embellished with Drawn Work; Embroidered, Crocheted, and Teneriffe Pillow Slips, Shams, Bolster Cases, Mats, and Shirtwaist Patterns; Bureau and Dresser Scarfs.
Claims use since January, 1915.

Ser. No. 419,710. EDWIN & LOUIS BRY, INC., New York, N. Y. Filed May 23, 1939.

RHAPSODY TWEED

The word "Tweed" is disclaimed apart from the mark.
For Woolen and Worsted Piece Goods.
Claims use since June 13, 1938.

Ser. No. 420,119. TABIN-PICKER & COMPANY, Chicago, Ill. Filed June 2, 1939.

GEORGIANA

For Cotton and Spun Rayon Piece Goods.
Claims use since July 1, 1937.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 418,927. THE F. KOEHLER MANUFACTURING COMPANY, Newport, Ky. Filed May 1, 1939.

Invisible NASAL FILTER

The words "Invisible" and "Nasal Filter" are disclaimed apart from the mark.
For Medical Appliance—Namely, a Nasal Filter or Respirator.
Claims use since Mar. 1, 1939.

Ser. No. 419,878. PHILADELPHIA WHOLESALE DRUG COMPANY, Philadelphia, Pa. Filed May 26, 1939.

Druco

For Absorbent Cotton.
Claims use since Feb. 1, 1934.

Ser. No. 420,146. SCOTT & BOWNE, Bloomfield, N. J. Filed June 3, 1939.

JERMAX

For Vaginal Powder Insufflators.
Claims use since Mar. 15, 1939.

Ser. No. 420,180. THE KILLIAN MANUFACTURING COMPANY, Akron, Ohio. Filed June 5, 1939.

APRIS

For Prophylactic Rubber Articles for the Prevention of Contagious Diseases.
Claims use since Mar. 3, 1939.

Ser. No. 420,489. THE KENDALL COMPANY, Walpole, Mass. Filed June 14, 1939.

ZYTOR

For Sutures.
Claims use since May 24, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 412,188. STEPHEN JANIK, Niagara Falls, N. Y. Filed Oct. 29, 1938.



The representation of the label and container are disclaimed per se.
For Nonalcoholic, Noncereal, Maltless beverage, Sold as a Soft Drink and Sirup, and Extract for Making the Same.
Claims use since March, 1937.

Ser. No. 419,298. FEIGENSON BROS. CO., INC., Detroit, Mich. Filed May 11, 1939.

Faygo 16

Applicant disclaims "16" except as used in the composite trade-mark "Faygo 16".
For Sixteen Ounce Bottles of Maltless, Nonalcoholic, Flavored, Carbonated Beverages Such as Ginger Ale, Orange Beverage, Lime Rickey, Sparkling Water, Lemon Beverage, Root Beer, Cherry Beverage, Strawberry Beverage, Grape Beverage, Cream Soda, and the Like.
Claims use since Jan. 1, 1939.

Ser. No. 419,636. MASAJI SAWADA, doing business as Tea Gold Co., New York, N. Y. Filed May 20, 1939.

Tea Gold

For Maltless, Nonalcoholic, Noncereal, Carbonated Tea Beverages in the Nature of Soft Drinks and Syrups, and Extracts for Making the Same.
Claims use since May 15, 1939.

Ser. No. 419,876. PHILADELPHIA WHOLESALE DRUG COMPANY, Philadelphia, Pa. Filed May 26, 1939.

Dcuco

For Fountain Syrup Concentrated Strawberry and Fountain Syrup Concentrated Pineapple.
Claims use since Mar. 15, 1932.

Ser. No. 420,213. CANADA DRY GINGER ALE, INCORPORATED, New York, N. Y. Filed June 6, 1939.

ZIP IN EVERY SIP

For Nonalcoholic, Maltless Beverages.
Claims use since Feb. 6, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 402,320. VEGETABLE OIL PRODUCTS COMPANY, INC., Los Angeles, Calif. Filed Jan. 25, 1938.

PARDO

For Hydrogenated Cottonseed Oil Shortening.
Claims use since Nov. 30, 1937.

Ser. No. 409,208. ROBERT T. POOLE, Candor and Troy, N. C. Filed Aug. 3, 1938.

Tuckahoe



For Fresh Peaches.
Claims use since 1925.

Ser. No. 411,200. JOHN ALFRED MOORE, doing business as The Amino Co., Syracuse, N. Y. Filed Sept. 28, 1938.

AMINO

For Concentrate of Vegetables Containing Vitamins and Mineral Salts Adapted to Be Taken in Milk.
Claims use since Jan. 1, 1938.

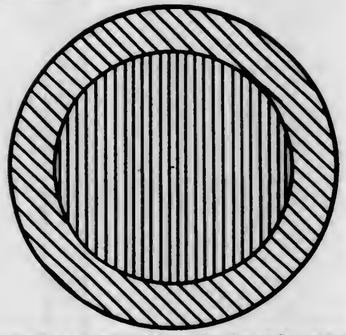
Ser. No. 413,773. CASON J. CALLAWAY, Hamilton, Ga. Filed Dec. 13, 1938.



The words "Cason Callaway" and "R. F. D., Hamilton, Georgia" and the representation of the label are disclaimed apart from the mark. The background of the label is of a powder blue color.

For Farm Products—Namely, Apple Jelly, Mint Jelly, Watermelon Rind Preserves, Watermelon Rind Pickles, Wild Plum Sauce, Apple Sauce, Apple Butter, Canned Carman Clearseed Peaches, Canned LeConte Pears, Canned Whole Plums, Green Tomato Catsup, Tomato Catsup and Eggs.
Claims use since Nov. 2, 1938.

Ser. No. 416,782. WESTERN CANNERS, INC., Newport Beach, Calif. Filed Mar. 7, 1939.



The applicant corporation is the sole owner of the following registrations: 107,604, Curtis Olive Corporation, Dec. 14, 1915 (renewed in the name of Western Canners, Inc.), and 122,856, Curtis Olive Corporation, Sept. 24, 1918. The drawing is lined for green and red.
For Canned Ripe Olives, Pimentos, and Fish.
Claims use since Mar. 22, 1934.

Ser. No. 417,718. TEAGUE-MCKEVETT ASSOCIATION, Santa Paula, Calif. Filed Mar. 31, 1939.



Applicant is the owner of registration No. 89,397.
For Fresh Citrus Fruit.
Claims use since Mar. 8, 1912.

Ser. No. 417,829. WAYNE CANDIES, INC., Fort Wayne, Ind. Filed Apr. 3, 1939.

BUN

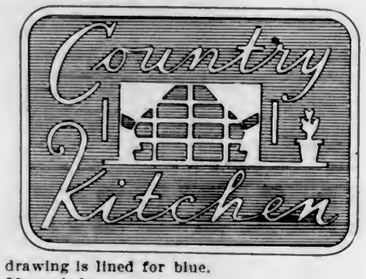
For Candy.
Claims use since June, 1906.

Ser. No. 418,015. ALBERT W. SABEL, New York, N. Y. Filed Apr. 8, 1939.



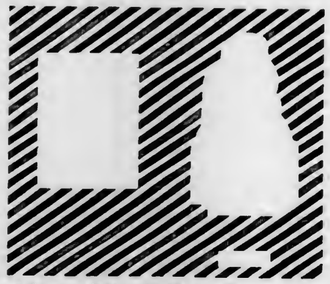
The word "Chew" is disclaimed apart from the mark. The drawing is lined for red.
For Chewing Gum.
Claims use since Feb. 24, 1939.

Ser. No. 418,722. HENRY A. MCCOMAS, New Canaan, Conn. Filed Apr. 26, 1939.



The drawing is lined for blue.
For Marmalades.
Claims use since Apr. 14, 1939.

Ser. No. 418,952. THE SHELLABARGER MILL & ELEVATOR COMPANY, doing business as The Shellabarger Mills, Salina, Kans. Filed May 1, 1939.



Trade-mark consists of diagonally disposed spaced stripes of red, light blue and dark blue on a white background the widths of the stripes and spaces being equal, and disposed on the front and back of the containers.
For Wheat Flour.
Claims use since Mar. 18, 1939.

Ser. No. 418,953. A. W. SISK & SON, Aberdeen and Preston, Md. Filed May 1, 1939.

COUPON

For Canned Vegetables.
Claims use since Nov. 14, 1938.

Ser. No. 419,030. L. M. MCLAREN PRODUCE, INC., Yuma, Ariz. Filed May 3, 1939.



The applicant is the owner of registration No. 329,943, dated Nov. 19, 1935. No claim is made to the words "Quality Pak" apart from the mark shown or to the representation of a label.
For Fresh Vegetables and Fresh Melons.
Claims use since June 16, 1935.

Ser. No. 419,109. GEORGE NIXON DECKER, doing business as Decker Grain Company, Rochester, N. Y. Filed May 5, 1939.

WHEAT GEM

No claim is made to the word "Wheat" apart from the mark.
For Breakfast Cereal.
Claims use since Nov. 1, 1938.

Ser. No. 419,119. MEAD JOHNSON & COMPANY, Evansville, Ind. Filed May 5, 1939.



Applicant is the owner of United States trade-mark registrations Nos. 128,743, 136,483, 136,484, and 136,485.
For Specially Prepared Food for Infants and Invalids.
Claims use since July 1, 1920.

Ser. No. 419,327. EDITH FORSTER ABEEL, Jamesburg, N. J. Filed May 12, 1939.

FORSGATE

For Fresh Potatoes, Fresh Apples, Canned Beans, Canned Beets, Canned Corn, Canned Peas, Butter, Eggs, Cheese, Milk, Cream, Ice Cream, Live Poultry, Dressed Poultry, and Mixed Dairy Feed.
Claims use since August, 1921.

Ser. No. 419,328. EDITH FORSTER ABEEL, Jamesburg, N. J. Filed May 12, 1939.



The words "New Jersey" are disclaimed except as shown.

For Fresh Potatoes, Fresh Apples, Canned Beans, Canned Beets, Canned Corn, Canned Peas, Butter, Eggs, Cheese, Milk, Cream, Ice Cream, Live Poultry, Dressed Poultry, and Mixed Dairy Feed.

Claims use since August, 1921.

Ser. No. 419,484. MAYFLOWER DOUGHNUT CORP., New York, N. Y. Filed May 16, 1939.

Honey Chile

No claim is made to the word "Honey" alone apart from the mark.

For Doughnuts.

Claims use since Apr. 16, 1939.

Ser. No. 419,783. WHITE CREAMERY COMPANY, INC., Charlestown, Mass. Filed May 24, 1939.



The words "Dairy" and "Products" are disclaimed apart from the mark.

For Cream Cheese, Soured Cream, Cottage Cheese, Whipped Butter, and Butter.

Claims use since May 1, 1939.

Ser. No. 419,872. MONITOR MILLS, INC., New York, N. Y. Filed May 26, 1939.

Kathleen

For Tea.

Claims use since May 11, 1939.

Ser. No. 419,974. NORRIS INCORPORATED, Atlanta, Ga. Filed May 29, 1939.

NORMS

For Candy.

Claims use since Nov. 28, 1933.

Ser. No. 419,997. CHAPRALES & MACRIS, Nogales, Ariz. Filed May 31, 1939.

CHA-MA

For Fresh Vegetables—Namely, Tomatoes.

Claims use since 1933.

Ser. No. 420,024. THE QUAKER OATS COMPANY, Chicago, Ill. Filed May 31, 1939.

OATIES

For Prepared Breakfast Cereal.

Claims use since May 17, 1939.

Ser. No. 420,510. NATIONAL BISCUIT COMPANY, New York, N. Y. Filed June 15, 1939.



Applicant is the owner of trade-mark registration No. 63,286 covering the word "Premium", effected under the 10-year proviso. The lining of the drawing indicates red and blue. The words "Crackers" and "Salted" and the representation of the goods are disclaimed apart from the mark as shown.

For Bakery Products—Namely, Crackers.

Claims use since Aug. 8, 1934.

CLASS 47

Wines

Ser. No. 417,804. GARRETT & COMPANY, INC., Brooklyn, N. Y. Filed Apr. 3, 1939.

Virginia Belle

The word "Virginia" is disclaimed apart from the mark.

For Wines.

Claims use since Mar. 8, 1939.

Ser. No. 418,854. SOCIETE ANONYME ALLIANCE VINICOLE DE BOURGOGNE, Nuits Saint-Georges, France. Filed Apr. 28, 1939.



All notations except "Bruninghaus" are disclaimed apart from the mark.

For Still Wines.

Claims use since Dec. 23, 1938.

Ser. No. 420,026. SCHENLEY IMPORT CORPORATION, New York, N. Y. Filed May 31, 1939.

CORONATION

For Wines.

Claims use since Jan. 26, 1934.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 418,689. CHARLES MACKINLAY & COMPANY, Leith, Scotland. Filed Apr. 25, 1939. Under 10-year proviso.

MACKINLAY'S

For Scotch Whisky.

Claims use since 1873.

Ser. No. 419,306. MID-CONTINENTAL LIQUOR DIST., INC., St. Louis, Mo. Filed May 11, 1939.

Glen Echo

For Whiskey.

Claims use since Apr. 19, 1939.

Ser. No. 419,934. PERNOD S. A. (SOCIÉTÉ ANONYME), Couvet, Switzerland. Filed May 27, 1939.



The drawing is lined for red.

For Cordials.

Claims use since 1891.

Ser. No. 420,041. POPPER-MORSON CO. INC., New York, N. Y. Filed June 1, 1939.

GRIERSON'S

VAT. 1

Applicant disclaims the word "Grierson's" except as shown.

For Whiskey.

Claims use since 1933.

Ser. No. 420,406. JOSEPH S. FINCH AND COMPANY, New York, N. Y., and Schenley, Pa. Filed June 12, 1939.

Black Tassel

For Gin, Whiskey, Rum, Brandy, and Alcoholic Cordials.

Claims use since Mar. 23, 1939.

Ser. No. 420,407. JOSEPH S. FINCH AND COMPANY, New York, N. Y., and Schenley, Pa. Filed June 12, 1939.

Red Tassel

For Gin, Whiskey, Rum, Brandy, and Alcoholic Cordials.

Claims use since Mar. 23, 1939.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 420,128. THE ASSOCIATED GENERAL CONTRACTORS OF AMERICA, INC., Washington, D. C. Filed June 3, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

THE ASSOCIATED GENERAL CONTRACTORS · OF AMERICA · A G C

For Electrotypes, and Porcelain Signs (Nonelectrical). Claims use since 1919.

Ser. No. 420,358. ASHER & BORETZ, INC., New York, N. Y. Filed June 10, 1939.

Miro-Flex

For Artificial Leather. Claims use since May 18, 1939.

Ser. No. 420,462. MORSE-STARRETT PRODUCTS COMPANY, Oakland, Calif. Filed June 13, 1939.

STECCONE

For Squeegees and Parts Thereof for Window Washers. Claims use since Jan. 1, 1939.

Ser. No. 420,463. NAAMLOOZE VENNOOTSCHAP MAATSCHAPPIJ VOOR WASVERWERKING, Amersfoort, Netherlands. Filed June 13, 1939.

FLYLAND

For Fly-Catchers and Fly-Ribbons. Claims use since Apr. 1, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

JULY 25, 1939

369,381. VALVE NEEDLES AND VALVE SEATS FOR EXPANSION VALVES. DETROIT LUBRICATOR COMPANY, Detroit, Mich.
Filed January 29, 1936. Serial No. 374,234. PUBLISHED MAY 16, 1939. Class 13.

369,382. COTTON PILE FABRICS IN THE PIECE. SIDNEY BLUMENTHAL & CO. INC., New York, N. Y.
Filed March 9, 1936. Serial No. 375,748. PUBLISHED MAY 9, 1939. Class 42.

369,383. PIECE GOODS OF COTTON, RAYON, MUSLIN, SILK, AND/OR COMBINATIONS OF SAME. DUMARI TEXTILE CO., INC., New York, N. Y.
Filed July 6, 1936. Serial No. 380,626. PUBLISHED SEPTEMBER 14, 1937. Class 42.

369,384. PIECE GOODS OF COTTON, RAYON, MUSLIN, SILK, AND/OR COMBINATIONS OF SAME. DUMARI TEXTILE CO., INC., New York, N. Y.
Filed July 10, 1936. Serial No. 380,865. PUBLISHED SEPTEMBER 14, 1937. Class 42.

369,385. VITAMINE CANDY FOR DOMESTIC ANIMALS. CANINE VITA-CANDY COMPANY, INC., Waterbury, Conn.
Filed December 23, 1936. Serial No. 387,061. PUBLISHED MAY 16, 1939. Class 46.

369,386. SPONGE RUBBER CUSHIONS, MATTRESSES, AND PADDING FOR AUTOMOBILE SEAT CUSHIONS, FURNITURE UPHOLSTERY, BED MATTRESSES, AND THE LIKE. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio.
Filed October 1, 1937. Serial No. 398,004. PUBLISHED FEBRUARY 14, 1939. Class 32.

369,387. PRINTING INKS, STENCIL AND MARKING INKS, AND STENCIL INK IN THE FORM OF CAKES. BLACK BEAR COMPANY, INC., Long Island City, N. Y.
Filed October 21, 1937. Serial No. 398,753. PUBLISHED JANUARY 17, 1939. Class 11.

369,388. MOTOR TRUCKS EQUIPPED TO RUN ON EITHER A RAILROAD TRACK OR A HIGHWAY. EVANS PRODUCTS COMPANY, Detroit, Mich.
Filed November 22, 1937. Serial No. 400,001. PUBLISHED MAY 16, 1939. Class 19.

369,389. WOVEN TEXTILE RUGS AND CARPETS. BIGELOW-SANFORD CARPET CO. INC., Thompsonville, Conn.
Filed November 27, 1937. Serial No. 400,185. PUBLISHED MAY 16, 1939. Class 42.

369,390. WINES. SCHENLEY IMPORT CORPORATION, New York, N. Y.
Filed December 7, 1937. Serial No. 400,571. PUBLISHED MAY 16, 1939. Class 47.

369,391. WATCHES. A. G. SCHWAB & SONS, INC., Cincinnati, Ohio.
Filed January 13, 1938. Serial No. 401,916. PUBLISHED MAY 16, 1939. Class 27.

369,392. CLOCKS AND WATCHES. GENERAL TIME INSTRUMENTS CORPORATION, La Salle, Ill.
Filed January 27, 1938. Serial No. 402,370. PUBLISHED MAY 16, 1939. Class 27.

369,393. FRESH CITRUS FRUIT. CARRIE E. MARCY, doing business as Marcy Ranch, Santa Ana, Calif.
Filed January 31, 1938. Serial No. 402,533. PUBLISHED MAY 16, 1939. Class 46.

369,394. FILTER PAPERS ALREADY CUT AND FILTER PAPERS ALREADY CUT AND FOLDED. "DELTA" PAPIER- UND FILTER-KOMMANDITGESELLSCHAFT, BÜNOELER & CO., Düren, Germany.
Filed Febraury 9, 1938. Serial No. 402,852. PUBLISHED MAY 16, 1939. Class 31.

369,395. SHEETS OF COLORED GLASS TO BE CUT UP FOR TILES AND OTHER USES FOR STRUCTURAL WORK. SEMON BACHE & COMPANY, New York, N. Y.
Filed February 16, 1938. Serial No. 403,095. PUBLISHED MAY 16, 1939. Class 33.

369,396. PHOTO-ENGRAVING EQUIPMENT AND SUPPLIES—NAMELY, CAMERAS INCLUDING AUTOMATIC AND SPECIAL NEWSPAPER CAMERAS, ETC. THE AURORA SCHOOL OF PHOTO ENGRAVING, Aurora, Mo.
Filed March 1, 1938. Serial No. 403,536. PUBLISHED MAY 16, 1939. Class 26.

369,397. MACHINE NEEDLES, KNIVES OF STEEL AND STAINLESS STEEL, SCISSORS AND SHEARS. THE BOYE NEEDLE COMPANY, Chicago, Ill.
Filed March 7, 1938. Serial No. 403,750. PUBLISHED MAY 16, 1939. Class 23.

369,398. OIL OR ELECTRIC WATER HEATING, LAVATORY, AND LUNCH WARMING UNITS. THE SHOWERWAY COMPANY, Minneapolis, Minn.
Filed March 24, 1938. Serial No. 404,452. PUBLISHED MAY 16, 1939. Class 34.

369,399. INSULATED ELECTRICAL WIRE AND CABLE. ANACONDA WIRE & CABLE COMPANY, New York, N. Y.
Filed March 26, 1938. Serial No. 404,510. PUBLISHED MAY 16, 1939. Class 21.

369,400. CANNED SOUPS, ONLY. KEMCO PRODUCTS COMPANY, Kokomo, Ind.
Filed March 26, 1938. Serial No. 404,532. PUBLISHED NOVEMBER 15, 1938. Class 46.

369,401. DITCH DIGGING MACHINES, CLAY AND SAND DIGGING MACHINES, SOIL PULVERIZING MACHINES, CONCRETE BREAKING MACHINES, TRENCH EXCAVATING MACHINES, HIGHWAY WIDENING MACHINES, ETC. THE BUCKEYE TRACTION DITCHER COMPANY, Findlay, Ohio.
Filed March 29, 1938. Serial No. 404,596. PUBLISHED MAY 9, 1939. Class 23.

369,402. SHOVELING MACHINES HAVING A CRANE-SUPPORTED SHOVEL. THE BUCKEYE TRACTION DITCHER COMPANY, Findlay, Ohio.
Filed March 29, 1938. Serial No. 404,597. PUBLISHED MAY 9, 1939. Class 23.

369,403. KITCHEN FURNITURE—NAMELY, TABLES, CHAIRS, SERVERS, CABINETS; JUVENILE FURNITURE—NAMELY, DESKS, TABLES, CHAIRS, DRESSERS, CHESTS, NOVELTY FURNITURE, MATTRESSES, AND BED SPRINGS. UNITED FURNITURE STORES, Chicago, Ill.
Filed May 19, 1938. Serial No. 406,535. PUBLISHED JULY 12, 1938. Class 32.

369,404. PNEUMATIC TIRES AND TUBES FOR VEHICLE WHEELS. APEX TIRE INC., Providence, R. I.
Filed July 18, 1938. Serial No. 408,592. PUBLISHED MAY 16, 1939. Class 35.

369,405. AUTOMATIC PHOTOGRAPHING APPARATUS. WILLIAM W. RICE, Chicago, Ill.
Filed July 19, 1938. Serial No. 408,658. PUBLISHED OCTOBER 4, 1938. Class 26.

369,406. YARN. MONARCH MILLS, INCORPORATED, Cleveland, Ohio.
Filed July 26, 1938. Serial No. 408,929. PUBLISHED SEPTEMBER 27, 1938. Class 43.

369,407. BEDSPREADS, BATH MATS, AND OTHER CHENILLE AND TUFTED ARTICLES. G. H. RAUSCHENBERG, INC., Dalton, Ga.
Filed July 22, 1938. Serial No. 408,936. PUBLISHED MAY 16, 1939. Class 42.

369,408. RAYON YARN IN THE FORM OF SKEINS, CONES, ETC., FOR USE IN THE PRODUCTION OF FABRICS OR ARTICLES OF WEARING APPAREL. INDUSTRIAL RAYON CORPORATION, Cleveland, Ohio.
Filed August 13, 1938. Serial No. 409,573. PUBLISHED APRIL 25, 1939. Class 43.

369,409. PAPER FOR USE IN DUPLICATING MACHINES. LEE PAPER COMPANY, Vicksburg, Mich.
Filed August 23, 1938. Serial No. 409,882. PUBLISHED MAY 16, 1939. Class 37.

369,410. KNITTED, NETTED, AND TEXTILE PIECE GOODS, MANUFACTURED OF SILK, WOOL, COTTON, RAYON, AND OF A MIXTURE OF ANY OR ALL OF SUCH MATERIALS. THE LAMPL SPORTSWEAR MANUFACTURING COMPANY, Cleveland, Ohio.
Filed August 29, 1938. Serial No. 410,124. PUBLISHED MAY 16, 1939. Class 42.

369,411. PAPER TABLE CLOTHS AND NAPKINS SOLD SEPARATELY AND AS UNITS. AMERICAN TISSUE MILLS, Holyoke, Mass.
Filed September 13, 1938. Serial No. 410,496. PUBLISHED JANUARY 24, 1939. Class 37.

369,412. PULL WHEEL TOYS. PAUL E. ALLEN, Niles Center, Ill.
Filed September 26, 1938. Serial No. 410,982. PUBLISHED MAY 16, 1939. Class 22.

369,413. INSTRUMENTS AND CONTROLS RESPONSIVE TO TEMPERATURE—NAMELY, ELECTROTHERMOSTATIC GAS VALVES, ETC. WHITE-RODGERS ELECTRIC COMPANY, St. Louis, Mo.
Filed September 29, 1938. Serial No. 411,111. PUBLISHED MAY 16, 1939. Class 26.

369,414. PRODUCT TO BE USED AS AN INGREDIENT FOR LACQUERS AND PAINTS. JACQUES WOLF & Co., Clifton, N. J.
Filed September 29, 1938. Serial No. 411,112. PUBLISHED MAY 16, 1939. Class 16.

369,415. THERMOPLASTIC SYNTHETIC RESIN MATERIAL IN THE FORM OF SLABS, GRANULES, OR POWDER. AUSTENAL LABORATORIES, INC., New York, N. Y.
Filed October 1, 1938. Serial No. 411,147. PUBLISHED NOVEMBER 22, 1938. Class 1.

369,416. CIRCULAR SAWS AND SAW TABLES. DELTA MANUFACTURING COMPANY, Milwaukee, Wis.
Filed October 10, 1938. Serial No. 411,448. PUBLISHED MAY 9, 1939. Class 23.

369,417. ALL MANNER AND KINDS OF BARBERS' RAZORS AND SHEARS. BRESDUCK, INC., New York, N. Y.
Filed October 14, 1938. Serial No. 411,616. PUBLISHED MAY 16, 1939. Class 23.

369,418. MIRRORS. SCHRENK & COMPANY, Hoboken, N. J.
Filed October 18, 1938. Serial No. 411,755. PUBLISHED MAY 9, 1939. Class 32.

369,419. COOKIES. J. S. IVINS' SON, INC., Philadelphia, Pa.
Filed October 21, 1938. Serial No. 411,869. PUBLISHED MAY 16, 1939. Class 46.

369,420. PACKAGE OF SMALL ARTICLES, SUCH AS CANDY, PAPER HATS, TOY BALLOONS, CAKES, PAPER TABLE CLOTHS AND NAPKINS; SAID GOODS BEING SOLD AS A UNIT AND BEING APPROPRIATE FOR USE AT SOCIAL PARTIES—TO WIT, AT GROUPS OF PERSONS GATHERED TOGETHER TO PARTICIPATE IN SOME FORM OF AMUSEMENT OR ENTERTAINMENT. THE PARTY MART, INC., New York, N. Y.
Filed November 4, 1938. Serial No. 412,388. PUBLISHED MAY 16, 1939. Class 50.

369,421. ELECTRIC INCANDESCENT LAMPS. WARREN LAMP COMPANY, Warren, Pa.
Filed November 8, 1938. Serial No. 412,532. PUBLISHED MAY 16, 1939. Class 21.

369,422. FROZEN CONFECTIONS, NUT TOPPINGS, AND CHOCOLATE COATINGS. JOE LOWE CORPORATION, New York, N. Y.
Filed November 12, 1938. Serial No. 412,648. PUBLISHED FEBRUARY 14, 1939. Class 46.

369,423. ASBESTOS TEXTILES, COMPRISING ASBESTOS THREAD, ASBESTOS YARN, ASBESTOS FLAT THREAD TAPES ADAPTED FOR USE IN WEAVING CLOTH, AND USED IN CLOTHES MANUFACTURE. KEASBEY & MATTISON COMPANY, Ambler, Pa.
Filed November 18, 1938. Serial No. 412,909. PUBLISHED APRIL 25, 1939. Class 43.

369,424. POTATOES IN THEIR NATURAL STATE. MAINE POTATO GROWERS, INC., Presque Isle, Maine.
Filed November 26, 1938. Serial No. 413,196. PUBLISHED FEBRUARY 14, 1939. Class 46.

369,425. RAW AND PARTLY PREPARED CASEIN USED IN THE INDUSTRIAL ARTS. THE NEW ZEALAND CO-OPERATIVE DAIRY COMPANY LIMITED, Hamilton, Auckland, New Zealand.
Filed November 28, 1938. Serial No. 413,233. PUBLISHED MAY 16, 1939. Class 1.

369,426. BEVERAGE COOLERS SOLD IN TRADE EMPTY. PEPSI-COLA COMPANY, Long Island City, N. Y.
Filed November 28, 1938. Serial No. 413,237. PUBLISHED MAY 16, 1939. Class 31.

369,427. CRYSTALLIZED CITRUS FRUIT CANDY, HONEY, KUMQUAT SYRUP, AND FRUIT CAKE. C. S. TAYLOR & Co., Davenport, Fla.
Filed November 28, 1938. Serial No. 413,250. PUBLISHED MAY 16, 1939. Class 46.

369,428. WHISKEY, GIN, RUM, BRANDY, AND ALCOHOLIC CORDIALS. JOSEPH S. FINCH AND COMPANY, New York, N. Y., and Schenley, Pa.
Filed December 8, 1938. Serial No. 413,579. PUBLISHED MAY 16, 1939. Class 49.

369,429. ELECTRIC RANGES AND PARTS THEREFOR. STEWART-WARNER CORPORATION, Chicago, Ill.
Filed December 9, 1938. Serial No. 413,652. PUBLISHED MAY 9, 1939. Class 21.

369,430. MILK, BUTTERMILK, AND OTHER CULTURED MILKS, CREAM, SOUR CREAM, CHOCOLATE MILK, CHEESE AND CHEESE FOODS, ICE CREAM, ICE CREAM NOVELTIES, ICES AND SHERBETS, AND EGGS. SEALTEST, INC., Baltimore, Md., and New York, N. Y.
Filed December 10, 1938. Serial No. 413,687. PUBLISHED MAY 16, 1939. Class 46.

369,431. MACHINES FOR FORMING LABELS FROM STRIP MATERIAL. WILLCOX & GIBBS SEWING MACHINE COMPANY, New York, N. Y.
Filed December 10, 1938. Serial No. 413,693. PUBLISHED MAY 16, 1939. Class 23.

369,432. DEVICES FOR CONTROLLING OR MODIFYING ELECTRICAL CURRENTS, INCLUDING ALTERNATING CURRENT RECTIFYING SYSTEMS, AMPLIFIERS, ARC LENGTH MONITORS, AUTOMATIC SELF-REGULATING BATTERY CHARGERS, CHOKES, INDUCTION HEATING CURRENT SOURCES, NEON SIGN CONTROLLERS, TRANSFORMERS, VIBRATORY FEEDER CONTROLLERS, AND VOLTAGE REGULATORS. RAYTHEON MANUFACTURING COMPANY, Newton, Mass.
Filed December 12, 1938. Serial No. 413,736. PUBLISHED MAY 9, 1939. Class 21.

369,433. CHEESE FLAVORING FOR BAKED GOODS. THE BORDEN COMPANY, New York, N. Y.
Filed December 16, 1938. Serial No. 413,892. PUBLISHED MARCH 14, 1939. Class 46.

369,434. FLASHLIGHTS. SALZ BROTHERS, INC., New York, N. Y.
Filed December 16, 1938. Serial No. 413,913. PUBLISHED MAY 9, 1939. Class 21.

369,435. USED BAGS AND SACKS LAUNDERED AND BLEACHED IN THE NATURE OF WASTE BAGGING ADAPTABLE FOR USE IN MAKING TOWELS, WIPING CLOTHS, DUST CLOTHS, DIAPERS, GARMENT COVERS, BED SHEETS, PILLOW CASES, CLOTHING, HANDKERCHIEFS, AND LIKE ARTICLES. CHARLES SCHWARTZ & Co., Chicago, Ill.
Filed December 21, 1938. Serial No. 414,083. PUBLISHED MAY 16, 1939. Class 1.

369,436. PUNCH BOARDS. CHESTER A. JONES, Ottumwa, Iowa.
Filed December 27, 1938. Serial No. 414,225. PUBLISHED MAY 16, 1939. Class 22.

369,437. INSULATING PRESERVATIVE AND NONCORROSIVE PAINT FOR VARIOUS INDUSTRIAL ARTS. WESTERN RAILROAD SUPPLY COMPANY, Chicago, Ill.
Filed December 30, 1938. Serial No. 414,385. PUBLISHED MAY 16, 1939. Class 16.

369,438. MAGNETIC TOOL FOR USE BY HAIR DRESSERS IN THE REMOVAL OF HAIR PINS FROM THE HAIR. CENTURY HAIR DRYER CO., New York, N. Y.
Filed December 31, 1938. Serial No. 414,394. PUBLISHED MAY 16, 1939. Class 21.

369,439. SPARK PLUGS, LOW TENSION FUSES, RESISTANCES, SWITCHES, AND CABLE SOCKETS. ALBERT RUPRECHT, doing business as Beru-Werk, Ludwigsburg, Germany.
Filed January 3, 1939. Serial No. 414,431. PUBLISHED MAY 16, 1939. Class 21.

369,440. FABRICS IN THE PIECE OF WORSTED, FLANNEL, COTTON, SILK, RAYON, WOOL, LINEN, AND/OR COMBINATIONS THEREOF. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y.
Filed January 4, 1939. Serial No. 414,500. PUBLISHED MAY 16, 1939. Class 42.

369,441. FEEDS FOR CARNIVOROUS, HERBIVOROUS, AND OMNIVOROUS ANIMALS, PARTICULARLY FEEDS FOR CATTLE, POULTRY, SWINE, CALVES, DOGS, SHEEP, FOXES, RABBITS, AND GOATS; FLOUR, PARTICULARLY WHEAT FLOUR; AND COTTONSEED MEAL AND SOYBEAN MEAL. GENERAL MILLS, INC., Minneapolis, Minn.
Filed January 6, 1939. Serial No. 414,561. PUBLISHED MAY 16, 1939. Class 46.

369,442. PULVERIZED CLAYS. INTERNATIONAL PULVERIZING COMPANY, Moorestown, N. J.
Filed January 6, 1939. Serial No. 414,566. PUBLISHED MAY 16, 1939. Class 1.

369,443. INSURANCE POLICY VENDING MACHINES. ROBERT E. CARTER, Chicago, Ill.
Filed January 6, 1939. Serial No. 414,611. PUBLISHED MAY 9, 1939. Class 26.

369,444. LEAD PENCILS. WILLIAMS MANUFACTURING COMPANY, Nashville, Tenn.
Filed January 14, 1939. Serial No. 414,850. PUBLISHED MAY 16, 1939. Class 37.

369,445. TIRES AND TUBES. THE GLOBE OIL & REFINING COMPANY, Wichita, Kans.
Filed January 16, 1939. Serial No. 414,877. PUBLISHED MAY 16, 1939. Class 35.

369,446. CARD GAMES. WALTER M. COLEMAN, Woodlawn, Md.
Filed January 17, 1939. Serial No. 414,913. PUBLISHED MAY 16, 1939. Class 22.

369,447. MACHINERY SHAFT BEARINGS AND JOURNAL BEARINGS THEREFOR. FEDERAL MOGUL CORPORATION, Detroit, Mich.
Filed January 19, 1939. Serial No. 414,990. PUBLISHED MAY 16, 1939. Class 23.

369,448. POLISH AND CLEANER FOR FURNITURE, FINISHED SURFACES OF WOODWORK, PAINTED AND ENAMELED SURFACES, AND LIKE FINISHED SURFACES. RALPH E. INSON, New York, N. Y.
Filed January 20, 1939. Serial No. 415,041. PUBLISHED MAY 16, 1939. Class 16.

369,449. TOSSING-UP TOYS. TRAC TRAC NOVELTY CO., New York, N. Y.
Filed January 21, 1939. Serial No. 415,092. PUBLISHED FEBRUARY 28, 1939. Class 22.

369,450. INTERCOMMUNICATING SOUND AMPLIFYING AND TRANSMITTING SYSTEMS AND PARTS THEREOF, COMPRISING SPEAKERS, AMPLIFIERS, MICROPHONES, INTERCONNECTING CIRCUITS, AND ENERGIZING DEVICES WHEREBY CONVERSATION AT EITHER POINT MAY BE HEARD AT THE OTHER POINT OF COMMUNICATION. WEBSTER ELECTRIC COMPANY, Racine, Wis.
Filed January 21, 1939. Serial No. 415,094. PUBLISHED MAY 16, 1939. Class 21.

369,451. ELECTRIC FENCE CONTROLLER APPARATUS. THE SPARKS-WITHINGTON COMPANY, Jackson, Mich.
Filed January 25, 1939. Serial No. 415,232. PUBLISHED MAY 9, 1939. Class 21.

369,452. ROTARY ROD WEEDERS. CHENEY WEEDER COMPANY, Cheney, Wash.
Filed January 28, 1939. Serial No. 415,324. PUBLISHED MAY 9, 1939. Class 23.

369,453. STRAWBERRY, RASPBERRY, BUTTERSCOTCH, CARAMEL, PINEAPPLE, AND CHOCOLATE SYRUP FOR FLAVORING ICE CREAM, PUDDINGS, CAKE, AND FOR USE AS A TOPPING. THE TOPIT COMPANY, Los Angeles, Calif.
Filed January 27, 1939. Serial No. 415,312. PUBLISHED MAY 16, 1939. Class 46.

369,454. RUBBER COVERED THREAD. SEA ISLAND THREAD MFG. CORP., New York, N. Y.
Filed January 26, 1939. Serial No. 415,265. PUBLISHED MAY 9, 1939. Class 43.

369,455. TELEGRAPH KEYS. MARTIN MANUFACTURING AND RESEARCH CORP., New York, N. Y.
Filed January 26, 1939. Serial No. 415,254. PUBLISHED MAY 16, 1939. Class 21.

369,456. PORK SAUSAGES. F. G. VOGT & SONS, INCORPORATED, Philadelphia, Pa.
Filed January 28, 1939. Serial No. 415,364. PUBLISHED MAY 9, 1939. Class 46.

369,457. POWER LAWN MOWERS. JACOBSEN MANUFACTURING COMPANY, Racine, Wis.
Filed January 30, 1939. Serial No. 415,394. PUBLISHED MAY 16, 1939. Class 23.

369,458. ELECTRIC WAFFLE IRONS. MANNING, BOWMAN & Co., Meriden, Conn.
Filed January 30, 1939. Serial No. 415,406. PUBLISHED MAY 9, 1939. Class 21.

369,459. LACES; EMBROIDERIES IN THE PIECE, CONSISTING OF RAYON, COTTON, AND SYNTHETIC WOOL AND SILK YARN OR MIXTURES THEREOF. SAMUEL EHRMAN CO. INC., New York, N. Y.
Filed February 1, 1939. Serial No. 415,435. PUBLISHED MAY 16, 1939. Class 42.

369,460. LEATHER, SKINS UNWROUGHT AND WROUGHT. CONNOLLY BROTHERS (CURRIERS) LIMITED, London, England.
Filed January 31, 1939. Serial No. 415,444. PUBLISHED MAY 16, 1939. Class 1.

369,461. ELECTRIC TRANSFORMERS AND STATIONARY INDUCTION APPARATUS. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed January 31, 1939. Serial No. 415,452. PUBLISHED MAY 9, 1939. Class 21.

369,462. POLYVINYL ACETAL RESINS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 1, 1939. Serial No. 415,473. PUBLISHED APRIL 18, 1939. Class 1.

369,463. STATIONARY INDUCTION APPARATUS—NAMELY, ELECTRIC TRANSFORMERS. GENERAL ELECTRIC COMPANY, Schenectady, N. Y.
Filed January 31, 1939. Serial No. 415,450. PUBLISHED MAY 9, 1939. Class 21.

369,464. PRINTING ROLLERS. THE DAYTON RUBBER MANUFACTURING COMPANY, Dayton, Ohio.
Filed February 1, 1939. Serial No. 415,472. PUBLISHED MAY 16, 1939. Class 23.

369,465. CHICKEN CHOW MEIN. DIPLOMAT PRODUCTS, INC., New York, N. Y.
Filed February 4, 1939. Serial No. 415,584. PUBLISHED MAY 9, 1939. Class 46.

369,466. PASTEURIZED CHEESE FOOD MIXTURE OF PROCESSED AMERICAN CHEESE, CREAM, DRIED SKIM MILK, AND VEGETABLE COLORING. THE BORDEN COMPANY, New York, N. Y.
Filed February 6, 1939. Serial No. 415,631. PUBLISHED MAY 16, 1939. Class 46.

369,467. ELASTIC THREAD. DRITZ-TRAUM COMPANY, INC., New York, N. Y.
Filed February 7, 1939. Serial No. 415,707. PUBLISHED MAY 9, 1939. Class 43.

369,468. NONMETALLIC TIRES AND RUBBER INNER TUBES. ISADORE SPEVACK, doing business as The Rayecraft Tire and Rubber Company, Brooklyn, N. Y.
Filed February 7, 1939. Serial No. 415,748. PUBLISHED MAY 16, 1939. Class 35.

369,469. RADIO TESTING UNITS, RADIO TESTING INSTRUMENTS, AND RADIO MEASURING INSTRUMENTS. SERVICE INSTRUMENTS INC., New York, N. Y.
Filed February 8, 1939. Serial No. 415,799. PUBLISHED MAY 9, 1939. Class 26.

369,470. CANDY. GEORGES-GEORGE DE MET & BROS., INC., Chicago, Ill.
Filed February 13, 1939. Serial No. 415,984. PUBLISHED MAY 16, 1939. Class 46.

369,471. BARBACUE TABLE EXTRACT FOR FLAVORING MEATS, FISH, AND FOWL. JOHN A. HERRMANN, doing business as Hot Diggitty Products, Chicago, Ill.
Filed February 13, 1939. Serial No. 415,985. PUBLISHED MAY 16, 1939. Class 46.

369,472. INSULATED ELECTRIC WIRES AND CABLES. ROCKBESTOS PRODUCTS CORPORATION, New Haven, Conn.
Filed February 13, 1939. Serial No. 415,999. PUBLISHED MAY 16, 1939. Class 21.

369,473. SHORTENING, AND SALAD AND COOKING OILS MADE FROM COTTONSEED. TRINITY COTTON OIL CO., Dallas, Tex.
Filed February 14, 1939. Serial No. 416,021. PUBLISHED MAY 16, 1939. Class 46.

369,474. FRUIT TREES, PARTICULARLY PEACH TREES. RALPH RAYMOND EMLONG, doing business as Emlong's Nursery, Stevensville, Mich.
Filed February 15, 1939. Serial No. 416,060. PUBLISHED MAY 16, 1939. Class 1.

369,475. WHISKEY. TOM WALKER, INC., Pittsburgh and Glenfield, Pa.
Filed February 16, 1939. Serial No. 416,126. PUBLISHED MAY 16, 1939. Class 49.

369,476. SCOTCH WHISKY. WILLIAM GREER & CO. LIMITED, Glasgow, Scotland.
Filed February 18, 1939. Serial No. 416,186. PUBLISHED MAY 16, 1939. Class 49.

369,477. BASE BLOCKS MADE OF GREEN ONYX USED FOR LAMPS, DESK PEN SUPPORTS, BOOK ENDS, AND OTHER SIMILAR ORNAMENTS. A. C. WALTER & COMPANY, New York, N. Y.
Filed February 18, 1939. Serial No. 416,219. PUBLISHED MAY 16, 1939. Class 1.

369,478. DRILLS, JIGS, BORING JIGS, FORM TOOLS, DIES AND FIXTURES, MILLING FIXTURES, CUTTERS, END MILLS, MILL SETS, COUNTERBORES, REAMERS, SHANK ARBORS, AND ARBORS. C. H. GEMMILL, doing business as C. H. Gemmill Company, Chicago, Ill.
Filed February 16, 1939. Serial No. 416,221. PUBLISHED MAY 9, 1939. Class 23.

369,479. THREAD AND YARN. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed February 18, 1939. Serial No. 416,228. PUBLISHED APRIL 25, 1939. Class 43.

369,480. HOT ROLLED, COLD ROLLED, GALVANIZED, AND STAINLESS STEEL STRIP. ACME STEEL COMPANY, Chicago, Ill.
Filed February 20, 1939. Serial No. 416,236. PUBLISHED MAY 9, 1939. Class 14.

369,481. WINDOW SHADE CLOTH IN THE PIECE. THE COLUMBIA MILLS, INC., New York, N. Y.
Filed February 20, 1939. Serial No. 416,248. PUBLISHED MAY 16, 1939. Class 42.

369,482. WOOLEN YARNS. H. ERNST & CIE, Aarwangen, Switzerland.
Filed February 20, 1939. Serial No. 416,252. PUBLISHED APRIL 25, 1939. Class 43.

369,483. THREADS, YARNS, AND NOVELTY YARNS COMPOSED OF WORSTED, WOOL, COTTON, SILK, RAYON, OR A COMBINATION OF SUCH TEXTURES. THE NATIONAL SILK COMPANY, INC., South Coventry, Conn.
Filed February 20, 1939. Serial No. 416,263. PUBLISHED MAY 9, 1939. Class 43.

369,484. WHEAT, RICE, AND CORN IN A PUFFED OR FLAKED FORM. JAMES S. REX, Media, Pa.
Filed February 28, 1939. Serial No. 416,518. PUBLISHED MAY 16, 1939. Class 46.

369,485. CAPS OR CLOSURES. ANCHOR CAP & CLOSURE CORPORATION, Long Island City, N. Y.
Filed February 25, 1939. Serial No. 416,395. PUBLISHED MAY 16, 1939. Class 50.

369,486. STEEL DIES USED IN DROP FORGING AND ANALOGOUS MACHINES FOR FORGING OR STAMPING METAL PRODUCTS. A. FINKL & SONS COMPANY, Chicago, Ill.
Filed February 25, 1939. Serial No. 416,409. PUBLISHED MAY 16, 1939. Class 23.

369,487. YARN. REGENT BRAID AND TRIMMING CO. INC., New York, N. Y.
Filed February 25, 1939. Serial No. 416,438. PUBLISHED MAY 9, 1939. Class 43.

369,488. WOODEN TOYS AND GAMES EMPLOYING WOODEN PARTS. YOUNG THINGS, Pasadena, Calif.
Filed February 28, 1939. Serial No. 416,528. PUBLISHED MAY 16, 1939. Class 22.

369,489. VEHICLE SEAT SLIP COVERS. BEMIS BRO. BAG COMPANY, St. Louis, Mo.
Filed March 1, 1939. Serial No. 416,537. PUBLISHED MAY 16, 1939. Class 19.

369,490. TOILET SOAPS, SOAP PASTES, SOAP POWDERS, SOAP CREAMS, AND LIQUID SOAPS. PARFUMERIE ROGER ET GALLET, SOCIÉTÉ ANONYME, Paris, France.
Filed March 1, 1939. Serial No. 416,581. PUBLISHED MAY 9, 1939. Class 4.

369,491. PIECE GOODS OF COTTON, RAYON, AND COMBINATIONS THEREOF, USED IN THE MANUFACTURE OF LADIES' DRESSES AND BLOUSES. UTILITY DRESS CO., New York, N. Y.
Filed March 3, 1939. Serial No. 416,664. PUBLISHED MAY 16, 1939. Class 42.

369,492. CENTRIFUGAL TYPE DUST COLLECTORS FOR AIR CONDITIONING. STURTEVANT MILL COMPANY, Boston, Mass.
Filed March 4, 1939. Serial No. 416,710. PUBLISHED MAY 16, 1939. Class 34.

369,493. AEROPLANE PROPELLERS. FREEDMAN-BURNHAM ENGINEERING CORPORATION, Cincinnati, Ohio.
Filed March 8, 1939. Serial No. 416,798. PUBLISHED MAY 16, 1939. Class 19.

369,494. EGGS. INDEPENDENT FOOD PRODUCTS CO. INC., Newark, N. J.
Filed March 8, 1939. Serial No. 416,800. PUBLISHED MAY 16, 1939. Class 46.

369,495. FRESH CITRUS FRUITS. J. C. CONNELL, doing business as Rio Grande Citrus Distributors, Alamo, Tex.
Filed March 9, 1939. Serial No. 416,843. PUBLISHED MAY 16, 1939. Class 46.

369,496. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS AND EXTRACTS USED IN MAKING SAME. HIGH ROCK GINGER ALE COMPANY, Baltimore, Md.
Filed March 9, 1939. Serial No. 416,851. PUBLISHED MAY 16, 1939. Class 45.

369,497. NONALCOHOLIC MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND EXTRACTS USED IN MAKING SAME. HIGH ROCK GINGER ALE COMPANY, Baltimore, Md.
Filed March 9, 1939. Serial No. 416,852. PUBLISHED MAY 16, 1939. Class 45.

369,498. FINISHED TEXTILE FABRICS IN THE PIECE, INCLUDING BROADCLOTH AND OTHER FABRICS COMPOSED IN WHOLE OR IN PART OF COTTON. MOUNT HOPE FINISHING COMPANY, Dighton, Mass.
Filed March 9, 1939. Serial No. 416,864. PUBLISHED MAY 16, 1939. Class 42.

369,499. TEXTILE FABRICS IN THE PIECE INCLUDING BROADCLOTH AND OTHER FABRICS COMPOSED IN WHOLE OR IN PART OF COTTON. MOUNT HOPE FINISHING COMPANY, Dighton, Mass.
Filed March 9, 1939. Serial No. 416,865. PUBLISHED MAY 16, 1939. Class 42.

369,500. NON-FERROUS METAL ALLOY AND WELDING RODS MADE OF THE SAME FOR PROVIDING METAL OBJECTS WITH A HARD, WEAR-RESISTANT AND NON-CORROSIVE FACING OR SURFACE. VANADIUM-ALLOYS STEEL COMPANY, Latrobe, Pa.
Filed March 9, 1939. Serial No. 416,882. PUBLISHED MAY 16, 1939. Class 14.

369,501. HOSE NOZZLES. AMERICAN-LAFRANCE-FOAMITE CORPORATION, Elmira, N. Y.
Filed March 11, 1939. Serial No. 416,939. PUBLISHED MAY 16, 1939. Class 13.

369,502. ADHESIVE MEDICATED SHIELDS, PADS, OR PLASTERS FOR CORNS, CALLOUSES, AND BUNIONS. THE SCHOLL MFG. CO., INC., Chicago, Ill.
Filed March 11, 1939. Serial No. 416,968. PUBLISHED MAY 9, 1939. Class 6.

369,503. COMPOUND FOR POLISHING AND RETARDING THE TARNISHING OF SILVER. WELMAID MANUFACTURING CORPORATION, Chicago, Ill.
Filed March 11, 1939. Serial No. 416,978. PUBLISHED MAY 16, 1939. Class 4.

369,504. FRESH VEGETABLES. ASSOCIATED GROWERS OF BROWNSVILLE, Brownsville, Tex.
Filed March 13, 1939. Serial No. 416,986. PUBLISHED MAY 16, 1939. Class 46.

369,505. TOILET SEATS CONSTRUCTED OF WOOD, PLYWOOD, COMPOSITION MATERIAL, OR COMPOSITIONS THEREOF. AUTOKRAFT BOX CORPORATION, Hanover, Pa.
Filed March 14, 1939. Serial No. 417,048. PUBLISHED MAY 16, 1939. Class 13.

369,506. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS, EXTRACTS, AND FLAVORS USED IN MAKING THE SAME. THE YORKE BEVERAGES, INC., Yonkers, N. Y.
Filed March 14, 1939. Serial No. 417,074. PUBLISHED MAY 16, 1939. Class 45.

369,507. GRAPE JUICE AND GRAPE JUICE CONCENTRATES. NATIONAL GRAPE CORPORATION, Brocton, N. Y.
Filed March 15, 1939. Serial No. 417,097. PUBLISHED MAY 16, 1939. Class 45.

369,508. GRAPE JUICE AND GRAPE JUICE CONCENTRATES. NATIONAL GRAPE CORPORATION, Brocton, N. Y.
Filed March 15, 1939. Serial No. 417,098. PUBLISHED MAY 16, 1939. Class 45.

369,509. YARNS FOR ART NEEDLEWORK. FLEISHER YARNS, INC., New York, N. Y.
Filed March 16, 1939. Serial No. 417,125. PUBLISHED MAY 16, 1939. Class 43.

369,510. DRY AND READY MIXED PAINTS, PAINT ENAMELS, STAINS, LACQUERS, AND VARNISHES. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed March 16, 1939. Serial No. 417,137. PUBLISHED MAY 16, 1939. Class 16.

369,511. DRY AND READY MIXED PAINTS, PAINT ENAMELS, STAINS, LACQUERS, AND VARNISHES. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio.
Filed March 16, 1939. Serial No. 417,138. PUBLISHED MAY 16, 1939. Class 16.

369,512. CENTRIFUGAL BLOWER WHEELS. THE TORRINGTON MANUFACTURING COMPANY, Torrington, Conn.
Filed March 16, 1939. Serial No. 417,147. PUBLISHED MAY 16, 1939. Class 34.

369,513. MATTRESSES AND BOX SPRINGS. SEALY, INCORPORATED, Pittsburgh, Pa.
Filed March 17, 1939. Serial No. 417,185. PUBLISHED MAY 16, 1939. Class 32.

369,514. DRY AND READY MIXED PAINTS, PAINT ENAMELS, STAINS, LACQUERS, AND VARNISHES. THE H. B. DAVIS CO., doing business as Maryland Paint Company, Baltimore, Md.
Filed March 18, 1939. Serial No. 417,204. PUBLISHED MAY 16, 1939. Class 16.

369,515. CUTTING TORCHES. MODERN ENGINEERING COMPANY, INC., St. Louis, Mo.
Filed March 18, 1939. Serial No. 417,227. PUBLISHED MAY 16, 1939. Class 34.

369,516. ELECTRIC SCORE PROJECTOR. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill.
Filed March 20, 1939. Serial No. 417,256. PUBLISHED MAY 16, 1939. Class 21.

369,517. REEDS FOR CLARINETS AND OTHER MUSICAL INSTRUMENTS. CHICAGO MUSICAL INSTRUMENT COMPANY, Chicago, Ill.
Filed March 20, 1939. Serial No. 417,263. PUBLISHED MAY 16, 1939. Class 36.

369,518. ELECTRIC LIGHTING PLANT. R. A. LISTER & COMPANY LIMITED, Dursley, England.
Filed March 20, 1939. Serial No. 417,286. PUBLISHED MAY 16, 1939. Class 21.

369,519. DOG FOOD. THE ZANOL PRODUCTS CO., Cincinnati, Ohio.
Filed March 20, 1939. Serial No. 417,317. PUBLISHED MAY 9, 1939. Class 46.

369,520. SHAVING CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed March 21, 1939. Serial No. 417,328. PUBLISHED MAY 16, 1939. Class 4.

369,521. COMPOSITE AIRCRAFT PROPELLERS, PROPELLER BLADES, AND PROPELLER HUBS. ENGINEERING AND RESEARCH CORPORATION, Riverdale, Md.
Filed March 21, 1939. Serial No. 417,333. PUBLISHED MAY 16, 1939. Class 19.

369,522. METAL—NAMELY, OXIDIZED ALUMINUM IN STRIP FORM. MONARCH METAL WEATHERSTRIP CORPORATION, St. Louis, Mo.
Filed March 22, 1939. Serial No. 417,382. PUBLISHED MAY 16, 1939. Class 14.

369,523. AUTOMOBILE POLISH AND GLAZE. BENNETT CHEMICAL COMPANY, Cambridge, Md.
Filed March 23,1939. Serial No. 417,395. PUBLISHED MAY 16, 1939. Class 16.

369,524. LOCOMOTIVES AND PARTICULARLY DIESEL-POWERED LOCOMOTIVES. THE FATE-ROOT-HEATH COMPANY, Plymouth, Ohio.
Filed March 23, 1939. Serial No. 417,403. PUBLISHED MAY 16, 1939. Class 23.

369,525. DOG FOOD. NESTRA PACKING COMPANY, Berkley, Mich.
Filed March 23, 1939. Serial No. 417,412. PUBLISHED MAY 16, 1939. Class 46.

369,526. FERROUS METAL CASTINGS. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed March 25, 1939. Serial No. 417,509. PUBLISHED MAY 16, 1939. Class 14.

369,527. SHOE SOAP. HECKER PRODUCTS CORPORATION, New York, N. Y.
Filed March 29, 1939. Serial No. 417,616. PUBLISHED MAY 16, 1939. Class 4.

369,528. REFRIGERATORS. GIBSON ELECTRIC REFRIGERATOR CORPORATION, Greenville, Mich.
Filed March 31, 1939. Serial No. 417,684. PUBLISHED MAY 16, 1939. Class 31.

369,529. GOLF BALLS. THE FISK RUBBER CORPORATION, Chicopee Falls, Mass.
Filed April 6, 1939. Serial No. 417,908. PUBLISHED MAY 16, 1939. Class 22.

369,530. REFRIGERATING APPARATUS SUCH AS REFRIGERATORS, REFRIGERATING MACHINES, REFRIGERATING UNITS, AND PARTS THEREOF. GENERAL REFRIGERATION CORPORATION, South Beloit, Ill.
Filed April 8, 1939. Serial No. 418,003. PUBLISHED MAY 16, 1939. Class 31.

369,531. RUBBER TIRES. ATLAS SUPPLY COMPANY, Newark, N. J.
Filed April 10, 1939. Serial No. 418,030. PUBLISHED MAY 16, 1939. Class 35.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]
THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

369,532. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BIG LION, INCORPORATED, also doing business as Home Life Food Products Co., Hartford, Conn. Filed May 21, 1937. Serial No. 392,959.

"CREAMY WHIP"

For Ice Cream.
Claims use since May 8, 1937.

369,533. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed Apr. 1, 1938. Serial No. 404,769.

DARTMOOR SIDES

For Leather.
Claims use since Jan. 7, 1938.

369,534. (CLASS 2. RECEPTACLES.) BERKOWITZ ENVELOPE COMPANY, Kansas City, Mo. Filed Apr. 28, 1938. Serial No. 405,804.

FLAT TIN CAN

For Merchandise Envelopes.
Claims use since Mar. 15, 1938.

369,535. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) FEDERAL RESEARCH PRODUCTS, INC., New York, N. Y. Filed May 9, 1938. Serial No. 406,125.

Protect With
ANTIFLAME

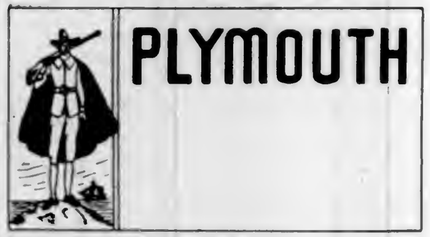
For Flame-Proofing Compound in Solid, Liquid, or Powdered Form for Fire-Proofing Fabrics, Fibrous Materials, and Cellulose Materials.
Claims use since January 1935.

369,536. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PROFESSIONAL LABORATORIES, INC., Bloomfield, N. J. Filed June 23, 1938. Serial No. 407,816.

TRI-VITAMIN

For Preparations Indicated in the Treatment of Constipation.
Claims use since May 25, 1938.

369,537. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) PLYMOUTH WHOLESALE DRY GOODS CORPORATION, New York, N. Y. Filed June 28, 1938. Serial No. 407,991.



For Razor Blades.
Claims use since Feb. 21, 1938.

369,538. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) UNITED STATES RUBBER PRODUCTS, INC., New York, N. Y., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey. Filed June 30, 1938. Serial No. 408,078.

Weatherproofed

For Pneumatic Tires for Vehicles.
Claims use since Jan. 13, 1938.

369,539. (CLASS 2. RECEPTACLES.) MENASHA PRODUCTS COMPANY, Menasha, Wis. Filed July 18, 1938. Serial No. 408,615.

Pak-View MENASHA

For Paper Cartons.
Claims use since Mar. 18, 1938.

369,540. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRIFFITH LABORATORIES, INC., Chicago, Ill. Filed July 20, 1938. Serial No. 408,704.

PRAGUE POWDER
Makes
"READY TO EAT HAM"

For Salt Composition for Use in Curing Meats and Like Animal Products.
Claims use since June 2, 1938.

369,541. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE GRIFFITH LABORATORIES, INC., Chicago, Ill. Filed July 20, 1938. Serial No. 408,705.

PRAGUE POWDER
Makes
"RICH RIPE FLAVOR"

For Salt Composition for Use in Curing Meats and Like Animal Products.
Claims use since June 2, 1938.

369,542. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) BRADLEY MANUFACTURING CO., Chicago, Ill. Filed Oct. 10, 1938. Serial No. 411,445.

Forme de Verre

For Lamp Shades.
Claims use since 1934.

369,543. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) JAMES B. BEAM DISTILLING CO., INCORPORATED, Clermont, Ky. Filed Nov. 17, 1938. Serial No. 412,849.



For Whiskey.
Claims use since May 21, 1938.

369,544. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio. Filed Jan. 11, 1939. Serial No. 414,698.

WEJTITE

For Single Roll Crusher for Crushing Coal, Burnt Lime, Gypsum, Alum Cake, Rock Salt, and Similar Materials, and Teeth Therefor.
Claims use since Aug. 20, 1937.

369,545. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) EAGLE ELECTRIC MFG. CO. INC., Brooklyn, N. Y. Filed Jan. 23, 1939. Serial No. 415,110.

NITE-BEAM

For Electric Lamp.
Claims use since June 1, 1938.

369,546. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) EATON MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 28, 1939. Serial No. 415,330.

KOOK-WELL

For Combination Steel Cooking Utensil for Roasting, Stewing, Baking, and Frying Foods.
Claims use since Apr. 19, 1938.

369,547. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) BUTTS MANUFACTURING CO., Los Angeles, Calif. Filed Mar. 14, 1939. Serial No. 417,050.

SATIN PINE

For Curtain and Fabric Stretchers, Quilting Frames, Rug Frames, and Knock Down Frames.
Claims use since June 4, 1935.

369,548. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) THE GLIDDEN COMPANY, Cleveland, Ohio. Filed Apr. 6, 1939. Serial No. 417,913.

TIME-TESTED

For Ready Mixed Paints, Paste Paints, Colors in Oil, Paint Enamels, Transparent Lacquers, Pigmented Lacquers, Varnishes, Varnish Enamels, Paint, Varnish, Enamel, and Lacquer Thinners, Primers, Paint, Varnish, Enamel, and Lacquer Driers, Stains, Kalsomine, Paint Fillers, and Polishes for Automobiles and Furniture.
Claims use since Feb. 10, 1937.

369,549. (CLASS 27. HOROLOGICAL INSTRUMENTS.) L. A. SCHWOB, doing business as Geneva Watch Co., New York, N. Y. Filed Apr. 25, 1939. Serial No. 418,693.

GENEVA WATCH Co

For Watches and Watch Movements.
Claims use since Aug. 28, 1937.

369,550. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed May 2, 1939. Serial No. 418,995.

Gibson's

For Tooth Paste.
Claims use since Jan. 2, 1937.

369,551. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. E. STALEY MANUFACTURING COMPANY, Decatur, Ill. Filed May 15, 1939. Serial No. 419,454.

Staley's

A.E. STALEY MFG. CO.
DECATUR. ILL.
U. S. A.

For Laundry Starch.
Claims use since 1912.

369,552. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) THE BARRE GRANITE ASSOCIATION, INC., Barre, Vt. Filed May 18, 1939. Serial No. 419,544.

BARRE GUILD

For Granite Monuments and Memorials.
Claims use since Oct. 30, 1936.

369,553. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) LANKENAU CO., New York, N. Y. Filed May 23, 1939. Serial No. 419,723.

HY-LAN PLAID

For Silk, Synthetic Crepe, Rayon, Woolen, and Worsted Piece Goods.
Claims use since Jan. 4, 1938.

369,554. (CLASS 47. WINES.) JOSEPH PERRIER FILS & CIE., Chalons sur Marne, France. Filed May 26, 1939. Serial No. 419,874.

Joseph Perrier fils & Cie

For Champagne Wine.
Claims use since January, 1825.

369,555. (CLASS 27. HOROLOGICAL INSTRUMENTS.) LATHAM WATCH CO., INC., New York, N. Y. Filed June 15, 1939. Serial No. 420,534.

LATHAM

For Watches and Watch Movements.
Claims use since May, 1937.

TRADE-MARK REGISTRATIONS RENEWED

125,924. **NYSIS.** TALCUM POWDER. Registered July 15, 1919. THE AGRA COMPANY. Renewed July 15, 1939, to Nyal Company, Detroit, Mich., a corporation of Michigan, assignee.

126,275. **FF.** CERTAIN NAMED DENTAL, MEDICAL, AND SURGICAL APPLIANCES. Registered August 19, 1919. FAWCETT & FAWCETT. Renewed August 19, 1939, to Fawcett & Fawcett, Inc., Brooklyn, N. Y., a corporation of New York, assignee.

126,920. **A BOTTLE AND GLASS, ETC.** A MEDICINAL REMEDY FOR THE TREATMENT OF INDIGESTION. Registered October 14, 1919. BELL & COMPANY, INC., Orangeburg, N. Y., a corporation of New Jersey. Renewed October 14, 1939.

126,923. **GOOD HUMOR.** CANDY. Registered October 14, 1919. HARRY B. BURT, Youngstown, Ohio. Renewed October 14, 1939, to Good Humor Corporation of America, Brooklyn, N. Y., a corporation of Ohio, assignee by mesne assignments.

126,941. **PRESTOLOG.** CERTAIN NAMED MEASURING AND SCIENTIFIC APPLIANCES. Registered October 14, 1919. HENRY KEMPENICH, Portland, Oreg. Renewed October 14, 1939, to Henry Kempenich, Palo Alto, Calif.

126,974. **A WHITE BIRD, ETC.** AUTOMOBILES. Registered October 14, 1919. THE WHITE MOTOR COMPANY, Cleveland, Ohio, a corporation of Ohio. Renewed October 14, 1939.

127,151. **UMECO.** NUT-MARGARIN AND OLEOMARGARIN. Registered October 21, 1919. UNION MEAT COMPANY, Portland and North Portland, Oreg. Renewed October 21, 1939, to Swift and Company, Chicago, Ill., a corporation of Illinois, assignee.

127,225. **TEXSHED.** WATERPROOF TEXTILE FABRICS. Registered October 28, 1919. EASTERN FINISHING WORKS, INC., Kenyon, R. I. Renewed October 28, 1939, to William L. Barrell Company, Inc., New York, N. Y., a corporation of Maine, assignee.

127,495. **POIDOMETER.** MATERIAL-HANDLING MACHINERY FOR RECEIVING, CONDUCTING, AND CONVEYING MATERIALS. Registered November 11, 1919. THE SCHAFFER ENGINEERING & EQUIPMENT CO., Tiffin, Ohio. Renewed November 11, 1939, to Schaffer Poidometer Company, Pittsburgh, Pa., a corporation of Pennsylvania, assignee.

127,803. **ABBOTT.** CERTAIN NAMED DRUGS, CHEMICALS, AND PHARMACEUTICAL PREPARATIONS. Registered December 9, 1919. THE ABBOTT LABORATORIES, Chicago, Ill. Renewed December 9, 1939, to Abbott Laboratories, North Chicago, Ill., a corporation of Illinois.

127,916. **DIXIE.** BOTTLE-CAPPING MACHINES, BOTTLE-FILLING MACHINES, AND BOTTLE FILLING AND CAPPING MACHINES. Registered December 16, 1919. THE CROWN CORK AND SEAL COMPANY OF BALTIMORE CITY. Renewed December 16, 1939, to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York, assignee.

127,917. **CROMPTON.** VELVETEENS. Registered December 16, 1919. CROMPTON COMPANY. Renewed December 16, 1939, to Crompton Company, Crompton, R. I., a corporation of Delaware, assignee.

127,979. **AN OX-TEAM, ETC.** COTTON PIECE GOODS. Registered December 16, 1919. PACIFIC MILLS, Lawrence and Boston, Mass. Renewed December 16, 1939, to Pacific Mills, Boston, Mass., a corporation of Massachusetts.

128,020. **VARCRAFT.** ENAMEL PAINTS, READY-MIXED PAINTS, COLORS IN OIL, COLORS IN JAPAN, VARNISHES, JAPANS, WOOD-STAINS, AND LIQUID SHELLACS. Registered December 23, 1919. FRANK H. BROWN. Renewed December 23, 1939, to Varcraft Works, Incorporated, Pottstown, Pa., a corporation of Pennsylvania, assignee.

128,211. **ALL PACK.** FRUIT-JAR RUBBERS. Registered December 23, 1919. ACME RUBBER MANUFACTURING COMPANY, Trenton, N. J., a corporation of New Jersey. Renewed December 23, 1939.

LABELS
REGISTERED JULY 25, 1939

53,305.—*Title:* BA-KET. For a Game. BA-KET INC., Chicago, Ill. Published May 2, 1938.

53,306.—*Title:* WINDSOR HALL. For Furniture. MAX BARNETT FURNITURE CO., INC., New Orleans, La. Published March 31, 1939.

53,307.—*Title:* TRUE VALUE. For Insulation. BAWDEN BROTHERS INC., Davenport, Iowa. Published March 1, 1939.

53,308.—*Title:* THIN GILLETTE BLADE. For Blades. GILLETTE SAFETY RAZOR COMPANY, Boston, Mass. Published September 26, 1938.

53,309.—*Title:* MEAD'S CEREAL ENRICHED WITH MINERAL AND VITAMIN CONTAINING FOODS. For a Palatable Mixed Cereal Food, Vitamin and Mineral Enriched, Composed of Wheatmeal (Farina), Oatmeal, Yellow Cornmeal, Wheat Embryo, Powdered Beef Bone Specially Prepared for Human Use, Dried Yeast, Powdered Dehydrated Alfalfa Leaf, and Iron Salt. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 10, 1939.

53,310.—*Title:* MISS U. S. A. PURS-PAK HUMAN HAIR NETS. For Hair Nets. H. A. LOEB & Co., Chicago, Ill. Published October 3, 1938.

53,311.—*Title:* ZANTOX. For Tablets for the Relief of Flatulence, Digestive Distress, and Biliary Disturbances. CHARLES B. MAURER, doing business as Maurer Laboratories, Chicago, Ill. Published May 20, 1939.

53,312.—*Title:* MILLER'S BARK TREATMENT. For a Bark Treatment for Trees. WELTY MILLER, Fairchance, Pa. Published May 2, 1939.

53,313.—*Title:* REAPES SHAMPOO TO REMOVE LOOSE DANDRUFF SCALES. For Shampoo. JOHN E. REAPE, doing business as John E. Reape Company, Youngstown, Ohio. Published June 15, 1939.

53,314.—*Title:* WAMPOLE'S PREPARATION. For a Tonic and Stimulant. HENRY K. WAMPOLE & CO., INCORPORATED, Philadelphia, Pa. Published May 18, 1939.

PRINTS

REGISTERED JULY 25, 1939

17,517.—*Title:* TAKE YOUR CHOICE. For Beer. FALLS CITY BREWING COMPANY, INC., Louisville, Ky. Published March 9, 1939.

17,518.—*Title:* THE PARKER DEBUTANTE NOW MAKES ITS FORMAL BOW. For Fountain Pens, Mechanical Pencils, and Ink. THE PARKER PEN COMPANY, Janesville, Wis. Published June 24, 1939.

17,519.—*Title:* HANDY ANN. For Dish Cloths. PUTNAM KNITTING CO., Cohoes, N. Y. Published May 5, 1939.

17,520.—*Title:* NUSTILE STEERING WHEEL COVER. For Automobile Steering Wheel Covers. S. ROSEN MFG. CO. INC., Utica, N. Y. Published June 5, 1939.

REISSUES

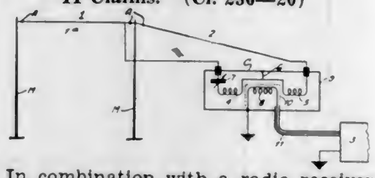
JULY 25, 1939

21,157
ANTENNA SYSTEM

Johan Willem Alexander and Herre Rinia, Eindhoven, Netherlands, assignors to Radio Corporation of America, a corporation of Delaware

Original No. 2,054,645, dated September 15, 1936, Serial No. 595,644, February 27, 1932. Application for reissue July 29, 1938, Serial No. 221,890. In Germany February 18, 1931

11 Claims. (Cl. 250—20)



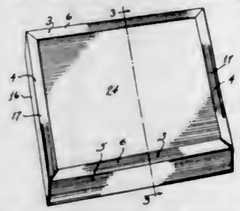
11. In combination with a radio receiver and a pair of antenna of different lengths, a transformer, said antennae being connected to the opposite terminals of the primary winding of said transformer, the receiver input terminals being connected to the transformer secondary winding, separate capacities to ground from said opposite terminals, and means for adjusting the magnitude of one of the capacities thereby to control the location of the electrical midpoint of the primary winding.

21,158
COLLAPSIBLE CARTON

William P. Frankenstein, Cincinnati, Ohio

Original No. 2,116,513, dated May 10, 1938, Serial No. 63,758, February 13, 1936. Application for reissue August 3, 1938, Serial No. 222,931

10 Claims. (Cl. 229—34)



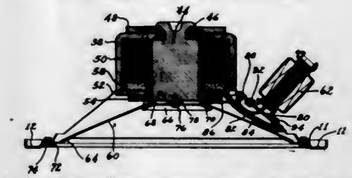
1. A carton made from a single sheet blank of card or paperboard material, comprising, a rectangular panel forming the bottom of the carton, extensions respectively from each side of the rectangular panel, each extension subdivided into sections by parallel scored lines, along which the sections are folded for erecting the same into a hollow wall of spaced inner and outer wall sections, an intermediate wall section joining said inner and outer wall sections, and a flap section joining with the inner wall section for overlying the bottom panel, the flaps for two opposed side walls of the carton permanently secured to the bottom panel and the flaps for the end walls respectively folded to overlie the bottom panel and provide a spacer for the inner and outer wall sections, the inner wall sections for the two opposed end walls of the carton of lesser longitudinal dimensions than their relative outer wall sections, and the intermediate connecting wall section thereof having their opposite ends cut on a bias.

21,159
ACOUSTIC DEVICE

Rodger J. Emmert, Birmingham, Mich., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Original No. 2,010,537, dated August 6, 1935, Serial No. 494,646, November 10, 1930. Application for reissue August 14, 1936, Serial No. 96,126

2 Claims. (Cl. 179—115.5)



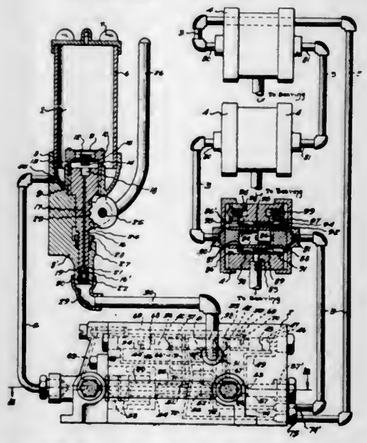
1. A loudspeaker comprising a diaphragm, a magnet structure including a cup-shaped magnet member, a supporting member for supporting the peripheral edge of the diaphragm, said supporting member including an annular portion positioned adjacent the peripheral edge of said diaphragm and a plurality of arms integral with said annular portion, upturned portions at the free ends of said arms, means for securing said upturned portions to said cup-shaped member, a transformer supporting member, and a plurality of lugs on two of said arm portions for supporting said transformer supporting member.

21,160
REVERSIBLE LUBRICATING FEEDER SYSTEM

David R. Hillis, Detroit, Mich., assignor, by mesne assignments, to Trabon Engineering Corporation, Cleveland, Ohio, a corporation of Ohio

Original No. 2,094,271, dated September 28, 1937, Serial No. 523,149, March 16, 1931. Application for reissue July 5, 1938, Serial No. 217,590

71 Claims. (Cl. 184—7)



1. The combination of a plurality of bearings to be lubricated, a series of feeders, one adjacent

each of said bearings, a pipe line connecting each of said feeders and adapted at each end to receive lubricant under pressure, each of said feeders supplying a measured quantity of lubricant to its associated bearing and uncovering a passage to the continuation of the pipe line when the lubricant is forced therethrough in either direction of flow.

52. A fluid-distributing device comprising a body having an inlet port for receiving fluid under pressure and a pair of dual-service ports for discharging fluid to and for receiving fluid from a fluid-conveying circuit and automatically operated means for alternately directing lubricant from said device to the circuit first in one direction of flow and then in the other direction of flow.

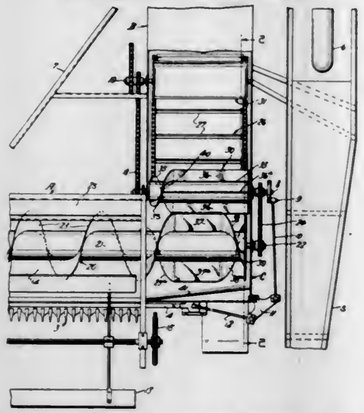
21,161

COMBINE

Alfred Korsmo, Hopkins, and Martin Ronning, St. Louis Park, Minn., assignors to Minneapolis-Moline Power Implement Company, Minneapolis, Minn., a corporation of Delaware

Original No. 2,155,423, dated April 25, 1939, Serial No. 180,780, December 20, 1937. Application for reissue April 29, 1939, Serial No. 270,898

13 Claims. (Cl. 198—104)



1. In a combine, a conveyor device for transferring grain from the cutter to the separator conveyor comprising, a feed screw for initially conveying the grain from the cutter and having a helical vane leading toward the said separator conveyor, the said vane terminating first in a straight beater blade in alignment with the transverse central portion of the separator conveyor and then in a reversely turned helical vane extended to the extremity of the screw, and another beater blade located oppositely to the first mentioned blade and terminating in reversely turned and oppositely extending helical vanes extended along the feed screw.

21,162

REBOUND CHECK FOR GOLF CLUB SHAFTS

Allan E. Lard, Washington, D. C.

Original No. 2,078,728, dated April 27, 1937, Serial No. 113,510, November 30, 1936. Application for reissue September 15, 1938, Serial No. 230,164

14 Claims. (Cl. 273—80)

1. In a golf club, a tubular steel golf shaft, a split member inserted in said shaft, and a rubber bumper coacting with said member to resist the piston-like movement of said member thereby acting to check the rebounds of said golf shaft in play, said split member being provided with a



recess expansible in width under flexion of said member and flexed backwardly to receive said rubber bumper.

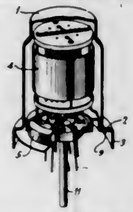
21,163

STEM FOR ELECTRON DISCHARGE DEVICES

George M. Rose, Jr., East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Original No. 2,066,856, dated January 5, 1937, Serial No. 66,231, February 28, 1936. Application for reissue October 8, 1937, Serial No. 168,029

9 Claims. (Cl. 250—27.5)



1. A stem for electron discharge devices, comprising two spaced concentric metal cylinders integrally joined at their ends by a transverse section to form a ring U-shaped in cross section, an annular flange extending radially outward from one rim of the outer cylinder of the ring, a vitreous disc closing the opening defined by the inner cylinder of the ring, and lead-in conductors sealed gas tight through said disc.

21,164

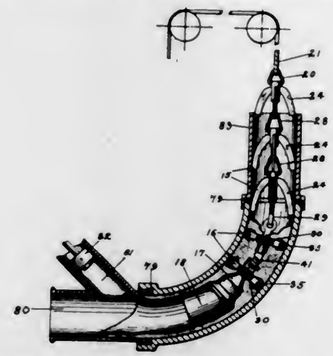
APPARATUS FOR LINING PIPES WITH CEMENTITIOUS MATERIAL

William Taren Tate, Manchester, England

Original No. 1,951,221, dated March 13, 1934, Serial No. 605,021, April 13, 1932. Application for reissue December 6, 1938, Serial No. 245,231. In Australia July 23, 1931

10 Claims. (Cl. 25—38)

5. An apparatus for lining pipes in situ with plastic material including a spreader whose maximum cross section is of the same size and configuration as the required finished bore of the pipe when lined comprising an elongated conical nose, a flaring hollow skirt secured to the base of the nose having a plurality of dehydrating openings therein intermediate the nose and the trailing end of the skirt, a hub on the end of said nose, a universal joint connection on said hub, a plurality of guide arms radiating outwardly from the hub intermediate the nose and universal joint



connection and extending rearwardly over the said nose, a chain of guides in axial alignment universally coupled together having a universal joint connection complementary to said universal connection on the hub adapted to couple the chain of guides and spreader together and a hauling cable attached to the foremost guide in the chain.

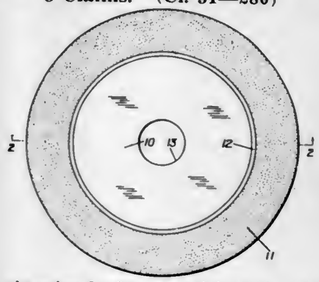
21,165

ABRASIVE WHEEL

Edward Van der Pyl, Holden, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Original No. 2,072,051, dated February 23, 1937, Serial No. 35,881, August 12, 1935. Application for reissue April 28, 1938, Serial No. 204,906

5 Claims. (Cl. 51—280)



1. An abrasive body comprising diamond grain and a copper nickel bond.

PATENTS

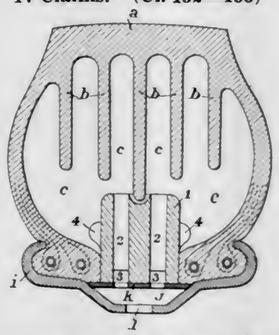
GRANTED JULY 25, 1939

2,166,927

MEANS FOR COOLING MULTICELLULAR RUBBER TIRES

Jules Brunswick, Paris, France, assignor to Maurice Baudou, Rene Baudou, both of Les Eglisottes, Gironde, France, and himself

Application March 12, 1936, Serial No. 68,471
In France March 14, 1935
17 Claims. (Cl. 152—153)



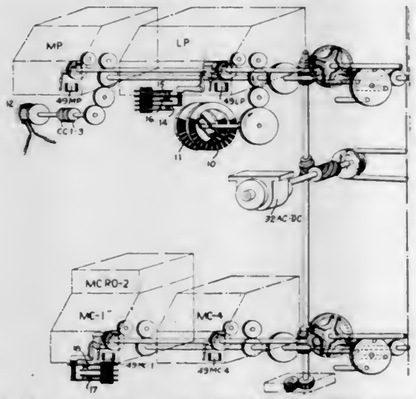
1. In combination, a wheel rim having a longitudinal channel formed therein and holes extending through said rim so as to connect said channel with the outside, a cellular rubber tire, provided with a longitudinal conduit, adapted to fit on said rim, and at least one rubber block adapted to fit in said conduit and provided with passages extending throughout said block so as to connect directly and separately the cells of the tire with the space under said block, which communicates with said channel.

2,166,928

MULTIPLYING MACHINE

James W. Bryce, Bloomfield, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York

Application May 10, 1934, Serial No. 724,921
21 Claims. (Cl. 235—61.6)



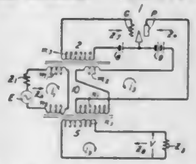
1. An accounting machine for effecting multiplying computations comprising a plurality of multiplicand entry receiving devices, means for effecting the entry of a multiplicand in certain ones of said devices, means under control of one of said certain devices for effecting the entry of a multiple of said multiplicand as contained in said one device into others of said devices to set up therein various multiples of the multiplicand, a multiplier entry receiving device, product receiving means and means under the control of said multiplier entry receiving device for entering into the product receiving means the multiplicand or multiples thereof derived from said multiplicand entry receiving devices which multiples are selected according to the digits of the multiplier.

2,166,929

ELECTRIC WAVE AMPLIFYING SYSTEM

Robert S. Caruthers, Jackson Heights, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 5, 1936, Serial No. 114,409
15 Claims. (Cl. 179—171)



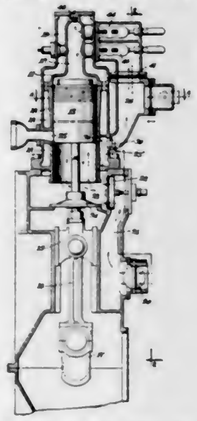
7. A wave amplifying system having means for producing shunt feedback to the input of the system proportional to current flowing in the load impedance and series feedback to the input of the system proportional to the voltage across the load impedance.

2,166,930

INTERNAL COMBUSTION ENGINE

Hewitt A. Gehres, Mount Vernon, Ohio, assignor to Cooper-Bessemer Corporation, Mount Vernon, Ohio, a corporation of Ohio

Application June 3, 1937, Serial No. 146,185
9 Claims. (Cl. 123—65)



2. In a two stroke cycle internal combustion

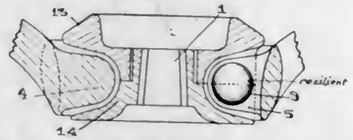
engine, an explosion chamber with a reciprocating piston therein, means including an intake port adjacent one end of the chamber for introducing air under pressure, means for concurrently discharging products of combustion from the chamber, including an exhaust port adjacent said end but spaced from said intake port, said ports being closed by the piston except when the piston is adjacent its extreme position at said end, means for introducing gas or a rich gas mixture into a zone adjacent the other end of the chamber when the piston is adjacent the first named end of the chamber, means for then also introducing a gas mixture highly favorable to combustion into a second zone adjacent said first named zone in the chamber, and ignition means located in said second zone and actuated when the piston has compressed the gas and gas mixtures in said zones.

2,166,931

SHOCK-ABSORBING STEERING WHEEL FOR AUTOMOBILES

William Wilson Hamill, Chigwell, England

Application October 9, 1936, Serial No. 104,743. Renewed December 24, 1938. In Great Britain October 17, 1935
7 Claims. (Cl. 74—552)



1. Shock-absorbing steering wheel for automobiles comprising a steering column member made in two sections, screw means for holding together said sections, a steering wheel hub member surrounding said column member, arms projecting inwards from the bore of the hub member, arms projecting outwards from the column member and arranged in alternate relation to the arms of the hub member, cavities in the side faces of the wheel hub arms, complementary cavities in the side faces of the column member arms formed partly in one of the sections and partly in the other section of the column member, rubber or like bodies seated in said cavities and subjected to initial compression by said screw means to constitute the connection and allow a limited relative movement between the members.

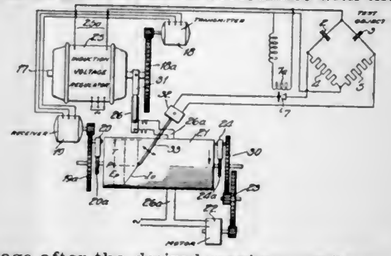
2,166,932

METHOD AND SYSTEM FOR TESTING HIGH VOLTAGE INSULATION

Georg Keinath, Berlin-Charlottenburg, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

Application March 16, 1936, Serial No. 69,104
In Germany March 15, 1935
7 Claims. (Cl. 234—5.5)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)

7. In a system for testing high voltage insulation, a test voltage source, means for steadily increasing said voltage within prescribed limits, a circuit arrangement containing the high voltage insulation to be tested and adapted to produce values depending upon the loss factor of the insulation to be tested, a coordinate recorder having a movable recording surface and a recording mechanism connected to said circuit arrangement and responsive to said produced values to record said values on said surface, means for moving said surface transversely to the recording motions of said mechanism first linearly in accordance with the increase of said test voltage to the desired maximum value of said voltage to produce a graph on said surface recording different produced values in accordance with the test voltage variations, means for arresting the operating means of said surface in accordance with the test



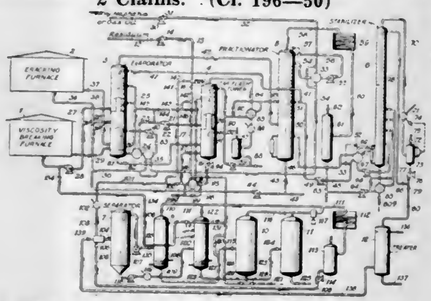
voltage after the desired maximum voltage value is attained, and outside means, controlled by the arresting of said first-mentioned surface operating means, for continuing the operation of said surface for a prescribed time period, with the maximum test voltage effective upon said recording mechanism, to produce a continuous graph on said surface recording the loss factor character during the varying voltage test and at maximum test voltage in accordance with time.

2,166,933

CONVERTING HYDROCARBON OILS

Frederick W. Sullivan, Jr., Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana

Application February 11, 1935, Serial No. 5,993
2 Claims. (Cl. 196—50)



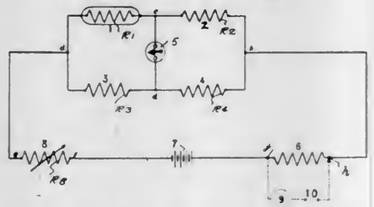
1. The process of producing gasoline from the unvaporizable residual fractions of crude petroleum, comprising heating said crude petroleum residue to a temperature between 875–925° F. by passage through a pipe heater at high velocity, discharging the heated oil into an evaporating zone at lower pressure where gasoline and gas oil are removed from unevaporated heavy residue, separating said gasoline and gas oil in a suitable fractionating zone, heating said gas oil in a separate pipe heater to a temperature between 915–1050° F., introducing the vapors from said gas oil heater into said evaporating zone, cooling said unevaporated heavy residue and subjecting it to the solvent action of propane whereby valuable high molecular weight high boiling hydrocarbons are dissolved and undesirable coke forming asphaltic matter is rejected, introducing the resulting propane solution into contact with hot vapors within said evaporating zone whereby propane is removed and said high boiling hydrocarbons are

heated, and withdrawing and recycling said heated high boiling hydrocarbons to said viscosity breaking heater.

2,166,934
PHTHALIC ACID ESTERS
John B. Tuttle, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application May 2, 1935, Serial No. 19,507
1 Claim. (Cl. 260—475)

Method of preparing ester products adapted to be used as plasticizers for pyroxylin, enamels, lacquers and the like, which comprises oxidizing paraffin wax with air at about 140–200° C. for about ½ to 6 hours in the presence of an oxidation catalyst, separating the oxidized products from the unoxidized hydrocarbons, subjecting the oxidized products to hydrogenation at about 150–200° C. and about 50–300 atmospheres for ½ to 5 hours in the presence of a hydrogenation catalyst, esterifying the resulting product consisting largely of high molecular weight aliphatic alcohols with a dibasic acid selected from the group consisting of phthalic acid and anhydride and separating from the resulting esterified product a fraction having a boiling range of about 250–300° C.

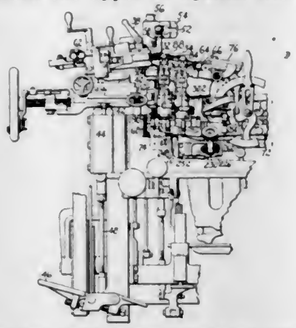
2,166,935
TEMPERATURE CHANGE COMPENSATION APPARATUS
Hurl R. Adams, Pittsburgh, Pa.
Application August 8, 1936, Serial No. 94,946
8 Claims. (Cl. 171—95)



6. In a system for establishing and obtaining current of a desired value in an electrical circuit subject to changes in its characteristics, a series-parallel connected group of resistances, a current source therefor, an indicator means connected across said group for indicating a desired current provided by a desired proportioned relationship of said resistances at a given ambient temperature, and means connected to said group, said last-mentioned means being constructed and arranged to provide current of a desired value for a given temperature while the proper conditions therefor are determined by said indicator.

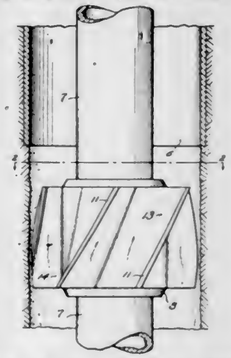
2,166,936
MACHINE FOR SHAPING UPPERS OVER LASTS
Earl A. Bessom, Meadville, Pa., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application August 23, 1938, Serial No. 226,317
23 Claims. (Cl. 12—7)

10. In a machine for shaping uppers over lasts, a gripper comprising a pair of upper-engaging jaws, manually operated means for closing the jaws on the upper, moving the gripper heightwise of the upper to stretch the upper over a last and moving the gripper widthwise of the upper to work the upper in against the periph-



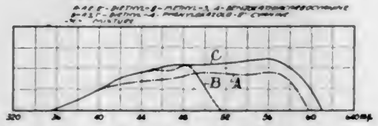
ery of the last, and power-operated means for opening the gripper.

2,166,937
DRILL-PIPE BUFFER
William I. Bettis, Los Angeles, Calif., assignor to Estelle B. Kleaver, Burburbank, Calif.
Application February 4, 1938, Serial No. 188,682
8 Claims. (Cl. 255—28)



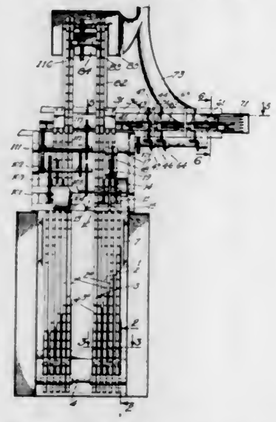
1. A device of the character described, comprising; an annulus adapted for mounting upon a co-axial drill pipe, and having quasi-helical vanes extending outwardly from its periphery; said vanes being curved rearwardly with respect to the intended direction of rotation when the device is so mounted, and being adapted to impel circulating fluid upwardly when the device is rotated within a co-axial cylindrical bore which it fits with small clearance.

2,166,938
PHOTOGRAPHIC EMULSION
Burt H. Carroll, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 29, 1937, Serial No. 133,589
13 Claims. (Cl. 95—7)



1. A photographic silver halide emulsion containing a supersensitizing combination of at least one sensitizing pseudocyanine dye with at least one sensitizing carbocyanine dye selected from the group consisting of 8-alkyloxathiacarbocyanine dyes, 8-alkyloxaselenacarbocyanine dyes, 8-alkyl-3,4-benzoxathiacarbocyanine dyes, 8-alkyl-3,4-benzoxaselenacarbocyanine dyes, 8-alkyl-3',4'-benzoxathiacarbocyanine dyes and 8-alkyl-3,4,3',4'-dibenzoxathiacarbocyanine dyes.

2,166,939
FISH CUTTING AND CLEANING MACHINE
Andrew L. Christiansen, Willowbrook, Calif.
Application April 1, 1935, Serial No. 14,052
16 Claims. (Cl. 17—3)

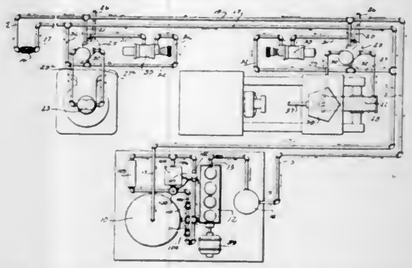


1. In a machine of the class described, a conveyor for carrying fish transversely, a pair of spaced knives at the outer sides thereof for cutting off the head and tail ends from the entrail sections of the fish, a knife adapted to ride lengthwise upon the entrail sections for splitting lengthwise the belly walls only of the entrail sections, the depth of the knife cut being fixed and limited by the surface of the fish upon which the knife rides, means for spreading the side walls of said sections, and means for forcing the entrails therefrom.

3. In a machine of the class described, a conveyor for carrying fish transversely, a pair of spaced knives at the outer sides thereof for cutting off the head and tail ends from the middle sections of the fish, a narrow pocket conveyor mounted below one end of and at right angles to the first conveyor, means for receiving the middle sections from the first conveyor and laying the same on their backs in the pockets of the pocket conveyor, a knife for splitting lengthwise the bellies of said sections while in said pockets, means for spreading the side walls of said sections, and means for forcing the entrails therefrom.

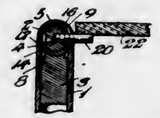
2,166,940
HYDRAULIC POWER SYSTEM
Conrad M. Conradson, Detroit, Mich.
Application March 12, 1930, Serial No. 435,210
Renewed September 29, 1938
20 Claims. (Cl. 60—52)

20. In a motor operating hydraulic system, the combination with a motor having motor supply and exhaust ducts, of a pump for circulating power liquid through said system, adapted to maintain the supply duct under pressure in excess of motor requirements, a flow regulating control means interposed in the exhaust duct of the motor, said control means comprising an orifice of predetermined size, and pressure regu-



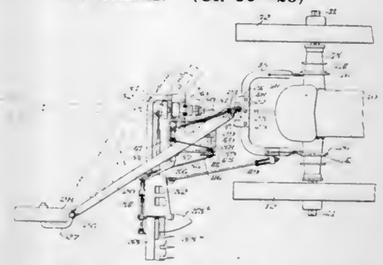
lating means for maintaining a predetermined pressure drop through said orifice.

2,166,941
KNOCK-DOWN FURNITURE FRAME
Elbert A. Corbin, Jr., Lansdowne, Pa., assignor to William C. Biddle, Lansdowne, Pa.
Application December 15, 1937, Serial No. 179,899
1 Claim. (Cl. 311—1)



In a knock-down furniture frame formed of separable pipe sections, means for detachably securing said pipe sections comprising a dowel fastened in the end of one pipe section and projecting into an adjacent pipe section, and a pin for securing said dowel to said last mentioned pipe section, said pin extending horizontally inwardly of the vertical plane of the adjacent pipe sections and constituting a support for a table top.

2,166,942
TRACTOR MOWER
Charles F. Crumb and Samuel E. Hilblom, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application June 19, 1937, Serial No. 149,170
20 Claims. (Cl. 56—25)



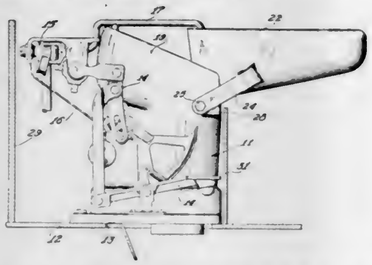
1. In a tractor mower in which the tractor includes a drawbar, the combination with the drawbar of a mower comprising a frame and cutting mechanism carried thereby, said frame being pivotally supported on and connected to the drawbar at a single point of connection for pivotal movement about both a horizontal and a vertical axis, said axes substantially intersecting, and means for normally holding the cutting mechanism in operative position.

2,166,943
ROOF CONSTRUCTION
Robert L. Davison, New York, N. Y., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application December 8, 1937, Serial No. 178,670
10 Claims. (Cl. 108—1)



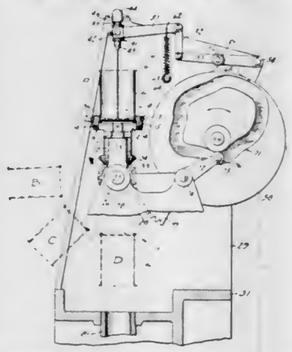
1. A roof construction comprising panel rafters extending solidly from substantially the ceiling plane to substantially the roofing plane or planes, and panel bridging extending substantially vertically between said panel rafters.

2,166,944
WATER CLOSET
Sven Duner, Wheaton, Ill., assignor to Duner Co., Chicago, Ill., a corporation of Illinois
Application March 1, 1937, Serial No. 128,456
3 Claims. (Cl. 4—76)



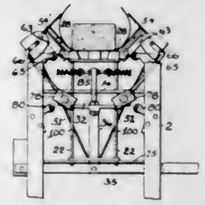
1. A water closet, comprising a stand portion including a bowl, a receiving hopper pivotally mounted on said stand portion for movement between operative and inoperative positions, and flushing mechanism rigidly mounted upon said stand portion and adapted to flush the contents of said receiving hopper into said bowl when said hopper is in operative position.

2,166,945
CAN-COATING MACHINE
Felix Eberhart, Arlington, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application October 24, 1934, Serial No. 749,832
15 Claims. (Cl. 91—18)



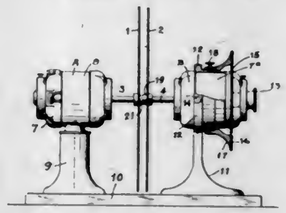
15. A can coating machine having in combination, a holder for a can to be coated interiorly, means for swinging said holder downward and upward, means for rotating said holder, means for depositing a liquid coating material into the bottom of a can, and a cam for delaying the swinging movement of the can while it contains liquid coating material and while the rotary movement of the holder and can is maintained, said cam having means for actuating said depositing means.

2,166,946
WRAPPING MACHINE
Charles M. Eberling, Cleveland, Ohio
Application September 17, 1937, Serial No. 164,300
12 Claims. (Cl. 93—2)



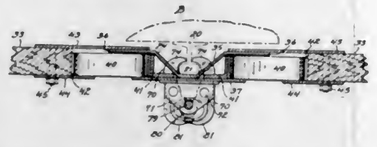
1. In a semi-automatic wrapping machine a stationary frame, a shiftable frame vertically slidably mounted within said first frame, supporting and wrapping mechanism carried by and secured to said shiftable frame, creasing and bottom folding members vertically slidably mounted in said shiftable frame, means on said stationary frame for actuating said supporting and wrapping mechanism when said shiftable frame is moved downwardly in said stationary frame, and means on said stationary frame for arresting vertical downward movement of said creasing and bottom folding members when said shiftable frame is in predetermined position and moved further downwardly.

2,166,947
SECTOR DISK OPERATING MECHANISM
Neuman H. Fayerweather, Cleveland, Ohio, assignor to Frober Faybor Company, Cleveland, Ohio, a corporation of Ohio
Application March 4, 1937, Serial No. 129,044
7 Claims. (Cl. 88—61)



1. Apparatus for varying the quantity of transmitted light and comprising, a pair of rotatable members each having an aperture, said members being so arranged that their apertures will traverse the same light beam during rotation of the members, a pair of synchronous motors operating in synchronism with each other arranged each to positively drive one of said members, and means providing for timing adjustment of one of said members to vary their net aperture while said members are driven, by relative displacement between the fields of said motors.

2,166,948
MECHANISM FOR HOLDING DEMOUNTABLE BODIES ON VEHICLES
Benjamin F. Fitch, Greenwich, Conn., assignor to Motor Terminals, Inc., Cleveland, Ohio, a corporation of Ohio
Application July 18, 1935, Serial No. 32,029
31 Claims. (Cl. 105—366)



1. The combination of a vehicle having upwardly facing open ended channels, a demountable freight container having downwardly facing rails having enlarged heads adapted to register with the bottom of said channels, said channels having openings through both side walls and locking devices arranged to project through the openings in the walls thereof and coact with the body rails, said locking devices comprising a pair of hook members arranged to hook over the edges of the heads of said rails and manually operable means including a cam for operating said locking devices.

2,166,949
SULPHONATED ARYLIDES
Lawrence H. Flett, Hamburg, N. Y., assignor to National Aniline and Chemical Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application April 13, 1937, Serial No. 136,601
15 Claims. (Cl. 260—404)

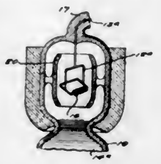
1. The sulphonation product of an arylide of a fatty acid containing at least 5 carbon atoms, said arylide containing a substituent in the aryl nucleus ortho to the acylamino radical selected from the group consisting of halogen and the alkyl, aryl, alkoxy, aryloxy, carboxyl and esterified carboxyl radicals.

2,166,950
GAME APPLIANCE AND METHOD OF MAKING
Frank O. German and Earle W. Hartley, Waterbury, Conn.
Application September 15, 1937, Serial No. 164,044
3 Claims. (Cl. 273—82)



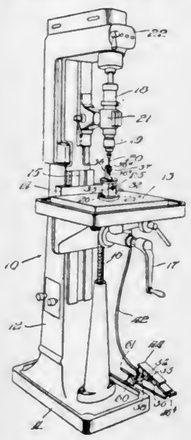
1. A bowling pin comprising a multi-part outer shell having the configuration of a bowling pin, radially disposed longitudinal ribs carried by each part, each of said longitudinal ribs having a reduced inner portion and a transverse rib intersecting said longitudinal ribs at a point intermediate the ends of said latter ribs, said longitudinal and transverse ribs having a composition similar to the composition of said outer shell, and the longitudinal rib of one part overlapping a longitudinal rib of another part.

2,166,951
DISCHARGE DEVICE
Edmund Germer, Berlin, Germany, assignor of eighty-seven and one-half per cent to Ulrich W. Doering and Hans Joachim Spanner, both of Berlin, Germany
Application January 25, 1936, Serial No. 60,774
In Germany July 1, 1929
5 Claims. (Cl. 176—122)



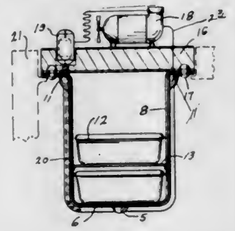
1. An electrical discharge device of the type which comprises a container having electrode chambers and a principal luminous portion between the electrode chambers, electrodes at least one of which is a fixed solid electrode spaced from the walls of its electrode chamber, and a filling in said container adapted to carry the discharge comprising a vapor condensable at ordinary room temperatures, which device is characterized by means adapted to deflect away from the container wall gases which tend to pass from the electrode chamber into the principal luminous part of the container and to turn them back toward the electrode chamber and thus to confine mainly within the electrode chamber the convection currents which pass over the electrode.

2,166,952
NUT TAPPING MACHINE
Herman Goldberg, Chicago, Ill.
Application September 28, 1936, Serial No. 102,839
11 Claims. (Cl. 10—105)



1. The combination with the work table of a machine tool, of a cylinder adapted to be removably mounted on said table, a piston in said cylinder, a work support carried by said piston, means for admitting compressed gaseous fluid to said cylinder to effect an upward stroke of said piston, said piston and said work support being adapted to move downwardly by gravity after said upward stroke, and means for regulating the rate of exhaust of said fluid from said cylinder during the downward stroke of said piston.

2,166,953
SHEET-METAL EVAPORATOR
Delos P. Heath, Detroit, Mich., assignor, by mesne assignments, to General Motors Corporation, a corporation of Delaware
Application April 9, 1931, Serial No. 528,847
8 Claims. (Cl. 62—126)



4. An evaporator for a refrigerating machine comprising complementary sheet metal portions at least one of which portions has an indentation formed therein providing a header, a plurality of refrigerant circulatory passages formed between said sheet metal portions and having their one ends communicating with said header below a normal liquid level to be maintained therein, the other ends of said passages being in open communication with each other at a point remote from said header, and means for discharging incoming liquid refrigerant to said evaporator into only a predetermined number of the total number of said plurality of refrigerant passages remote from and intermediate the point of communication of said other ends of said passages and the header, the remainder of said plurality of refrigerant passages providing unobstructed paths of flow for the free circulation of refrigerant between said header and the point of communication of the said other ends of said passages.

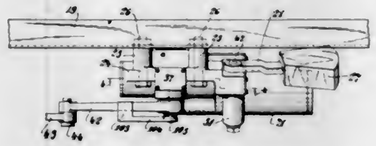
2,166,954
BLEACHING OF WOOD
Hans O. Kauffmann and Robert L. McEwen, Buffalo, N. Y., assignors to Buffalo Electro-Chemical Company, Inc., Buffalo, N. Y.
No Drawing. Application May 11, 1937, Serial No. 142,067
5 Claims. (Cl. 8—111)

1. The method of bleaching wood which comprises treating the wood with a solution containing a peroxide and an alcoholic solution of an alkali and permitting the alcohol to evaporate from the wood whereby the concentration of bleaching agent in the solution in the wood is increased and bleaching facilitated.

2,166,955
VINYL-TYPE RESINS
Arnold Kirkpatrick, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application August 1, 1936, Serial No. 93,883
8 Claims. (Cl. 260—73)

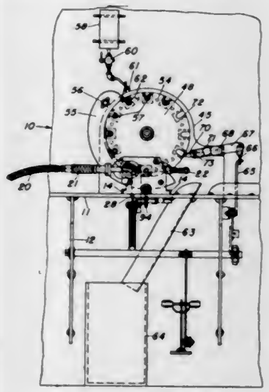
1. A plastic composition embodying a polymerized vinyl acetal resin whose color is normally unstable to light and heat, containing uniformly distributed therein a stabilizing inhibitor of discoloration consisting of an N-acyl-N-alkyl-cyclohexylamine in a proportion not substantially greater than one part per hundred parts by weight of the resin.

2,166,956
SHOCK ABSORBER
Paul Kollsman, New York, N. Y.
Application March 11, 1933, Serial No. 660,367
83 Claims. (Cl. 267—8)



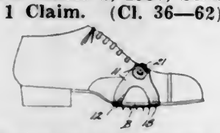
1. A device including a movable member, means movable with said member for controlling the path of movement thereof, said means including a weight yieldingly supported for movement relative to said member, and a control element having slip engagement with said weight and responsive to movements of said weight in different directions.

2,166,957
BOLT RETHREADER
Le Roy J. Knettle, Gloucester, N. J.
Application October 3, 1938, Serial No. 232,935
4 Claims. (Cl. 10—105)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



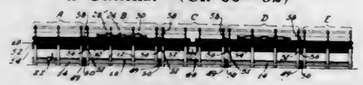
1. A bolt rethreading device comprising a rotatable bolt-holding disc, means for locking said disc against rotation, a bolt-threading die adapted to engage a bolt held in said bolt-holding disc, means supporting said bolt-threading die for reciprocation to bolt-threading and bolt-disengaging position, means operable by the reciprocation of said threading die for unlocking the disc and rotating the disc while the threading die is disengaged from the bolt to be threaded, said locking means comprising a spring-pressed plunger and a series of suitably spaced apertures in said disc into any one of which said plunger may selectively penetrate to lock said disc, said unlocking means including a pivoted lever, one end of which is connected to said locking plunger, a release cam bar connected to the other end of said pivoted lever, a main cam bar adapted to engage said release cam bar, and means connected to said main cam bar extending into the path of said reciprocating threading die to operate said cam bar as said rethreading die is reciprocated away from said disc.

2,166,958
ANTISLIPPING DEVICE
Frans O. Lawson, Greensboro, N. C.
Application November 2, 1937, Serial No. 172,472
1 Claim. (Cl. 36—62)



An anti-slipping device for shoes comprising an elongated integral strip of elastic flexible material having a relatively wide area thereof intermediate its ends, a metal plate mounted on and vulcanized to said wide area of the strip, said plate having a plurality of sharp spurs formed thereon and extending outwardly beyond the surface of said strip, and an elastic flap extending laterally on each side of said wide area, each of said flaps adjacent said wide area having an opening therein whereby each flap is divided into two separate strap portions, and cooperating fastening means on the outer ends of said straps for securing the same together.

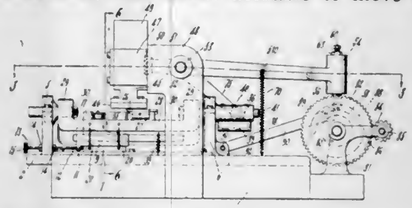
2,166,959
KNITTING MACHINE
Karl Richard Lieberknecht, Oberlungwitz, Germany, assignor to Kalio, Inc., New York, N. Y., a corporation of New York
Application December 24, 1937, Serial No. 181,566
In Germany December 28, 1936
2 Claims. (Cl. 66—82)



1. In a multiple section knitting machine, the combination with knitting instrumentalities including a series of knitting needles and fashioning devices associated with each section, of a machine frame comprising a plurality of transverse supporting frames including two such transverse frames spaced from one another and interposed between two adjoining knitting sections, connecting members for said transverse frames extending along the length of the machine, each of said members being comprised of separate parts having the abutting portions thereof located between said spaced transverse frames, a plurality of driving and controlling members extending along the length of the machine for the simultaneous actuation and control of the knitting and fashioning devices associated with a plurality of sections, each of said driving and controlling members being comprised of separate parts having the abutting portions thereof located between said spaced transverse frames, and means for coupling together the abutting ends of each of said driving and controlling member parts located between said spaced transverse frames whereby a simultaneous operation of the knitting and fashioning devices associated with a plurality of knitting sections located on both sides of said spaced transverse frames is effected by said driving and controlling members.

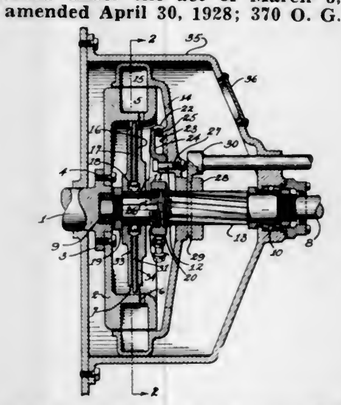
2,166,960
METHOD OF AND MACHINE FOR SKIVING
Harry Lyon, Abington, Mass., assignor, by mesne assignments, to George A. Huff, Brockton, Mass.
Application October 29, 1936, Serial No. 108,180
16 Claims. (Cl. 12—67)

1. A skiving machine comprising a flat work support, a skiving knife having a cutting edge positioned at one side of said support and arranged at an angle to the plane of its work-supporting face, and means actuable to move the



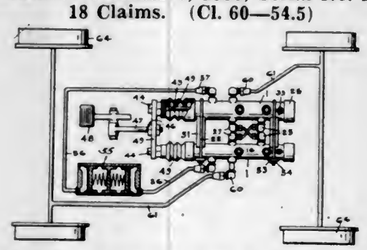
work relative to the support and knife against said cutting edge to skive the work.

2,166,961
TORQUE TRANSMITTING DEVICE
John W. Marsh, Washington, D. C.
Application July 16, 1936, Serial No. 90,938
15 Claims. (Cl. 192—57)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



8. In a clutch structure, in combination a fluid clutch, a friction clutch having a disk directly associated with the driving member, a driven shaft provided with longitudinal splines, two opposing pressure disks slidably mounted thereon and associated with the driven member, a threaded collar mounted on the driven shaft, camming fingers pivoted on said threaded collar adapted to operatingly engage said pressure plates to urge the same together, said threaded collar being axially movable by rotation about the threaded portion of the drive shaft thereby providing means for adjusting the cam action.

2,166,962
HYDRAULIC BRAKE
Malcolm L. Masteller, Miami, Fla.
Application November 7, 1936, Serial No. 109,704
18 Claims. (Cl. 60—54.5)



1. In a brake having dual hydraulic systems; means for equalizing the pressures built up there-

in, comprising two reciprocating members, each disposed between two liquid containing compartments; means for associating one of said compartments pertaining to each of said reciprocating members with one of said dual hydraulic systems in such manner that they form a part of it; means for associating the other of said compartments pertaining to each of said reciprocating members with the other of said dual hydraulic systems in such manner that they form a part of it; engageable means limiting the ranges of said reciprocating members; and resilient means urging said reciprocating members to one end of their respective ranges and yieldingly sustaining them there, all in such manner that each of said reciprocating members have primary compensating movement toward a different one of said dual hydraulic systems.

2,166,963

ANTIGENIC POLYSACCHARIDE COMPLEX

Peter Masucci, Norwood, Pa., assignor to Sharp & Dohme, Incorporated, Philadelphia, Pa., a corporation of Maryland

No Drawing. Application November 19, 1936, Serial No. 111,610

5 Claims. (Cl. 167—78)

1. In the production of polysaccharide complexes from cultures of cocci, the improvement which comprises concentrating the culture by freezing and removing water from the frozen material by the application of a high vacuum while maintaining the material solid, and isolating the polysaccharide complex from the concentrated culture by selective extractions and precipitations.

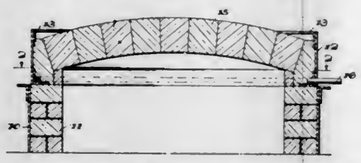
2,166,964

ELECTRIC FURNACE ROOF RING

William E. Moore, Pittsburgh, Pa., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa.

Application June 7, 1937, Serial No. 146,917

2 Claims. (Cl. 122—6)



2. In a furnace, a furnace crucible, a roof structure comprising a metallic roof ring adapted to be supported on said crucible and having an inwardly extending flange at its lower end, said flange being provided with a series of spaced slots extending radially inwardly from the inner edge of the flange to permit expansion and contraction of the flange, a cooling pipe extending about the interior of the roof ring and being welded to the flange adjacent the outer edge thereof to insure a high rate of heat transfer from the flange to the cooling pipe, and a refractory roof supported by the roof ring and flange.

2,166,965

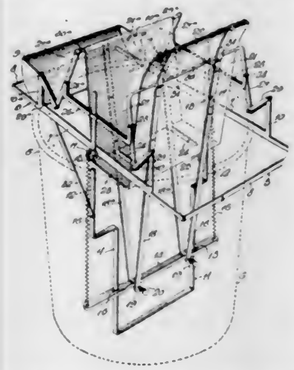
AUTOMATIC MOP WRINGER

Albert Palmer, Alburg, Vt.

Application August 26, 1937, Serial No. 161,151

5 Claims. (Cl. 15—261)

1. A mop wringer comprising a supporting frame having a vertical track, a carriage slidable along said track, arms connected with and extending upwardly from said carriage for movement toward and from each other, the upper ends of said arms being provided with spaced mop-squeezing members, an additional vertical track carried by said frame, an additional carriage slidable vertically on said additional track and elongated in the direction in which said arms are swingable, upwardly converging inclined levers fulcrumed between their ends to



the ends of said additional carriage, hanger links hung from portions of said frame and pivoted to the lower ends of said levers, and means pivotally connecting the upper ends of said levers with said arms, whereby downward pushing of said arms will cause said levers to swing said arms inwardly to squeeze the mop, and restoration of said arms to raised position will cause said levers to swing said arms outwardly to release the mop.

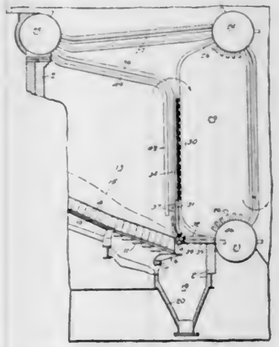
2,166,966

STOKER FURNACE

Ernest B. Priebe, Woodhaven, N. Y.

Application June 26, 1936, Serial No. 87,340

11 Claims. (Cl. 122—235)



2. In a stoker boiler furnace a discharge plate over which the stoker rearwardly discharges, a rear or bridge wall spaced above the plate to form therewith a throat discharging rearwardly to an ash pit, a system of water tubes in circulation with the boiler extended as uptakes in cooling relation to said wall, and a transverse tube below such uptakes carrying protecting blocks constituting the upper edge of such throat.

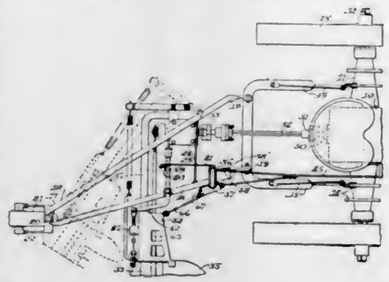
2,166,967

TRACTOR MOWER

Clemma R. Raney, Riverside, Raymore D. MacDonald, Western Springs, and Samuel E. Hilblom, Chicago, Ill., assignors to International Harvester Company, a corporation of New Jersey

Application December 6, 1937, Serial No. 178,214

22 Claims. (Cl. 56—25)



5. In combination with a tractor having a power take-off shaft, a mower comprising a non-releasable frame supported on the tractor for movement about a transverse axis, a support associated with said frame rearwardly of said axis, a releasable mower frame associated with said housing, said housing serving to interconnect the said two frames for relative movement about a vertical axis, cutting mechanism on the mower frame, and driving connections between the power take-off shaft and the cutting mechanism, said connections having a portion thereof carried by the support and including a transverse pitman located rearwardly of the support.

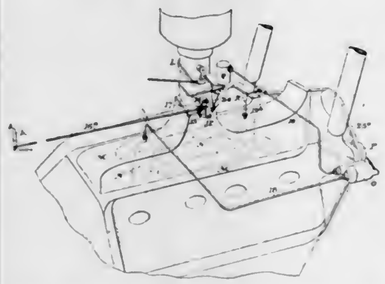
2,166,968

APPARATUS FOR CONTROLLING THE OPERATION OF INTERNAL COMBUSTION ENGINES OF THE MULTICYLINDER TYPE

Karl W. Rohlin, Moorestown, N. J.

Application December 18, 1936, Serial No. 116,464

45 Claims. (Cl. 123—52)



1. The combination, with an internal combustion engine having at least two cylinders, each of which is provided with the usual inlet and exhaust passages and valve means for controlling said passages, of multiple carburetor jets arranged to deliver explosive charges to each of said cylinders independently of the other, and controlling means including a device responsive to increased speed for automatically cutting off feed of fuel to one of said cylinders and similarly increasing the amount of air fed thereto.

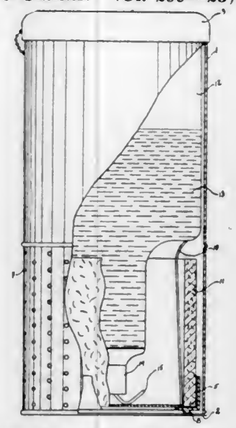
2,166,969

DIFFUSER OF VAPOROUS LIQUIDS

Allen T. Rooch, Cincinnati, Ohio

Application June 11, 1937, Serial No. 147,701

5 Claims. (Cl. 299—23)



1. An air purifier of the kind described herein comprising an apertured container having a base portion and a hinged cap, a removable wick base cup adapted to rest upon the interior of the container base, said base cup having upwardly extending edges, and a circular elevated platform upon its upper surface and depending legs upon its lower surface, a split ring prong holder embracing said circular elevated platform and in frictional engagement therewith, said prong holder having a plurality of upwardly extending prongs for the reception of a wick thereon and to support the shoulders of an inverted bottle, a wick surrounding said prongs and extending into said base cup, an inverted bottle containing fluid within said container and supported upon said prongs, said bottle having a neck containing a valve and a release pin adapted to permit the flow of liquid through said bottle neck and into said base cup and wick.

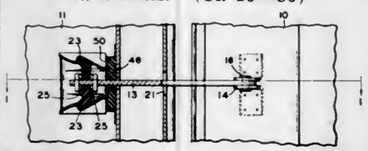
2,166,970

COMBINED DOOR-CHECKING AND DOOR-HOLDING DEVICE

Rudolph I. Schonitzer, Shaker Heights, Ohio

Application July 27, 1938, Serial No. 221,571

12 Claims. (Cl. 16—86)



1. A device for releasably retaining or holding in a predetermined open position a door structure hinged on a supporting structure, said device comprising retaining means adapted to be secured to one of said structures and having a retaining portion and a passageway thereto, an arm adapted to be associated with the other of said structures and to extend through such passageway, and flexible resilient retainable means carried by said arm for cooperation with said retaining portion in releasably retaining the door structure in a predetermined open position, said retaining means and said retainable means being relatively movable in opposite directions during

opening and closing movements of said door structure and the passageway of said retaining means having a cross-dimension less than the maximum corresponding cross-dimension of said retainable means, with the result that during opening and closing movements of said door structure said retainable means is flexed or bowed in opposite directions while in such passageway.

2,166,971
PRODUCTION OF AMINES
Willi Schmidt and Karl Huttner, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application August 15, 1933, Serial No. 685,188. In Germany September 14, 1932
20 Claims. (Cl. 260—583)

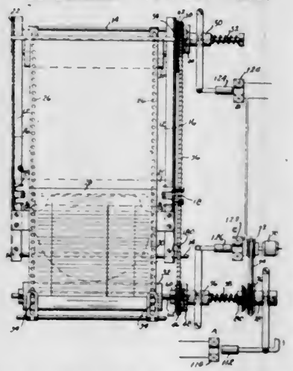
1. A process for the production of amines which comprises reacting a carboxylic acid substance containing at least 6 carbon atoms in the acid radical with a mixture of an ammonia substance and hydrogen at a temperature between about 200° C. and about 500° C. in the presence of a combined hydrogenation-dehydration catalyst.

2,166,972
CAP REMOVER
Louis Sheldon, Chicago, Ill.
Application October 26, 1936, Serial No. 107,527
8 Claims. (Cl. 81—3.1)



1. A prying tool for container closures, said tool comprising an elongated prying part having a substantially plane end portion insertable between a container and a closure therefor after the closure is sealed on the container, and a portion arched longitudinally of and extending from an end of said plane portion and inclined transversely relative to said plane portion.

2,166,973
MOTORIZED CARBON SHIFTER
John Q. Sherman, Albert W. Metzner, and Ardath A. Gopperton, Dayton, Ohio; said Metzner and said Gopperton assignors to said Sherman
Application October 4, 1934, Serial No. 746,798
35 Claims. (Cl. 197—126)



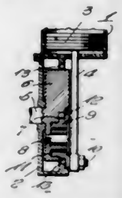
34. The combination with a writing machine utilizing continuous strips of writing material with sheets of transfer material interleaved therebetween for manifolding purposes, of spaced feeding devices having feeding engagement with the strips of record material, a travelling transfer material carrier, and motor actuated driving means for moving the transfer material carrier and the transfer sheets both with and relatively to the record material strips.

2,166,974
APPARATUS FOR TREATING COTTONSEED
Hardin O. Shields, Abilene, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application April 14, 1937, Serial No. 136,766
2 Claims. (Cl. 19—66)



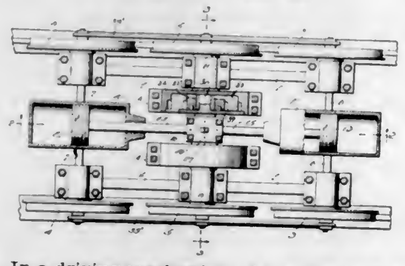
1. Apparatus for conditioning cotton seed and the fibers thereon comprising a conveyor trough having openings in the opposite side walls thereof, a cut-flight screw conveyor for agitating and moving the seed through the length of the trough, and spray nozzles projecting through each of said openings and adapted to spray a conditioning agent upon the seed as it is agitated and moved through the trough.

2,166,975
MECHANICAL MOVEMENT
Manuel Humberto Perez Sologaistoa, San Pedro Sula, Honduras
Application October 10, 1936, Serial No. 105,096
3 Claims. (Cl. 74—52)



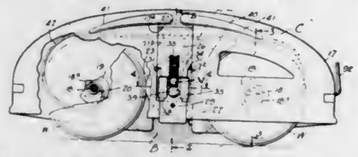
1. In a mechanical movement of the character described, the combination with a cylinder, a piston operating therein, and a rod connected to the piston, of a motion transmitting means comprising a casing arranged axially at right angles to the cylinder and having an annular body wall and a side wall, said body wall being provided with a guide opening through which the rod extends, a stationary gear ring in said casing and carried by the body wall thereof, a shaft extending into the casing through and journalled in the side wall thereof, a fly wheel disk disposed in the casing and within the space bounded by the gear ring, the said fly wheel disk being connected with the shaft at its side facing the side wall of the casing and the opposite side of said fly wheel disk having a recess opening through said side of the disk and through a portion of its periphery, a crank disk rotatably mounted in said recess, and provided with peripheral gear teeth projecting through the peripheral portion of the recess in the fly wheel disk and engaging the teeth of the gear ring, the outer side of said crank disk being provided with an outwardly extending crank pin coupled to the connecting rod, and a fastening member for the crank disk extending through the crank disk and detachably engaging the fly wheel disk and forming a bearing on which said crank disk rotates.

2,166,976
DRIVE MECHANISM FOR LOCOMOTIVES OR OTHER VEHICLES, ENGINES, OR MACHINERY
Manuel Humberto Perez Sologaistoa, San Pedro Sula, Honduras
Application October 10, 1936, Serial No. 105,097
6 Claims. (Cl. 105—96)



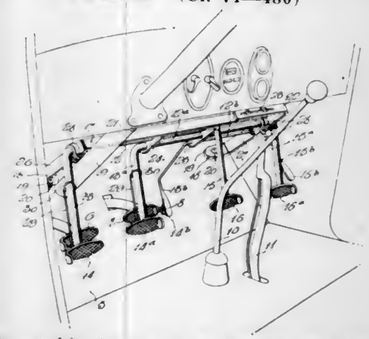
1. In a driving mechanism of the character described, the combination of a pair of transversely alined drive wheels, shaft sections carrying said wheels, a pair of opposed double acting motor cylinders, reciprocating pistons operating in the cylinders, rods connected to the pistons, a bearing connection between the rods coupling them for motion in unison, a crank journaled in said bearing connection, a motion transmitting means between the crank and each shaft section comprising relatively movable elements operative to convert the reciprocatory motion of the rods into rotary motion of the shaft sections and to compensate for and allow the crank to move in a straight line with the rods as they reciprocate, valve mechanism governing the supply and exhaust of a working fluid to and from the ends of the cylinders, and means coupled to and operating in the action of the drive mechanism for actuating said valve mechanism.

2,166,977
CARPET SWEEPER
Earle R. Smith, Alhambra, Calif., assignor to Deborah P. Holmes, Alhambra, Calif.
Application April 6, 1936, Serial No. 72,841
17 Claims. (Cl. 15—41)



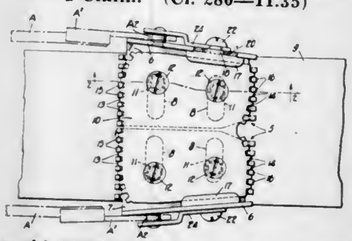
1. A carpet sweeper having a casing; a brush rotatable in the casing; pulleys on the ends of the brush; floor wheels arranged in pairs at opposite ends of the casing so as to have frictional contact with said pulleys; axles for said wheels transversely movable horizontally in the casing; means on the casing for yieldably urging said axles toward each other so that said wheels have driving contact with said pulleys; and means for mounting said brush in the casing so that the pulleys move horizontally with the axles in a manner to maintain driving connections with all of said wheels.

2,166,978
DUAL CONTROL ATTACHMENT FOR AUTOMOBILES
William Stack, Susquehanna, Pa.
Application April 21, 1937, Serial No. 138,234
Renewed October 21, 1938
9 Claims. (Cl. 74—480)



1. In combination with an automobile having the usual inclined foot-board, seat behind said foot-board and clutch, brake and accelerator pedals extending through said foot-board; three independent transverse rock shafts spaced sufficiently above said foot-board to be out of the way of the feet of persons sitting on said seat, mounting means for said rock shafts, three downwardly hanging arms secured one to each of said rock shafts at the left end thereof and resting one on each of said pedals, said downwardly hanging arms having foot plates operable by the driver to actuate said pedals, and three additional downwardly hanging arms secured one to each of said rock shafts at the right end thereof and having foot plates to be operated in emergency by an instructor seated beside the driver.

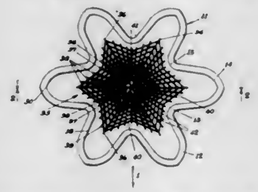
2,166,979
SKI BINDING
Robert Van Brunt, Newark, N. J.
Application February 25, 1937, Serial No. 127,600
1 Claim. (Cl. 280—11.35)



In a ski binding, the combination of two adjustable toe engaging plates, a locking plate to hold the toe engaging plates in their adjusted positions on the ski, and means to hold the locking plate firmly on the ski, the toe engaging plates having teeth at their front and rear edges to cooperate with teeth on the front and rear edges of the locking plate to prevent sidewise displacement of the toe engaging plates and to prevent accidental shifting of the toe engaging plates lengthwise of the ski, the teeth on the toe engaging plates being arranged in two straight parallel rows, the teeth on the rear edge of the locking plate being arranged in a row having a straight middle portion and two curved portions one at each end of said middle portion, the teeth at the

front edge of the locking plate being arranged in two separate rows each having a straight outer end portion which is parallel with said middle portion of the row at the rear end of the locking plate, each row of teeth at the front end of the locking plate having also a curved inner end portion.

2,166,980
FILTERING FUNNEL
Robert Douglas Welsh, Los Angeles, Calif.
Application November 27, 1935, Serial No. 51,841
10 Claims. (Cl. 210—160)



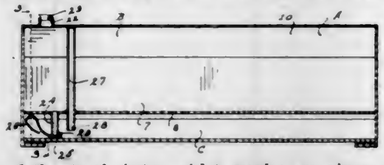
1. A funnel having an axial outlet at the bottom, outwardly and upwardly flared side walls, said side walls having projections with internal concave surfaces and indentations with internal convex surfaces, the concave and convex surfaces merging together and the bottom of the funnel between the side walls and the spout having a somewhat concave configuration on the axial planes through the projections whereby a circular filter paper inserted in the funnel conforms to the inside surface of the funnel without folds or overlaps of the filter paper, the inside surface of the funnel having main radial grooves extending outwardly from the outlet in the inside concave surfaces of the projections, and having secondary substantially radial grooves extending outwardly on the convex surfaces of the indentations, certain of the grooves merging together at positions spaced from the spout leaving supporting surfaces therebetween to cause the filter paper to bridge the grooves.

2,166,981
PROCESS FOR ESTERIFYING POLYMERIZED OLEFINES
Peter J. Wiezevich, New York, N. Y., and Raphael Rosen, Elizabeth, N. J.; said Wiezevich by judicial change of name to Peter J. Gaylor; assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application September 18, 1937, Serial No. 164,494
8 Claims. (Cl. 260—460)

1. Process for preparing detergent aids comprising polymerizing an olefin then separating a polymer fraction having from 10 to 30 carbon atoms in the molecule and treating the olefin polymer fraction with a strong polybasic mineral acid, and neutralizing the olefin polymer acid reaction product to secure a product having detergent and wetting properties.

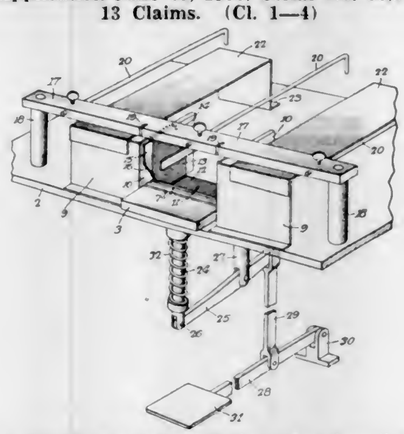
2,166,982
SANITARY FOUNTAIN
George E. Wilson, Salt Lake City, Utah
Application May 19, 1936, Serial No. 80,472
1 Claim. (Cl. 119—77)

In a watering trough for chickens, the combination of a storage tank having the tank side made of one piece bent to form a tank quadrilateral in cross section with one angle at the top and a more acute angle at the bottom and with the outside edges formed into expansion and contraction eaves by bending the metal back upon itself; ends secured to said tank; a filling tube for said tank having a closure therefor; a V-shaped trough mounted between the ends under said tank with the width of the trough less than the distance between the eaves formed on the tank; a discharge tube leading from the bot-



tom of the tank into said trough; an air control tube leading from the top of said tank into the water trough with the lower end spaced above the level of the lower end of the discharge tube; and means to shut off the discharge tube when filling the tank.

2,166,983
APPARATUS FOR ATTACHING PAPER FASTENERS
Edward F. Buenger, Oak Park, and Elmer W. Bacon, Chicago, Ill., assignors to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application June 20, 1936, Serial No. 86,318
13 Claims. (Cl. 1—4)

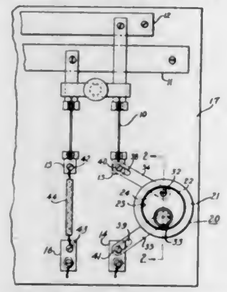


1. In an apparatus of the class described, a platen for supporting a fastener with its prongs bent substantially perpendicularly to its base, means for moving said platen in the direction in which said prongs are pointed, means engaging said prongs for guiding said prongs during the movement of said platen, and means for moving said guide means in a line extending at right angles to the path of travel of said platen during the movement of said platen.

2,166,984
ELECTRIC DISCHARGE TUBE HAVING AN OXIDE CATHODE
Wilhelm Gerard Burgers, Hajo Bruining, and Petrus Hubertus Johannes Agnes Kleynen, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
No Drawing. Application March 9, 1937, Serial No. 129,812. In the Netherlands March 24, 1936
2 Claims. (Cl. 250—27.5)

2. The method of carbonizing a metallic electrode for electron discharge tubes which is also provided with an oxide coated cathode subject to vaporization, which consists in bringing the metallic electrode directly into contact with soot from a flame of burning turpentine.

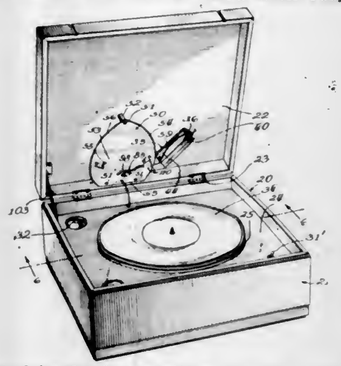
2,166,985
FUSE SOCKET
Jay C. Cowing, Cleveland, Ohio
Application July 9, 1938, Serial No. 218,458
6 Claims. (Cl. 200—133)



1. A fuse socket adjustably arranged for electrical connection between terminals of various distances between same comprising, in combination, an insulated housing having a recess, said insulated housing having two spaced openings extending from the bottom of the recess to the bottom of the housing, a fuse receptacle mounted in the recess, the bottom of said receptacle having a laterally disposed flange portion arranged to engage a side portion of the bottom of the recess, said flange portion having an opening registering with one of said spaced openings, an electrical connecting link swingably positioned beneath the insulated housing, said connecting link having a threadable opening provided in one of its ends and positioned in alignment with one of said spaced openings, a second electrical connecting link swingably positioned beneath the insulated housing, said second connecting link having a threadable opening provided in one of its ends and positioned in alignment with the other of said spaced openings, a screw extending through the opening in the flange portion and the registering spaced opening and threadably engaging the threadable opening of said first mentioned connecting link, said screw electrically connecting the fuse receptacle and the first mentioned connecting link together and also securing same to the insulated housing, a second screw extending through the other said spaced opening and threadably engaging the threadable opening in the said second connecting link and securing same to the insulated housing, said second screw having a head constituting terminal means within the said recess, said connecting links being swingable about the said screws and accommodating terminals of various distances between same.

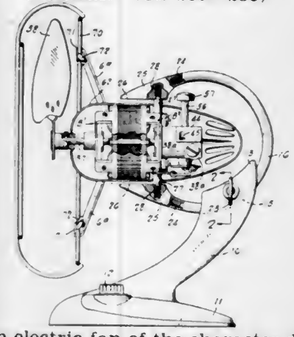
2,166,986
PHONOGRAPH
Roy Dally, Racine, Wis., assignor to Webster Electric Company, Racine, Wis., a corporation of Wisconsin
Application February 18, 1938, Serial No. 191,175
18 Claims. (Cl. 274—2)

1. In a phonograph, the combination of a support with a turntable adapted to support a record, a cover for the turntable, a tone arm pivotally mounted on said cover whereby the tone arm is moved into engagement with the record when the cover is lowered above the turntable, and stop means carried by said cover for locating said tone arm in predetermined position with respect to a record, said tone arm having its point of pivotal mounting so located on the cover that its free end is moved laterally by the playing of the record to a position which is elevated with respect to



the record-beginning position on the cover after the cover has been lifted, so that the tone arm moves by gravity from the record-finishing position to the record-beginning position when the cover is lifted.

2,166,987
ELECTRIC FAN
Patrick J. Fitzgerald, Torrington, Conn., assignor to The Fitzgerald Manufacturing Company, Torrington, Conn., a corporation of Connecticut
Application May 7, 1938, Serial No. 206,558
4 Claims. (Cl. 230—256)

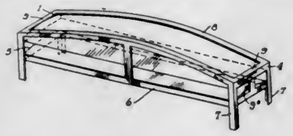


1. In an electric fan of the character described, a shaft, a rotor carried by the shaft, a stator disposed about said rotor, a pair of brackets carried at each side of the stator and having aligned bearings receiving said shaft, a supporting ring having an open section, trunnions carried by each end of the supporting ring, and which trunnions extend into said open section; bearing braces carried by one of the first mentioned brackets receiving said trunnions to pivotally mount the rotor, stator, and associated structure in said open section, a gear box carried by the same bracket which carries the bearing braces, and gear mechanism within said box causing oscillation of the rotor, stator, and associated mechanism.

2,166,988
COMPOUND READING LENS
Robert E. Fosdick, Dayton, Ohio
Application June 1, 1936, Serial No. 82,738
2 Claims. (Cl. 88—39)

1. A magnifying device comprising a holder

frame having a bowed rectangular upper portion and a flat rectangular lower portion, leg portions joining the ends of said upper and lower frame portions, an oblong lens mounted in the upper portion of said frame and having a convex outer surface ground with intersecting longitudinal and transverse curves of different radii, a second oblong lens mounted in the lower portion of said frame, said lenses being separated from each other to leave an air filled refracting space, said lenses being substantially co-extensive and their transverse axes being substantially parallel, the second lens having a convex surface



in said space ground with a cylindroid curve transversely thereof and a fractional curve longitudinally thereof, said lenses being arranged in such relation that said second lens is closest to the object under observation, the image of which is viewed through said first lens, whereby the light rays passing from said object to the observer's eye are first acted upon by said second lens and subsequently by said first lens, said lenses co-acting to give sufficient lateral magnification to enable objects magnified to be clearly seen through said first lens at an angle of 45° endwise from a perpendicular to the longitudinal axis thereof.

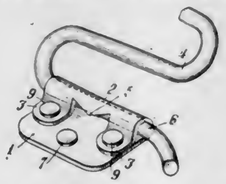
2,166,989

SPRING ANCHORING DEVICE

William W. Gleason, Chicago, Ill., assignor to Nachman Springfilled Corporation, Chicago, Ill., a corporation of Illinois

Application September 22, 1938, Serial No. 231,203

3 Claims. (Cl. 155—179)



1. A device for the purpose specified comprising a base plate equipped with a plurality of spaced apart perforations, one thereof adapted to receive a fastening device for securing said plate in place, a flange at one end of said plate bent to overhang the latter and provide a socket for receiving a portion of a spring, said flange equipped with a downwardly projecting formation normally spaced from the plate a distance slightly less than the diameter of the wire of the spring for permitting a portion of the latter to spring past said formation into said socket, said flange terminating in a pair of perforated tongues overhanging and normally spaced from said plate and having said perforations aligned with perforations of said plate for the reception of fastening devices for further securing said plate in place and for bringing said tongues into contact with said plate and effecting further bending of said flange to cause said formation to be disposed to constitute a stop formation for limiting the movement in one direction of the portion of the spring engaged in said socket.

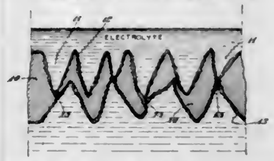
2,166,990

ELECTROLYTIC CONDENSER AND METHOD OF PRODUCING SAME

Donald E. Gray, Yonkers, N. Y., assignor, by mesne assignments, to Cornell-Dubilier Electric Corporation, a corporation of New York

Application August 22, 1934, Serial No. 740,875

7 Claims. (Cl. 148—8)



5. A process of preparing aluminum elements for use in electrolytic condensers which comprises treating an element in an etching solution containing hydrochloric acid to roughen its surface while maintaining the solution at ebullition temperature, washing the roughened element in water and then treating it in hot glycerine.

2,166,991

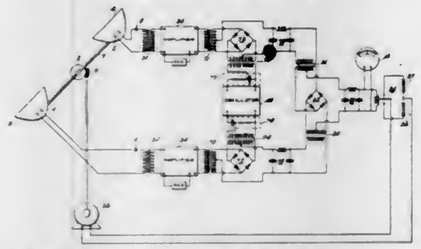
DIRECTION FINDING SYSTEM

Gustave Guanella, Zurich, Switzerland, assignor to Radio Patents Corporation, New York, N. Y., a corporation of New York

Application November 24, 1937, Serial No. 176,207

In Switzerland December 1, 1936

15 Claims. (Cl. 250—11)



1. A direction finding system comprising a pair of spaced radiant energy absorbers, means for producing equivalent electric current waves varying according to the energy portions received by said absorbers from a single transmitting source, modulating means for producing a resultant potential being a product function of the instantaneous values of said current waves, a direct current instrument responsive to the direct component of said resultant potential connected to said modulating means, and means for simultaneously varying by substantially equal amounts the relative time phases of components of like frequencies of said current waves.

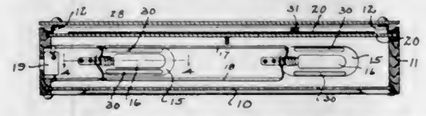
2,166,992

FLAT TYPE DUPLICATOR

Mahlin S. Hansen, Indianapolis, Ind.

Application August 15, 1938, Serial No. 224,843

8 Claims. (Cl. 101—125)



1. In a flat duplicator, side and end enclosing walls, a diffusing glass secured by the walls, an

ink pad plate also carried by the walls, said plate and glass being mounted in spaced apart relation, and a plurality of illuminating and heating lamps carried by the walls, said walls being provided with vents adjacent the lamps.

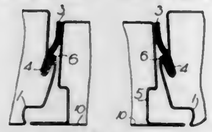
2,166,993

WEATHERPROOFING STRUCTURE FOR DOORS

David H. Harnly, Chicago, Ill.; Willard R. Matheny administrator of said David H. Harnly, deceased

Application August 30, 1937, Serial No. 161,592

8 Claims. (Cl. 20—69)



1. In a weather proofing structure for excluding the weather between a swinging door and its frame comprising a resilient sponge rubber strip having fabric backings upon its faces and having a base portion, said frame having a sloping groove with the base portion of said strip lodged and secured in said groove, one wall of said groove terminating in a gripping edge engaging said strip and deflecting the free portion at an angle.

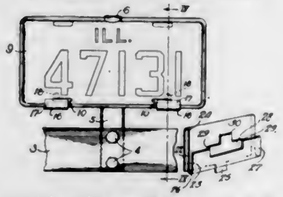
2,166,994

LICENSE PLATE HOLDER

Stanley L. Hogle, Aurora, Ill., assignor to Aurora Equipment Company, Aurora, Ill., a corporation of Illinois

Application July 21, 1938, Serial No. 220,433

3 Claims. (Cl. 40—125)



2. The combination with a slotted license plate and a slotted supporting bracket including a slidable clamping hook, of clip members engaged through the slotted bracket and receiving the lower margin of the license plate seated therein with said clamping hook engaged over the upper margin of the license plate to hold the license plate clamped in place between the clip members and said clamping hook, said clip members having deflected portions projecting through the slots in the license plate and engaging against the back of said license plate.

2,166,995

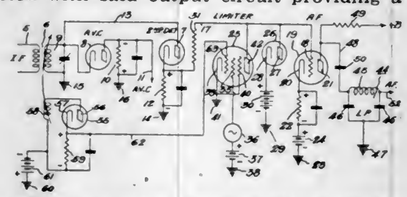
NOISE REDUCTION SYSTEM

Winfield R. Koch, Merchantville, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application May 28, 1936, Serial No. 82,204

10 Claims. (Cl. 250—20)

10. In a radio receiving system, means providing noise reduction comprising an audio frequency detector having an output circuit, an impulse limiter connected with said output circuit, means connected with said output circuit for interrupting therein a limited noise impulse in a series of super-audible waves, and means connected with said output circuit providing a low



pass filter therein for removing said super-audible waves.

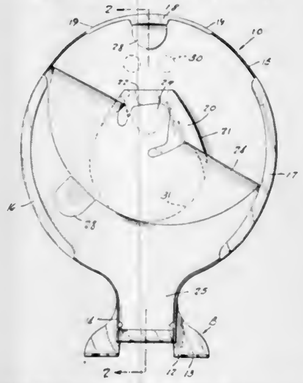
2,166,996

TOILET SEAT COVER DISPENSER

William George Lemmon and Allen Stowers, New York, N. Y.

Application March 23, 1938, Serial No. 197,744

6 Claims. (Cl. 312—50)



4. A dispensing device for toilet seat covers comprising a main body plate, means for mounting the main body plate in upright position at the rear of a toilet seat, said main body plate having a shape substantially conforming to the size and shape of toilet seat covers which are to be positioned thereon, and have central openings and dispensing tabs carried at the top of said cover, a flange extending about the periphery of said main body plate, a retaining flange carried by said flange at the top and adapted to overlie said dispensing tab when the seat covers are assembled therewith, and a central plate conforming in size and shape to openings in the seat covers and being maintained in spaced relationship from the main body by an inclined wall extending partially about the periphery of the center plate, said inclined wall being interrupted at the top immediately beneath said top flange which overlies the dispensing tab.

2,166,997

PROCESS OF DISTILLING ORGANIC ACID ANHYDRIDE

Josef Lösch, Knapsack, near Cologne-on-the-Rhine, Germany, assignor to Aktiengesellschaft für Stickstoffduenger, Knapsack, near Cologne-on-the-Rhine, Germany

No Drawing. Application November 8, 1934, Serial No. 752,111. In Germany June 9, 1934

6 Claims. (Cl. 202—46)

6. The process which comprises introducing a liquid mixture containing an organic aliphatic monocarboxylic acid anhydride, water and the acid corresponding with the said anhydride into hot vapors of said acid, thus separating the water

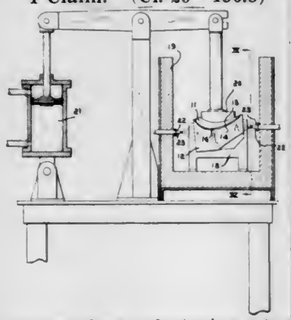
and at least the major portion of the acid contained in said mixture from said anhydride by fractional distillation.

2,166,998

METHOD OF BRAZING TURBINE BLADES

John G. Morgan, Collingdale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 2, 1938, Serial No. 222,584
1 Claim. (Cl. 29—156.8)



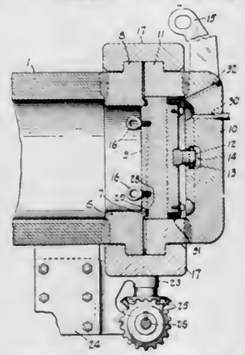
In the process of manufacturing a turbine blade wherein a packing piece is fastened in lapping relation with respect to one end portion of a blade section to provide a root portion for the blade comprising providing blade and packing piece sections having surfaces to be joined, supporting the packing piece section, superimposing the blade section on the packing piece section with soldering material arranged between the surfaces to be joined, applying pressure to the blade section to hold the superimposed parts in desired relative relation, and, with pressure applied to the blade section, applying heating flames to edges of the packing piece section below the blade section so that the packing piece section may have its temperature raised sufficiently to fuse the soldering material to effect a connection between the sections.

2,166,999

QUICK OPENING PRESSURE VESSEL

Howard H. Needham, Wauwatosa, and Frederick K. Zerbe, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application December 24, 1936, Serial No. 117,464
1 Claim. (Cl. 220—24)



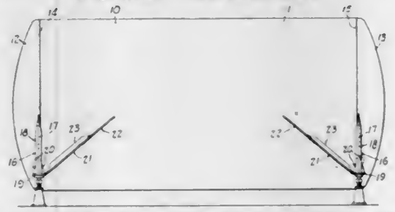
A pressure vessel comprising a heavy walled shell open at one end and a unitary closure adapted to seal said end, said closure comprising a cover housing an axially movable head attached thereto by a bayonet joint to permit said axial movement of the head in said cover and permit disengagement therefrom, said head having a gasket seat adapted to cooperate with a gasket seat on the open-end of the shell, a gasket interposed between said seats, a chamber between the head and cover in which fluid may be applied, a gasket between said head and cover to prevent the fluid from escaping from said chamber, and means for retaining said cover on said shell.

2,167,000

SUPPORTING BRACKET FOR CYLINDRICAL VESSELS

Eric H. Nilson and Fritz A. Carstens, Milwaukee, Wis., assignors to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York

Application December 10, 1937, Serial No. 179,055
3 Claims. (Cl. 248—146)



1. In combination with a horizontally positioned vitreous enamel lined cylindrical vessel, a pair of brackets at each head disposed on opposite sides of the lower half of the vessel, each bracket comprising a vertical fin edge-welded to the vessel along a circumferential line at the head and a foot plate welded to the outer lower edge of said fin, and a brace plate welded to said foot plate and inclined upwardly and diagonally engaging the cylindrical body of the vessel on a curved line and edge welded to the vessel along said line of engagement.

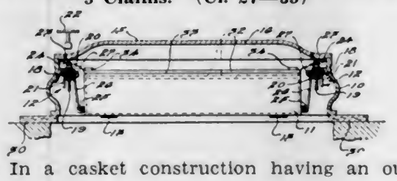
2. In combination with a horizontally positioned vitreous enamel lined cylindrical vessel, a pair of brackets at each head disposed on opposite sides of the lower half of the vessel, each bracket comprising a vertical fin edge-welded to the vessel along a circumferential line at the head, a foot plate welded to the outer lower edge of said fin and a gusset plate welded to said fin and foot plate, a brace plate welded to said foot plate and inclined upwardly and diagonally engaging the cylindrical body of the vessel along a curved line and edge welded to the vessel along said line of engagement, and a reenforcing web edge welded to a face of said brace plate.

2,167,001

CASKET CONSTRUCTION

David Oppenheim, Detroit, Mich.

Application July 8, 1937, Serial No. 152,599
5 Claims. (Cl. 27—35)



1. In a casket construction having an outer

decorative shell and an inner burial box, means detachably connecting said shell and said box, said means comprising a plurality of vertically arranged bolts carried by said shell and a corresponding plurality of travelling nuts engaging said bolts, means preventing rotation of the nuts when the respective bolts are rotated, and rigid hook rods connected with said nuts and depending therefrom for suspending and lowering said burial box, said hook rods being hooked into loops upon the said burial box and automatically disengageable therefrom after the burial box is supported by lowering straps.

2,167,002

VITAMIN E COMPOSITION

August J. Pacini, Chicago, Ill., assignor, by mesne assignments, to U. S. Vitamin Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application January 20, 1936, Serial No. 59,927
10 Claims. (Cl. 167—81)

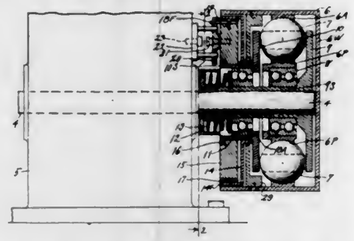
1. A composition of matter comprising a material containing significant amounts of vitamin E, and manganese distributed therein in an amount not less than 0.05%.

2,167,003

AUTOMATIC POWER CONTROL MEANS FOR VARIABLE SPEED PULLEYS

Otis Edward Pensbee, St. Paul, Minn.

Application January 6, 1938, Serial No. 183,662
4 Claims. (Cl. 74—302)



1. In an automatic power input control device of the class described for reduction speed pulleys having speed reduction means within the pulley and the latter mounted on a motor drive shaft, said speed reduction means comprising a circular row of balls rotatable in pockets of a diametrical web of the pulley, a drive cone on the motor shaft engaging the outer parts of said balls and an inner normally stationary cone engaging the inner parts of said balls, a flanged drum carried by said inner cone, an expansible and contractible band normally engaging said flanged drum frictionally and means for automatically disengaging said band from the drum when the load on the pulley exceeds a predetermined amount.

2,167,004

PRODUCTION OF HYDROCARBONS

Mathias Pier, Heidelberg, Wilhelm Michael, Ludwigshafen - on - the - Rhine, and Wolfgang Jaeckh, Heidelberg, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application December 16, 1936, Serial No. 116,124
In Germany December 20, 1935
4 Claims. (Cl. 260—449)

1. A process for carrying out the conversion of carbon monoxide with hydrogen for the production of hydrocarbons in the presence of a rigidly arranged catalyst which comprises passing the said carbon monoxide and hydrogen at a reacting temperature over such catalyst and simultaneously trickling over the catalyst a medium which is at least partly liquid under the conditions employed, while avoiding the formation of a liquid level in the catalyst space.

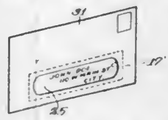


2,167,005

PREADDRESSED ENVELOPE

Ernst C. Sauerman, Chicago, Ill.

Application November 11, 1937, Serial No. 174,050
5 Claims. (Cl. 229—71)



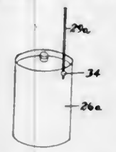
1. As a new article of manufacture, a complete pre-addressed envelope ready for use by a sender provided with an opening for the reception of mailing matter and having a flap adapted to cover said opening, one wall of said envelope being provided with a window opening and having a previously addressed slip permanently secured to the inner face of said windowed wall in position to present the address carried thereby to view through said window opening.

2,167,006

SOLDERING MACHINE

Alfred Schmidt, Weehawken, N. J.

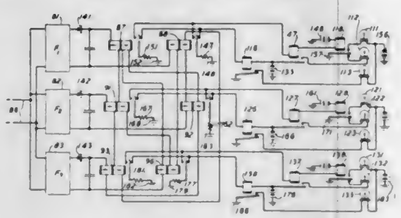
Application July 16, 1937, Serial No. 153,917
10 Claims. (Cl. 113—59)



1. In a soldering machine, a flexible endless conveyor, means for holding battery cells and the like on said conveyor in predetermined relative fixed positions, and a plurality of conductor wire clamps on said conveyor for holding a conductor wire against each battery cell on said conveyor in a relatively fixed position, each of said clamps having a movable member by which the clamp may be opened, and means external

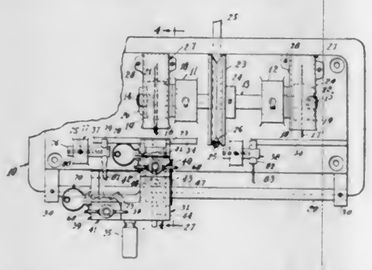
of and stationary relative to said conveyor for moving said member of each clamp to open the clamp so that the clamp may receive said conductor wire, said endless conveyor comprising a plurality of L-shaped sections transversely adjacent each other and pivotally connected with links and adapted to receive the battery cells transversely between adjacent vertical arms of the L-shapes and on the horizontal arms and each of said clamps being on one of said sections arranged so that said movable member projects therefrom to be in the path of said latter means during the motion of the endless conveyor.

2,167,007
TRANSMISSION CIRCUIT
Lionel Schott, East Orange, and Sumner B. Wright, South Orange, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 15, 1937, Serial No. 142,832
6 Claims. (Cl. 177—311)



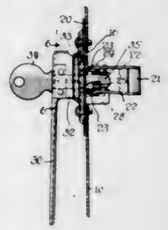
1. In combination, a transmission line, means for applying waves of a comparatively wide frequency range to said line, means for splitting said waves into a plurality of smaller frequency bands, the number of said bands being greater than two, means for measuring the power passed in each of said smaller frequency bands relative to that in the other bands, and means for indicating the order of prominence among said smaller bands with respect to the power passed therein.

2,167,008
KEY DUPLICATING MACHINE
Max Shepse, Pittsburgh, Pa.
Application October 29, 1937, Serial No. 171,661
1 Claim. (Cl. 90—13.05)



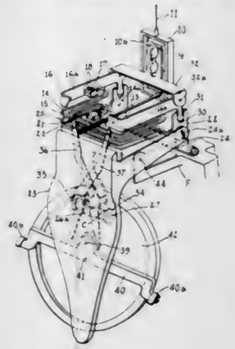
In a key duplicating machine of the kind described, a base, a sliding rod mounted on said base, a single carriage slidably and pivotally mounted on said sliding rod, a frame transversely slidable on said carriage, a pair of reversible vises supported on said frame, one to hold a template key and the other one to hold a key blank, a pair of unlike cutting wheels and a pair of depth gauges for each of said cutting wheels, said single carriage adapted to be selectively brought in alignment with one of said cutting wheels and one of said depth gauges.

2,167,009
LOCK
Louis W. Skobel, Chicago, Ill., assignor to Interstate Metal Products Co., Inc., Chicago, Ill., a corporation of Illinois
Application January 8, 1935, Serial No. 859
15 Claims. (Cl. 70—149)



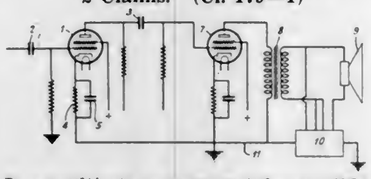
1. A lock comprising, in combination, a shiftable latch element, a supporting member shiftable in the operation of the latch element, and a member removably carried by the supporting member and engageable with the latch element for shifting it, said member being removable from and replaceable on said supporting member in the normal operation of the lock.

2,167,010
MECHANICAL RELAY APPARATUS
Irving M. Stein, Philadelphia, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 6, 1937, Serial No. 124,376
18 Claims. (Cl. 74—1)



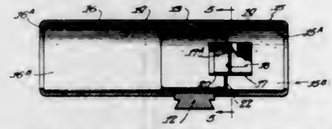
1. In an instrument comprising a galvanometer having a pointer and a coil for deflecting said pointer along a predetermined path, and filamentary means for rotatably supporting said coil and pointer, means for restraining said pointer in fixed oosition without flexure thereof and without application of stress to said suspension means comprising clamping members having clamping surfaces, coextensive with the range of deflection of said pointer, disposed on opposite sides of said pointer, and means for movably mounting said members simultaneously to engage and disengage said pointer while in its predetermined path of deflection and without displacement of the pointer in any direction.

2,167,011
RECEIVING CIRCUIT
Bernardus D. H. Tellegen, Eindhoven, Netherlands, assignor to N. V. Philips Gloeilampenfabrieken, Eindhoven, Netherlands, a corporation of the Netherlands
Application January 7, 1937, Serial No. 119,464
In Germany January 13, 1936
2 Claims. (Cl. 179—1)



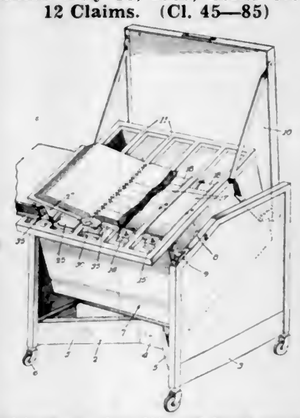
1. In a multi-stage vacuum tube amplifier having a ground point and means for impressing signal voltage between said ground and the first tube grid of said amplifier to vary the potential of said grid with respect to ground, said amplifier having its output transformer-coupled to the voice coil of an electrodynamic loudspeaker, means for reducing the effects of mechanical resonance in said loudspeaker comprising means for developing a voltage proportional to the secondary voltage of said transformer, means for developing a voltage proportional to current through said voice coil, connections for combining said last named voltages to produce a resultant potential variation with respect to ground, and connections for impressing said variation upon the cathode of said first tube, the phase of the first mentioned component of said variation being similar to that of the potential of said grid while the phase of the second mentioned component of said variation is substantially opposite thereto.

2,167,012
FRONT SIGHT FOR FIREARMS
Benjamin A. Tetzlaff, Riverside, Ill.
Application January 29, 1937, Serial No. 123,030
Renewed December 17, 1938
1 Claim. (Cl. 33—47)



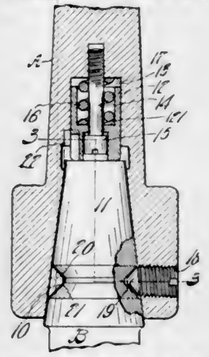
A front sight comprising a cylindrical sighting member having threaded ends and a dovetailed supporting base member disposed between the threaded ends; an interiorly threaded cylindrical support disposed concentrically with said cylindrical sighting member, said cylindrical support being substantially shorter than said cylindrical sighting member; a pair of laterally aligned narrow arms disposed parallel to the bottom face of said supporting base member on a horizontal line passing through the optical axis of the sight; a narrow arm disposed perpendicularly to the bottom face of said supporting base member on a vertical line passing through the optical axis of the sight; said arms being integral with said cylindrical support and with the wall of said cylindrical sighting member and extending in a plane common to adjacent ends of said cylindrical sighting member and said cylindrical support; an adapter having an apertured sighting diaphragm therein, said adapter having a threaded end adapted to be screw-mounted within said cylindrical support; and a pair of elongated open end hoods screw-mounted on the threaded ends of said cylindrical sighting member, said hoods being of relatively different lengths and being interchangeable for relative mounting on the ends of said cylindrical sighting member.

2,167,013
CABINET
Paul O. Unger, Glen Ellyn, and John Howard Talmage, Chicago, Ill., assignors to Wilson-Jones Company, Chicago, Ill., a corporation of Massachusetts
Application May 18, 1936, Serial No. 80,398
12 Claims. (Cl. 45—85)



1. A cabinet, a plurality of book supports pivotally mounted in said cabinet in side by side relationship and adapted to be swung into position for use in a common plane, and hinge means on each of said supports to permit pivotal movement of said supports in a clockwise or counter-clockwise direction.

2,167,014
SOCKET-SHANK STRUCTURE
Joseph Verderber, Cleveland, Ohio
Application May 20, 1937, Serial No. 143,743
1 Claim. (Cl. 279—83)

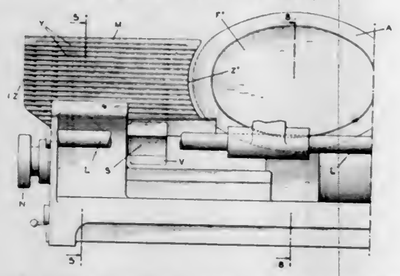


In combination, a socket-shank structure consisting only of a socket having a longitudinal bore in an end thereof and a drift slot traversing the bore, a shank insertable into and fitting to a portion of said bore and having a taper sided depression therein intermediate the ends thereof, a manually operable screw threaded into said socket traversely of the longitudinal axis thereof and having a taper end engageable with a taper side of said depression for moving said shank into position in said bore and retaining the same

therein and releasing the same therefrom and disengaging said side of the depression for removing the shank from the socket, and a spring-pressed cup mounted longitudinally movable in the bottom part of said bore and bearing against the inner end of said shank for moving the same outwardly of said socket when the taper part of said screw has released said shank; said drift slot having the top thereof above the bottom of said cup and the bottom thereof below the bottom of said cup for inserting a drift pin and forcibly releasing said shank from said socket.

2,167,015
SLICING MACHINE

John Jacob Waage, New York, N. Y., assignor to Globe Slicing Machine Company, New York, N. Y., a corporation of New York
Application August 21, 1936, Serial No. 97,114
2 Claims. (Cl. 146—102)

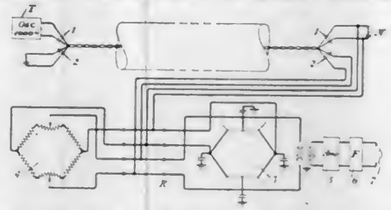


1. A slicing machine combining a base having an upstanding guide sleeve, a rotary knife having its axis of rotation fixed with respect to the base, a gauge plate, a marginal stiffening frame for said gauge plate, a plurality of dependent guides secured to one edge of the stiffening frame, the said guides sliding in said guide sleeves, means including a cam cooperating with one of said guides to raise and lower the stiffening frame and its attached gauge plate with respect to the knife, said gauge plate having a plurality of longitudinal slits forming a plurality of parallel object supporting strips and object supporting means reciprocal relatively to the knife and gauge plate to slide the object back and forth on the strips and knife, the object supporting means being over the knife at one end of the cutting stroke, leaving the gauge plate entirely free of the object to permit an unobstructed view of the severed slices in back of the gauge plate through the slits of the gauge plate from a point in front of the gauge plate.

2,167,016
CROSS-TALK REDUCTION

Myron A. Weaver, Rye, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 22, 1937, Serial No. 165,047
5 Claims. (Cl. 179—78)

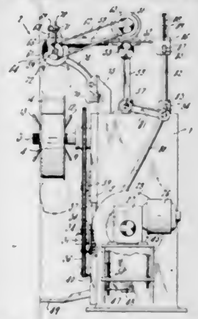
1. The method of reducing cross-talk in a high frequency signaling cable comprising a plurality of two-pair quads, which consists in dividing the quads in each section of cable into two portions of approximately equal length, and splicing the quads in the first half of each section to the quads of the second half of the section on the basis of nearest equivalence in magnitude of measured far-end equivalent conductance unbalances between the pairs in each quad for the two half-sections, with or without transposition of pairs, depending on whether the unbalances of the quads in the two half-sections to be spliced together are of like or opposite phase, whereby the quads in each half of each section of cable serve to balance the far-end cross-talk unbalances



within the quads of the other half-section of cable.

2,167,017
APPARATUS FOR SLITTING TIRE TREADS

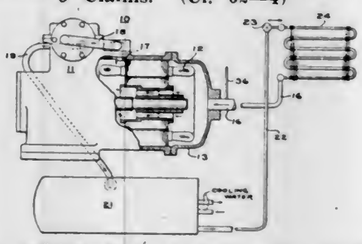
George F. Wikle, Detroit, Mich., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application July 15, 1936, Serial No. 90,716
12 Claims. (Cl. 164—61)



1. An apparatus for slitting treads of pneumatic tires comprising means for rotatably supporting a tire, driving means for intermittently imparting increments of rotary motion to the supporting means, a guide track adapted to rest upon the tread of the tire, a rotary circular knife, means for actuating the knife, and means for moving the knife transversely of the tread of the tire while supported at least in part by the guide track.

2,167,018
REFRIGERATING APPARATUS

Edward R. Wolfert, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 23, 1938, Serial No. 191,978
8 Claims. (Cl. 62—4)



1. In refrigerating apparatus, the combination of a compressor, a motor for driving said compressor, said motor being of a type in which

the current flowing therethrough is not decreased in proportion to the reduction in load occurring upon decrease in pressure of the suction gas entering the compressor, means for conveying expanded refrigerant gas in contact with said motor for cooling the same and then admitting said gas to the compressor, and means for automatically reducing the current flowing through said motor in response to a predetermined minimum pressure of said expanded refrigerant gas.

2,167,019
AUTOMATIC CLUTCH FOR DRILLING APPARATUS

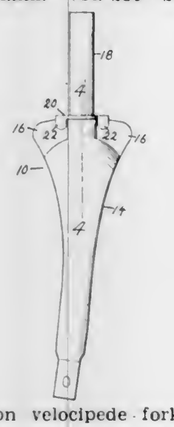
Lloyd Yost, Wilmette, Ill., assignor to A. O. Smith Corporation, Milwaukee, Wis., a corporation of New York
Application November 1, 1937, Serial No. 172,134
6 Claims. (Cl. 255—4)



1. In a well drilling apparatus, a drill pipe, a drill bit rotatably attached at the lower end thereof, a clutch for connecting said drill pipe to said drill bit, and fluid pressure means responsive to the flow of drilling fluid through the apparatus for holding said clutch member in disengagement.

2,167,020
VELOCIPEDE FORK

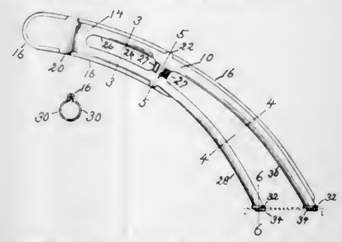
Bert J. Anderson, Hammond, Ind.
Application February 24, 1936, Serial No. 65,375
1 Claim. (Cl. 280—279)



A combination velocipede fork and steering post therefor comprising, a pair of complementary stampings, the lower portion of each stamping being shaped to form one prong of the fork, the upper portion of each stamping being curled into semi-cylindrical formation, and securing fins on opposed sides of each stamping intermediate the ends thereof, said fins providing a support for a thrust bearing.

2,167,021
VELOCIPEDE

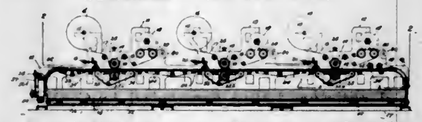
Bert J. Anderson, Hammond, Ind.
Application February 1, 1937, Serial No. 123,501
2 Claims. (Cl. 280—282)



1. A backbone comprising a pair of complementary stampings, the rear end of each stamping being bifurcated, one bifurcated portion of each stamping being curled into tubular formation, and means for securing said stampings together.

2,167,022
PRINTING PRESS

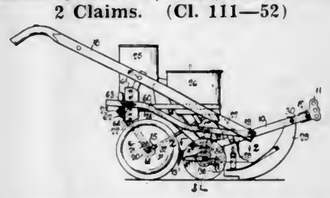
Carl W. Brenn, Montclair, N. J., and Charles A. Meisel, Boston, Mass.
Application April 22, 1936, Serial No. 75,734
24 Claims. (Cl. 101—268)



1. A printing press, a frame; a plurality of impression means spaced along the frame, each adapted to serve a separate continuous strip; a plurality of mechanically noninterconnected printing plates; and means for supporting and causing said plates to pass seriatim to position to print on said strips succesively, said last-named means being constructed and arranged to support the noninterconnected plates for ready selection and removal therefrom.

2,167,023
SIDE DRESSING APPARATUS FOR PLANTERS

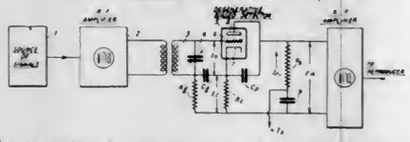
Eugene M. Cole, Charlotte, N. C.
Application October 9, 1936, Serial No. 104,856
2 Claims. (Cl. 111—52)



2. A guano distributor having a framework, a furrow opener disposed centrally and forwardly

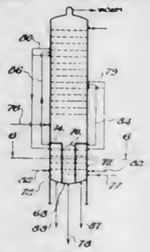
of the framework for depositing seed, a second furrow opener disposed rearwardly of the first furrow opener and also being disposed laterally of the longitudinal center of the framework for depositing guano to one side of the seed deposited in the furrow formed by the first furrow opener, the second furrow opener comprising a standard, a disk mounted for rotation on the lower end of the standard, means for adjusting the angularity of the disk relative to a vertical plane, and a shoe having open lower and upper ends and being secured to said standard and having its lower open end flush with one side of the disk.

2,167,024
DEGENERATIVE PLATE CIRCUIT DETECTOR NETWORK
Paul O. Farnham, Boonton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 1, 1935, Serial No. 8,864
2 Claims. (Cl. 250—27)



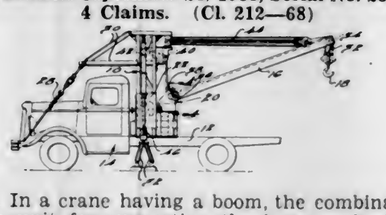
1. A radio frequency signal demodulator network which possesses a substantially linear detection characteristic up to 100 per cent modulation of the receiver carrier, comprising a vacuum tube having cathode, grid and plate electrodes, a tunable input circuit having its high potential terminal connected to the grid and its low potential terminal connected to the cathode, said last mentioned connection including a condenser having a low impedance to carrier frequencies, a grid biasing resistor having one end connected to the common terminal between one side of said condenser and the cathode, and a second resistor having one end connected to the common terminal between the other side of said condenser and the tuned circuit, the other ends of said resistors being connected to the low potential end of the network, the values of said resistors being such that degeneration of audio currents developed across the biasing resistor occurs while degeneration with respect to carrier currents is prevented.

2,167,025
FRACTIONATING COLUMN
Salvatore A. Guerrieri, Mount Vernon, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application August 21, 1935, Serial No. 37,136
2 Claims. (Cl. 196—94)



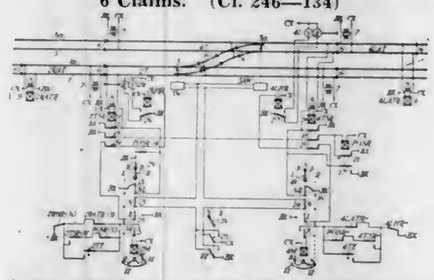
1. A fractionating column comprising a shell having a rectifying section, a vertical partition in the bottom of the shell forming a bottoms stripping section on one side thereof and a side stripping section on the other side thereof, means for introducing charge material between the rectifying section and the bottoms stripping section, means for withdrawing a side stream from the rectifying section and passing it to the side stripping section, means for conducting vapors from the side stripping section to the rectifying section, means for withdrawing a residual material from the bottoms stripping section, and means for withdrawing a side product from the side stripping section.

2,167,026
POWER SWING CRANE
Ronald K. Hatch, Highland Park, Mich., assignor to Gar Wood Industries, Inc., a corporation of Michigan
Application September 24, 1938, Serial No. 231,452
4 Claims. (Cl. 212—68)



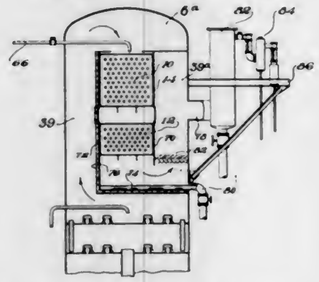
1. In a crane having a boom, the combination of a unit for supporting the inner end of the boom and for swinging the boom comprising a supporting base structure, a member rotatably supported on said base, means on said member adapting it to be driven in rotation, means on said member axially spaced from said first mentioned means adapting said member for connection to the boom, and bearing connections between said base and said member positioned between said first and second means, said bearing connections comprising a pair of axially spaced anti-friction bearings, one located adjacent the boom connection and the other located adjacent the rotational drive.

2,167,027
INTERLOCKING CONTROL APPARATUS
Charles H. Lay, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application December 3, 1938, Serial No. 243,874
6 Claims. (Cl. 246—134)



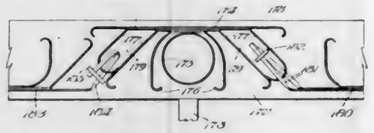
1. In combination, a plurality of railway tracks divided into a plurality of track sections, a track circuit including a track relay for each of said sections, a plurality of track switches in said sections interconnecting said tracks, locking means when deenergized preventing operation of said switches, a power-off relay, a common source of electrical current for energizing said track circuits and said locking means and also said power-off relay, a pick-up circuit for said power-off relay controlled by a front contact of each of said track relays, a stick circuit for said power-off relay for retaining said power-off relay in the picked up condition at all times except when said source of current fails, and means controlled by said power-off relay in the picked up condition and by back contacts of said track relays for at times energizing said locking means.

2,167,028
CONDENSER
Frank J. McGovern, Forest Hills, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application September 5, 1935, Serial No. 39,263
Renewed May 14, 1938
8 Claims. (Cl. 257—34)



1. The combination with a column having a distilling section, of a condenser having tubes in the upper part of the column, a partition forming a vapor space leading from the distilling section to the top of the condenser, an outlet for uncondensed vapors, evacuating equipment connected with said outlet, and means for supporting the evacuating equipment from the side of the column.

2,167,029
REINFORCING MEMBER FOR HETEROGENEOUS BEAMS
Joel E. McLafferty, Omaha, Nebr.
Application November 19, 1936, Serial No. 111,608
37 Claims. (Cl. 72—61)

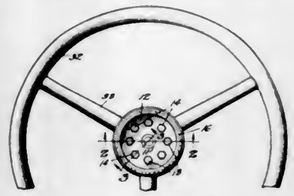


37. In continuous heterogeneous beam construction, the combination of a unitary reinforce having an enclosing member and shear prongs located over a support, and a second reinforce located between supports and substantially linked to the unitary reinforce.

2,167,030
VULCANIZATION OF RUBBER
William E. Messer, Cheshire, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
No Drawing. Original application March 5, 1935, Serial No. 9,385. Divided and this application June 28, 1935, Serial No. 28,809
8 Claims. (Cl. 18—53)

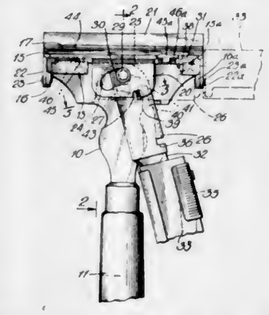
1. A process of producing a vulcanized rubber product which comprises incorporating in rubber prior to actual vulcanization a mercaptobenzothiazole derivative of the free base reaction product of equi-molecular proportions of formaldehyde and a primary aliphatic amine salt of a non-oxidizing mineral acid.

2,167,031
CIRCUIT CLOSER FOR USE IN A SIGNALING DEVICE FOR MOTOR VEHICLES
William Pitt, Brooklyn, N. Y.
Application August 20, 1936, Serial No. 96,981
7 Claims. (Cl. 200—59)



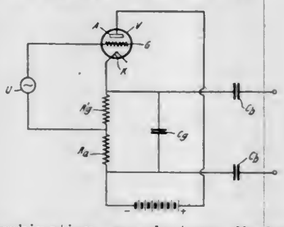
1. A combination steering wheel and signaling means for automobiles and the like, comprising, a rotatably mounted shaft, a steering wheel, universal mounting means intermediate said shaft and said steering wheel, said universal mounting means including means to maintain axial alignment of said shaft and said steering wheel, said universal mounting means comprising, a disc fixed to said shaft studs in said disc engaging orifices in a ring section of said steering wheel, bolts fixed to said disc, said bolts passing thru orifices in said ring section, springs mounted on said bolts, and a switch disposed to operate by universal movement of said steering wheel.

2,167,032
RAZOR
Octavius V. Rodrigues, Fairfield, Conn., assignor to Magazine Repeating Razor Company, New York, N. Y., a corporation of New Jersey
Application April 4, 1938, Serial No. 199,815
16 Claims. (Cl. 30—40)



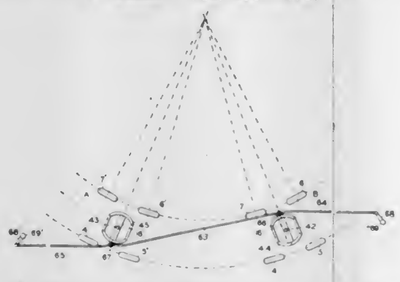
1. A razor comprising a shank, a blade platform supported by the shank, a guard, a blade holder supported by the blade platform and movable toward and away from the guard, and means for effecting back and forth movement of the blade holder, said means comprising a lever one arm of which has operating connection with the blade holder and the other arm of which is adapted for detachable connection with a blade magazine.

2,167,033
DEMODULATING DEVICE
Horst Rothe and Rudolf Urtel, Berlin, Germany, assignors to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application January 11, 1935, Serial No. 1,350
In Germany January 27, 1934
5 Claims. (Cl. 250—27)



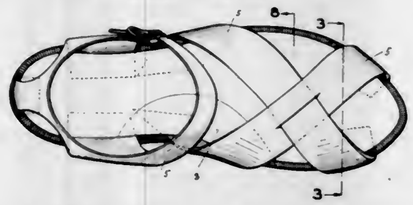
1. In combination, an electron discharge tube detector having a cathode, a grid and an anode, a grid circuit connecting said grid and cathode, an anode circuit connecting said anode and cathode, means for impressing modulated radio signal voltage variations on said grid, a resistor common to said grid and anode circuits, and a single condenser having its opposite sides directly connected to the ends of said resistor, said condenser having a lower impedance than said resistor to radio frequency currents but a substantially higher impedance than said resistor to currents of substantially the entire range of the modulation frequencies.

2,167,034
RAPID TRANSIT SYSTEM
Joseph B. Strauss, San Francisco, Calif.; Annette Strauss, John Sparks, and Henry C. Clausen executors of said Joseph B. Strauss, deceased
Application November 30, 1937, Serial No. 177,215
2 Claims. (Cl. 105—176)



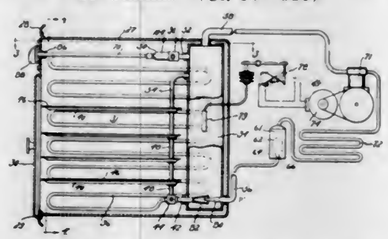
1. A plurality of vehicles coupled together in train formation, each vehicle having a body; vertical king-pins at each end of said bodies respectively; a pair of tandem trucks under each body each having a frame engaging said king-pins respectively; a draglink having its opposite ends pivoted to the right and left sides of said trucks respectively; a plurality of traction wheels mounted upon steering knuckles on said trucks respectively; steering pivots on said bodies adjacent and eccentric to each of said king-pins respectively; links engaging said pivots and extending to each of said steering knuckles respectively, whereby the supporting wheels are automatically steered by the lateral turning of the said body which they support; and means for swinging the front truck of the leading vehicle upon its respective king-pin.

2,167,035
RUBBER SOLE FOR SANDALS
Max Albert Westheimer, New York, N. Y.
Application October 22, 1938, Serial No. 236,371
2 Claims. (Cl. 36—11.5)



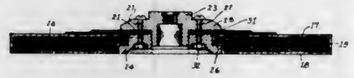
1. A rubber outsole for sandals comprising a heel and an arch support integral with said sole, recesses in the upper face of said sole for accommodating the ends of fastening straps, said recesses being of such a depth as to accommodate said straps in flush relationship with the top surface of said sole, holes for receiving hollow rivets passing vertically through said sole and into the said recesses, said rivets being adapted to be flattened out over the ends of the straps to be received in the recesses, an elevated marginal portion on said sole, a blank covering the inside surface of the sole and having its top face flush with the top face of said marginal portion, said marginal portion extending continuously around the sole, said sole thereby forming a ready-made mounting unit for the fastening straps and insuring the proper location of the arch support in relation to the heel and to the straps.

2,167,036
REFRIGERATING APPARATUS
Ralph E. Baker, Detroit, Mich., assignor to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application June 11, 1937, Serial No. 147,750
10 Claims. (Cl. 62—116)



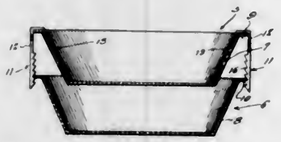
6. Refrigerating apparatus comprising, a cabinet having a food compartment and a freezing compartment, independent refrigerant evaporators in said compartments, a tank positioned in the freezing compartment with which tank said independent evaporators are associated in open communication for the flow of liquid refrigerant therebetween, means for withdrawing evaporated refrigerant from said evaporators to maintain the temperature of the evapoator in the freezing compartment below freezing and the evaporator in the food compartment periodically above and below freezing, means responsive solely to the temperature of the evaporator in the food compartment for varying simultaneously the effectiveness of both evaporators, and means for varying only the effectiveness of the evaporator in the food compartment without increasing the temperature of the other evaporator above the freezing point of water.

2,167,037
ABRASIVE SUPPORTING PAD
Raymond C. Benner, Charles E. Wooddell, and Charles S. Nelson, Niagara Falls, N. Y., assignors, by mesne assignments, to The Carborundum Company, Niagara Falls, N. Y., a corporation of Delaware
Application December 30, 1935, Serial No. 56,707
2 Claims. (Cl. 51—197)



1. A supporting pad of the character described comprising a plurality of felted fiber disks, a disk of vulcanized rubber, one of said fiber disks being arranged adjacent each face of said rubber disk, compressed into a disk-like body and a coating of rubber covering the entire surface of said body.

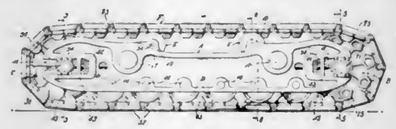
2,167,038
BAKING MOLD
James Damon, Middletown, N. Y.
Application December 3, 1938, Serial No. 243,861
1 Claim. (Cl. 53—6)



A baking mold comprising upper and lower pan-like forms, each form having its side walls sloping upwardly and outwardly and terminating in an outwardly extending horizontal flange, a plurality of strips connected with the inner side walls of the upper form passing upwardly and then outwardly over the flange of the upper form and then said strips extending downwardly below the bottom of the upper form, the inner edge of each downwardly extending portion having rack teeth thereon for engaging the outer edge of the flange of the lower form to adjustably hold the upper form on the lower form, said downwardly extending portion of each strip having a certain degree of flexibility to permit the rack portion to be moved into and out of engagement with the flange of the lower form.

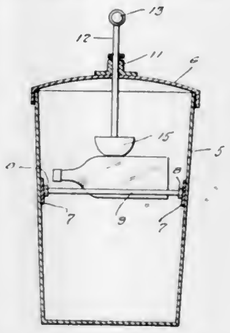
2,167,039
TRACTION DEVICE
Hilmer N. Ekbom, Chicago, Ill., assignor to Link-Belt Company, a corporation of Illinois
Application February 7, 1938, Serial No. 189,204
7 Claims. (Cl. 305—9)

5. In a traction device of the type described, an endless tread comprising a plurality of articulated shoes each of which is provided with a tread surface, a back surface or wall, and a pair of laterally spaced driving lugs projecting from the back surface or wall, said driving lugs being staggered in the direction of travel of the shoe to a sufficient extent to avoid such relative overlapping as would form a pocket between the same in which foreign matter might accumulate; and a driving sprocket wheel over which the endless tread is trained, said wheel comprising a hub, a web carried by the hub having a circumferentially continuous peripheral rim adapted to pass between the driving lugs of the shoes, and a series of driving teeth projecting laterally from each side of the web, the teeth on one side of the web being located circumferentially ahead of the



teeth on the other side so that said teeth will mesh with the staggered lugs of the tread shoes.

2,167,040
BOTTLE BREAKER
Lewis Samuel Farner, Harold Llewellyn Beals, and Adam Albert Haladik, New Kensington, Pa.
Application June 25, 1938, Serial No. 215,904
1 Claim. (Cl. 83—93)

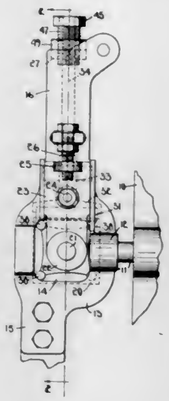


A device for breaking glass bottles and analogous containers comprising a bucket-like receptacle downwardly tapering, arcuate plates interiorly of the receptacle against the inner surface of the receptacle at diametrically opposite sides thereof, said plates being provided with sockets and shaped to conform with the curvature and taper of the inner surface of the receptacle to be supported by frictional contact therewith, bottle supporting rods having ends mounted in said sockets, said rods being arranged to support a bottle to be broken in a position parallel therewith, and a removable lid for the receptacle having a centrally disposed opening, a plunger rod movable vertically through the opening in the lid, and a flat bottomed anvil removably secured to the rod at one end of the latter and adapted, in response to reciprocatory movement of the rod to be brought into forceful contact with the bottle supported by said rods.

2,167,041
JACQUARD HAMMER
Herbert V. Foster, Providence, R. I., assignor to Crompton & Knowles Jacquard & Supply Company, Pawtucket, R. I., a corporation of Massachusetts
Application April 18, 1938, Serial No. 202,693
8 Claims. (Cl. 139—329)

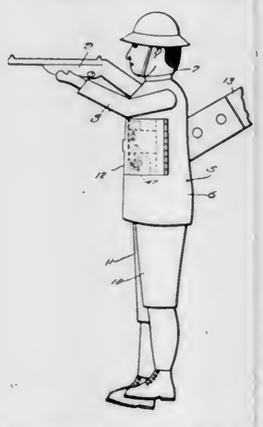
1. In a jacquard having a rotatable cylinder, a hammer to position the cylinder, a support for the hammer, a compression spring surrounding a portion of the hammer and exerting a pressure on said hammer tending to move the same toward the cylinder, and means threaded in the support and surrounding a portion of the hammer and

movable longitudinally of the hammer relatively to the support to different positions with respect



to the support to vary the pressure exerted by the spring on the hammer.

2,167,042
MECHANICAL WALKING SOLDIER WITH SHOOTING GUN
Malvina Geiser, St. Louis, Mo.
Application September 23, 1936, Serial No. 102,180
2 Claims. (Cl. 46—120)

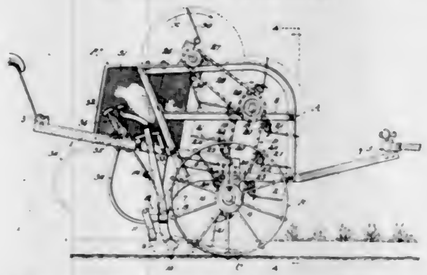


1. In a toy having the form of a human figure, a torso part, a handle extending rearwardly from the torso part for propelling the figure along the ground, a pair of legs adapted to be engaged with the ground, means to mount said legs on the torso part for alternate swinging movement rearwardly by engagement with the ground, and for independent lengthwise movement upwardly and downwardly relative to the torso part comprising axis members vertically slidable on said torso part, means operative by rearward swinging of one leg to swing the other leg forwardly and including a rocker, and means operative by said rocker to move the rearwardly swinging leg upwardly and the forwardly swinging leg downwardly simultaneously with such swinging thereof and including a lever pivoted intermediate its ends, a pair of rods operatively connecting opposite ends of said lever to said legs respectively, and detonator mechanism operative under control of said lever.

2,167,043
METHOD OF RECOVERING FATS, OILS, AND PROTEINS FROM ANIMAL AND VEGETABLE STARTING MATERIALS, AND MORE PARTICULARLY FROM WASTE PRODUCTS
Hans Haneschka, Vienna, Austria
No Drawing. Application November 23, 1937, Serial No. 176,062. In Austria November 17, 1936
4 Claims. (Cl. 87—13)

1. The herein described method for recovering fats and protein products from waste, refuse, garbage and other animal and vegetable starting materials containing fats and proteins, which method comprises the steps of admixing to the starting material an alkaline matter consisting of ammonia and an addition of primary ammonium phosphate, boiling the mixture by treating it with direct steam under pressure and simultaneous agitation until an aqueous protein broth is formed in which the fats derived from the starting material are emulsified, separating said broth with the emulsified fat from the residue of the starting material, and then separating the broth from the fats.

2,167,044
PEANUT HARVESTER
Albert E. Henderson, Albany, Ga., assignor, by mesne assignments, to Henderson, Inc.
Application December 4, 1936, Serial No. 114,242
12 Claims. (Cl. 55—134)

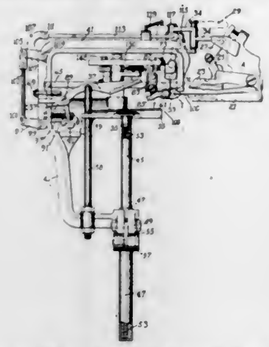


1. In a mobile peanut harvester, a plow; a moving conveyor equipped with plant-engaging and carrying fingers; and means mounting said conveyor in such position relative to the plow that the tips of certain of said fingers will pass over and contact said plow intermediate its ends and while so doing will travel below the normal ground level adjacent the plow.

2,167,045
STACKING MECHANISM
Frederick E. Hooper, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application July 27, 1937, Serial No. 155,972
11 Claims. (Cl. 214—6)

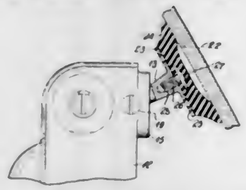
3. A machine of the class described having, in combination, an article carrier moving in a predetermined path, transferring mechanism for grasping the moving article and removing it from the carrier, said mechanism comprising grippers, mechanism for actuating the grippers including causing them to come to rest in open position in the path of an approaching article, and means

engaged by the article carrier for throwing said actuating mechanism into operation to cause the



grippers to close upon the article and remove it from the carrier.

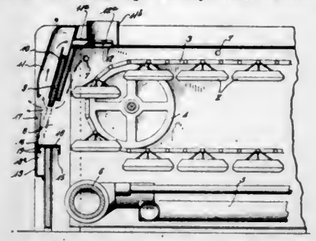
2,167,046
BRACKET
Walter E. Hull, Warren, Ohio
Original application April 6, 1936, Serial No. 72,895, now Patent No. 2,155,712, dated April 25, 1939. Divided and this application February 2, 1938, Serial No. 188,331
1 Claim. (Cl. 248—206)



A bracket comprising an arm member having means at one end thereof for connection with a part to be supported and a transverse plate portion at its other end, said arm member having a threaded hole extending axially thereof and opening through the outer face of said plate portion, a suction element adapted to be pressed into gripping engagement with a window or like support by said plate portion, and a screw having a head portion embedded in said suction element and a stem portion engaging in the threaded hole for connecting the suction element with said plate portion, said suction element being detachable from said plate portion by disengagement of the screw from said hole and said plate portion being adapted for direct connection with a support by screws or the like when the suction element has been detached.

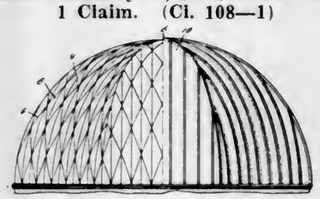
2,167,047
DOOR FOR BAKE OVENS
Paul Jackson and Arthur B. Cady, York, Pa., assignors to Read Machinery Company, Incorporated, York, Pa., a corporation of Pennsylvania
Application October 5, 1938, Serial No. 233,442
3 Claims. (Cl. 107—65)

1. The combination with a bake oven having a doorway extending between its interior and exterior and a door movable to open and close said doorway, of a source of fluid pressure and means associated with said source of fluid pressure and located adjacent the lower side of the doorway for directing a current of fluid in the form of a curtain upwardly and transversely of



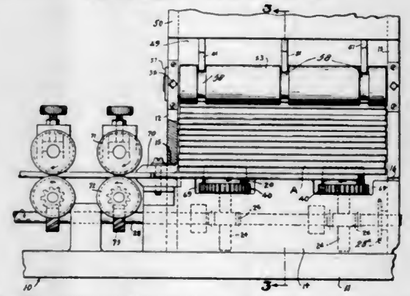
said doorway, said means being rendered operable by opening said door.

2,167,048
ROOF
Vicente L. Legarda, Manila, P. I.
Application February 24, 1938, Serial No. 192,401
1 Claim. (Cl. 108—1)



A roof construction comprising an outer frame, inwardly disposed runners converging to a midpoint, ribs between the runners and extending inwardly from the outer frame and being connected at their inner ends to the runners, said ribs being disposed in parallel relation with respect to each other, a covering for the ribs and runners, and brace means between the said ribs, said brace means consisting of diagonally extending brace members between each pair of ribs with their end portions in abutting relation with the ribs, the ends of the brace members of one pair of ribs terminating in the plane of the ends of the brace members of an adjoining pair of ribs and common connecting means for the ends of a pair of brace members at opposite sides of the rib, the extremities of adjoining brace members abutting to brace each other.

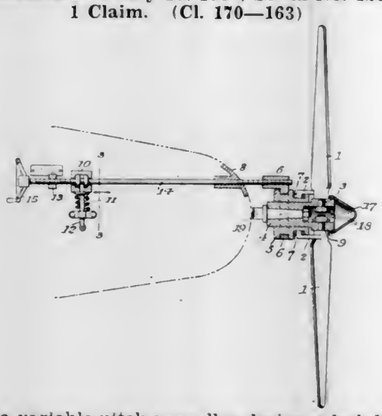
2,167,049
ARTICLE FEEDING APPARATUS
George A. Maurath, Cleveland, and Henry D. Leverett, East Cleveland, Ohio; said Leverett assignor to said Maurath
Application May 17, 1938, Serial No. 208,504
11 Claims. (Cl. 198—43)



1. In article feeding apparatus, means pro-

viding a chute adapted to contain a series of articles to be fed, a pair of feed rolls adapted to receive articles therebetween from said chute, at least one of said rolls being tapered to cause the lowermost article of the series to be gripped therebetween, and means for driving said rolls for delivering the articles therefrom in succession.

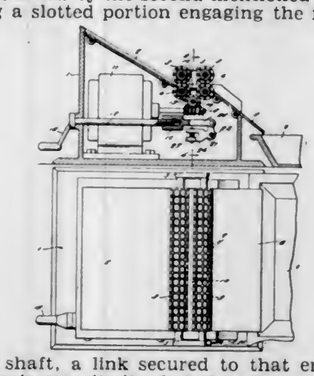
2,167,050
AIRCRAFT PROPELLER
James V. Mohler, Oelwein, Iowa, assignor of seventeen and five-tenths per cent to Hyman Levy, Oelwein, Iowa, seventeen and five-tenths per cent to Milford E. McClain, seven and five-tenths per cent to Weston E. Jones, and seven and five-tenths per cent to Glenn W. Till, all of Charles City, Iowa
Application February 18, 1937, Serial No. 126,494
1 Claim. (Cl. 170—163)



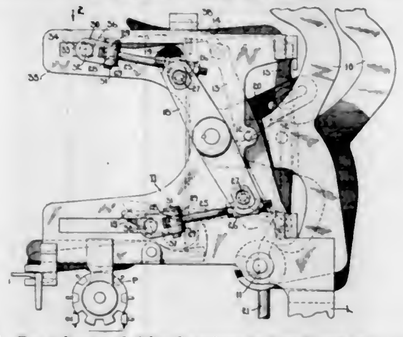
In a variable pitch propeller device, a hub having a rear portion of cylindrical exterior form and having an axial bore extending forwardly from its rear end and taperingly contracted from rear to front, said hub having a forward portion of generally cylindrical form exteriorly and having diametrically disposed flat portions, said hub having a forward recess conforming in shape to the exterior of the forward hub portion, the rear end of said recess having the bore opening thereinto and forming a shoulder around the opening, a drive shaft having its forward end fitting in said bore and projecting into said recess, a nut on the projecting end seated on said shoulder, said hub having openings extending radially through the flattened portions, a pair of blades having shanks fitting rotatably in said last openings and projecting into the recess, nuts on said shanks in said recess, said forward and rear portions of the hub having a reawardly facing stop shoulder at their junction, a sleeve slidably mounted on the rear portion of the hub, said sleeve having a peripheral groove adjacent its forward end, arms each fixed on a blade and projecting over the front of the sleeve, each arm having a trunnion on its free end extending into said groove, rollers on said trunnions, a second groove extending peripherally around said sleeve, and shifting means engaging in said second groove.

2,167,051
MACHINE TO CUBE STEAKS
Alexander Motrinec, Maplewood, N. J.
Application October 28, 1937, Serial No. 171,554
1 Claim. (Cl. 17—26)

A device of the class described comprising a casing having certain areas of its upper surface inclined on opposite sides of a horizontal part thereof, a lower pair of rollers journaled in the casing and extending through slots in the horizontal part of the upper surface of the casing, an upper pair of rollers disposed above the lower rollers, T-shaped members supporting the upper rollers and extending adjacent the base of the casing on opposite sides thereof, guides formed on the sides of the casing for slidably receiving the lower portions of the T-shaped members, a vertically slidable shaft extending through the sides of the casing with their extremities secured to the lower portions of the T-shaped members, another shaft journaled in the sides of the casing adjacent the first mentioned shaft, a bell-crank carried by the second mentioned shaft and having a slotted portion engaging the first mentioned shaft, a link secured to that end of the bell crank opposite its slotted portion and having its free end apertured and threaded, a shaft extending through the casing and having its inner end threadedly engaged in the threaded aperture of the link, a crank handle on the outer end of the last mentioned shaft with its inner end bearing against the casing, a rotatable shaft journaled in the sides of the casing in close proximity to the surfaces of the lower rollers, frictional member carried by said shaft and simultaneously engaging the lower rollers, a motor secured within the casing, a shaft extending from the motor, power transmitting means connecting the rotatable shaft with the motor shaft and an indicating pointer secured to one end of the second mentioned shaft.

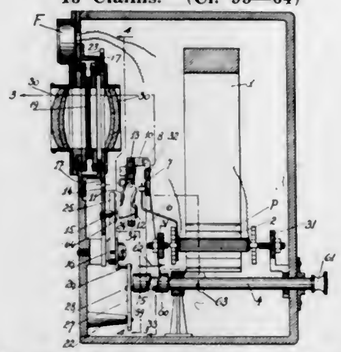


2,167,052
DOBBY KNIFE GUIDE
Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts
Application September 24, 1937, Serial No. 165,545
5 Claims. (Cl. 139—67)



1. In a loom dobby having spaced substantially parallel guides, a set of hooks, a knife for said hooks, means to move said knife in a direction parallel to said guides and at the same time move said knife angularly with respect to the hooks, and means on the knife presenting arcuate surfaces between the guides to engage the latter during motion of the knife in said direction parallel to the hooks to prevent substantial end motion of said knife in a direction transverse of the hooks, the arcuate surfaces lying on a circle the diameter of which is substantially equal to the space between said guides.

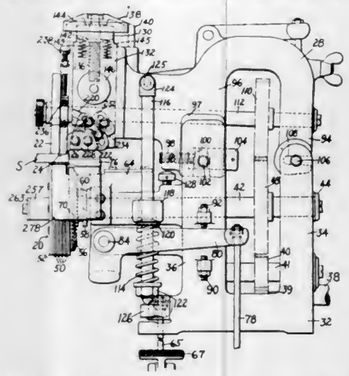
2,167,053
PHOTOGRAPHIC CAMERA BUILT INTEGRAL WITH AN ELECTRIC EXPOSURE METER
Ödön Riszdorfer, Budapest, Hungary
Application March 5, 1937, Serial No. 129,252
In Hungary March 7, 1936
13 Claims. (Cl. 95—64)



11. A photographic camera including a lens and means for automatically regulating the amount of light passing through said lens in accordance with the light values of the object to be photographed, a light sensitive device having an indicator movable in a definite path by variations in said light values, means for adjusting said regulating means, a plurality of independently movable stops individually movable into position for limiting the adjustment of said regulating means, said stops being spaced adjacent the path of said indicator, means cooperating with said indicator for moving a stop corresponding to the position of the indicator and drive means for actuating said adjusting means and at the same time actuating said stop moving means.

2,167,054
SOLE-FITTING MACHINE
Arthur Alan Rivington, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 15, 1937, Serial No. 174,578
In Great Britain November 26, 1936
8 Claims. (Cl. 12½—27)

1. A sole fitting machine comprising a tool for operating upon a sole, a feed wheel for supporting the sole and feeding the sole past said tool, a driven shaft upon which said feed wheel is slidably keyed, a rotary edge gage for positioning the sole relatively to said tool, a driving connection between the feed wheel and the edge gage for rotating the edge gage in a direction to assist in feeding the work, a guide in which said edge gage is mounted for movement in a direction parallel to said shaft, a connection between said edge gage and said feed wheel for causing the edge gage and the feed wheel to be moved together in a direction parallel to the feed wheel shaft, a spring acting upon said edge gage to urge said edge gage and said feed wheel as a unit in a direction parallel to the feed wheel shaft to a stop position, and means for moving said edge gage and said feed wheel as a unit away from said stop position, said means including an operator-controlled lever connected with the edge gage for moving the edge gage and feed wheel away from said stop position against the force of said spring.



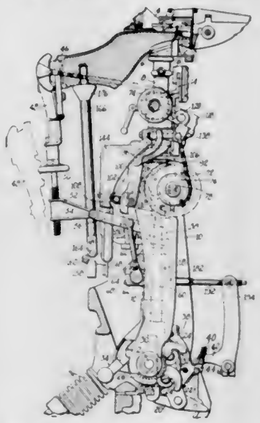
2,167,055
FOUNTAIN
Edwin G. Trowbridge, Phoenix, N. Y.
Application October 11, 1937, Serial No. 168,495
11 Claims. (Cl. 299—67)



8. A fountain head of the class described, comprising an elongated axially-open tubular member adapted to be fixedly mounted in a substantially vertical position to direct the water received thereby upwardly therethrough, a fixed stem extending axially upwardly through the tubular member aforesaid and projecting substantially above the upper end of the latter, a sleeve rotatably mounted on said stem, a screw received in the upper end of said sleeve and adjustable in an axial direction relatively thereto, with its lower extremity supporting the weight of the sleeve upon the upper extremity of said stem, and a ball-bearing interposed between the lower end of said screw and the upper end of said stem, a second tubular member fixedly mounted on said sleeve and disposed above the first mentioned tubular member in axially spaced relation thereto to form a space therebetween constituting a

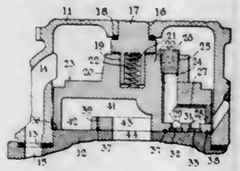
passage through which the water is adapted to be discharged laterally and downwardly in the form of a dome-like thin continuous sheet, and means for imparting rotation to said sleeve and consequently to said upper tubular member.

2,167,056
SHOE MACHINE
William Thomas Buckingham Roberts, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application September 7, 1938, Serial No. 228,807
In Great Britain November 4, 1937
19 Claims. (Cl. 12—127)



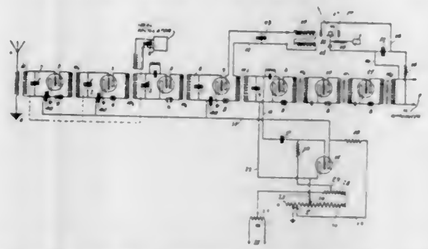
1. In a shoe machine, the combination with means for operating on a shoe mounted on a last, of a heel rest arranged to abut against the heel end of the shoe when in operative position, mechanism arranged to act automatically when released to move the heel rest lengthwise of the shoe into such abutting relation to the shoe, means for initially restraining said mechanism from acting and for thereafter releasing it to cause it to act, and additional mechanism for forcing the heel rest more firmly against the shoe after it has been applied to the shoe by said first-named mechanism.

2,167,057
AIR BRAKE
Lewis A. Safford, Watertown, N. Y., assignor to The New York Air Brake Company, a corporation of New Jersey
Application June 20, 1938, Serial No. 214,827
10 Claims. (Cl. 303—56)



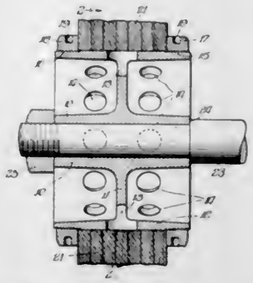
1. Lubricating means for the valves of air brakes and like devices comprising in combination a ported valve seat; a ported valve shiftably seated thereon; means for subjecting said valve on its back or unseated face to supply pressure, and for subjecting a portion of the valve substantially at the center of its seated area and within the effective ported area of the valve and seat to a lower pressure; an oil reservoir open at its top to supply air pressure; oil feeding connections from the lower portion of said reservoir to the mating surfaces of the valve and seat comprising at least one porous metal insert forming a portion of one of said surfaces, and means for subjecting the lower portion of said insert to said lower pressure.

2,167,058
AUTOMATIC VOLUME CONTROL
Arthur F. Van Dyck, Yonkers, and Alfred N. Goldsmith, New York, N. Y., assignors to Radio Corporation of America, a corporation of Delaware
Application July 7, 1930, Serial No. 465,852
16 Claims. (Cl. 250—20)



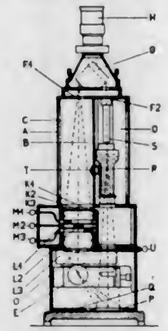
13. In a signal receiving system of the type comprising means responsive to change in the strength of a received signal for automatic volume control, tuning and demodulating means, background noise suppressing means and means whereby the background suppressing means is controlled from the automatic volume control means.

2,167,059
BUFFING WHEEL
John F. White, Bloomington, Ill.
Application August 12, 1938, Serial No. 224,598
5 Claims. (Cl. 51—193)



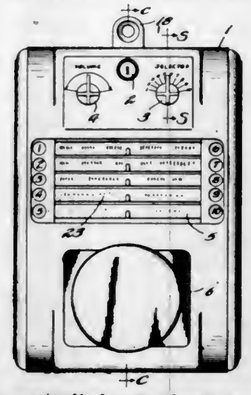
1. In a buffing-wheel mounting, the combination of a member having a hub adapted to be applied on the shaft designed to rotate the wheel, a substantially-central circumferential web outstanding from said hub, and a cylindrical main body-portion supported on the outer part of said web in outwardly spaced relation to said hub, said hub having an outstanding flange at one end and an external screw-thread at its other end, a screw-threaded collar adapted to cooperate with said screw-threaded end and to clamp between said flange and collar a series of concentric open-center fabric buffing-elements, having outwardly-directed ventilating-passages at the inner portions of their sides, the middle part of said body-portion having a row of openings therethrough arranged to communicate with the ventilating-passages of said buffing-elements and opening at both sides of said web, whereby said connected openings and passages afford conduits for the flow of cooling air therethrough to prevent overheating of said buffing-elements by flowing outwardly between them.

2,167,060
COLORIMETER
Friedrich Assmus, Freiburg, Breisgau, Germany, assignor to F. Hellige & Co., Freiburg, Breisgau, Germany
Application December 1, 1936, Serial No. 113,635
In Germany January 2, 1936
1 Claim. (Cl. 88—14)



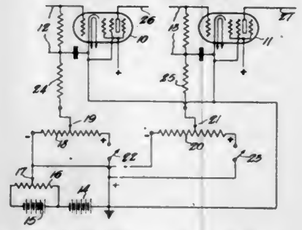
A colorimeter comprising in combination a casing, a partition subdividing said casing into a light-mixing compartment and a test compartment arranged in parallel relation, two screens of translucent material at one end of said casing, one screen coaxial to each of said compartments, a plano-convex lens at the other end of said mixing compartment, a source of light arranged in the axis of said mixing compartment on the side of said lens remote from said screen, a filter arranged in said mixing compartment between said lens and said screen and comprising three sector-shaped filtering members arranged in a circle in equidistant relation and colored respectively in one of the three primary colors, three rotary diaphragms arranged in said mixing compartment between said filter and said lens, each diaphragm shiftable within the range of one of said filter members, a handle projecting radially from the periphery of each of said diaphragms, the three handles arranged in superposed relation and each adapted to turn the corresponding diaphragm about the axis of said mixing compartment to vary the exposed area of and consequently the passage of light through its associated filter member, scales one in the range of movement of each of said handles to indicate the positions of each of the diaphragms, means in the test compartment for supporting the object to be tested, a reflector arranged in the axis of said test compartment outside the end remote from the translucent screen and adapted to reflect light rays from said source of light on to the object in said testing compartment, an ocular arranged on said casing in a plane intermediate said screens and on the outer side thereof; and optical means for deflecting into said ocular in optical juxtaposition the light projected through the two screens.

2,167,061
REMOTE CONTROL DEVICE
Lloyd J. Andres, Chicago, Ill.
Application June 24, 1938, Serial No. 215,653
2 Claims. (Cl. 179—6.3)



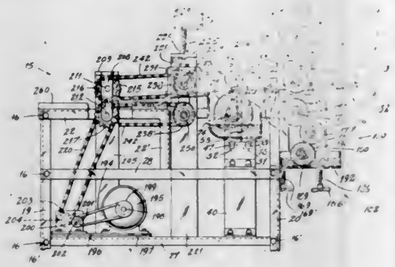
1. A coin controlled reproducer system for selectively playing and selectively delivering at remote stations a selected record from a repertoire comprising, in combination, a reproducer and selective record changer, a plurality of individual isolated coin controlled selective sound distributors and controllers adapted to initiate the selection of any of said records, circuits to electrically deliver, isolate, and control said rendition at the place of said isolated initiation, said isolated sound distributor and controller comprising a selector means, a coin controlled initiating mechanism, a loud speaker, a circuit network connecting said isolated selective distributors and controllers with the responsive circuits of said reproducer and record changer, and a series circuit in the coin controlled selective distributor connecting the said selector means and the coin operated mechanism.

2,167,062
ELECTRICAL CONTROL CIRCUIT
Herbert Belar, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application December 24, 1937, Serial No. 181,588
6 Claims. (Cl. 179—1)



1. The combination of a plurality of signal channels, a single signal channel provided with an input circuit, impedance means interposed between the outputs of said plurality of channels for preventing interaction therebetween and for applying to said input circuit a control potential dependent on the combined outputs of said plurality of channels, means for independently adjusting the gain of said plurality of channels and of said single channel, and means for simultaneously adjusting the gain of all of said channels.

2,167,063
PAINTING MACHINE
Samuel Brand, Clayton, Mo.
Application November 24, 1937, Serial No. 176,163
7 Claims. (Cl. 91—50)

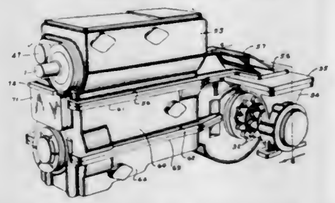


1. In a device of the kind described, a support, mechanism for coating the edges of elongated pieces of material including spaced coating rollers and associated paint supply discs, mechanism for coating the tops and bottoms of such pieces including a pair of spaced coating rollers and a plurality of paint supply rollers, and means for positively driving each roller and each disc.

2,167,064
LUBRICANT
Melvin A. Dietrich, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 2, 1936, Serial No. 83,075
21 Claims. (Cl. 87—9)

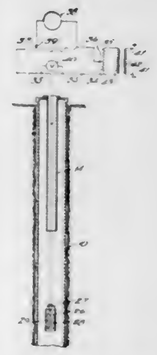
1. A composition of matter comprising a lubricating oil having incorporated therein about 0.2 to about 30% of a polymerized aliphatic hydrocarbon product having a molecular weight of at least 800 and from about 5 to about 50% of a hydrogenated condensed ring compound devoid of acidic substituents.

2,167,065
TRANSMISSION CASING FOR INTERNAL COMBUSTION ENGINE LOCOMOTIVES
William F. Eckert, Ridley Park, Pa.
Original application November 28, 1936, Serial No. 113,126. Divided and this application May 27, 1938, Serial No. 210,439
7 Claims. (Cl. 74—606)



1. A gear transmission comprising, in combination, a driving shaft, an intermediate shaft, a third shaft and a transverse bevel gear jackshaft, gearing connecting said shafts for driving the same, and a gear case having lower, intermediate and upper sections separable along planes substantially containing the axes of said intermediate and third shafts, said lower and intermediate sections having a rearwardly projecting portion which provides a housing for said jackshaft and bevel gear thereon, and the upper section having a rearwardly projecting cover for said bevel gear housing.

2,167,066
LOCATING WATER STRATA IN OIL WELLS
Daniel Walter Elliott, Long Beach, Calif., assignor, by mesne assignments, to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application March 20, 1935, Serial No. 12,100
Renewed July 5, 1938
22 Claims. (Cl. 175—183)



1. In an electrical device for determining the relative proportions of droplets of substantially immiscible conductive and non-conductive fluids in a column within a well bore: of a pair of electrodes having proximal serrated edges; means for positioning said pair of electrodes at various levels in said column; an electric circuit having its ends connected to said electrodes; and means for measuring variations of current in said circuit.

2,167,067
CHEMICAL PROCESS
Ivan Gubelmann, Wilmington, Del., and Louis Spiegler, Woodbury, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application September 17, 1937, Serial No. 164,324
4 Claims. (Cl. 260—683)

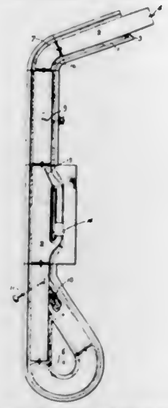
1. The process of preparing olefins which comprises reacting a diene-yne of the general formula

$$R-CH=\underset{\displaystyle R'}{\underset{|}{C}}-C\equiv C-\underset{\displaystyle R^2}{\underset{|}{C}}=CH-R^3$$

in which R, R', R^2 and R^3 are hydrogen atoms or alkyl radicals having less than 6 carbon atoms and in which at least one of the R's is an alkyl radical, with an excess of hydrogen in the presence of a catalytic amount of active nickel until the reaction practically ceases.

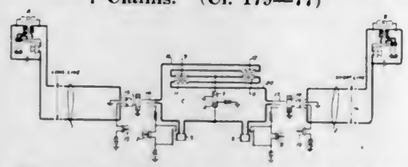
2,167,068
TOY APPARATUS
Arthur Gueydan, Lausanne, Vaud, Switzerland
Application February 26, 1938, Serial No. 192,758
In Switzerland March 7, 1937
7 Claims. (Cl. 46—201)

1. Toy apparatus comprising a vibratable band stretched between borders provided on a supporting base and vehicles fitted with brushes or



the equivalent engaging said band, to be moved thereon.

2,167,069
TRANSMISSION SYSTEM
Clair W. Halligan, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 1, 1937, Serial No. 140,133
7 Claims. (Cl. 179—77)



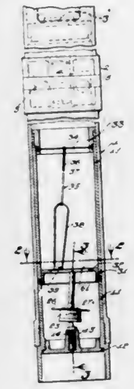
1. The combination in a communication system of a pair of lines having different resistance values, a connecting circuit for interconnecting said lines for communication, separate current-supply circuits for said lines, each supply circuit including the corresponding line and conductors of said connecting circuit, and a variable-resistance element in one of said supply circuits responsive to the current flowing in the other supply circuit to compensate for the difference in the resistances of said lines.

2,167,070
PROCESS FOR PREPARING LEUCO QUINIZARINE
Emeric Havas, Pitman, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 3, 1938, Serial No. 222,836
2 Claims. (Cl. 260—383)

1. The process for preparing leuco quinizarine which comprises suspending quinizarine in an aqueous alkali metal carbonate solution and effecting reduction of the quinizarine with an alkali metal hydrosulfite, sufficient hydrosulfite being employed in the solution to reduce all of the quinizarine to leuco quinizarine.

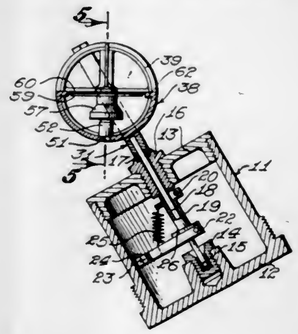
2,167,071
WELL SURVEYING INSTRUMENT
Ralph E. Hendrickson, Fullerton, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application August 3, 1937, Serial No. 157,180
16 Claims. (Cl. 33—205.5)

5. In a well surveying instrument: a compass structure; an upstanding inclinometer carried thereby; and a depending plumb bob having a free end in proximity to the free end of said upstanding inclinometer.



9. In a well surveying instrument: a compass element; a journal therefor; an upstanding inclinometer centered on said compass element; and counterbalance means depending from said compass element below its point of support tending to maintain said inclinometer vertical and said compass horizontal.

2,167,072
WELL SURVEYING DEVICE
Ralph E. Hendrickson, Fullerton, Calif., assignor to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application September 27, 1937, Serial No. 165,917
5 Claims. (Cl. 33—205.5)



1. A well surveying device comprising: a cylindrical inclination element having an eccentric mass; means for journaling said element about its longitudinal axis; other means journaling said element about a second axis at right angles thereto; inclination scale extending circumferentially on said element; reference means journaled with said element by said other journal means for cooperation with said inclination scale; a pivot carried by said inclination element tending to maintain a vertical position; an upstanding plumb bob mounted on said pivot; and indicia on said inclination element coacting with said plumb bob for checking the accuracy of said inclination element.

2,167,073
ALKYLENE OXIDE-TANNIC ACID REACTION PRODUCT
Karl M. Herstein, Brooklyn, N. Y., assignor, by mesne assignments, to Skol Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application February 12, 1937, Serial No. 125,379
12 Claims. (Cl. 260—47)

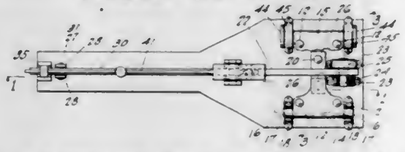
7. A method of making a new chemical compound which comprises introducing an alkylene oxide selected from the class which consists of ethylene and propylene oxides into a solution of tannic acid maintained at a temperature of approximately between 0° C. and 10° C., permitting the reaction to go to completion, and removing the impurities from the reaction mass.

2,167,074
GAME DEVICE
Roy E. Hilker, Los Angeles, Calif.
Application November 13, 1937, Serial No. 174,381
7 Claims. (Cl. 273—146)



1. A game device of the character described which comprises a generally cube-like die formed by three equal sized regular plates intersecting at substantially right angles to one another forming eight equal quadrants, each quadrant being provided with a facet angularly disposed with respect to the faces of the wings formed by said intersecting plates.

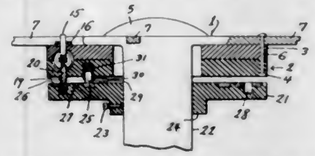
2,167,075
COMPOUNDING SYSTEM AND SUSPENSION FOR WEIGHING AND TESTING MACHINES
Ivan H. Hobson, Oakland, and Clyde A. Britton, Alameda, Calif.
Application December 17, 1937. Serial No. 180,354
7 Claims. (Cl. 265—71)



1. In a weighing device; a platform; a pair of opposed load levers having each a pivot projecting from each side at one end and a mounting for each pivot; a ball for each corner of each side of the platform and transmitting the thrust of the respective sides of said platform to the respective levers at points intermediate the ends thereof; the other ends of said levers simultaneously cooperating with the main compounding lever of the weighing device for transmission of the weight thrust to a scale beam.

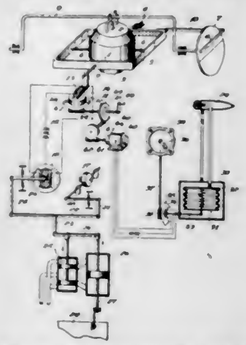
2,167,076
SIGNALING APPARATUS
Byron M. Kay, Tulsa, Okla.
Application January 18, 1938, Serial No. 185,600
2 Claims. (Cl. 200—59)

1. A switch mechanism for use on the steering wheel and steering post of an automobile and for selectively energizing the right and left signal lights of the automobile, comprising an annular housing adapted to be attached to said wheel in surrounding relation to said post, a manipulative plunger in said housing settable endwise therein in opposite directions from a neutral position to energize said right and left lights, respectively, a pair of contacts in said housing at each



end of said plunger closed by the latter in the opposite settings thereof, respectively, and means to return said plunger to neutral position adapted for attachment to said post and operative under turning of said wheel in opposite directions, respectively.

2,167,077
CONTROL APPARATUS FOR AIRPLANES
Paul Eduard Köster, Berlin-Siemensstadt, Germany, assignor to Siemens Apparate und Maschinen G. m. b. H., a corporation of Germany
Application November 3, 1936, Serial No. 108,985
In Germany November 7, 1935
5 Claims. (Cl. 244—76)

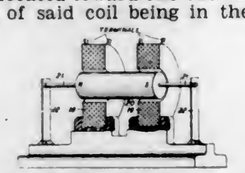


1. Apparatus for controlling the speed and position of an aircraft, comprising an elevator, a servo-motor for actuating said elevator, means responsive to the longitudinal inclination of said craft, means responsive to the rate of inclination of said craft, means responsive to the speed of said craft, and a two part control device for controlling said servo-motor, one of said parts being actuated by said inclination responsive device and the other part being controlled by said speed responsive device, said rate responsive device differentially cooperating with said two part control to regulate said servo-motor.

2,167,078
ELECTROMECHANICAL SYSTEM
Emory Lakatos, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 5, 1937, Serial No. 172,915
11 Claims. (Cl. 178—44)

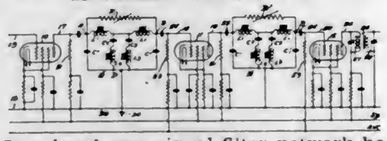
1. In combination, a permanently magnetized rod, a spring support therefor, said support permitting oscillation of said rod along its longitudinal axis, an electrical coil concentric with and mechanically free of said rod, the length of said coil being one-third the length of said rod, said

coil being located toward one end of said rod, the outer end of said coil being in the same plane



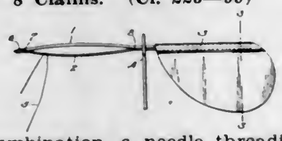
as the near end of said rod when said rod is in its position of rest.

2,167,079
BAND PASS FILTER
Vernon D. Landon, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application November 28, 1936, Serial No. 113,157
13 Claims. (Cl. 178—44)



1. In a band pass signal filter network having at least two branches, the combination of a pair of dissipative resonant circuits in one branch of the network providing two frequency points of high signal attenuation on opposite sides of the pass band of the filter, and a single resistor having substantially no frequency characteristic connected in another branch of the network to improve the attenuation at both of said frequency points, said resistor having a resistance value such that the effective resistance of each of said resonant circuits is thereby reduced to a minimum value.

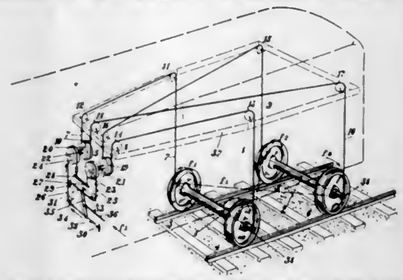
2,167,080
NEEDLE THREADER
William S. Mason, Washington, D. C.
Application May 26, 1936, Serial No. 81,950
8 Claims. (Cl. 223—99)



1. In combination, a needle threading device comprising a resilient metal body provided with an entering end and a butt end, said body being divided inwardly of said entering end to form adjoining spaced arms, one of said arms being stiff and of larger diameter than the adjoining arm, and a handle joined to the butt end of the device.

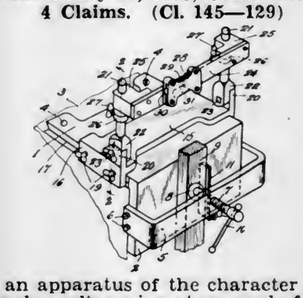
2,167,081
DEVICE FOR THE CONTINUOUS DETERMINATION AND RECORDING OF THE CANT OF A RAILWAY TRACK
André Ernest Mauzin, Fontenay-aux-Roses, France
Application January 15, 1937, Serial No. 120,820
In France August 3, 1934
5 Claims. (Cl. 33—145)

1. Device for the continuous determination and recording of the cant of a railway line, comprising a vehicle adapted to travel on said railway line, said vehicle having two adjacent axles capable of assuming various independent inclinations each in a vertical plane perpendicular to the longitudinal axis of the track, means connected to the axles of said vehicle for determining, on the said vehicle, the relative angular variation existing between the axes of the two axles in the said planes perpendicular to the longitudinal axis of the track, a mechanical receiver member on the vehicle, said receiver being subjected to the action of said means and displaced thereby as a function of the angular variation between the



two axles which determines the warp of the track, means connected to and cooperating with said receiver member for transforming the displacements of said member proportional to the instantaneous angular variations of the axes of the axles relatively to each other into displacements proportional to the value of the corresponding cant, and means cooperating with the transforming means for the graphical inscription of said displacements.

2,167,082
TENON CUTTER
Anthony W. Morris, Spokane, Wash.
Application May 25, 1938, Serial No. 210,026
4 Claims. (Cl. 145—129)

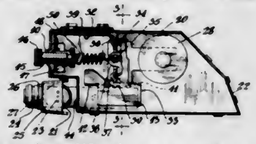


2. In an apparatus of the character described, a base, a depending wing at one end of said base, a yoke carried by said wing and projecting outwardly therefrom, a clamp carried by said yoke for holding work firmly against said wing, a guide strip extending vertically against said wing and adjustable transversely thereof into position for engaging the side edge face of work of a predetermined width, a carrier shiftable along said base toward and away from said wing, and means carried by said carrier for supporting an implement over said work.

2,167,083
ELECTRIC METER
Marvin E. Nulsen and Lawrence R. Goetz, Indianapolis, Ind., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application April 30, 1936, Serial No. 77,106
11 Claims. (Cl. 171—95)

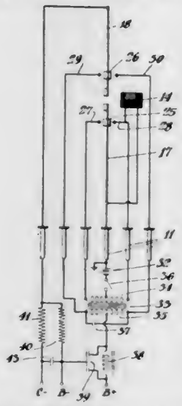
10. An electric meter comprising an armature member, a support member therefor, said arma-

ture member being pivoted on said support member, a helical spring attached at one end to said armature member and at the other end to said support member and having its axial line at a



substantial angle with the axis about which said armature member is pivoted, and means for applying a variable tensioning force to said spring.

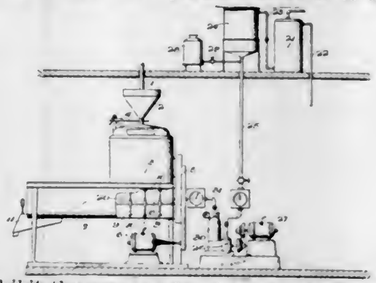
2,167,084
ELECTRIC POTENTIAL CONVERTER AND CIRCUITS THEREFOR
Marvin E. Nulsen, Indianapolis, Ind., and Donald H. Mitchell, Chicago, Ill., assignors to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware
Application October 24, 1936, Serial No. 107,358
10 Claims. (Cl. 171—97)



1. An electric current converter system comprising a primary circuit including a primary transformer winding, a direct current source arranged so as to supply current to said primary winding and interrupter means arranged so as to produce variations in the current flowing in said winding, a secondary circuit conductively isolated from said primary circuit and including a secondary transformer winding arranged in inductive relation with said primary winding, output terminals fed by said secondary winding, interrupter means between said secondary winding and said output terminals, actuating means to operate said primary and secondary interrupter means in unison whereby said primary interrupter means will produce periodic variations in the current flowing in said primary winding and said secondary interrupter means will simultaneously rectify the current produced in said secondary circuit, and voltage dividing means in said output circuit to provide different potentials on at least three output terminals.

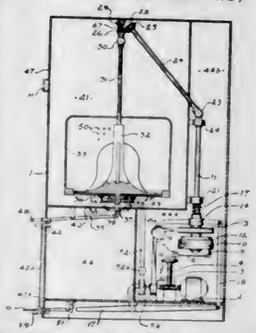
2,167,085
METHOD OF TREATING COFFEE
Charles E. Page, Los Angeles, Calif.
Application April 5, 1937, Serial No. 135,110
2 Claims. (Cl. 99—152)

1. A method of treating coffee which consists in impregnating roasted and ground coffee with water in sufficient quantity to cause the ligneous material of the coffee particles to swell to there-



by inhibit the escape of moisture and oils therefrom but in insufficient quantity to effect any brewing or extraction of the coffee.

2,167,086
WASHING APPARATUS
Herbert E. Page, Syracuse, N. Y.
Application April 5, 1937, Serial No. 135,050
4 Claims. (Cl. 68—23)

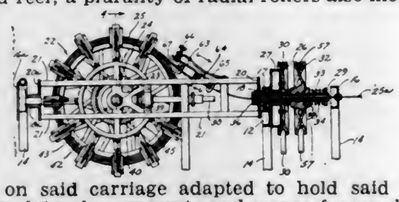


1. In a washing apparatus, a casing having a compartment for receiving a washing liquid, a clothes container in the compartment, an agitator extending into the container, the container and the agitator being mounted to move about a common axis, actuating means including a motor, motion transmitting means between the motor and the agitator and interchangeable operable to transmit oscillating and rotary movement to the agitator, means for controlling the operation of the motion transmitting means, means operable to clutch the agitator and the container together, whereby the container moves about an axis, as a unit, with the agitator, and also operable, so that the container is held stationary during the movement of the agitator, and a drain valve for the compartment operable by the last means to closed position, when the last means is operated to hold the container stationary.

2,167,087
PIPE CLEANING APPARATUS
Roy T. Quick, Los Angeles, Calif., assignor to George H. Werfelman, Los Angeles, Calif.
Application July 31, 1937, Serial No. 156,686
8 Claims. (Cl. 242—54)

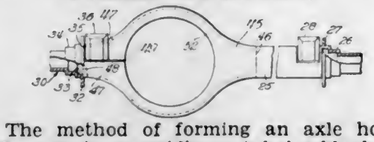
1. In pipe cleaning apparatus the combination of: a frame; a carriage revolubly mounted in said frame; a wire receiving reel rotatably mounted in said carriage with its axis of rotation substantially at right angles to that of said carriage;

a plurality of transverse rollers mounted on said carriage adapted to press said wire on the rim of said reel; a plurality of radial rollers also mount-



ed on said carriage adapted to hold said wire from lateral movement; and means for revolving said carriage and independently rotating said reel therein.

2,167,088
AXLE HOUSING AND METHOD OF MAKING SAME
Walter E. Schirmer, Chicago, Ill., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application March 5, 1937, Serial No. 129,156
5 Claims. (Cl. 29—153.1)



1. The method of forming an axle housing which comprises providing a tubular blank, subjecting said blank to a series of drawing operations to form a central frusto-conical throat portion and complementary half-throat portions at the ends of the blank, rolling the formed blank into a hoop to bring said complementary portions together to form a second throat portion extending oppositely to said first throat portion, and securing axle arms to the throat portions thus formed.

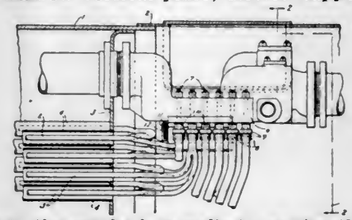
2,167,089
HAIRSPRING REMOVER FOR WATCHES AND THE LIKE
William V. Seward, Crescent City, Calif.
Application September 29, 1937, Serial No. 166,405
1 Claim. (Cl. 81—6)



A tool for removing hair springs having a looped end anchored in a notched collet comprising a cylindrical knurled hand-grip provided at one end thereof with a long slender extension tapered to a point to fit into said notch with a wedging action and provided with fine threads extending to said point for gripping the side edges of said notch.

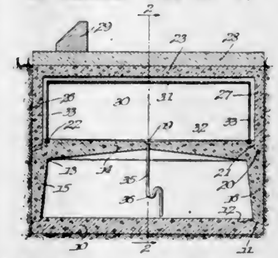
2,167,090
LOCOMOTIVE SUPERHEATER
William Shane, Paterson, N. J., assignor to The Superheater Company, New York, N. Y.
Application June 26, 1937, Serial No. 150,454
1 Claim. (Cl. 122—462)

In a locomotive equipped with a superheater of the type in which tubular elements extend into the flues and have their ends secured to a header located in the smoke box above the outlets of the flues in a position such that cinders carried by gases issuing from the flues travel in a direction toward the ends of the elements and the means securing them to the header; a shield placed adjacent to the bottom of the header and between the element ends and the flues so as to prevent impingement of cinders against the element ends and the means whereby they are secured to the header, the shield comprising a narrow vertical plate; slotted supports se-



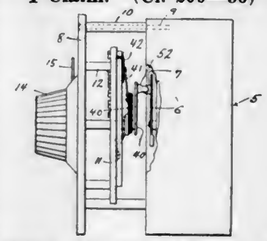
cured to the smoke box walls to receive the ends of the shield, the smoke box wall being slotted opposite one end of the shield whereby the shield can be readily withdrawn; and a cover to close said smoke box wall slot.

2,167,091
BURIAL VAULT
Robert Simpson, Casper, Wyo.
Application February 17, 1938, Serial No. 191,102
15 Claims. (Cl. 72—7)



1. A burial vault construction comprising, in combination, a foundation slab, a base comprising a top wall and side and end walls supported along the margins of said slab and providing a hollow, downwardly opening chamber above said slab, a casket receiving chamber above the top wall of the base comprised of side and end walls aligned with the corresponding walls of the base and projecting upwardly therefrom and a top wall supported thereby, and a preformed, unitary sheet metal inner casing within said chamber comprising a top wall and side and end walls hermetically sealed along their meeting joints and having an open bottom.

2,167,092
MAXIMUM SPEED INDICATOR
George H. Thomas, Wayne, Mich.
Application May 11, 1937, Serial No. 142,012
1 Claim. (Cl. 200—56)



A switching attachment for speedometers wherein the speedometer is provided with a case;

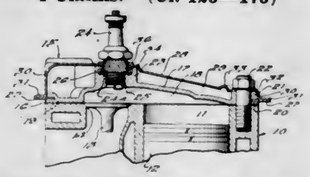
a panel, a plate of insulation supported on the back side of the panel and in spaced relation thereto, an arcuate arrangement of contacts on the plate, a shaft journaled through the plate and panel, a contact arm carried by the shaft and having a lug disposed in the path of the speedometer indicating hand and means for detachably connecting the panel to the speedometer case, the forward end of the shaft being provided with a knob for rotating the shaft and setting the lug carrying arm and a pointer carried by the knob, the front side of the panel being provided with graduations in miles per hour with which the pointer cooperates.

2,167,093

CYLINDER HEAD AND METHOD OF MAKING THE SAME

John Tjaarda, Birmingham, Mich., assignor to Briggs Manufacturing Company, Detroit, Mich., a corporation of Michigan

Application December 7, 1936, Serial No. 114,614
4 Claims. (Cl. 123—173)



4. A composite cylinder head for an internal combustion engine, said head made of a cast base plate and a pressed sheet metal cover and including a spark plug nest, said nest comprising a boss integrally formed on said plate, said boss being provided with a grooved bore; a cylindrical flange formed on said cover and fitted into said bore; and a cylindrical insert fitted into the cylindrical space formed by said flange and outwardly expanded therein for locking said flange in said bore directly and positively to said base plate.

2,167,094

OIL-SOLUBLE RESIN

Victor H. Turkington, Caldwell, and William H. Butler, Palisades Park, N. J., assignors to Bakelite Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application December 11, 1934, Serial No. 757,067
11 Claims. (Cl. 260—19)

1. A reaction product of a methylene-containing substance and tar acids having a boiling point between 225° and 250° C., substantially free from phenols boiling outside said temperature range, being a resinous product solid at temperatures up to 80° C. and soluble in fatty oils independently of the presence of any component other than said methylene-containing substance and said tar acids.

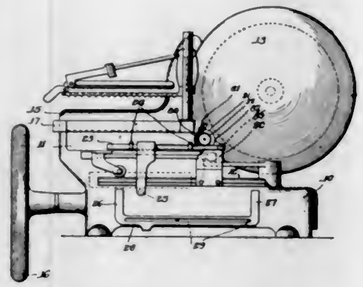
2,167,095

SLICING MACHINE

Wilhelmus Adrianus van Berkel, Clarens, Switzerland, assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana

Application December 24, 1936, Serial No. 117,472
In Great Britain January 7, 1936
6 Claims. (Cl. 146—102)

1. In a slicing machine having a reciprocable carriage and a slicing knife, a food table carried by the carriage and movable transversely relative thereto, a gauge plate adjustably mounted on the machine for movement toward and from the cutting plane of the slicing knife, a feed mechanism for said food table, said feed mechanism comprising a pawl and ratchet for moving said food table step by step transversely of the carriage, a regulating cam adapted to be adjusted to control the degree of movement imparted to said ratchet by said pawl, manually operable means for adjusting the gauge plate to predetermined positions relative to the cutting plane of the slicing knife,



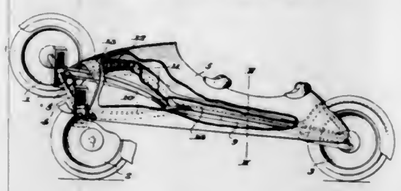
and means responsive to the movement of said adjusting means for adjusting said regulating cam in accordance with the adjustments of said gauge plate, said last mentioned means comprising a member shiftably mounted on said carriage for movement relative thereto and connected to said regulating cam, and a stationary adjustable stop member engageable with said shiftable member when said carriage is in its extreme positions or is approaching said extreme positions.

2,167,096

THREE-WHEEL MOTOR CAR

Paul Anna Charles François Van den Stock, Woluwe-Saint-Lambert, Brussels, Belgium

Application November 13, 1935, Serial No. 49,635
In Belgium November 19, 1934
4 Claims. (Cl. 280—106.5)



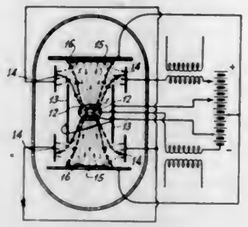
1. A three-wheel motor car comprising in combination two parallelly arranged front wheels, a front axle connecting said front wheels, a rear wheel, a rear axle carrying said rear wheel a frame connecting said front axle to said rear axle, a pivotal connection between said front axle and said frame whereby said frame is allowed to oscillate about said front axle, a car body pivotally mounted at its front end to the forward end of said frame so as to be able to oscillate normally to said front axle, an arm carried by said frame and projecting upwardly therefrom, and a spring interposed between said arm and the forward portion of said car body for suspension of said car body on said frame so that oscillations of said frame about said front axle are damped by said spring without causing said car body to oscillate.

2,167,097

SECONDARY ELECTRON DISCHARGE DEVICE

Adrianus J. W. M. van Overbeek and Edmund H. Löpp, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application August 25, 1937, Serial No. 160,796
In the Netherlands September 1, 1936
3 Claims. (Cl. 250—174)



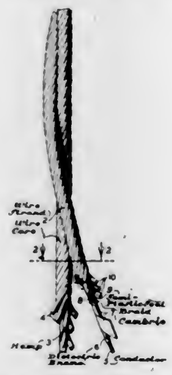
1. An electron discharge tube comprising an electrode system including a cathode, an output anode having an aperture, an accelerating electrode between said cathode and said output anode for concentrating the discharge from said cathode to said output anode into an electron beam directed through said aperture in said anode, and a second anode element further from said cathode than said output anode and comprising a metal sheet wider than the aperture in said output anode, said anode element having on the surface facing said aperture a coated portion of high secondary electron emissivity in register with said aperture and narrower than said metal sheet.

2,167,098

STRAND-CARRIED MULTIPLE CONDUCTOR WIRE ROPE

Walter T. Wells, Glendale, Calif., assignor, by mesne assignments, to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware

Application November 20, 1935, Serial No. 50,651
5 Claims. (Cl. 174—103)



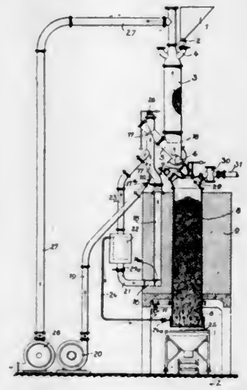
3. A hoisting and conducting wire rope formed of a multiple wire main core and a plurality of multiple wire strands helically wound thereon and occupying the major diameter of the wire rope to produce a pronounced key-stoning effect, insulated conductors within said strands having a lower elastic limit than the strands and subject to some tension with the stretch of the wire rope, and said core and strands being oppositely wound to exert opposing torque under tension to minimize twisting to a degree whereby the twisting of the conductors with the strands will prevent the elastic limit of the conductors being exceeded during the normal range of the stretch and retraction of the wire rope.

2,167,099

APPARATUS FOR PRODUCING A SMOKELESS SOLID FUEL

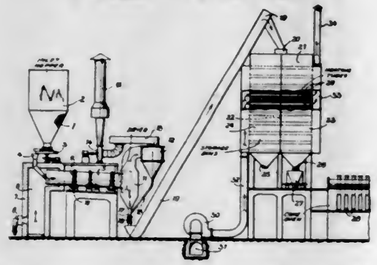
Louis Philippe Joseph Marius Bénézech, Carmaux, France, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware

Application October 29, 1935, Serial No. 47,215
In France October 29, 1934
1 Claim. (Cl. 202—113)



Apparatus for coking briquettes comprising: a series of alternate vertically discharging distillation chambers and vertical heating flues therefor arranged side-by-side in a row, the heating flues comprising up-flow and down-flow limbs spaced parallel to each other longitudinally of the row; a separate oxidation chamber for each of the distillation chambers, adapted for oxidation of preformed briquettes, each individual oxidation chamber being disposed directly over its distillation chamber and having closeable inlet and outlet means for gravity feeding of briquettes to its distillation chamber, and each individual oxidation chamber having gas conveyance means for circulation of oxidizing gas in through the briquette outlet into the oxidation chamber in direct contact with briquettes therein and having regulable means for feeding oxidation air into the gas conveyance means; a separate offtake means, including a vertical flue disposed vertically at one end of each distillation chamber, individual to each of the distillation chambers and to the heating flues therefor and the individual oxidation chamber therefor, for drawing off hot waste gases of combustion from the heating flues of the respective distillation chambers; regulable means for conducting the gases from the respective vertical flues directly to the gas conveyance means for the oxidation chamber individual to the distillation chamber therefor; and separately regulable means including a gas temperature regulator for separately conducting hot gas from the respective offtake means to the gas conveyance means individual thereto, so as to by-pass the vertical flue of the offtake means.

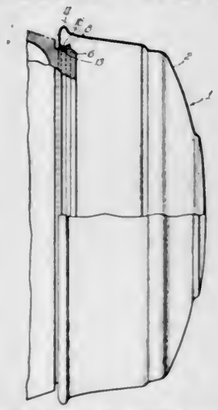
2,167,100
PROCESS OF PRELIMINARY OXIDATION OF CAKING COAL WITH SUBSEQUENT COKING THEREOF
Louis Philippe Joseph Marius Bénézech, Carmaux, Tarn, France, assignor, by mesne assignments, to Koppers Company, Pittsburgh, Pa., a corporation of Delaware
Application February 12, 1937, Serial No. 125,392
In France February 14, 1936
1 Claim. (Cl. 202—25)



In a process for the production of coke and semi-coke from coking coal which previously to the carbonization thereof, had been subjected to a predetermined limited degree of oxidation to reduce the cakeability of the coal, the improvement comprising: storing the total quantity of coal to be coked in a downwardly moving tower-like bunker column thereof; oxidizing the coal during its storage with only the air normally entrained in the coal when charged into storage by merely aging the coal in the bunker column, in the absence of direct contact with heating gas, and while being maintained at a temperature between 150–160° C. at the top of the column and 130°–140° C. at its bottom, for the period of time, comprising at least several days, predetermined as being required for oxidizing of the coal by aging it with its entrained air to attain the required degree of oxidation before the coal is withdrawn at the bottom for carbonization; the coal to be oxidized being supplied at the top and the oxidized coal being withdrawn at the bottom of the bunker column regularly as required for the coking step; the aging being effected so that the coal introduced at the top is aged in passing to the bottom in its progressive descent through the column; and thereupon carbonizing the aged oxidized coal as it is withdrawn from the bottom of the bunker column.

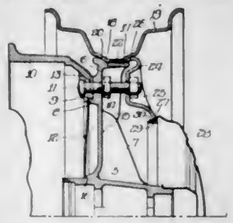
2,167,101
HUB CAP
Frederick W. Burger, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application April 29, 1935, Serial No. 18,731
1 Claim. (Cl. 301—108)

A hub cap for detachable mounting over an external annular surface of a hub, said hub having an outwardly directed groove therein, said hub cap comprising a dish-shaped body portion having a radial inwardly directed flange at its periphery terminating in an axially inwardly directed annular lip, said lip having circumferentially spaced cut out portions therein and having edge portions thereof intermediate said cut out portions turned radially outwardly to define radially outwardly directed channels disposed within the radially spaced internal peripheral surface of said body portion, a plurality of independent spring wire sections disposed with the ends thereof in said channels and bearing against said internal peripheral surface of said body portion, the intermediate portions of each wire section forming substantially chordal portions extending across and partially projecting radially inwardly of said cut out portions, the adjacent ends of said wire sections being circumferentially spaced to accommodate outward arching of said



chordal portions during telescoping movement of said lip over said hub surface and reacting against said internal peripheral surface of said body portion to spring said chordal portions through said cut out portions into the groove of said hub surface as said cut out portions move into radial alinement therewith.

2,167,102
WHEEL
Frederick W. Burger, Niles, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application August 8, 1935, Serial No. 35,298
10 Claims. (Cl. 301—22)



1. In combination, a wheel spider having radially extending spokes terminating in axially extending spoke ends, a rim having a beveled internal surface, a correspondingly beveled surface at each of said spoke ends, and an annular clamping plate having a peripheral channel-shaped flange covering the outboard portion of said spoke ends and having a defining edge engaging said rim for wedging said rim into radially chorded position on said spider, said plate being laterally tightened on said spider.

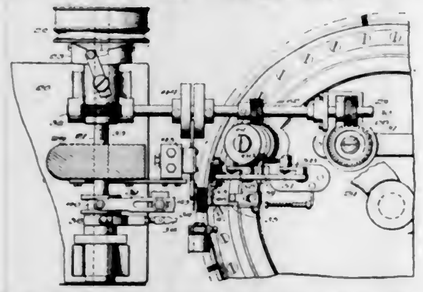
2,167,103
PUNCH
Alberto Bustamante and Benjamin R. Enriquez, Mexico, D. F., Mexico
Application March 23, 1939, Serial No. 263,588
1 Claim. (Cl. 164—119)

In a punch, marks consisting in narrow grooves or etched lines on its visible lateral shearing face according with normal planes to



that of the mouth, said marks or lines ending at the shearing edge of the punch.

2,167,104
SEWING MECHANISM
Thomas H. De Spain, Paducah, Ky., assignor to Southern Textile Machinery Company, Paducah, Ky., a corporation of Kentucky
Application December 9, 1938, Serial No. 244,844
15 Claims. (Cl. 112—25)



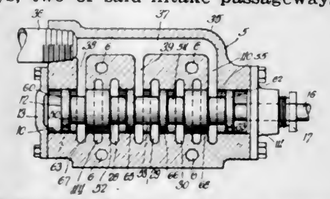
3. In a sewing machine comprising a series of work-supporting points, a thread needle, means for advancing the points past said needle, means for reciprocating the needle longitudinally of said points, and a looper for forming a loop in the needle thread, the combination of an elongated stitch finger disposed substantially parallel to the line of movement of the work points, and means for causing the needle and the thread carried thereby to pass alternately at opposite sides of said finger during successive movements of the reciprocating needle in the same direction.

2,167,105
CELLULOSIC MATERIAL AND METHOD OF MAKING SAME
Donald E. Drew, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application October 22, 1936, Serial No. 107,057
7 Claims. (Cl. 91—68)

4. In the method of forming transparent regenerated cellulose film, the step which comprises treating said film with an aqueous solution of glycerin and lithium phosphate, the pH of the solution being between 7.0 and 8.0.

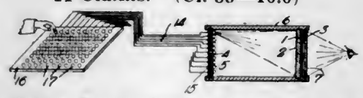
2,167,106
CONTROL VALVE MEANS
Elmer J. Dunham and Walter C. Yeakel, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application September 12, 1936, Serial No. 100,515
4 Claims. (Cl. 121—46.5)

1. A valve comprising a valve body formed as a rectangular block having a longitudinal bore therethrough, a boss on one side of said block defining an intake manifold having means for receiving an intake conduit and having a plurality of axially spaced annular passageways extending about and communicating with said bore, a second boss on an adjacent side of said block defining an exhaust manifold having means for receiving an exhaust conduit and having a corresponding plurality of axially spaced annular passageways, two of said intake passageways being



disposed intermediate two adjacent exhaust passageways, ports communicating with said bore between certain of said intake and exhaust passageways and opening out on the next adjacent face of said block, and means disposed for axial shifting movement in said bore to place said ports in selective communication with said intake and outlet passageways, one of said intermediate intake passageways serving only to permit balanced pressure being exerted on said shifting means in said selected shifted positions.

2,167,107
DEVICE FOR REPRODUCING CINEMATOGRAPHIC PICTURES
Andrija Dvornik, Zagreb, Jugoslavia
Application July 6, 1936, Serial No. 89,029
In France July 12, 1935
11 Claims. (Cl. 88—16.6)

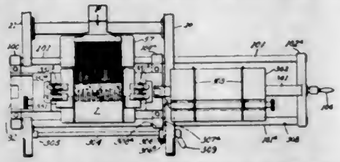


1. A device for projecting a series of pictures comprising a transparent stationary plate having a multiplicity of lenses in close juxtaposition on one face, a stationary transparent carrier for dissociated records of pictures on the other face of said lens plate all of said lenses having their respective punctiform foci in the plane of said record carrier, a plurality of stationary sources of light facing the lenses of said lens plate and in a common plane, means for successively energizing said sources of light to illuminate the lens plate, the space between said sources of light and said lens plate being unobstructed, the dissociated records on the transparent carrier being arranged in groups on the carrier, the lenses of said plate being adapted to concentrate the rays of light striking the same to different records out of each group of dissociated records on the carrier depending upon the source of light which had been energized the different records illuminated upon each energization of said stationary sources of light in all groups having the same relation to the other records in each group.

2,167,108
BREAD SLICER
Lester Ferenci, Brooklyn, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application August 20, 1935, Serial No. 36,950
16 Claims. (Cl. 146—153)

3. In a bread slicing and wrapping machine,

the combination with a pusher adapted to advance a loaf of bread sidewise, of a slidable frame movable transversely of the path of said pusher, a slicer unit and a table mounted on said frame, whereby either the slicer unit or the table may be moved into operative relation to the loaves advanced by said pusher, and means for locking said frame with said slicer unit or table



in operative position, said frame including a pair of rods and a plurality of cross-bars connecting said rods, the slicer unit and table being carried by said bars and one of said bars being provided with a plurality of spaced notches, and said means including a shaft and a pair of latch pawls on said shaft adapted to engage said notches when the slicer unit or table is in operative position, respectively, to lock the frame.

2,167,109

ILLUMINATED WATCH CLIP AND MIRROR

Shepard J. Goldin, Brooklyn, N. Y.

Application March 31, 1937, Serial No. 133,944
4 Claims. (Cl. 240—6.43)



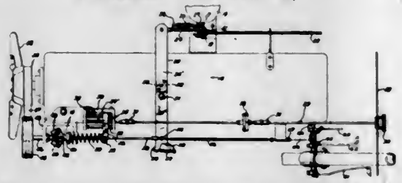
1. An elongate frame comprising a receptacle extending therealong from a point adjacent one end thereof, a light bulb in the end of said receptacle disposed adjacent the middle of said frame, electric cells located in said receptacle for energizing said bulb, a watch mounted in said frame adjacent the other end thereof, said frame shaped and said bulb so located that a minor portion of the rays therefrom shine on said watch and the major portion are directed away from the frame, said frame forming a part of the receptacle for said light bulb and said watch.

2,167,110

AUTOMATIC THROTTLE CONTROL

Andrew C. Gutenberg and Rodger L. Brower, Milwaukee, Wis.

Application February 14, 1938, Serial No. 190,365
7 Claims. (Cl. 192—3)



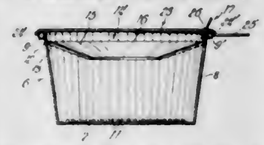
1. In a motor vehicle having an internal combustion engine with a carburetor, and a standard operating pedal, a movable arm for operating the carburetor valve, a pivotal lever for actuating said arm, yielding and adjustable connections extending from the vehicle dash to said lever and operable manually for effecting an initial open setting of the carburetor valve, a governor connected with the vehicle engine and interposed in said connections for automatically moving said lever for controlling the carburetor relative to its set condition in synchrony with the engine speed, yielding means controlled by the adjustment of said connection for repelling lever influencing operation of the governor commensurate with the initial open setting of the carburetor valve, and a yielding connection between the operating pedal and said lever for independently moving said lever.

2,167,111

SPUTUM CUP

Kenneth C. Hamilton, Milwaukee, Wis., assignor to Milwaukee Lace Paper Company, Milwaukee, Wis., a corporation of Wisconsin

Application February 23, 1938, Serial No. 191,933
3 Claims. (Cl. 4—271)



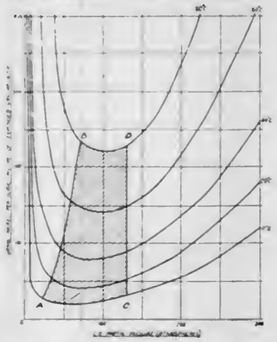
1. In combination, a cup having an outwardly rolled peripheral bead substantially circular in cross-section, a cover having a depending peripheral flange shaped conformably to and engaging about said bead providing a pivotal connection for opening and closing movements of said cover, and an inherently resilient retaining member associated with said cover and cup and maintaining the pivotal portion of said bead and flange in operative engagement during the movements of said cover, said retaining member abutting said bead and having a portion bendable from a normal position over and in conformance with the curvature of said bead during the opening movement of said cover, whereby the inherent resiliency of said member will return it to its normal position and the cover to its closed position.

2,167,112

PREPARATION OF NICKEL CARBONYL

Charles Frederick Reed Harrison, Selley Oak, Birmingham, and Albert Edward Wallis, Clydach, England, assignors to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware

Application November 8, 1934, Serial No. 752,076
In Great Britain November 11, 1933
5 Claims. (Cl. 23—203)



3. The improved process for the production of nickel carbonyl which comprises reacting nickel-containing material and carbon-monoxide containing gases at a reaction temperature and under a reaction pressure to obtain reaction gases containing carbon monoxide and condensible nickel carbonyl, cooling said gases containing condensible nickel carbonyl from said reaction temperature to a condensation temperature of about 0° C. to about 80° C., altering the total pressure of said cooled gases from said reaction pressure to a condensation total pressure dependent upon the carbon monoxide content of said cooled gases and corresponding to a carbon monoxide partial pressure between about 130 atmospheres and a carbon monoxide partial pressure calculated from the equation, $P=0.67T+22$, while maintaining said condensation temperature practically constant, liquefying at least 90% of said condensible nickel carbonyl at said altered pressure, and separating said liquefied nickel carbonyl whilst maintaining said altered condensation pressure substantially constant whereby increased amounts of nickel carbonyl are recovered.

2,167,113

VEGETABLE OIL PRODUCT

Carl H. Haurand, North Plainfield, and Ralph H. Neal, Bayonne, N. J., and Hans W. Vahlteich, New York, N. Y., assignors to The Best Foods, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application March 27, 1936, Serial No. 71,176
13 Claims. (Cl. 99—122)

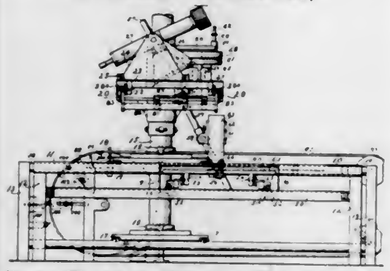
1. A margarine comprising an emulsion of milk with an oil comprising partially hydrogenated vegetable oil containing a greater percentage of glycerides of iso-oleic acid than glycerides of saturated fatty acids.

2,167,114

X-RAY DEVICE

Jean Kieffer, Norwich, Conn.

Application May 19, 1937, Serial No. 143,445
23 Claims. (Cl. 250—58)



1. In an X-ray machine, an X-ray tube holder mounted for motion in a single plane, a plate holder mounted for movement in a parallel plane and means for automatically and simultaneously imparting to said tube holder and said plate holder a predetermined cycle of similar but opposite spiral motion within their planes.

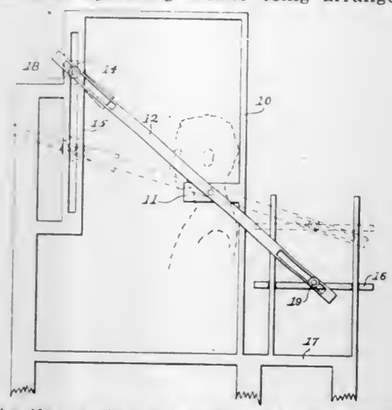
2,167,115

RADIATION METHOD AND APPARATUS

Jean Kieffer, Norwich, Conn.

Application September 10, 1937, Serial No. 163,219
18 Claims. (Cl. 250—58)

14. In a radiological apparatus for plane visualization, a tube holder, means for supporting said holder for movement restricted to a given field, a plate holder, means for supporting said plate holder for movement in a restricted field, operating means for simultaneously moving said tube holder and said plate holder in their restricted fields, said operating means being arranged to



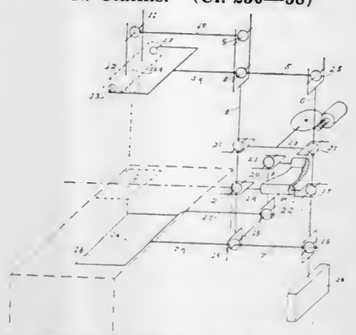
locate the centers of such restricted fields on opposite sides of a plane perpendicular to the field to be visualized.

2,167,116

SPHERICAL MOVEMENT RADIATION METHOD AND APPARATUS

Jean Kieffer, Norwich, Conn.

Application September 10, 1937, Serial No. 163,220
12 Claims. (Cl. 250—58)



1. A method of subjecting a given point in a body to a concentration of X-rays which includes the step of subjecting the body to X-rays emanating from a moving source of ray emanation which is moving with non-planar spherical motion.

2,167,117

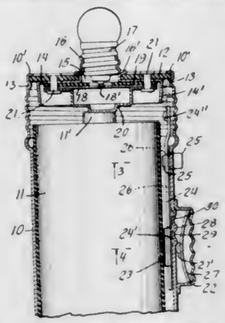
SWITCH FOR HAND LAMPS

Walter R. Kopp, New Haven, Conn., assignor, by mesne assignments, to Western Cartridge Company, a corporation of Delaware

Application August 25, 1937, Serial No. 160,813
5 Claims. (Cl. 200—60)

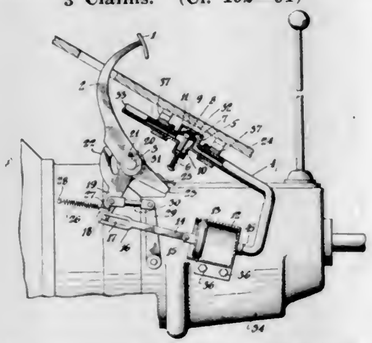
1. A switch comprising a fixed contact, a conductor slidable endwise relative to the contact and movable laterally relative thereto, a manually operable slide for moving the conductor, a sinuous member under the slide, a spring seated at its ends in the slide and normally bowed and having a detent intermediate its ends engageable with the sinuous member, said spring and member being operable to lock the slide selectively in one position in which the conductor is permanently engaged with the contact, in a second

position in which the conductor is in lateral alignment with the contact but normally disengaged threfrom and in a third position in which the conductor is out of lateral alignment with



the contact, and manually operated means independent of the slide and through which the conductor extends for moving the conductor laterally into engagement with the contact when the member is in said second position.

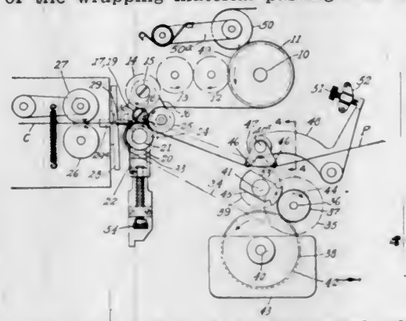
2,167,118
CLUTCH CONTROL
Alfred Henri Lanser, Paris, France
Application February 6, 1937, Serial No. 124,381
3 Claims. (Cl. 192—91)



1. In combination with a mechanical clutch member, a clutch pedal for disengaging said clutch member, means for re-engaging said clutch member, a source of power operating through a valve controlled line to energize a piston adapted to prevent re-engagement of said clutch member, means on said clutch pedal for actuating said valve when said clutch pedal is depressed beyond its disengaged position to regulate energization of said piston.

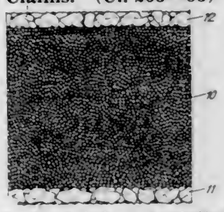
2,167,119
CIGARETTE TIPPER
James W. Leary, Bloomfield, N. J., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application October 26, 1935, Serial No. 46,940
7 Claims. (Cl. 131—39)

4. In a cigarette machine having means for continuously feeding a web of tipping material, a knife for severing strips from the leading end thereof, and means for continuously advancing a web of wrapping material at a speed considerably greater than that of the tipping material, the combination with a guide roller over which said wrapping material is guided, of a feed roller, and a rotary segmental roller arranged on an axis above the tipping material to nip each strip on the feed roller immediately after it is severed and advance it on to the portion of the wrapping material passing over the



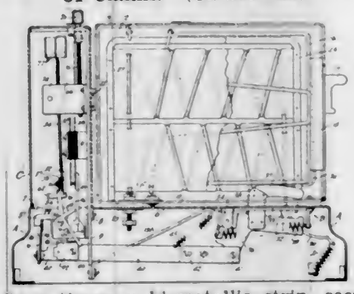
guide roller, the radius of said segmental roller and the length of its segment being less than the length of one of said strips.

2,167,120
PROCESS OF CALCINING FINELY DIVIDED CALCIUM CARBONATE
Thorne E. Lloyd, Neteong, N. J., assignor to Dwight & Lloyd Metallurgical Company, New York, N. Y., a corporation of New Jersey
Application September 3, 1938, Serial No. 228,285
8 Claims. (Cl. 263—53)



1. A method of calcining precipitated or finely divided calcium carbonate which comprises forming said carbonate into pellets for calcining and calcining a layer of said pellets while protecting the upper part of said layer with a covering layer of coarse material.

2,167,121
TIMING AND TIMING DEVICE
Harold J. McCreary, Lombard, and Rodney G. Richardson, Chicago, Ill.
Application February 19, 1936, Serial No. 64,630
31 Claims. (Cl. 219—19)

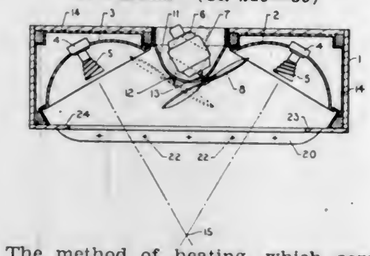


1. In a timer, a bi-metallic strip, secured at one end and having the other end free to move, means for moving and returning said free end through a predetermined distance by heating and cooling the strip, and adjusting means for shifting up and down both limits of the temperature

range to which the movement and return of said strip is responsive while the said distance is maintained constant.

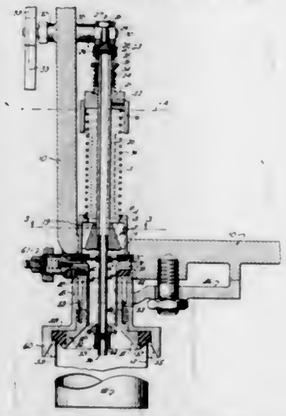
5. In a bread toaster, a toasting compartment, a slice carrier hinged relative to said compartment and freely movable on its hinge from a position outside said compartment to a position inside said compartment, a spring operated ejector associated with said compartment and set by movement of said carrier into the same, means for locking said ejector in set position, said carrier being movable out of the compartment while the ejector is locked but normally remaining in said compartment by the action of gravity, a timer, and means controlled by said timer to release said ejector and thereby give an impulse to said carrier to expel the same from said compartment.

2,167,122
METHOD AND APPARATUS FOR HEATING
Howard H. Metcalf, Battle Creek, Mich., assignor to Metcalf Manufacturing Co., Battle Creek, Mich., a corporation of Michigan
Application April 18, 1938, Serial No. 202,633
20 Claims. (Cl. 219—39)



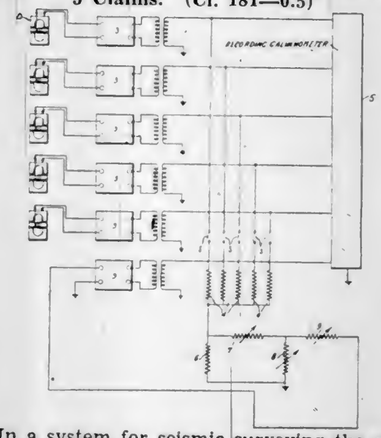
1. The method of heating, which comprises using a source of heat in continual succession for alternately pre-heating and then super-heating a gaseous fluid flowing in continual heat absorbing relation with said source of heat.

2,167,123
FILLER VALVE
George L. N. Meyer, Milwaukee, Wis.
Application August 3, 1936, Serial No. 94,015
11 Claims. (Cl. 226—109)



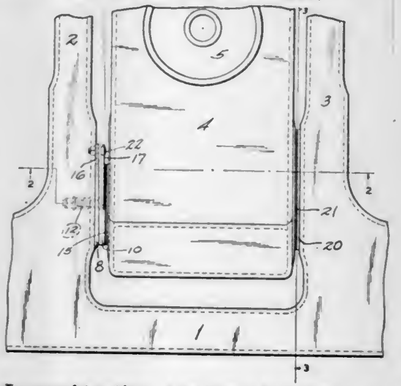
1. In a valve assembly adapted to control the flow of fluid from a supply source to a container to be filled, a liquid conduit to conduct liquid to the container, a valve to control the flow of liquid through said conduit, a gas tube mounted in said conduit, a spreader element mounted on said tube below said valve and adapted to divert the liquid in the conduit toward the side of the container, and an artificial top for said container mounted in the valve assembly and adapted to receive liquid from said spreader and conduct it to a point adjacent the side walls of the container.

2,167,124
APPARATUS FOR RECORDING SEISMIC WAVES
John P. Minton, Dallas, Tex., assignor, by mesne assignments, to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
Application November 17, 1937, Serial No. 174,976
5 Claims. (Cl. 181—0.5)



1. In a system for seismic surveying the combination of a plurality of geophones, means for making separate records of the reactions of each of the geophones and additional means for simultaneously making a composite record of the reactions of the geophones without interfering with their separate records.

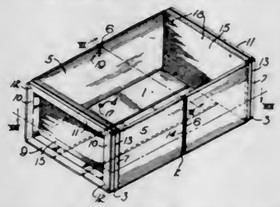
2,167,125
RAILWAY TRUCK STRUCTURE
Harry M. Pflager, St. Louis, Mo., assignor to General Steel Castings Corporation, Granite City, Ill., a corporation of Delaware
Application September 19, 1938, Serial No. 230,532
12 Claims. (Cl. 105—197)



2. In combination, a railway truck frame part, a relatively movable truck bolster part extending

alongside thereof, chafing plate structure on one of said parts, said structure including relatively rotatable members one bearing on the other with their interengaging faces shaped to vary the extent of the structure transversely of said parts when rotated relatively to each other there being means in said structure for holding said members against relative rotation, said structure being accessible from the side of the truck for effecting relative rotation of said members.

2,167,126
WIRE BOUND BOX
Frank A. Schaack, Chicago, Ill., assignor to Chicago Mill and Lumber Company, Chicago, Ill., a corporation of Delaware
Application January 22, 1938, Serial No. 186,309
3 Claims. (Cl. 217—12)



1. A knockdown type wire-bound box comprising a bottom and side walls having transverse grooves in the outer faces adjacent the ends thereof, said bottom also having recesses formed therein, end frames secured to the bottom and the side walls and including top cleats having grooves therein, the ends of which register with the grooves in the side walls, end binding wires seated in the grooves of the bottom and side walls and in the grooves of the end frame top cleats, said wires having the ends thereof twisted together and projected into the recesses provided in the bottom, an intermediate binding wire engaged around the box and seated in grooves of the bottom and side walls, said intermediate wire having the ends thereof twisted and seated in a recess in the bottom, said intermediate wire also having intermediate ends which are projected downwardly into the box and into the inner faces of the side walls.

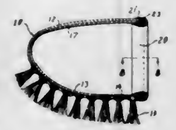
2,167,127
LACQUER AND ITS PREPARATION
Fritz Seebach, Erkner, near Berlin, Germany, assignor to Bakelite Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application January 23, 1936, Serial No. 60,517. In Germany February 1, 1935
4 Claims. (Cl. 260—30)

1. Process of making an aqueous dispersion of a phenol-aldehyde resin and wood oil suitable for use as a lacquer which comprises heating about equal parts of the resin and the wood oil together with a wood oil acid in the presence of cyclohexanol, distilling off at least a part of the cyclohexanol, and passing the product in the form of a heated liquid into water made alkaline.

2,167,128
METHOD OF PRODUCING SUPERFICIAL CARBONIZATION OF METALS AND ALLOYS
Edward William Skelton, Erdington, Birmingham, England, assignor to The International Nickel Company, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application March 5, 1937, Serial No. 129,193. In Great Britain March 27, 1936
12 Claims. (Cl. 250—27.5)

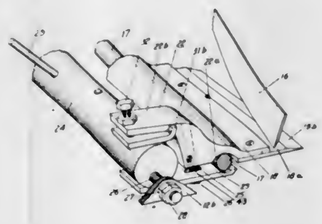
6. The process of manufacturing an electron discharge tube comprising mounting in the tube an electrode made of a nickel alloy containing sufficient carbon to become carbonized, and heating the mounted electrode at a temperature within the range of about 500° C. to 1200° C. in an atmosphere incapable of reacting rapidly with carbon until a firmly adhering film of carbon is formed on the surface.

2,167,129
BRUSH
Wesley A. Sleeper, Los Angeles, Calif.
Application May 14, 1938, Serial No. 207,948
4 Claims. (Cl. 15—227)



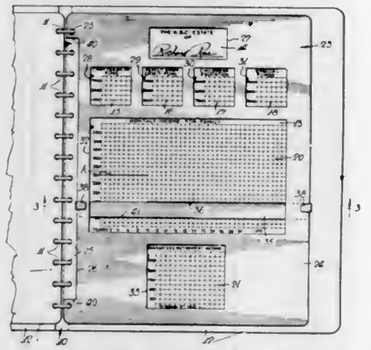
1. In a brush finger tip device, a hollow outer rubber body member having apertures extending therethrough, said apertures being disposed in aligned pairs, said body having a groove between each pair of apertures, looped tufts of bristles extending through each pair of apertures so that the free ends of the bristles are disposed without said body, the intermediate looped portion of said bristles being disposed in said grooves and flush with the inner surface of the body, and a single liner means within said outer body member and engaging the intermediate portions of said bristles.

2,167,130
MOWER
Frank J. Vondracek, Cedar Rapids, Iowa, assignor of one-tenth to Fred Kubias and one-tenth to Ernest Kosek, both of Cedar Rapids, Iowa
Application January 11, 1938, Serial No. 184,381
3 Claims. (Cl. 56—294)



3. A cutter means and adjustment means for same for use in a mower having a cutting reel, side plates in which the cutting reel is rotatably mounted and a truss bar mounted between the side plates at the lower portions thereof, said cutter means and adjustment means including a cutter bar, a cutter blade extending forwardly therefrom, the cutter bar having a depression therein adapted to be engaged over the truss bar, an eccentric extending parallel to and the entire length of the cutter bar and located at the rear thereof, means for pivotally engaging the eccentric to the side plates, bracket members at each end of the cutter bar extending rearwardly over the eccentric, alignment adjustment plates between the brackets and the eccentric, screw means threadedly engaged in the brackets and bearing against the alignment adjustment plates, and bracket plates adjustably clamped against the truss bar and the eccentric by means of threaded members extending through the bracket plates and the brackets.

2,167,131
MASK DEVICE
Frank F. Weidenborner, Scarsdale, N. Y., assignor to The Guardian Life Insurance Company of America, New York, N. Y., a corporation of New York
Application November 18, 1938, Serial No. 241,096
3 Claims. (Cl. 35—24)



1. A mask device comprising a comparatively thin flat plate, having a pair of apertures at one edge for receiving a pair of sheet retaining prongs respectively of a loose leaf binder, said plate having one or more openings for exposing therethrough portions of a sheet underlying said plate, and a slide secured to said plate, and slidable along one face thereof across said opening or openings, said slide presenting a side adapted to be used as a reference or ruling edge on the exposed portion of said sheet.

2,167,132
PROCESS FOR THE PREPARATION OF DERIVATIVES OF ESTRADIOL
Rezsö Weisz, Budapest, Hungary, assignor to the firm Chinoin Gyogyszer És Vegyészeti Termékek Gyara R. T. (Dr. Kereszty and Dr. Wolf), Ujpest, Hungary, a corporation of Hungary
No Drawing. Application February 17, 1938, Serial No. 190,952. In Hungary February 17, 1937
7 Claims. (Cl. 260—397)

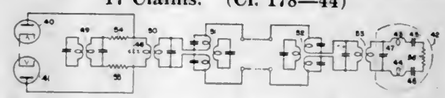
1. A process for preparing estradiol derivatives which comprises acylating estradiol-3-benzyl-ether by reacting it with an aliphatic acylating agent, and subsequently removing the benzyl group by catalytic reduction.

2,167,133
FRUIT PICKER
Ernest L. Wetzig, Clint, Tex.
Application November 3, 1937, Serial No. 172,606
3 Claims. (Cl. 56—339)

1. A fruit picker comprising a receptacle, a series of hooks around the rim of the receptacle, each hook including a projection and an outer web, a reinforcing covering on the outside of said rim including portions carried up between each projection and web, and means fastening the individual webs and the covering to the rim.

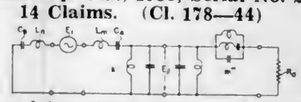


2,167,134
WIDE BAND COUPLING SYSTEM
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application April 22, 1938, Serial No. 203,595
17 Claims. (Cl. 178—44)



1. A signal-translating system for operation over a range of frequencies comprising one or more pairs of terminals between one pair of which there is effectively substantial reactance and substantial resistance both tending to limit the response of said system over said range, a dead-end filter having a predetermined image impedance over said range coupled to said one of said pairs of terminals, said filter comprising only a part of said reactance as a terminal mid-element of said filter, and an impedance termination coupled to the dead end of said filter proportioned substantially to match the image impedance of said filter over said range, the reactive constant of said dead-end filter being so proportioned relative to said reactance, said resistance, and the operating frequency range that the impedance between said one of said pairs of terminals over said range is substantially uniform and approximately the limiting value that can be maintained between said one pair of terminals over said range.

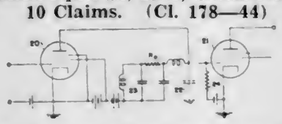
2,167,135
WIDE BAND COUPLING SYSTEM
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application April 22, 1938, Serial No. 203,596
14 Claims. (Cl. 178—44)



1. A signal-translating system for operation over a wide range of frequencies comprising one or more pairs of terminals in series with one pair of which there is substantial reactance tending

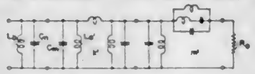
to limit the response of said system over said range, a dead-end filter having a predetermined image impedance over said range coupled to said one of said pairs of terminals, said filter comprising only a part of said reactance as a terminal mid-series element of said filter and an impedance termination coupled to the dead end of said filter proportioned substantially to match the image impedance of said filter over said range, the reactive constants of said dead-end filter being so proportioned relative to said reactance and the operating frequency range that the mean value of the admittance between said one pair of terminals over said range is substantially the maximum value that can be maintained therebetween over said range.

2,167,136
TWO-TERMINAL LOW-PASS COUPLING SYSTEM
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application April 22, 1938, Serial No. 203,597
10 Claims. (Cl. 178—44)



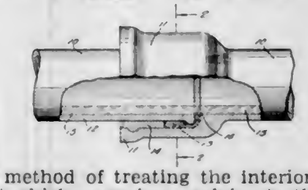
1. A two-terminal low-pass signal-translating system for operation over a wide range of frequencies comprising a pair of terminals common to the input and output circuits of said system and across which there is effectively capacitance tending to limit the response of said system over said range, a dead-end filter having a predetermined image impedance over said range coupled to said terminals, said filter comprising only a part of said capacitance as a terminal mid-shunt element, and an impedance termination coupled to the dead end of said filter proportioned substantially to match the image impedance of said filter over said range, the reactive constants of said dead-end filter being so proportioned relative to said capacitance and the operating frequency range that the mean value of the impedance across said terminals over said range is approximately the maximum that can be maintained over said range.

2,167,137
TWO-TERMINAL BAND-PASS COUPLING SYSTEM
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application April 22, 1938, Serial No. 203,598
8 Claims. (Cl. 178—44)



1. A band-pass two-terminal signal-translating system for operation over a wide range of frequencies comprising substantial capacitance across said terminals tending to limit the response of said system over said range, a dead-end filter having a predetermined image impedance over said range and coupled to said terminals, said filter comprising only a part of said capacitance as a terminal mid-shunt element, a terminating resistor for the dead end of said filter, said filter comprising an impedance termination proportioned substantially to match the image impedance of said filter with said resistor over said range, the reactive constants of said filter being so proportioned relative to said capacitance and the operating frequency range that the impedance across said terminals is substantially uniform over said range and substantially the maximum that can be maintained thereacross over said range.

2,167,138
TREATMENT OF GAS DISTRIBUTION SYSTEMS
Duncan B. Williams, Glen Ridge, N. J., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application January 11, 1939, Serial No. 250,306
5 Claims. (Cl. 48—190)



1. A method of treating the interior of a gas conduit which comprises applying to the interior of said conduit a liquid comprising glycerine having admixed therewith a viscosity reducing agent.

2,167,139
TREATMENT OF GAS DISTRIBUTION SYSTEMS
John R. Skeen, Philadelphia, Pa., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application March 1, 1937, Serial No. 128,556
8 Claims. (Cl. 48—190)

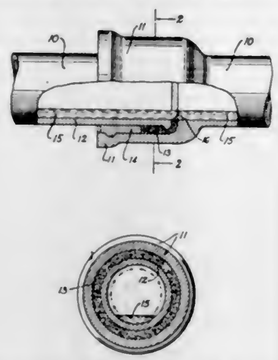
1. A method for treating the interior of a gas distribution system which comprises applying to the interior of said system a liquid mixture comprising a phenol and at least one of a group consisting of ethylene glycol, diethylene glycol, monomethyl ether of ethylene glycol, monomethyl ether of diethylene glycol, and glycerine.

2,167,140
TREATMENT OF GAS DISTRIBUTION SYSTEMS
Duncan B. Williams, Glen Ridge, N. J., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
No Drawing. Application October 4, 1937, Serial No. 167,316
6 Claims. (Cl. 48—190)

1. A method for treating the interior of a gas conduit having other than fiber packed joints to lay dust, comprising coating dust sources within said conduit with an alcohol selected from a group consisting of octyl alcohol, lauryl alcohol, cetyl alcohol, monoamyl ether of ethylene glycol, monoethyl ether of diethylene glycol, monoethyl ether of triethylene glycol, monobutyl ether of diethylene glycol, ethylene glycol, diethylene glycol, triethylene glycol, propylene glycol, and dipropylene glycol.

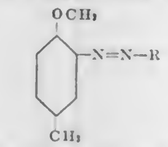
2,167,141
TREATMENT OF GAS DISTRIBUTION SYSTEMS
Duncan B. Williams, Glen Ridge, N. J., assignor to The United Gas Improvement Company, a corporation of Pennsylvania
Application May 18, 1938, Serial No. 208,729
7 Claims. (Cl. 48—190)

1. A method for treating a gas conduit to lay dust, comprising coating dust sources within said conduit with a liquid comprising an organic oil of low volatility, said oil being miscible with water in substantial quantity and being substantially inert in gas conduit environment.



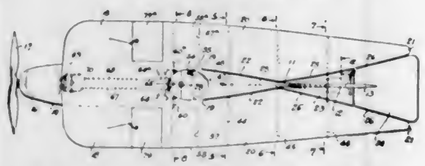
2,167,142
AZO DYES
Frithjof Zwilgmeyer, Arden, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 3, 1937, Serial No. 151,966
5 Claims. (Cl. 260—204)

1. A compound represented by the formula



in which R is the radical of an arylide of 2:3-hydroxy-naphthoic acid.

2,167,143
AIRCRAFT
Richard J. Thompson, Bakersfield, Calif.
Application May 18, 1938, Serial No. 208,650
4 Claims. (Cl. 244—13)



1. In an aircraft, a fuselage; wings projecting from the sides of the fuselage; the chords of the wings greatly exceeding the spans thereof so as to reduce head resistance to a minimum; the rearward portions of the wings being free of the fuselage and being flexible in a direction to enable the camber of the wings to be varied; spars secured to said flexible portions of the wings and projecting transversely of the fuselage at spaced locations along the length thereof; a rotatably mounted shaft extending longitudinally in the fuselage; geared connections driven by said shaft and operatively connected to said spars; and means by which said shaft can be rotated, whereby to flex said portions of the wings.

2,167,144
COMPOSITION OF MATTER
Raymond W. Barton and Warren M. Cox, Jr., Evansville, Ind., assignors to Mead Johnson & Company, Evansville, Ind., a corporation of Indiana
No Drawing. Application March 24, 1937, Serial No. 132,744
14 Claims. (Cl. 99—11)

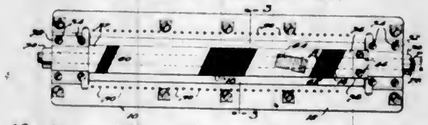
7. A stable, clear and translucent composition of matter consisting essentially of vitamin bearing fish liver oil, glycerol, a predominantly monooleic acid ester of a di-glycerol, and sucrose, in which the oil is in apparent solution, and which, when added to relatively large amounts of aqueous media merely by stirring, will form a stable colloidal dispersion or emulsion of the oil in the aqueous media, in which prolonged boiling, refrigeration, long standing or centrifugation will not effect separation.

2,167,145
PIPE WRENCH
John Best, Detroit, Mich.
Application September 14, 1937, Serial No. 163,832
2 Claims. (Cl. 81—100)



1. A device for the purpose described including a handle bar formed at one end with a bifurcated fixed jaw, each arm of said jaw having toothed sides which are inclined toward each other and toward the free end of the jaw, a movable jaw of semi-circular form having teeth on its inner edge and provided with an integral stem, and a pivot member for pivotally supporting said movable jaw for swinging movement between the two arms of said bifurcation, said pivot member being mounted upon said fixed jaw and provided with a transverse opening within which said stem of said movable jaw is slidable as pressure is applied to said handle bar and within which opening said stem is also rotatable.

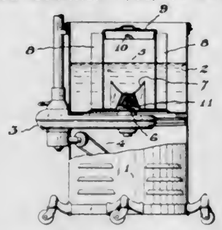
2,167,146
MEANS FOR FINISHING GEARS
Joseph C. Drader and John D. Rovick, Detroit, Mich., assignors to Michigan Tool Company, Detroit, Mich., a corporation of Delaware
Application April 2, 1936, Serial No. 72,270
14 Claims. (Cl. 29—96)



13. A gear-like cutting tool comprising, in com-

bination, a single tool body having a plurality of teeth arranged in a single row in successive groups thereon with each tooth extending transversely across the tool body, the teeth in certain of said groups being disposed at a finite helix angle to the teeth of others of said groups.

2,167,147
COMPARTMENTAL WASHING MACHINE
Walter A. Frantz, Cleveland Heights, Ohio, assignor to The Apex Electrical Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application April 14, 1930, Serial No. 444,110
Renewed September 29, 1933
24 Claims. (Cl. 68—27)



2. An oscillatable agitator for washing machines which is itself made hollow to constitute a second container having internal vanes for the agitation of the liquid contents thereof and having external vanes on the side walls thereof for agitating the liquid and fabric contents surrounding the same in the washing machine wherein it is used, said agitator having a socket for attachment to an operating shaft and the side wall of said agitator being imperforate.

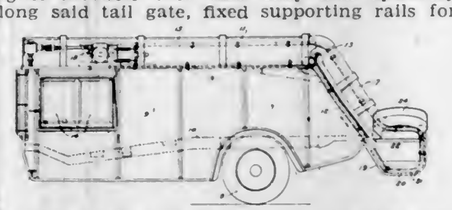
4. In a washing machine, a tub, a shaft in said tub, an agitator mounted on said shaft, operating means for imparting movement to said shaft and agitator, said agitator having a sinuous upstanding wall free of abrasive corners and providing a liquid chamber and agitating surfaces, and means closing said liquid chamber.

13. In a clothes washing machine, a tub, an element movably mounted on a vertical axis in said tub for dividing the same into different washing compartments, means for agitating liquid and articles to be washed in such compartments at relatively different intensities, and mechanism for operating said last-named means.

19. A single tub clothes washing machine comprising, an outer tub and associated means in the tub defining therewith a plurality of washing compartments located one inside the other and adapted for the simultaneous reception and agitation of detergent fluid and two different batches of clothing, shaft means operable about a vertical axis, agitating elements connected to said shaft means and located in the compartments of said tub extending upwardly from a position closely adjacent to the bottom thereof so as to prevent the entry of clothing therebeneath for effecting the simultaneous agitation of the contents of said compartments, and operating means for said shaft means.

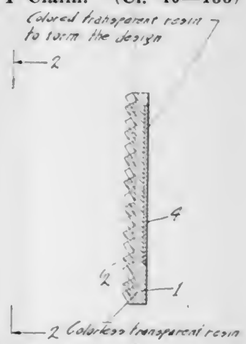
2,167,148
REFUSE COLLECTING VEHICLE
Herman C. Frentzel, Jr., Shorewood, and Carl G. Novotny, Milwaukee, Wis., assignors to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application June 13, 1938, Serial No. 213,364
8 Claims. (Cl. 214—67)

1. In combination, a vehicle having a tiltable load receiving body and an inclined tiltable tail gate at the delivery end thereof, a conveyor having an endless series of material transporting flights movable over said body and upwardly along said tail gate, fixed supporting rails for



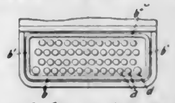
the edge portions of said conveyor forming open loops near the lower end of said wall, and means for delivering material through said rail loops on top of said flights while in motion and while travelling toward said inclined tail gate.

2,167,149
TOTAL REFLECTING PRISM SHEET
Walter F. Grote, Mount Washington, Ohio, assignor to The National Colortype Company, Bellevue, Ky., a corporation of Kentucky
Application August 20, 1937, Serial No. 160,125
1 Claim. (Cl. 40—135)



A new article of manufacture comprising a reflector having a cube prism sheet providing light reflecting surfaces and formed on one face, and a colored design sheet comprising light reflecting metal integral with the opposite face and covering at least a part of said face whereby light directed onto said reflector will be reflected so as to bring out the color of the design and outline it to produce a distinctive configuration.

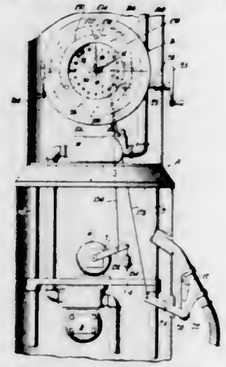
2,167,150
KEYBOARD FOR TYPEWRITING MACHINES AND OTHER COMMERCIAL MACHINES
Erwin Otto Haberfeld, Berlin-Weissensee, Germany
Application August 3, 1937, Serial No. 157,166
In Germany August 31, 1936
2 Claims. (Cl. 197—100)



1. In a keyboard for a typewriting or other commercial machine, the combination with the banked set of character-bearing keys normally requisite for such a machine, of a space key effectively operable independently of said character-bearing keys and positioned to extend in the form

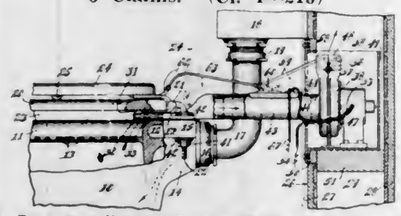
of a U along the front and both sides of said set of character-bearing keys, all portions of the upper face of said space key being spaced from and on the same level as the faces of the directly-opposite character-bearing keys so that said space key is accessible for operation independently of said character-bearing keys throughout its entire extent.

2,167,151
AUTOMATIC SIGNAL FOR DISPENSING PUMPS
Charles S. Hazard, New York, N. Y., assignor to Neptune Meter Company, a corporation of New Jersey
Application August 21, 1936, Serial No. 97,133
5 Claims. (Cl. 221—95)



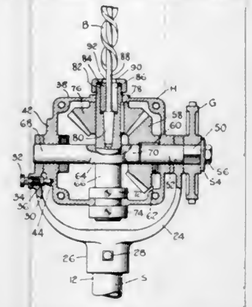
1. In a liquid dispensing device having a meter, an indicator actuated in accordance with the operation of said meter and movable away from an initial position in proportion to the quantity of liquid dispensed and means for resetting said indicator to said initial position; the combination of an iris shutter having a plurality of movable shutter leaves disposed in front of the indicator, movable means for selectively moving said shutter leaves to indicator covering and indicator exposing positions and control means actuated by said resetting means for limiting movement of said shutter moving means to a position wherein the shutter leaves cover the indicator until the indicator has been reset to initial position.

2,167,152
LAVATORY DEVICE
Ewald Henschler, Blue Island, Ill.
Application May 13, 1938, Serial No. 207,681
6 Claims. (Cl. 4—213)



1. In a ventilating device of the class described, a suction intake manifold supported between a seat having a cover and bowl, a suction member extending therefrom, a damper therefor, and means for simultaneously operating the damper and controlling the suction member upon opening the seat cover.

2,167,153
ELECTRICIAN'S DRILL
Abraham Hirsch, Brooklyn, N. Y.
Application October 1, 1936, Serial No. 103,486
4 Claims. (Cl. 144—105)



1. A drill comprising an elongated support, a gear housing oscillatably received at the upper end of said support, a sprocket gear mounted outside said housing on a shaft concentric with the axis of oscillation of the housing, a manual pull chain extending around said sprocket gear, manually releasable means for fixing the angular adjustment of the housing relative to the support, and a chuck shaft extending out of said housing and adapted to receive a conventional bit, said chuck shaft extending transversely of and being geared to said sprocket gear shaft.

2,167,154
TYPE BED GIB
Samuel A. Huffman, Ben Avon, Pa., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application April 16, 1937, Serial No. 137,238
4 Claims. (Cl. 308—3)

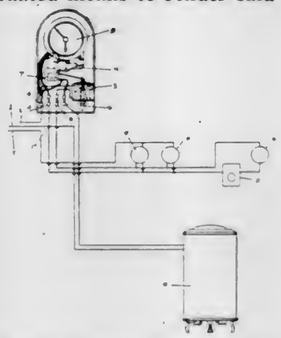


1. Means for maintaining a close running fit between the way-frame of a printing press and a bed reciprocable thereon composed of material having a thermal coefficient of expansion different from that of the material of which the frame is composed, comprising a gib fixedly mounted adjacent one side of said bed, a second gib movably mounted adjacent the other side of said frame, said gibs coöperating with said frame to guide movement of the bed thereover, and a thrust bar composed of material having a thermal coefficient of expansion substantially the same as that of the material of which the frame is composed and extending across the bed, for holding the movable gib in a predetermined position relative to the side of the frame.

2,167,155
AUTOMATIC LOAD CONTROL
Ira E. McCabe, Chicago, Ill.
Application August 5, 1936, Serial No. 94,333
3 Claims. (Cl. 219—38)

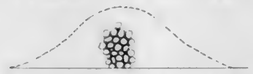
1. In a system of electrical distribution for a plurality of electrical devices including an electrically heated water heater and a source of electrical energy supply, a control for limiting the operation of the electric heater to periods when the operation of any or all of the other devices

does not exceed a maximum wattage including clock actuated means to render said control in-



operative during predetermined hours to cut out the electric heater.

2,167,156
METHOD OF PREPARING CONCRETE
Martin A. Morrissey and Almer F. Moore, Brighton, Mass., assignors of one-fourth to Oliver United Filters Incorporated, San Francisco, Calif., a corporation of Nevada
Application February 26, 1935, Serial No. 8,232
1 Claim. (Cl. 259—149)



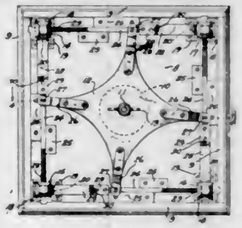
A method of making concrete in accordance with the water-cement ratio strength law comprising wetting the sand content of the aggregate substantially beyond the neutral point; subjecting the sand so wetted to the action of a vacuum filter until the water content of the sand has been brought back to the neutral point and then mixing a measured quantity of the sand so treated with measured quantities of the remaining ingredients of the mix.

2,167,157
FOLDING STEPLADDER
Karl O. Muehlberg, Manitowoc, Wis.
Application July 2, 1937, Serial No. 151,635
1 Claim. (Cl. 228—60)



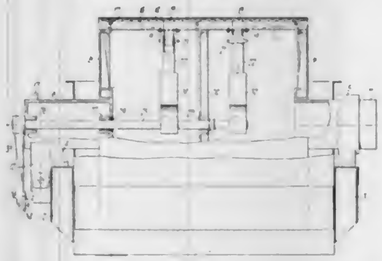
A stepladder, comprising a ladder member having side rails and a top platform, there being a tapered slot in the latter, supporting legs foldably connected with said platform, an elongated arm slidably mounted through the tapered slot in said top platform and normally disposed at an angle to vertical against a side of a supporting leg and in coincidence therewith, said arm being movable in the slot of the platform to a selected position of projection extending vertically above said platform, means on the upper end of said arm permitting the mounting of a receptacle when the arm is in a projected position, and means for releasably retaining said arm in either its lowered angular position against a leg or in a selected projected vertical position, the means for retaining the arm in a selected projected position and for mounting a receptacle on the arm being accessible and operable only when said supporting legs are extended for ladder supporting purposes.

2,167,158
FOLDING CARD TABLE
Karl O. Muehlberg, Manitowoc, Wis.
Application July 17, 1937, Serial No. 154,170
1 Claim. (Cl. 311—82)



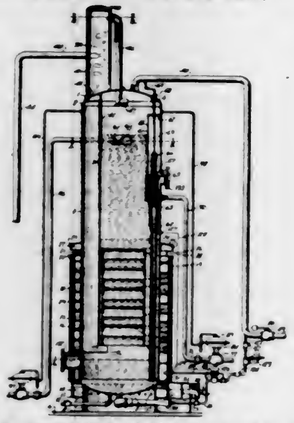
A folding table, comprising a top of substantially square form, a supporting leg adjacent each corner of the under surface of the top, a pivotal connection mounted on the under surface of the top at each corner thereof, the inner end of each leg being mounted on a pivotal connection, a gear mounted directly on the inner end of each leg, a rack for each leg, each rack being slidably mounted along a different side edge portion of the under surface of the top and being engaged with the gear of the adjacent leg, a plate rotatably mounted on the under surface of the top, spaced-apart, radially projecting arms integral with said plate, and a pin and slot connection between the outer end of each arm and an adjacent rack.

2,167,159
FILTER
William H. Oliver, Oakland, Calif., assignor to Oliver United Filters Incorporated, San Francisco, Calif., a corporation of Nevada
Application April 5, 1937, Serial No. 135,051
10 Claims. (Cl. 210—202)
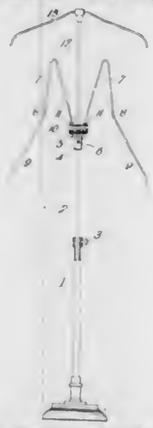


1. A rotary filter comprising: a plurality of filtrate compartments; a section of open ended flexible tubing secured to and communicating with each of said compartments; and a cam secured in the locus of said tubing and arranged to close said tubing upon relative movement between said filtrate compartments and said cam.

2,167,160
APPARATUS FOR TREATING LIQUIDS
Gwynne Raymond, Oklahoma City, Okla.
Application June 22, 1936, Serial No. 86,533
2 Claims. (Cl. 183—2.7)



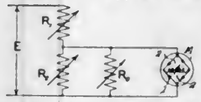
1. In an apparatus of the character described, a treating tank having a cylindrical wall, a flume extending downwardly in the tank and having a side thereof formed as a part of said cylindrical wall, means for delivering liquid to be treated to said tank through said flume, a burner chamber encircling the lower portion of the treating tank, a burner in said chamber, and a spiral flue connected with the burner chamber and encircling the tank for conveying products of combustion from the burner in heating relation with the wall of the tank to preliminarily heat the liquid delivered through said flume and to maintain the liquid in heated condition while undergoing treatment in said tank.

2,167,161
DRESS DISPLAY FORM
John D. Smith and Pearl B. McMillen, Kansas City, Mo.
Application February 12, 1938, Serial No. 190,240
3 Claims. (Cl. 223—68)



1. A garment display stand comprising a wire bent to loop form, a pedestal-supported clamp member rockingly receiving the wire loop, the opposite ends of the loop diverging upwardly to form a garment bosom-supporting element, and then diverging downwardly and outwardly to form a garment waist-forming blouse-supporting element, a standard secured to and rising centrally of the loop, and a garment shoulder-supporting element carried at the upper end of the standard above the bosom-support.

2,167,162
MULTIRANGE METER
Frederick E. Terman, Stanford University, Calif.
Application February 25, 1936, Serial No. 65,738
7 Claims. (Cl. 171—95)



1. A multirange electrical measuring system comprising, a source of electromotive force to be measured, a rectifier type meter, a multiplier network connected between the source of electromotive force to be measured and the said meter, said multiplier network comprising a variable resistor in series with, and a variable resistor in shunt with the said meter, the equivalent resistance of said network being so selected and constructed that it gives a desired ratio of

$$\frac{R_{eq}}{R_m}$$

wherein R_{eq} represents the equivalent resistance of the network, and R_m represents the resistance of a rectifier meter having the same current sensitivity as, but a higher resistance than, the rectifier meter normally used in the system, and an additional resistance shunting said rectifier meter, whereby adjustment of the additional resistance accomplishes compensation for the differential internal resistance of different rectifier meters to be used in the said system, and gives a predetermined overall sensitivity for the entire measuring system.

2,167,163
ARTIFICIAL FISH BAIT
Henry C. Toepper, Des Plaines, Ill.
Application March 14, 1938, Serial No. 195,690
5 Claims. (Cl. 43—39)

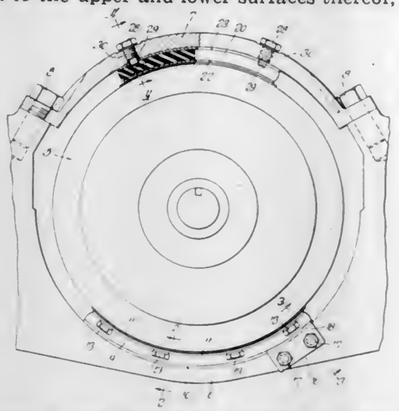


1. A lure comprising a substantially concavo-convex spoon member having means for securing a line to the forward end thereof, a tongue member integral with said spoon and extending from the concave surface thereof, a hook having its loop engaged by said tongue member adjacent the concave surface of said spoon member and extending to the rear and passing through a slot in the rear portion thereof and curving toward the concave surface of said spoon member, and a weed guard member engaged by said tongue member and extending adjacent the concave surface of the spoon and passing through a sheared loop in the forward portion of said spoon and then extending rearwardly from said loop toward the point of said hook.

2,167,164
MOTOR MOUNTING MEANS
Alfred O. Williams, Battle Creek, Mich., assignor to Clark Equipment Company, Battle Creek, Mich., a corporation of Michigan
Application May 21, 1937, Serial No. 143,888
4 Claims. (Cl. 248—26)

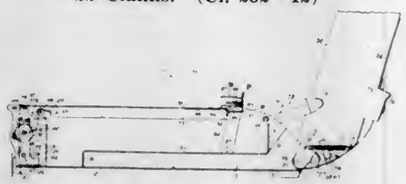
1. The combination, with a motor supporting

cradle having an arcuate cylindrical portion and provided with a removable arcuate cap adapted to be secured to the ends of said portion to complete a cylindrical opening, and a motor housing of cylindrical form and of a diameter slightly less than the diameter of said opening, of cushioning means between said housing and said cradle and cap each comprising a rubber member of arcuate form having thin metallic plates vulcanized to the upper and lower surfaces thereof, one



of each of said plates being rigidly secured to the motor housing, said cradle having a normally extending lip at one edge, the other plate of each cushioning means abutting against said lip, and means for holding said other plate against movement in a direction away from said lip, the thickness of said cushioning means being such that said rubber is compressed between said plates when said cap is secured to said cradle with the housing in position in said opening.

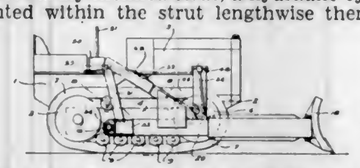
2,167,165
AUTOGRAPHIIC REGISTER
Clayton E. Wyrick, Wyandotte, Mich., assignor to The Egry Register Company, Dayton, Ohio, a corporation of Ohio
Application May 14, 1937, Serial No. 142,662
22 Claims. (Cl. 282—12)



1. In an autographic register, a writing support, a holder for holding a zigzag folded web, an aligning device for engaging said folds to align and lock said web, means for releasing said folds from locking engagement with said aligning device, and web-measuring means operated by the movement of the web and responsive to the withdrawal of a predetermined amount of said web for reengaging a fold thereof with said aligning device.

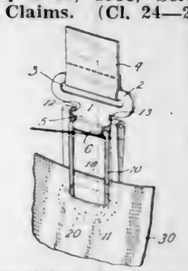
2,167,166
BULLDOZER
George S. Allin, Seattle, Wash.
Application July 26, 1937, Serial No. 155,729
1 Claim. (Cl. 37—144)

In a bulldozer, a tractor including track frames at opposite sides of a main frame, a blade mounting frame pivotally supported at its rearward end from the tractor and extending forwardly thereof for vertical oscillation at its forward end, a blade mounted by said frame, a truss mounted on the blade mounting frame near the pivoted end and comprising an upright member and a downwardly and forwardly inclined strut, a hydraulic cylinder mounted within the strut lengthwise thereof, a



sheave wheel fixed on the blade mounting frame at the lower end of the strut, a bracket fixed on the track frame and overhanging the said sheave wheel, a piston in the said cylinder, a cable attached to the bracket and extending beneath the sheave wheel and having fixed connection with the piston, and means operable to apply hydraulic pressure medium to the cylinder for controlling the piston movement for adjusting the position of the blade mounting frame.

2,167,167
SUPPORTER CLIP
John Benkert, Chicago, Ill., assignor of one-half to A. Howard Langert, Chicago, Ill.
Application April 11, 1938, Serial No. 201,255
3 Claims. (Cl. 24—250)



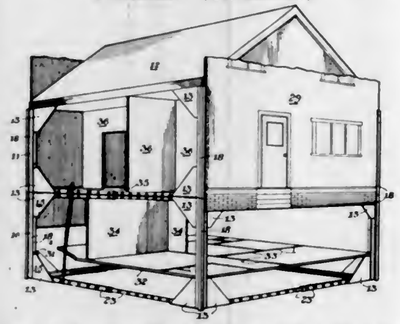
2. A clip comprising a mounting portion, a first clamping jaw pivoted thereto, said jaw having straight sides extending from the pivot and merging towards one another in a smooth curve continuous in one direction and forming a tip of the jaw remote from the pivot, a bar integral with the sides and extending from one straight side to the other adjacent the tip but with the bottom of the bar spaced from the top of the tip in a direction lengthwise of the jaw to form an aperture between the tip and the bar, a second jaw pivoted to the mounting portion about a pivot axis parallel to but spaced from the pivot axis of the first jaw, said second jaw being of less length and less width than the first jaw and extending from its pivot axis towards said aperture and into the same with one side of the second jaw exerting a pressure against the tip and the opposite side of the second jaw exerting a pressure against the bar.

2,167,168
PREPARATION OF ACETOACETIC ESTERS OF ALIPHATIC ALCOHOLS
Albert B. Boese, Jr., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York
No Drawing. Application July 17, 1936, Serial No. 91,113
14 Claims. (Cl. 260—483)

1. Process for preparing an acetoacetate, which comprises quickly mixing successive small portions of diketene with an aliphatic alcohol having at least three carbon atoms in the molecule, while maintaining the resultant mixture at an elevated temperature not substantially above 150° C., and separately recovering the acetoacetate thus produced.

14. As a new chemical compound, an acetoacetic ester of an organic hydroxy compound selected from the group consisting of the secondary and tertiary aliphatic alcohols.

2,167,169
HOUSE MODEL
Frank Bolhuis, Holland, Mich.
Application February 14, 1938, Serial No. 190,385
4 Claims. (Cl. 35—16)



1. In a structure of the class described, a corner rail adapted to be secured to and form a part of a skeleton frame, said rail having longitudinal parallel side flanges forming therebetween a panel receiving slot, one of said side flanges being adapted to be secured to a vertical surface of the frame, and a connecting middle portion forming with said vertical surface an angle of substantially forty five degrees whereby a pair of said corner rails may be secured to substantially right angularly intersecting vertical surfaces respectively with the said connecting middle portions of said pair of corner rails in flush contact.

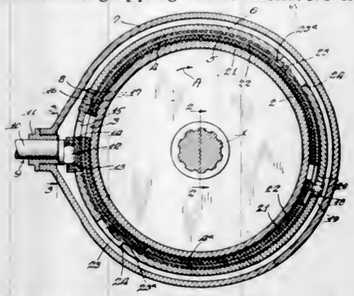
2,167,170
TIPPED CIGAR AND METHOD OF FORMING THE SAME
Herbert A. Burns, Forest Hills, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey
Application July 1, 1937, Serial No. 151,323
7 Claims. (Cl. 131—52)



1. A tipped cigar comprising filler tobacco, a binder wrapper about said filler to form a bunch, and a wrapper enclosing said bunch, said wrapper including a length of tip material secured to the flag portion, and forming an integral part of the wrapper blank as initially applied to said bunch.

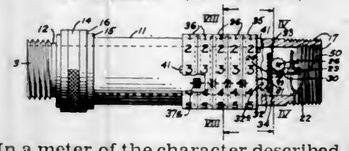
2,167,171
TRANSMISSION BRAKE
Adiel Y. Dodge, Rockford, Ill.
Application April 6, 1938, Serial No. 200,387
20 Claims. (Cl. 188—77)

1. A rotation controlling construction comprising a rotatable member having an external cylindrical grip surface, a plurality of arcuate gripping band members surrounding said grip surface spaced circumferentially from each other and engageable successively with the same portion of said grip surface and movable into and out of engagement therewith, an actuating band surrounding said gripping band members to which said gripping band members are secured so that contraction and expansion of the actuating band will move the gripping band members into and



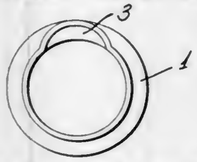
out of engagement with respect to said grip surface, means for moving one end of the actuating band circumferentially with respect to the other end to effect contracting and expanding movement of the actuating band, the connection of one of said gripping band members with the actuating band enabling circumferential movement of the actuating band member with respect to the gripping band, and opposed means for fixedly anchoring one end of each of said gripping band members against circumferential movement.

2,167,172
FLOW METER
Russel Estep, King City, Calif., assignor of one-half to Laurent Layous, King City, Calif.
Application June 19, 1937, Serial No. 149,149
10 Claims. (Cl. 73—231)



1. In a meter of the character described, a tubular housing having a bore of substantially uniform diameter, means for connecting said housing to a conduit as a continuation thereof, means disposed entirely within said bore and movable by fluid flowing therethrough proportionately with the quantity of fluid flowing therepast, and registering means actuated by said fluid-moved means, said registering means being arranged concentrically with and surrounding said housing.

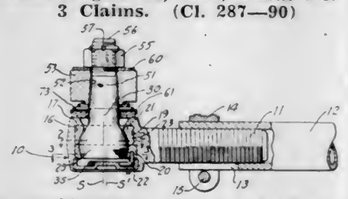
2,167,173
SHOTGUN BARREL
Harvey Fleming, San Diego, Calif.
Application March 29, 1937, Serial No. 133,563
1 Claim. (Cl. 42—79)



A shotgun barrel having a circular bore for the

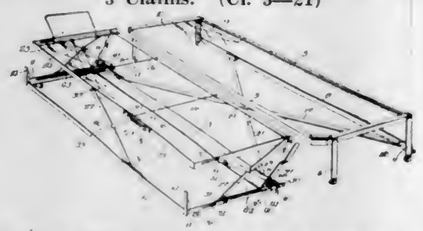
major portion of its length from the breech and a minor portion from thereon in which the cross sectional contour of the bore at all points is generally circular with a curved outwardly bulged portion on a part only of said minor circular contour portion extending from a maximum at the muzzle to and gradually tapering and merging into the circular contour as said major portion of the bore is approached.

2,167,174
JOINT
William A. Flumerfelt, Columbus, Ohio, assignor to The Columbus Auto Parts Company, Columbus, Ohio, a corporation of Ohio
Application August 18, 1937, Serial No. 159,739
3 Claims. (Cl. 287—90)



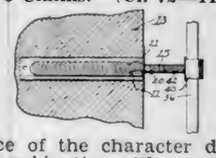
3. In combination, a member having a chamber; a ball shaped element positioned within said chamber and having a stem projecting therefrom; means in said chamber for limiting the extent of movement of said element in a direction of said stem; an annular bearing member interposed between said chamber wall and the ball shaped element, said bearing member having an inner surface curved for embracing a portion of said ball shaped element and having its outer surface circumferentially curved eccentrically with respect to the center of curvature of said inner surface; and resilient means located in said chamber acting upon the eccentrically curved annular member for moving the same to wedgingly engage said ball shaped element.

2,167,175
STUDIO COUCH
Martin Fox, Chicago, Ill., assignor to The Seng Company, Chicago, Ill., a corporation of Illinois
Application October 9, 1936, Serial No. 104,795
3 Claims. (Cl. 5—21)



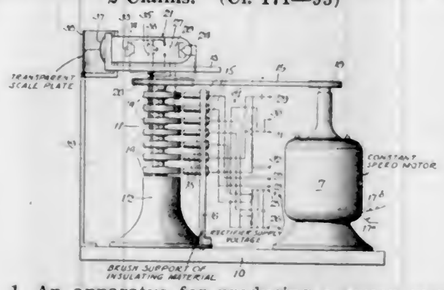
1. In a studio couch, a collapsible section having a lower frame and a raisable upper frame connected by opposite pairs of crossed levers pivoted intermediate their ends, each lever having a fixed pivotal connection at one end with one frame, and a pivoted and sliding connection at the other end with the other frame; an operating lever pivoted to the lower frame between the pivotal and sliding connections of the crossed levers with the frame and having a plate fixed to the lever and pivoted to a link connecting it to that end of the lever which has a pivoted and sliding connection with the lower frame for raising and lowering the upper frame; the pivotal connection of the link with plate of the operating lever being at one side of the pivotal connection thereof to move it past a connecting center line between the pivotal connection between the other end of the link and the pivoted end of the lever, and stop means carried by the adjacent crossed lever for engaging stop means on the operating lever and limiting its movement in one direction so that the upper frame is locked fixedly in its raised position.

2,167,176
WALL FASTENING
Karl P. Grassberger, West Allis, Wis.
Application September 16, 1937, Serial No. 164,174
6 Claims. (Cl. 72—118)



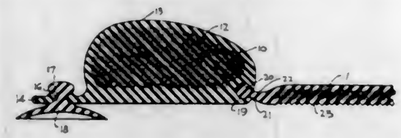
6. A device of the character described comprising the combination with an adjustable screw having a mutilated thread and a work support at its end, of a receptor in which said screw is freely adjustable in one rotative position of the screw and with which the screw is interlockingly engageable upon rotation to another position, said receptor comprising two complementary stampings having lateral flanges in mutual marginal connection and provided with complementary central channels to constitute a tube, said channels having opposing wall portions deformed to constitute internal thread means for engagement by said screw and an external anchorage for masonry.

2,167,177
MEANS FOR PRODUCING A SWEEP WAVE OPTICAL PICTURE WITH A CATHODE RAY TUBE
Butler J. Haskins, Chicago, and Henry Walter Mitchell, Waukegan, Ill., assignors to The Potter Company, a corporation of Delaware
Application December 4, 1936, Serial No. 114,198
2 Claims. (Cl. 171—95)



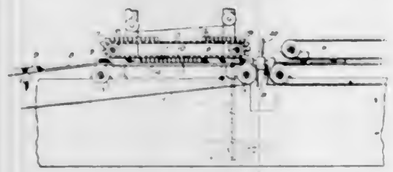
1. An apparatus for producing a sweep wave optical picture of the electrical and physical qualities of a device under test comprising the combination of a cathode ray tube, means for bodily revolving said tube at a constant rate of speed, a circuit for the tube for producing a stream of electrons against the end of said tube and for deflecting said stream in response to the electrical and physical qualities of the device under test, and a viewing screen having a scale thereon and through which screen the deflected electron stream is visible.

2,167,178
CUSHION SUPPORT
Marie M. Kohlstadt, Spokane, Wash.
Application October 10, 1938, Serial No. 234,199
1 Claim. (Cl. 4—185)



In combination, a head rest adapted to be secured to a bath tub, said head rest having an inner cushion of resilient cellular formation and having an outer impervious surface, tabs extending outwardly from the head rest and supporting suction cups therein, a channel groove in the lower bottom edge of the head rest, a cushion mat having an inner cushion of resilient cellular structure and an impervious surface, a bead along one edge of the mat engaging in the channel formed in the lower bottom edge of the head rest whereby the head rest and the mat may be detachably secured to each other.

2,167,179
PROPULSION MECHANISM FOR CONVEYERS
Curt G. Joa, Sheboygan Falls, Wis., assignor to Curt G. Joa, Inc., Manitowoc, Wis., a corporation of Wisconsin
Application August 25, 1938, Serial No. 226,625
9 Claims. (Cl. 271—2.1)



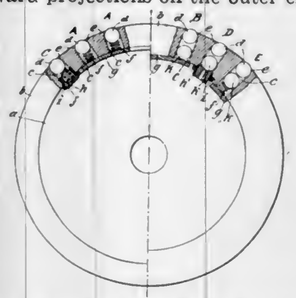
1. A propulsion device of the character described comprising a conveyer and spaced series of pressure blocks mounted thereon, together with co-acting means toward which the pressure of said blocks is directed whereby said blocks are adapted to engage to work under pressure against said means for the propulsion of such work.

2,167,180
BRUSHLESS SHAVING CREAM
Wolf Kritchevsky, Chicago, Ill., assignor to Rit Products Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application September 26, 1936, Serial No. 102,700
15 Claims. (Cl. 167—85)

1. A brushless shaving cream comprising a plastic emulsion of oleaginous and aqueous materials and containing a minor proportion of an aromatic sulphonate.

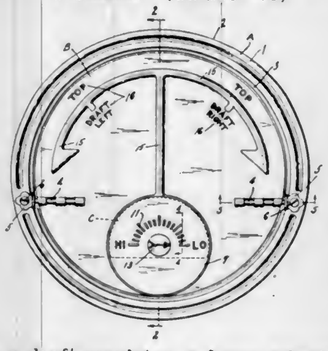
2,167,181
HAMMERING ROLLER WITH BALLS
Otto Michalk, Dresden, Germany
Application September 21, 1937, Serial No. 164,935
In Germany November 12, 1936
1 Claim. (Cl. 12—51)

A hammering roller for the manufacture of boots and shoes comprising, a cylindrical casing with radial channels, balls guided in said channels, inward projections on the outer end of said



channels to withhold said balls and a second ball behind said first ball for counteracting said balls in their channels substantially as described.

2,167,182
DRAFT REGULATOR
Clarence H. Morrow, Shaker Heights, Ohio, assignor to The Hotstream Heater Company, Cleveland, Ohio, a corporation of Ohio
Application September 21, 1936, Serial No. 101,786
4 Claims. (Cl. 236—45)

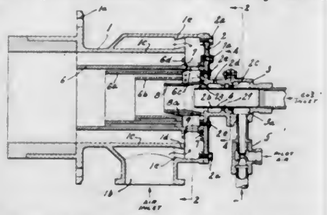


2. In a draft regulator, a frame adapted to be mounted adjacent an opening in a stack or the like, said frame having a face and a flange extending inwardly therefrom, said flange being recessed at peripherally spaced locations, a pair of clips mounted upon said frame, each clip having a face overlying said frame face and secured thereto, each clip having a perforated flange extending into one of said recesses, and a flutter having opposed pivot pins adapted to be received in the flange perforations, said clip flanges providing rotary bearings for said pivot pins and said frame flange providing endwise bearings for said pivot pins.

2,167,183
GAS BURNER
George F. Naab, Lakewood, and Otto Lutherer, Solon, Ohio, assignors to The North American Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application November 14, 1936, Serial No. 110,890
11 Claims. (Cl. 158—110)

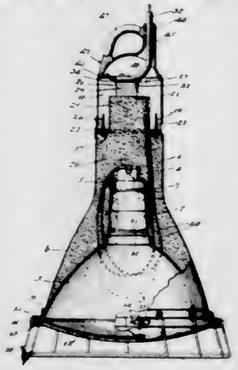
1. In a burner of the class described, means providing a stream of gas, means providing a supply of air for combustion of said gas, progressively about said stream, in increments having flow in the direction of said stream and of

progressively increasing velocities, and means providing a pilot flame immediately about said



stream adjacent the first of said increments to there initiate said combustion.

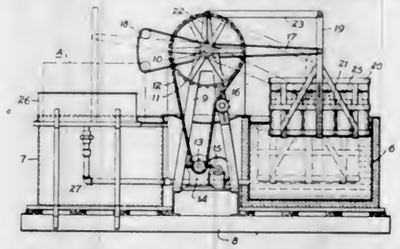
2,167,184
LIGHTING UNIT
Paul D. Phillips, Elmhurst, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application December 3, 1936, Serial No. 113,972
8 Claims. (Cl. 240—11.2)



1. A portable pendant dust-proof floodlighting fixture comprising a lamp socket for supporting a lamp with its axis in substantially vertical position, a concave reflector surrounding the bulb portion of the lamp and having an opening through which the lamp may be inserted upwardly into the socket, the upper end of said reflector being spaced a substantial distance below the lower end of the socket, a lens extending across the light aperture, a metal guard extending across and in front of the lens, a sheet metal concave casing surrounding the reflector and socket and coaxial therewith, a hood above said casing and socket having an opening for the feed wires, a sealing partition between the lamp chamber of the casing and the chamber of the hood having an opening affording access to the wiring terminals of the socket from above, a wiring terminal in said hood for connection with a ground wire electrically connected with said casing, and means for electrically connecting said wiring terminal with the hood comprising a spring clip bearing on the inside of the hood.

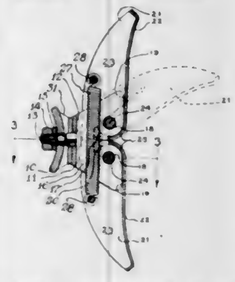
2,167,185
BOTTLE TESTING APPARATUS
Frank W. Preston, Butler, Pa.
Application January 6, 1938, Serial No. 183,637
7 Claims. (Cl. 73—51)

1. Apparatus for testing bottles and the like by thermal shock, which comprises a tank for hot water, a tank for cold water, a pivotally mounted arm having its outer end movable through an arcuate path, in a vertical plane, to points above the tanks, a basket pivotally connected to the said arm end, in position to be



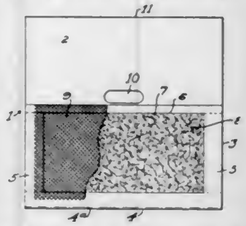
moved into the tanks through travel of the arm in said path, and a parallel link device having connection with the basket and maintaining it against swaying during said movements.

2,167,186
AUTOMOBILE BUMPER GUARD
John J. Riehl, Cleveland, Ohio
Application September 7, 1938, Serial No. 228,774
4 Claims. (Cl. 293—55)



1. A bumper guard, comprising in combination, a bracket member, vertical stops on the said bracket member, horizontal stops on the said bracket member, buffer members hinged to the said bracket member, the movement of which is limited to the said vertical and horizontal stops, and a means for retaining the said buffer members normally in line and at the said vertical stops.

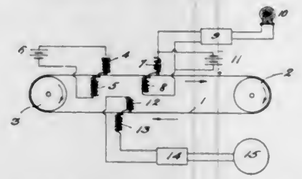
2,167,187
BUILDING BRICK AND WALL
Benjamin Roman, New York, N. Y.
Application February 23, 1938, Serial No. 191,980
11 Claims. (Cl. 72—45)



1. A building brick comprising the combination of an exterior solid portion having dimensions and weight of a regular exterior wall brick, another interior portion integral with said portion intended to form the interior side of a wall,

said latter portion being hollow and having windows on top, bottom, and sides thereof, and said hollow chamber and windows being filled with insulating material.

2,167,188
SOUND RECORDING AND REPRODUCING ELEMENT, AND MORE PARTICULARLY A PERMANENT MAGNET THEREFOR
Carl Schaarwächter and Alban Ruppelt, Altena, Germany, assignors to Vereinigte Deutsche Metallwerke Aktiengesellschaft, Frankfort-on-the-Main-Heddernheim, Prussia, Germany, a corporation of Germany
Application February 26, 1937, Serial No. 127,810
In Germany March 2, 1936
12 Claims. (Cl. 274—41.4)

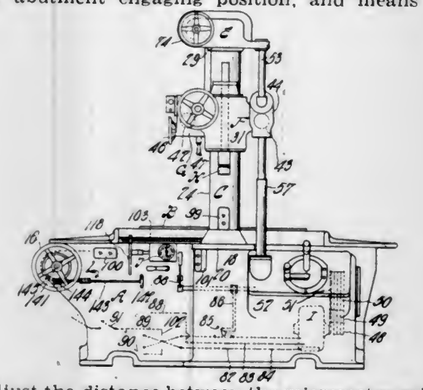


1. As a new article of manufacture an elongated sound recording and reproducing element having a worked structure and capable of being permanently magnetized, comprising a ductile alloy consisting of about 70% to about 87% of iron, about 10% to about 20% of nickel and the balance substantially copper and constituted of alpha iron crystals super-saturated with copper and nickel and having a gamma-alpha transformation at a temperature below the recrystallization temperature of said alloy and having an alpha-gamma transformation at a temperature higher than said gamma-alpha transformation temperature.

12. The process of producing an easily workable permanent magnet made of an alloy consisting of about 70% to about 87% of iron, about 10% to about 20% of nickel, and the balance substantially copper, and having a high hysteresis of the gamma-alpha transformation which comprises heating said alloy to a temperature higher than about 900° C., quenching the thus heated alloy whereby a uniform structure constituted of alpha-iron crystals super-saturated with copper and nickel is produced, cold-working said quenched alloy, subjecting the quenched alloy to repeated re-heating at successively increasing temperatures higher than the gamma-alpha transformation temperature to below the alpha-gamma transformation temperature, quenching the re-heated alloy after each re-heating, and subsequently subjecting the thus heat-treated alloy to a magnetizing force whereby a permanent magnet is produced having a coercive force of at least 30 oersteds.

2,167,189
MACHINE TOOL
Joseph Verderber, Cleveland, Ohio
Application February 27, 1937, Serial No. 128,201
6 Claims. (Cl. 77—4)

6. Positioning means for the table of a machine tool comprising in combination, a support, a table movable thereon having abutments spaced equally in the direction of its movement, a micrometer on said support having its spindle parallel to the direction of movement of said table, a rod within said support having a projection at one end thereof, means to oscillate said rod into and out of abutment engaging position, and means to



adjust the distance between the micrometer spindle and the projection.

2,167,190
METHOD OF SCREENING WELLS
William V. Vietti, Houston, Tex., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application May 29, 1937, Serial No. 145,561
3 Claims. (Cl. 166—21)



1. The method of completing an oil well provided with a casing, a string of tubing within said casing and a relatively coarse metal screen at the bottom end of said tubing, said screen having a by-pass at its lower end, which comprises pumping oil containing gravel in suspension downwardly between the casing and the tubing while maintaining the by-pass open, closing the by-pass when the oil containing the gravel reaches the well screen, whereupon the gravel is deposited around the screen, forcing the oil through the screen into the tubing and sealing the lower end of the casing from the tubing.

2,167,191
METHOD AND APPARATUS FOR SCREENING WELLS
William V. Vietti and Joe K. Butler, Houston, Tex., assignors to The Texas Company, New York, N. Y., a corporation of Delaware
Application February 25, 1938, Serial No. 192,535
3 Claims. (Cl. 166—21)

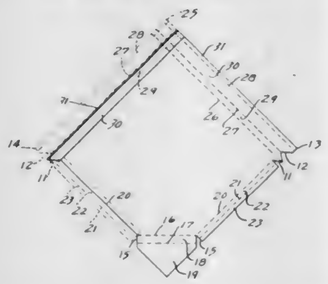
1. The method of placing granular material in

a bore hole so as to form a filter bed around a screen having lower perforate and upper imperforate areas and attached to a string of tubing, which comprises confining in a perforated envelope granular material circumferentially around the periphery of the screen, lowering the assembly of screen, envelope and granular material into the well, sealing the tubing string above the screen



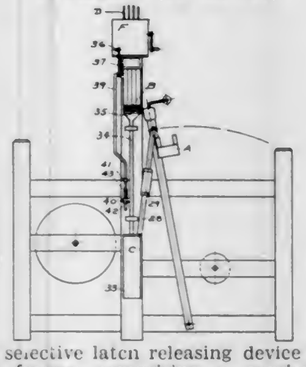
from the walls of the well so that sand passing into the well with the liquid to be produced will pass through the perforations in said envelope to corrode and wear away said envelope and then into said granular material, thus allowing the granular material to settle down in the bore hole around the perforate area of the screen from the space around the imperforate area of the screen.

2,167,192
SHINGLE
William C. Weber, Birmingham, Ala., assignor of one-half to Standard Roofing Company, Birmingham, Ala., a corporation of Alabama
Application July 23, 1938, Serial No. 220,836
10 Claims. (Cl. 108—17)



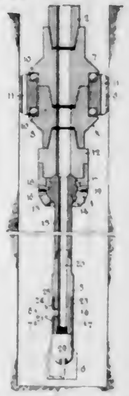
1. A metallic shingle formed of substantially square stock having at its butt corner an underlocking lip, having along its lower side edges underlocking bent flanges, and having its upper edges bent up to form overlocking flanges which are overlapped to form the top corner of the shingle and in each of which the metal is folded first upwardly and over upon itself to provide an inwardly opening lock pocket and then an outwardly extending trough element, a single nailing sight being provided at said top corner outside of the overlapped lock pockets.

2,167,193
LOOM
Eric S. Wessborg and William J. Morrison, Saginaw, Mich., assignors to The State of Michigan as represented by the Attorney General
Application February 7, 1938, Serial No. 189,158
11 Claims. (Cl. 139—33)



10. A selective latch releasing device for loom harness frames comprising a carrier having tappets individually movable thereon and interchangeably arranged in spaced relation in longitudinal rows, means for imparting stepwise movement to said carrier, mechanism actuating said carrier to bring tappets of each row into position against corresponding latches and comprising a longitudinally movable bar operated by the beater of a loom and connected by pawl and ratchet devices to said carrier, a snap action striker actuated by said bar to impinge upon all tappets of a row thus positioned, thereby causing all of that row to release appropriate harness frame latches.

2,167,194
APPARATUS FOR DEFLECTING DRILL HOLES
Alexander Anderson, Fullerton, Calif., assignor, by mesne assignments, to Lane-Wells Company, Los Angeles, Calif., a corporation of Delaware
Application March 14, 1936, Serial No. 68,941
13 Claims. (Cl. 255—1)



1. In well-drilling apparatus, a drill string having an internal water-course extending lengthwise thereof and a passageway including a lateral discharge orifice situated in the vicinity of the lower end of said drill string, said orifice being in communication with said water-course, and a valve mechanism operable to open and close the passageway which includes said orifice, said valve mechanism being actuable by rotating said drill string.

2,167,195
PROTECTIVE PAD
Solomon Ash, Bronx, N. Y.
Application June 30, 1938, Serial No. 216,721
1 Claim. (Cl. 45—68.4)



In a protective pad for tables or the like, a plurality of pad sections having overlapping flanges, each pad section comprising a plurality of plies united to form a firm protective body and a flange along an edge of said body formed of fewer plies than said body, interlocking means at the overlapping flanges of adjacent pad sections comprising a plate of a substance materially harder than the substance of said plies clamped between the plies of the body portion of each pad section for interlocking adjacent pad sections, each of said plates having an interlocking member projecting over the flange of the section, the interlocking member of a flange of one section forming an elongated interlocking groove extending substantially parallel to the edge of said section, the cooperating interlocking member of the adjacent section forming an interlocking projection fitting into said interlocking groove and locked in said groove against lateral and longitudinal motion, said plates and the associated interlocking members lying between said flanges in substantially the same plane.

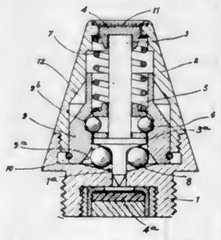
2,167,196
COMBINED BRUSH AND SCRAPER
Jack E. Bothum, Laramie, Wyo.
Application August 23, 1937, Serial No. 160,504
1 Claim. (Cl. 15—236)



An article of the kind described, comprising an elongated substantially rectangular shaped stock forming a head having an upper longitudinally dished side, a stem at one end of the head and curved away from its dished side, the dished side of the head being concaved on opposite sides of the dished area thereof, and reversely beveled longitudinal side edges formed on said head diverging upwardly and coacting with the concaved formations for forming outwardly divergent continuous scraper blades and for effecting knife edges to the said blades.

2,167,197
FUSE FOR ROTATIVE PROJECTILES
Edgar William Brandt, Paris, France, assignor to Sageb, Société Anonyme de Gestion et d'Exploitation de Brevets, Fribourg, Switzerland, a corporation of Switzerland
Application November 2, 1937, Serial No. 172,478
In Rumania November 12, 1936
2 Claims. (Cl. 102—39)

1. A combined percussion and self-destruction fuse for projectiles fired in rifled guns, comprising a fuse body, firing members in said fuse body and including a striker and a primer, said firing members being adapted to be urged against each other through direct action of an obstacle encountered by the projectile on its trajectory, locking members interposed between said firing members, a sleeve surrounding said locking members for maintaing the same in locking position, a hammer adapted to slide in the fuse body for engaging one of said firing members whereby to thrust the firing member against the other of said firing members to produce self-destruction of the projectile, said hammer being provided with laterally extending holes, centrifugal catching members lodged in said holes and adapted to slide therein, a spring urging said hammer into engagement with the firing member with which it cooperates, said sleeve being provided with a groove with which said centrifugal catching members are adapted to engage under the effect of centrifugal force caused by the gyratory motion of the projectile, said centrifugal catching members being adapted to remain engaged with the holes in said hammer and also with the groove in said sleeve during a

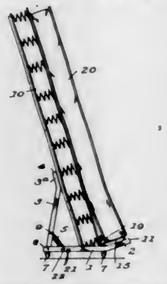


given part of the trajectory while the rotative speed of the projectile is greater than a predetermined value and said catching members being subsequently moved away from said groove by said spring when the speed falls below the predetermined value under the braking action of the fluid through which the projectile travels whereby the hammer is freed and pushed by the spring into engagement with one of the firing members whereby to thrust it against the other of said firing members, said sleeve being formed with faces adapted to be engaged by said locking members and to cooperate therewith to effect sliding movement of the sleeve under the action of the centrifugal force of said locking members, said fuse body having an internal surface corresponding in shape to the external surface of said sleeve, and said sleeve being adapted, when in armed position, to engage throughout its entire external surface with the corresponding internal surface of said fuse body whereby to obtain a pneumatic braking effect by the sliding movement of the sleeve delaying the arming of the fuse until after the projectile has travelled a certain distance beyond the muzzle of the gun.

2,167,198
DISPLAY STAND
Harry Brownstein, Warren, Ohio, assignor of one-half to Samuel Mark London, Girard, Ohio
Application May 12, 1937, Serial No. 142,245
3 Claims. (Cl. 211—28)

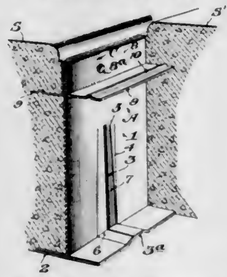
1. A display rack for supporting a mattress or spring body in upstanding position, comprising a horizontal rectangular metallic frame disposed close to the floor level adapted to support the body at the front portion thereof with a rearward inclination, a second metallic frame pivot-

ally connected to the rear end of said first frame and adapted to extend upwardly therefrom with an adjustable inclination, said second frame embodying a horizontal bar for supporting the body



at a portion thereof resulting in a stable mounting thereof, and adjustable means connected to said two metallic frames for varying their relative inclination.

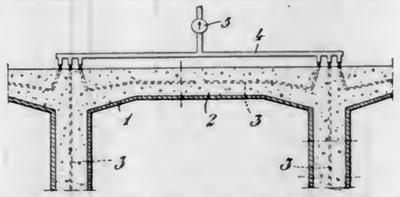
2,167,199
CONTRACTION JOINT
Alexander Carnie, Youngstown, Ohio, assignor to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan
Application January 3, 1938, Serial No. 183,210
2 Claims. (Cl. 94—18)



1. A contraction joint including a single substantially vertical plate and a horizontal base, said plate being provided with a plurality of vertical crimps laterally spaced below its upper edge while said upper edge remains straight to compel a straight line of cleavage transversely of the road, and said base being provided with upwardly pressed crimps to prevent the base from rocking and provide a firm support for the plate, said crimps in the base being located at the bottom of the crimps in the plate and together therewith providing means for shortening the lower chord of the plate and to impart a curvature to the upper edge thereof on substantially the same radius as the curvature of the base.

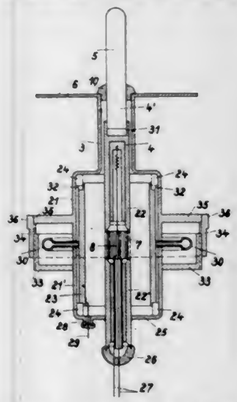
2,167,200
METHOD OF MANUFACTURING CEMENT CONCRETE
Amund Birger Carl Dahlberg, Appelviken, Stockholm, Sweden
Application February 23, 1937, Serial No. 127,222
In Sweden February 29, 1936
2 Claims. (Cl. 25—154)

1. The method of forming structures of concrete comprising securing a system of water pervious conduits in the form so as to extend substantially throughout all parts of the form, and with a connection portion extending outside the form, pouring wet concrete mass containing more water than is required for the setting into the form about the conduits and removing the excess water from the mass by drawing it out by suction applied to the conduits through the connec-



tion portion before the setting so that the concrete in wet fluid condition is expeditiously molded while excess moisture is not present during the setting and permitting the concrete to set with the conduits embedded therein.

2,167,201
ELECTRON TUBE
Walter Dällenbach, Berlin-Charlottenburg, Germany, assignor to Julius Pintsch Kommanditgesellschaft, Berlin, Germany
Application June 22, 1936, Serial No. 86,676
In Germany June 28, 1935
6 Claims. (Cl. 250—27.5)



1. An electron tube for working with ultra-high-frequency electromagnetic oscillations, comprising a resonator including electrodes, the resonator being surrounded by a vacuum vessel consisting of two parts connected together by a yielding wall, the proper frequency of the resonator being variable by a movement of said parts.

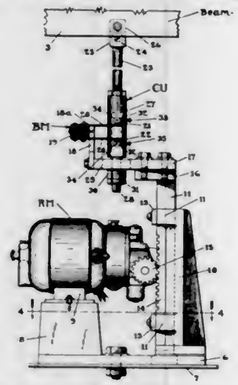
2,167,202
FIBER
Stephen P. Gould and Earle O. Whittier, Washington, D. C.; dedicated to the free use of the People in the territory of the United States
No Drawing. Application May 28, 1938, Serial No. 210,788
12 Claims. (Cl. 18—54)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method for producing insoluble flexible fibers, which includes extruding a dispersion comprising skimmed milk, casein added in such an amount as to raise the total protein concentration of the dispersion to between 6 per cent and 25 per cent, a plasticizer, which is compatible with the skimmed milk-casein dispersion, and alkaline earth compounds; thence subjecting the dispersion in the form of fine streams to the action of a precipitating bath, comprising an acid, whereby insoluble flexible fibers are precipitated.

2,167,203
PROCESS OF MANUFACTURE OF KETONES AND ALCOHOLS FROM OLEFINS
Henri Martin Emmanuel Guinot, Niort, France, assignor to Usines de Melle, Melle, Deux-Sevres, France, a corporation of France
No Drawing. Application March 24, 1937, Serial No. 132,871. In France March 28, 1936
7 Claims. (Cl. 260—597)

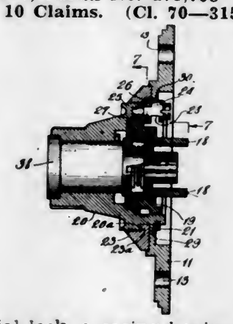
1. A continuous process of manufacturing a mixture of ketones and alcohols from olefins comprising essentially treating an olefin with hypochlorous acid to produce the corresponding chlorhydrin, neutralizing the hydrochloric acid thus formed with a first mass of caustic alkali, separating said chlorhydrin from the resulting alkali chloride, treating said chlorhydrin with a second mass of caustic alkali, separating the resultant alkylene oxide from the alkali chloride thus formed, catalytically hydrogenating said alkylene oxide to give a mixture of ketones and alcohols, subjecting the alkali chloride formed from said first and second masses of caustic alkali to electrolysis to give chlorine hydrogen and caustic alkali, reusing said chlorine in said process as hypochlorous acid to treat further amounts of said olefins, reusing said hydrogen to convert further amounts of said alkylene oxides into ketones and alcohols and reusing said caustic alkali for neutralizing further quantities of said hydrochloric acid and for treating further quantities of said chlorhydrin.

2,167,204
AUTOMATIC BEAM STOP
Harlan A. Hadley, St. Johnsbury, Vt., assignor to Fairbanks, Morse and Company, Chicago, Ill., a corporation of Illinois
Application December 9, 1937. Serial No. 178,846
20 Claims. (Cl. 265—49)



10. Automatic beam stop mechanism cooperating with the beam of a scale, comprising a beam stop member associated with the beam and adapted to limit the free travel thereof, beam stop control means attached to the beam stop member and adapted to automatically follow the balancing movement of the beam, beam stop operating means yieldingly connected to the beam stop control means, a slidable toothed actuating rack co-operating with the said operating means, and automatically controlled electric means driving an actuating pinion engaging the said toothed rack and co-operating therewith in operating the said beam stop control means.

2,167,205
COMBINATION LOCK
Frederic K. Heyer, Stamford, Conn., assignor to The Yale & Towne Manufacturing Co., Stamford, Conn., a corporation of Connecticut
Original application December 5, 1933, Serial No. 700,995. Divided and this application November 10, 1937, Serial No. 173,768
10 Claims. (Cl. 70—315)



1. In a dial lock, a casing having combination lock mechanism therein, a dial body in the form of a hand knob for operating said mechanism, a figured index ring, said ring being rotatable on said body, said dial body and index ring being mounted for rotation at the front side of said casing, a detent member adapted to prevent rotation between said index ring and said dial body, said detent being movable by a tool inserted into said casing from the rear side thereof whereby to release said body and ring for rotation relatively to one another, said casing having an opening in a predetermined position for the passage of said tool.

2,167,206
PROCESS FOR IMPROVING DRYING PROPERTIES OF OILS
Theodore S. Hodgins, Royal Oak, Mich., assignor to Reichhold Chemicals, Inc., formerly Beck, Koller & Company, Inc., Detroit, Mich.
No Drawing. Application November 16, 1938, Serial No. 240,858
4 Claims. (Cl. 260—406)

1. A process for improving the drying quality of raw oils containing naturally occurring antioxidants, which comprises removing the antioxidants by treating the oils at substantially room temperature with an organic oxidizing agent comprising benzoyl peroxide in the proportion of about 1% by weight of the oxidizing agent as compared with the weight of the oil being treated, maintaining the pH value of the treating solution on the acid or alkaline side throughout the treatment by the addition of 1–5% by weight of an acid or alkaline reagent, continuing the treatment until the refractive index begins to increase, and separating the treated oil from the other constituents.

2,167,207
WINDSHIELD WIPER
Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.
Application March 11, 1935, Serial No. 10,523
6 Claims. (Cl. 15—245)

1. A window wiper having a holder with resili-

ently connected squeegee supporting parts, and a flexible squeegee having terminal connectors engaged with said parts with one edge supported



under tension thereby in a plane beyond the supporting parts for wiping contact with the surface to be cleaned.

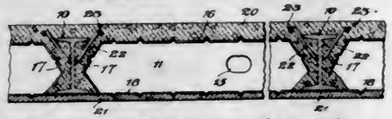
2,167,208

FLOOR OR ROOF CONSTRUCTION

Meier G. Hilpert, Bethlehem, Pa.

Application February 3, 1937, Serial No. 123,932

18 Claims. (Cl. 72—71)



11. A pre-fabricated unit for the reinforcement of floors, roofs and the like formed from plastic material, said unit comprising laterally spaced joists, and foraminous metal attached to said joists and extending across the space between the tops of said joists and downwardly across the upper portions of the spaces between the ends of said joists.

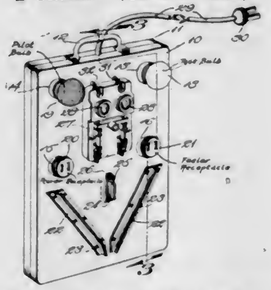
2,167,209

ELECTRIC BOARD TESTING APPARATUS

Lloyd E. Huskey, Waterbury, Md.

Application October 28, 1936, Serial No. 108,084

1 Claim. (Cl. 175—183)



In electric testing apparatus, a panel, a pilot socket, a test socket, a power socket, a feeler socket, distinctively colored bulbs in the pilot and test sockets, receptacles in the power and feeler sockets, a pair of diverging metal plates on the panel below the sockets adapted to be bridged by devices to be tested, a double pole switch on the panel between the sockets, a current supply cord connected to the switch, a pilot circuit comprising a wire connected to one pole of the switch and to one terminal of the pilot socket, a wire connected to the other terminal of the pilot socket and to one terminal of the test socket, a wire connected to the just mentioned terminal of the test socket and to the other pole of the switch, said wires energizing the pilot bulb while the switch is closed, a fuse testing circuit comprising a wire connected to the same terminal of the pilot socket to which the first mentioned wire is connected and connected to one terminal of the power socket, a wire connected to the just mentioned terminal of the power socket and to one of said diverging bars, a wire connected to the other of said bars and connected to one terminal of the feeler socket, a wire connected to the just mentioned terminal of the feeler socket and to the remaining terminal of the test socket, the second named wire of the pilot circuit being connected to the remaining terminal of the power socket to connect the power socket in parallel with the pilot socket and form a power supply circuit, and a wire connected to the first mentioned one of the diverging bars and connected to the remaining terminal of the feeler socket to provide a feeler circuit for testing cords of electric utensils.

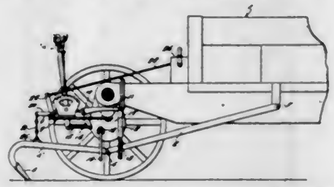
2,167,210

LISTER PLOW

Frank J. Imsick, Ewing, Nebr.

Application December 5, 1938, Serial No. 244,096

2 Claims. (Cl. 97—47)



1. A tractor lister comprising a pair of bars pivotally connected at one end to an intermediate portion of the tractor and extending downwardly and rearwardly therefrom, a bar mounted transversely on the rear end portion of the tractor, a pair of substantially U-shaped guides depending from the transverse bar, a pair of beams pivotally connected to the other ends of the first named bars and operable in the guides, subsoilers mounted on said beams, a base mounted on the rear end portion of the tractor, a transverse shaft journalled on said base, a pair of arms fixed on the end portions of said shaft, links pivotally connected to the free end portions of said arms and depending therefrom and adjustably connected to the free end portions of the first named bars, a hand lever pivotally mounted on the base, another arm fixed on the shaft, a link operatively connecting the second named arm to the lever for operatively connecting the first named bars to said lever for raising and lowering thereby, and means operatively connecting the beams to the power drum of the tractor for lifting the subsoilers.

2,167,211

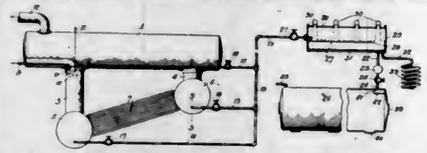
METHOD OF DISTILLING

Ulysses S. Jenkins, St. Louis, Mo., assignor, by mesne assignments, to Jenkins Petroleum Process Company, Chicago, Ill., a corporation of Illinois

Application June 30, 1924, Serial No. 723,144

29 Claims. (Cl. 196—55)

1. A process of cracking higher boiling point hydrocarbon oils to form lower boiling point hydrocarbon oils which comprises subjecting a body of oil to be cracked to distillation in a container under superatmospheric pressure and at a cracking temperature, feeding into said body of oil during said process charging stock consisting of oil commingled with particles of a finely divided adsorptive material, adsorbing with such divided material the particles of carbon-forming substance in the cracking oil, maintaining the particles of divided material in a dis-



persed condition throughout the oil and withdrawing during said process a portion of the oil containing such dispersed adsorptive particles carrying the adsorbed substance; the amount of adsorptive material in the oil fed in and the amount of such material carrying the adsorbed substance in the oil withdrawn being so regulated as to maintain the body of oil undergoing distillation below that point of saturation with such material as would otherwise cause deposition of such material upon the heating surfaces of the container.

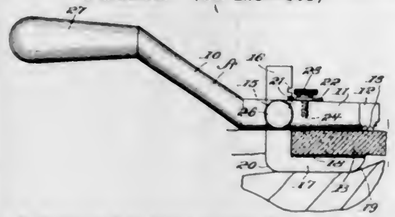
2,167,212

CAST CUTTER

Edward J. Johnson, Chicago, Ill.

Application September 16, 1938, Serial No. 230,309

2 Claims. (Cl. 128—305)



1. A device of the character described comprising an arm, an extension on said arm, the latter being angled relative thereto, a rounded fulcrum cross head on the extension, a cutting blade substantially parallel with the extension and slidably fitted therewith, a rack forming a part of the cutting blade, a latching disk fitted on the extension and releasably engaging said rack, means for holding the disk in engaging and disengaging positions, and means for locking the blade in its adjusted position.

2,167,213

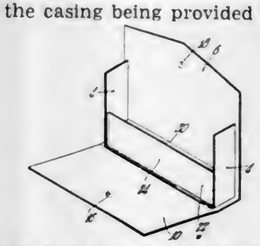
MANICURE OR SEWING KIT OR THE LIKE

Stuart S. Joslyn, Chester, Conn., assignor to Hamilton C. Bates, Chester, Conn.

Application February 4, 1938, Serial No. 188,714

5 Claims. (Cl. 206—1)

1. A kit of the class described comprising in combination, an upstanding U-shaped relatively rigid frame member consisting of a horizontal bottom wall and vertical end walls, and a casing including a horizontal bottom part and side walls hingedly connected to opposite sides of said bottom part, and connections between one of said side walls and said end walls of the frame member, the other side wall being free to swing towards and away from said end parts, said bottom part of the casing being provided with a pair of



spaced slits and a portion of the bottom wall of the frame member being received therein.

2,167,214

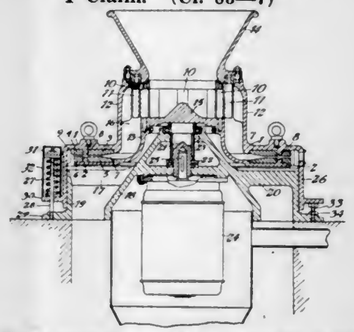
APPARATUS FOR SHREDDING ALKALI CELLULOSE OR LIKE FIBROUS MATERIALS

Albert Lasch, Stuttgart Bad Canstatt, and Eugen Eppler, Stuttgart, Germany, assignors to Baker Perkins Company, Inc., Saginaw, Mich., a corporation of New York

Application December 14, 1938, Serial No. 245,592

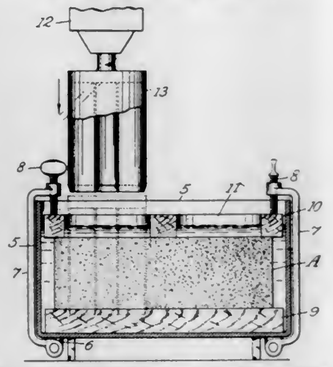
In Germany December 13, 1937

1 Claim. (Cl. 83—7)



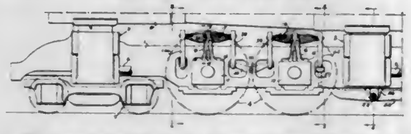
A mill for shredding alkali cellulose or similar light fibrous material comprising in combination a machine base, a power-driven vertical stub-shaft journaled in said base, a rotor comprising a smooth-surfaced hub of substantial height concentrically mounted upon said stub-shaft, an annular shredding element presenting an upwardly directed annular working face mounted adjacent the periphery of said rotor, a housing for said rotor mounted upon said machine base, an annular shredding element in said housing cooperatively opposing the working face of the shredding element on said rotor and defining therewith a radially directed shredding slot, pre-tearing apparatus positioned above the plane of said shredding element comprising upstanding tools spaced in a circle upon the end of said hub, and cooperative concentrically arranged stationary tools mounted upon said housing exteriorly of the tools on said rotor, said hub above said shredding slot being diametrically smaller than the circle of said stationary tearing tools and defining with said housing a substantially vertical annular passage of substantial capacity which at its upper extremity surrounds the circle of the pre-tearing tools to receive material discharged therefrom and leads directly downward to the entrance of said shredding slot, said annular passage serving as a reservoir for material discharged from said pre-tearing apparatus to equalize the flow of material and deliver it to the entrance of said shredding slot by gravity alone, and means for feeding material within the circle of tearing tools on said rotor.

2,167,215
SPONGE RUBBER ROLLER AND METHOD OF MAKING THE SAME
James W. Leary, Bloomfield, N. J., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application April 24, 1937, Serial No. 138,719
4 Claims. (Cl. 164—17)



1. The method of forming a symmetrical cylindrical roller from sponge rubber for use in the feeding mechanism of a cigarette machine, said sponge rubber being characterized by a multiplicity of irregular voids throughout its mass, defined by delicate walls highly compressible and resilient, the method consisting in submerging the unformed mass of sponge rubber in water to form a frozen body of water extending within the cellular voids, embracing and supporting said delicate walls against deformation by compression, and finishing, with ordinary machine tools, from said frozen mass an elongated cylindrical solid having an axial bore, while said cellular material is so interpenetrated, with said walls embraced and supported by said frozen body, and melting said frozen body, leaving said sponge rubber in the form of a truly cylindrical roll.

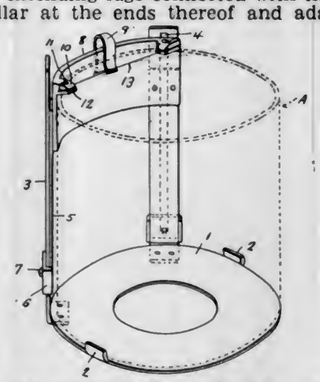
2,167,216
FOUR CYLINDER LOCOMOTIVE
James C. Maris, Glenolden, Pa.
Application March 27, 1937, Serial No. 133,407
5 Claims. (Cl. 105—82)



1. In combination, a locomotive having a single rigid frame with forward and rear cylinder structures and sets of drivers driven respectively from said cylinder structures, driving spring systems, one of which is located between said forward and rear cylinder structures and the other of which is located rearwardly of said rear cylinder structure, and equalizing means connecting said spring systems.

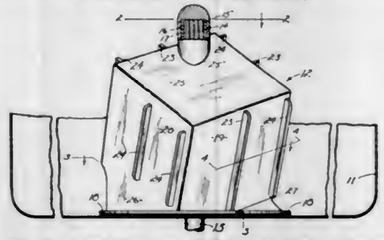
2,167,217
ICE CREAM CAN HOLDER, LIFTER, AND SCRAPER
Herschel L. Milligan, Nashville, Tenn., assignor of one-half to James B. Cook, Nashville, Tenn.
Application September 24, 1937, Serial No. 165,602
1 Claim. (Cl. 220—90)

A container holder comprising a flat base part, forming a seat for a container, a pair of uprights connected at their lower ends to edge portions of the base part, a substantially semi-circular collar connected to the upper ends of said uprights, inwardly extending lugs connected with the top of the collar at the ends thereof and adapted to



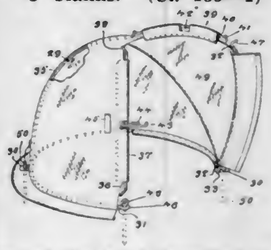
engage top portions of a container, each last-mentioned lug having a slit therein, a wire having its ends passing through the slits, and means for holding the ends of the wire in said slits with the wire extending taut between the lugs.

2,167,218
AGITATOR FOR WASHING MACHINES
Jabez Curry Nelson, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application November 15, 1935, Serial No. 49,985
6 Claims. (Cl. 68—134)



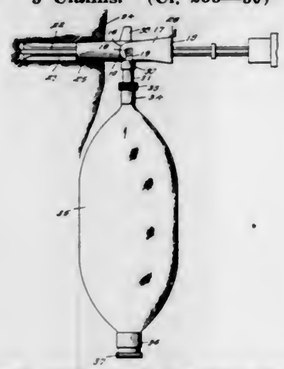
1. In a washing machine of the submerged oscillating agitator type having a vat for containing washing fluid and clothes to be washed, an agitator having a parallelepipedal portion, and an axis of oscillation extending substantially between two apices of the parallelepipedal portion and in a substantially vertical direction.

2,167,219
FOLDABLE TENT
Elmer Sankey, Belle Fourche, S. Dak.
Application September 9, 1938, Serial No. 229,194
3 Claims. (Cl. 135—1)



1. A tent of the kind described comprising a foldable frame having a sectional base ring and a bow, an extensible fabric body forming a cover for the frame and having an entrance and exit opening therein, elongated laterally extending eyes at the end of said bow having the sections of the base ring swingingly connected therewith, the body being formed with openings for the said eyes through which the latter project, and anchoring pins engaged in said eyes for engagement in a foundation.

2,167,220
DUST COLLECTOR FOR DRILLS
John H. Schemel, Archbald, Pa.
Application November 29, 1937, Serial No. 177,117
3 Claims. (Cl. 255—50)



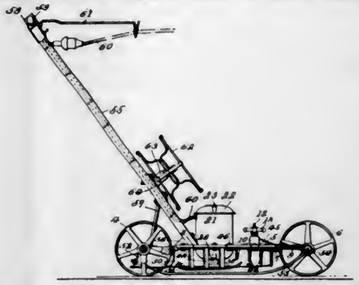
1. A dust collector for a drill comprising a nozzle-like body unit having an open inlet end and an opposite open drill-receiving end for the passing of the drill therethrough, an outlet nipple formed with said unit, a dust collector element, a separable coupling between the said element and the said nipple for communication through the latter from the said unit to the said element, means at the drill-receiving end of the said unit for effecting a seal between the drill and the said unit, lugs externally on the unit at opposite sides thereof, and a clamping yoke saddling the said means and sealing the drill-receiving end of said unit and having hook-like sides engageable with said lugs.

2,167,221
CASEIN PAINT
Herman A. Scholz, Oak Park, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application October 30, 1935, Serial No. 47,412
5 Claims. (Cl. 134—50)

1. Casein paint comprising casein, borax glass, sodium fluoride, calcium hydroxide, and a zinc sulphide pigment coated with a very small amount of a salicyl compound from the group consisting of salicylic acid, salicylic acid salts, salicylic acid esters, and salicylic acid amides.

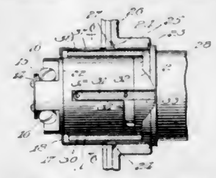
2,167,222
LAWN MOWER
Frederick L. Shelor, Sandston, Va., assignor to The Richmond Foundry & Mfg. Co. Inc., Richmond, Va., a corporation of Virginia
Application August 1, 1938, Serial No. 222,522
10 Claims. (Cl. 56—25)

10. A lawn mower comprising a supporting frame, a relatively long and narrow flexible cutting blade disposed beneath said frame, means located midway between the ends of said blade for supporting the same for rotation about an axis perpendicular to the frame, means carried by the frame for rotating the blade, and a weight mounted on the upper side of said blade ad-



jacent each end thereof, said weights operating when said blade is rotated at high speed to flex the outer end portions of the blade downward, said end portions of the blades being normally curved upwardly so that when said blade is rotated and flexed, the end portions will move in a plane substantially parallel with the plane of the frame.

2,167,223
SEPARABLE CONNECTOR
Nils A. Tornblom, Chicago, Ill., assignor to Appleton Electric Company, a corporation of Illinois
Application September 21, 1936, Serial No. 101,713
1 Claim. (Cl. 173—339)

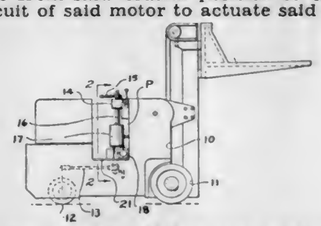


In a device of the character described, a cylindrical block of insulating material having a rear portion of reduced diameter to produce a rearwardly facing external shoulder surrounding the block, a sheet metal cup-shaped shell larger in diameter than the block having in the bottom an opening through which said rear portion of the block extends while the marginal part of the bottom of the shell rests against the shoulder, the bottom of the shell having ears projecting into the opening in the bottom of the shell, the portion of the block of reduced diameter having seats for said ears, an external flange on the front end of said shell, and rearwardly-extending ears struck up from the shell behind said flange to cooperate with the flange to secure the device to a wall through which it extends by clamping such wall between the flange and the ears.

2,167,224
POWER STEERING MECHANISM
Bronislaus Ulinski, Chicago, Ill., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application May 21, 1937, Serial No. 143,912
15 Claims. (Cl. 180—79.1)

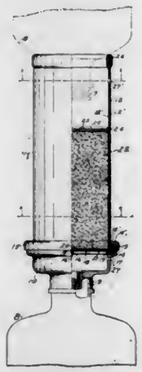
1. Power steering mechanism comprising a

steering motor, steering mechanism actuated by said motor, a controller for said motor, said controller lying normally in neutral position and movable from said neutral position to condition the circuit of said motor to actuate said steering



mechanism in a desired direction, and means of connection between said motor and controller whereby said controller is returned to neutral position when said steering mechanism assumes an extreme steering position.

2,167,225
WATER-PURIFYING APPARATUS
William F. Van Eweyk, Milwaukee, Wis., assignor of one-fourth to George W. Van Eweyk, one-fourth to Chester M. Irwin, and one-fourth to Emmett P. Murphy, all of Milwaukee, Wis.
Application November 28, 1936, Serial No. 113,187
8 Claims. (Cl. 210—103)



1. A water purifying apparatus, in combination, a lower receiving bottle having a threaded neck, an upper raw water discharging bottle, both bottles being commercial bottles of ordinary construction, a water purifier body portion interposed between the two bottles and threaded on the neck of the lower bottle, the upper bottle being inverted and resting upon and extending partly within the upper portion of the body portion, the body portion having a vent opening for the upper bottle and a vent opening for the lower bottle, and a sterilizing and purifying medium within the body portion and through which the raw water flows in passing from the upper to the lower bottle.

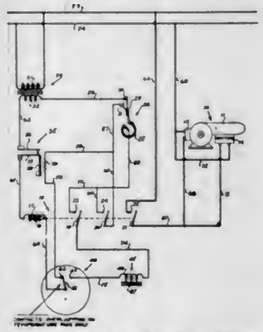
2,167,226
FABRIC DRESS GLOVE
William O. Wells, Evanston, Ill., and Carlton K. Waite, Louisiana, Mo., assignors to Wells Lamont Smith Corp., Chicago, Ill., a corporation of Minnesota
Application February 8, 1939, Serial No. 255,342
9 Claims. (Cl. 2—159)

1. A dress glove of textile fabric including a back section and a front palm and finger section, said front section having a grip area at its outer face adapted to overcome the tendency of the glove to slip on objects grasped but preserving the appearance and usefulness of the glove for dress wear, said grip area including a multiplicity of small individual rubber grip elements of substantially the same color as the glove fabric and arranged in spaced relation to each other with



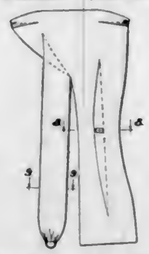
exposed surface portions of the glove fabric lying between them, said elements being embedded in the front section with their outer surfaces substantially flush with the surrounding exposed fabric surface portions, the grip elements being so small and so widely spaced from each other that their total outer surface area is less than the exposed surface area of the intervening portions of fabric.

2,167,227
RELAY CIRCUIT
John M. Wilson, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 2, 1938, Serial No. 211,402
10 Claims. (Cl. 175—320)



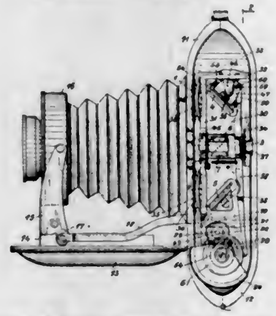
1. In combination, a device biased to one position and including an electromagnetic operator for moving it to another position, an alternating current source of power for energizing said electromagnetic operator, a constant impedance having the same power factor as said operator when said device is in said other position, and means operative subsequent to the energization of said operator to connect said impedance in series with said operator so as to reduce the drop in voltage necessary to cause said device to return to its biased position.

2,167,228
SCARF AND HEADWEAR
Leonora Wood, Los Angeles, Calif., assignor of one-tenth to Kimpton Ellis, Los Angeles, Calif.
Application December 29, 1937, Serial No. 182,223
1 Claim. (Cl. 2—198)



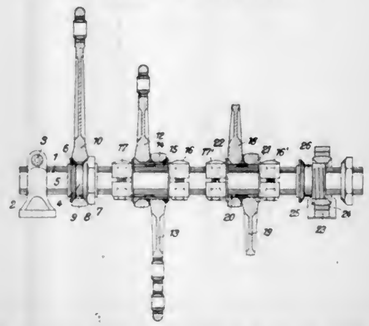
The combination, in a one-piece scarf, of an open, formless head-piece with two dependent members adapted to cover the back of the head by being crossed in the back of the neck and pulled taut, one of said dependent members having a loop or equivalent fastening at its end and being of a nature to produce a rope of cloth when twisted, said rope of cloth being adapted for twining round the head whereby it is in position for fastening, and the other of said dependent members provided with a fastening near its center adapted to engage the other half of the fastening on said other member.

2,167,229
RANGE FINDER
Eugen Armbruster, Bergisch-Gladbach, Germany, assignor to Voigtlander & Sohn Aktiengesellschaft, Brunswick, Germany, a joint-stock company of Germany
Application June 26, 1937, Serial No. 150,533
In Germany March 23, 1935
3 Claims. (Cl. 88—2.7)



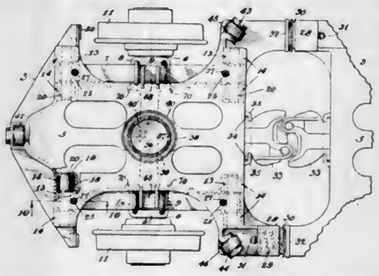
1. A range finder, comprising a base plate, a pair of mirrors spaced from each other and adapted to reflect pencils of rays emanating from an object towards each other, a pair of mirrors crossing each other and located respectively in the paths of the pencils of rays reflected by said spaced mirrors in such positions as to combine the said pencils into a pencil representing the object, means for setting one of said spaced mirrors in accordance with the distance of the object, the optical system of said range finder being inclined relatively to said base plate so far that the centers of the operative portions of said spaced mirrors are located substantially on a line parallel to said base plate, an integral frame in which both said crossing mirrors are mounted, said frame being pivotally mounted on said base plate on an axis substantially parallel to the direction of the rays reflected by said crossing mirrors, and means for fixing said frame in position on said base plate.

2,167,230
CONTROL MECHANISM
Rifat Avigdor, Berlin, Germany
Application March 25, 1937, Serial No. 132,997
In Germany May 25, 1936
2 Claims. (Cl. 74—522)



1. A control assembly comprising, in combination, a shaft having a polygonal outer surface, a bushing displaceable on said shaft having an inner polygonal surface engaging that of said shaft and further having a cylindrical outer surface, a sleeve embracing said bushing and turnable thereon, a control element encircling said sleeve, said element and sleeve having interengaging teeth formed thereon so that said parts will turn in unison about said shaft, and means cooperating with said sleeve for maintaining said teeth in interengaged relation.

2,167,231
CAR TRUCK
William Blackmore, Cleveland Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application January 22, 1935, Serial No. 2,850
5 Claims. (Cl. 105—157)



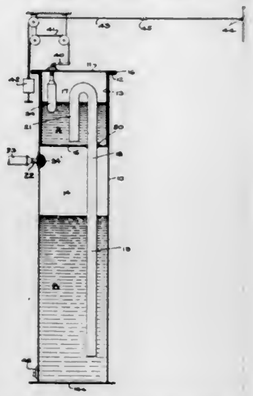
1. A railway car truck comprising a body, an axle, leaf springs mounted on said axle and supporting said truck body through end portions of said springs, said truck body having a relatively narrow center section above said axle and means projecting from opposite sides of said center section and overlying intermediate portions of said leaf springs for engagement therewith in event of failure of said end portions.

2,167,232

FIRE EXTINGUISHING FOAM APPARATUS

Fisher L. Boyd, Haverford, Pa., assignor to National Foam System, Inc., Philadelphia, Pa., a corporation of Delaware

Application June 6, 1936, Serial No. 83,887
1 Claim. (Cl. 169—27)



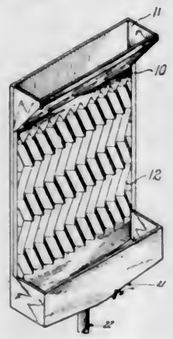
In an apparatus for generating fire extinguishing foam, in combination, a stationary vertical tank adapted to contain a foam-forming solution, a removable vessel adapted to contain a second foam-forming solution, said vessel being disposed within said tank in such manner as to maintain the two solutions normally in vertically separated relation, means affording a normally sealed communicating passage between said solutions, said means including a tube extending to a point adjacent the bottom of said tank and having a reversely bent upper end communicating with the interior of said vessel and a normally sealed charge of compressed gas disposed interiorly of said vessel and adapted when opened to release the gas to thereby force the solution in said vessel under pressure through said communicating tube to the bottom of said tank for reacting combination with the solution in the tank to form foam.

2,167,233

IRRADIATING DEVICE

Merrill J. Dorcas, Berea, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application November 26, 1935, Serial No. 51,578
11 Claims. (Cl. 250—49)



1. A liquid irradiating device comprising a screen so placed as to receive radiant energy from an external source, said screen being provided with a plurality of corrugations thereon, said corrugations being inclined to the horizontal and changing said inclination to the horizontal alternately to the right and to the left at spaced intervals throughout the height of the screen.

2,167,234

PROCESS FOR THE TREATMENT OF FABRICS AND PRODUCT THEREOF

Camille Dreyfus, New York, N. Y.

No Drawing. Application April 7, 1937, Serial No. 135,489
12 Claims. (Cl. 91—68)

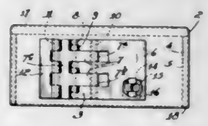
1. Process for the production of fabrics of improved resiliency and which are substantially free from the tendency to slip and ladder, which comprises treating a fabric, containing staple fibres of organic derivatives of cellulose in admixture with animal fibres, with resin-forming matter and converting said resin-forming matter to a water-insoluble synthetic resin after the application of said resin-forming matter to said fabric, the amount of resin retained on the fabric being from 1 to 10% based on the weight of the fabric.

2,167,235

PIPE-THREAD PROTECTOR

Birger Engstrom, Pittsburgh, Pa., assignor, by mesne assignments of sixty one-hundredths to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Original application February 17, 1937, Serial No. 126,183, now Patent No. 2,141,381, dated December 27, 1938. Divided and this application June 23, 1938, Serial No. 215,404
3 Claims. (Cl. 138—96)



1. A device for protecting the end of a cylindrical article comprising a split sleeve adapted to fit over the end of the article, a lever pivotally connected at one end to said sleeve adjacent one end thereof and adapted when closed to overlie the portion of the sleeve immediately adjoining its said end, a bifurcated connecting link pivotally connected at one end to said lever at a point spaced from the ends thereof, the opposite end of said link being connected to the opposite end of said sleeve, and a strap extending transversely of the arms of said connecting link adapted to overlie the space between the points where the lever and the link arms are connected to the sleeve when the lever is closed.

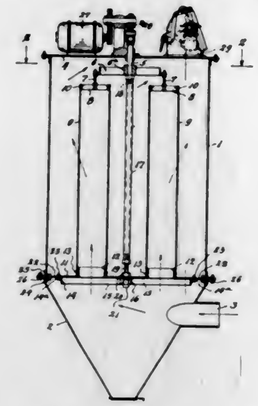
2,167,236

FILTERING APPARATUS

George A. Gieseler, Cleveland, Ohio, assignor to Draeco Corporation, Cleveland, Ohio, a corporation

Application June 17, 1938, Serial No. 214,361
9 Claims. (Cl. 183—58)

1. In filtering apparatus, a housing having an inlet and an outlet, a filter bag arranged so as to afford a filter member between the inlet and outlet, and means to vibrate the bag bodily in the housing to alternately create pressure inside and outside the bag for cleaning operation thereof, said last named means including means for



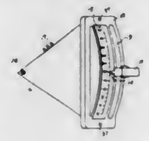
restraining said bag against shortening axially during vibration thereof.

2,167,237

VARIABLE ATTENUATOR

Edward L. Gove, Cleveland, Ohio

Application July 22, 1937, Serial No. 155,065
3 Claims. (Cl. 200—11)



1. An attenuator of the character described comprising two triangularly shaped insulating panels; spacers for mounting said panels parallel to one another; a shaft journalled transversally through said panels near the apex of the triangle; a plurality of contact studs placed in an arc on one of said insulating panels, said arc being arranged adjacent to the base of said triangularly shaped insulating panel; a selective switch member rotatable with said shaft and slidable over said arcuate contact studs; mounting means for fastening said attenuator to a rigid support; a removable front escutcheon and an operating lever with knob extending outwardly through a slot in said front escutcheon.

2,167,238

PROCESS FOR THE MANUFACTURE OF VERY PURE ALUMINUM COMPOUNDS

Nathanas Griunsteinas, also known as Nathan Grunstein, Haifa, Palestine

No Drawing. Application March 11, 1937, Serial No. 130,303. In Great Britain March 16, 1936
14 Claims. (Cl. 23—123)

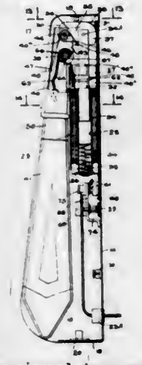
1. A process for manufacturing pure basic aluminum sulfate, comprising dissolving metallic iron in a crude aluminum sulfate solution of a concentration of at least about 45 per cent by weight of $Al_2(SO_4)_3.18H_2O$ under heating, purifying the solution from metallic iron by separating the iron from the solution while the same is hot, and recovering pure basic aluminum sulfate by adding water to the reaction product.

2,167,239

VEHICLE SIGNAL ARM

Herbert J. Graham and Harry Yale Mageoch, Philadelphia, Pa., assignors to Electric Service Supplies Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 24, 1934, Serial No. 745,229
4 Claims. (Cl. 177—329)



4. In a vehicular signal, in combination, a main casing, a signaling unit adapted to be housed within said casing and comprising a semaphore arm and an electromagnetic assembly having an armature for actuating said arm, means for pivotally securing said arm to said casing in operative relation to said armature, a bracket securable to the main casing and adapted to coact with means provided in said electromagnetic assembly for detachably securing said signal unit immovably within said main casing, and coacting means in said bracket member and said main casing for securing the former to the latter, said signaling unit being permanently and completely wired electrically independently of said bracket, which latter is electrically connected through suitable conductors to a source of electrical supply, said bracket being provided with means to complete the circuit from said source of supply to and through said signaling unit automatically as said bracket is secured in clamping position.

2,167,240

MAGNET MATERIAL

Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application September 30, 1937, Serial No. 166,578
3 Claims. (Cl. 75—22)

1. The process of producing a fine grained, strong permanent magnet, containing a considerable percentage of an alloy consisting basically of nickel, titanium, cobalt and iron comprising the steps of mixing the powders of said materials with a decomposing hydride, pressing same into suitable forms, and sintering them at a temperature where the hydride present will decompose and release nascent hydrogen, said sintering being carried out in a non-oxidizing atmosphere, and then heat treating the sintered product to produce a high coercive force and high remanence.

2,167,241

DISPENSING DEVICE FOR HAIRPINS AND THE LIKE

Sam Katz, Brooklyn, N. Y.

Application January 25, 1938, Serial No. 186,756
6 Claims. (Cl. 312—67)

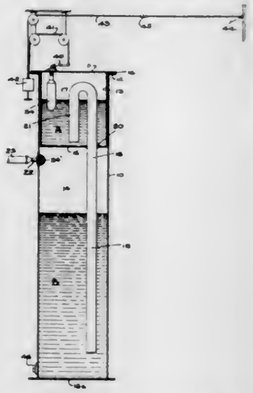
1. A dispensing device for hairpins, comprising

2,167,232

FIRE EXTINGUISHING FOAM APPARATUS

Fisher L. Boyd, Haverford, Pa., assignor to National Foam System, Inc., Philadelphia, Pa., a corporation of Delaware

Application June 6, 1936, Serial No. 83,887
1 Claim. (Cl. 169—27)



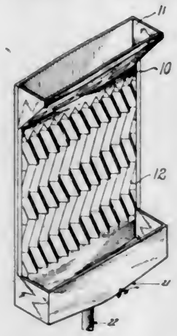
In an apparatus for generating fire extinguishing foam, in combination, a stationary vertical tank adapted to contain a foam-forming solution, a removable vessel adapted to contain a second foam-forming solution, said vessel being disposed within said tank in such manner as to maintain the two solutions normally in vertically separated relation, means affording a normally sealed communicating passage between said solutions, said means including a tube extending to a point adjacent the bottom of said tank and having a reversely bent upper end communicating with the interior of said vessel and a normally sealed charge of compressed gas disposed interiorly of said vessel and adapted when opened to release the gas to thereby force the solution in said vessel under pressure through said communicating tube to the bottom of said tank for reacting combination with the solution in the tank to form foam.

2,167,233

IRRADIATING DEVICE

Merrill J. Dorcas, Berea, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application November 26, 1935, Serial No. 51,578
11 Claims. (Cl. 250—49)



1. A liquid irradiating device comprising a screen so placed as to receive radiant energy from an external source, said screen being provided with a plurality of corrugations thereon, said corrugations being inclined to the horizontal and changing said inclination to the horizontal alternately to the right and to the left at spaced intervals throughout the height of the screen.

2,167,234

PROCESS FOR THE TREATMENT OF FABRICS AND PRODUCT THEREOF

Camille Dreyfus, New York, N. Y.

No Drawing. Application April 7, 1937, Serial No. 135,489
12 Claims. (Cl. 91—68)

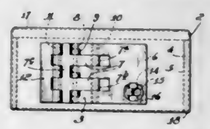
1. Process for the production of fabrics of improved resiliency and which are substantially free from the tendency to slip and ladder, which comprises treating a fabric, containing staple fibres of organic derivatives of cellulose in admixture with animal fibres, with resin-forming matter and converting said resin-forming matter to a water-insoluble synthetic resin after the application of said resin-forming matter to said fabric, the amount of resin retained on the fabric being from 1 to 10% based on the weight of the fabric.

2,167,235

PIPE-THREAD PROTECTOR

Birger Engstrom, Pittsburgh, Pa., assignor, by mesne assignments of sixty one-hundredths to The National Supply Company, Pittsburgh, Pa., a corporation of Pennsylvania

Original application February 17, 1937, Serial No. 126,183, now Patent No. 2,141,381, dated December 27, 1938. Divided and this application June 23, 1938, Serial No. 215,404
3 Claims. (Cl. 138—96)



1. A device for protecting the end of a cylindrical article comprising a split sleeve adapted to fit over the end of the article, a lever pivotally connected at one end to said sleeve adjacent one end thereof and adapted when closed to overlie the portion of the sleeve immediately adjoining its said end, a bifurcated connecting link pivotally connected at one end to said lever at a point spaced from the ends thereof, the opposite end of said link being connected to the opposite end of said sleeve, and a strap extending transversely of the arms of said connecting link adapted to overlie the space between the points where the lever and the link arms are connected to the sleeve when the lever is closed.

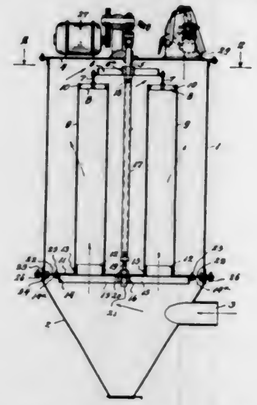
2,167,236

FILTERING APPARATUS

George A. Giesecler, Cleveland, Ohio, assignor to Dracco Corporation, Cleveland, Ohio, a corporation

Application June 17, 1938, Serial No. 214,361
9 Claims. (Cl. 183—58)

1. In filtering apparatus, a housing having an inlet and an outlet, a filter bag arranged so as to afford a filter member between the inlet and outlet, and means to vibrate the bag bodily in the housing to alternately create pressure inside and outside the bag for cleaning operation thereof, said last named means including means for



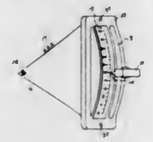
restraining said bag against shortening axially during vibration thereof.

2,167,237

VARIABLE ATTENUATOR

Edward L. Gove, Cleveland, Ohio

Application July 22, 1937, Serial No. 155,065
3 Claims. (Cl. 200—11)



1. An attenuator of the character described comprising two triangularly shaped insulating panels; spacers for mounting said panels parallel to one another; a shaft journalled transversally through said panels near the apex of the triangle; a plurality of contact studs placed in an arc on one of said insulating panels, said arc being arranged adjacent to the base of said triangularly shaped insulating panel; a selective switch member rotatable with said shaft and slidable over said arcuate contact studs; mounting means for fastening said attenuator to a rigid support; a removable front escutcheon and an operating lever with knob extending outwardly through a slot in said front escutcheon.

2,167,238

PROCESS FOR THE MANUFACTURE OF VERY PURE ALUMINUM COMPOUNDS

Nathanas Griunsteinas, also known as Nathan Grunstein, Haifa, Palestine

No Drawing. Application March 11, 1937, Serial No. 130,303. In Great Britain March 16, 1936
14 Claims. (Cl. 23—123)

1. A process for manufacturing pure basic aluminum sulfate, comprising dissolving metallic iron in a crude aluminum sulfate solution of a concentration of at least about 45 per cent by weight of $Al_2(SO_4)_3.13H_2O$ under heating, purifying the solution from metallic iron by separating the iron from the solution while the same is hot, and recovering pure basic aluminum sulfate by adding water to the reaction product.

2,167,239

VEHICLE SIGNAL ARM

Herbert J. Graham and Harry Yale Mageoch, Philadelphia, Pa., assignors to Electric Service Supplies Company, Philadelphia, Pa., a corporation of Pennsylvania

Application September 24, 1934, Serial No. 745,229
4 Claims. (Cl. 177—329)



4. In a vehicular signal, in combination, a main casing, a signaling unit adapted to be housed within said casing and comprising a semaphore arm and an electromagnetic assembly having an armature for actuating said arm, means for pivotally securing said arm to said casing in operative relation to said armature, a bracket securable to the main casing and adapted to coact with means provided in said electromagnetic assembly for detachably securing said signal unit immovably within said main casing, and coacting means in said bracket member and said main casing for securing the former to the latter, said signaling unit being permanently and completely wired electrically independently of said bracket, which latter is electrically connected through suitable conductors to a source of electrical supply, said bracket being provided with means to complete the circuit from said source of supply to and through said signaling unit automatically as said bracket is secured in clamping position.

2,167,240

MAGNET MATERIAL

Franz R. Hensel, Indianapolis, Ind., assignor to P. R. Mallory & Co., Inc., Indianapolis, Ind., a corporation of Delaware

No Drawing. Application September 30, 1937, Serial No. 166,578
3 Claims. (Cl. 75—22)

1. The process of producing a fine grained, strong permanent magnet, containing a considerable percentage of an alloy consisting basically of nickel, titanium, cobalt and iron comprising the steps of mixing the powders of said materials with a decomposing hydride, pressing same into suitable forms, and sintering them at a temperature where the hydride present will decompose and release nascent hydrogen, said sintering being carried out in a non-oxidizing atmosphere, and then heat treating the sintered product to produce a high coercive force and high remanence.

2,167,241

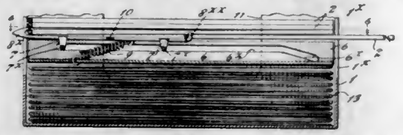
DISPENSING DEVICE FOR HAIRPINS AND THE LIKE

Sam Katz, Brooklyn, N. Y.

Application January 25, 1938, Serial No. 186,756
6 Claims. (Cl. 312—67)

1. A dispensing device for hairpins, comprising

a casing having supporting walls for a stack of hairpins contained therein, one of said walls being provided with a dispensing opening, a carrier within the casing, a slide ejector movable within the casing and operatively connected to the carrier, said ejector being formed with a hooked end to engage a hairpin at the end of the stack distant from said opening, means on said ejector projecting exteriorly of the casing whereby the



ejector may be manually moved to propel a hairpin through said dispensing opening, and a lip carried by the ejector and spaced from the hooked end of the latter, said lip adapted to be engaged by the hairpin so projected upon a return movement of the ejector, whereby the hairpin is adapted to actuate the ejector when the hairpin is grasped by an operator and moved outwardly of the casing.

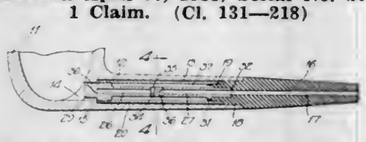
2,167,242

SMOKING PIPE

Salvatore La Franca, New York, N. Y.

Application April 30, 1938, Serial No. 205,154

1 Claim. (Cl. 131—218)



In a pipe embodying a bowl, a stem, and mouthpiece having aligned passages and a reduced threaded inner portion on the mouthpiece wherein a tube has one end in threaded engagement with the reduced portion of the mouthpiece, and a second tube, provided with a transverse opening, has a threaded engagement with the other end of the first tube, a plug for said opening having a pair of slots, one slot being adapted to communicate with one portion of the interior of the first tube and the interior of the second tube, the other slot being adapted for communication with another portion of the interior of the first tube and the interior of the second tube, and the said plug being removable to permit a standard pipe cleaner to be passed through the mouthpiece and the second tube with one longitudinal movement thereof.

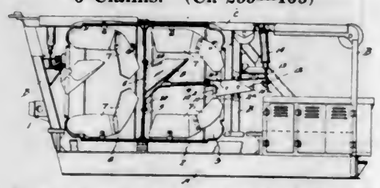
2,167,243

DUAL DRUM MIXER

Erich H. Lichtenberg and Oscar Sheck, Milwaukee, Wis., assignors to Koehring Company, Milwaukee, Wis., a corporation

Application November 16, 1937, Serial No. 174,902

6 Claims. (Cl. 259—165)



1. In a mixing machine of the class described, in combination, a mixing drum having a charging opening at the axis thereof and an outflow opening or passage opposite to the charging opening, a chute for charging materials into the drum, extending from a point exterior to the drum, through said charging opening, and occupying in cross section substantially the whole area in said charging opening, a transfer chute in the drum having a concave upper surface and associated with the outflow opening or passage, said chute being adapted in an operative position with said concave surface uppermost to cause materials in the drum chamber to pass through said outflow opening, and a rotatable actuating part for said transfer chute extending through the charging opening of the drum for revolving said chute to inverted position in which the under surface of the chute serves as a mixing member, and means to support the said transfer chute wholly upon said rotatable part.

2,167,244

IMPLEMENT FOR TOPPING OF BEETS

Martti Johannes Liuhto, Kytaja, Finland

Application February 10, 1937, Serial No. 125,046

In Finland February 14, 1936

1 Claim. (Cl. 56—327)



A beet-topping implement comprising in combination, two plates having diverging front edges and constituting a forked front having a flared front portion for guiding the tops, a V-shaped cutter mounted upon said plates and situated behind the flared front portion to cut the tops guided by the flared front portion, runners connected with said plates to guide the implement on the ground and maintain said cutter at the proper cutting level, a handle situated behind said cutter, a plurality of wires situated at different levels to form a reticulated scoop structure and having front portions and rear portions, means connecting the front portions of said wires with said plates, and means connecting the rear portions of said wires with said handle.

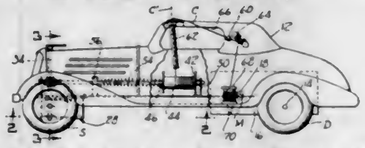
2,167,245

WHEELED TOY STEERED BY REMOTE CONTROL

Raymond Lohr and Richard Nelson Carver, Erie, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application January 3, 1938, Serial No. 183,070

18 Claims. (Cl. 46—210)



1. A wheeled toy comprising steering means,

means normally lightly biasing the steering means in one direction, a non-resilient, highly flexible fibrous string extending from the toy, said string being operatively connected to said steering means in such manner that pull tension applied to the string turns the steering means in the opposite direction.

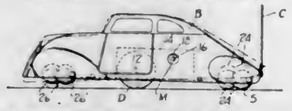
2,167,246

STRING-CONTROLLED WHEELED TOY

Raymond Lohr, Erie, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application January 3, 1938, Serial No. 183,071

10 Claims. (Cl. 46—210)



1. A self-propelled wheeled toy comprising a driving wheel, a motor for driving continuously said wheel in one direction, a toy body, said body being permanently unbalanced toward one end so that the heavier end normally moves toward the floor, means supporting the heavier end, a control string attached to the heavier end and extending upwardly far enough to be held in the hand of a person walking along with the toy, whereby said toy is readily steerable by raising the string and thereby elevating the support means from the floor.

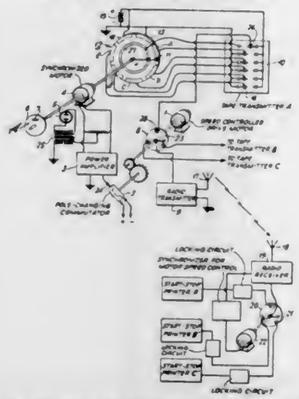
2,167,247

START-STOP PRINTER ADAPTATION TO SYNCHRONOUS MULTIPLEX TELEGRAPHY

Richard E. Mathes, Westfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 3, 1937, Serial No. 162,280

8 Claims. (Cl. 178—52)



1. In a multiplex printing telegraph system a speed-governed motor, a multiplex channel-time allotment commutator operable by said motor, a plurality of printing telegraph transmitting distributors each having time-division positions for each element of a start-stop code signal, additional motors each for individually driving one of said distributors, synchronizing means operable from the first said motor for controlling the speed of said additional motors, means for fixing the speed ratio between said commutator and said distributors, also the mutual phase relationships between the several distributors, thereby to obtain successive channel-time allotments for each element of the respective code signals to be transmitted, independent means appropriate to each multiplex channel for feeding code signals to one of said distributors, a plurality of start-stop printers respectively operable by signals on each multiplex channel, and means synchronized by said signals for maintaining the proper distribution of said signals to said printers.

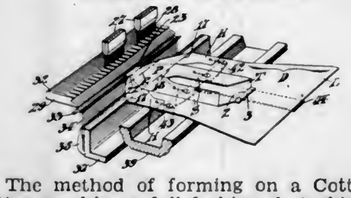
2,167,248

FORMATION OF COURSEWISE INTEGRALLY KNITTED HEEL AND INSTEP STOCKING STRUCTURES

Wesley R. McCurdy, St. Catharines, Ontario, and John W. Boyle, Merritton, Ontario, Canada

Application February 19, 1938, Serial No. 191,412

3 Claims. (Cl. 66—89)



1. The method of forming on a Cotton type knitting machine a full fashioned stocking blank including an integrally knitted tubular portion, which comprises knitting a portion of a blank and forming a plurality of parallel course portions at each side of a walewise center line of the blank, the course portions at each side being separable out of the plane of the blank and extending inwardly from the corresponding blank edge to a position short of the opposite edge of the blank, cutting the edges of the blank along a given course for a portion of its length at each side, folding the blank along the line of said cut, folding the foot portion of the blank along two walewise lines passing through the ends of said cuts, placing the loops of course portions along the edges of said cuts on the needles with an outer end loop of one of said course portions on the foot side of a cut disposed adjacent the other outer end loop of the same course, and continuing knitting from said course portions to complete said tubular portion and to form a flat knitted narrowed portion, some of which is without a seam, adapted to act as the heel portion of a full fashioned stocking.

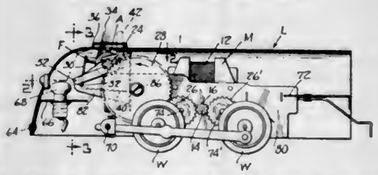
2,167,249

SPARKING TOY

Edward E. McKeige, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application October 1, 1937, Serial No. 166,711

14 Claims. (Cl. 46—10)



5. A vehicle toy comprising a truck, a motor therein, wheels thereon, gearing between said motor and wheels, an abrasive wheel, gearing between said motor and abrasive wheel, a flint

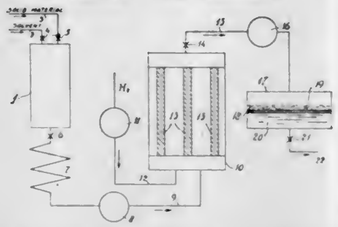
and flint holder pivotally mounted on said truck in a bearing slot, a lever functioning to close the aforesaid bearing slot whereby said flint is normally held against escape from said slot but may be removed therefrom by first swinging said lever to clear the slot.

2,167,250

PROCESS OF MAKING A SOLID BITUMINOUS HYDROCARBON PRODUCT

Theodor Wilhelm Pfirrmann, Castrop-Rauxel, Germany, assignor to Friedrich Uhde, Dortmund, Germany

Application October 25, 1935, Serial No. 46,808
In Germany October 31, 1934
5 Claims. (Cl. 196—53)



1. The process of producing normally solid extracts from solid carbonaceous fuel material which comprises admixing said fuel material with a solvent for the bituminous material to be produced in the process, which solvent is one belonging to one of the aromatic and naphthenic series, is stable under the conditions of the subsequent treatment with hydrogen and is substantially free from paraffinic and olefinic hydrocarbons, subjecting the admixed fuel material and solvent in an extraction vessel under high superatmospheric pressure of at least 100 atmospheres to a temperature ranging from about 350 to about 450° C. while in the presence of added hydrogen-containing gases, and limiting the volume of hydrogen-containing gases consumed during extraction to an amount which will not produce substantial hydrogenation and liquefaction of the normally solid extracts.

2,167,251

SURGICAL TAPE OF SUBMUCOSA TISSUE

Allen Rogers, Brooklyn, N. Y., assignor to Davis & Geck, Inc., Brooklyn, N. Y., a corporation of New York

No Drawing. Continuation of application Serial No. 726,328, May 18, 1934. This application August 20, 1938, Serial No. 225,943
4 Claims. (Cl. 128—335.5)

1. As a complete article of manufacture, a surgical tape comprising a ribbon of submucous animal intestinal tissue.

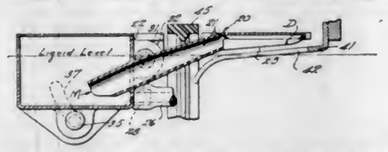
2,167,252

MOISTENING DEVICE

Francis J. Rouan and Frank C. Sova, Stamford, Conn., assignors to Pitney-Bowes Postage Meter Co., Stamford, Conn., a corporation of Delaware

Application April 10, 1937, Serial No. 136,062
10 Claims. (Cl. 91—43)

4. In a moistening device, a moistening blade having a liquid chamber therein and a discharge opening of capillary size along the lower surface thereof, a liquid supply having its level maintained below the surface of the discharge opening, means for directing the liquid upward from the liquid supply to the liquid chamber, and means for priming the entire liquid passage including the directing means, chamber and discharge opening,



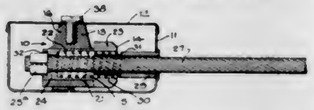
said prime being adapted to be maintained in said liquid passage indefinitely through resistance afforded by the discharge opening.

2,167,253

PULL SWITCH

Andrew J. Shaback, Philadelphia, Pa., assignor to Electric Service Supplies Company, Philadelphia, Pa., a corporation of Pennsylvania

Application May 5, 1936, Serial No. 77,953
3 Claims. (Cl. 200—161)



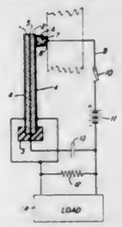
1. In a switch of the character described, in combination, a casing, an insulating body fixed in said casing, a tubular electrical contact member slidably associated with said insulating body, a relatively fixed electrically conductive tubular guide member extending partially into the bore of said slidable contact member to guide the latter in its movement, a contact finger normally insulated from said contact member, and a cable extended through the axially aligned bores of said guide member and contact member and secured to the latter for axially drawing the same into electrical contact with said contact finger.

2,167,254

PIEZOELECTRIC VIBRATOR OSCILLATOR

Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 23, 1938, Serial No. 203,743
8 Claims. (Cl. 250—36)



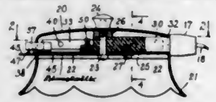
1. An oscillator comprising a piezoelectric vibrator consisting of a Rochelle salt bilame device having electrodes and arranged to warp in response to an electromotive force applied to the electrodes, a local source of current, a microphone in circuit with the source for controlling the current in the circuit, means for transferring warping vibrations of the piezoelectric vibrator to the microphone to vary its resistance, and means for deriving a vibrating sustaining electromotive force from the microphone circuit and for applying it to the electrodes of the piezoelectric vibrator to maintain its warping vibrations.

2,167,255

AUTOMATIC CONTROLLER FOR COFFEE MAKERS

Maurice Lee Warner, Leeds, Ala., assignor to The Silex Company, a corporation of Connecticut

Application May 25, 1937, Serial No. 144,584
2 Claims. (Cl. 200—138)



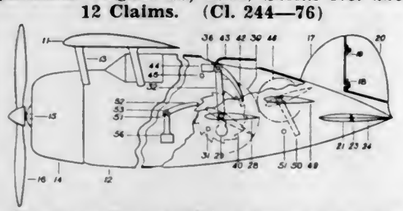
1. A cover and circuit-breaker unit for the infusion chamber of a vacuum type coffee-maker, comprising a partition extending across said cover, an insulating base on the upper side of said partition, resilient contact members mounted on opposite sides of said base and normally in open position, a thumb piece engageable outside the cover for moving one of said contact members sidewise into closed position, a thermostatic element comprising a bi-metal strip on the lower side of said partition with a free end extending beneath the thumb piece, and a projection on the said strip adapted to hold the thumb piece in closed position at normal temperatures and to release it when heated.

2,167,256

AUTOMATIC NOSE-DIVE RECTIFYING DEVICE FOR AIRPLANES

Max M. Weiss and Israel Benjamins, Brooklyn, N. Y.

Application August 23, 1938, Serial No. 226,240
12 Claims. (Cl. 244—76)



1. In a nose dive rectifying device for airplanes, an aerofoil adapted to act as an elevator, pivotally mounted near the tail end of the airplane body, an air reacting member, subject to the airflow in a relatively inclined direction to the said body, movably mounted on said body, means for operatively interconnecting said member and said aerofoil, so constructed and arranged that a relatively downwardly inclined airflow on the said member caused by a nose down rotation of the airplane will incline said aerofoil upwardly and rearwardly, and gravity controlled means for holding the said aerofoil in said position after the said nose down rotation of the airplane has been checked, until the airplane is returned to a substantially level keel, said holding means being adapted automatically to release the aerofoil when the said aeroplane has been returned to the said position at or near its level keel.

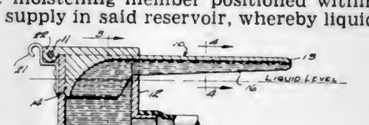
2,167,257

MOISTENING DEVICE

Walter H. Wheeler, Jr., Stamford, Conn., assignor to Pitney-Bowes Postage Meter Co., Stamford, Conn., a corporation of Delaware

Application April 10, 1937, Serial No. 136,054
5 Claims. (Cl. 91—43)

4. In a moistening device, a liquid reservoir having a liquid supply therein, a moistening member including a blade having a moistening surface extending sidewardly from said reservoir, said moistening member and blade having a slot of capillary size extending inward from the lower surface thereof with the lowermost portion of the moistening member positioned within the liquid supply in said reservoir, whereby liquid will



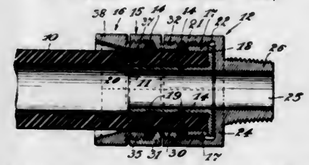
be drawn upward through said restricted slot and directed sidewardly by capillary attraction to provide a continuous film at the moistening surface of the sidewardly extended portion of the blade.

2,167,258

COUPLING

Wylie G. Wilson, Elizabeth, N. J., assignor to Everlasting Valve Company, Jersey City, N. J., a corporation of New Jersey

Application December 9, 1936, Serial No. 114,884
5 Claims. (Cl. 285—86)



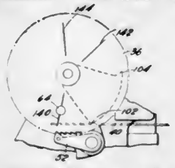
4. Means for joining a coupling to a hose, comprising a hollow nipple inserted in one end of the hose, means to frictionally resist separation of said hose and nipple, a sleeve carried by said coupling and enveloping the end of the hose, rings of relatively soft compressible packing material at spaced intervals along said hose, and compression means cooperating with said sleeve and one with another for selectively forcing said packing rings into pressure contact with the exterior of said hose.

2,167,259

COUNTER

George Wintritz, Staten Island, N. Y., and Frederick Ulrich, Bayonne, N. J., assignors to Conmar Products Corporation, Bayonne, N. J., a corporation of New Jersey

Application June 17, 1938, Serial No. 214,254
20 Claims. (Cl. 200—33)



2. A counter comprising a rotatable shaft arranged to detachably receive any of a number of differently toothed ratchet wheels, an oscillatable pawl arm and pawl for moving the ratchet wheel, a contact carried by said shaft, a wiper spring positioned to be engaged by said contact during rotation of the shaft, and means affording longitudinal adjustment of the wiper spring.

2,167,260

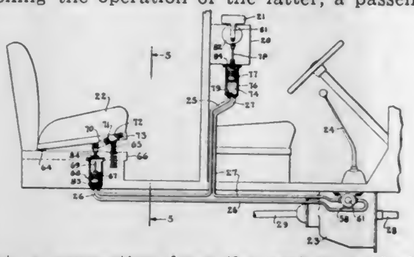
FARE PROTECTIVE SHIFT GEAR LOCK FOR TAXICABS

Joseph Laddaga, New York, N. Y., assignor of one-third to William L. Morris, New York, N. Y.

Application November 20, 1937, Serial No. 175,587
22 Claims. (Cl. 180—82)

1. A shift gear control for taxi-cabs, compris-

ing a shift gear selective transmission for low, second, and higher forward speeds, and for reverse, means for disabling the gear shift to second and higher forward speeds, a fare meter, a flagged device for at will rendering the meter either operative or inoperative, a connection from the flagged device to the shift gearing for controlling the operation of the latter, a passenger



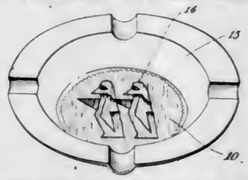
seat, a connection from the seat to said shift gearing, also for controlling the operation of the latter, and means whereby, when the meter is inoperative and a passenger is seated, said shift-gear connections render impossible a shift to second or higher forward speeds, but leaves said shift gear free for shift to low forward speed and reverse.

2,167,261

CRUNCH PAD FOR THE PROTECTION AND CLEANSING OF ASHTRAYS

Helena S. Sadtler, Erdenheim, Pa.

Application November 18, 1936, Serial No. 111,360
4 Claims. (Cl. 131—256)



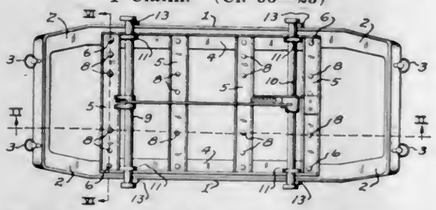
1. A removable and discardable shield for the upper surface of an ashtray, consisting of a disc having an embossed upper surface whereby the ashes of a cigarette or cigar can be readily removed therefrom by moving its ash end in contacting relation over said embossed surface.

2,167,262

COMBINATION DRAG AND HARROW

John Sayen, Detroit, Mich.

Application November 17, 1938, Serial No. 240,913
1 Claim. (Cl. 55—23)



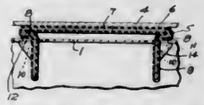
In an implement of the character described, a drag unit having parallel side rails and end bars connecting the side rails, a harrow unit having parallel side rails and cross members secured to said rails, draw cut teeth carried by the cross members, upright members rigidly secured to the first mentioned side rails, upstanding members secured to the last mentioned side rails, a forward transversely extending shaft and a rear transversely extending shaft, said shafts being journaled within the second mentioned upstanding members, links keyed to the ends of the respective shafts and pivoted to said upright members, an upwardly extending lever arm keyed to said rear shaft, an operating lever keyed to said forward shaft, a segmental member secured to certain of said cross members in straddling relation to the front shaft and having an inner serrated portion, a pawl carried by said operating lever for engaging said serrated portion, a vertically disposed rod connecting with said pawl, and a gripping lever secured to said pawl and to the operating lever.

2,167,263

BUMPER CLIP AND INSTALLATION THEREOF

Jesse Allen Bumpus, Pleasant Ridge, and Clifford S. Christiansen, Detroit, Mich., assignors to Collord, Inc., Detroit, Mich., a corporation of Michigan

Application November 2, 1938, Serial No. 238,450
7 Claims. (Cl. 16—86)



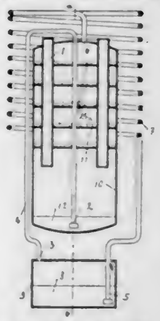
1. A bumper clip of the class described comprising a metal plate portion having integral folded-under portions and leg portions integral with the inner ends of said folded-under portions extending away from said plate portion, said leg portions having means adapted to be disposed opposite a surface of a supporting part whereby said clip member is secured to said part, and said plate portion having a covering of non-metallic material.

2,167,264

REFRIGERATING APPARATUS

Carl Eugen Dunz, Wallisellen, Switzerland

Application April 6, 1937, Serial No. 135,292
In Germany April 14, 1936
1 Claim. (Cl. 62—118)



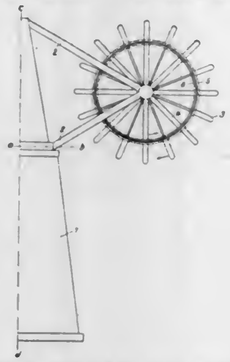
In an absorption apparatus the combination of a boiler and an evaporator, fitted with refrigerant fluid partly in the liquid and partly in the vapor state, a solid absorbent material located on perforated plates in the top of the boiler and liquid, indifferent to the refrigerant fluid used and not affected by the changing temperatures, located in the bottom of the boiler, closing the end of a pipe leading directly to the top of the evaporator, another pipe leading from the top of the boiler to a condenser which is connected to the bottom of the evaporator.

2,167,265

POWER GENERATOR

Hermann Honnef, Berlin, and Heinrich Geffcken, Berlin-Charlottenburg, Germany

Application November 10, 1937, Serial No. 173,818
In Germany November 11, 1936
12 Claims. (Cl. 290—44)



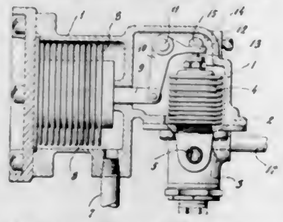
1. In a wind generator, two wind wheels rotating in opposite directions, a field pole ring mounted on one wheel, an armature pole ring mounted on the other wheel, each pole ring supporting a system of poles rotating in close proximity to the poles of the other system, and means for closing a signalling circuit responsive to a decrease in the length of the air gap between the two pole systems.

2,167,266

VALVE FOR AUTOMATIC CONTROL OF SUPPLEMENTARY LIQUIDS

Leo B. Kimball, New Haven, Conn., assignor to Fuel Development Corporation, a corporation of Delaware

Application April 8, 1938, Serial No. 200,860
1 Claim. (Cl. 137—153)



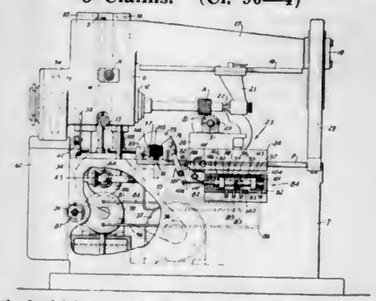
A valve for controlling and metering the flow of varying amounts of a supplementary liquid introduced under fluid pressure to the intake passages of an internal combustion engine comprising an automatic bellows-like pressure responsive device, a movable metering member in said valve that is connected with and actuated by said device, an opening communicating with the space surrounding said pressure responsive device and adapted to receive a conduit running to the pressure portion of the intake passage of said engine, a second pressure responsive bellows-like device, connected with said metering member and having the external space about the same communicating with the aforesaid space, a mechanical connection between the movable parts of said bellows-like members and said metering member, and a manually operated adjusting device bearing upon said connection for controlling the opening of said valve and adjusting the position of said metering member when additional amounts of supplementary liquid that are not supplied through the action of said pressure means are necessary.

2,167,267

HOBBING MACHINE

Benjamin R. Purvin, Rockford, Ill., assignor to Barber-Colman Company, Rockford, Ill., a corporation of Illinois

Application April 23, 1936, Serial No. 75,949
8 Claims. (Cl. 90—4)



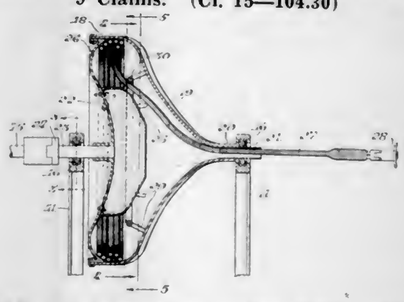
8. A hobbing machine comprising, in combination, a work spindle, a tool spindle, means for rotating said spindles in positive timed relation, a mechanical drive without change gears for feeding said spindles relatively to each other, mechanical means available at will for adjusting the rotative phase relation between said spindles, a reversible hydraulic motor for operating said drive and said mechanical means in positive timed relation, a variable delivery pump, and control means for operatively connecting said pump reversibly to said motor.

2,167,268

ROTARY SEWER CLEANING MACHINE

George J. Sanger, Park Ridge, Ill.

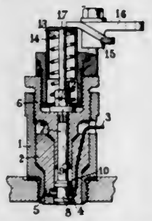
Application October 24, 1936, Serial No. 107,456
9 Claims. (Cl. 15—104.30)



1. In a power driven rotary sewer cleaning machine including a support carrying a substantially conically shaped drum turnable about an axis normal to its base on the support and having an end wall at its base and a throat portion at its apex, and motor means on the support to rotate the drum, said base carrying a substantially conically shaped inner member concentrically within the drum to provide a sub-

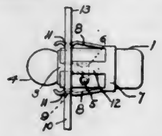
stantially annular space between it and the periphery of the drum for storing a coiled flexible shaft in said space with an end thereof passed through said throat, rotation of the drum causing rotation of the shaft, the combination with said drum of concentric means located within and inwardly spaced from the walls of said drum in addition to the inner member and at the entrance to said storage space between the drum and inner member providing an annular control space only slightly wider than the thickness of the shaft positively to control the shaft when under torque and thereby prevent kinking of the shaft as it is passed into or out of the storage space while being driven.

2,167,269
IGNITION DEVICE FOR ENGINES
Boris Svistounoff, Issy-les-Moulineaux, France
Application February 16, 1938, Serial No. 190,773
In Luxemburg February 16, 1937
3 Claims. (Cl. 123—145)



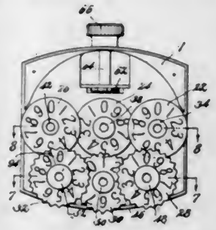
1. An ignition device for explosion or other engines, comprising a bottom, an incandescence element inside the said bottom, an obturator shielding when at rest, said incandescent element; a spring acting upon said obturator and yielding the instant that the compression of the explosive mixture reaches the required value and after the explosion, bringing the said obturator back to its first position; and means for adjusting the degree of compression of the spring, so that the ignition may be advanced.

2,167,270
LAMP SOCKET DEVICE
Clement A. Woodward, Roslindale, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application September 22, 1937, Serial No. 165,113
5 Claims. (Cl. 173—339)



1. An electric socket device including a shell part having integral lamp-receiving and holding means adjacent to one end, a second part having a collar-like portion engaging the outer surface of said shell part and permanently attaching the second part to the shell part, yieldable support-engaging fingers extending from said collar portion toward that end of the shell part having the lamp-holding means, said fingers being provided with support contacting means for snap fastening engagement with a support when passed into an aperture in the support, and support-engaging shoulders carried by the second part and located between the free ends of said yieldable fingers and said collar portion to contact said support at that side from which the fingers are entered into the aperture in the support.

2,167,271
GOLF-SCORING DEVICE
Augustus Murray Bowzer, Lynn, Mass.
Application August 3, 1936, Serial No. 93,961
11 Claims. (Cl. 235—113)



1. A device of the character described comprising a casing provided with front and rear cover plates and a frame plate housed in the casing between the cover plates, the front cover plate being provided with two openings, two shafts rotatably mounted in the frame plate adjacent to the respective openings, an indicator disc mounted on each shaft on the front side of the frame plate between the frame plate and the front cover plate, each indicator disc being provided with markings that are respectively rendered successively visible through the respective openings as the respective indicator discs are rotated on their respective shafts, one of the indicator discs being rigidly mounted upon its shaft, the other indicator disc being loosely mounted upon its shaft and its periphery projecting beyond the casing in order that it may at any time be manually adjusted with respect to its shaft, means in the casing on the rear side of the frame plate between the frame plate and the rear cover plate for rotating the shaft provided with the rigidly mounted indicator disc, means exterior of the casing and manually operable to render the rotating means effective to rotate the shaft provided with the rigidly mounted indicator disc, and means in the casing continuously connecting the shafts together to cause the shaft provided with the loosely mounted indicator disc to be rotated continuously from the shaft provided with the rigidly mounted indicator disc.

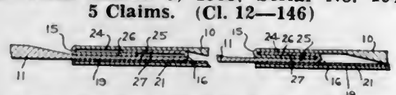
2,167,272
PROCESS OF PRODUCING CRYSTALLINE ERGOSTEROL
Walter A. Carlson, Minneapolis, Minn., assignor to General Mills, Inc., a corporation of Delaware
No Drawing. Application July 9, 1938, Serial No. 218,478
8 Claims. (Cl. 260—397)

1. A process of producing large crystals of ergosterol which comprises dissolving .2% to 3%, by volume, of water in an organic solvent, selected from a group consisting of ethyl acetate, ethyl acetate containing ethyl alcohol, and a mixture of benzene and ethyl alcohol, adding about 5%, by weight, of ergosterol to the previously formed solution, and then heating the solution to its boiling point, then slowly cooling the solution to room temperature, and then filtering the solution to separate the crystals of ergosterol from the mother liquor.

2,167,273
STABILIZED MINERAL OIL
Elmer William Cook, New York, N. Y., assignor to Tide Water Associated Oil Company, Bayonne, N. J., a corporation of Delaware
No Drawing. Application December 4, 1936, Serial No. 114,136
7 Claims. (Cl. 87—9)

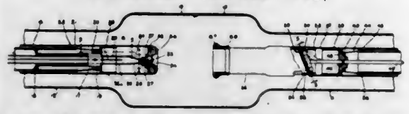
1. Mineral oil composition comprising a viscous hydrocarbon oil normally tending to deteriorate in service and having incorporated therewith deterioration inhibiting proportions of an anti-symmetrical di-aryl amine wherein both aryl groups are polycyclic or substituted polycyclic aromatic rings.

2,167,274
FOOTWEAR AND METHOD OF MAKING SAME
Peter J. Costigan, Waterbury, Conn., assignor to Pliantor Inc., Waterbury, Conn., a corporation of Connecticut
Application March 9, 1938, Serial No. 194,879
5 Claims. (Cl. 12—146)



4. The method of making a shoe which comprises the steps of bending the edges of the quarter and vamp backwardly upon themselves, overlapping and interlocking said backwardly bent edges, temporarily stitching said interlocked edges together in overlapping relation, stretching said quarter and vamp on a last, then cutting the stitches between the quarter and the vamp at the adjacent edges, and finally securing said quarter and vamp to the sole of the shoe.

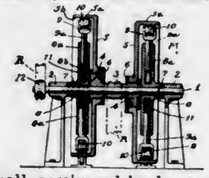
2,167,275
HIGH VOLTAGE X-RAY TUBE
Malvern J. Gross and Zed J. Atlee, Chicago, Ill., assignors to General Electric X-Ray Corporation, a corporation of New York
Application October 7, 1935, Serial No. 43,816
16 Claims. (Cl. 250—145)



1. An X-ray tube comprising an envelope, an anode having a target, a cathode, and a tubular shield surrounding said target and extending in the direction of said cathode, said cathode comprising a focusing cup having a hemispherical depression and a filament disposed centrally in said hemispherical depression, the configuration of the filament being such that the wall of the hemispherical depression causes the electrons emitted from said filament to flow in substantially parallel lines for a substantial portion of the length of the electron beam and to diverge within said anode shield to form a larger focal spot upon the target.

2,167,276
POWER TRANSMISSION APPARATUS
Ernest T. Harmon, Lewiston, and Philip W. Doherty, Portland, Maine
Application August 12, 1938, Serial No. 224,594
7 Claims. (Cl. 74—64)

1. Apparatus of the class described comprising a rotatable shaft, a roll-equipped body secured on said shaft, an eccentric mounted to rotate independently of, but on an axis coincident with the axis of, said shaft, a cylindrical member, having a head with a bored hub portion, operably mounted on said eccentric, the cylinder portion of said cylindrical member adapted to



engage said roll-equipped body, and in its eccentrical movements force said roll-equipped body to revolve around said shaft, means to prevent said cylindrical member revolving on its own diametrically central point, and means to rotate said eccentric.

2,167,277
AUTOMOBILE TIRE
Irvin B. Kaiser, Lyons, N. Y.
Application June 16, 1936, Serial No. 85,535
2 Claims. (Cl. 152—176)



1. A pneumatic tire having a body portion with a plurality of annular grooves therein, a rubber ring placed in each of said grooves and extending above the periphery of the tire, each of said rings having semicylindrical extensions on the sides thereof extending from the top to the bottom of the ring, corresponding recesses in the body of the tire in which said extensions engage each of the grooves having a rectangular cross section and each of the rings having a rectangular cross section that fits the grooves, said grooves and rings running continuously around the tire.

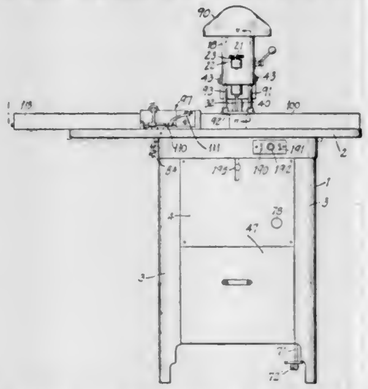
2,167,278
FIREPROOFING COMPOSITION
Martin Leatherman, Hyattsville, Md.
No Drawing. Application November 20, 1935, Serial No. 50,763
4 Claims. (Cl. 134—78.6)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A fireproofing composition of matter comprising a mixture of a plurality of mutually precipitated water-insoluble metallic oxides, at least one of which is a metallic oxide chosen from the group consisting of stannic oxide, cupric oxide, manganese dioxide, and lead dioxide, said mixture being suspended in a chlorinated resin that will liberate hydrogen chloride when heated.

2,167,279
ROTARY PUNCHING AND NOTCH CUTTING MACHINE
Fred L. Manny, Benton Harbor, Mich., assignor to F. P. Rosback Company, Benton Harbor, Mich.
Application July 14, 1938, Serial No. 219,113
33 Claims. (Cl. 164—87)

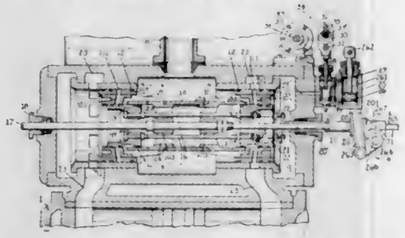
1. A boring and cutting machine for stacks of

paper sheets and like work, comprising a hollow slotting tool of hardened sheet metal bent to provide a forward nose, rearwardly extending sides, and a sharpened cutting edge, a hollow rotary boring tool having a sharpened edge in horizontal alinement with the cutting edge of said slotting tool, said cutting edges being closely associated for reciprocation in a direction axially of the boring tool, means for mounting said tools for vertical reciprocation together toward and away from the



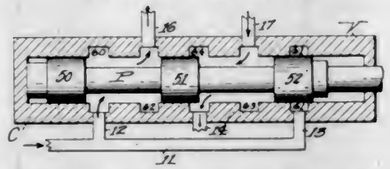
work, means for reciprocating said means comprising a rack on said mounting means, a pinion meshing with said rack, and means for rotating said pinion, single revolution clutch means controlling the rotating means for said pinion, and a spring operatively engaged with said mounting means to return the same to initial position following a boring and cutting stroke, and means for withdrawing chips resulting from the boring and cutting operation through said tools by suction.

2,167,280
LOCOMOTIVE VALVE MECHANISM
Frank G. Markey, Battle Creek, Mich.
Application January 11, 1937, Serial No. 120,010
13 Claims. (Cl. 121—146)



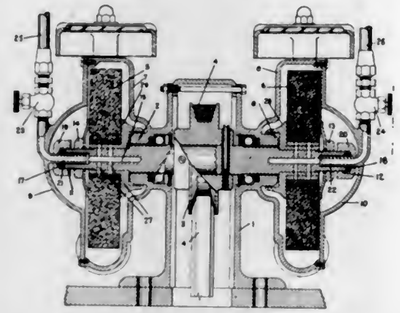
1. In a locomotive valve structure, a suitable casing, a main engine valve made up of a pair of ported heads, counterbored as cylinders and coupled together with a sleeve-like coupling and forming a complete tubular, double-headed main piston valve, and having a pair of cut-off ports formed in said valve heads to be controlled within the cylindrical bore, each head having a central hub supported by radial spider arms, an independently movable double-headed cut-off valve, the heads of which each reciprocate within the bore of the corresponding main valve head and are formed with an annular groove to couple said pairs of ports alternately for the passage of steam and to cut off the same in said head at predetermined intervals to control the cut-off of the engine, the heads of said cut-off valve being coupled together by parallel longitudinal rods disposed at each side of said hubs and between the radial spider arms, a valve stem for the main valve disposed through a suitable stuffing box on said casing head and connected to said central hubs and with an extension beyond said valve casing, a toothed rack formed on the outer end of said extension beyond said valve casing, a tubular valve stem for said cut-off valve extending through a stuffing box in the opposite head of said casing, said tubular valve stem adapted to fit the said main valve stem extension for reciprocal steam-tight engagement therewith, whereby the main engine valve may be controlled in the usual way and the cut-off valve may be independently controlled within the main engine valve by the said tubular valve stem, a bracket secured to the outer end of said tubular valve stem, a rocker pivotally connected to said bracket, an engine cylinder with reciprocating piston carried by said valve head, suitable links connecting the crosshead thereof to said rocker, an engine valve connection for controlling the piston of said engine whereby the cut-off valve will be operated by the action of the piston in said cylinder, a pilot engine valve suitably connected to control the admission and exhaust of steam from the said cylinder, a valve stem to the said engine valve bearing a suitable crosshead, a timer shaft disposed to cooperate with said crosshead, eccentric cams on said timer, cam rollers on said crosshead whereby the movement of the said engine valve is controlled by the said timer shaft, a geared balance wheel on said timer shaft, suitable connections for driving said timer shaft through said gear wheel connected to the locomotive links, an electric motor with a pinion on its driving shaft meshing with said gear to maintain the rotation thereof and avoid dead center, a differential gear for said timer shaft, connections for controlling the angle of said differential gears and thereby controlling the timing of said shaft, whereby the said engine is operated in timed relation to the said locomotive engine and the timing of the cut-off thereby determined.

2,167,281
PRESSURE-SUSTAINING VALVE
Kenneth C. Monroe, Hudson, Mass., assignor to The Lapointe Machine Tool Company, Hudson, Mass., a corporation of Maine
Application March 21, 1938, Serial No. 197,082
1 Claim. (Cl. 251—76)



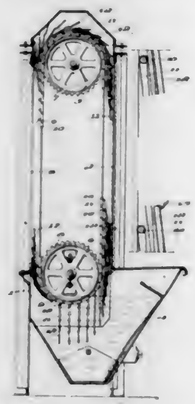
A valve comprising a cylindrical casing having two operating ports, two pressure supply ports and an exhaust port, an axially movable valve member having three piston elements in definite spaced relation, and means to move said valve member, said ports and piston elements being so spaced axially of said valve member that a first operating port remains connected to its pressure supply port as said valve member is moved axially until after the second operating port has been connected to the second pressure supply port, and said first operating port being thereafter connected to the exhaust port by further axial movement of said valve member in the same direction.

2,167,282
GRINDING WHEEL AND A METHOD FOR COOLING THE SAME
David Z. Murphy, Portland, Oreg.
Application April 16, 1938, Serial No. 202,495
4 Claims. (Cl. 51—267)



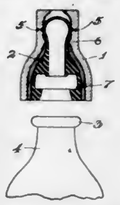
1. In a device of the class described, the combination of a stand and an arbor journaled within the stand, abrasive wheels disposed upon the arbor, said arbor being bored coaxially with its center line at its ends, a feeder pipe disposed within the bored end of the arbor, a stuffing box disposed about the pipe and secured to the end of the arbor, a collar fitted to the arbor and adjustable longitudinally of the arbor and adapted for supporting wheels of different widths, and ports communicating the bore of the abrasive wheel with the bore of the arbor, and said collar adapted for closing predetermined ones of said ports.

2,167,283
AIR FILTER LINT SCREEN
Arthur Nutting, Louisville, Ky., assignor to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware
Application April 4, 1938, Serial No. 199,849
3 Claims. (Cl. 183—62)



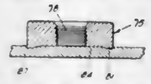
1. In an air filter: a support; an endless series of air filter panels, each pivotally suspended in air filtering position from said support to overlie and contact with a portion of the next adjacent panel, leaving another portion thereof exposed; and a lint screen attached to the free end of each of said panels to overlie the exposed portion of the next adjacent panel.

2,167,284
SHIELD FOR NURSING NIPPLES
Howard R. Sauder, Wheeling, W. Va.
Application February 11, 1939, Serial No. 255,815
1 Claim. (Cl. 128—252)



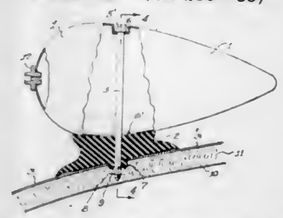
In a shield for preserving the sterility of rubber nipples while attaching the same to an infant's nursing bottle consisting of a shield adapted to envelop a nipple, said shield having an axial bore extending longitudinally of the shield, and an inwardly extending annular rib provided in said bore adapted to engage a nipple at a point near but below the teat portion of said nipple when the latter is enveloped by the shield.

2,167,285
GROMMET
William E. Smith, Detroit, Mich., assignor to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application July 7, 1936, Serial No. 89,346
4 Claims. (Cl. 189—36)



3. A welded structure comprising a metal part upon which is disposed a body having a bore and projection means on its base welded to the metal part, said projection means being spaced a substantial distance from said bore, and the base of the body being recessed adjacent the bore to form a depository for the fused metal of the projection means to preclude it from entering and obstructing said bore.

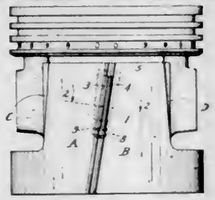
2,167,286
AERIAL
Thomas O. Theobald, Royal Oak, Mich.
Application July 23, 1937, Serial No. 155,287
8 Claims. (Cl. 250—33)



1. An aerial including a hollow sheet metal body, an insulating bracket formed at its upper end to provide a seat for said body and formed at its lower end to seat upon a sheet metal wall of a car body having an opening, said lower end being saucer-shaped with an expansible insulating member projecting centrally therefrom into said opening, a bolt extending through said aerial body, bracket and projecting member, and means on the lower end of said bolt to engage the lower end of said projecting member to draw said

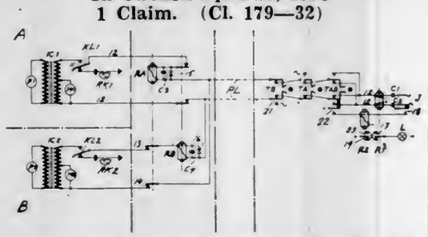
bracket closer to said wall and cause said projecting member to be expanded upon turning movement of said bolt.

2,167,287
PISTON SKIRT EXPANDER
Leon A. Witter, Parma, Ohio
Application February 10, 1934, Serial No. 710,658
13 Claims. (Cl. 309—12)



1. A piston skirt expander including a tapered sleeve member having a slot extending lengthwise thereof, said sleeve having lip portions adjacent said slot adapted to engage the edges of a slot in the skirt of a piston, a tapered plug fitting within said sleeve and means for drawing said plug into said sleeve to vary the width of said slot in said sleeve.

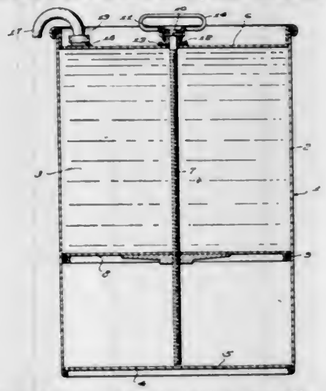
2,167,288
TELEPHONE SYSTEM HAVING TWO-PARTY LINES
Harald Valdemar Alexandersson and Otto Georg Reinhold Siewert, Stockholm, Sweden, assignors to Telefonaktiebolaget L. M. Ericsson, Stockholm, Sweden, a company of Sweden
Application March 3, 1938, Serial No. 193,758
In Sweden April 23, 1936
1 Claim. (Cl. 179—32)



In a telephone system having two party lines connected to a central battery, a relay individual to each subscriber branch line and connected in series with said branch line, each of said relays adapted when energized to disconnect the other subscriber branch line, a half-wave rectifier connected in parallel with each of said relays and so directed that the current normally sent from the central battery during a conversation between one of the two party line subscribers and a subscriber outside the party line actuates said relay, and means for reversing the direction of the current during a connection between the two subscribers of the same party line.

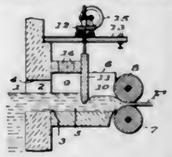
2,167,289
GREASE CONTAINER
Henry H. Boehm, Council Bluffs, Iowa
Application November 23, 1938, Serial No. 242,078
2 Claims. (Cl. 221—79)

1. A grease container of the class described comprising a cylinder for the reception of grease, said cylinder including a top on its upper end portion, a screw shaft extending rotatably through the top into the cylinder, an ejector threadedly mounted on the screw shaft for actuation thereby and operable in the cylinder, a sleeve mounted on the upper end portion of the screw shaft above the top, a pin securing the sleeve to the screw shaft and projecting outwardly



from said sleeve, an operating handle for the screw shaft journalled for swinging movement on the end portions of the pin, an external flange on the lower end of the sleeve, and a packing mounted between said flange and the top for preventing leakage around the screw shaft where it passes through said top.

2,167,290
APPARATUS FOR THE MANUFACTURE OF GLASSWARE
Louis Boudin, Saint-Gobain, France, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France
Application June 16, 1936, Serial No. 85,577
In France June 26, 1935
7 Claims. (Cl. 49—56)

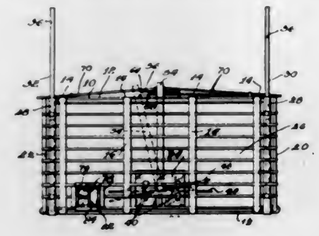


1. The combination of a glass furnace having an issue opening in the wall thereof, a reservoir external to the furnace and located adjacent said opening, a vertical partition dividing transversely the reservoir into two parts, one of which is exposed to the outside air, means for vertically and horizontally adjusting said partition, a cover for the reservoir between the partition and the furnace said cover comprising a plurality of obliquely cut and slidable elements adjustable to compensate for horizontal movements of said partition, and a forming apparatus located close to that part of the reservoir remote from the furnace.

2,167,291
TRAP
Walter E. Bowman, Norfolk, Va.
Application July 23, 1936, Serial No. 92,229
2 Claims. (Cl. 43—61)

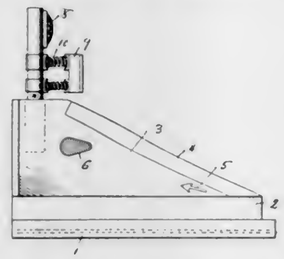
1. In a trap, two end closures, a fulcrumed platform, a lever, means connected at right angles to said platform for striking said lever, and means

connected to said lever for holding said end closures in open position substantially above said



trap, said lever striking means and said second means being operated by movement of said platform.

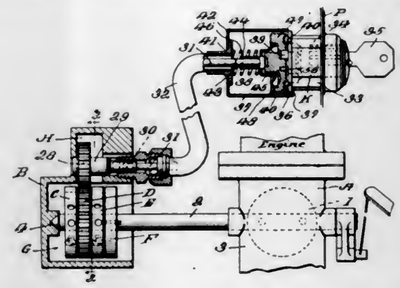
2,167,292
SAFETY GUARD
Frank J. Catanzaro, Cincinnati, Ohio
Application July 23, 1938, Serial No. 220,989
1 Claim. (Cl. 94—1)



A safety guard of the class described comprising a base, a curb-forming part on the base, said part being of substantially triangular shape and having vertical side walls which are spaced inwardly from the side walls of the base, a body rising from the curb-forming part and of triangular shape in plan with the side walls sloping upwardly and inwardly from the side walls of the curb-forming part, the upper portions of the sloping parts of said side walls of the body forming a centrally arranged ridge which slopes downwardly and forwardly to the front end of the curb-forming part, a post embedded in the rear part of the upper portion of the body, a spring bumper carried by the post with the front face arranged over the upper end of the ridge and a reflector carried by the post above the bumper, said base, the curb-forming part and the body being integrally connected together.

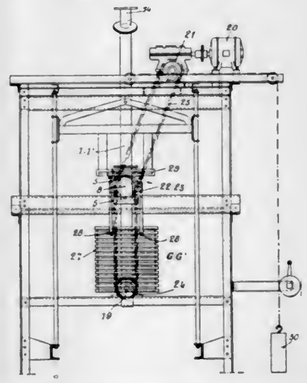
2,167,293
SPEED CONTROL FOR COMBUSTION ENGINES
Harry D. Cochran and John L. Smith, New Castle, Pa.
Application October 19, 1938, Serial No. 235,847
18 Claims. (Cl. 123—102)

1. The combination with an explosive type engine including an electrical connection for the ignition system and a fuel feeding device including a rotatable movable control means to vary the amount of fuel fed by said device to said engine, a switch in said electrical connection for the ignition system, said movable fuel feed control adapted to open and close said switch, and means to set said switch to cause the same to be



opened by said fuel control at a predetermined point in the travel of said control.

2,167,294
PROCESS AND APPARATUS FOR THE HARDENING OF GLASS
Georges Paul Despret, Paris, France, assignor, by mesne assignments, to The American Securit Company, a corporation of Delaware
Application May 26, 1932, Serial No. 613,743
In France September 2, 1931
9 Claims. (Cl. 49—45)

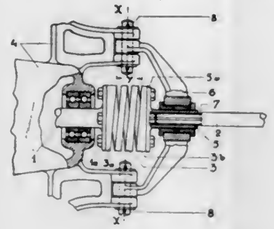


1. A process for manufacturing hardened glass which consists in blowing a cooling fluid onto the surface of the glass article in the hot state and moving the jets of fluid along concentric closed endless paths.

2,167,295
DRIVING GEAR OF MOTOR CARS
Robert Döme and Paul Jaross, Budapest, Hungary
Application December 2, 1937, Serial No. 177,809
1 Claim. (Cl. 64—15)

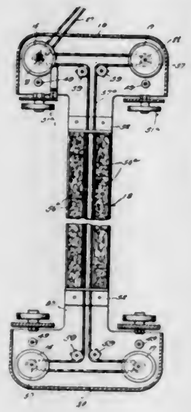
In a driving gear for motor cars, a driving shaft, a hinged driven shaft, allowed to swing with respect to said driving shaft, a coil spring coupled to said shafts and mounted to permit changes of length of said coil spring, an expansion coupling at least between one end of said spring and the respective shaft, journals on the ends of said shafts adjacent to the said spring and supporting members comprising said journals embracing said spring externally and linked to each other by means of pins, the axis of which crosses

the resilient section of said spring at the point of intersection of the driving shaft and the driven



shaft when under angle with respect to the former.

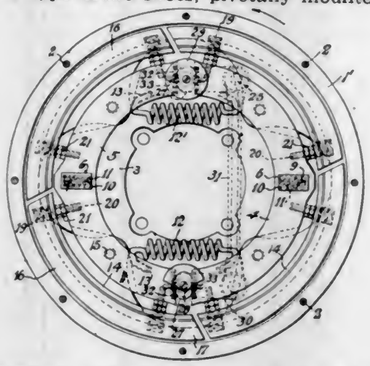
2,167,296
AUTOMATIC BLACKBOARD ERASER
Gordon C. Farmer, Richlands, Va.
Application December 22, 1936, Serial No. 117,199
1 Claim. (Cl. 15—97)



Apparatus for cleaning blackboards and for use with hand erasers comprising an eraser carriage including a vertically disposed channel bar closed adjacent the ends thereof and forming a chamber of a width and length providing for the stacking therein of vertical rows of erasers stacked on end in each row, means to mount said carriage for traveling movement along said blackboard comprising a pair of track members extending along the upper and lower edges of said board, upper and lower pairs of traction wheels mounted on said carriage for engagement with said track members, the wheels in each pair being spaced upon opposite sides of the carriage to stabilize the latter, a motor drive common to all of said wheels and including a single sprocket chain operatively connected to the wheels, and resilient means in said carriage for urging said erasers into yielding engagement with said board including a rubber cushion strip.

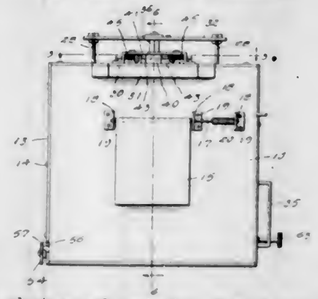
2,167,297
BRAKE
George McKinley Fitts, Washington, D. C.
Application September 7, 1935, Serial No. 39,652
6 Claims. (Cl. 188—78)

1. A brake comprising a drum, brake shoe carriers, V-type brake shoes, pivotally mounted on



said carriers, said shoes having V-shaped ends interfitting into each other.

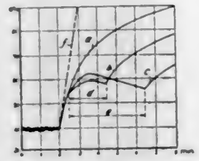
2,167,298
PHOTOGRAPH PRINTING FRAME
John W. Hardy, Pacific Beach, Calif.
Application January 4, 1939, Serial No. 249,305
4 Claims. (Cl. 88—24)



1. A photograph printing frame comprising a casing having an exposure opening, a frame in the casing, a paper holder in the frame, a rod adjustably mounting the paper holder in the frame with relation to the exposure opening, said rod being of polygonal formation in cross section and being provided with a plurality of openings in its side faces, a spring pressed pivoted dog carried by the paper holder and selectively engageable in the openings in the rod, a spring controlled push rod slidably mounted on the frame and having a cam face engageable with the dog to disengage the dog from said openings, and means on the paper holder for manipulating the paper holder.

2,167,299
METHOD AND APPARATUS FOR PREVENTING EXCESS PRESSURE INCREASE IN STEAM GENERATORS WITH LOW WATER CONTENT
Otto H. Hartmann and Rudolf Loewenstein, Kassel-Wilhelmshohe, Germany, assignors to the firm Schmidt'sche Heissdampf, Gesellschaft m. b. H., Kassel-Wilhelmshohe, Germany
Application September 22, 1936, Serial No. 102,030
In Germany October 19, 1935
10 Claims. (Cl. 122—35)

1. A steam generating apparatus for intermittently furnishing steam to a consumer while maintaining a substantially constant boiler pressure during intermittent operation comprising a steam generating boiler of the low water content type, a condensing receptacle of less water content than said boiler, feed water means for said boiler, steam take-off means for said boiler, means for suddenly closing off said take-off



means, means to conduct steam from said boiler to said receptacle, and means for injecting condensing water into the steam in said receptacle during periods of no steam take-off from said boiler.

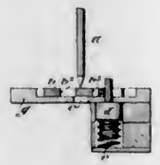
2,167,300
WATERPROOFING SOLUTION FOR CEMENT AND STUCCO
William B. Houston, Alhambra, Calif.
No Drawing. Application November 3, 1936, Serial No. 109,062
3 Claims. (Cl. 134—78.5)

3. A protective composition for cement, stucco and bodies of similar material, consisting of sodium stearate soap 5%, commercially prepared ready-to-use varnish 2½%, a solvent for the varnish with which the varnish is thinned 7½%, alcohol 15%, and water 70%.

2,167,301
ALLOY CAST IRON
Edwin A. Jones, Jackson, and Arthur H. Dierker, Columbus, Ohio, assignors to Globe Iron Company, Jackson, Ohio, a corporation
No Drawing. Application March 23, 1938, Serial No. 197,726
4 Claims. (Cl. 75—126)

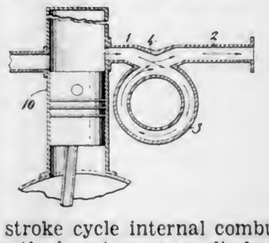
1. An alloy cast iron, having silicon in proportions greater than chromium, and in which a substantial part of the carbon is in the form of free graphite, said alloy containing silicon 4.23% to 10.00%; chromium 0.6% to 8.00%; manganese 0.20% to 3.00%; phosphorus under 0.30%; sulphur under 0.20%; carbon 1.80% to 3.20%, and the balance iron.

2,167,302
BARREL SAFETY MEANS FOR FUSES
Helmut Junghans, Schramberg-Sulgen, Germany
Application March 4, 1937, Serial No. 129,106
In Germany March 4, 1936
7 Claims. (Cl. 102—39)



1. In a fuse for projectiles having a firing pin, a safety mechanism comprising a slide mounted in a plane generally at a right angle to said firing pin so that in one position it will intercept movement of the firing pin to firing position, a spring mounted to force said slide into non-intercepting position, a bolt mounted for movement parallel to the direction of the axis of the projectile, a device frictionally gripping said bolt adjacent one end thereof and normally positioned thereon to block movement of said slide to its non-intercepting position and thereby prevent operation of said firing pin, and spring means acting on said bolt adjacent the other end thereof in a manner to hold said bolt with the device in normal blocking position, said safety mechanism being so proportioned and arranged that firing of said projectile will cause setback of said bolt against action of the spring acting thereon and slippage of said device on said bolt whereby when acceleration of said projectile ceases said spring will force the bolt forward and carry said device out of blocking engagement with said slide and permit said slide spring to move said slide to non-intercepting position.

2,167,303
EXHAUST DEVICE FOR INTERNAL COMBUSTION ENGINES
Michel Kadenacy, Paris, France
Application August 31, 1935, Serial No. 38,826
In Great Britain August 31, 1934
2 Claims. (Cl. 60—32)

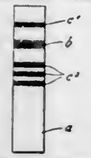


1. A two stroke cycle internal combustion engine wherein the burnt gases are discharged from the cylinder into an exhaust conduit substantially as a mass whereby the said mass moves outward and thereafter returns towards the cylinder from a point which may be within the said exhaust conduit, and wherein an inlet is opened for the introduction of fresh charge while the exhaust port is still open and when the said issuance of the burnt gases is in full progress and causes a suction effect to be exerted in the cylinder, the said exhaust conduit providing a free passage for the burnt gases to the limit of outward travel of said mass and having a chamber in connection with said passage and wherein substantially the whole mass of burnt gases after leaving the cylinder is guided and is caused to adopt a whirling motion as a compact mass whereby the outward motion of the said mass is prolonged and the rebound of said mass towards the cylinder is delayed and reduced in intensity.

2,167,304
SUPERVISION OF THE UNIFORMITY OF GALVANIC BATHS
Gerhard Kloz, Leipzig, Germany
Application May 12, 1936, Serial No. 79,397
3 Claims. (Cl. 23—230)

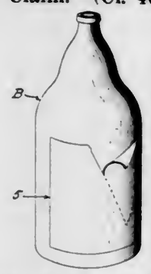
1. A method of ascertaining the pH value of a liquid, e. g. a galvanic bath, which consists in dipping into the liquid a paper saturated with an indicator adapted to change colour over a pH range which includes the pH value of the liquid and also a piece of the same paper bearing the

conversion colours of this indicator for individual pH values within the range, and comparing



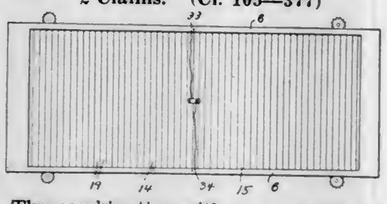
the colour change of the former paper with the colours borne by the latter paper.

2,167,305
LABEL
Henry A. Kropp, Reading, Pa.
Application September 20, 1938, Serial No. 230,860
1 Claim. (Cl. 40—4)



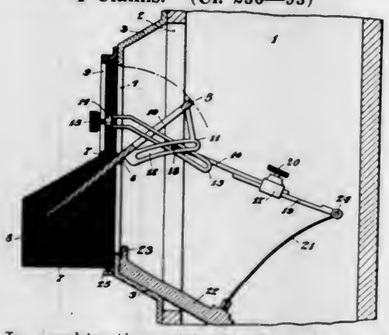
In combination with a bottle, a label affixed thereto having a portion intended to be torn out from the upper edge of said label while the bottle is resting on its bottom, said portion being in part defined between lines of weakness starting at points a short distance inwardly of said upper edge and convergent toward the bottom edge of said label, said portion including also the laterally unweakened area between said upper edge and an imaginary line joining said starting points, said portion to be torn out being free from adhesive and devoid of any transecting lines of weakness.

2,167,306
CLOSURE FOR COAL CARS
Herman Kundert, Lima, Ohio
Application September 27, 1938, Serial No. 231,969
2 Claims. (Cl. 105—377)



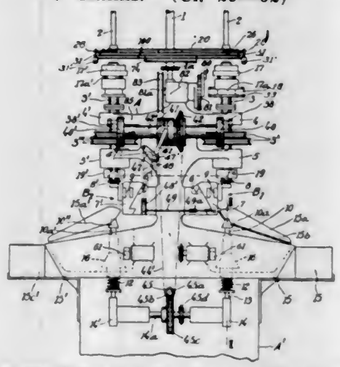
1. The combination with an open top car having side and end walls, of closing means for said top comprising a pair of upper and lower guide flanges extending inwardly from each side wall adjacent the upper edge thereof, a pair of flexible shutter assemblies slidably mounted at the side edges thereof between the upper and lower guide flanges for endwise movement in opposite directions longitudinally of said car into opening and closing positions, and means to move said shutter assemblies independently comprising a pair of rollers mounted at opposite ends of the car transversely thereof and operatively connected to said assemblies, respectively, for rotation in opposite directions to roll up said assemblies thereon and unroll the same therefrom, spring means operatively connected to each roller to rotate the same in a direction to roll up said assemblies, and a crank operated drive for each assembly operatively connected to the side edges thereof to unroll the same from the related roller.

2,167,307
DRAFT REGULATOR FOR COMBUSTION APPARATUS
Louis Monney, Lausanne, Switzerland, assignor to the firm Recomatic S.-A., Geneva, Switzerland, a firm of Switzerland
Application January 7, 1938, Serial No. 183,879
In Switzerland November 15, 1937
4 Claims. (Cl. 236—93)



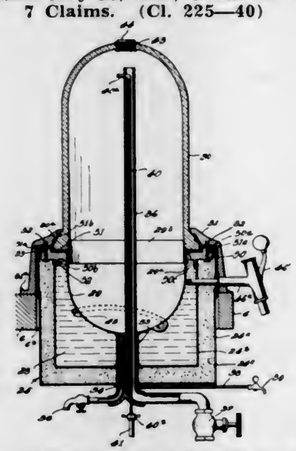
1. In combination with the flue of a combustion apparatus having an opening for admitting air, a pivotally mounted shutter for controlling the admission of air through said opening, a thermostat subjected to the temperature of the gases passing through the flue, a slotted member carried by the shutter, a rod having one end connected to the thermostat and the other end engaging the slot in said member, and manually operable means for moving the slot engaging end of said rod along said slot to vary the rate of movement of said shutter under the action of the thermostat.

2,167,308
MACHINE TOOL FOR BAR STOCK
Eugen Nädelin, Ebingen, Germany, assignor to Alfred Guhring, Ebingen, Wurttemberg, Germany
Application June 10, 1938, Serial No. 213,041
In Germany June 12, 1937
7 Claims. (Cl. 29—62)



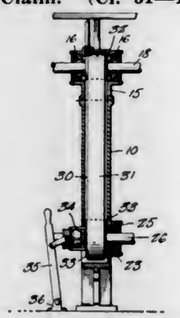
1. In a machine tool for the periodical machining of bar stock, a plurality of tooling units; a control operatively connected to all units, means for adjusting the control for a predetermined number of machining operations on each bar in each unit, and mechanism influenced by the length of the bars for placing the control in active condition.

2,167,309
BEVERAGE DISPENSING APPARATUS
John L. Norton, New York, N. Y., assignor of one-half to Abraham S. Levin, Philadelphia, Pa.
Application July 16, 1937, Serial No. 154,057
7 Claims. (Cl. 225—40)



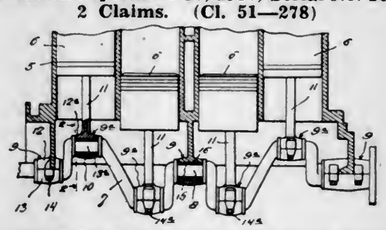
1. The combination in a beverage dispensing unit or the like providing a beverage chamber; of a vent pipe extending upwardly in said chamber to a point adjacent the top thereof for the outlet of gas, valve means controlling the venting of gas from said chamber through said pipe; said chamber having a beverage outlet means and a valve-controlled cleaning fluid supply pipe connected to said vent pipe whereby such chamber and beverage outlet means may be flushed out to remove beverage residue therefrom.

2,167,310
SHOE FINISHING MACHINE
Nick Orgitano, Lebanon, Pa.
Application June 8, 1938, Serial No. 212,564
1 Claim. (Cl. 51—166)



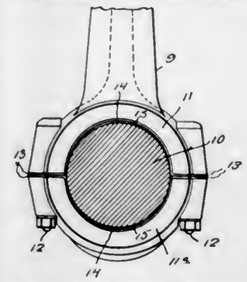
A machine of the character described comprising a stand having a leg provided with a recess longitudinally directed therein and opening through the top and laterally from one side of said leg, a capping piece closing the open top of said recess and superimposed upon the leg, driving and driven shafts journaled for passage through the recess at the lateral opening therein and the capping piece, side formations on the capping piece and having bearings encircling the shaft fitting said capping piece, belt pulleys on said shafts and accessible through the lateral opening of said recess and capping piece, respectively, an endless belt confined within the recess and trained over the said pulleys for effecting driving connection between the shafts and a clutch connection between the shaft passing through the leg recess and engaging the pulley next thereto.

2,167,311
METHOD OF ABRADING CRANKSHAFTS
Frank Postma, Ridgewood, N. J.
Application September 17, 1937, Serial No. 164,390
2 Claims. (Cl. 51—278)



1. The method of abrading the main journal of an engine crankshaft without removing the latter from the engine, which consists in substituting in the actual main engine bearing and for the bearing liner sections of said bearing, thin abrading liner sections composed of thin outer shells of stiff strong sheet material having abrading material bonded to their inner surfaces and corresponding in form and size to said bearing liner sections, securing said abrading liner sections in the bearing by the means which secures the bearing sections together so that the abrading material thereof contacts the surface of the crankshaft journal, and rotating the crankshaft while in the engine so as to subject its journal to the action of said abrading liner sections.

2,167,312
ABRADING ELEMENT
Frank Postma, Ridgewood, N. J.
Application November 5, 1937, Serial No. 173,013
2 Claims. (Cl. 51—204)



1. As a new article of manufacture, an abrading liner for abrading the journal of an engine crankshaft bearing, consisting of a pair of semi-cylindrical members adapted to be accommodated in the limited clearance space between the actual crankshaft bearing and the crankshaft journal of the engine and to seat against the bore of the bearing, each of said semi-cylindrical members

being composed of a thin outer shell of relatively stiff and strong sheet material having granular abrading material bonded to its inner surface, the abrading material of each abrading liner member being of effective thickness intermediate the ends of its outer shell and gradually decreasing in thickness toward the ends of the latter.

2,167,313

MOLDABLE COMPOSITION AND PRODUCT

Wilhelm Röhrs, Hessenwinkel, near Berlin, Germany, assignor to Bakelite Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 1, 1936, Serial No. 98,902. In Germany September 3, 1935

9 Claims. (Cl. 260—38)

1. A moldable composition comprising a homogeneous mixture of heat-hardenable synthetic resin and a filler consisting mainly of fluorite in powdered form, the amount by weight of the fluorite being at least as great as the amount by weight of the resin, said composition when molded and the resin content thereof hardened yielding an article having thermally and electrically insulating properties and an impact strength of the order of 6 cm. kg./cm.², and being non-absorptive to water.

2,167,314

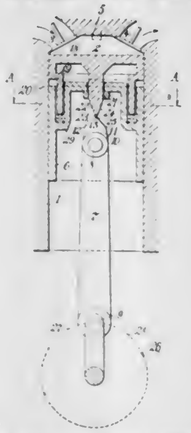
MEANS FOR CONVERTING RECIPROCATING INTO ROTARY MOTION

Chandra Sekhar Sarkar, Calcutta, India

Application January 28, 1938, Serial No. 187,541

In Great Britain March 8, 1937

5 Claims. (Cl. 74—36)



1. In means for converting reciprocating into rotary motion embodying main and auxiliary reciprocating members constituting a two-part piston or cross-head, of a crank, a connecting rod interposed between the main reciprocating member and said crank and having at least one projecting element rigidly connected thereto, the auxiliary reciprocating member having at least one projecting element rigidly connected thereto, both the main and auxiliary reciprocating members having co-operating surfaces to allow said members to operate as one unit without relative motion between them during compression and expansion strokes except near dead centre, said projecting elements constituting separated extensions of the connecting rod and auxiliary reciprocating member and which are brought into operative engagement near the dead centre in a manner to exert additional effort to turn the crank over dead centre.

2,167,315

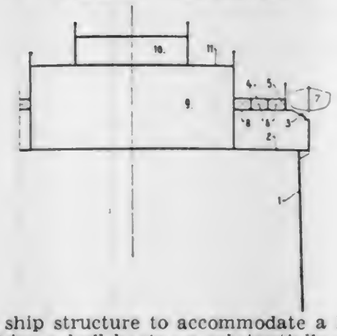
SHIP

Ane Pieter Schat, Utrecht, Netherlands

Application December 15, 1936, Serial No. 116,018

In the Netherlands December 16, 1935

4 Claims. (Cl. 114—65)



1. A ship structure to accommodate a lifeboat comprising a hull having a substantially vertical outer side wall, a promenade deck positioned adjacent and overhanging the vertical outer side wall of the hull, a boat deck above the promenade deck comprising a horizontal deck portion, a substantially vertical wall disposed inwardly of the outer side wall of the hull, and an outwardly and downwardly extending portion sloping from said vertical wall towards and at least as far as the outer side wall of the hull, said latter portion forming a boat receiving recess, and a davit associated with said outwardly and downwardly extending portion constructed and arranged to swing the boat out from said recess and over said extending portion for lowering said boat.

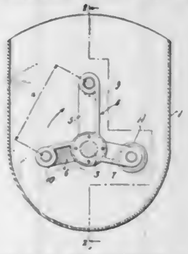
2,167,316

ROTARY MIXER

John I. Spangler and John A. Eades, York, Pa., and Eugene H. Purdy, Washington, D. C., assignors to Read Machinery Company, Incorporated, York, Pa., a corporation of Pennsylvania

Application May 31, 1938, Serial No. 211,050

14 Claims. (Cl. 259—109)



1. A dough mixer comprising a mixing chamber and an agitator within said mixing chamber arranged for rotation about a horizontal axis, said agitator comprising a plurality of freely rotatable rollers all of different diameters supported at equal distances from the axis of rotation of the agitator and a freely rotatable pick-up member supported at a greater distance from said axis of rotation.

2,167,317

PROCESS OF PROTECTIVE COATING

Adolph Stenson, Elbow Lake, Minn.

No Drawing. Application March 25, 1938, Serial No. 198,134

2 Claims. (Cl. 91—68)

1. In the process of providing a protective weather resistant substantially water impervious coating upon an unfinished surface including, applying a plastic bituminous composition thereto whereby the pores, interstices, openings and cracks in said surface are substantially filled and a smooth face provided, the improvement which consists of applying to a surface so-prepared a composition comprising granular Vermiculite and Portland cement mixed in equal proportion in water to produce a substantially inert hardenable product, drying said surface so-prepared until it is in substantially non-tacky condition, and thereafter coating same with a layer of substantially long oil high gloss enamel.

2,167,318

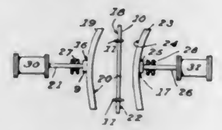
METHOD AND MEANS FOR SHAPING GLASS

Achille Verlay, Longueil-Annel, France, assignor to Societe Anonyme des Manufactures des Glaces & Produits Chimiques de Saint-Gobain, Chauny & Cirey, Paris, France

Application November 23, 1934, Serial No. 754,525

In France November 25, 1933

9 Claims. (Cl. 49—7)



8. In an apparatus for bending glass sheets, the combination of a plurality of supporting means to engage the sheet near its upper edge at points separated from each other, each of said means being free to move laterally with the sheet and to turn on a vertical axis with the sheet during the bending, means for heating the sheet until the glass is at the softening point, and means for bending the sheets to a desired curvature in respect to a horizontal plane.

2,167,319

PROCESS FOR THE MANUFACTURE OF POLYSULPHIDES OF ORGANIC BASES AND OF THEIR SOLUTIONS

Andreas von Antropoff and Johannes Friedrichsen, Bonn-on-the-Rhine, Germany, assignors to the firm of Carl Blank K. G., Bonn-on-the-Rhine, Germany

No Drawing. Application May 10, 1938, Serial No. 207,162. In Germany June 28, 1937

16 Claims. (Cl. 167—65)

1. Process for the manufacture of polysulphides of organic bases which comprises contacting a mixture of a hydroxyalkylamine and sulphur in the presence of hydrogen sulphide while maintaining the mixture in a fluid state.

2,167,320

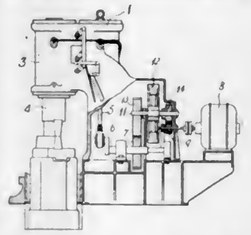
AIR HAMMER

Shigeru Yabe, Nishiyodogawaku, Osaka, Japan

Application March 15, 1937, Serial No. 131,112

5 Claims. (Cl. 78—42)

1. In a pneumatic hammer, the combination with a reciprocating hammer, a reciprocating pump and conduits cooperatively connecting the pump and hammer, of a power drive for said pump comprising, a driven shaft operatively connected thereto, a uniformly rotating driving shaft, a variable gear connection between said



shafts, said gear connection causing said driven shaft to be driven at an increasing speed from the driving shaft through the upper portion of the stroke of the pump to increase the impact of the hammer upon the work.

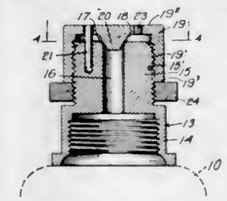
2,167,321

ADJUSTABLE VENTING CONTROL FOR AIR VALVES

Charles W. Abercrombie, Nichols, Conn., assignor to Bridgeport Brass Company, Bridgeport, Conn., a corporation of Connecticut

Application June 18, 1937, Serial No. 148,853

9 Claims. (Cl. 251—8)



1. In a device of the character described, the combination of a base member having an air passage and a valve seat at its upper end, a cap member rotatably associated with said base member and having a limited opening therein and a valve thereon adapted to cooperate with said valve seat for adjustable restriction of air venting through said passage, a fixed member positioned in said base member and projecting into said limited opening for limiting rotation of said cap member and simultaneously preventing disassembly of the combination, and a locking member associated with said base member for locking said cap member in any adjusted position, said locking member being mounted below said cap member whereby the former may not be removed after said device has been assembled.

2,167,322

FILTERING APPARATUS

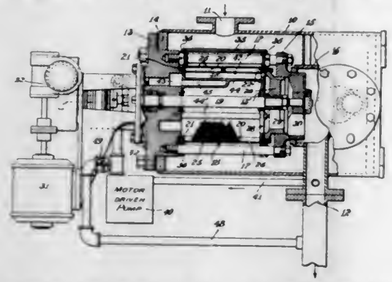
Charles H. Cuno and Sidney L. Wolfson, Meriden, Conn., assignors to The Cuno Engineering Corporation, Meriden, Conn., a corporation of Connecticut

Application July 17, 1936, Serial No. 91,034

3 Claims. (Cl. 210—167)

1. Liquid filtering apparatus including a casing with a cylindrical filtering cage inside the casing and completely immersed in liquid therein, means for forcing liquid to be filtered inwardly through said cage and means for forcing a relatively small backwash stream of the filtered liquid outwardly

at a greater pressure through a part of the cage while liquid is being forced inwardly for filtering



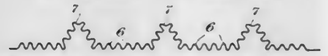
and means for moving the cage relative to the backwash stream.

2,167,323

FILTERING MEDIUM FOR AIR FILTERS

Chester P. Hegan, Louisville, Ky., assignor to American Air Filter Company, Inc., Louisville, Ky., a corporation of Delaware

Application June 30, 1926, Serial No. 119,521
Renewed March 20, 1936
2 Claims. (Cl. 183—45)



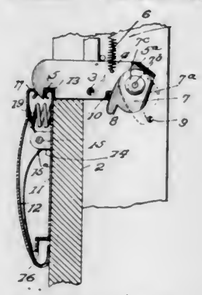
2. A filter medium comprising wire preformed along its length with a series of small corrugations and a series of large corrugations, said wire being arranged in a tangled mass.

2,167,324

LATCH MECHANISM

Louie A. Roberts, Jackson, Miss., assignor of one-third to Charlie W. Roberts, Jackson, Miss.

Application March 7, 1938, Serial No. 194,499
2 Claims. (Cl. 292—254)



1. Latching means comprising a pivoted latch formed on its outer free end with a cam edge and a notch, a fixed plate with its upper end extending beyond a door to which said plate is attached to engage in the notch, a handle element pivoted to the plate, the upper end of the handle element extending beyond the edge of the door and in line with and adapted to contact with the upper end of the plate to engage the cam edge of the latch, the lower end of the plate being bent to form a stop, the lower end of the handle element being bent inwardly to form a pocket for the reception of the stop to limit the movement of said element, whereby when the handle element is operated the upper end first actuates the latch and abuts against the upper beaded end of the plate, the stop limiting the movement of the handle element in opening the door.

2,167,325

AGENTS OF CAPILLARY ACTIVITY

Adolf Steindorff, Gerhard Balle, and Paul Heimke, Frankfort-on-the-Main, and Karl Horst, Hofheim-in-Taunus, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application November 26, 1935, Serial No. 51,678. In Germany December 5, 1934

3 Claims. (Cl. 260—514)

2. Agents of capillary activity consisting essentially of compounds of the general formula $R.O.R_1.X$ wherein R represents a member of the group consisting of the cyclohexyl radical and methyl-cyclohexyl radicals, the radical being substituted in the nucleus at least once by a member selected from the group consisting of aliphatic and cycloaliphatic radicals having from 8 to 18 carbon atoms, R_1 represents an aliphatic hydrocarbon radical, and X stands for a member of the group consisting of COOH, SO_3H and OSO_3H.

2,167,326

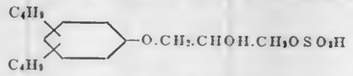
AGENTS OF CAPILLARY ACTIVITY

Adolf Steindorff, Gerhard Balle, and Paul Heimke, Frankfort-on-the-Main, and Karl Horst, Hofheim-in-Taunus, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application May 20, 1937, Serial No. 143,850

4 Claims. (Cl. 260—457)

1. Agents of capillary activity consisting essentially of the compound dibutylphenyl-monoglycerine ether sulfuric acid ester of the formula:



2. A compound of the formula



wherein R represents a member of the group consisting of aromatic and hydro-aromatic hydrocarbon radicals substituted at least once by a member of the group consisting of straight chain aliphatic, araliphatic and cycloaliphatic hydrocarbon radicals having more than three carbon atoms and R_1 represents a member of the group consisting of alkylene and monohydroxyalkylene radicals.

2,167,327

PROCESS FOR BREAKING PETROLEUM SUSPENSIONS

Samuel K. Talley and Carlos L. Gutzeit, Houston, Tex., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application February 19, 1938, Serial No. 191,568

9 Claims. (Cl. 196—4)

1. In the process of liberating petroleum oil from a relatively stable mixture containing said oil and oil-insoluble matter comprising an alkaline earth metal salt which mixture by the addition of ortho phosphates forms secondary mixtures incapable of resolution by further addition of ortho phosphates, the steps of treating said mixture with an alkali metal phosphate selected from the group consisting of meta- and pyrophosphates in an amount between .0005% to .05% by weight of the oil, in the presence of an amount of water sufficient to dissolve the chemical whereby the mixture is broken without forming secondary mixtures.

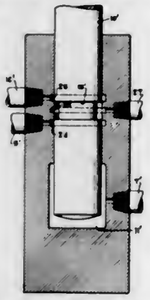
2,167,328

LOAD MAINTAINER FOR MATERIALS TESTING APPARATUS

George E. Beggs, Princeton, N. J.

Application December 11, 1935, Serial No. 53,946

3 Claims. (Cl. 50—35)



1. A fluid load control mechanism for maintaining a constant pressure comprising, in combination, a cylinder having a closed end, a reciprocable plunger disposed in said cylinder and being of uniform diameter throughout that portion of its length having slidable contact with said cylinder, inlet and exhaust annular grooves in the wall of said cylinder and an annular groove in said plunger adapted to communicate directly with either of said other grooves, an outlet located in said cylinder between said inlet and exhaust annular grooves and communicating directly with said plunger groove, and means whereby said outlet communicates with the closed end of said cylinder thereby effecting axial plunger movement in accordance with the outlet pressure, said grooves being arranged so that axial movement of said plunger controls the admission of fluid from said inlet to said outlet and the discharge of fluid from said outlet to maintain a substantially constant pressure therein.

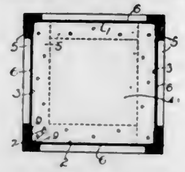
2,167,329

BOX

Ralph J. Byers, Chicago, Ill., assignor to Chicago Mill and Lumber Company, Chicago, Ill., a corporation of Delaware

Application December 20, 1937, Serial No. 180,704

2 Claims. (Cl. 217—17)



1. A box comprising a plurality of plywood walls, reinforcing frames secured to the margins of the plywood walls, metal reinforcing straps extending across the plywood walls and projecting beneath the reinforcing frames and having the ends thereof bent around the edges of the plywood walls and secured to the inner faces thereof.

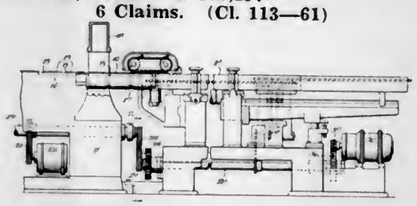
2,167,330

DRIVE MECHANISM FOR LOCK SEAM SOLDERING ATTACHMENTS

Allan M. Cameron, Oak Park, Ill., assignor to Cameron Can Machinery Co., Chicago, Ill., a corporation of Illinois

Original application May 20, 1937, Serial No. 143,715. Divided and this application October 21, 1937, Serial No. 170,197

6 Claims. (Cl. 113—61)



1. The combination with a lock seamer and a soldering attachment including a drive shaft by which the mechanisms of the soldering attachment are driven, of a main motor connected to drive the lock seamer, a driving connection between said main motor and said shaft through which the soldering attachment is normally operated by said main motor in synchronism with the lock seamer, an auxiliary motor, and a driving connection between said auxiliary motor and said shaft, each of said driving connections including an overdrive clutch through which the soldering attachment is selectively driven by the faster running of the two motors without interference by the other motor.

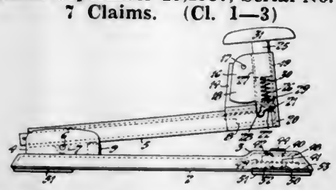
2,167,331

METHOD AND MEANS FOR ADJUSTING THE PARTS OF FASTENER-APPLYING IMPLEMENTS

John F. Cavanagh, Providence, R. I., assignor to Boston Wire Stitcher Company, Warwick, R. I., a corporation of Maine

Application September 16,1937, Serial No. 164,179

7 Claims. (Cl. 1—3)



1. The method of relatively adjusting and securing the clinching means and fastener-applying means of a fastener-inserting implement to aline the clinching means with the throat of the fastener-applying means through which the fasteners are driven which comprises providing means in the throat adapted to project therefrom, relatively moving the fastener-applying means and clinching means to aline the latter with the projecting end of the means in the throat, and then securing the clinching means and fastener-applying means in adjusted relationship.

2,167,332

RATE OF LOAD CONTROL APPARATUS FOR MATERIALS TESTING

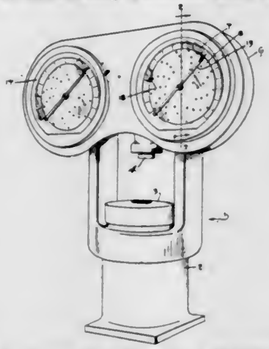
Albert H. Emery, Stamford, Conn., assignor to Baldwin-Southwark Corporation, a corporation of Delaware

Application August 16, 1935, Serial No. 36,530

2 Claims. (Cl. 235—103.5)

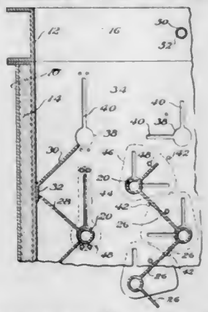
1. A rate of loading device comprising, in com-

bination, a rotatable disc having a plurality of spaced elements located thereon at different radial and circumferential positions with respect to the axis of rotation, means for continuously rotating said disc at a predetermined rate of speed, a load indicating element rotatable about the axis of said disc and in superimposed relation thereto so that direct comparison may be made between said indicating element and any one of



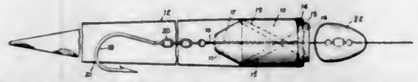
said spaced elements when in alignment therewith, said indicating element and said disc being relatively immovable when rotated in synchronism with each other, and means for rotating said load indicating element in continuous synchronism with any one of said spaced elements whereby the rate of loading is at said predetermined speed regardless of which spaced element is in alignment with the load indicating element.

2,167,333
HEAT EXCHANGER
Benjamin S. Foss, Brookline, Mass., assignor to B. F. Sturtevant Company, Boston, Mass., a corporation of Massachusetts
Application July 20, 1937, Serial No. 154,604
11 Claims. (Cl. 257—230)



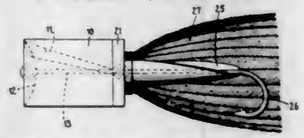
3. A heat exchanger for extracting heat from gases comprising a casing forming a passage through which the gases flow, a plurality of fluid-conducting tubes arranged in rows transversely of the passage in the casing, longitudinal fins on the tubes, said tubes and fins being arranged to form sinuous passages in the direction of gas flow, means for supporting the tubes adjacent the ends thereof comprising members arranged transversely of the tubes and extending across the casing, said members being provided with apertures through which the tubes and attached fins may be passed, the fin-receiving portion of each aperture being oriented at an angle to the position of the fins when the tubes are in operative position, and means for closing said portion of the apertures.

2,167,334
ARTIFICIAL BAIT
James H. Hayes, New York, N. Y.
Application November 16, 1936, Serial No. 110,980
9 Claims. (Cl. 43—42)



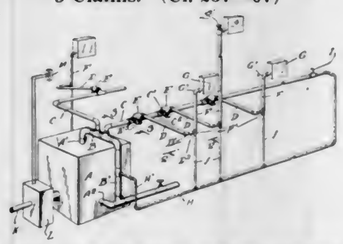
6. An artificial lure comprising a resilient open-ended envelope, an element positioned within said open end, said element having an opening therein arranged non-parallel to its axis and extending into the interior of the sac to admit water into the envelope, said envelope having a single opening near its closed end to permit egress of the water and means to draw said element through the water whereby the envelope will become inflated and rotate in a tortuous path.

2,167,335
ARTIFICIAL LURE
James H. Hayes, New York, N. Y.
Application April 30, 1937, Serial No. 139,862
8 Claims. (Cl. 43—47)



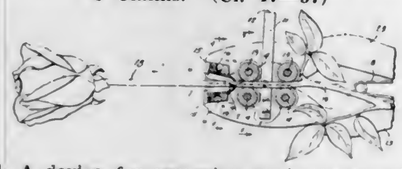
1. An artificial fish lure comprising an element, means for drawing the same through the water, said element having an opening therein to receive and discharge water as the element is drawn through the water, and a blade secured to said element adjacent to the discharge end of said opening and intersecting the axis of said opening, whereby as the element and blade are drawn through the water the opening will discharge water against the blade to cause deflection of the element and blade.

2,167,336
ONE PIPE STEAM HEATING SYSTEM
Henry F. McKeown, Cedar Grove, N. J., assignor of one-half to Leonard C. Smyth, Glen Ridge, N. J.
Application April 14, 1938, Serial No. 201,913
3 Claims. (Cl. 237—67)



3. A one pipe heating system comprising a generally horizontal steam supply main, adapted to receive steam at one end and to drain water of condensation at its other end, a plurality of radiator supply connections, each comprising a riser adapted to supply steam to and receive condensate from a radiator located at a level above said main, condensate return piping connected to said main at the said other end of the latter, and including a portion connected to and extending downwardly from the lower end of each riser, and a separate pipe connection between the lower end of each riser and said main, each of said pipe connections including a throttling device and being adapted to drain condensate forming in said connection at the inlet and outlet sides of said device respectively toward said main and toward the riser to which said connection is connected.

2,167,337
THORN-REMOVING DEVICE
Maurice De Meester, Detroit, Mich.
Application April 2, 1937, Serial No. 134,591
6 Claims. (Cl. 47—57)



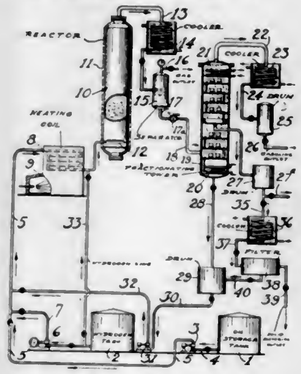
1. A device for removing projections such as thorns and the like from a stem comprising a pair of arms movable toward and away from each other, a knife carried by each arm, and cooperating guides on each of said arms ahead of said knives for guiding the stem preparatory to passing through said knives, the cutting edge of each knife being aligned with the guide on said arm, the guide and the knife on the one arm being opposed to the guide and the knife on the other arm whereby a stem can be positioned between the opposed guides and knives and the said arms moved towards each other to bring the guides into contact with the stems whereupon the stem can be drawn through the guides and knives to clean the same by removing thorns, foliage and the like.

2,167,338
WELDING AND SETTING WELL CASING
Uriel C. Murcell, Los Angeles, Calif., assignor to U. C. Murcell, Inc., Los Angeles, Calif., a corporation of California
Application July 26, 1937, Serial No. 155,687
12 Claims. (Cl. 166—4)



1. In the setting of casing in wells the process of aligning sections of casing vertically over the well hole, lowering a mandrel through the upper section until an expansible chill member carried thereby extends partially beyond the lower end of said section, clamping the mandrel in position relative to said upper section, lowering said section into abutting relation to the section of casing in the well and with the chill member extending into the upper end of said last named section, expanding said chill member into circumferential contact with the end portions of said sections, welding said abutting end edges together, releasing said chill member and the mandrel clamp, and removing the mandrel from said casing.

2,167,339
HYDROGENATION OF CYCLIC HYDROCARBONS
William J. Sweeney, Westfield, N. J., assignor to Standard I. G. Co.
Application April 28, 1937, Serial No. 139,395
2 Claims. (Cl. 196—53)

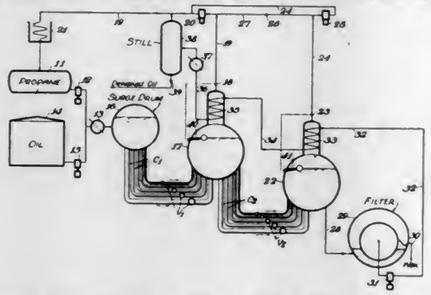


2. In a process for the destructive hydrogenation of light refractory gas oils of naphthenic character wherein said gas oil is first admixed with hydrogen in a ratio of the order of 1000 to 10,000 cubic feet of hydrogen per barrel of oil, the mixture passed through a reaction zone containing a hydrogenating catalyst maintained at a temperature between about 950 and 1050° F. and under a pressure of the order of 200 atmospheres and the resulting products fractionated into a light distillate product of the desired boiling range, an intermediate liquid product boiling between about 415 and 435° F. and a higher boiling liquid product; the improvement which comprises recycling said higher boiling product to the reaction zone for further hydrogenating treatment, separating from said intermediate fraction a product solid under normal conditions and consisting mainly of naphthalene and returning the remainder of said intermediate fraction to the reaction zone.

2,167,340
CONTINUOUS PROPANE DEWAXING
Ernest W. Thiele, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application December 30, 1936, Serial No. 118,383
2 Claims. (Cl. 62—114)

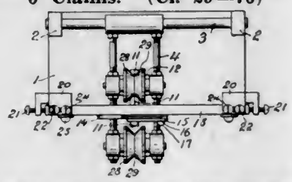
1. Apparatus for dewaxing a wax-bearing mineral oil by the use of a liquefied normally gaseous hydrocarbon diluent, comprising means for dissolving said oil in said diluent, a plurality of friction-drop chilling stages to precipitate wax from said oil and means for removing the precipitated wax from the oil, each of said friction-drop chilling stages comprising a plurality of independent, long, restricted conduits adapted to accomplish friction-drop chilling and arranged in parallel with each other, said parallel conduits being of substantially different capacities, the larger of said conduits being relatively long and

the smaller of said conduits being relatively short, shut-off valves to permit the selective use of any one or more of said parallel conduits, a



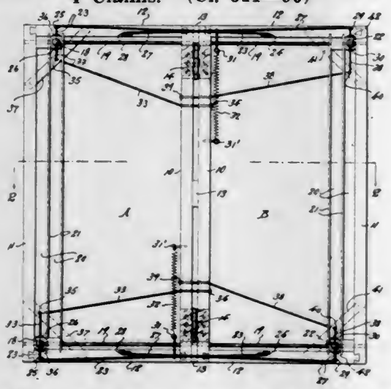
vessel into which said conduits discharge, and means for removing diluent vapors from said vessel.

2,167,341
KEY DUPLICATOR
David B. Willock, Kansas City, Mo.
Application April 1, 1937, Serial No. 134,241
6 Claims. (Cl. 29—76)



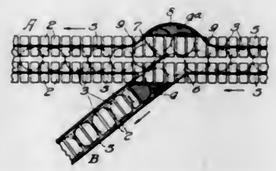
1. In a key duplicator, a base, means thereon for holding a pattern and a key blank one above the other with their blades parallel, and disposed horizontally, a carriage horizontally reciprocative on said base and hinged thereto on a horizontal axis, a guide on said carriage disposed so as to be adapted to rest on the blade of said pattern, and means on said carriage for supporting and guiding a linearly reciprocative cutting instrument across and for limiting its downward movement into the blade of said blank.

2,167,342
FOLDING TABLE
William H. York, Newark, N. J.
Application April 9, 1938, Serial No. 201,023
4 Claims. (Cl. 311—90)



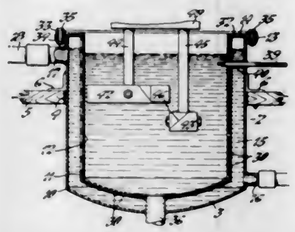
1. A folding table, comprising a pair of hingedly connected top sections, leg members pivotally mounted adjacent to the outer corner portions of each top section so as to fold parallel to each other and to the side of the top section on which they are mounted opposite the hinged side thereof, guided leg outswinging pull cables attached to each leg member to extend to anchored connection with the top section opposite to that which carries the leg members controlled thereby, and guided leg inswinging pull cables attached to each leg member to likewise extend to anchored connection with the top section opposite to that which carries the leg members controlled thereby.

2,167,343
CONTAINER CONVEYER AND DISTRIBUTOR
Christian N. Bergmann, Pittsburgh, Pa., assignor of two-sixths to Charles M. Clarke, Sewickley, Pa.
Application March 31, 1938, Serial No. 199,139
13 Claims. (Cl. 198—81)



1. In combination, a main conveyer for unit transfer support, a lateral conveyer having an entrance throat communicating therewith on the same horizontal plane, and interconnecting flanking guides for directing and maintaining units in transfer along and upon the main and lateral conveyers respectively, one of the guides of the main conveyer being rounded outwardly beyond it opposite the entrance throat of the lateral conveyer, and a fixed deflecting prong extending across the normal middle transfer path of the main conveyer towards the rounded guide.

2,167,344
MIXING TANK AND THE LIKE
John William Corr, East Greenwich, R. I.
Application March 23, 1938, Serial No. 197,673
5 Claims. (Cl. 257—212)



5. A jacketed mixing tank having an imperforate outer shell, a wire-mesh basket suspended in the outer shell with its bottom and side walls in spaced relation to the walls thereof to form a chamber therebetween, and a lining wholly supported by the bottom and sides of the wire-mesh basket, said lining being adapted to be directly contacted over its entire area by a conditioning medium in the chamber admitted through the interstices of the wire-mesh basket.

2,167,345
DIESEL FUEL AND METHOD OF IMPROVING SAME
George S. Crandall, Woodbury, Robert C. Moran, Wenonah, and Henry G. Berger, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application December 9, 1936, Serial No. 114,942
7 Claims. (Cl. 44—9)

1. An improved Diesel fuel comprising a mineral hydrocarbon fuel, in which has been dissolved a small proportion of a mercaptan, the mercaptan-containing fuel having then been sweetened in the presence of sulphur, resulting in a decrease in the ignition delay period of the fuel.

2,167,346
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser and Charles M. Blair, Jr., Webster Groves, Mo., assignors, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware
No Drawing. Application May 9, 1938, Serial No. 206,900
7 Claims. (Cl. 196—4)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a composition of matter derived by reaction, under substantially anhydrous conditions, between a blown oil and a non-aryl tertiary hydroxy amine within the molal ratio of 1:1 and 1:3, at a temperature above the boiling point of water and below the point of decomposition; said reaction being conducted in a manner to yield a substantial quantity of basic material in which the blown oil fatty acid radical is attached to the basic nitrogen atom through a carbon atom chain; with the added proviso that in said basic material the ratio of said acid radical to the amino nitrogen atom shall be at least 1:1 and not more than 3:1; and said basic material being further characterized by absence of amide and polyamino radicals.

2,167,347
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser and Charles M. Blair, Jr., Webster Groves, Mo., assignors, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware
No Drawing. Application May 9, 1938, Serial No. 206,902
7 Claims. (Cl. 196—4)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a composition of matter derived by reaction, under substantially anhydrous conditions, between a chemical compound containing an acyl radical derived from a fatty acid and a non-aryl tertiary hydroxy amine within the molal ratio of 1:1 and 1:3, at a temperature above the boiling point of water and below the point of decomposition; said reaction being conducted in a manner to yield a substantial quantity of basic material in which the fatty acid radical is attached to the basic nitrogen atom through a carbon atom chain; with the added proviso that in said basic material the ratio of said acid radical to the amino nitrogen atom shall be at least 1:1 and not more than 3:1; and said basic material being further characterized by absence of amide and polyamino radicals.

2,167,348
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser and Charles M. Blair, Jr., Webster Groves, Mo., assignors, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware
No Drawing. Application May 9, 1938, Serial No. 206,903
7 Claims. (Cl. 196—4)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a composition of matter derived by reaction, under substantially anhydrous conditions, between the ester of a non-fatty monobasic carboxy detergent-forming acid and a non-aryl tertiary hydroxy amine within the molal ratio of 1:1 and 1:3, at a temperature above the boiling point of water and below the point of decomposition; said reaction being conducted in a manner to yield a substantial quantity of a basic material in which the non-fatty monobasic carboxy detergent-forming acid radical is attached to the basic nitrogen atom through a carbon atom chain with the added proviso that in said basic material the ratio of said acid radical to the amino nitrogen atom shall be at least 1:1 and not more than 3:1; and said basic material being further characterized by absence of amide and polyamino radicals.

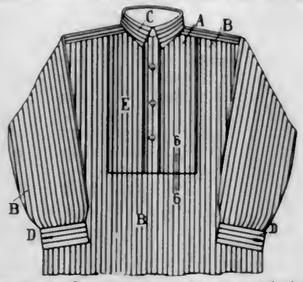
2,167,349
PROCESS FOR BREAKING PETROLEUM EMULSIONS
Melvin De Groote, University City, and Bernhard Keiser and Charles M. Blair, Jr., Webster Groves, Mo., assignors, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware
No Drawing. Application May 9, 1938, Serial No. 206,904
7 Claims. (Cl. 196—4)

1. A process for breaking petroleum emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a composition of matter derived by reaction, under substantially anhydrous conditions, between the ester of a monobasic carboxy detergent-forming acid and a non-aryl hydroxy amine having at least one amino hydrogen atom, within the molal ratio of 1:1 and 1:3, at a temperature above the boiling point of water and below the point of decomposition; and in such a manner as to produce substantial esterification; said reaction being conducted in a manner to yield a substantial quantity of basic material in which the monobasic carboxy detergent-forming radical is attached to the basic nitrogen atom through a carbon atom chain; with the added proviso that in said basic material the ratio of said acid radical to the amino nitrogen atom shall be at least 1:1 and not more than 2:1; and said basic material being further characterized by absence of amide and polyamino radicals.

2,167,350
WEARING APPAREL
Frank Eaton, Manchester, England
Original application May 22, 1936, Serial No. 81,139. Divided and this application July 23, 1937, Serial No. 155,166. In Great Britain June 7, 1935
1 Claim. (Cl. 139—385.5)

A shirt formed from striped poplin cloth in combination with a collar of identical appearance comprising groups of warp yarns which come to the surface on alternate picks of the shuttle and which appear alternately in each face of the fab-

ric, further groups of warp yarns contrasting with the first-mentioned groups of warp yarns and alternating therewith, said further groups of warp yarns coming to the surface on alternate picks of the shuttle and appearing alternately in each face of the fabric, two layers of weft yarns with which each warp yarn of all the groups are



interwoven, and warp yarns woven into the fabric and extending in substantially straight lines intermediate the two layers of weft yarns whereby a striped multiply fabric is obtained with the longitudinal stripes thereon identical in width and spacing with those on the single ply plain weave striped poplin shirt.

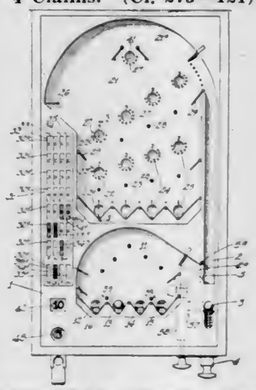
2,167,351
PIPERIDINE COMPOUNDS AND A PROCESS OF PREPARING THEM
Otto Eisleb, Hofheim-in-Taunus, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application August 4, 1938, Serial No. 223,014. In Germany August 7, 1937
8 Claims. (Cl. 260—294)

1. The process which comprises reacting a di-(beta-halogenalkyl)-amine of the formula:

$$\text{Hlg.CHR.CHR.N.CHR.CHR.Hlg}$$
$$\qquad\qquad\qquad\qquad\quad |$$
$$\qquad\qquad\qquad\qquad\quad \text{R}$$

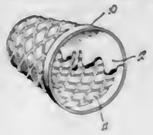
wherein R stands for a member of the group consisting of hydrogen and a monovalent hydrocarbon radical, with an arylacetonitrile in the presence of an agent capable of splitting off hydrogen halide.

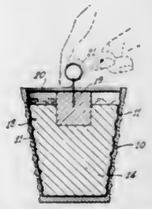
2,167,352
TABLE MARBLE GAME
Fritz W. Falck, Los Angeles, Calif.
Application September 26, 1936, Serial No. 102,648
4 Claims. (Cl. 273—121)



4. In a game of the class described, a field of play having a plurality of series of goals, a plurality of series of registering devices, each series cooperating with a series of goals and so connected to the goals as to operate the registering devices consecutively upon the making of goals in said series, means for feeding and directing game members to said field of play so they may make said goals, and means in operative association with the latter means and said registering devices for rendering said latter means inoperative when all of the registering devices of one series thereof are operated.

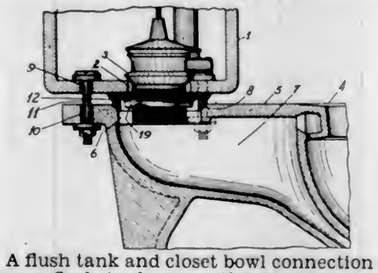
2,167,353
CONFECTION
Nello Frediani, Lake Geneva, Wis.
Application August 18, 1938, Serial No. 225,554
3 Claims. (Cl. 99—137)





1. A confection including a cup of edible panified material having its interior coated with an edible lining consisting of a vegetable fat and finely divided sugar, said cup being filled with ice cream.

2,167,354
FLUSH TANK AND CLOSET BOWL CONNECTION
Gordon P. Gavin, Kohler, Wis.
Application November 24, 1937, Serial No. 176,215
3 Claims. (Cl. 4—13)



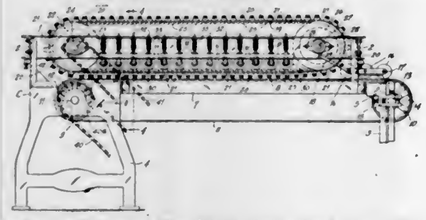
1. A flush tank and closet bowl connection comprising a flush tank; an outlet aperture therein; a closet bowl having a rearwardly extending shelf; an inlet aperture in said shelf communicating with the interior of said bowl; a beveled upper portion on said inlet aperture; a flush ball seat adapted to fit within the outlet aperture; means for attaching said flush ball seat to the tank and a gasket of resilient material comprising a flat base adapted to abut said flush tank, a circular aperture substantially perpendicular to said base, a circular recess of greater diameter and lesser depth than said aperture oppositely disposed to said base whereby to form an inwardly extending flange adapted to be clamped to said flush tank by said attaching means and a downwardly extending flange substantially perpendicular to said inwardly extending flange, said downwardly extending flange having a beveled exterior surface concentric to said circular recess and adapted to abut said inlet aperture.

2,167,355
ELECTRIC GENERATOR ROTOR
Frazer W. Gay, Metuchen, N. J.
Application September 7, 1938, Serial No. 228,750
4 Claims. (Cl. 171—252)



1. In a high speed electric machine rotor having a slot to hold windings, said slot being formed to provide a narrow portion at its bottom and a wide portion at its top, slot bridges affixed across the top of said narrow portion, and slot bridges affixed across the top of said wide portion.

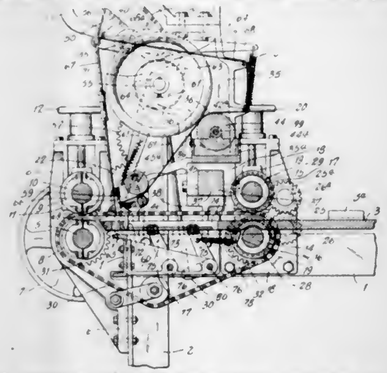
2,167,356
TAPE SMOOTHING MACHINE
Walter C. George, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application August 1, 1938, Serial No. 222,350
12 Claims. (Cl. 93—56)



1. A machine of the kind described comprising an endless conveyer, an endless belt located above and disposed longitudinally of said conveyer, brushes mounted on the outer surface of said belt in position to engage an article on said endless conveyer, means for driving said endless coveyer and belt in the same direction but at different speeds, and means for varying the speed relationship between said endless conveyer and belt.

2,167,357
TAPING MACHINE
Walter C. George, St. Louis, Mo., assignor to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application August 1, 1938, Serial No. 222,406
10 Claims. (Cl. 93—56)

1. In a machine of the kind described, an intermittently operated tape feeding mechanism, a tape moistening roll in continuous contact with said tape in both operative and inoperative positions of said mechanism, a power driven shaft, and a clutch connection between said shaft and said roll adapted to permit rotation of said roll relative to said shaft by engagement of the moving tape with said roll and to positively rotate said roll in the stationary position of the roll engaging portion of said tape to thereby prevent

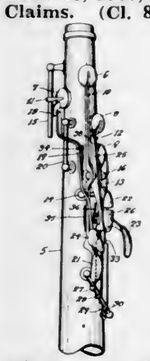


said portion of said tape from sticking to said roll in such stationary position.

2,167,358
METHOD OF RECOVERING CONDENSING AGENTS
Anthony H. Gleason, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 21, 1936, Serial No. 112,073
7 Claims. (Cl. 23—205)

1. The process of recovering a boron fluoride catalyst from reaction liquids containing same, either dissolved therein or held therein in the form of a chemical complex of the reaction product, which comprises contacting said reaction liquid with a trivalent nitrogen compound capable of reacting with said catalyst to form a chemical complex which is insoluble in the reaction liquid and precipitates out therefrom, and separating the precipitated complex from the reaction liquid.

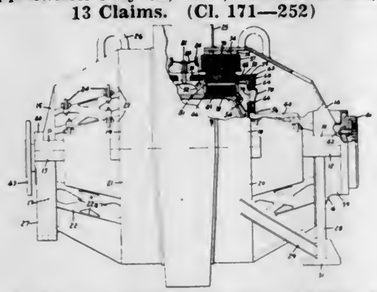
2,167,359
MUSICAL INSTRUMENT
Enrico Govoni, West Hartford, Conn.
Application June 18, 1937, Serial No. 149,011
8 Claims. (Cl. 84—385)



1. In a saxophone comprising a plurality of valves, a pad normally closing each of said valves, a lever whereby each of said pads may be operated to open one of said valves, a finger key for each of said levers, intermediate levers whereby, upon the operation of a single one of said finger keys, a certain group of said valves may be opened to produce a note, certain of said valves being operable independent of the others and one of said valves being operable through

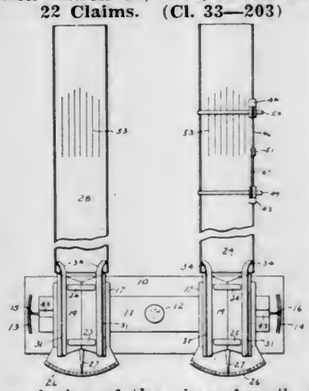
the operation of two of said finger keys, one of which will operate the said valve in combination with certain groups of the other valves through the operation of said intermediate levers and the other of which will operate said valve independently of the other valves for producing a C. to D trill note.

2,167,360
DYNAMO-ELECTRIC MACHINE
Max R. Hanna, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application July 31, 1937, Serial No. 156,724
13 Claims. (Cl. 171—252)



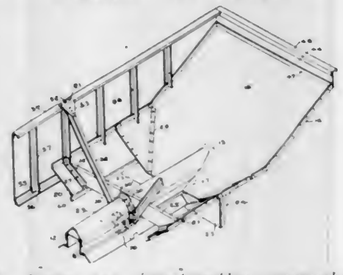
5. A dynamo-electric machine having a stationary member and a rotatable member provided with a laminated core, axially extending ventilating openings through said laminated core, a winding secured to said laminated core, a commutator associated with said rotatable member, means including a plurality of electrically conductive riser elements extending in opposite directions substantially circumferentially of said rotatable member for connecting said winding to said commutator, said riser elements being arranged in a plurality of circumferentially spaced apart groups to provide ventilating openings between adjacent circumferentially spaced apart groups communicating with said ventilating openings in said laminated core, each of said groups including riser elements extending in both of said directions, and means for securing said risers in said arranged positions on said rotatable member.

2,167,361
WHEEL AND CHASSIS ALIGNMENT INDICATOR
Oswin Haucke, Brooklyn, N. Y.
Application March 31, 1934, Serial No. 718,369
22 Claims. (Cl. 33—203)



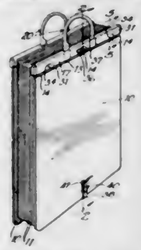
1. In a device of the class described, a base plate, a beam rotatably mounted on said base plate, a pair of rotatably-mounted cradles slidably mounted on said beam, means associated with said cradles for centering the wheels of a vehicle therein, means for indicating the amount and direction of rotation of the cradles caused by the insertion of said wheels, and means for simultaneously indicating the amount and direction of rotation of the said beam.

2,167,362
CAR CONSTRUCTION
David Hindahl, Chicago, Ill., assignor to Rodger Ballast Car Company, Chicago, Ill., a corporation of Maine
Application September 3, 1938, Serial No. 228,342
6 Claims. (Cl. 105—251)



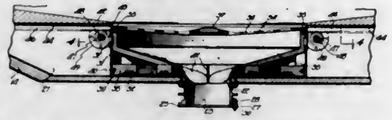
1. A dump car construction comprising in combination a center sill, end slope sheets supported on said center sill, side slope sheets extending downwardly and inwardly a substantial distance from the plane of the associated side walls of said car and connected between said end slope sheets and having notches along the upper edges thereof which are open exteriorly and are adapted to receive side wall side stakes by lateral movement of said side stakes thereinto, and side walls having upper and lower chords and inside side stakes and connected to said end and side slope sheets respectively, with the side stakes thereof disposed in said notches and with the lower chord thereof disposed a substantial distance below the upper edge of said side slope sheets.

2,167,363
SAMPLE CARRIER
Harry L. Hoenigsberger, Chicago, Ill.
Application October 1, 1938, Serial No. 232,738
2 Claims. (Cl. 129—1)



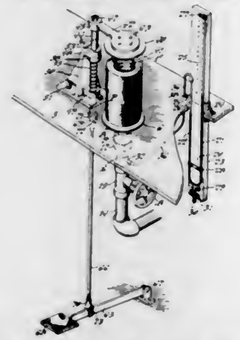
1. In a sample carrier, the combination of front and rear covers, a stiff supporting bar for the upper edge of each of the covers and having a hinge connection with the associated cover, binding posts adapted to suspend samples and mounted upon one of the supporting bars and extending through the other supporting bar, means for locking the last mentioned supporting bar, means for locking the last mentioned supporting bar to the binding posts, a U-shaped handle section for each of the supporting bars, and a connection for each end of each handle section in the form of a loop encircling the supporting bar and terminating in outwardly extending tongues having the ends of the handle section secured thereto, the handle sections being adapted to flex inwardly to afford a medial support for the carrier.

2,167,364
RAILWAY HOPPER CAR
Albert A. Johnson, Kew Gardens, N. Y.
Application April 12, 1937, Serial No. 136,257
4 Claims. (Cl. 105—247)



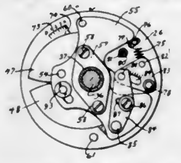
1. A railway car for the shipment of individual units in loose condition comprising a car body having a discharge opening in the bottom thereof, flooring inclined upwardly from said discharge opening, a rotatable grate mounted in said discharge opening and having grate openings therein of a size to admit of the free passage of individual units therethrough, means operable for imparting rotation to said grate, and slide closure means operable exteriorly of said car body for closing said discharge opening to shut off the flow of units to said grate.

2,167,365
METHOD OF PRETESTING AND DYEING TEXTILE PACKAGES
Royal Little, Providence, and Freeman W. Fraim, Cranston, R. I., assignors to Atlantic Rayon Corporation, a corporation of Rhode Island
Original application September 7, 1935, Serial No. 39,586. Divided and this application July 21, 1938, Serial No. 220,450
3 Claims. (Cl. 8—155)



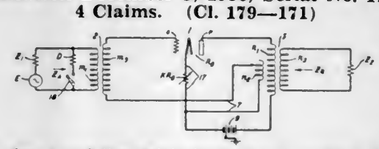
1. The method of uniformly treating a plurality of hollow packages of textile material with a dye-liquor which comprises passing a confined stream of testing fluid through each package, measuring the pressure of said testing fluid caused by the resistance of the package to the flow thereof, grouping those packages having substantially the same permeability as measured by the pressure of said testing fluid, and passing a dye-liquor through the selected group of packages under pressure to cause the material of all the packages to be uniformly treated.

2,167,366
CENTRIFUGAL ADVANCE MECHANISM
Marion Mallory, Detroit, Mich., assignor to The Mallory Research Company, Detroit, Mich., a corporation of Michigan
Original application January 4, 1937, Serial No. 119,006. Divided and this application March 31, 1937, Serial No. 134,180
11 Claims. (Cl. 200—31)



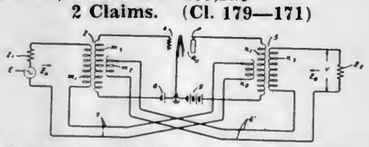
2. In an ignition timer, centrifugal timing mechanism comprising two coaxial rotatable plates, two centrifugal weights, one mounted on each plate, said weights being co-engageable to advance one plate with respect to the other as the weights are moved outwardly, and an arm mounted on one plate and adjustable into the path of the weight pivot on the other plate to adjustably limit the maximum centrifugal advance of one plate with respect to the other.

2,167,367
ELECTRIC WAVE AMPLIFYING SYSTEM
Stanley T. Meyers, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 5, 1936, Serial No. 114,400
4 Claims. (Cl. 179—171)



2. An amplifier with input and output transformers each having a primary winding and a secondary winding, a feedback impedance in serial relation to said secondary winding of said input transformer and also in serial relation to said primary winding of said output transformer, and a feedback coil in serial relation to said secondary winding of said input transformer and inductively related to said windings of said output transformer.

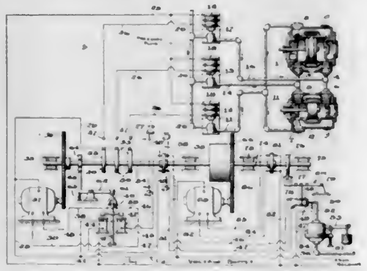
2,167,368
ELECTRIC WAVE AMPLIFYING SYSTEM
Stanley T. Meyers, East Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Original application December 5, 1936, Serial No. 114,400. Divided and this application October 15, 1937, Serial No. 169,116
2 Claims. (Cl. 179—171)



1. A wave amplifying device having input and output circuits, a wave source for association with said input circuit, an input transformer having a primary winding connected to said source and a secondary winding connected to said input circuit, a load circuit for said device, an output transformer having a primary winding connected to said

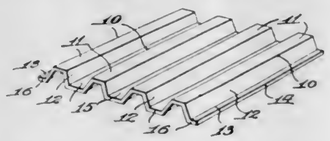
output circuit and a secondary winding connected to said load circuit, means for producing negative feedback in said device through the first-mentioned primary and secondary windings, said means comprising an impedance in serial relation to said first-mentioned primary winding with respect to said wave source and effectively in shunt relation to said load circuit with respect to said output circuit, and means for producing negative feedback in said device of voltage induced in said second-mentioned secondary winding by current from said output circuit flowing in said second-mentioned primary winding, said latter means comprising an impedance in serial relation to said load circuit with respect to said second-mentioned secondary winding and effectively in shunt relation to said input circuit with respect to said source.

2,167,369
VARIABLE CAPACITY COMPRESSOR
Edward M. Paullin, Jr., Buffalo, N. Y., assignor to Worthington Pump and Machinery Corporation, New York, N. Y., a corporation of Virginia
Application August 22, 1934, Serial No. 740,869
13 Claims. (Cl. 230—21)



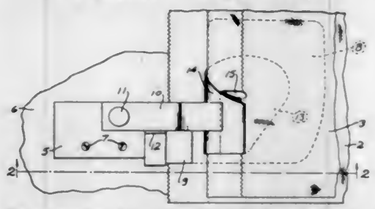
2. The combination with a variable capacity air or gas compressor, of control valves on said compressor for controlling the loading and unloading of the compressor, electrically operated means for controlling operation of said control valves, means responsive to deviation from a predetermined pressure for controlling operation of said electrically operated means, means for varying the setting of said responsive means, and means for restoring the original setting of said responsive means.

2,167,370
STRUCTURAL UNIT
Albert de Pfyffer, Los Angeles, Calif.
Application June 15, 1938, Serial No. 213,793
6 Claims. (Cl. 108—1)



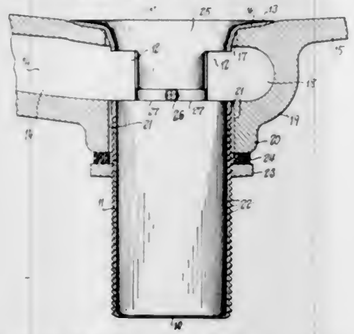
1. A structural unit formed from a single piece of sheet metal having portions bent to form a series of spaced parallel ribs, having flat upper sections and flat sections connecting the lower portions of the sides of said ribs, said upper flat sections having greater length than said lower flat sections and continuous marginal flanges formed on the ends of the unit.

2,167,371
SEAM FOR FABRICS
Mortimer T. Present, Indianapolis, Ind., assignor to Janalene, Inc., Indianapolis, Ind., a corporation of Indiana
Application September 6, 1938, Serial No. 228,487
2 Claims. (Cl. 112—262)



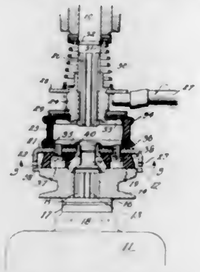
1. In a seam for securing together two pieces of material, one material piece having an edge portion folded in single thickness over onto the piece, the second material piece also having an edge portion folded in single thickness back over onto that second piece, the two pieces being laid one slightly over the other with the first piece folded-over edge portion on its top side and the second piece folded-over edge portion on its top side to have the under face of the first piece resting on the folded over edge portion of the second piece, and a single row of stitching through the first piece, its upper overturned folded edge portion and the overturned edge portion only of the second piece, said two pieces being overlapped with their fold lines only a sufficient distance one from the other to receive said row of stitching therebetween.

2,167,372
DRAIN FITTING AND METHOD OF PRODUCTION THEREOF
Adolph C. Recker, Watertown, Conn., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn., a corporation
Application August 27, 1938, Serial No. 227,156
5 Claims. (Cl. 29—157)



1. A drain-fitting, comprising: a tubular body provided with an axial through-way for fluid and having oppositely-arranged overflow-openings in the circumferential wall of the said tubular body, the upper marginal portion of each of the said oppositely-arranged openings being formed by a partially-severed circumferential portion of the tubular body wall; the partially-severed portions each having a horizontal-extension and a vertical-extension and provided with a bottom wall and a top wall which merge with the tubular body wall at opposite ends, the said partially-severed portions of the tubular wall being each displaced inwardly into juxtaposition each with respect to the other to form complementary reentrant strainer-members in which the vertical-extension of each of the said partially-severed portions is presented in said through-way longitudinally thereof and its said top wall presents a surface of uniform size and of the width of the wall of the tubular body to fluid flowing through the said through-way.

2,167,373
CLUTCH MECHANISM
William Rocke, South Bend, Ind.
Application April 5, 1937, Serial No. 135,000
6 Claims. (Cl. 192—53)



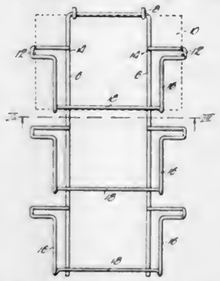
1. In a washing machine, the combination with an impeller shaft, a driving motor having a drive shaft, said shafts being separated from each other, means for establishing positive driving connection between said impeller shaft and said drive shaft comprising a spring pressed jaw clutch driven member and a jaw clutch driver, a flat seating surface on the leading face of said clutch driver, and means associated with the leading face of said driven member comprising a flexible outwardly tapering frusto-conical body having a leading surface extending in advance of the forwardmost portion of said driven member.

2,167,374
SWITCH UNIT
Charles Hilaire Henri Rodanet, Neuilly-sur-Seine, France, assignor to Société Anonyme: Etablissements Ed. Jaeger, Levallois-Perret (Seine), France
Application July 30, 1936, Serial No. 93,421
In France September 25, 1935
6 Claims. (Cl. 200—5)



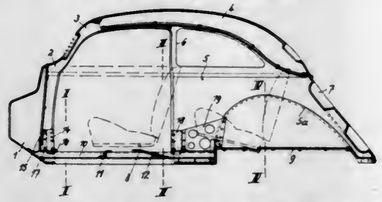
1. In combination, for constituting a switch unit comprising a main casing made of insulating material; a first rotary three-position switch comprising, a first conducting member rotatively mounted in said casing and for occupying three positions and devised for constituting first, second and third movable contact-pieces, located at equal distances from the axis of rotation of said first conducting member; means actuated by hand, for moving said first member and causing it to assume any one of the three positions; a fourth fixed conducting contact-piece, a fifth fixed insulating contact-piece, a sixth fixed conducting contact-piece, a seventh fixed insulating contact-piece, eighth, ninth, tenth and eleventh fixed conducting contact-pieces, said contact-pieces from the fifth to the eleventh being arranged and distributed in the order indicated on said casing, at the same distance from the axis of rotation of said first conducting member, as the three contact-pieces carried by the latter, said first rotary switch allowing of controlling third and fourth circuits; a second rotary two-positions switch comprising, a second conducting member rotatively mounted in said casing for occupying two positions and devised for constituting twelfth and thirteenth movable contact-pieces located at different distances from the axis of rotation of said second conducting member; means actuated by hand for moving said second member and causing it to assume any one of the two positions; fourteenth, fifteenth, sixteenth and seventeenth fixed conducting contact-pieces, said contact-pieces from the fourteenth to the seventeenth being arranged and distributed on said casing so that the fourteenth and the seventeenth contact-pieces are located at equal distances from the axis of rotation of said second conducting member as the thirteenth contact-piece of the latter, and that the fifteenth and sixteenth contact-pieces are located at equal distances from the axis of rotation of said second conducting member as the twelfth contact-piece of the latter, said second rotary switch allowing of controlling said third and fourth circuits after they have been prepared by said first switch.

2,167,375
DISPLAY FIXTURE
Harry J. Rubenstein, Kansas City, Mo.
Application November 14, 1938, Serial No. 240,233
3 Claims. (Cl. 211—50)



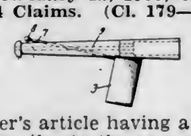
1. A wire display fixture of the character described comprising a pair of substantially parallel, spaced apart standards forming a supporting body; and a plurality of card-holding units carried by the body, each of said units having a downwardly and inwardly inclined stretch in spaced relation to each of the standards and bearing against the face of the outermost card in that unit, whereby the said card may be withdrawn from a certain unit through a plane to one side of the downwardly and inwardly inclined stretches of the unit next above, and a U-shaped element joining the said stretches, the legs of said element serving as supports for the cards contained in the unit.

2,167,376
VEHICLE BODY
Reinhold Erhard Conrad Schulz, Berlin-Spandau, Germany, assignor to Auto Union Aktiengesellschaft, Chemnitz, Germany
Application April 10, 1937, Serial No. 136,213
In Germany April 11, 1936
1 Claim. (Cl. 296—31)



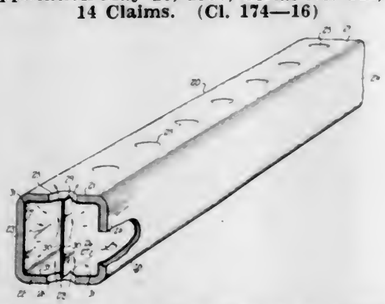
A vehicle body, more particularly for an automobile, comprising in combination a floor made of metal and other parts pressed from laminated paper impregnated with artificial resin with reinforcements at the points of connection with the floor, formed by uniting strips of the same material with the parts during the pressing operation.

2,167,377
ACOUSTICAL DEVICE
Edmund H. Schwencke, New York, N. Y.
Application January 12, 1938, Serial No. 184,551
4 Claims. (Cl. 179—107)



1. A smoker's article having a stem adapted to be gripped by the teeth, an acoustical vibrator unit mounted on said article, and a conducting rod operatively connected to said vibrator unit and extending through said stem, said rod emerging therefrom to terminate outside of said stem at a point closely adjacent the position where said stem is normally gripped by the teeth.

2,167,378
VENTILATED BUS BAR
Richard W. Shoemaker and Harold C. Daniels, Woodbury, Conn., assignors to Chase Brass & Copper Co. Incorporated, Waterbury, Conn., a corporation of Connecticut
Application May 10, 1937, Serial No. 141,647
14 Claims. (Cl. 174—16)



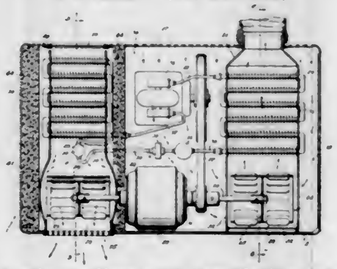
1. A bus-bar structure having a ventilating passage therethrough and provided with an inner radiant-heat-emitting surface and an inner radiant-heat-absorbing surface spaced from each other and the latter surface having greater heat-absorbing properties than the former and being positioned in the bus-bar structure so as to be swept over by air currents passing through the ventilating passage therein to cause the said air currents to remove by convection the radiant heat absorbed by the said radiant-heat-absorbing surface from the said radiant-heat-emitting surface.

2,167,379
CATHODE RAY TUBE DEFLECTING DEVICE
William A. Tolson, Westmont, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application February 28, 1936, Serial No. 66,171
11 Claims. (Cl. 250—157)



3. In combination, a cathode ray tube, an electro-magnetic deflecting device for said cathode ray tube, said device comprising a pair of distributed windings which are diametrically opposed and which are curved to conform to a cylindrical surface, and a sleeve of magnetic material surrounding said windings.

2,167,380
AIR COOLING APPARATUS
Kenneth E. Whitlock, Detroit, Mich., assignor, by mesne assignments, to Refrigerated Air Conditioning Corporation, a proposed corporation of Michigan
Application April 8, 1937, Serial No. 135,767
2 Claims. (Cl. 62—129)



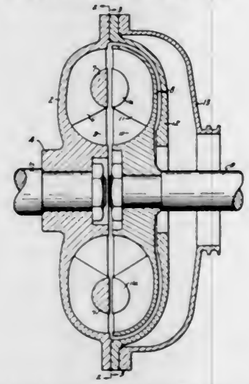
1. An air cooling and ventilating apparatus comprising in combination, a cabinet, a motor having a shaft and positioned substantially centrally of the cabinet, an air passageway adjacent one end of the cabinet having an inlet at the back of the cabinet and an outlet at the front, refrigerating mechanism including a compressor positioned substantially centrally of the cabinet, means operating the compressor from the shaft, an evaporator positioned in said passageway, a condenser positioned adjacent the other end of the cabinet, a second passageway around the condenser and positioned adjacent said opposite end of the cabinet and having an open end adjacent the front of the cabinet and extending out of the cabinet, said cabinet having air inlet means, some of which are located in the back wall so that air may pass therethrough over the condenser and motor and into the open end of the second mentioned passageway, the shaft of said motor projecting to opposite sides thereof, and

a double blower type fan on each end of the shaft, one for moving a current of air over the evaporator in the first mentioned passageway and for discharging said air into a room and the other for moving a current of air through the second mentioned passageway for discharge of the air outside said room.

2,167,381
RUBBER HYDROHALIDE-SALICYLIC ACID ESTER COMPOSITIONS
Herbert A. Winkelmann and Eugene W. Moffett, Chicago, Ill., assignors to Marbon Corporation, Chicago, Ill., a corporation of Delaware
No Drawing. Application November 9, 1936, Serial No. 110,013
8 Claims. (Cl. 106—23)

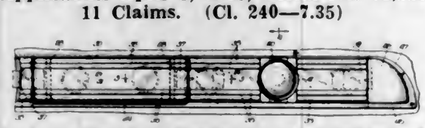
1. A composition of matter comprising a rubber hydrohalide and an ester of salicylic acid.

2,167,382
INTERRUPTED CORE RING COUPLING
Noah L. Alison, Detroit, Mich., assignor to American Blower Corporation, Detroit, Mich., a corporation of Delaware
Application June 9, 1938, Serial No. 212,759
In Great Britain October 28, 1936
6 Claims. (Cl. 60—54)



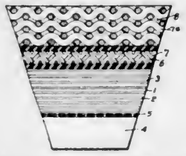
1. In combination, in a hydraulic coupling, of an impeller, a driving shaft therefor, a runner, a driven shaft therefor, a continuous core ring mounted within and upon said impeller, and an interrupted core ring mounted on said runner, said interrupted core ring including a multiplicity of circumferentially spaced segments, the spaces between said segments providing passageways for the flow of the working liquid.

2,167,383
LIGHTING FIXTURE
Albert L. Arenberg, Highland Park, Ill., assignor to Patent License Corporation, Chicago, Ill., a corporation of Illinois
Application April 8, 1936, Serial No. 73,220
11 Claims. (Cl. 240—7.35)



1. A combination lighting and ventilating fixture of continuous strip-like form, for application to the ceiling of a bus or other vehicle, comprising a long narrow metal casing provided with downwardly opening recesses of elongated rectangular form in the lower face thereof and ventilating air passages isolated from the recesses, glass panels of elongated rectangular form in the recesses, and electric bulbs in the casing behind the centers of the panels, said glass panels being of such character as to diffuse light throughout the major portion of their areas, and being provided directly opposite the bulbs with clear glass sections, and said casing being provided with ventilating openings in opposite sides thereof in communication with the air passages.

2,167,384
BELT
Abraham L. Freedlander, Dayton, Ohio, assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application December 22, 1937, Serial No. 181,192
5 Claims. (Cl. 74—237)



1. In combination, in a belt a compression section of rubber and transversely arranged parallel fine fibers of textile material to render the section laterally incompressible and longitudinally compressible, a flexible metal mesh band composed of transversely interlooped strands the loops of each strand being arranged in zig-zag form, said band being disposed along the neutral axis of said belt which band is longitudinally inextensible but freely flexible about an axis transverse thereto and adapted to permit the free flow of rubber vertically therethrough, and a tension section of reinforced rubber above said neutral axis section, said tension section having a plurality of rubber embedded fabric layers therein.

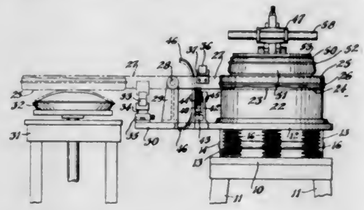
2,167,385
VULCANIZATION ACCELERATOR
Marion W. Harman, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application May 26, 1936, Serial No. 81,911
25 Claims. (Cl. 18—53)

1. The process of vulcanizing rubber which comprises heating rubber and sulfur in the presence of a thiazole accelerator and in addition thereto a reaction product of substantially one molecular proportion of a cyan-thio-form-aromatic amide and an equivalent amount of an amine having a dissociation constant at least equal to that of ethanol amine, said reaction being effected without the addition of heat.

2,167,386
CLAY-WORKING MACHINE
Frank M. Kinnard, Sebring, Ohio
Application September 10, 1937, Serial No. 163,203
11 Claims. (Cl. 25—22)

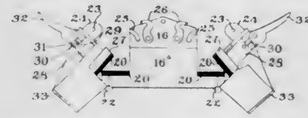
7. A clay working machine including a block, an arm pivoted adjacent to said block, a bat forming tool carried by said arm, a ring adapted to surround said block, a drum head carried by said ring and adapted to cover the top of the block, a lever upon which said ring is carried, a

mold spaced from said block, a bumper located between the block and mold in the path of said lever, and means operated by the raising of the



arm for swinging said lever against said bumper so as to transfer a bat of clay from the drum head to the mold and return the lever to normal position.

2,167,387
HAIR-CURLING DEVICE AND PROCESS THEREOF
Jacob A. Kols, Columbus, Ohio
Application September 15, 1938, Serial No. 230,068
6 Claims. (Cl. 132—36.1)



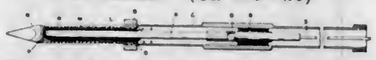
3. A protector of the class described, the body of which includes an elongated portion composed of two hair clamping parts of substantially rectangular form hinged together at one end, one of said parts provided with a guiding extension projecting longitudinally and laterally therefrom in substantially the form of an isosceles triangle based on said part.

2,167,388
BISCUIT MOLDING MACHINE
Otto Kremmling, Hamersleben, Germany
Application July 22, 1935, Serial No. 32,505
In Germany July 26, 1934
8 Claims. (Cl. 107—8)



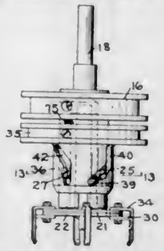
1. In a machine for molding biscuits and the like from plastic material, comprising a forcing roll and a molding drum having molds recessed into its peripheral surface, said roll and drum mounted on parallel axes with their adjacent surfaces spaced apart, and adapted for rotation toward each other to receive material and press it between them into the molds of said drum, in combination, a scraper of substantial thickness having its scraping end cut off to present two parallel scraping edges and positioned between said roll and drum, one of said edges lying in scraping relation to the face of the molding drum and the other lying adjacent the face of said forcing roll, whereby the end of said scraper opposes passage of plastic material and increases the pressure urging said material into said molds.

2,167,389
SOLDERING IRON
Frank Kuhn, Detroit, and Laurence H. Thomas, Birmingham, Mich., assignors to American Electrical Heater Company, Detroit, Mich., a corporation of Michigan
Application November 16, 1936, Serial No. 111,163
2 Claims. (Cl. 219—26)



1. In a relatively low wattage electrically heated soldering iron, the combination of a handle member provided with an electrical service connection, and inner and outer concentric sockets forming the terminals thereof, a replaceable unit detachably engaging said handle comprising a soldering point having an integral hollow shank, a resistor coil within said shank having one end grounded thereon, the convolutions of said coil being insulated from the shank, a conductor core member within said coil and insulated from the convolutions thereof being connected to the opposite terminal of the coil and projecting outward beyond said hollow shank, said core member and hollow shank forming the contacts for connection respectively with said inner and outer sockets of said electrical service connection upon engagement of said unit with said handle.

2,167,390
WRAP STRIPE KNITTING MACHINE
Robert H. Lawson, Pawtucket, and Isaac H. C. Green, Central Falls, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts
Application May 26, 1936, Serial No. 81,896
In Canada June 14, 1935
16 Claims. (Cl. 66—135)



1. In a knitting machine of the rotating needle cylinder type a plurality of independent needles in said cylinder, a wrapping head rotating with said needle cylinder and overlapping the same, said wrapping head having a plurality of yarn guiding means for placing wrap yarns within the hooks of certain preselected needles and wrapping said yarns around said needles, and means for shogging some of said yarn guiding means in one direction in combination with means for shogging adjacent yarn guiding means in the opposite direction.

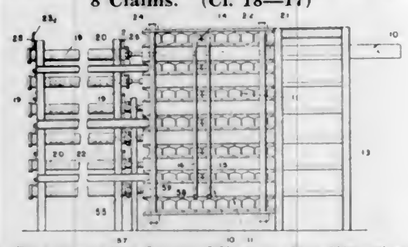
2,167,391
LOCK KEEPER
Rollo Marple, Jackson, Mich., assignor to Hancock Manufacturing Company, Jackson, Mich., a corporation of Michigan
Application December 20, 1937, Serial No. 180,676
4 Claims. (Cl. 292—340)

2. In a lock keeper, the combination of a main body portion having a gradually sloping face terminating in a bolt engaging surface, and a safety catch pivotally mounted on said body having a part overlying said face and having an outwardly



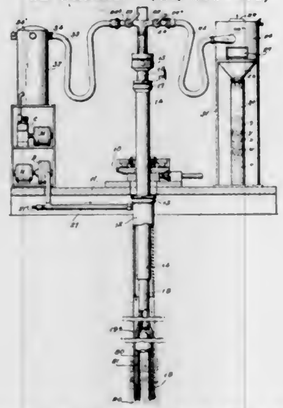
projecting nose forming a bolt engaging abutment extending outwardly from said face.

2,167,392
APPARATUS FOR FORMING MOLDED ARTICLES
Angus McDonald, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application January 20, 1936, Serial No. 59,973
8 Claims. (Cl. 18—17)



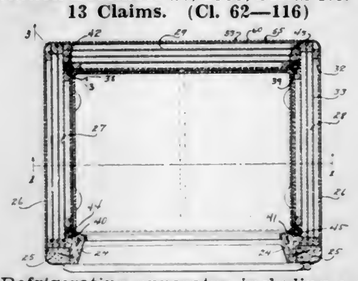
1. In apparatus for molding a plurality of articles to a predetermined contour, a frame, a plurality of platens mounted upon the frame in superimposed relationship for sliding movement relative to the frame, means for sliding said platens to operative and inoperative positions, a contoured form supported in each platen and adapted to support the articles to be molded, means for independently controlling the movement of each platen by the platen sliding means aforesaid, and means for introducing fluid under pressure into each platen in timed relation to the movement thereof.

2,167,393
PNEUMATIC DRILLING METHOD AND MEANS
David J. Muncy, Amarillo, Tex.
Application March 14, 1934, Serial No. 715,534
Renewed July 26, 1938
11 Claims. (Cl. 255—24)



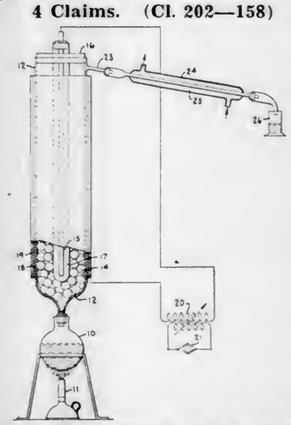
1. The method of drilling a well which comprises the advancing of a drill-bit into the formation, forcing a stream of air downwardly to the bit and upwardly to the surface to remove the cuttings from the well, separating the cuttings from the stream of air and depositing them into a transparent receptacle thereby enabling visual inspection as drilling proceeds.

2,167,394
REFRIGERATING APPARATUS
Harry F. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 27, 1933, Serial No. 704,151
13 Claims. (Cl. 62—116)



2. Refrigerating apparatus including a plurality of walls surrounding a space to be kept cool, insulating means surrounding the walls, and refrigerating means having an intercepting portion extending between the walls and the insulating means for intercepting any heat leaking through the insulating means, said intercepting portion being formed of a means having high heat conducting and high heat reflecting properties.

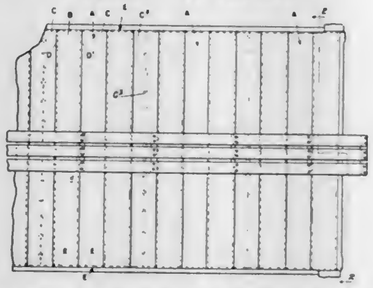
2,167,395
FRACTIONATING APPARATUS
Charles A. Thomas, Dayton, Ohio, assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
Original application August 5, 1935, Serial No. 34,690, now Patent No. 2,153,599. Divided and this application January 11, 1939, Serial No. 250,429
4 Claims. (Cl. 202—158)



1. A distillation column of the character described for effecting complete separation of a mixture of fluids of different boiling point characteristics, comprising means for vaporizing said

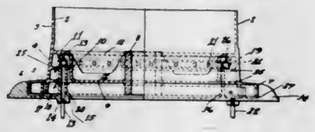
mixture of fluids to a gaseous state and for passing said gaseous mixture into said column, an electrode extending into said column substantially centrally thereof, another electrode cooperating with said first electrode and positioned along the wall of said column, a plurality of inert bodies substantially filling the space between said first electrode and the wall of said column and providing additional surfaces of contact upon which condensation particles may collect and aggregate to form a film of liquid, and means including said electrodes for subjecting the fluid within the column and in the presence of said bodies to a high intensity electrostatic field adapted to control the particle size and precipitation of condensed liquid particles, to effect complete separation of one of said fluid constituents from the other.

2,167,396
CAR ROOF
William D. Thompson, Birmingham, Mich., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application March 14, 1938, Serial No. 195,873
3 Claims. (Cl. 108—5.4)



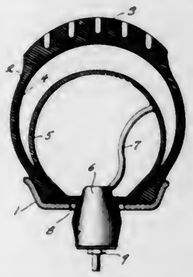
1. A car roof comprising a series of rolled units each extending transversely of the car, each unit having portions in spaced paralled planes connected by portions substantially normal thereto and forming reverse channels with complementary portions of another channel located at opposite edges, said units being joined to each other by welding their adjacent edges, and eaves connections formed of members having their upper ends fashioned to correspond to the cross sectional contour of the ends of said units and secured thereto, said connections curving outward and downward into a single vertical plane for attachment to the side plates of the car said plane being spaced inward from the outer face of the car side.

2,167,397
WATER-COOLED WIRE BLOCK
Carl E. Tideman, Worcester, Mass., assignor of one-half to Verner G. Anderson, Worcester, Mass.
Application June 3, 1938, Serial No. 211,556
6 Claims. (Cl. 205—20)



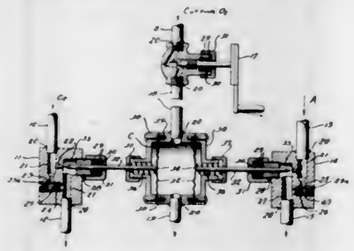
1. In wire drawing apparatus, a wire block rotatable on a substantially vertical axis and having a rim about which wire is coiled, and a stationary ring-shaped pipe positioned inside the block above the level of the lowermost part of the substantially cylindrical portion of the rim about which the wire is coiled and having nozzles for directing cooling fluid against the inner surface of the rim throughout the entire circumference thereof.

2,167,398
PNEUMATIC TIRE
Ira I. Tubbs, Coral Gables, Fla.
Application July 6, 1936, Serial No. 88,995
9 Claims. (Cl. 152—418)



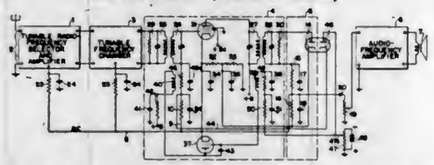
1. A pneumatic tire adapted for mounting upon a wheel, and a receptacle upon said wheel, in combination with a flexible conduit within the receptacle connecting said tire and receptacle and adapted to permit a flow of fluid from the receptacle to the tire, and means adapted to automatically control said flow and maintain a predetermined pressure in the tire.

2,167,399
APPARATUS FOR INCREASING EFFICIENCY OF GAS CUTTING OPERATIONS
Robert L. Wagner, Niagara Falls, N. Y., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application December 18, 1936, Serial No. 116,575
21 Claims. (Cl. 158—27.4)



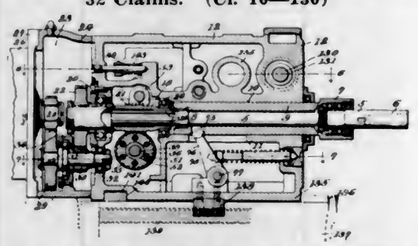
1. In a cutting torch, the combination comprising a combustible gas supply line, a combustion supporting gas supply line, and a cutting gas supply line, a valve and an orifice of predetermined size in by-pass relation thereto in each of said combustion supporting and combustible gas supply lines for controlling the flow of gas therethrough, and means responsive to the pressure in said cutting gas supply line for closing said valves so as to permit flow of such combustible gas and combustion supporting gas only through said by-pass orifices.

2,167,400
VARIABLE SELECTIVITY RADIO RECEIVER
John F. Farrington, Flushing, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application January 21, 1937, Serial No. 121,416
12 Claims. (Cl. 179—171)



1. In a modulated-carrier signal receiver including means for developing a signal-derived control bias, an adjustable bias controlled bandpass selector stage, means for applying said signal-derived bias to said stage to control the band width of said selector, and means for limiting the maximum amplitude of said signal-derived bias applied to said stage, thereby to limit the maximum band width of said selector to a predetermined value corresponding to the usual band width of received signals without limiting the sensitivity of said first-named means below said maximum amplitude.

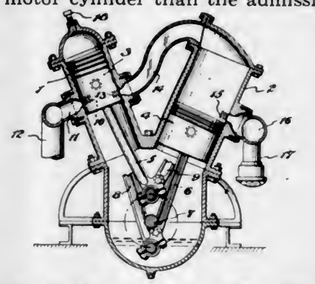
2,167,401
MACHINE TOOL WITH FEEDING MECHANISM
Benjamin Norton Foster and Edward Joslin Kingsbury, Keene, N. H., assignors to Kingsbury Machine Tool Corporation, Keene, N. H., a corporation of New Hampshire
Application January 6, 1937, Serial No. 119,336
32 Claims. (Cl. 10—130)



27. In a machine of the character described, the combination of a supporting table; a plurality of tapper heads mounted on said table; work piece supporting means; indexing means operable to bring about relative movement between said heads and said work piece to serially correlate said piece and heads; each said head comprising a tapper tool carrying spindle, a quill in which the spindle is rotatably mounted, quill reciprocating means, and a motor for rotating the spindle and for actuating the reciprocating means; means for simultaneously connecting the motors in driving relation with the several reciprocating means and for reversing the direction of rotation of the several spindles to initiate a tapping cycle; and means for individually reversing the direction of rotation of the spindles in the respective heads as the infeeding of each tapper tool is completed.

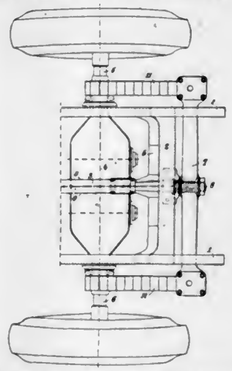
2,167,402
TWO-STROKE ENGINE
Francisco Giró, Buenos Aires, Argentina
Application October 16, 1937, Serial No. 169,485
In Argentina November 23, 1936
1 Claim. (Cl. 123—59)

In a two-stroke V-type engine, a pair of closed end motor cylinders, a pair of compressor cylinders arranged at an angle with respect to the motor cylinders, the intermediate portion of said motor cylinders having exhaust and air admission ports arranged in the wall thereof, a piston arranged for reciprocation in each of said cylinders, a conduit extending from the air admission port of each motor cylinder to one of the compressor cylinders to provide open communication with the tops thereof, the exhaust ports of said motor cylinders being arranged nearer the top of each motor cylinder than the admission ports



thereof, and the intermediate wall portion of said compressor cylinders having air admission ports and means for moving the piston of each compressor cylinder upwardly while the piston of the motor cylinder connected to the compressor moves downward whereby the exhaust ports of the motor cylinders are opened before the admission ports thereof so as to prevent back pressure in the conduits and permit the compressed air to thereafter sweep the motor cylinders, and means arranged in the closed ends of the motor cylinders for injecting fuel into each motor cylinder.

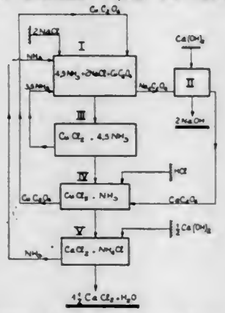
2,167,403
SPRING SUSPENSION FOR MOTOR VEHICLES AND THE LIKE
Georges Guérard, Asnieres, France, assignor to Societe Anonyme dite Etablissements Laffly, Asnieres, France
Application October 12, 1937, Serial No. 168,653
In France October 17, 1936
2 Claims. (Cl. 267—19)



1. In a suspension for motor vehicles and the like, the combination of a frame, a transverse beam or flier, adapted to swing around a substantially horizontal shaft or axle situated in the vertical middle plane of the vehicle frame, a longitudinal half-spring rigidly connected to each end of the said transverse beam, two cross axles articulated in the vicinity of the said middle ver-

tical plane each of which carries a wheel at its free end, the free ends of the said half-springs being connected to the said cross axles.

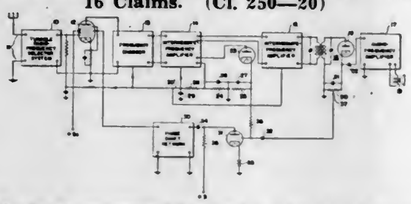
2,167,404
PROCESS FOR THE MANUFACTURE OF CAUSTIC SODA
Henri Lawarree, Brussels, Belgium
Application November 16, 1936, Serial No. 111,144
In France December 18, 1935
9 Claims. (Cl. 23—184)



1. A process for the manufacture of caustic soda, which comprises bringing together a solution, containing ammonia, of a soluble sodium salt, the acid of which forms a soluble salt with calcium, and a metallic oxalate which is soluble in the said solution and the soluble salts of the metal of which are capable of undergoing a double decomposition reaction with calcium oxalate, and of being separated from such ammonia, and thereby forming sodium oxalate as a precipitate in a solution containing a salt of the metal of said metallic oxalate; removing the sodium oxalate, and causticising it to produce caustic soda and calcium oxalate; separating out the said ammonia, and regenerating the initial metallic oxalate by reaction of the calcium oxalate with a solution containing the salt of the metal of said metallic oxalate which remained after the said removal of sodium oxalate.

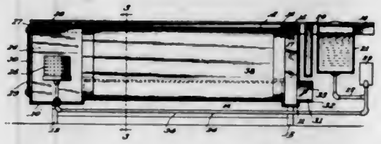
2. A process for the manufacture of caustic soda, which comprises causing a soluble sodium salt the acid of which forms a soluble salt with calcium to react with copper oxalate in ammoniacal solution to produce sodium oxalate, removing the latter, causticising it to form caustic soda and calcium oxalate, recovering the ammonia, and regenerating the initial copper oxalate by reaction of the calcium oxalate with a solution containing the copper salt which remained after the said removal of sodium oxalate.

2,167,405
FIDELITY CONTROL
Arthur V. Loughren, Tuckahoe, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application August 13, 1936, Serial No. 95,747
16 Claims. (Cl. 250—20)



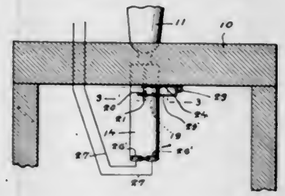
14. In a modulated-carrier signal receiver, a modulated-carrier repeater stage, a frequency-selective network coupled to and following said stage, and means for varying the transmission efficiency of said repeater stage for the modulated-carrier frequency signal by an amount proportional to the instantaneous amplitudes of at least a portion of the frequency components included in the modulation-frequency envelope of a modulated carrier selected by said network, thereby to control the fidelity of reproduction of said receiver.

2,167,406
OIL OR GAS HEATING RADIATOR
Frank Maczko, Chicago, Ill.
Application January 26, 1938, Serial No. 187,064
1 Claim. (Cl. 126—93)



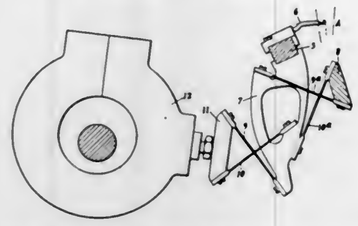
A radiator of the kind described comprising spaced headers having feet for resting upon a foundation and supporting said headers elevated therefrom, one of the headers being of greater size than the other, both headers being formed with nipples, a plurality of tubes arranged between and connected with the nipples for communication with said headers, bars fixed to the feet at opposite sides of the headers, angle pieces at opposite sides of said headers, fixed thereto and overhanging the same, a burner within the larger header, means for supplying fuel to the burner, said angle pieces being extended beyond one of the headers and having the fuel supply means suspended thereby, and a flue coupled with the headers and disposed in proximity to the said tubes for augmenting the latter.

2,167,407
MAGNET FOR ORGANS
David Marr, Warsaw, N. Y.
Application February 17, 1939, Serial No. 257,002
5 Claims. (Cl. 84—339)



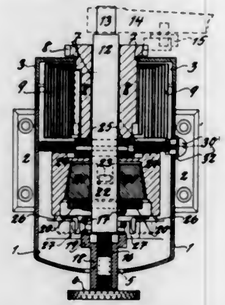
1. A magnetic valve for organs comprising a casing provided in one side with an opening forming an air port, a solenoid in the casing, an armature for the solenoid, a valve on the armature, said valve and said solenoid being disposed on opposite sides of said opening, there being a slot in said casing, a pin carried by the armature and extending through said slot, and a spring disposed exteriorly of the casing having a pair of legs one of which is adapted to be engaged with said pin and the other of which is adapted to lie along the casing for application and removal as a unit with the casing when the casing is wedged in a counterbore in organ mechanism.

2,167,408
KNITTING MACHINERY
James Morton and William Langston Collingwood Carter, Carlisle, England, assignors to F. N. F. Limited, Gloucester, England, a British company
Application February 6, 1939, Serial No. 254,952
In Great Britain February 11, 1938
14 Claims. (Cl. 66—86)



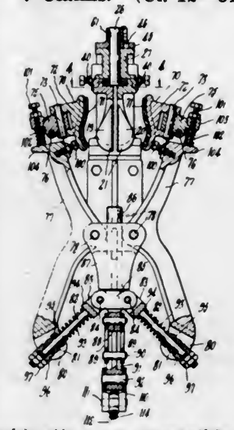
1. In a warp knitting machine, in combination, a knitting unit mounted for to-and-fro movement, a driving member mounted for to-and-fro movement, and a pair of resilient cross members interposed between said unit and said member to provide articulation therebetween.

2,167,409
AUTOMATIC DOOR CHECK WITH TENSION CONTRIVANCE AND MECHANICAL BRAKE
Walter Schmidt, Menden, Iserlohn, Germany
Application June 9, 1938, Serial No. 212,786
In Germany July 10, 1937
8 Claims. (Cl. 16—49)



1. In a door check, a casing, a tension cylinder having a bore therethrough and extending into the casing from one end thereof, a spirally coiled spring surrounding said cylinder within the casing and having its ends secured to the cylinder and casing respectively, a shaft rotatably mounted in said bore and having an end projecting through the cylinder outside the casing, an operating lever mounted on said shaft end and operatively connected to said cylinder, the other end of said shaft projecting from the cylinder within the casing, a friction clutch member rotatably mounted on the last mentioned end of the shaft, a second friction clutch member splined on the shaft and coacting with the first clutch member, means urging said clutch members into clutching relation, and means supported from the casing within the latter to hold the first clutch member against rotation in one direction and to free the clutch member for rotation in the other direction.

2,167,410
SHOE UPPER PRESSING AND SMOOTHING MACHINE
John F. Smith, Quincy, Mass., assignor to Milton L. Dodge, Newburyport, Mass.
Application March 4, 1938, Serial No. 193,947
7 Claims. (Cl. 12—51)



1 In combination, an expansible and contractible form over which a shoe may be placed, rocking means for expanding said form, a stop angularly adjustable about the rocking axis of said rocking means, and means for actuating said rocking means from between contracted position and the expanded position determined by the setting of said stop.

2,167,411
BUTTER FORK
Nicholas Andros, Los Angeles, Calif.
Application May 14, 1938, Serial No. 208,074
3 Claims. (Cl. 30—129)

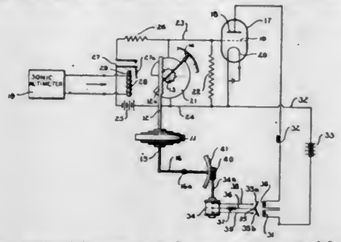


1. A butter fork comprising a shank, a handle on one end of said shank, a slidable rod on said shank, tines on the other end of said shank and arranged in a substantially triangular configuration, means for removing butter from the tines comprising a plate of substantially triangular configuration and detachably secured to said slidable rod, said slidable rod having a V-shaped portion and a slide.

2,167,412
MEANS FOR MEASURING THE ALTITUDE OF AIRCRAFT
Martin Baesecke, Berlin-Siemensstadt, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application April 6, 1938, Serial No. 200,526
In Germany November 13, 1934
8 Claims. (Cl. 73—4)

7. The combination with an altimeter for gauging the altitude of an aircraft above a single datum, of a second altimeter for gauging the altitude of an aircraft relative to the earth directly therebeneath, a variable condenser, means for controlling the capacity of said condenser in accordance with the indications of the first-named altimeter, means for controlling the charging

time of said condenser in accordance with the indications of said second altimeter whereby a constant potential across said condenser is maintained when the indications of said altimeters



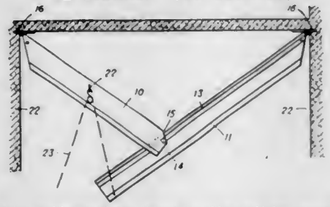
are in coincidence, and means operable in accordance with a change in said potential for adjusting the indication of said first-named altimeter to agree with that of said second altimeter.

2,167,413

SUPPORT SUCH AS CENTERING, SHUTTERING, SCAFFOLDING, AND THE LIKE

Reginald Frank Bartlett, Weybridge, England

Application November 27, 1937, Serial No. 176,933
In Great Britain December 2, 1936
11 Claims. (Cl. 189—37)



10. An adjustable and collapsible support for use as a temporary support in building operations comprising two interfitting members, and means including a pivot whereby the members may have telescopic movement and a swinging motion about the pivot.

2,167,414

STIFFENED FABRIC FOR AIRPLANE WINGS

Wyly M. Billing, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application December 8, 1937, Serial No. 178,809
6 Claims. (Cl. 91—68)

1. A stiffened fabric, characterized by tautness and resistance to light, water and weathering and suitable for use in the construction of airplane wings, comprising a normally flexible fabric impregnated with a composition comprising a chemically mixed organic ester of cellulose from the group consisting of cellulose acetopropionate and cellulose acetobutyrate, said mixed ester of cellulose containing from 0.5 mols to 2.5 mols of acetyl radical and from 0.5 mols to 2.5 mols of a higher acyl radical and having a total acyl radical content of 2.2 to 3 mols per unit of anhydroglucose ($C_6H_{10}O_5$).

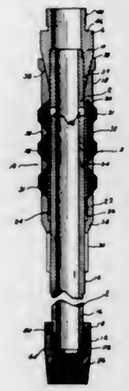
2,167,415

HOLD-DOWN VALVE

Sebastian L. Calvert, Bristow, Okla.

Application May 10, 1938, Serial No. 207,104
13 Claims. (Cl. 103—181)

1. In an anchoring device for use in a well tubing comprising a differential tubular member, a cylinder assembly slidable on the tubular member and provided with means for creating a frictional engagement between the cylinder assembly and the tubular member, seating rings carried by the cylinder assembly cooperating with the tubing to secure the cylinder assembly therein, a tapered nut secured to the upper end portion



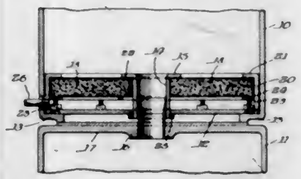
of the tubular member, said cylinder assembly provided with a taper cooperating with the tapered nut to form a fluid seal, apertured means in the tubular member for bleeding fluid through the tubular member upon a release of the frictional binding between the tubular member and the cylinder assembly.

2,167,416

FEEDER FOR PULVERIZED MATERIALS

Adolph G. Carlson, Chicago, Ill.

Application July 21, 1937, Serial No. 154,883
2 Claims. (Cl. 221—124)



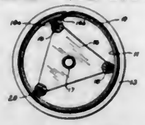
1. A feeder for finely divided material, in combination, a receiving member for receiving and retaining a quantity of said material, said receiving member having a bottom plate and a bottom member positioned in spaced relation above said plate, means having threaded connection with said plate and projecting above the inside surface thereof for spacing the bottom member, a tubular discharge port extending through said bottom member and plate, said discharge port having a laterally extending flange at its upper end overlying and having contact with the adjacent edges of said bottom member, the other end of said discharge port extending below the bottom plate and receiving securing means, and means delivering air under pressure to the space between the bottom member and plate, said bottom member having a plurality of relatively small perforations therein whereby the air is permitted to escape upwardly into the receiving member for agitating the material therein to maintain a constant and uniform feed to the discharge port.

2,167,417

RECORDING PAPER LOCKING DEVICE

Ralph R. Chappell, Richmond, Va., and Rutger B. Colt, Baltimore, Md., assignors to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application July 11, 1936, Serial No. 90,226
16 Claims. (Cl. 101—415.1)



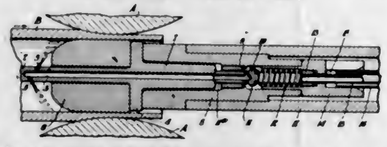
1. In apparatus of the class described, a hollow drum having a longitudinal slot in the surface thereof, locking means within said drum comprising a skeleton structure having a plurality of spaced members, each of said members bearing against said drum and movably supported by the internal surface thereof, and means for relatively rotating said locking means and drum.

2,167,418

PIPE OR TUBE ROLLING

Stevenson Findlater, McKeesport, Pa., assignor to National Tube Company, a corporation of New Jersey

Application January 21, 1937, Serial No. 121,660
2 Claims. (Cl. 80—13)



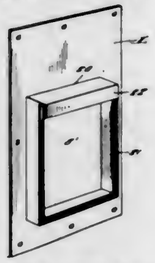
1. In an apparatus for interiorly supporting and lubricating tubular blanks while being rolled, a mandrel bar, a plug bar reciprocably mounted on the forward end of said mandrel bar, said plug bar having a bore and a plurality of apertures adjacent the forward end thereof which communicate with said bore, said mandrel bar having a valve chamber adjacent the rearward end of said plug bar, a valve in said chamber, means for supplying a lubricant under pressure to said chamber, and means responsive to the reciprocation of said plug bar for operating said valve.

2,167,419

ELECTRIC METER BOX

Herbert Heanes, Santa Ana, Calif.

Application January 5, 1938, Serial No. 183,520
1 Claim. (Cl. 175—220)



A meter box of the class described comprising a box, a removable lid having a large hole therein, an outwardly extending flange around the edges of the hole in the lid, the upper portion thereof extending outwardly beyond its side portion and its lower portion being provided with an elongated groove, an overhanging lip on the upper portion of the flange disposed in spaced relation from the side portions thereof, a meter supporting cap having its upper end disposed behind the lip and its lower end bent at right angles to its body portion and seated in the aforesaid groove, an outwardly extending flange formed on said cap and having apertures therein, fastening elements passing through the apertures in the flange of the meter supporting cap and securing a meter within the opening of the cap, a split ring surrounding the flange of the cap and having its inner edge abutting the cap and its outer portion bent at right angles to the front of a shoulder formed on the meter, securing means connecting the split end of the ring and means securing the meter supporting cap and meter carried thereby to the box.

2,167,420

HYDROGENATED REACTION PRODUCT OF A ROSIN ESTER AND MALEIC ANHYDRIDE AND METHOD FOR ITS PRODUCTION

Irvin W. Humphrey, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware

No Drawing. Original application May 14, 1935, Serial No. 21,381. Divided and this application February 18, 1938, Serial No. 191,203
19 Claims. (Cl. 260—100)

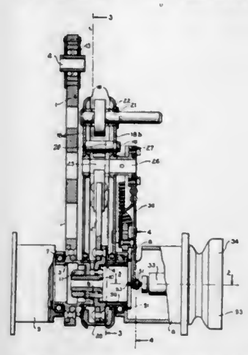
1. A reaction product of monohydric alcohol ester of a rosin acid and maleic anhydride, the unsaturation of the product being reduced by hydrogen.

2,167,421

AUTOMATIC CONTROL DEVICE FOR VEHICLES

Kurt Jann, Berlin-Charlottenburg, and Heinrich Roland, Berlin-Steglitz, Germany, assignors to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany

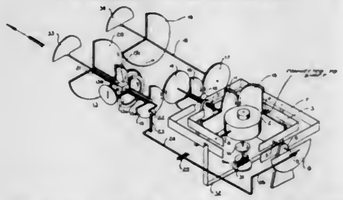
Application October 7, 1937, Serial No. 167,860
In Germany October 17, 1936
6 Claims. (Cl. 74—469)



1. A coupling device comprising a pair of levers rotatable about the same axis and adapted to be connected respectively to receive and transmit power, a pawl pivotally mounted on one of said levers, a member associated with the other of said levers and adapted to be engaged by said pawl for locking said levers for movement in unison, a pivoted arm adapted to control said pawl, the free end of said arm lying substantially in said axis when said arm is in locking position, a control

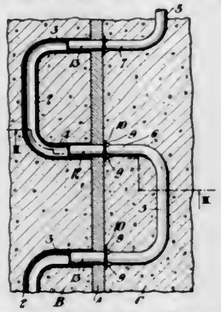
means, and a linkage connecting said control said pawl between engaging and disengaging positions.

2,167,422
APPARATUS FOR ESTABLISHING AN ARTIFICIAL HORIZON
Heinrich Langgässer, Berlin-Grunewald, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany
Application October 12, 1937, Serial No. 168,667
In Germany July 29, 1936
7 Claims. (Cl. 33—204)



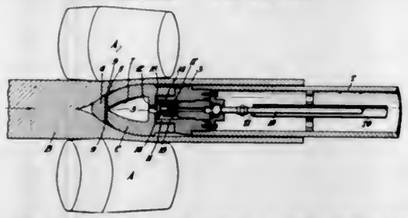
2. In a device of the character described, a gyroscope mounted for three degrees of freedom about mutually perpendicular transverse and longitudinal axes, an indicator, gear means rotatable with the gyroscope about said transverse axis, gear means rotatable with the gyroscope about said longitudinal axis, and means controlled by both said gear means for actuating said indicator including means responsive to one of said rotations for counter-acting the effect of said rotation upon said indicator.

2,167,423
PAVEMENT JOINT
Michel Nigro, Worcester, Mass., assignor to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application June 23, 1937, Serial No. 149,985
5 Claims. (Cl. 94—18)



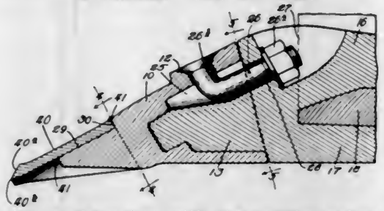
1. In a pavement or the like embodying the combination of a pair of adjacent sections and an intermediately disposed compressible filler, a U-shaped element having an opening in at least one of its ends, said U-shaped element being carried by one of said sections and having its ends flush with the end of the section by which it is carried, a U-shaped element carried by the other of the adjacent sections, one of the ends of said second-named U-shaped element being extended through said compressible filler and into the opening in the end of said first-named U-shaped element, and retainer means carried by said second-named U-shaped element for limiting the movement of the latter through said compressible filler.

2,167,424
PIPE OR TUBE MAKING
Edward J. Novack, McKeesport, Pa., assignor to National Tube Company, a corporation of New Jersey
Application March 29, 1938, Serial No. 198,784
3 Claims. (Cl. 80—13)



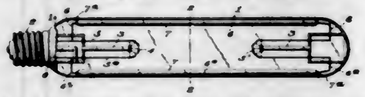
1. In a pipe or tube mill, a mandrel-bar, a mandrel-plug reciprocably mounted on the forward end of said mandrel-bar, said mandrel-bar having a valve chamber in its forward end, a valve in said valve chamber, said valve being normally spring-biased into closed position, an extension on the rear of said mandrel-plug which is operable to open said valve by the feeding movement of a work-piece into the mill, a tube extending through said mandrel-bar and opening into said valve chamber, said mandrel-plug having a bore in communication with said valve chamber when said valve is in open position, the tip of said mandrel-plug having at least one passageway extending from said bore to its periphery, and means for delivering a lubricant to said tube.

2,167,425
TOOTH-POINT CONSTRUCTION
John W. Page, Chicago, Ill., assignor to Page Engineering Company, Chicago, Ill., a corporation of Illinois
Application December 22, 1938, Serial No. 247,273
6 Claims. (Cl. 37—142)



1. In combination with the cutting edge of an excavating device, a tooth point on said cutting edge and provided with an arched forward portion, the axis of the arch extending longitudinally of the point, and a detachable arched blade carried by the tooth point mounted on said arched portion.

2,167,426
INCANDESCENT TUBULAR LAMP
Emanuel Spielholz, North Bergen, N. J., assignor to Duro-Test Corporation, a corporation of New York
Application November 18, 1938, Serial No. 241,263
5 Claims. (Cl. 176—26)



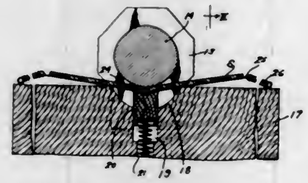
1. An incandescent electric lamp, comprising a substantially tubular body closed at one end; a contact plug closing the other end of the body; supports within the body at the ends thereof; incandescent filaments on said supports; conductor wires connecting said filaments respectively with the said plug; and insulating tubes carrying the wires for the filament remote from the plug and connected to the wall of the body.

2,167,427
OPEN TOP CAR
John J. Tatum, Baltimore, Md.
Application October 19, 1937, Serial No. 169,884
5 Claims. (Cl. 105—355)



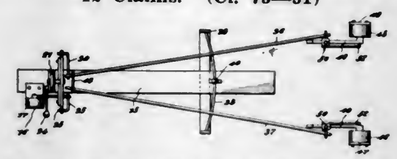
1. A freight car having corner posts, end walls extending from the floor up to the top of the corner posts, side wall portions at the car ends having the same vertical height as the corner posts, lower central side wall portions extending longitudinally between the side wall portions at the car ends and of less vertical height than said side wall portions at the car ends, and side stakes mounted on the lower central side wall portions and extending thereabove to a height equal to the height of the side wall portions at the car ends and serving to prevent lateral shifting of lading in the portions of the car intermediate the side wall portions at the car ends when the lading in the central portion of the car is loaded to a height greater than that of the lower central side wall portions.

2,167,428
MACHINE FOR BENDING WOOD SHEETS
Vincent R. Trabucco, Steger, Ill., assignor to Steger Furniture Mfg. Co., Steger, Ill., a corporation of Illinois
Application July 6, 1937, Serial No. 151,991
1 Claim. (Cl. 144—266)



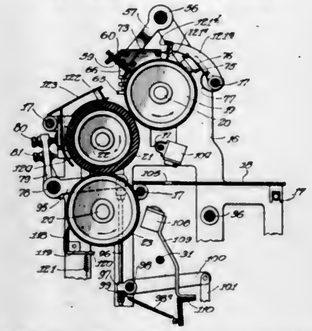
A machine for bending wood sheets comprising a die member, a rigid caul block arranged relatively movable with respect to said die member and having a rigid upper flat surface to support a sheet to be bent, and bounding a depressed surface of said block defining a die channel in spaced opposed relation to said die member, means defining a vertical bore in said block opening into said channel, a pressure receiving member in said channel and reciprocable in said bore, means yieldingly supporting said pressure receiving member, a spring plate normally lying flat on said caul block and bridging said depressed portion of said block, and spring means connected to opposite ends of said plate to subject said opposite ends to tension when said plate is bent by said die member, said plate being a table to support the wood sheets to be bent.

2,167,429
TESTING MACHINE FOR SHOCK ABSORBERS AND THE LIKE
Louis E. Willard, Dallas, Tex., assignor of fifty-one per cent to John M. Hanford, Dallas, Tex.
Application August 14, 1937, Serial No. 159,171
12 Claims. (Cl. 73—51)



1. A testing machine for shock absorbers and the like, comprising a testing meter, a balance arm mounted for swinging movement upon the testing meter, an indicator actuated by said balance arm, means for detachably connecting one end of said balance arm to a standard testing shock absorber, a beam arm adapted to be connected at one end to a shock absorber to be tested, means for detachably connecting the opposite end of said balance arm to the opposite end of said beam, and means for manually lifting the testing meter whereby the resistance of the shock absorber which is being tested may be readily determined.

2,167,430
FILMING MACHINE
Philip C. P. Booty and Raymond G. Booty, Chicago, Ill., assignors, by mesne assignments, to Reichel & Drews, Inc., Chicago, Ill., a corporation of Illinois
Application July 22, 1937, Serial No. 155,050
20 Claims. (Cl. 91—50)

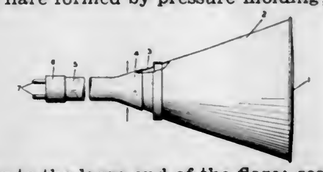


1. In a filming machine, the combination of a revoluble member, means for moving a panel past said revoluble member in operative engagement therewith, and means controlled by the forward movement of a panel past said revoluble member for spreading a film of glue on said revoluble member for transfer to the panel as it moves through the machine.

2,167,431
METHOD OF MANUFACTURING CATHODE RAY TUBES
Robert M. Bowie, Emporium, Pa., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Application August 14, 1936, Serial No. 95,969
3 Claims. (Cl. 250—27.5)

3. The method of manufacturing a highly evacuated cathode-ray tube which comprises preforming as separate units the following: a sub-

stantially flat glass window; a frusto-conical metal body; a frusto-conical metal sealing ring; a glass flare formed by pressure molding; sealing



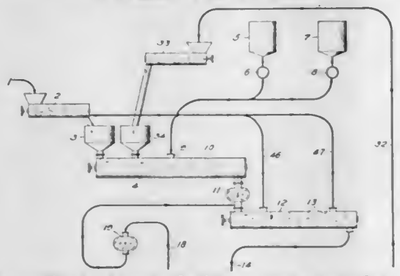
the ring to the large end of the flare; sealing the window to the large end of the metal body; and welding the ring to the small-end of the metal body.

2,167,432

GRANULATION OF NONGRANULAR MATERIALS

George E. Cox, Niagara Falls, N. Y., and Walter G. McBurney, Niagara Falls, Canada, assignors to American Cyanamid Company, New York, N. Y., a corporation of Maine

Application May 14, 1937, Serial No. 142,632
1 Claim. (Cl. 23—239)



A method of granulating a non-granular material chosen from the group consisting of calcium cyanamid, ammonium phosphates, calcium phosphates, basic slag, calcined phosphates, alkali and ammonium sulfates and muriates and bauxite fines which includes the following steps: adjusting the liquid content thereof so that when the material is passed through squeeze rolls it will have sufficient adherence to form flakes, passing the moistened material through squeeze rolls to form flakes, the thickness of the flake largely determining the eventual diameter of the granules, breaking up the flakes into rough granules, tumbling the rough granules upon themselves to round up the same and compact the solid matter thereof while driving the liquid content thereof to the surface, separating the oversize masses from the desirably sized granules by passing the result of the granulating operation over a screen, and thereafter separately drying the rounded compacted granules freed from oversize.

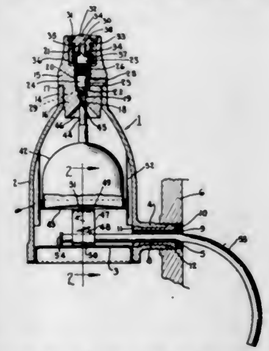
2,167,433

AIR VENT VALVE

George Bethune Duffield, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application May 4, 1936, Serial No. 77,689
19 Claims. (Cl. 236—63)

1. In an air vent valve for a heating system, a casing including a die cast body portion, said casing having an air outlet port, temperature responsive means controlling said port and operable to prevent the escape of steam through said outlet port, said body portion having a tubular externally extending nipple die cast integral therewith, said nipple being threaded for threaded connection with a radiator of the system, and a tubular insert member defining the inner wall of said nipple for reenforcing the nipple against breakage, said nipple being cast around said insert to provide a fluid tight fit therebetween.



8. An air valve of the character described comprising a hollow casing, a valve housing closing one end of said casing, said housing having a passageway therethrough, a valve in said casing and controlling said passageway, a valve member adjustably screw threaded in said housing and controlling said passageway, said housing having a chamber, a stem on said valve member extending into said chamber, a plate member overlying said stem and closing said chamber, said plate member having an aperture therethrough concentric with said stem, an operating member rotatably supported in said aperture and extending therethrough, and means operatively connecting said operating member and said stem.

2,167,434

VAT DYESTUFF OF THE ANTHRAQUINONE SERIES AND PROCESS FOR PRODUCING THE SAME

Donald P. Graham, South Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application April 22, 1935, Serial No. 17,677
4 Claims. (Cl. 260—316)

1. The aluminum chloride fusion product of 1,4, 5-trianthraquinonylamino-anthraquinone.

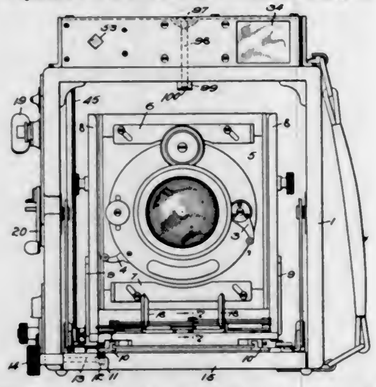
2,167,435

RANGE AND VIEW FINDER AND CAMERA MECHANISM FUNCTIONALLY EQUIPPED THEREWITH

Edson S. Hineline, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware

Application July 23, 1937, Serial No. 155,259
12 Claims. (Cl. 95—44)

1. A range finder and camera mechanism functionally equipped therewith, having in combination, a camera casing provided with a wall adapted to be opened out for use as a bed, said casing having therein a front support for the objective lens movable to and fro for focusing purposes along said bed when so opened out, a range finder attached to said casing in fixed relation, said range finder including two mirrors both afixedly housed upon the camera casing in constant functioning position, means actually mechanically connected at all times (i.e. whether the finder and the camera mechanism are in use or are in closed position out of use), both to the said finder and to the said front support, and constituting an operating connection whereby the focusing of the said objective lens and the functioning of the



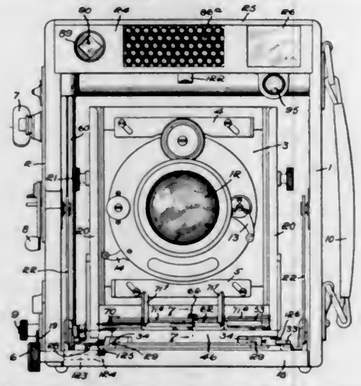
range finder are simultaneously accomplished, and focusing-cam-means mounted upon the said wall of the camera casing that serves as a bed and so positioned thereon as to act upon said operating connection in the focusing movement of the objective lens.

2,167,436

CAMERA MECHANISM HAVING CORRELATED RANGE AND VIEW FINDER

Edson S. Hineline, Rochester, N. Y., assignor to The Folmer Graflex Corporation, Rochester, N. Y., a corporation of Delaware

Application July 29, 1937, Serial No. 156,360
8 Claims. (Cl. 95—44)



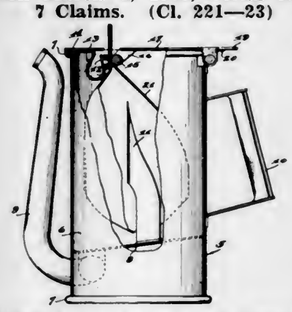
1. A combined view and range finder and camera mechanism functionally equipped therewith having, in combination, a camera casing provided with a wall adapted to be opened out for use as a bed, said casing having therein a front support for the objective lens, movable to and fro for focusing purposes along said bed, a combined view and range finder attached to the camera casing and having two fixed mirrors and a negative lens therebetween movable in the functioning of the range finder, and also having a combined view and range finding lens receiving light rays for one of said mirrors and located beyond said mirror with respect to the eye of the observer, a shaft or rod mounted in the structure of said casing for movement therein, and means mechanically connecting at all times said shaft or rod both with said negative lens and said front support to secure conjoint movement of the negative lens and said front support, whereby it is unnecessary mechanically to connect and disconnect the parts respectively upon opening and closing the camera, or to rely upon merely touching contact to secure simultaneous movement of the negative lens and the front support, and a range-finder focusing cam on the camera casing cooperating with said mechanically connecting means.

2,167,437

DISPENSING CONTAINER

John Hohl and Charlton P. Whittier, Toledo, Ohio, assignors to Owens-Illinois Glass Company, a corporation of Ohio

Application March 8, 1938, Serial No. 194,624
7 Claims. (Cl. 221—23)



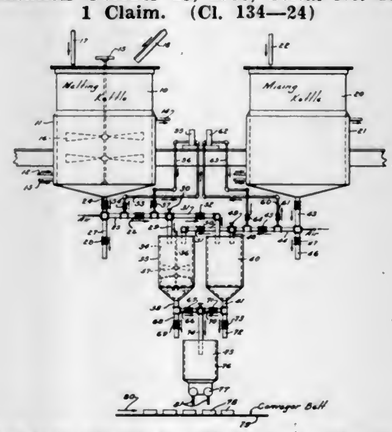
1. A dispensing container for liquid packages having a filling opening and a dispensing opening, means disposed within the container for rupturing a package placed therein, a cover for said filling opening, and cooperating means formed on said container and cover for collapsing and squeezing the walls of said package as the same is withdrawn from the container.

2,167,438

APPARATUS FOR MANUFACTURE OF WAX POLISHING COMPOSITIONS

Gus Kaufman, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

Application October 15, 1935, Serial No. 45,047
1 Claim. (Cl. 134—24)



Apparatus for the continuous manufacture of

a wax polish, comprising in combination separate kettles for forming a melt of wax and hydrocarbon thinner and a water solution of emulsifying agent, heating and cooling means for said kettles, an emulsifier positioned at an elevation below that of the kettles, gravity flow lines for feeding controlled and proportioned streams from the kettles into the emulsifier, a by-pass in each said flow line, a proportioning pump arranged in the by-pass in each gravity flow line, valves for controlling flow either through the proportioning pump or through the gravity flow lines, a filling mechanism, means for continously discharging formed emulsion from the emulsifier to the filling mechanism, and a conveyor for moving containers past the filling mechanism where they are filled with the formed emulsion.

2,167,439
SULPHUR CUTTING OIL

Gus Kaufman, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application December 18, 1937, Serial No. 180,573

8 Claims. (Cl. 87—9)

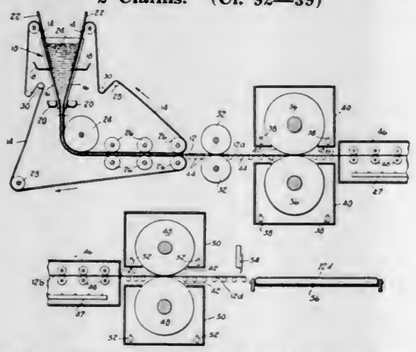
1. A sulphur cutting oil consisting essentially of a mineral lubricating oil initially containing less than 0.4% sulphur sulphurized by heating with uncombined sulphur in the absence of added fatty oil under temperatures of about 310 to 360° F. and at substantially atmospheric pressure to produce a loosely combined sulphur content of 1 to 5% which would normally be unstable, and stabilized after sulphurization by the addition of 2 to 3% of a fatty oil.

2,167,440
CONTINUOUS PRODUCTION OF LIGNO-CELLULOSE FIBER PRODUCT

William H. Mason, Laurel, Miss., assignor to Masonite Corporation, Laurel, Miss., a corporation of Delaware

Application March 31, 1936, Serial No. 71,818

2 Claims. (Cl. 92—39)



2. A continuous process of making hard dense sheet products of ligno-cellulose fiber containing sufficient non-cellulose to be self-bonding, which consists in pressing excess water from a wet sheet of such fiber, then passing the sheet through between pressure rolls heated to a temperature sufficient to consolidate the surface portions while leaving the interior of the sheet in moist state, then passing the sheet through a drier whereby the water content of the sheet is reduced to approximately 3% or less, then passing it through between pressure rolls heated to a temperature over 210° C. and higher than the temperature of the first named rolls whereby the sheet is further hot-roll consolidated, and this time consolidated throughout to yield a substantially homogeneously dense and consolidated sheet product of over 1 specific gravity.

2,167,441
SHAPING POLYVINYLCHLORIDE

Georg Wick, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application November 19, 1936, Serial No. 111,622. In Germany August 9, 1935

3 Claims. (Cl. 18—55)

1. The process for shaping crude polyvinylchloride in the absence of plasticizers and antioxidants which consists in pressing the said material at a temperature above about 40° C. and approximating that temperature at which said polyvinyl chloride would normally be expected to depolymerize, the temperature being higher the higher the degree of polymerization.

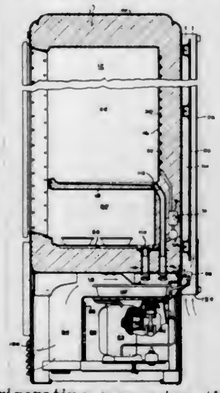
2,167,442
REFRIGERATION APPARATUS

Carl F. Alsing, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application June 18, 1936, Serial No. 85,856

Renewed June 29, 1938

15 Claims. (Cl. 62—115)



1. In refrigerating apparatus, the combination of means for circulating a primary refrigerant and embodying elements from which heat is to be removed, a circulatory system for a secondary refrigerant including cooling means disposed in heat exchange relation with said elements, a secondary refrigerant condenser communicating with said cooling means, a refrigerant container in series with said cooling means and said condenser, and a tertiary cooling fluid disposed in heat exchange relation with said container, said secondary refrigerant being vaporized in said cooling means to abstract heat from said elements, then cooled in said container by the tertiary cooling fluid and finally liquefied in said condenser.

2,167,443
TREATING SEWAGE

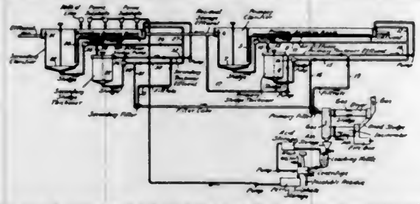
John G. Bevan, New York, N. Y., assignor to Guggenheim Brothers, New York, N. Y., a copartnership

Application December 28, 1934, Serial No. 759,450

5 Claims. (Cl. 210—2)

1. The improvement in the treatment of sewage containing putrescible matter in suspension and in solution which comprises aerating the sewage to effect coagulation of a portion of the suspended matter and to convert a portion of the soluble

matter to precipitable form, separating the coagulated matter from the residual sewage, returning a sludge containing said separated coagulated matter to the sewage undergoing treatment by aeration, subjecting the residual sewage to the action of a coagulating agent to precipi-



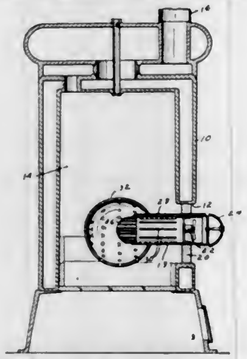
tate said converted matter, whereby precipitation of soluble matter and coagulation of precipitated and suspended matter is effected, separating the coagulated matter from the accompanying liquor, and returning a sludge containing said coagulated matter to the residual sewage undergoing treatment.

2,167,444
LIQUID FUEL BURNER

Kemper P. Brace and Victor W. Kliesrath, South Bend, Ind., assignors to International Engineering Corporation, Chicago, Ill., a corporation of Illinois

Application January 6, 1938, Serial No. 183,624

3 Claims. (Cl. 158—5)



1. In combination with a furnace, a liquid fuel burner comprising an elongated burner tube projecting into the furnace and terminating in the central portion thereof and adapted to conduct air for combustion into the furnace, a porous vaporizing nozzle carried by said tube having passages therethrough for air, means for supplying liquid fuel to said nozzle so that the fuel will be vaporized by air flowing through said passages, and a perforated shell surrounding the nozzle and adapted to reflect heat back to the nozzle.

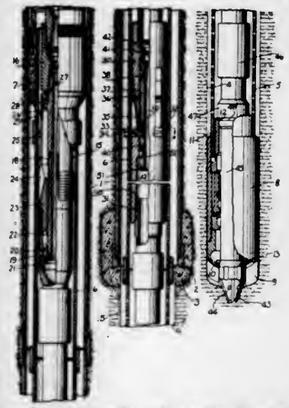
2,167,445
LINER REMOVING DEVICE

Cicero C. Brown, Houston, Tex.

Application May 18, 1936, Serial No. 80,271

7 Claims. (Cl. 164—0.8)

7. A pipe cutter including a tubular housing, cutter blocks slidable laterally in openings in said housing, a sleeve slidable longitudinally in said housing, means on said sleeve to engage and move said cutter blocks outwardly on downward movement of said sleeve, means to seal between said sleeve and said housing above and below said cutter engaging means, means to close the passage through said sleeve so that fluid may be pumped downwardly to move said sleeve and means to limit the downward movement of said



sleeve, the inner wall of said housing being recessed to form a bypass for fluid from above said sleeve when said sleeve reaches its lower position.

2,167,446
HAIR CURLER

Joseph Coggans, Glasgow, Scotland

Application February 25, 1939, Serial No. 258,404

In Great Britain February 9, 1939

2 Claims. (Cl. 132—33)

1. A hair curler comprising, in combination, a drum provided with hair-clamping means and adapted to be rotated by the fingers of one hand, a finger grip rotatably mounted on said drum and adapted to be held by the fingers of the other hand, and means confining said drum to uni-directional rotation so long as said finger grip is held against rotation, said last named means comprising a circular row of ratchet teeth formed on said drum at the end adjacent to said finger grip and a resilient detent formed on said finger grip and engageable with said ratchet teeth.

2,167,447
REFRIGERATION APPARATUS AND METHOD

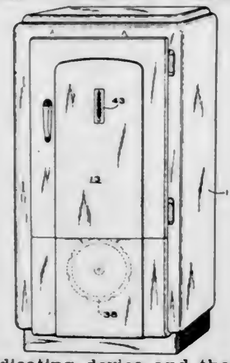
Raymond C. Cosgrove, Mansfield, Ohio, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application September 18, 1937, Serial No. 164,435

5 Claims. (Cl. 62—1)

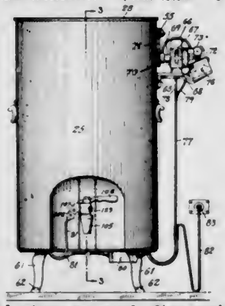
1. The method of adjusting refrigerating apparatus including a machine for refrigerating a zone at substantially constant mean selected temperatures, said apparatus also including a device for indicating the temperature of the ambient media exteriorly of said zone, said temperature indicating device being provided with indicia thereon, said apparatus also including a mechanism for controlling the operation of the machine in accordance with a temperature condition within said zone, and said controlling mechanism being provided with an adjusting device having associated therewith a first series of indicia correlated with the indicia on said temperature indicating device and a second series of indicia associated with said adjusting device comprising a

scale of temperatures corresponding to the temperatures to be selected of the zone to be refrigerated, which method includes observing the indicia recorded by said temperature indicating device and adjusting said adjusting device to the temperature desired to be maintained in said zone by using the indicia recorded on said tem-



perature indicating device and the first of said indicia associated with said adjusting device as a guide in selecting the proper setting of said adjusting device to maintain a desired temperature in the zone to be refrigerated as indicated by the second of said indicia associated with said adjusting device.

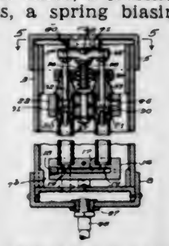
2,167,448
LIQUID DISPENSING CONTAINER
Mayer Feld, Valley Stream, N. Y.
Application May 3, 1937, Serial No. 140,302
14 Claims. (Cl. 221—67)



1. A liquid storage and dispensing unit comprising a container for the liquid, an agitator within said liquid container, actuating mechanism operatively connected to said agitator and adapted to operate the agitator automatically for a predetermined fixed duration of time at fixed predetermined intervals, a dispensing faucet connected to said liquid container, electrical means for preventing the operation of said faucet, and means operatively connecting said actuating mechanism with said electrical means and adapted to control the operation of said actuating mechanism and said electrical means.

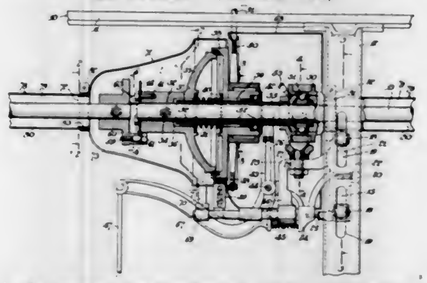
2,167,449
PRESSURE TESTING DEVICE
Montgomery L. Ganser, Norristown, Pa.
Application March 23, 1938, Serial No. 197,667
8 Claims. (Cl. 73—31)

6. In a device of the class described, a housing comprising a pair of sleeves nested one within the other each closed at one end and rotatable about a common axis, a pair of parallel gauge tubes mounted in the inner sleeve, means forming a connection between adjacent ends of the tubes, valves respectively controlling the opposite ends of the tubes, a crosshead interconnecting the valves, a spring biasing the valves to



open position, and camming elements carried by the outer sleeve operative to engage and move the crosshead against the spring to close the valves as the sleeves are turned to bring their openings out of registry and to disengage the crosshead as the sleeves are turned to bring their openings into registry and thereby render the gauge tubes visible through the housing.

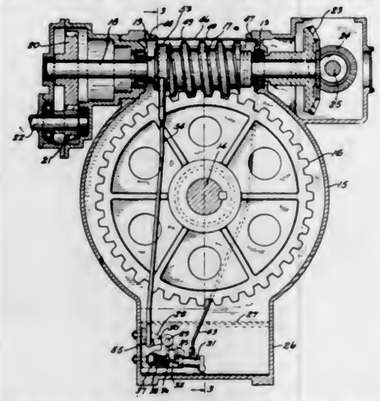
2,167,450
POWER TRANSMITTING UNIT
Michael I. Ginsburg, Philadelphia, Pa.
Application January 25, 1937, Serial No. 122,207
12 Claims. (Cl. 192—66)



1. A power transmission unit comprising a shaft section, a tube mounted on a portion of said shaft section, a main bearing in which one end of said tube is mounted, an outer clutch member on the other end of the tube, means to fix the shaft, tube and outer clutch member together thereby rigidly holding the outer clutch member at a predetermined distance from the main bearing, an inner clutch member in cooperative relation to the outer clutch member, means to cause said inner clutch member to engage the outer clutch member, a pulley on said inner clutch member and means attached to a portion of the main bearing and projecting into the outer clutch member, one of the purposes of said means being to serve as a support for the inner clutch member on which the latter is slidably and rotatably mounted.

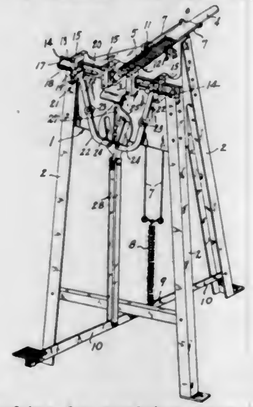
2,167,451
AUTOMATIC OILER
Max W. Goldberg, Port Washington, Wis., assignor to Modern Equipment Company, Port Washington, Wis., a corporation of Wisconsin
Application December 30, 1937, Serial No. 182,458
3 Claims. (Cl. 184—6)

1. An oiling device for use in connection with mechanism which includes a rotatable shaft comprising an oil reservoir, a pump, a conduit leading from said pump to the portions of the mechanism to be lubricated, actuating mechanism in connection with said pump including a rod extending upwardly therefrom and having its upper end hooked to extend around the upper portion of said rotatable shaft, a cam projecting from



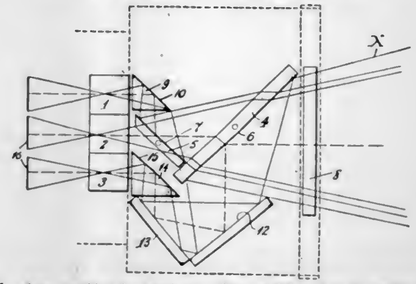
the inner surface of said hooked end, and cam mechanism on said rotatable shaft cooperable with the cam on said hooked end to support the upper end of the rod and automatically operate said rod and actuating mechanism when the shaft is rotated, said pump when actuated being adapted to draw in a charge of oil from the reservoir and deliver the same into said conduit.

2,167,452
MACHINE FOR ATTACHING HANDLE HANGERS
Eugene D. Hanset, Portland, Oreg.
Application January 19, 1937, Serial No. 121,273
3 Claims. (Cl. 140—93)



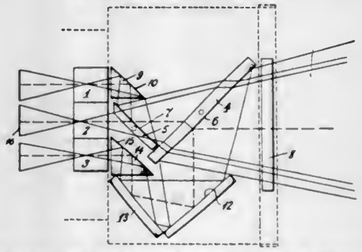
1. A machine for applying hangers to handles comprising a head, a horizontal channelway in the head, centralizing blades movable transversely of the channelway and adapted to centralize a handle with respect thereto, compression blades movable toward each other transversely of the channelway and adapted to compress a hanger into the handle, and means for simultaneously moving all of said blades into centralizing and compressing positions.

2,167,453
OPTICAL SYSTEM FOR COLOR PHOTOGRAPHY OR CINEMATOGRAPHY
Albert George Hillman, Amersham, England
Application January 19, 1938, Serial No. 185,744
In Great Britain January 22, 1937
9 Claims. (Cl. 88—1)



1. An optical system for wide angle photographic or cinematographic cameras comprising two outside objectives and a middle objective, said objectives being of relatively short focal length and relatively closely spaced and arranged to produce three images in the same focal plane, a pair of plane partially transmitting and partially reflecting mirrors situated in front of the middle objective and arranged one behind the other in intersecting planes, a single reflecting surface between said rear mirror and one of said outside objectives, the rear mirror being arranged to reflect part of the main beam of light by way of said reflecting surface through said outside objective, said front mirror being of substantially greater reflecting area than said rear mirror and sufficiently large as to extend substantially entirely over the areas of the said rear mirror and said single reflecting surface and its related objective, another reflecting surface laterally displaced outside of the entrance angle of the system and laterally displaced from the first mirror so as not to obstruct the wide angle beam entering the system and also laterally displaced outwardly with respect to the axis of said second outside objective so that the axis of the beam reflected by said surface is more remote from the axis of the main beam than is the axis of said second objective, and means for redirecting the beam formed by such latter part of the main beam back to the axis of said second outside objective for transmission therethrough.

2,167,454
OPTICAL SYSTEM FOR COLOR PHOTOGRAPHY OR CINEMATOGRAPHY
Albert George Hillman, Amersham, England
Application January 19, 1938, Serial No. 185,745
In Great Britain January 22, 1937
6 Claims. (Cl. 88—1)



1. An optical system for producing a continuous

series of color constituent negative images along a cinematographic film comprising two outside filters and a medial filter, said filters being of different color and light-transmitting power, means to divide a beam of light into a middle and two outside component beams all of unequal intensity and means for directing said outside beams through said outside filters for the purpose of producing said color constituent images along the film, a carrier for said dividing and directing means and a mount for said carrier, said carrier being rotatable about said mount and relatively to said filters through 180° so as to reverse the positions of said means for directing the outside component beams in relation to the position of the outside filters, and means for determining the rotation in either direction to such angle.

2,167,455

METHOD AND MEANS FOR INCREASING THE STRENGTH OF BENTONITIC CLAY GELS

Winfred B. Hirschmann, Chicago, Ill., assignor, by mesne assignments, to American Colloid Co., Lead, S. Dak., a corporation of South Dakota

No Drawing. Application November 18, 1936, Serial No. 111,428
11 Claims. (Cl. 252—6)

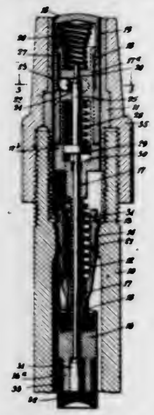
1. As a new product of manufacture, high gelling bentonitic clay comprising a mixture of bentonitic clay having incorporated therewith in a substantially dry state, a high alumina cement containing mono-calcium aluminate as a principal ingredient and having a slower rate of reaction or solution in water than the rate of dispersion of the bentonitic clay in water of the same temperature.

2,167,456

PRESSURE SIGNAL

William J. Hooper, Elsah, Ill.

Application August 17, 1937, Serial No. 159,447
13 Claims. (Cl. 116—34)



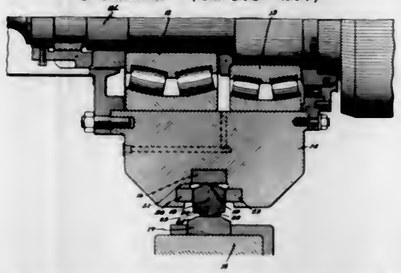
2. A pressure signal and fluid introduction valve structure comprising, in combination, a valve casing to be mounted in communication with the interior of a chamber adapted to contain fluid under pressure, a valve seat in said casing, a valve normally engaging said seat to close said casing, a pressure signal located outwardly from said valve seat, means to operate said pressure signal to warning position, a movable membrane carried with said valve in a position to be in fluid communication at all times with the interior of the chamber when the device is mounted thereon, latching means to prevent operation of said signal operating means, and releasing means operated by movement of said membrane to release said latching means upon movement of said membrane in response to pressure of a predetermined amount when obtained in the chamber.

2,167,457

BEARING HOUSING SUPPORT

Axel Leufvén, Schweinfurt, Germany, assignor to Aktiebolaget Svenska Kullagerfabriken, Goteborg, Sweden, a corporation of Sweden

Application September 11, 1937, Serial No. 163,367
In Germany September 15, 1936
8 Claims. (Cl. 308—207)



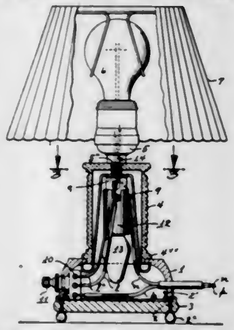
1. A bearing housing support of the kind specified, comprising a single body situated between a surface on the housing and a surface on a supporting member and arranged to support the load on the bearing, in which both of the pair of contacting surfaces are relatively curved to provide a single line of contact between the body and the housing, and the body and the supporting member, so as to allow tilting and axial displacement of the bearing housing, and the conformity of the curvatures between the two surfaces of each pair is closer than that of a plane surface in contact with a ball or roller of the same height as the body.

2,167,458

COMBINATION ELECTRIC LAMP

Benjamin R. Lieberman, Brooklyn, N. Y.

Application December 23, 1938, Serial No. 247,383
2 Claims. (Cl. 240—81)



1. In a combination lamp, a hollow base member having an aperture at its top and passageways for an electric wire feed and for switch-operating means, of a closure plate for the bottom of said base member, a switch device in said base member, a standard rising from the base

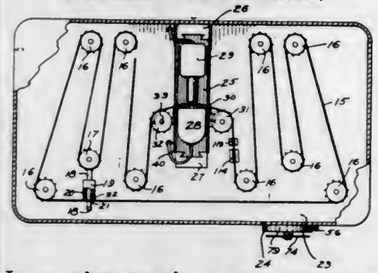
member and adapted for the passage of light from within the same, a hollow stem passing upwardly through the standard, a spring clamp device carried by said stem and having retractable hooked ends adapted to spring over into contact with the inner upper wall of the base member, the standard being formed with a flange abutting the top of the base member, two lamp sockets carried by said stem, one projecting downwardly within the standard and one projected upwardly above the standard, and wiring led into the standard and connected to the two sockets and said switch device.

2,167,459

PHONOGRAPH

John Robert Long, Washington, Ind., assignor of forty-nine one-hundredths to John T. Reinsel, Washington, Ind.

Application August 23, 1937, Serial No. 160,386
8 Claims. (Cl. 179—100.3)



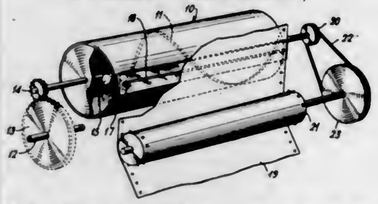
4. In a phonograph, a plurality of sound records, means electrically reproducing sound from the records including a head relatively shiftable with said records, electro-magnetic means, determining the relative location between said head and said records, and means selectively operating said electro-magnetic means, and location selecting means comprising a rotatable dial carrying finger abutments corresponding to the locations, a stop in the path of the finger to limit dial rotation, electrical switch means operated by dial rotation, and an electrical circuit including said electro-magnetic means and said switch means, an electro-magnetic stop for retaining said dial in the selected position, switch means rendering said magnetic stop operative in each of the dial selected positions, and a switch actuated upon predetermined travel of said records rendering said magnetic stop means inactive.

2,167,460

FACSIMILE REPRODUCING DEVICE

Richard E. Mathes, Westfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application February 17, 1938, Serial No. 190,930
3 Claims. (Cl. 178—7.4)



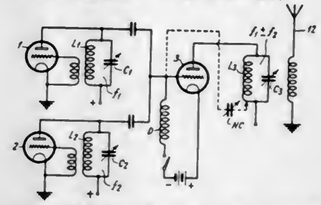
1. A facsimile reproducer comprising a light sensitive medium, a glass cylindrical member having a spirally shaped optical slot therein formed of quartz, an ultra violet light producing member inside of said cylindrical member adapted to reproduce modulated electric waves as modulated ultra violet light, an elongated stationary member having a linear optical slot of elementary width mounted immediately adjacent said cylindrical member, means for rotating said cylindrical member, and means for passing said recording medium across said stationary member in a direction perpendicular to the optical slot on said stationary member.

2,167,461

TELEGRAPHY

Herbert Muth, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application June 2, 1937, Serial No. 145,959
In Germany February 1, 1936
2 Claims. (Cl. 178—66)



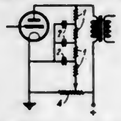
1. In means for producing high frequency impulses of short and substantially uniform duration, a plurality of sources of high frequency wave energy, a utilization circuit, an electron discharge tube amplifier having input and output electrodes, means coupling said input electrodes to said sources of high frequency wave energy whereby said high frequency wave energies are impressed thereon to be beat against each other therein, circuit means, tuned to respond only to a frequency resulting from said beating action, coupled to said output electrodes and to said utilization circuit whereby waves of said frequency resulting from said beating action only reach said utilization circuit, and means including a key and a source of potential connected with the electrodes of said tube to key said tube on and off whereby high frequency wave impulses of short and substantially constant duration are transferred by said output circuit to said utilization circuit.

2,167,462

VARIABLE ELECTRIC FILTER

Rudolf Rechnitzer, Budapest, Hungary, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

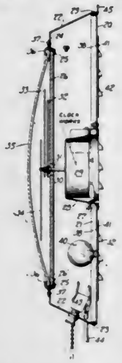
Application March 4, 1937, Serial No. 128,959
In Germany March 5, 1936
9 Claims. (Cl. 179—1)



1. In an audio frequency transmission system including means to connect the same to a source of audio frequency voltage and an audio frequency utilizing load, an electrical network for regulating the audio frequency transmission between the source and the load, said network in-

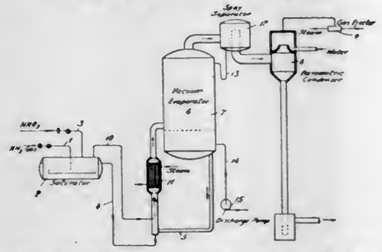
cluding a filter unit provided with a resistance element the alternating current resistance of which is a function of the direct current component of current passing through it, a source of direct current connected across said last named resistance element and means for controlling the amount of current passing from said source through the last named resistance element.

2,167,463
ILLUMINATED CLOCK
Ramsay G. Regester, Philadelphia, Pa., assignor to Gill Glass & Fixture Company, Philadelphia, Pa., a corporation of Delaware
Application April 27, 1938, Serial No. 204,560
3 Claims. (Cl. 240—2.1)



1. An illuminated clock comprising a housing having a centrally apertured back wall, side walls, and an apertured front wall, a translucent plate carried in the aperture in the front wall, a transparent cover about the translucent plate, a clock having hands disposed between the cover and the translucent plate, a rearwardly opening receptacle for the driving mechanism secured in the aperture in the back wall, and driving mechanism behind the plate, and lamps enclosed in the casing for illuminating the plate from the rear.

2,167,464
MANUFACTURE OF AMMONIUM NITRATE
Donald A. Rogers, Petersburg, Va., and Charles W. Brown, Yonkers, N. Y., assignors to The Solvay Process Company, New York, N. Y., a corporation of New York
Application May 18, 1937, Serial No. 143,260
6 Claims. (Cl. 23—103)



1. The process for the production of ammonium nitrate, which comprises continuously reacting gaseous ammonia and aqueous nitric acid under a pressure such that the solution of ammonium nitrate produced is boiled by the heat of the reaction and water vapor accompanied by substantial proportions of nitrogen compounds escapes from the solution and a concentrated aqueous solution of ammonium nitrate is produced, continuously withdrawing hot aqueous ammonium nitrate solution from the zone of reaction, introducing the withdrawn solution into a cyclic system in which the solution is circulated through an evaporating chamber and a means for contacting a liquid and a gas, in said evaporating chamber subjecting the solution circulating therethrough to a pressure at which water is evaporated from the solution to concentrate and cool it, circulating thus cooled solution from the evaporating chamber to said means for contacting a liquid and a gas, introducing into said means the vapors and fumes evolved from said boiling ammonium nitrate solution and contacting them therein with said cooled solution at a pressure greater than that in said evaporator, thereby condensing said vapors and fumes in the solution and heating the solution, and continuously withdrawing from said cyclic system concentrated ammonium nitrate solution.

2,167,465
PENCIL
Edwin A. Sell, Belleville, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey
Application May 6, 1939, Serial No. 272,113
3 Claims. (Cl. 120—84)

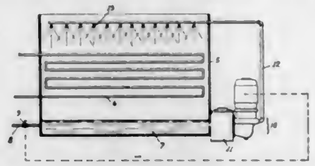


3. Means for indicating the degree of hardness of the lead of a mechanical pencil comprising a body member, said body member having a series of legends perimetrically spaced thereon and a resilient shiftable clasp adapted to fit over the body member consisting of a split band having the ends thereof spaced apart a distance sufficient to expose a single indicating legend between said ends.

2,167,466
FLUID CIRCULATING SYSTEM
Samuel F. Shawhan, Maplewood, and Carlyle M. Ashley, Summit, N. J., assignors, by mesne assignments, to Carrier Corporation, Newark, N. J., a corporation of Delaware
Application January 22, 1936, Serial No. 60,198
1 Claim. (Cl. 261—36)

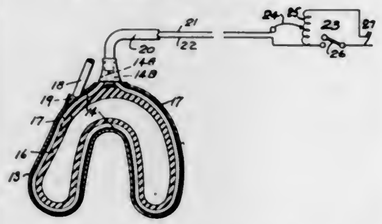
In a gas and liquid contact apparatus of the character described, a casing through which there is adapted to be circulated air which may contain impurities such as dirt particles and acid fumes, means for discharging liquid in contact

with said air within said casing, a sump formed at the bottom of said casing for collecting liquid which has contacted with said air, a pump adapted to withdraw liquid from said sump and to supply said withdrawn liquid to said liquid discharge means, said pump being positioned externally of said casing and at a level approximating that of the desired liquid level in said sump, a supply line for supplying liquid to said sump, said pump having an upper section and a lower section and having a partition member separating said upper and lower sections, an impeller in the lower section of said pump, driving means for said impeller positioned above said partition means, a driving shaft connecting said driving means and said impeller, a valve in said liquid supply line for controlling liquid flow therethrough, means responsive to the operation of said driving means for controlling said valve and adapted to cause opening of said valve when said driving means is operative, a first opening formed in the upper section of said



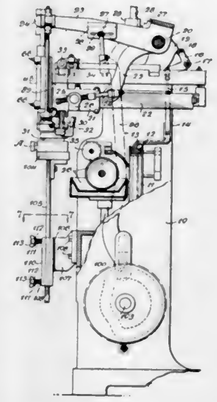
pump and communicating with said sump through the interior of the upper pump section and said first opening, means providing communication between said first opening and said sump, the bottom of said first opening being lower than the liquid level in said sump whereby to form a liquid seal upon the lower section of said pump to avoid cavitation therein, the bottom of said second opening being formed at a higher level than the bottom of said first opening and being adapted to discharge fluid from the system whenever the liquid level in the upper pump section rises above the lowest point of said second opening, whereby liquid may be supplied to said sump at a greater rate than that at which the circulated liquid is evaporated or otherwise carried off by the circulated air, and whereby there may be effected a constant and gradual change of the liquid circulated through the apparatus and a constant and gradual elimination from the system of impurities and the like transferred from said air to said circulated liquid.

2,167,467
MEANS AND METHOD FOR TREATING PERIODONTAL DISEASES
James L. Sisson, Earle, Ark.
Application August 10, 1936, Serial No. 95,089
9 Claims. (Cl. 128—402)



1. The method of treating periodontal diseases, which comprises conforming a heat transferring material of uniform thickness closely against the tissues to be treated, applying heat at the uniform distance from the tissues thus established, and raising the temperature of such material slowly from body temperature to between 120 and 140 degrees Fahrenheit and maintaining such temperature for at least thirty minutes.

2,167,468
LABELING MACHINE
George W. von Hofe, Bound Brook, N. J., assignor to New Jersey Machine Corporation, Hoboken, N. J., a corporation of New Jersey
Application June 30, 1937, Serial No. 151,141
14 Claims. (Cl. 216—55)



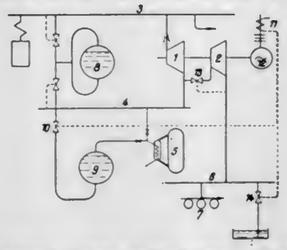
9. A mechanical unit comprising yielding pressure means guided in an operative path, associated wiping means guided in an adjacent operative path, and an operative connection between said wiping means and pressure means whereby the initial operative movements of the latter are transmitted to said wiping means to shift the latter relatively to its operative path, and whereby the continued operative movements of said pressure means are caused to shift said wiping means lengthwise of its operative path in an operative cycle.

11. In a labeling machine, supporting means adjustable to varying set positions for supporting articles to be labeled, label applying means movable toward and away from said supporting means for applying labels under pressure to the articles thereon in any of said set positions, and yielding gripping means effective on one of said previously mentioned means for resisting normal labeling pressures in any of said set positions, and for enabling said one of said means to yield under abnormal pressure developed on said articles by said applying means in any of said set positions.

2,167,469
STEAM PLANT
Carl Gunnar Wallin, Stockholm, Sweden
Application January 29, 1937, Serial No. 122,946
In Sweden January 21, 1936
7 Claims. (Cl. 290—2)

1. In a steam plant, a source of steam, a back pressure steam engine, a consumer connected to receive steam from the exhaust of said engine, an accumulator connected to the exhaust of said

engine, a valve between said engine and said accumulator, and means responsive to decreasing

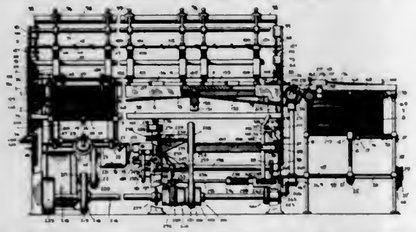


and increasing power output, respectively, of said engine to open and close, respectively, said valve.

2,167,470
AUTOMATIC COLLATOR

Lloyd L. West, Wichita, Kans., assignor of forty-nine per cent to John B. McKay, Wichita, Kans.

Application December 4, 1937, Serial No. 178,078
30 Claims. (Cl. 270—58)

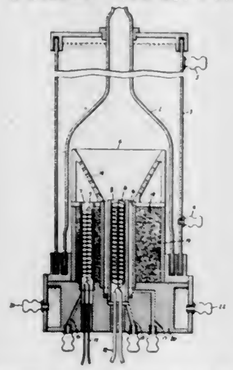


1. In an automatic collator of the class described, a plurality of sheet feeders, a delivery means adapted to indirectly receive sheets from the feeders, a sheet receiver for collecting the sheets from the delivery means, a sheet hold down tape normally riding on the delivery means for retaining the sheets in fixed relation thereto, and means for moving said hold down tape away from the delivery means during deposit of sheets thereon.

2,167,471
GAS REACTION METHOD

Rudolf Auerbach, Neuenhagen, Berlin, Germany, assignor to General Electric Company, a corporation of New York

Application September 25, 1935, Serial No. 42,106
In Germany September 25, 1934
3 Claims. (Cl. 260—679)

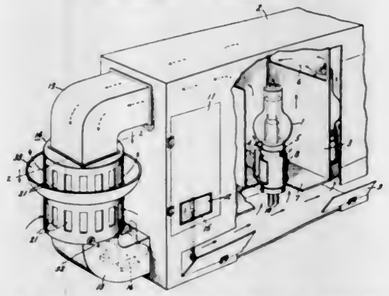


3. A process of converting a saturated hydrocarbon such as methane and the like to an unsaturated hydrocarbon such as acetylene, ethylene and the like which consists in heating a gas comprising such saturated hydrocarbon below the required reaction temperature, separately heating molecular hydrogen at a temperature sufficient to convert it to atomic state, the atomic hydrogen thereby obtained being at a temperature above the temperature of reacting the said saturated hydrocarbon, and mixing with the first-named gas the more highly heated atomic hydrogen in an amount sufficient to raise the said gas to reaction temperature and to produce the desired conversion, said conversion being facilitated by the heat released by the recombination of the atomic hydrogen to molecular hydrogen.

2,167,472
THERMOSTATIC CONTROL OF ELECTRON DISCHARGE APPARATUS

Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application November 18, 1936, Serial No. 111,442
2 Claims. (Cl. 236—49)



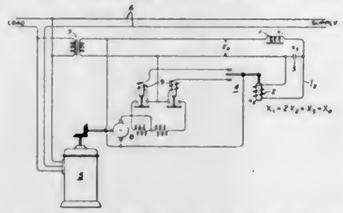
1. A temperature regulator for an electron discharge device, comprising an enclosure for said device, inlet and outlet fluid ports in said enclosure, a conduit connecting said ports together, and a fluid valve in said conduit, said valve including a casing containing a pair of rotatable cylinders, said casing and cylinders being provided with peripheral openings which may be caused to register with one another, said casing and one of said cylinders being provided with transverse members having openings which are caused to register with one another when said peripheral openings are out of register, and means for rotating said cylinders to cause said openings either to register or to be moved out of register with one another.

2,167,473
ELECTRORESPONSIVE CIRCUITS

Wayne E. Birchard, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application July 3, 1937, Serial No. 151,892
Renewed March 29, 1939
9 Claims. (Cl. 175—320)

1. In combination, an electric circuit, means for deriving therefrom an alternating potential proportional to a variable quantity associated with said circuit, a monocyclic network having input terminals connected to be energized by said means, said network having output terminals, and electroresponsive means connected to said output terminals, said network comprising opposite sign reactance elements having substantially equal ohmic reactance values at a predetermined nominal frequency at which said network is adapted to be energized, said electroresponsive



means having an effective reactance which is substantially one-half the reactance of said network elements at said frequency.

2,167,474
SHOCK ABSORBER

Joseph Chudner, Brooklyn, N. Y.

Application August 13, 1938, Serial No. 224,743
5 Claims. (Cl. 188—102)

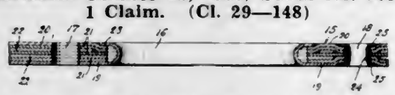


1. A stop mechanism comprising a shell having a peripheral belt groove and provided with an annular chamber inside the shell, a series of arc-shaped leaf springs positioned in said shell and arranged in a group fixed at one point to the shell, a ring positioned in said group of springs and secured thereto at one point, and an apertured lug projecting substantially to the wall of said chamber, said lug having flaring end portions projecting between the ends of said group of springs and said ring whereby the flaring end portions of said springs will soften the impact of the stopping operation.

2,167,475
METHOD OF MAKING GASKETS

James G. Dickson, Glencoe, Ill., assignor to Dickson Gasket Company, Chicago, Ill., a corporation of Illinois

Application October 12, 1936, Serial No. 105,207
1 Claim. (Cl. 29—148)

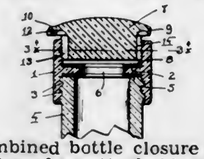


The method of manufacturing gaskets for engines and the like which consists in assembling a plurality of thin, flexible metallic laminae of similar size and shape in register with one another and with a cover plate in a pack, bending a portion of the cover plate toward the pack into a position intersecting the plane of the pack and then bending an extended portion of the cover plate beyond the portion thus bent into parallelism with the pack so that it rests against the side of the pack opposed to the cover plate, then applying pressure to the flanged portion of the cover plate thus formed until the flange has been forced into the body of the pack a distance substantially equal to the thickness of the flange such that the outer surface of the flange is in alignment with the adjacent surface of the remainder of the pack.

2,167,476
COMBINED BOTTLE CLOSURE AND LIQUID DISPENSER

Bernhard Diefenbach, Rochester, N. Y.

Application November 26, 1937, Serial No. 176,435
8 Claims. (Cl. 221—148)

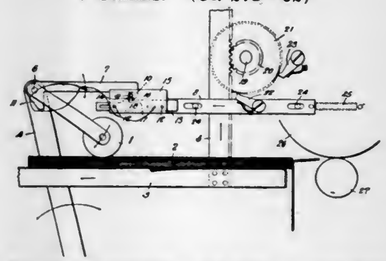


1. In a combined bottle closure and dispenser the combination of an attachable closure member adapted to be fastened to the neck of a bottle or other container and having a restricting discharge opening therein, a cap member movable in the top of said closure member so as to open and close the restricted discharge opening within the closure member, an overhanging projection at the top of said cap member, an air vent and a liquid outlet duct partially extending thru said cap member offset from said discharge opening and a substantially horizontal extension at the end of said outlet duct leading to the edge of the projection at the top of said cap member.

2,167,477
PRINTING AND DUPLICATING MACHINE

Fritz Glunz, Hanover, Germany

Application June 29, 1938, Serial No. 216,458
In Germany July 10, 1937
7 Claims. (Cl. 271—62)



1. An office printing machine comprising a table for supporting a pile of sheets to be printed, a feed roller resting on the uppermost sheet of the pile, means for reciprocating the feed roller, means for raising the table as the number of sheets supported on it is reduced, an actuating member for said table-raising means, an intermediate member movable on said actuating member, a member which is connected to and reciprocated with said feed roller and engages said intermediate member owing to the lowering of the feed roller as the sheets are withdrawn, a coupling member on said actuating member, and means whereby said coupling member is brought into operative engagement with said reciprocated member when said intermediate member is moved

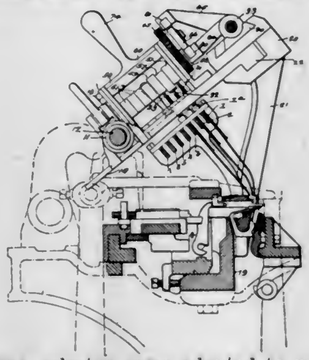
2,167,478
CARRIER OPERATING MECHANISM FOR FLAT KNITTING MACHINES

Frederick C. Good, Philadelphia, Pa.

Application May 7, 1935, Serial No. 20,282
20 Claims. (Cl. 66—127)

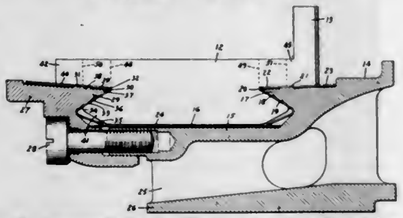
19. In a flat hosiery knitting machine provided with a reciprocable friction rod and a multiplicity of carrier rods, carrier rod driving mechanism comprising a friction device frictionally

engaged with said friction rod, carrier rod driving means carried by said friction device and including a series of twin plungers each including a pair of independently movable sections, means upon each carrier rod for establishing a driving connection with said plunger sections of the driv-



ing means, selector cams adapted to move with said friction device and operated from a power member of the knitting machine, for selectively engaging and disengaging the plunger sections of said carrier rod driving means from the connecting means on the several carrier rods.

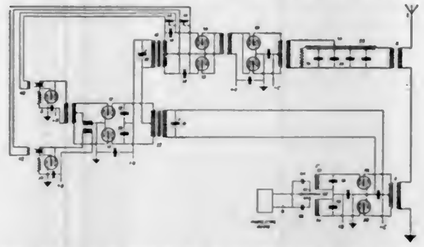
2,167,479
COMMUTATOR
Max R. Hanna, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application January 21, 1938, Serial No. 186,097
11 Claims. (Cl. 171—321)



1. A commutator including a plurality of commutator bars, each of said commutator bars having a wedge groove formed with an inner and outer wedge surface in an end thereof, and means including a clamping flange for securing said commutator bars in assembled relation, said clamping flange having a tapered inner wedge surface arranged to engage said inner commutator bar groove wedge surface and an outer relatively narrow tapered wedge shoulder arranged to engage said outer commutator bar groove wedge surface adjacent the center of pressure between said inner wedge surfaces.

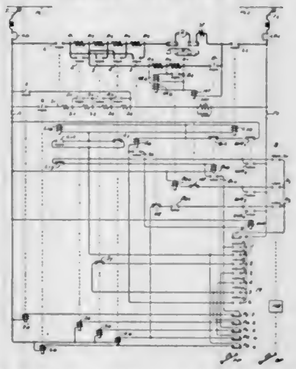
2,167,480
SIGNALING
Clarence W. Hansell, Rocky Point, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application November 2, 1927, Serial No. 230,438
44 Claims. (Cl. 250—8)

1. The method of synchronizing alternating electrical energy locally generated at a receiver with that from a transmitter which is signaling by phase reversal which includes obtaining the second harmonic of each of these energies and synchronizing the second harmonic of the re-



ceiver with the second harmonic of the received signal.

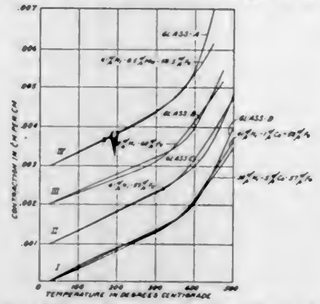
2,167,481
ELECTRIC MOTOR CONTROL SYSTEM
Hammond C. Hastings and Frederick F. Usher, Rugby, England, assignors to General Electric Company, a corporation of New York
Application December 28, 1938, Serial No. 248,116
In Great Britain January 19, 1938
11 Claims. (Cl. 172—179)



1. A system of control for an electrically propelled vehicle comprising electric motor acceleration, regenerative braking and rheostatic braking means, a master controller for said means for controlling the acceleration and regenerative braking of said vehicle, a mechanical brake for said vehicle, another controller for said means for effecting rheostatic braking and for applying said mechanical brake, and means electrically interrelating said controllers whereby when said master controller is moved to effect regenerative braking, movement of said other controller effects mechanical braking only of said vehicle, and when said master controller is in a predetermined position movement of said other controller effects combined mechanical and rheostatic braking of said vehicle.

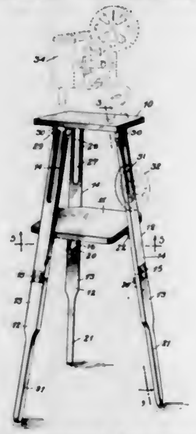
2,167,482
GLASS-TO-METAL SEAL
Albert W. Hull and Emmett E. Burger, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application May 15, 1936, Serial No. 79,956
Renewed April 15, 1939
5 Claims. (Cl. 49—81)

1. A glass-to-metal seal comprising a glass which contains from about 50 to 64 per cent SiO_2, from about 29 to 40 per cent B_2O_3, and from about 2 to 7 per cent of an alkali material in combination with an alloy consisting essentially of from about 39 to 43 per cent nickel with a complementary proportion of iron, said glass and said



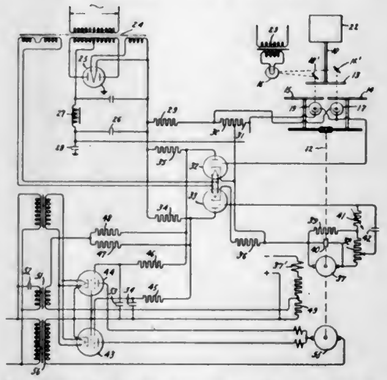
alloy having thermal contraction characteristics which substantially correspond at temperatures both above and below the transformation zone.

2,167,483
SUPPORTING STAND
Charles F. Kraemer, High Bridge, N. J.
Application October 28, 1938, Serial No. 237,381
1 Claim. (Cl. 211—149)



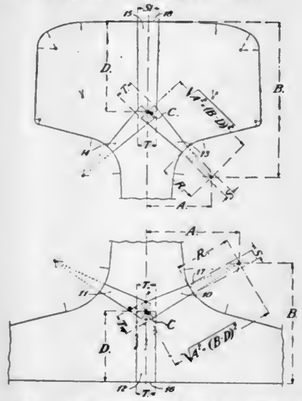
A stand for supporting a moving picture projector or the like comprising three legs, each provided with a bifurcated end of a resilient character and having pivotal pins extending laterally from the two sides of the bifurcated ends, an upper platform provided with U-shaped brackets on its lower surface having openings therein to receive the pivotal pins on the bifurcated ends of the legs so as to releasably attach the legs to the upper platform, a lower platform and means for releasably attaching the lower platform to the legs a short distance beneath the upper platform comprising brackets attached to the legs and having substantially horizontally disposed portions with slotted openings formed therein and angle irons attached to the lower platform and provided with tongues adapted to project through the slots in the brackets, the upper and lower platforms and the attaching means for the legs being so arranged that when the stand is assembled the legs diverge from the top towards the bottom thereof so as to form a substantially triangular base of greater area than the platforms and so that the legs engage and exert pressure against the lower platform adjacent the upper surface thereof so as to firmly hold it in position.

2,167,484
FOLLOW-UP DEVICE
Theodore M. Berry, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 29, 1938, Serial No. 237,793
8 Claims. (Cl. 172—239)



1. In a control system, a light source, a pair of light-sensitive devices, two mechanically independent rotary systems, polarized light screens rotated by said rotary systems, there being a screen driven by each system interposed between the light source and one of the light-sensitive devices, and a screen driven by each system interposed between the light source and the other light-sensitive device, the polarizing arrangement being such that as one rotary system rotates relative to the other in one direction of rotation, the light falling on one light-sensitive device increases and the light falling on the other light-sensitive device decreases, motor means for rotating one of said rotary systems and means responsive to said light-sensitive devices for controlling said motor so that the rotary system driven by it will follow the rotary movement of the other rotary system.

2,167,485
RAIL COOLING
Paul W. Leisner, Evanston, and Bernard M. Lockard, Oak Park, Ill.
Application April 20, 1937, Serial No. 137,978
7 Claims. (Cl. 238—125)



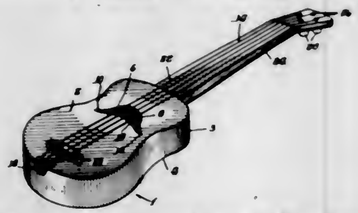
1. A rail for railroad and like uses, said rail

having a head, a base and a connecting web, said head being wider and thinner than a standard rail of like weight, the radius of the fillet connecting the rail web and head being increased above that of said standard rail, and the radius of the fillet connecting the rail web and base being decreased below that of said standard rail, whereby to provide a rail having equalized cooling rates in the head and base thereof, and said rail being otherwise of substantially the same general shape as that of said standard rail.

2,167,486
SOUNDING BOARD FOR STRINGED INSTRUMENTS

Henry Moertel, Chicago, Ill.

Application March 6, 1937, Serial No. 129,409
4 Claims. (Cl. 84—267)

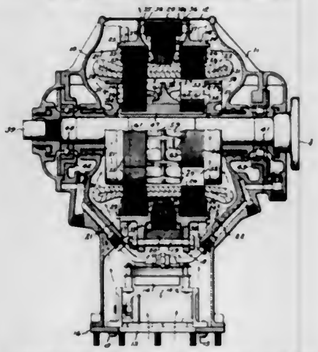


1. For use in a stringed musical instrument, a relatively flat sounding board having an aperture extending generally transversely across the board, said aperture being of substantial width adjacent its mid-portion and tapering to form relatively narrow extremities adjacent the opposite edges of the board, one edge of the opening being concave and the other being convex, said aperture providing major and minor sounding board sections, said major section providing said convex edge and forming a tongue-shaped portion extending into said aperture and cooperating with the instrument to vibrate freely under the influence of the strings.

2,167,487
DYNAMO-ELECTRIC MACHINE

Sanford A. Moss, Lynn, Mass., assignor to General Electric Company, a corporation of New York

Application July 31, 1937, Serial No. 156,742
4 Claims. (Cl. 171—252)

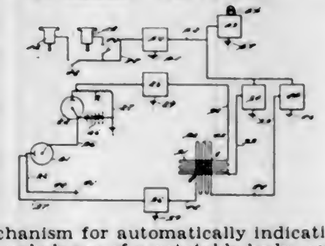


1. A dynamo-electric machine having a stationary member and a rotatable member arranged to provide a ventilating impeller fan for said dynamo-electric machine, sets of salient pole pieces on said rotatable member having axially extending ventilating passages extending between said pole pieces, ventilating passages through said stationary member, an axial air gap extending between said stationary member and said rotatable member, intake ventilating vanes arranged on said rotatable member in communication with each outer end of said rotatable member axial passages and arranged to provide circumferentially extending passages between said salient pole pieces and adjacent vanes communicating with said rotatable member axial passages, and discharge vanes associated with said rotatable member and arranged intermediate said sets of salient pole pieces in communication with all of said ventilating passages.

2,167,488
MECHANISM FOR AUTOMATICALLY DETERMINING AND INDICATING UNBALANCE IN ROTATABLE BODIES

Bengt Erik Ohlson, Philadelphia, Pa., assignor to Tinius Olsen Testing Machine Company, Philadelphia, Pa., a corporation of Pennsylvania

Application July 29, 1936, Serial No. 93,200
12 Claims. (Cl. 73—51)

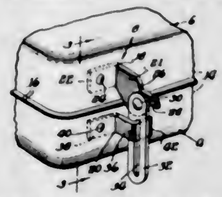


1. Mechanism for automatically indicating the angle of unbalance of a rotatable body, comprising a disc driven in definite speed relationship with the body and having one face divided into a reflecting and a non-reflecting surface, light sources spaced 90° apart, photo-tubes 90° out of phase receiving light reflected to them from said light sources by said disc, means to amplify voltages of said photo-tube, an angle indicator having a coil with windings spaced 90° apart receiving the amplified voltage, rectifiers to which voltages of said windings pass, electric pick-ups actuated by unbalanced forces in the rotating body, and means to amplify the voltage of a selected pick-up, and a rectifier electrically connected with the other rectifier and to which the amplified voltage of a selected pick-up is led.

2,167,489
ELECTRICAL APPLIANCE HINGE

Fernando L. Renga, Chicago, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois

Application May 23, 1938, Serial No. 209,480
6 Claims. (Cl. 16—179)

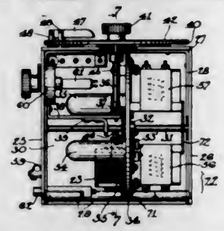


1. In a hinge construction for an electric heating appliance comprising a pair of heating sections, said hinge means comprising a bracket adapted to be secured to each of said sections and a slotted member receiving one of said brackets and pivotally connected to the other of said brackets for maintaining said sections in parallel relation during raising of one section relative to the other and for permitting swinging of said sections relatively, the slot engaging bracket having a flat elongated wall section engaging within said slot over a substantial longitudinal portion of said slot to prevent relative rotation of the slotted element with respect thereto, whereby to provide a hinge construction properly alining said sections in predetermined closing relationship at all times.

2,167,490
APPARATUS FOR LOCATING CONCEALED CONDUCTIVE BODIES

Thomas Ryan, Milwaukee, Wis., assignor of two-fifths to Henry B. Burr, Milwaukee, Wis.

Application May 7, 1937, Serial No. 141,218
8 Claims. (Cl. 175—183)



1. Apparatus for locating a concealed electrically conducting body, comprising an exploring coil in which a voltage is induced by an alternating magnetic field, a support on which said coil is rotatably mounted, the magnetic axis of said coil being transverse to its rotational axis, and means including a vacuum tube amplifier for indicating the induced voltage, said amplifier including an inductive coupling device rotatable with said exploring coil to prevent false pick-up by said device.

2,167,491
LINK

John J. Schoeninger, Forest Hills, Long Island, N. Y.

Application January 12, 1939, Serial No. 250,554
4 Claims. (Cl. 59—79)



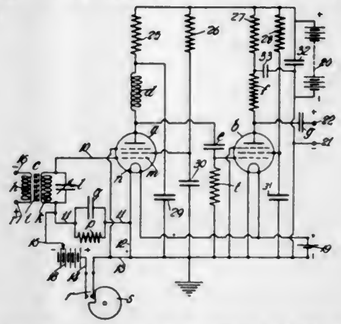
1. A link of the character described comprising a pair of elongated link sections interlocked, one of said sections being provided with a pair of notches at the top and bottom at one end, both of said sections being U-shaped in cross section and arranged so that the edges of one section will fit into the notches of the other section, and a spring arranged within said sections, said spring acting against one end of each of said sections to cause the sections to normally remain in telescoped relation.

2,167,492
METHOD OF ECHO SOUNDING AND MEANS THEREFOR

Donald Orr Sproule, London, England, assignor of one-half to Henry Hughes & Son, Limited, London, England

Application December 14, 1935, Serial No. 54,378
In Great Britain January 14, 1935
4 Claims. (Cl. 177—386)

1. In a multi stage audio frequency thermionic amplifier for echo sounding apparatus means for increasing the potential of the grid bias of the thermionic valve in the first stage of said amplifier at the moment of emission of each sound pulse insufficiently to obscure an echo pulse signal, means for allowing said grid bias potential to decrease gradually as a function of

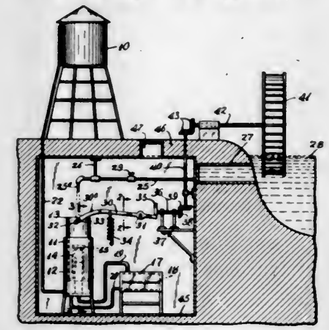


time during the echo time period of each sound pulse and a voltage surge intercepting filter between the first and second stages.

2,167,493
WATER PUMP DEVICE

John F. Sutcliff, New York, N. Y.

Application December 9, 1938, Serial No. 244,747
6 Claims. (Cl. 103—55)



1. A water pump device, comprising a high elevation tank for storing water to be subsequently used for power or other purposes, a low elevation cylinder having a closed bottom with a vertically projecting tube, a hollow piston engaging into said cylinder and having a closed bottom with a vertically projecting tube slidably and intimately engaged over said tube, a valve closing said outer tube, means for opening said valve in the down position of said piston, a tank with a filter below said valve, a pipe from the bottom of said inner tube to said tank with the filter, a pipe from said tank with the filter to the bottom of said cylinder and having a one way valve permitting the passage of water to said cylinder, a pipe from said cylinder to said high elevational tank and having a one way valve, a water supply to said piston, and natural force means for assisting in reciprocating said piston.

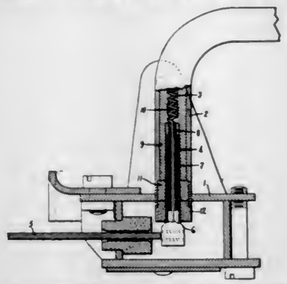
2,167,494
ELECTRIC HEATER

Charles Sykes, Timperley, and William Needham, Sale, England, assignors to General Electric Company, a corporation of New York

Application February 16, 1937, Serial No. 126,044
In Great Britain February 28, 1936
3 Claims. (Cl. 201—67)

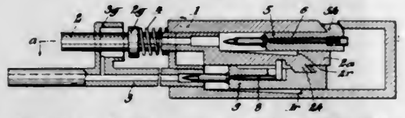
2. An electric heating element comprising a

helical resistor member having a straight end portion, a sheath enclosing said resistor member and insulated therefrom by electrically insulating material, the said end portion of the resistor member being surrounded by a length of metallic tubing constituting a terminal and spaced from the sheath, means connecting the outer end of said straight end portion with the outer end of said metallic tubing, an electrically insulating



sleeve interposed between the turns of said helical resistance and the inner end of said tubing surrounding the straight end portion of said resistor member so as to prevent the turns of said resistor member from contacting the adjacent end of said metallic tubing, said insulating material surrounding the resistance member and also the terminal tube for a portion of its length, and holding said insulating sleeve between said turns and said tubing.

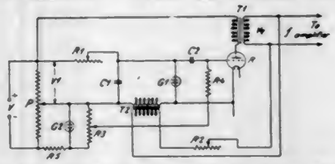
2,167,495
FIREARM
Heinrich Wimmersperg, Vienna, Austria
Application January 9, 1937, Serial No. 119,784
In Austria January 22, 1936
8 Claims. (Cl. 89—2)



1. A unitary fire-arm, comprising a first barrel, a second barrel, means to move said second barrel in a forward direction beyond its firing position after each firing thereof, loading means for loading said second barrel in a position different from its firing position, loading means for loading said first barrel while said second barrel is in a position different from its foremost position, breech mechanisms for both barrels, the breech mechanism for the second barrel being arranged in the rear portion of the path of the second barrel, means associated with the second barrel adapted upon forward movement of the same to bring the breech mechanism of the first barrel into its operative position, means for firing the first barrel when the second barrel is in approximately its foremost position, and means for firing the second barrel when this barrel is in approximately its rearmost position.

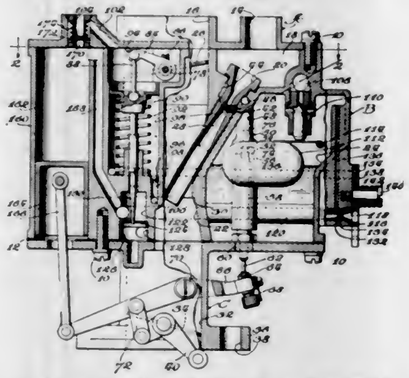
2,167,496
GLOW DISCHARGE OSCILLATOR
Erwin Bauer, Mannheim, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application October 20, 1936, Serial No. 106,519½
In Germany October 9, 1935
4 Claims. (Cl. 250—36)

1. A glow discharge oscillator adapted to generate oscillations and comprising a glow tube, a source of variable voltage applied thereto and a discharge circuit therefor, means for deriving an alternating voltage from said oscillations and for applying this alternating voltage to said discharge circuit for counteracting the variations of voltage applied to said glow tube from said



source, and means included in said first mentioned means and variably responsive to changes in the voltage of said source to cause such alternating voltage to vary, the variations in said alternating voltage being of such value as to counteract frequency variations of said oscillator in response to said voltage changes.

2,167,497
CARBURETOR
Robert F. Bracke, Chicago, Ill.
Application April 18, 1936, Serial No. 75,049
7 Claims. (Cl. 261—72)

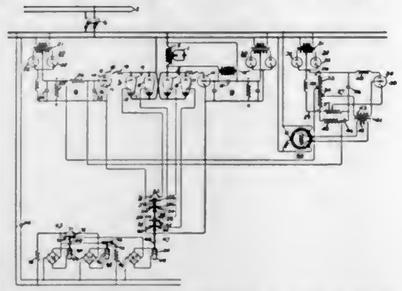


1. In a carburetor of the class described, the combination of a nozzle, a fuel chamber from which said nozzle is supplied, a mixing chamber into which said nozzle discharges, a booster for creating a suction in said fuel chamber, said booster having an outlet communicating with said mixing chamber through a duct, a throttle valve controlling communicattion between said mixing chamber and an intake manifold of an engine to which said carburetor is attached, an air pump discharging into said duct, and an operating connection between said air pump and said throttle valve.

2,167,498
ELECTRIC VALVE CIRCUIT
Dudley E. Chambers, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application March 29, 1938, Serial No. 198,656
6 Claims. (Cl. 250—27)

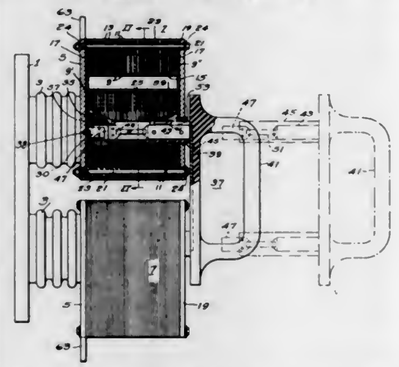
1. In combination, a supply circuit, a load circuit, an electric translating circuit interconnecting said circuits and including electric valve means having a plurality of discharge paths connected in parallel relation across the same points

of potential difference in said translating circuit and being connected to conduct current in the same direction, said electric valve means each being provided with a control member for initiating discharges in the associated discharge path, means for generating a voltage to energize the



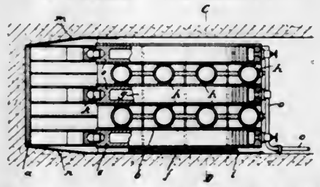
control members, and means for energizing the control members in a predetermined order to cause said discharge paths to conduct current in said order and including switching means having overlapping contacts to assure that one of the control members is always connected to said first mentioned means.

2,167,499
DISCONNECTING SWITCH
Robert C. Dickinson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 29, 1937, Serial No. 123,002
9 Claims. (Cl. 200—114)



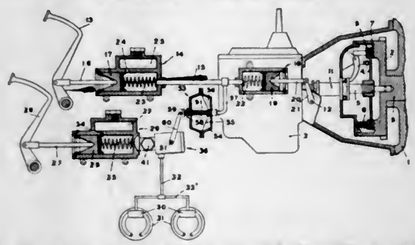
1. In a circuit interrupter, an arc extinguishing device having an arc chamber in which an arc may be drawn, said arc chamber being dimensioned to provide for substantial lateral movement of the arc therein, a stationary contact within said chamber, a movable contact member normally in contacting engagement with said stationary contact and adapted to be moved out of engagement with said stationary contact for establishing an arc within said chamber, said contact member having a fusible portion normally within said chamber and adapted to establish an arc therein upon the occurrence of predetermined current conditions and means of insulating material partially surrounding said fusible portion for causing the arc established by said fusible portion to be moved laterally within said arc chamber.

2,167,500
DITCH CUTTING DEVICE
Reinhold Dornfeld and Konrad Haage, Esslingen-on-the-Neckar, Germany
Application January 21, 1938, Serial No. 186,060
In Germany October 22, 1936
4 Claims. (Cl. 262—1)



1. A device for the driving of galleries and trenches in compressible soil comprising in combination, a wedge having a greatest cross-section substantially equal to the cross-section of the gallery or trench to be driven, a body to the rear of said wedge, pressure plates guided on the outside of said body and means forming part of said body for propelling said wedge so as to force it into the soil and for expanding said plates in a direction transversely to the direction of propulsion so as to force same against the walls of the trench or gallery and to provide an abutment for said wedge.

2,167,501
CLUTCH AND BRAKE CONTROL MECHANISM
Walter R. Freeman, University City, Burns Dick, Ferguson, and Werner F. Boldt, Overland, Mo., assignors to Wagner Electric Corporation, St. Louis, Mo., a corporation of Delaware
Application June 30, 1937, Serial No. 151,163
10 Claims. (Cl. 192—13)

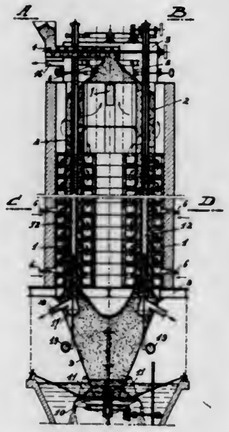


1. In a motor vehicle provided with braking mechanism, means associated with the braking mechanism for holding the brakes applied, a fluid pressure system comprising an operator-controlled source of pressure and a fluid motor for operating an element of the vehicle, and means governed by fluid pressure in said system for controlling said brake holding means, said last named means being independent of said motor.

2,167,502
HAIR RINSING PREPARATION
Russell R. Frew, Mercer Island, Wash., assignor, by mesne assignments, to Golden Glint Company, Inc., Seattle, Wash., a corporation of Washington
No Drawing. Application June 16, 1937, Serial No. 148,511
4 Claims. (Cl. 167—88)

4. A hair rinse including one of the group consisting of phthalic acid; potassium acid phthalate; furoic acid; and water soluble acid coal tar coloring matter.

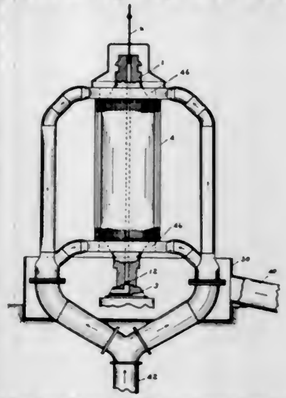
2,167,503
OVEN FOR HEAT TREATMENT OF SHALES, SCHISTS, SANDSTONES, AND THE LIKE
Franz Florent Raoul André Gilles, Uccle-Brussels, Belgium, assignor to "Société Générale de Fours à Coke, Systèmes Lecocq" Société Anonyme, Brussels, Belgium, a company
Application December 29, 1936, Serial No. 118,102
In France January 3, 1936
3 Claims. (Cl. 202—221)



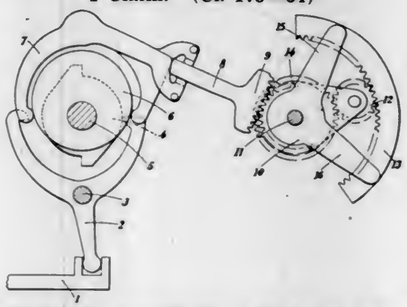
1. In an apparatus for the heat treatment of shales, schists, sandstones and the like for the extraction of volatile products, a hollow vertical distillation column comprising a plurality of superposed distillation chambers, each chamber having a lower portion with a cross-section gradually increasing towards the base and an upper portion of smaller height with a cross-section increasing towards the top of the chamber, a rotatable central tube extending vertically through said distillation column, means for rotating said central tube in one direction, projecting elements disposed on the outer surface of said rotating tube and spaced from the inner wall of the column, said elements being adapted to retard the descent of the material in the central portion of the column and to prevent arch-like agglomerations of the material from packing upon rotation of said tube, the latter being provided with holes through which the volatile products given off from the material can be withdrawn.

2,167,504
COOLING OF CYLINDRICAL BODIES
Raymond S. Gorman, Dormont, and Ralph E. Graham, Crafton, Pa., assignors to Clifford B. Ferree, Pittsburgh, Pa.
Application June 9, 1938, Serial No. 212,746
1 Claim. (Cl. 266—6)

Apparatus for applying to a heated cylindrical body of metal an inundating flood of cooling liquid, such apparatus consisting of a cylindrical cage of hollow, vertically extending, spaced-apart bars provided with inwardly and radially directed orifices, together with means for maintaining the bars flushed with liquid under pressure, the cage being adapted to surround and to stand at an interval from the surface of the vertically standing cylindrical body to be cooled, the bars of the cage being of oval shape in cross-section and being assembled with the major axes of the ovals extending in radial direction, the parts being so proportioned that quantities of liquid, injected through the orifices and impinging upon the surface of the cylindrical body, pass freely away between the bars, without glutting.



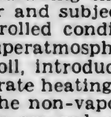
2,167,505
TRANSLATING MECHANISM
Ronald George Griffith, Upper Warlingham, England, assignor to Creed and Company Limited, Croydon, Surrey, England, a British company
Application April 6, 1935, Serial No. 15,051
In Great Britain April 9, 1934
1 Claim. (Cl. 178—34)



Telegraphic reproducing apparatus comprising an impulse recording member adapted to be moved into one or other of two positions, a detent lever, means for moving the said detent lever on each movement of said impulse recording member, a cam and driving means therefor, means for releasing said cam to allow it to be rotated for a half revolution only on each movement of said detent lever, a planet wheel, means responsive to the movement of the said cam to rotate said planet wheel by a predetermined amount, inner and outer sun members meshing with said planet wheel, an indicating member and means for moving said indicating member by a movement of said outer sun member.

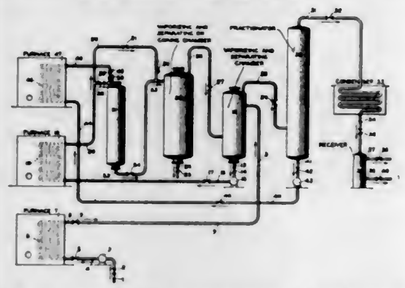
2,167,506
PIEZOELECTRIC APPARATUS
Theodor Haase, Hermsdorf, Thuringia, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany, a company
Application March 22, 1938, Serial No. 197,426
In Germany March 16, 1937
4 Claims. (Cl. 171—327)

1. In an electromechanically vibratory apparatus, a piezoelectric body, a rigid electrode adjacent to one face of said piezoelectric body, a plate-shaped resilient electrode carrying at one of its surfaces and remote from its centre a number of distributed projections which abut



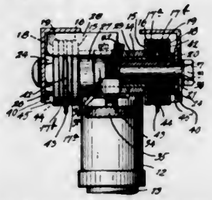
against the other face of said piezoelectric body, and means for applying a pressure to the opposite surface of said plate-shaped resilient electrode in order to vary the airgap between said electrode and said piezoelectric body.

2,167,507
CONVERSION OF HYDROCARBON OILS
Jacob B. Heid, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application October 12, 1935, Serial No. 44,646
3 Claims. (Cl. 196—48)



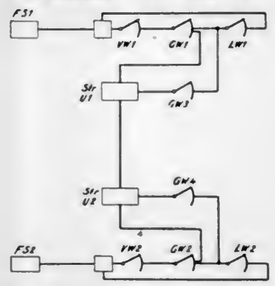
1. A process for the conversion of hydrocarbon oils, which comprises subjecting hydrocarbon oil charging stock for the process to cracking temperature and superatmospheric pressure in a heating coil, introducing the heated products into a reduced pressure vaporizing chamber wherein vaporous and liquid conversion products are separated, withdrawing the latter from the vaporizing chamber and subjecting the same to independently controlled conditions of cracking temperature and superatmospheric pressure in a separate heating coil, introducing heated products from said separate heating coil into a coking chamber wherein the non-vaporous high-boiling conversion products are reduced to coke, withdrawing the vaporous products from the coking chamber and introducing the same into the vaporizing and separating chamber, subjecting vaporous products from the vaporizing and separating chamber to fractionation for the formation of reflux condensate comprising their insufficiently converted components, subjecting fractionated vapors of the desired end boiling point to condensation, recovering the resulting distillate, subjecting reflux condensate formed by said fractionation to independently controlled conversion conditions of cracking temperature and superatmospheric pressure in another separate heating coil and communicating enlarged reaction chamber, and introducing both vaporous and liquid conversion products from the reaction chamber into the coking chamber, the process being further characterized in that at least a regulated portion of the heated products from the second-mentioned heating coil is passed through said reaction chamber prior to their introduction to the coking chamber.

2,167,508
TILTING MECHANISM, ESPECIALLY FOR CHAIRS
Walter F. Herold, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application January 31, 1936, Serial No. 61,833
2 Claims. (Cl. 287—85)



1. For use in a tilting mechanism including a tiltable member, and a support for said tiltable member supporting said tiltable member for tilting movement about a horizontal axis, and resilient means resisting tilting movement of said tiltable member comprising a pair of relatively rotatable elements disposed in longitudinally spaced relation axially of their axis of rotation, an intermediate separator element disposed in spaced relation between said relatively rotatable elements, and rubber elements between said respective relatively rotatable elements and said separator element bonded respectively thereto and compressed between them, one of said relatively rotatable elements adapted to be rigidly connected with said tiltable member and the other of said rotatable elements adapted to be rigidly connected with said support, whereby upon tilting of said tiltable member there is relatively rotary movement between said tiltable member and said support to tension said rubber elements and means for cooperating between said separator element and said tiltable member for preventing further tension to be applied to one of said rubber elements upon tilting to a predetermined position, further tilting movement beyond said predetermined position adapted to apply further tension to the other of said rubber elements, whereby pressure in excess of a predetermined pressure is only applied to said other rubber element.

2,167,509
TELEGRAPH SYSTEM
Robert Helmert, Berlin-Lichterfelde, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application February 12, 1937, Serial No. 125,445
In Germany February 14, 1936
5 Claims. (Cl. 178—2)



1. In a circuit arrangement for interconnecting in a telegraph system subscribers' telegraph apparatus, means including selectors and switching

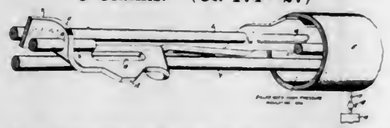
means for establishing a telegraph connection, means including a direct current loop and a calling key therein at each subscriber's station for producing current impulses similar to telegraph signals for setting said selectors, means for operating said switching means in setting up said connection, means for disabling said switching means in case of a premature partial release of the connection, and means including the last mentioned means to postpone the establishment of a new connection until all selectors and switching means in the first mentioned connection have been released and until the loop at the calling subscriber's station has been closed by operating the calling key.

2,167,510

HIGH TENSION GAS INSULATED CABLE

Henry M. Hobart, Niskayuna, N. Y., assignor to General Electric Company, a corporation of New York

Application November 26, 1937, Serial No. 176,461
6 Claims. (Cl. 174—27)



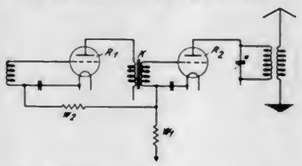
1. A cable comprising a metal pipe, longitudinally extending high tension conductors located therein in spaced angular relation, a series of solid insulators arranged in end to end relation within the pipe, each insulator having relatively long axially displaced web portions occupying different radial positions with respect to each other, axially spaced projections of small surface area on the web portions engaging the inner wall of the pipe, offset portions uniting the radially disposed web portions and also supporting the conductors, and a filling of highly compressed insulating gas for the pipe, the gas having a greater dielectric strength per mil of thickness than the solid insulators.

2,167,511

HIGH-FREQUENCY TRANSMITTER

Heinrich Hornung, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengeselischaft, Berlin-Tempelhof, Germany, a company

Application April 23, 1935, Serial No. 17,806
In Germany May 3, 1934
3 Claims. (Cl. 250—17)



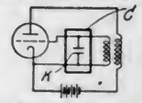
1. A high frequency transmitter adapted to operate over a variable frequency range for transmitting selectively any wave in said range comprising a plurality of amplifying stages connected in cascade, each stage including a vacuum tube having cathode, grid and anode, an iron core transformer coupling one of said stages to a succeeding stage thereof, said transformer having an amplitude characteristic varying with frequency, and means for compensating said varying characteristic comprising means controlled by the grid current of a tube in a stage coupled to the secondary of said transformer for controlling the grid bias of the tubes of said preceding stages whereby the output of said transmitter is maintained substantially constant over said frequency range.

2,167,512

ELECTRICAL OSCILLATORY CIRCUITS

Hans Jacobs, Berlin-Mariendorf, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Application October 15, 1937, Serial No. 169,245
In Germany October 27, 1936
6 Claims. (Cl. 250—40)



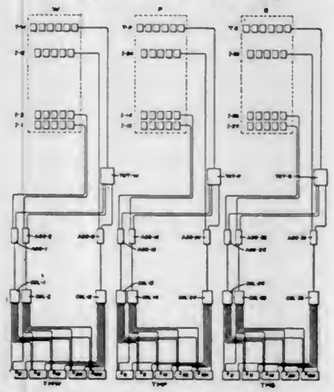
1. The method of controlling the frequency-constancy of oscillating circuits of the type having a plurality of circuit elements which possess different temperature-lag characteristics, which comprises partially thermally insulating material those of said circuit elements which as compared with the other of said circuit elements have less heat lag so as to equalize the temperature conditions of all the circuit elements.

2,167,513

AUTOMATIC TOTALIZING SYSTEM

Arthur J. Johnston, San Mateo, Calif., assignor to General Electric Company, a corporation of New York

Application March 26, 1935, Serial No. 13,077
37 Claims. (Cl. 235—92)



1. In a totalizing system, ticket issuing machines for issuing tickets of different denomitions for each of a plurality of features, an electric impulse adding machine for each feature, means controlled by said ticket issuing machines for transmitting to the proper feature adding machine to effect the operation thereof an electric impulse representing the value of each ticket issued by said ticket issuing machines for the corresponding feature, control means for stopping all of said ticket issuing machines from issuing any more tickets, a totalizing machine, means for normally effecting the operation of said totalizing machine only when the total registered on any feature adding machine reaches a predetermined amount which is greater than the minimum value represented by said electric impulses or a multiple of said predetermined amount, and means for causing said totalizing machine to add to its total after the issuance of tickets has been stopped

the remaining portion of the total registered on each feature adding machine which previously had not been registered on the totalizing machine.

2,167,514

COLORING RUBBER

Maldwyn Jones and Walter Fairbairn Smith, Blackley, Manchester, England, and Alexander Stewart, Grangemouth, Scotland, assignors to Imperial Chemical Industries, Limited, a corporation of Great Britain

No Drawing. Application January 14, 1937, Serial No. 120,634. In Great Britain January 17, 1936
8 Claims. (Cl. 18—50)

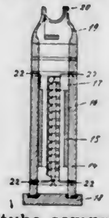
1. A coloring composition comprising a phthalocyanine pigment and a higher fatty acid incorporated in rubber latex, the entire composition being in the form of a waxy solid adapted to color rubber by incorporation on a roller mixer.

2,167,515

ELECTRONIC DISCHARGE TUBE

Annemarie Katsch, Berlin-Lichterfelde, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Lorenzweg, Germany, a company

Application January 25, 1937, Serial No. 122,215
In Germany January 24, 1936
2 Claims. (Cl. 250—27.5)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. An electron tube comprising a vacuum vessel composed of a tubular body of ceramic material, each end surface of said tubular body lying in a single plane, flat discs of the same material fitted to the end surfaces of said tubular body and cemented thereto and closing both ends thereof, and a plurality of electrodes including an anode closely fitted to the tubular wall of said vessel.

2,167,516

SINTERED HARD METAL COMPOSITION

Floyd C. Kelley, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

No Drawing. Application January 20, 1933, Serial No. 652,689
1 Claim. (Cl. 75—136)

A hard metal sintered composition consisting essentially of from 75–90% tungsten carbide, from 5–25% tantalum carbide, and from 2–20% of a binding metal of the iron group.

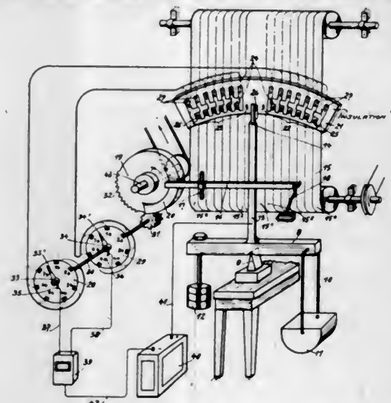
2,167,517

WEIGHT RECORDING AND REGISTERING APPARATUS

Kurt Adolf Körber, Dresden-Oberloschwitz, Germany, assignor to "Universelle" Cigarettenmaschinen-Fabrik J. C. Mueller & Co., Dresden, Germany

Application February 24, 1937, Serial No. 127,368
In Germany February 29, 1936
1 Claim. (Cl. 265—5)

A continuously recording and registering cigarette weighing apparatus, comprising a scale provided with a beam having a pan at one end adapted to receive a number of cigarettes and having at its other end a counterweight for the pan and cigarettes, a pointer arm upstanding from the central portion of the beam and carrying a marker, a recording web having a central and opposite side columns and disposed with its central column opposite the market, right and left rows of successively overlying contacts one for each side column of the web supported in the path of the pointer arm, an electric counter device in circuit with the pointer arm and having an adding means lead and a cooperating subtracting means lead, a continuously operable intermittent device having cam means for periodically depressing the pointer arm to mark the web in the columns thereof corresponding to the position of the arm and the scale at the cam operating period and to engage the arm with the corresponding contact when the scale is out of balance, a pinion engaging the intermittent device for rotating a shaft a full turn during said period of operation of the



cam on the pointer arm, a pair of spaced apart contact points fixed on the shaft to turn therewith with one contact point connected to the adding means lead of the counter and the other contact point connected to the substracting means lead of the counter, a stationary disc for each contact point, one disc having fixed contacts adapted to be traversed by its contact point and corresponding in number and in serial connection in one direction with the row of pointer engaging contacts at one side of the web, and the other disc having like fixed contacts in serial connection in the opposite direction with the row of pointer engaging contacts at the other side of the web, whereby during the marking of the web by the pointer the circuit is closed through the series of traversed contacts on the unbalanced side of the scale and the corresponding shaft pointer is turned to traverse the corresponding energized disc contacts and effect adding and subtracting impulses to the counter corresponding to the right and left displacement of the pointer by the scale.

2,167,518

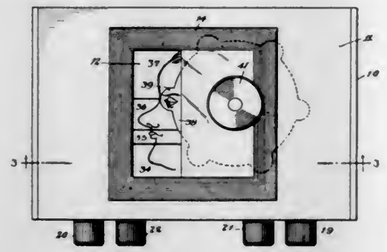
PICTURE MAKING DEVICE

Carl G. Lins, Tuckahoe, N. Y.

Application May 17, 1938, Serial No. 208,425
4 Claims. (Cl. 40—86)

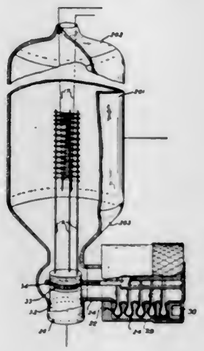
1. A picture making device for forming composite pictures comprising a plurality of strips, means for shifting the strips relative to each other and a rotatable disk positioned in superim-

posed relationship with respect to the strips, each of the said strips and the disk having displayed thereon a plurality of representations of one of the component parts of the picture, said strips



and disk being positioned so that by shifting the strips and rotating the disk different representations of the component parts of the picture may be brought into alignment to form composite pictures.

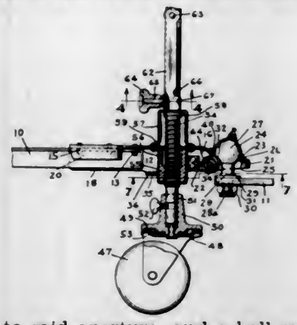
2,167,519
ELECTRON DISCHARGE DEVICE
William H. Manthorne, Bayshore, N. Y., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application January 8, 1938, Serial No. 183,961
1 Claim. (Cl. 250—27.5)



A vacuum tube having a hollow evacuated body, a corrugated metal distortable tube sealed to and communicating with the interior of the body, a rotatable support within the body, an electrical element mounted on the support, means connecting the support to the metal tube to rotate the support when the metal tube is distorted, and external means to distort the metal tube and thereby rotate the support and the element.

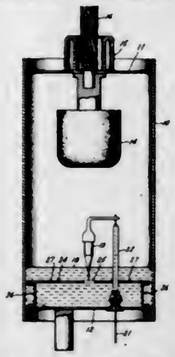
2,167,520
TRAILER COUPLING AND SUPPORT
Arthur Claud-Mantle, Trumbull, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application January 15, 1937, Serial No. 120,679
3 Claims. (Cl. 280—33.15)

3. In a coupling for a trailer or the like, a sheet metal frame member having an aperture, a sheet metal ball receiving socket member engaged in said aperture with its socket facing downwardly and having a flange engaging and secured to the under side of said frame member in surrounding



relation to said aperture, and a ball ended stud releasably disposed in said socket member.

2,167,521
LIQUID CATHODE DEVICE
Lawrence D. Miles, Ballston Lake, N. Y., assignor to General Electric Company, a corporation of New York
Application May 25, 1938, Serial No. 209,950
3 Claims. (Cl. 250—27.5)

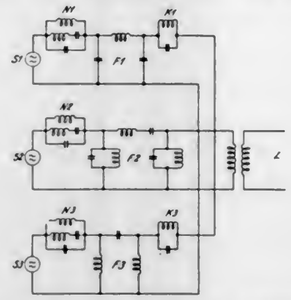


1. A discharge tube including an anode, a liquid cathode, a discharge-influencing device positioned adjacent to the cathode at a central region thereof, the said device being dependent for effective operation on the maintenance of a fixed level of cathode material in the vicinity of the device, and means for maintaining such a fixed level in spite of the occurrence of movements of the tube tending to disturb the normal level of the cathode as a whole, said means comprising a baffle beneath the surface of the cathode and extending substantially parallel thereto, the baffle being provided with a restricted opening underlying the said discharge-influencing device, whereby transverse or tilting motion of the tube forces cathode material upwardly through the opening to maintain a substantially constant level of such material above the opening.

2,167,522
ELECTRIC SEPARATING FILTER
Herbert Nitz, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application November 2, 1937, Serial No. 172,352
In Germany November 6, 1936
2 Claims. (Cl. 178—44)

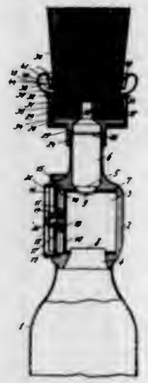
1. An electric filter arrangement for separating

and combining alternating carrier frequency voltages comprising a plurality of filters connected in parallel on one side thereof to a common circuit, said filters being so dimensioned that their char-



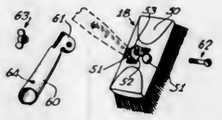
acteristic impedances approach infinity at the cut-off frequencies, and that said cut-off frequencies of each filter coincide with the passed frequencies of the adjacent channel filter.

2,167,523
FOUNTAIN BRUSH
Karl Reichenbach, Karlsruhe, Germany
Application October 21, 1936, Serial No. 106,757
In Germany September 23, 1936
2 Claims. (Cl. 15—133)



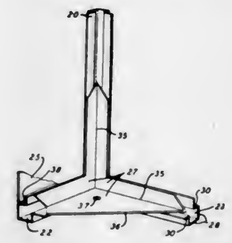
1. A fountain brush, comprising a container having a comparatively large diameter, a hollow neck body, of a smaller diameter which is fastened thereon and serves as a handle, said neck body comprising an enlarged casing portion having an outlet end, a regulating device for the control of fluid passage within said casing portion and a tubular portion of smaller diameter projecting from said outlet end, a brush carrier plate having a central fluid passage opening formed therein, said plate being detachably mounted on said tubular portion and having threads formed thereon, a sleeve screwed on said brush carrier plate, one end of said sleeve having threads formed therein, an inwardly projecting flange upon the opposite end of said sleeve, a brush body having a central fluid passage opening formed therein, an externally projecting base connected with said brush body, the inwardly projecting flange of said sleeve detachably clamping said brush body with its projecting base to said brush carrier plate.

2,167,524
WINDOW-CLEANING DEVICE
Andrew Renik, New York, N. Y.
Application August 25, 1937, Serial No. 160,794
2 Claims. (Cl. 306—28)



2. In combination, a handle having an opening adjacent one end thereof, an eyelet on said handle adjacent said opening, a member made of single piece of resilient wire having an intermediate portion engaging said eyelet, and a pair of oppositely hooked portions disposed in the same plane, a cleaning implement having a socket receiving the tip end of the handle, an apertured member on said implement, one of said hooked portions engaging said opening in said handle and the other hook portion engaging the aperture in said apertured member.

2,167,525
CABINET
Robert W. Rosendale, Westfield, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application August 8, 1935, Serial No. 35,222
2 Claims. (Cl. 312—141)

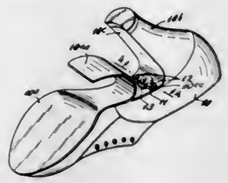


1. In a cabinet, three edge members each comprising an angle member having the two sides thereof offset inwardly longitudinally thereof, and a corner member of trihedral form, each edge member being fitted over and secured to the corner member along the offset portions of the edge member and along an edge of the trihedral member.

2,167,526
SHOE HEEL REINFORCEMENT
Louis Sabo, Bronx, and Joseph Kiss, New York, N. Y.
Application June 30, 1938, Serial No. 216,638
3 Claims. (Cl. 36—76)

1. In combination with a shoe having a sole extending across the bottom thereof and a heel mounted on said shoe at the back thereof and having a thin area portion attached to said shoe, a strip of strong material engaged on the adjacent ends of said sole and said thin area portion transversely thereof, and fastening elements securing said strip in position whereby said strip maintains said heel in position on said shoe, the face of said strip which is adjacent said ends being hollowed out between said fastening ele-

ments, and a stiff member engaged within said hollow and extending therefrom and engaging



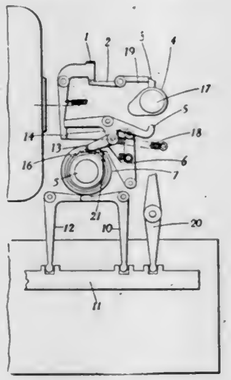
said thin area for assisting said strip of strong material in maintaining said heel in position.

2,167,527

TELEGRAPH APPARATUS

Reginald Dennis Salmon, Croydon, England, assignor to Creed and Company Limited, Croydon, England

Application March 5, 1936, Serial No. 67,257
In Great Britain July 27, 1935
9 Claims. (Cl. 178—2)



1. In combination, a keyboard transmitter and a receiving printer, a cam shaft in said transmitter for controlling the sequential operation thereof on a key of the said keyboard being depressed, detent means for holding the said cam shaft stationary, means operable on the depression of any key for releasing said detent, a selector bar in said printer adapted to be actuated on receipt of a particular signal, mechanical means operable on the actuation of said selector bar in said printer to release said detent, and a physical connection between the actuated selector bar and said cam shaft for controlling means to transmit a signal or group of signals characteristic of said transmitter.

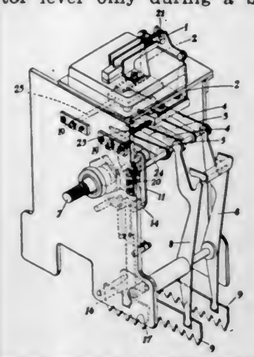
2,167,528

TELEGRAPH TRANSMITTER

Reginald Dennis Salmon, Croydon, England, assignor to Creed and Company Limited, Croydon, Surrey, England

Application March 20, 1936, Serial No. 69,772
In Great Britain April 5, 1935
8 Claims. (Cl. 178—79)

1. In a telegraph transmitter, a transmitting contact tongue, a selector lever movable in accordance with the character of the signal element to be transmitted for positioning said transmitting contact tongue, and means operative upon said selector lever only during a brief interval



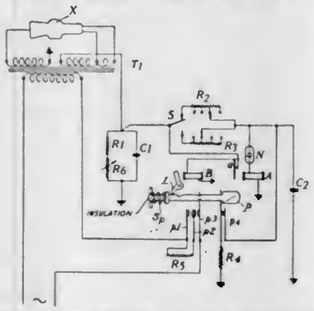
of time during receipt of said signal element to position said contact tongue.

2,167,529

APPARATUS FOR TIMING X-RAY EXPOSURES

Frederick Noel Scaife, London, England, assignor to International Standard Electric Corporation, New York, N. Y.

Application August 12, 1937, Serial No. 158,643
In Great Britain October 9, 1936
3 Claims. (Cl. 250—95)



1. Apparatus for timing X-ray exposures comprising an X-ray tube having a discharge path, connections for supplying operating potentials to said X-ray tube whereby current is caused to flow through said discharge path, means for producing a voltage proportional to the current through said discharge path, a condenser, a variable resistor, connections for charging said condenser through said variable resistor from said voltage proportional to the current through said discharge path, a gas-filled discharge tube connected to said condenser so as to be ignited when the voltage across said condenser reaches a predetermined value, and means operable in response to the ignition of said discharge tube for opening said connections for supplying operating potentials to said X-ray tube.

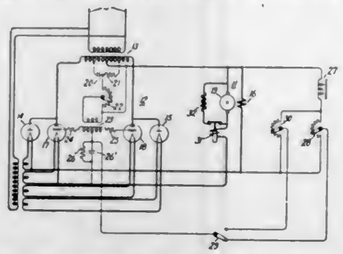
2,167,530

SYSTEM OF DYNAMIC BRAKING

Elbert D. Schneider, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application November 1, 1938, Serial No. 238,174
9 Claims. (Cl. 172—179)

1. The combination comprising a source of alternating current, a direct current motor having an armature winding, an electric valve converting apparatus interconnecting said source with said motor, said converting apparatus including a group of valves for supplying energy from said source to said motor armature wind-



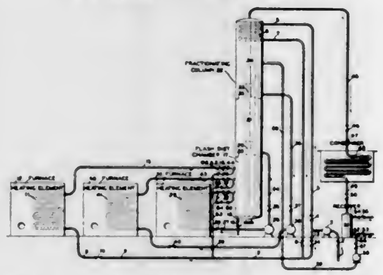
ing, control means for reducing the conductivity of said group of valves to a predetermined amount thereby to reduce the speed of said motor, and means responsive to said first means for dynamically braking said motor until a predetermined speed is obtained.

2,167,531

TREATMENT OF HYDROCARBON OILS

Jean Delattre Seguy, Chicago, Ill., assignor, by mesne assignments, to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

Application July 28, 1930, Serial No. 471,206
Renewed May 4, 1938
5 Claims. (Cl. 196—48)



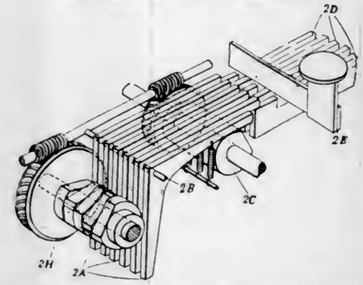
2. The method of decomposing hydrocarbon oils to form low boiling products therefrom which comprises maintaining residual oil products in a decomposing zone at a temperature to effect decomposition thereof, removing vapors from said decomposing zone and supplying fresh oil containing residual products into contact with the removed vapors, thereby vaporizing a portion of said fresh oil and heating the unvaporized residual constituents thereof, discharging said unvaporized residual constituents, free from the vaporized portion, into said zone to be decomposed therein, cooling the combined vapors from said zone and from the fresh oil to condense therefrom a plurality of fractions of different intermediate boiling point ranges, separately collecting the resulting condensates, heating a lighter condensate thus separated to vaporizing and cracking temperature under pressure to effect conversion thereof, commingling vapor products of said cracking with the fresh oil while the latter is substantially below its vaporizing temperature and before it is supplied into contact with the vapors from said decomposing zone, and heating a heavier one of said condensates to cracking temperature and discharging it into the decomposing zone to maintain a decomposing temperature therein.

2,167,532

TELEGRAPH, SIGNALING, AND LIKE SELECTIVE SYSTEM AND APPARATUS

Victor Sims, Hendon, England; Anna Maria Sims, administratrix of the estate of said Sims, deceased, assignor to Creed and Company, Limited, Croydon, Surrey, England

Application January 29, 1936, Serial No. 61,323
In Great Britain January 29, 1935
18 Claims. (Cl. 178—17)



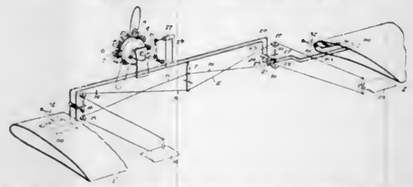
1. Telegraph, signaling, and like selective systems having a signal transmitting distributor with a series of sequentially operable elemental portions for transmitting a corresponding series of signal elements distinguished by two line conditions in a signal combination; a plurality of series of control elements each series being operable in sequence, of which one or more of said series control the elements of the signal combinations transmitted by said distributor, and means rendering effective at least one of said series of control elements in sequential and overlapping order with the sequential operation of the elemental portions of said distributor.

2,167,533

TORQUE COMPENSATOR FOR AIRPLANES

Guillermo Solomon, Santiago, Dominican Republic

Application August 25, 1938, Serial No. 226,750
10 Claims. (Cl. 244—76)



1. A torque compensator for airplanes including means controlled by the movement of the base of the motor of an airplane for automatically shifting the ailerons to compensate the torque of the engine.

2,167,534

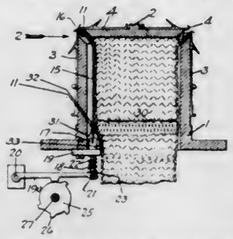
LOOP-CUTTING ATTACHMENT FOR RIB-KNITTING MACHINES

Charles Edwin Spicher, Millersburg, and Frank Wells Robinson, Reading, Pa.

Application May 17, 1937, Serial No. 142,960
7 Claims. (Cl. 66—147)

1. In a knitting machine having thread feeding

and knitting mechanism for producing a succession of tubular fabric sections formed with a connecting course of special pull-out loops; automatically operated loop-engaging means for re-



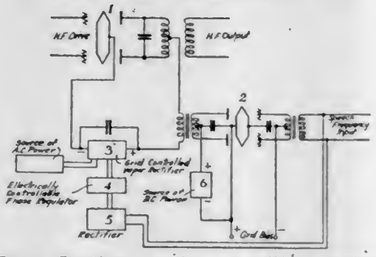
ceiving opposite end loops of the pull-out courses and for severing the same so as to permit removal of said pull-out courses for separation of the fabric sections.

2,167,535

CARRIER WAVE SIGNALING SYSTEM

Charles Eric Strong and Francis Charles McLean, London, England, assignors to International Standard Electric Corporation, New York, N. Y.

Application January 11, 1936, Serial No. 58,765
In Great Britain February 1, 1935
4 Claims. (Cl. 179—171)



1. In a floating carrier signalling system in which a carrier frequency wave is modulated by a source of signal frequency, a modulated thermionic tube device, a transmission channel for applying signals from said source to said device, a controllable voltage supply source, connections from said voltage supply source to the plate circuit of said modulated thermionic tube device, amplifier means included in said transmission channel for amplifying the signals from said source of signal frequency before application of said signals to said device, said amplifier means being biased so as to also produce a uni-directional voltage which varies in accordance with the mean energy level of said source of signal frequency, connections for applying said amplified signals to the plate circuit of said device, and means for controlling said voltage supply source in accordance with said uni-directional voltage.

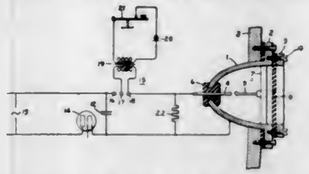
2,167,536

SUBMARINE SIGNALING

Chauncey G. Suits, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application June 9, 1937, Serial No. 147,285
1 Claim. (Cl. 177—386)

Apparatus for producing a submarine signal having a steep wave front comprising a capacitor, means for charging said capacitor, a liquid spark gap connected to receive a discharge from said capacitor and means for controlling said discharge comprising a plurality of air gaps in series in said connection, a resistor connected



across said liquid gap and means for applying a potential difference across one of said air gaps to cause the other gap to break down.

2,167,537

LIQUID COATING COMPOSITION

Carlos Tobis, Berlin-Oberschoneweide, Germany, assignor to General Electric Company, a corporation of New York

No Drawing. Application August 19, 1937, Serial No. 159,973. In Germany October 24, 1936
2 Claims. (Cl. 260—32)

1. A baking enamel comprising a mixture of polymerized ester of acrylic acid and polymerized acrylonitrile and an organic solvent for said mixture comprising a mixture of diethylene dioxide, monochlorbenzene, cyclohexanone, dichlordiethyl ether and ethylene glycol diacetate.

2,167,538

HIGH-FREQUENCY CABLE

Johannes Türk, Berlin-Kopenick, and Hans Brede, Berlin-Niederschoneweide, Germany, assignors to General Electric Company, a corporation of New York

Application October 30, 1936, Serial No. 108,486
In Germany January 9, 1936
3 Claims. (Cl. 174—28)



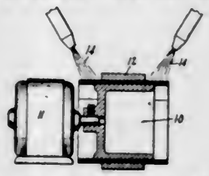
1. An electric cable comprising an inner conductor, a tape having spaced holes wound spirally around and spaced from the inner conductor, cones of insulating material partially passing through said spaced holes and retained on said tape for engaging the inner conductor to secure it centrally of said tape, and an outer conductor wound around said tape.

2,167,539

METHOD OF MAKING FLANGED CYLINDERS

Jacob J. Vienneau, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application December 28, 1937, Serial No. 182,075
6 Claims. (Cl. 18—56)



1. The method of forming a flange on a hollow expandible cylinder of material rendered pliable by moisture which comprises rapidly ro-

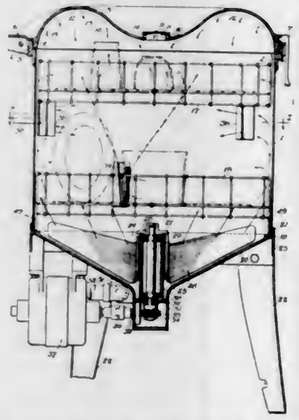
tating said cylinder axially while supported externally for a part of its length and moistening an unsupported part of the cylinder.

2,167,540

DISHWASHING MACHINE

Ulysses S. G. Welsh, New York, N. Y.

Application January 21, 1937, Serial No. 121,484
1 Claim. (Cl. 141—9)



A dish washing machine comprising a casing having a cone-shaped base with a tubular side structure rising from the periphery of the base, a closure for the top of said tubular side structure, an impeller structure arranged in said base and terminating near said tubular side structure for forcing liquid in a film-like form in an upward direction against said tubular side structure, said closure at the top coacting with said tubular side structure to cause said liquid to be deflected downwardly with some appreciable force, deflecting means carried by said tubular side structure intermediate its length for deflecting a portion of said liquid radially laterally and downwardly, and projecting means carried by said tubular side structure positioned below said deflecting means for projecting a portion of the liquid from said tubular side structure upwardly in a substantially cone-shaped formation with the axis of the cone at an angle to the vertical when the axis of the tubular side structure is vertical, and a pair of containers arranged within said casing for supporting articles to be washed, one of said containers being positioned in the path of the liquid deflected by said closure and projected by said projecting means and the other in the path of liquid deflected by said closure and deflecting means.

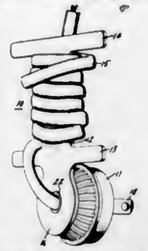
2,167,541

CORD REEL FOR ELECTRIC PLUG CAPS

William R. Young, Fairfield, Conn., assignor to General Electric Company, a corporation of New York

Application September 9, 1937, Serial No. 163,078
3 Claims. (Cl. 173—361)

1. In combination, an electric plug cap having an electric cord connected thereto, an H-shaped cord holding reel comprising a flat fiber sheet having a center stem and spaced cross-arms extending outwardly from each end of said stem, said reel being provided with an integral offset mounting portion substantially in alignment with said center stem, and means for securing said mounting portion to said plug cap whereby an



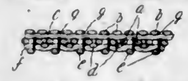
excess of the electric cord may be wound on said reel.

2,167,542

DRIER FELT FOR PAPER MACHINES

William A. Barrell, North Andover, Mass., assignor to Lawrence Duck Company, Lawrence, Mass., a corporation of Massachusetts

Application September 3, 1937, Serial No. 162,271
2 Claims. (Cl. 139—410)



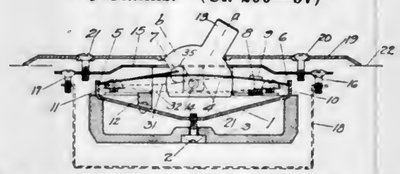
1. A drier felt of the type having a face ply and a back ply each constructed of plain-woven warp and filling strands, and the plies being connected together by interwoven binder strands; in which the warp strands of the face ply are more numerous than the warp strands of the back ply, in the order of from nearly twice to more than four times as many, while being of substantially like diameter and weight, and are so closely crowded together laterally as substantially to prevent contraction in width, and elongation, of the felt in use, the binder strands being relatively small in proportion to the body warp strands, and the warp strands of the back ply are spaced apart from one another throughout the width of the felt.

2,167,543

ELECTRIC SWITCH

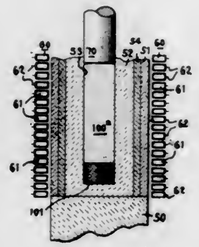
George H. Bugenhagen, Minot, N. Dak.

Application August 23, 1937, Serial No. 160,422
3 Claims. (Cl. 200—67)



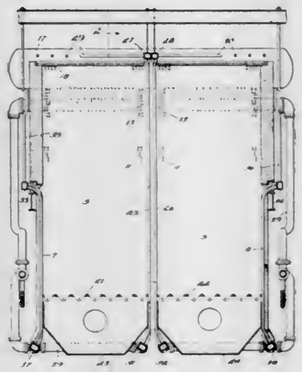
3. A combination in an electric switch having an insulator block supporting an adjustable supporting frame in which is operatively mounted a switch reversing member comprised of a flat flexible spring member operatively positioned between a pair of contacts, the said flexible spring member normally engaging either one of said contacts to close an electrical circuit, a cantilever spring member, one end thereof being fixed near the end opposite to the contacting point end of the aforesaid flexible spring member, the other end of the said cantilever spring being positioned near the center of the said flexible spring member and the said end operatively engaging an operating lever pivotally mounted at the center of the switch for reversing the switch.

2,167,544
METHOD OF MAKING HARD METAL ARTICLES
Jean Hubert Louis De Bats, East Orange, N. J., and John A. Ritz, Youngstown, Ohio, assignors to Metal Carbides Corporation, Youngstown, Ohio, a corporation of New Jersey
Application September 9, 1937, Serial No. 162,966
7 Claims. Cl. 75—137)



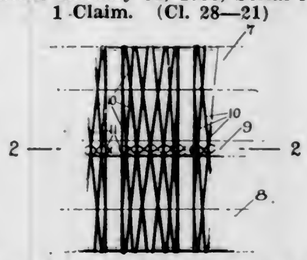
1. The method of making a hard metal article from powdered material, which comprises compressing the material in a mold by exerting pressure lengthwise of the mold, and while compressing it applying heat to it locally and progressively lengthwise of the mold to consolidate the entire mass of material.

2,167,545
STEAM GENERATOR
Arthur E. Duram, Springfield, Ill., assignor to Springfield Boiler Company, Springfield, Ill., a corporation of Illinois
Application December 11, 1935, Serial No. 53,880
5 Claims. (Cl. 122—240)



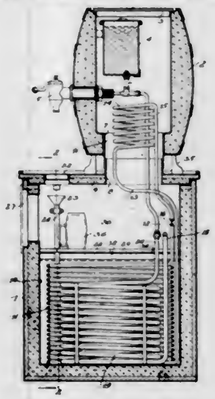
1. A furnace under a single unit boiler comprising a combustion chamber having tubular water walls and divided into a plurality of sections by partitions, each partition comprising two adjacent water walls, the tubes of each wall being of sufficient size and suitably spaced to shield the tubes of the adjacent wall from the heat of the adjacent section and each of said sections being adapted to be heated by separate fuel supply means.

2,167,546
SKEIN LACING
David Franklin Evans, Buffalo, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 31, 1935, Serial No. 4,342
1 Claim. (Cl. 28—21)



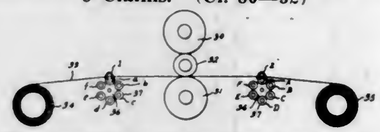
A skein of artificial silk thread of less than 100 denier and having a filament size of less than 3 deniers per filament, said skein being adapted to be subjected to liquid purification treatment, said skeins being laced with a lacing thread composed of artificial staple fiber, said lacing thread corresponding in size to 12 count cotton, made up from two staple rayon threads having a twist of 13 to 15 turns per inch and twisted together with about 6 or 7 turns per inch, said threads consisting of rayon fibers having a denier between 1 and 2 and a length between 1¼ inches and 1¾ inches.

2,167,547
BEVERAGE DISPENSING APPARATUS
Frederick W. Holderle and Carl L. Holderle, Rochester, N. Y., assignors to Chain Store Root Beer Co. Inc., Rochester, N. Y., a corporation of New York
Application May 16, 1938, Serial No. 208,148
11 Claims. (Cl. 225—21)



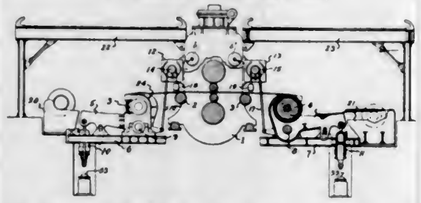
1. A beverage dispensing apparatus comprising a cabinet base having an opening of substantial size in its top, a housing on said base having an opening of substantial size in its bottom registering with the first mentioned opening, connections between the base and housing around said openings affording an air circulating conduit therebetween, said conduit being open at the top and bottom affording free circulation from the interior of the base to the interior of the housing, a syrup container in the housing, a faucet on the housing connected with said syrup container, a cooling coil in the cabinet base extending upwardly through said conduit into the housing, and a carbonated water conductor extending through said cabinet base and upwardly through said conduit into the housing where it is connected to said faucet.

2,167,548
ELONGATION GAUGE AND METHOD
Edwin B. Hudson, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application August 16, 1937, Serial No. 159,249
9 Claims. (Cl. 80—32)



1. The method of determining the adherence of a mill to a predetermined per cent elongation, which includes the steps of contacting the strip at the entrance and exit sides of the mill, respectively, with rotative elements, and proportioning the sizes of said elements in such manner that when the predetermined elongation is being produced, said elements will be rotated at the same speed.

2,167,549
TENSION APPARATUS FOR REVERSIBLE MILLS
Edwin B. Hudson, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application October 23, 1934, Serial No. 749,591
12 Claims. (Cl. 80—32)



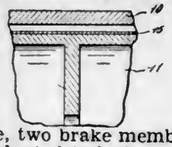
10. In combination, a mill, coilers having drums on both sides of said mill, said drums being movable toward and away from said mill in the direction of rolling, constant-force means urging said drums away from said mill on both sides, alternatively operable braking and driving means for said drums on both sides of said mill, and controllers for said driving means, said controllers being actuated by the positions of said drums with respect to said mill.

2,167,550
JOINT-CLOSING MEMBER AND METHOD OF MAKING THE SAME
Edward M. Jenkins, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application December 31, 1935, Serial No. 56,899
8 Claims. (Cl. 18—48)



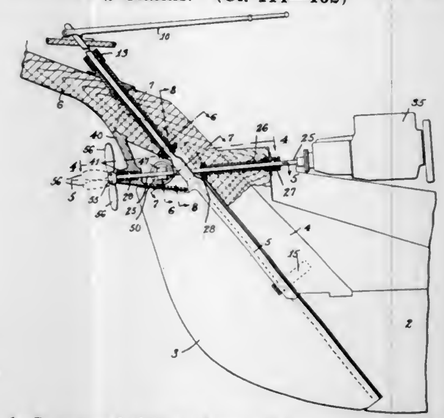
1. The method of preparing a joint filler which comprises heating a preformed resilient cork sheet consisting of granulated cork bonded with a thermoset binder to a temperature sufficient to soften the sheet, compressing the sheet while hot under a pressure of approximately 150 to 200 pounds per square inch to reduce the thickness of the sheet to approximately one-half of its original thickness, and cooling the sheet while in its compressed state, whereby a sheet is obtained capable of retaining its reduced thickness in the absence of moisture but capable of expanding to approximately its original thickness when subjected to moisture.

2,167,551
BRAKE
Alvin J. Musselman, Cleveland Heights, Ohio
Application June 30, 1938, Serial No. 216,727
8 Claims. Cl. 188—250)



1. In a brake, two brake members having friction surfaces adapted to be brought into engagement for braking purposes, one of said surfaces being steel and the other surface being hard chromium plated metal.

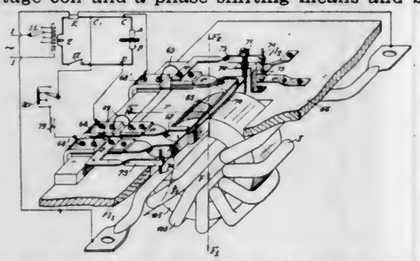
2,167,552
SHIP CONSTRUCTION
Frank C. Paine, Wayland, Mass.
Application January 14, 1938, Serial No. 185,001
2 Claims. (Cl. 114—162)



1. Improved ship and vessel construction of the kind described, consisting in a rudder post and stern post formed to receive an engine propeller shaft therethru, a propeller shaft extending thru said rudder post, said propeller shaft carrying a propeller rearwardly of and above the rudder, and said opening thru the rudder post being constructed and arranged to permit full turning capacity of the rudder without interference from the propeller, in combination with a streamlined housing partially enclosing said shaft and secured to the hull above the rudder.

2,167,553
APPARATUS FOR MEASURING ELECTRIC ENERGY
David Sciaky, Paris, France
Original application August 6, 1934, Serial No. 738,647. Divided and this application April 23, 1936, Serial No. 75,977. In France August 16, 1933
5 Claims. (Cl. 171—95)
1. In an electric welding device a working circuit comprising welding electrodes, a wattmeter,

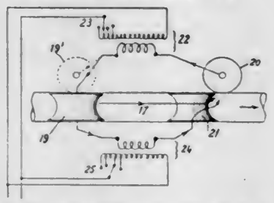
having a current coil in shunt with said working circuit and two voltage coils, one of said voltage coils being branched to said working circuit at two accessible tapping points on opposite sides of and spaced from the electrode points and a corrective voltage circuit including the second voltage coil and a phase shifting means and being connected to two accessible points of the working circuit at one and the same side of the electrodes, said corrective circuit being arranged and adapted to transmit to said second voltage coil a tension equal and opposed to the complex ohmic and inductive voltage drop occurring between said tapping points and said electrode points.



2,167,554
PROCESS FOR THE ELECTRIC WELDING OF TUBES

David Sciaky, Paris, France

Application May 29, 1936, Serial No. 82,485
In France May 29, 1935
3 Claims. (Cl. 219—10)



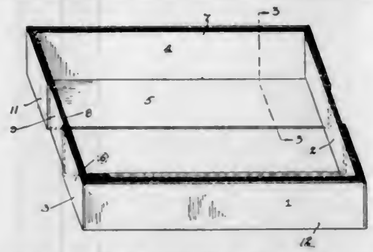
1. A welding process for producing a closed tube from a work piece having a longitudinal gap therein by means of an electric current source comprising two poles, which process consists of displacing the work piece in a continuous translatory movement, applying to the up-stream side of the work piece and outside of the gap region thereof, roller electrodes distributed circumferentially with respect to the work piece and connected to one of the poles, applying, from the down-stream side to the gap of the work piece a single roller electrode connected to the other pole, placing supplementary control rollers in electric contact with the work piece between the up-stream electrodes and the down-stream electrode, said supplementary rollers serving for the control of the amount of heat liberated and being raised to varying potentials in relation to the up-stream roller electrodes and the down-stream roller electrode.

2,167,555
PACKING SPACER

Elroy P. Sherman, Ashtabula, Ohio, assignor to The Ashtabula Corrugated Box Company, Ashtabula, Ohio, a corporation of Ohio

Application April 15, 1936, Serial No. 74,572
4 Claims. (Cl. 229—14)

1. A packing protection cap of corrugated fibrous board, said cap consisting of a rectangular structure including laminated reinforcing protection members secured thereto to form unitary ends with trihedral corners and solid edges, and a connection of less thickness between said ends.



2,167,556
RECOVERY OF LIGNIN FROM NATURAL CELLULOSE COMPOUNDS

Judson G. Smull, Bethlehem, Pa., assignor, by mesne assignments, to Stacom Process Corporation, Long Island City, N. Y., a corporation of New York

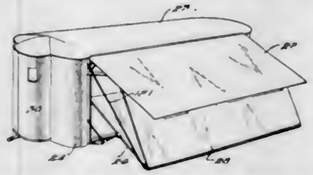
No Drawing. Application March 18, 1936, Serial No. 69,530
8 Claims. (Cl. 260—124)

1. A method for recovering lignin from vegetable material containing it and substantially free from resin, comprising treating the said vegetable material with liquid sulfur dioxide, filtering the liquid mixture and evaporating the sulfur dioxide to leave the lignin as a solid residue.

2,167,557
FOLDING WALL CONSTRUCTION FOR TRAILERS

William B. Stout, Detroit, Mich., assignor, by mesne assignments, to Stout Engineering Laboratories, Inc., Dearborn, Mich., a corporation of Michigan

Application December 10, 1936, Serial No. 115,180
22 Claims. (Cl. 296—23)



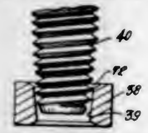
1. An expansible building including, in combination, a permanent central section, an extensible roof section pivotally connected thereto, vertically disposed trackways in said central section, an extensible floor section having the inner edge thereof mounted for movement in said trackways, and an outer wall section pivotally connected to said floor section at the outer edge thereof and slidably connected to said roof section.

2,167,558
SELF-TAPPING BOLT

Ralph H. Upson, Ann Arbor, Mich., assignor to The Lamson & Sessions Company, Cleveland, Ohio, a corporation of Ohio

Application June 24, 1937, Serial No. 150,088
9 Claims. (Cl. 85—46)

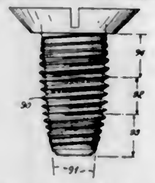
1. A bolt consisting of a hardened threaded screw part and an unthreaded, unhardened nut part, the hole in said nut part being tapered and having an entrance diameter larger than its mean diameter, and the stem of said screw part being tapered and having a tip diameter less than its mean major diameter.



2,167,559
SELF-TAPPING SCREW

Ralph H. Upson, Ann Arbor, Mich., assignor to The Lamson & Sessions Company, Cleveland, Ohio, a corporation of Ohio

Application December 31, 1937, Serial No. 182,743
6 Claims. (Cl. 85—46)

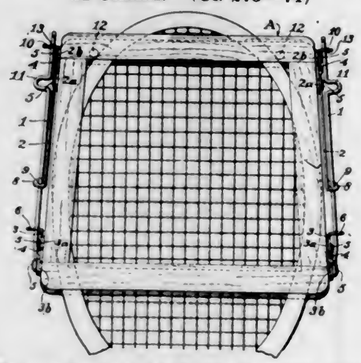


1. A screw having a head, and a stem comprising threaded portions of two different tapers, the portion nearest the head being tapered toward the head, the other portion having a substantially equal but reversed taper-angle and having complete threads of full depth thereon, the root diameter for both of said threaded portions increasing toward the head at a substantially uniform rate.

2,167,560
RACKET PRESS

William G. Curry, Springfield, Mass., assignor to A. G. Spalding & Bros., New York, N. Y., a corporation of New Jersey

Application September 24, 1937, Serial No. 165,596
21 Claims. (Cl. 273—74)



1. In combination in a racket press, upper and lower clamping members, linkage connections extending between and connecting said members at opposite sides thereof, said linkage connections on each side being in sets spaced apart from each other and located near the end portions of said sides, and manually operable levers, one on each side of the press and operatively connected to the spaced apart sets of linkage connections, said manually operable lever on each side extending lengthwise of the side of the press and movable in a plane substantially parallel with the side of the press for operating the said sets of linkage connections simultaneously, in opening or closing the press.

2,167,561
AIRCRAFT TURRET

Félix Amiot, Neuilly-sur-Seine, France

Application January 24, 1938, Serial No. 186,746
In Luxemburg January 25, 1937
3 Claims. (Cl. 89—37.5)

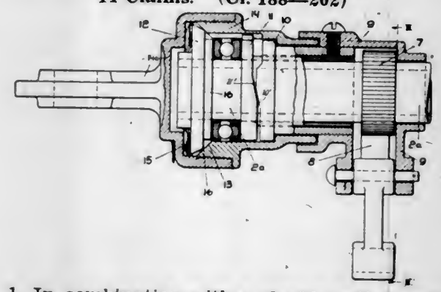


1. In an aircraft, a body, a pair of turrets, means mounting said turrets for movement into and out of the body in upward and downward movement respectively, and means operatively connecting said turrets for simultaneous movement into and out of the body whereby the weight of one turret at least partially balances the weight of the other.

2,167,562
DOUBLE-ACTING AUTOMATIC SLACK ADJUSTER FOR BRAKES

Bert Henry Browall, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden, a corporation of Sweden

Application November 30, 1937, Serial No. 177,333
In Germany December 4, 1936
11 Claims. (Cl. 188—202)



1. In combination with a double-acting automatic slack adjuster of the character described, comprising a non-selflocking screw connection, a controlled friction clutch for stopping rotation of said non-selflocking screw connection in slack increasing direction, comprising two opposed clutch members having facing friction surfaces one of which is edge fashioned for frictional contact of substantially linear character with the other friction surface.

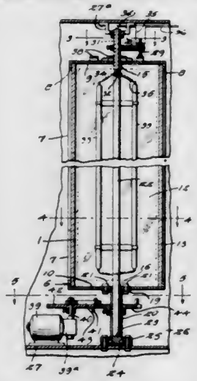
2,167,563
REVOLUBLE SIGN STRUCTURE

Guillermo López Castillón, Monterrey, Mexico

Application November 28, 1938, Serial No. 242,829
6 Claims. (Cl. 40—77)

1. A sign structure including a hollow upstanding intermittently revoluble carrier provided with spaced illuminable display elements, a socket forming member depending from the bottom of, bodily moving with, and communicating with the carrier, an upstanding stationary shaft extending through the carrier and having its lower portion mounted in and supported by said member, said carrier and member being revoluble about said shaft, a stationary structure enclosing the car-

rier, member and shaft and having means for supporting the upper end of the shaft and the lower end of said member, said structure being permanently spaced from the carrier and having a pair of opposed open sides for simultaneously



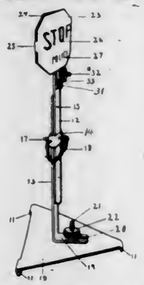
exposing a pair of display elements between the intermittent revoluble impulses of the carrier, a driven shaft, and means operated from the latter and connected to said member and to said driven shaft for imparting intermittent revoluble impulses to the carrier.

2,167,564

PORTABLE TRAFFIC SIGNAL

Alfred S. Fonda, Elmira, N. Y.

Application February 20, 1939, Serial No. 257,553
1 Claim. (Cl. 40—125)



In a portable traffic control signal of the character described, a base plate, a vertically adjustable standard detachably engaged at its lower end with the base plate and a signal head detachably engaged with the upper end of the standard, the signal head carrying a depending forked leg and a screw and nut combination carried by the upper end of the standard engaged with the forked leg of the head for detachably securing the head to the standard.

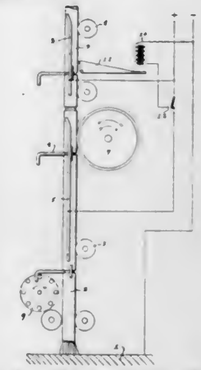
2,167,565

METHOD OF CONNECTING THE ELECTRODES IN AUTOMATIC ELECTRIC ARC WELDING

Günter Erber, Weiz, Steiermark, Austria, assignor to Elin A. G. für elektrische Industrie, Vienna, Austria, a corporation of Austria

Application November 6, 1937, Serial No. 173,170
In Austria November 30, 1936
10 Claims. (Cl. 219—8)

1. The method of interconnecting sections of the covered electrode in automatic electric welding, which consists in welding together the successive electrode sections by means of an arc struck between the ends thereof in series with the main welding circuit.



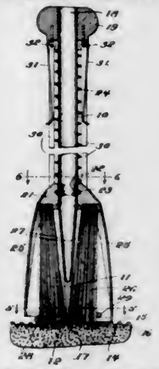
2. Apparatus for the purpose of welding together successive sections of a covered welding electrode in automatic arc welding, comprising means for advancing the successive electrode sections and means for diverting the electric current of the main welding circuit through said sections.

2,167,566

SAMPLER FOR BAGGED MATERIALS

Harry Friedman, Twin Falls, Idaho

Application May 9, 1938, Serial No. 206,963
6 Claims. (Cl. 83—15)



1. A device of the character described comprising a tube having a slotted pointed piercing end and an opposite open end, a header slidably riding said tube, a pair of opposed cheeks carried by and extending from said header, a plurality of inherently resilient tines fitted with said header and crowded about the piercing end of said tube, means on the cheeks for holding the tines in their crowded relationship to the piercing end of the tube and allowing displacement thereof by movement of the tube, and means arranged between the header and the tube for latching the latter against movement in one direction relative to said header.

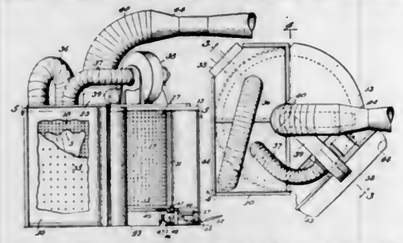
2,167,567

REVOLVING SPRAY BOOTH AND DRIER

Joseph H. Geier, Milwaukee, Wis.

Application August 1, 1938, Serial No. 222,474
4 Claims. (Cl. 34—19)

1. A revolving spray booth and drier comprising a casing, a work support mounted within the casing for rotation about a vertical axis and having radially disposed partitions dividing the casing into a service chamber, a spraying chamber, a preliminary drying chamber, and a final drying chamber, the casing having openings in the front of the spraying chamber and in the front of the service chamber, sealing means between the work support and the casing, a source of heated air



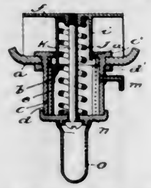
communicating with the final drying chamber, a pipe disposed above the casing and communicating with the final drying chamber, and with the initial drying chamber, an exhaust blower having its intake connected with the initial drying chamber, and a stationary exhaust pipe at the center of the work support connected with the exhaust blower and having inlet openings communicating solely with the spraying chamber.

2,167,568

ELECTRICAL TIRE GAUGE

Walter Harfst, Grand Island, Nebr.

Application March 27, 1937, Serial No. 133,472
1 Claim. (Cl. 201—48)



In an electrical tire gauge, the combination of a rim and tire of a wheel, telescopic shells supported by the rim and one of the shells extending into the tire where it responds to the pressure therein, a pin secured to one of the shells and slidably connected with the other, a spring housed within the shells tending normally to force them apart, a resistance housed within one shell, and a contactor carried by the other shell in position to engage the resistance at different points corresponding to the pressure in the tire.

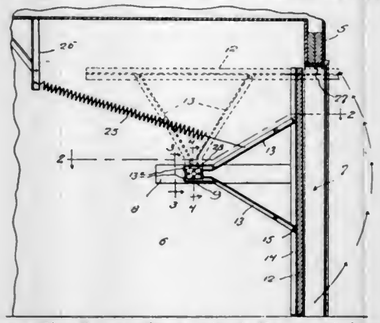
2,167,569

DOOR MOUNTING

Edward Harrison Graves and Walter Ballard Graves, Arlington, Tex.

Application July 6, 1938, Serial No. 217,798
3 Claims. (Cl. 16—130)

1. In a hinge mounting for a counterbalanced door, a bracket adapted to be fixed at one side of and inwardly of the door opening and having a laterally projecting horizontal journal stud, arms adapted to be rigidly secured to and to project inwardly from a side of the door and comprising a pair of bars having adjacent spaced parallel inner end portions and outwardly diverging outer end portions, and a pair of hinge plates bolted together against opposite sides of said inner end portions of said bars, said hinge plates



having alined openings pivotally receiving the journal stud of said bracket.

2,167,570

METHOD OF MAKING SHEET MATERIAL

Hermann Heckel, Chicago, Ill., assignor to Marbon Corporation, a corporation of Delaware

No Drawing. Application December 24, 1934, Serial No. 758,940
4 Claims. (Cl. 18—57)

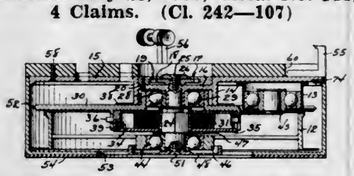
1. The method of making relatively thin transparent self-sustaining sheet material suitable for wrapping purposes, which comprises casting a solution of a soluble caseinate and a hardening agent into a self-sustaining sheet, setting the sheet but without substantially drying the sheet, passing the same through an acid bath to bring the sheet to about its iso-electric point and then through a bath of glycerine to plasticize said sheet and drying said sheet.

2,167,571

TELEPHONE CORD TAKE-UP

Jay T. Hellmann, Miami, Fla.

Application May 25, 1937, Serial No. 144,711
4 Claims. (Cl. 242—107)



1. In a telephone cord take-up, stationary and rotary reels for receiving intermediate coiled portions of a telephone cord, said reels being in axial alignment with the stationary reel of materially smaller diameter than the rotary reel but positioned above the latter, and a rotatably mounted gathering disk interposed between the two reels and rotating on an axis common with the latter, said gathering disk extending beyond the periphery of the rotary reel and having a segment removed to provide a clearance space, and a transfer roll rotatable on an axis parallel with that of the disk and reels and disposed in the clearance space, that portion of the cord between the two reels being trained over the transfer roll.

2,167,572

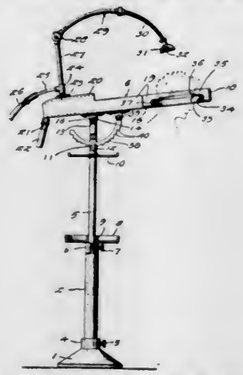
SHAMPOO APPARATUS

Nettie M. Howe, Austin, Minn.

Application February 8, 1938, Serial No. 189,468
4 Claims. (Cl. 4—159)

1. A shampoo apparatus comprising a tray

having a bottom provided with a head receiving opening adjacent one end, means for carrying off liquid from the tray, means supporting the tray in a manner facilitating its adjustment at a desired inclination from the horizontal, an upwardly and outwardly extending flange carried by the tray and defining said head receiving



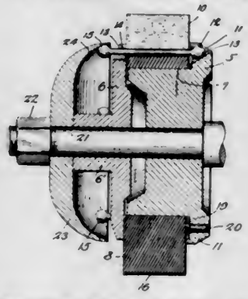
opening, and a head engaging resilient diaphragm in the form of a flat annulus having its peripheral edge formed for resilient detachable engagement under said flange whereby the central open portion of the annulus may receive and engage a head extended through the opening, beneath the hair line thereof.

2,167,573

SANDING WHEEL HEAD

Charles Jones, High Point, N. C., assignor to Pearson Sanding Machine Company, High Point, N. C.

Application November 3, 1937, Serial No. 172,609
6 Claims. (Cl. 51—194)



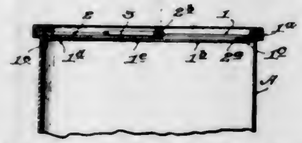
1. In a sanding wheel, a body portion, an annular flange extending from one edge of the periphery of the body portion, said flange having transverse grooves formed with circular enlarged portions, a disk-like retaining section having grooves and engaging said body portion, a resilient rim section fitted on the body portion between the flange and retaining section and having transversely disposed grooves, the grooves of the resilient rim section being in direct horizontal alignment with the grooves of the annular flange of the body portion and grooves of the retaining disk, substantially straight rigid rods, balls formed at the ends of the rods, certain of said balls being held within the circular enlarged portions of the first mentioned grooves, said rods extending through the aligning grooves, means cooperating with the balls at the opposite ends of the rods for securing the rods in position, and said rods adapted to clamp a sanding strip in said grooves.

2,167,574

TOP FOR SPICE TINS

Jesse Lee Jones, Baltimore, Md., assignor to McCormick & Company, Inc., Baltimore, Md., a corporation of Maryland

Application July 9, 1938, Serial No. 218,408
4 Claims. (Cl. 221—64)



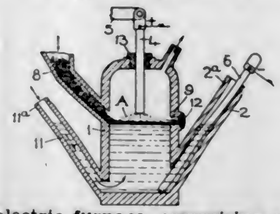
1. In a spice tin or the like, a top having a circular depression connected therewith by an annular undercut flange and having a relatively large opening therein; a rotatable disk seated upon the depression with its periphery underlying said flange, and having an opening therein adapted in one position of the disk to register with the first mentioned opening; and a member hingedly mounted on the disk and adapted when upended to assist in rotating the disk.

2,167,575

ELECTRIC FURNACE

Thomas Daniel Kelly, Croydon, England

Application April 4, 1938, Serial No. 199,986
In Great Britain April 8, 1937
3 Claims. (Cl. 13—9)



1. An electric furnace, comprising a generally upright chamber adapted to contain molten material, a downwardly arranged spout communicating with the lower part of said chamber for receiving a cathode electrode, a stuffing box in the top of said chamber for receiving a downwardly projecting anode electrode, a downwardly projecting charging conduit or inlet communicating with said chamber just above the level of the molten material, whereby the material to be treated can be delivered onto the molten material, an outlet or tapping hole in the side of said chamber just above the level of the molten material for removal of the products, and an exit in the upper part of said chamber for exit of gases, for the purpose set forth.

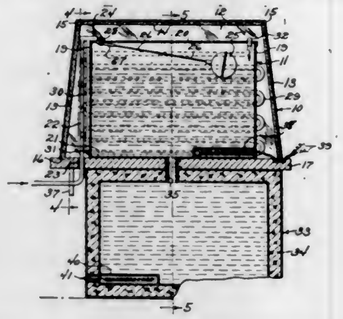
2,167,576

SOLAR HEATER

Fred M. Kiser, Los Angeles, Calif.

Application August 25, 1937, Serial No. 160,907
2 Claims. (Cl. 126—271)

1. A solar heater comprising a glass hood, a supporting base having a groove receiving the lower edge of the hood, a water heating tank supported on the base within the hood, a water supply pipe entering the tank, a float controlled valve in said pipe, water heating coils disposed exteriorly of the said tank and exposed to sun rays passing through the hood, said water heating coils being connected at one end to said pipe and at the opposite end projecting into the top of the water heating tank, an insulated storage tank



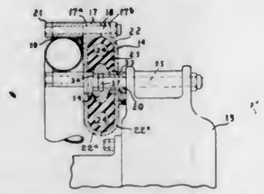
disposed underneath and supporting the insulating base, a draw off spigot connected to the storage tank, and a pipe extending through said insulating base and opening into the bottom of the water heating tank and opening into the top of the storage tank for permitting the contents of the water heating tank being drawn off through the storage tank.

2,167,577

MOUNTING

Herman G. Klemm, Baltimore, Md., assignor to The Glenn L. Martin Company, Baltimore, Md.

Application January 30, 1937, Serial No. 123,093
2 Claims. (Cl. 248—5)



1. A flexible coupling comprising a housing, flanged resilient means supported within said housing, a tubular member projecting from said housing and having an enlarged end portion embraced by said flanged resilient means within said housing, and pneumatic means for urging said flanged resilient means into supporting engagement with said enlarged portion.

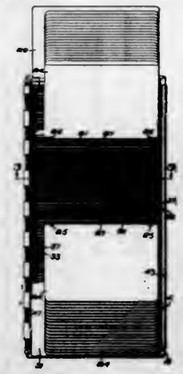
2,167,578

PAPER FILE

Raymond C. Finch, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y., a corporation of Massachusetts

Application June 30, 1938, Serial No. 216,737
6 Claims. (Cl. 129—16)

1. In a paper file, the combination of a mounting, a series of sheet-carriers whose ends are attached to said mounting and whose intermediate portions are separated from said mounting by a space, and positive locking means disposed within said space normally in position to serve as a positive lock to prevent detachment of said ends from said mounting, said means being mounted on said mounting for movement



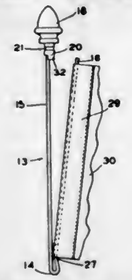
toward and from said position to lock and unlock said sheet-carriers.

2,167,579

FLAGSTAFF STRUCTURE

Albert B. Gardella, Cleveland, Ohio, assignor of one-half to George C. Guckes, Lakewood, Ohio

Application June 8, 1938, Serial No. 212,422
4 Claims. (Cl. 116—173)



1. A flagstaff structure, comprising a tubular staff member having a longitudinally disposed slot for the extension therethrough of a flag or the like having a hemmed edge, a generally U-shaped flag-carrying member adapted to be inserted into said tubular staff member with the free end portions of the two legs of said flag-carrying member uppermost, and a cap member adapted to be removably mounted on the upper end portion of said tubular staff member and to have secured thereto the free end portion of one of the legs of the flag-carrying member, the other leg of said flag-carrying member being adapted to have removably sleeved thereon the hemmed edge of a flag or the like.

2,167,580

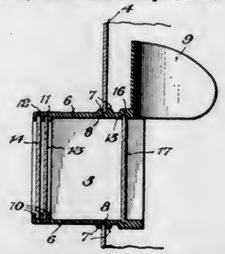
FACE PROTECTOR

Robert Malcom, Chicago, Ill.

Application June 22, 1937, Serial No. 149,759
2 Claims. (Cl. 2—8)

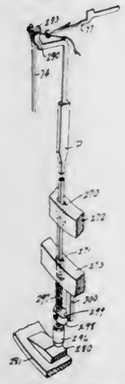
1. A face-shield comprising a facepiece of stiff sheet material having a sight opening, and an eyepiece of soft rubber in and conforming to said opening having an external groove in which the edge of said opening retentively engages, said eyepiece extending inside of said facepiece, and on the inner end of said eyepiece a wide flange

extending laterally therefrom and curved to conform generally to and adapted to rest against a



head part of the user and space said facepiece from his face, said eyepiece containing a lens.

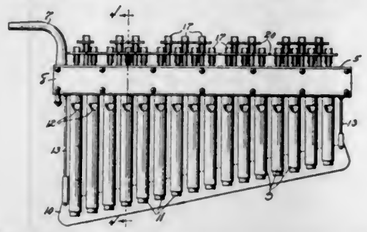
2,167,581
STITCH TRANSFER MECHANISM FOR KNITTING MACHINES
Harry McAdams, Reading, Pa., assignor to The Nolde and Horst Company, Reading, Pa., a corporation
Original applications December 1, 1934, Serial No. 755,621, and September 19, 1936, Serial No. 101,659. Divided and this application March 8, 1937, Serial No. 129,700
5 Claims. (Cl. 66—95)



5. A stitch transfer member for transferring the stitch from one needle to another comprising an elongated body portion having a right angled offset at the upper end thereof, said right angled offset at its outer end and spaced from the elongated body portion having a stitch lifting head thereon normal to the offset portion, said stitch lifting head being provided with lip means to guide the transfer member in relation to a stitch hung on a needle, said lip means having a stitch lifting shoulder thereon lying inwardly from the tip end of the head.

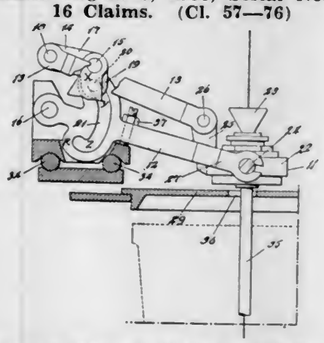
2,167,582
MUSICAL INSTRUMENT
Hugh A. McCord, Elk City, Kans.
Application December 28, 1937, Serial No. 182,059
2 Claims. (Cl. 84—330)

1. A wind-instrument of the character described, comprising a body provided with top and bottom walls and having an air chamber formed therein, a mouth-piece on said body for conducting respiratorily induced air into said chamber, a plurality of whistles mounted on said bottom wall and in communication with said chamber, valve members within said chamber and normally engaging said bottom wall, said members overlying said whistles and selectively operated for opening and closing the communication between said chamber and said whistles, means engaging said valve members for normally maintaining



the latter in overlying engagement with said bottom wall thereby closing communication between said whistles and said chamber, and keys carried by said body and pivotally mounted on said top wall for actuating said valve members whereby to permit respiratorily induced air in said chamber to sound said whistles selectively.

2,167,583
RAYON SPINNING MACHINE FUNNEL BRACKET
Henry James McDermott, Prospect Park, Pa., assignor to American Viscose Corporation, Marcus Hook, Pa., a corporation of Delaware
Application August 6, 1938, Serial No. 223,483
16 Claims. (Cl. 57—76)

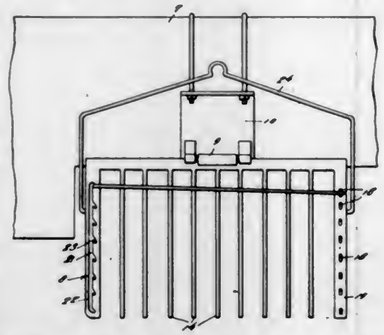


1. A funnel lifting bracket for a spinning machine comprising a pair of links, and a third link for supporting a funnel and pivoted to each of said first named links, in combination with a crank also connecting said first named links, and cooperating eccentric means associated respectively with one of said first named links and with an arm of said crank, to control the path of travel of the funnel.

2,167,584
TUBING RACK
George C. Moruc, Maud, Okla.
Application July 12, 1938, Serial No. 218,861
6 Claims. (Cl. 211—60)

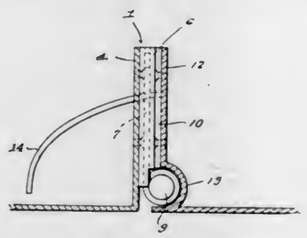
1. A tubing rack for derricks comprising a frame and laterally spaced parallel fingers mounted in the frame for receiving tubing therebetween, said frame embodying a pair of opposed end members one of which has a series of studs projecting upwardly therefrom and the other of which is provided with a longitudinal slot and a series of spaced slots opening into the longitudinal slot, and a retaining bar having a hook-equipped

end adapted to engage a selected one of said studs and an angularly headed end engaging in



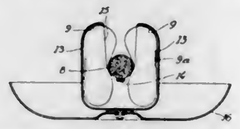
said longitudinal slot and adapted to be engaged with a selected one of the slots of said series of slots.

2,167,585
HINGE
Anthony J. Mulvaney, Jackson, Mich.
Application February 3, 1938, Serial No. 188,545
4 Claims. (Cl. 16—179)



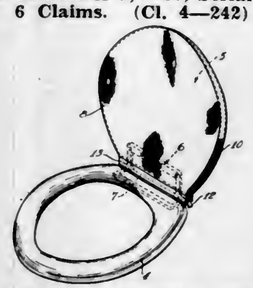
1. A hinge of the class described comprising a stationary guide, a leaf slidably mounted in said guide, a leaf pivotally mounted on the first named leaf, and an arcuate camming arm fixed on the second named leaf and said arm being operatively engaged with means on the guide for shifting the first named leaf in said guide when the second named leaf swings on its pivot.

2,167,586
DEVICE FOR HOLDING CIGARETTES AND CIGARS
Max Poege, Uster, near Zurich, Switzerland
Application February 24, 1937, Serial No. 127,541
In Germany September 27, 1935
5 Claims. (Cl. 131—240)



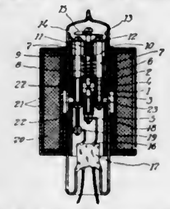
1. A holding device for cigarettes and cigars comprising, a plate on which the cigar or cigarette can be placed, rigid means having lateral supporting parts and two relatively thin spring bands forming two ring members which find an abutment against the lateral supporting part of said means, and said spring bands being constructed and arranged so that a cigarette or cigar placed between adjacent faces thereof will be clamped thereby.

2,167,587
COVER FOR TOILET SEAT COVERS
Maude Hardwick Rowe, Washington, D. C., assignor, by direct and mesne assignments, of one-fourth to Ralph L. Stevens, and one-fourth to Abner T. Rowe, Jr., both of Washington, D. C.
Application November 1, 1937, Serial No. 172,285
6 Claims. (Cl. 4—242)



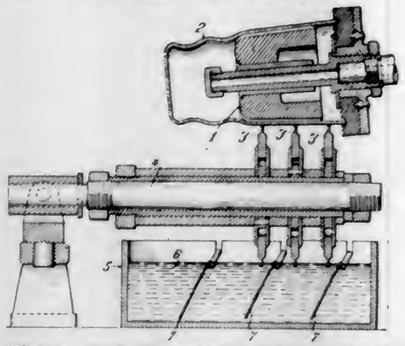
1. A covering for a toilet seat cover comprising a substantially flat double walled bag having an open end intersected by a body opening along one edge of sufficient size to permit the bag to be slipped over the seat cover, said bag otherwise being fully closed, and means for conveniently closing said opening.

2,167,588
ELECTROMAGNETICALLY OPERATED SWITCH
Ernst Rozumek, Berlin-Zehlendorf, Germany, assignor to Sun Vic Controls Limited, London, England, a British company
Application July 7, 1937, Serial No. 152,407
In Germany November 2, 1935
4 Claims. (Cl. 200—111)



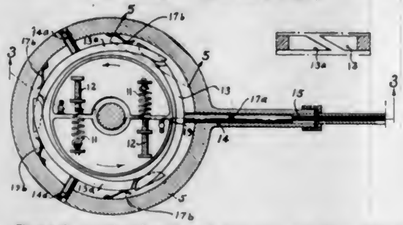
1. An electromagnetically operated switch comprising, an evacuated container, a fixed cylindrical pole-shoe arranged within the container with the entire length and entire circumference of the pole-shoe closely adjacent the wall of the container, a movable cylindrical armature arranged with the entire length and in its entire circumference closely adjacent the inner wall of the container, exciting windings outside the container, a conductor of lines of force arranged outside the container and extending over the approximate length of the armature and the pole-shoe and over a large part of the circumference of the glass container, a hollow insulating body secured to the pole-shoe and partly extending into the armature, a fixed contact secured in the insulating body, a movable contact, said insulating body having an opening therein through which the movable contact extends into the hollow space of the insulating body.

2,167,589
METHOD OF BANDING ARTICLES
Harold R. Schutz, Ottawa Hills, Ohio, assignor to Libbey Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 6, 1936, Serial No. 109,537
2 Claims. (Cl. 91—70)



1. The method of applying a band of colored material to an article which comprises heating the article to from 120° F. to 140° F. and while so heated rotatably mounting it and contacting its outer surface with a rotating film of coloring material of the width of the band desired and of diminishing thickness at its outer edges whereby the action of centrifugal force on the rotating film will cause the edges thereof to first contact the article, the film then moving into contact with the article from the edges to the center.

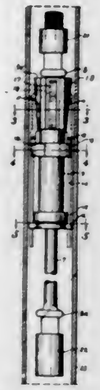
2,167,590
AUTOMOBILE SPEED CONTROL
George E. Slaugenhop, Vernon, Tex.
Application August 20, 1935, Serial No. 37,096
3 Claims. (Cl. 264—16)



1. Speed control means for an engine throttle comprising a housing having a longitudinally slotted extension, a drive member in the housing, governor weights carried by the drive member, a sectional ring comprising three sections encircling the governor weights, guide means between two sections of the ring and the housing, a bar connected to the other or middle section of the ring and mounted in the extension of the housing and having a transverse projection operable in the slot of said extension, a set screw, a spring between the set screw and said transverse projection, locking means for securing the set screw in adjusted position, and connecting means between said bar and engine throttle.

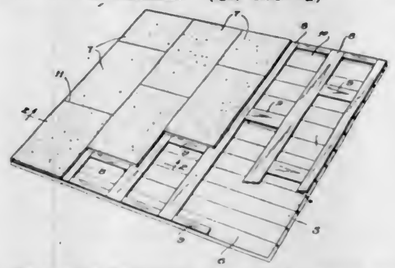
2,167,591
PUMP ROD GUIDE AND CHECK
George E. Slaugenhop, Vernon, Tex.
Application March 2, 1936, Serial No. 66,727
3 Claims. (Cl. 255—28)

1. A combined rod guide and check comprising a body adapted for insertion into a well casing and constructed for slidably receiving a pump rod therethrough, said body having a head at one end thereof and a lateral stop at the other end, said head having lateral inclined faces, a carrier slidably mounted on the body between the stop and



the head and having projections extending through the stop for preventing relative rotation, slips pivotally connected with the carrier in position to bear against the inclined faces, and friction means for holding the body in the well casing.

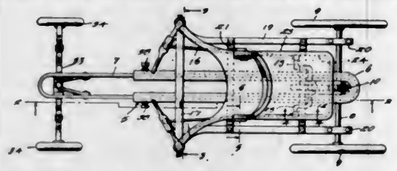
2,167,592
ROOF CONSTRUCTION
Harvey S. Smalley, Jr., Winthrop Harbor, Ill.
Application September 15, 1936, Serial No. 100,921
3 Claims. (Cl. 108—1)



1. In a roof structure, the combination with a base having a substantially flat upper surface, of a roofing material comprising a plurality of substantially rigid panels having their peripheral edges adjoining each other to form an imperforate layer over said base, and means for supporting said roofing material in spaced parallelism with said base, said supporting means comprising strips laid on said base and adhesively engaging marginal portions of adjoining panels of said roofing material whereby to form individual, isolated air pockets between said base and each panel of said roofing material.

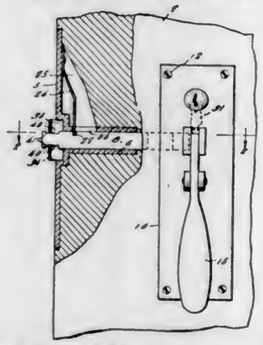
2,167,593
VEHICLE
Joseph M. Stover, Jr., Palouse, Wash.
Application April 13, 1938, Serial No. 201,833
1 Claim. (Cl. 280—248)

A device of the character described, comprising, a frame equipped with adjustable sections, a transversely extending member secured across one of said sections, a seat having an adjustable back mounted over said frame and provided with outwardly extending ends terminating over the ends of said member and defining a leg space therebetween, shafts mounted in said member and the ends of said seat, oar handles secured to



said shafts and extending in angular relation thereto and over said space, wheeled axles supporting said sections, and means connecting said shafts to one of said axles for operating the latter to propel said device in a manner to simulate a rowing operation.

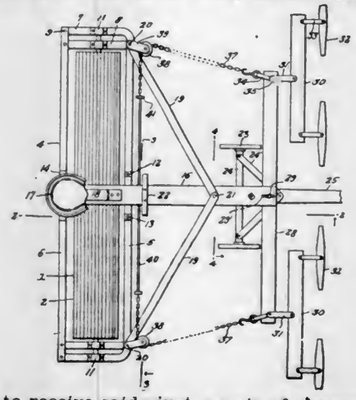
2,167,594
DOOR LATCH
Hugo J. Stratman, Terraville, S. Dak.
Application August 13, 1938, Serial No. 224,768
2 Claims. (Cl. 70—153)



1. In a latch of the character described, a spring projected bolt provided at one end thereof with a hook, and means for retracting the bolt including a slide member shiftable transversely to the length of said bolt and provided with an elongated slot accommodating the hook equipped end of the bolt, a dog pivotally mounted in proximity to said bolt and said slide and engaging the hook equipped end of said bolt, said slide also provided with a shorter slot, and said dog having an integral arm engaging in the second named slot whereby sliding movement of said slide is transmitted to said dog for swinging the same on its pivot, and oppositely disposed pivoted handles pivoted at one end thereof to the respective ends of said slide for shifting the latter in either of two directions, and in combination with a key operated lock having a bolt adapted to engage a groove in said slide for locking the latter against sliding movement.

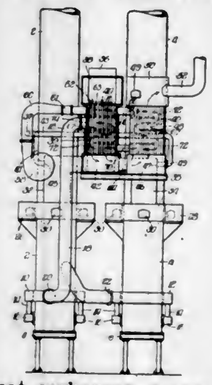
2,167,595
GROUND PULVERIZER
John J. Tipcke, Lake City, Minn.
Application June 25, 1938, Serial No. 215,894
1 Claim. (Cl. 55—21)

In an implement of the class described, an elongated roller having trunnions extending from opposite ends thereof, a rectangular frame surrounding said roller and having end bars on which said trunnions are journalled, said frame comprising front and rear bars, respectively, a pair brackets upstanding from said bars, respectively, in the center thereof and extending above said roller, a draft beam secured to said brackets and extending forwardly of the frame, a truck supporting the front end of said beam and pivoted thereon to trail behind said pivot, a draft tongue extending forwardly of said truck, a draft bar pivoted midway of its ends on the front end of said beam, the latter being slotted longitudi-



nally to receive said pivot, a pair of sheaves connected to said front bar adjacent opposite ends of the frame, a pair of chains having front ends secured to opposite ends of said draft bar and their rear ends trained around said sheaves, and a rod intermediate said sheaves and to the opposite end of which said rear ends of the chain are connected, said rod having headed ends adapted to engage said sheaves under unequal draft on opposite ends of said draft bar respectively, and said chains, sheaves and rods preventing forward movement of the pivot of the draft bar in the slot of said beam.

2,167,596
PROCESS AND APPARATUS FOR OPERATING A PRIMARY FURNACE
Frederick K. Vial, Chicago, Ill., assignor to Griffin Wheel Company, Chicago, Ill., a corporation of Massachusetts
Application December 2, 1937, Serial No. 177,715
7 Claims. (Cl. 266—14)



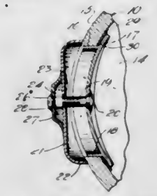
1. In a heat exchanger, a pre-heater having

adjacent hot and cold ends and interlaced passageways therebetween for conducting hot and cold gases respectively, said cold gas passageway comprising an entrance to the cold end of said pre-heater through an independent passageway at the hot end thereof, and an exit adjacent said entrance at said hot end.

2,167,597
CLEAN-OUT CLOSURE FOR TOILET BOWLS

Benjamin F. Webb, Weston, W. Va.

Application June 21, 1938, Serial No. 215,021
1 Claim. (Cl. 4—257)

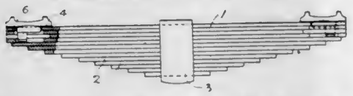


In a toilet bowl provided with a clean-out opening in the front wall thereof communicating with the trap, a closure for said opening comprising concavo-convex plate engageable against the inner face of the front wall and having a size substantially greater than the size of the opening, a flange carried by said plate snugly engaging in said opening, a threaded bolt fixed to the central portion of said plate, a flanged cover provided with a bolt opening, a holding means threaded onto said bolt for clamping the cover against the outer side of said front wall and simultaneously clamping said plate against the inner side of said front, a shield about said holding means, and a screw threaded into said bolt for holding said shield in applied position.

2,167,598
LEAF SPRING

Theodore R. Weber, Latrobe, Pa., assignor to American Locomotive Company, New York, N. Y., a corporation of New York

Application May 14, 1938, Serial No. 207,863
10 Claims. (Cl. 267—54)



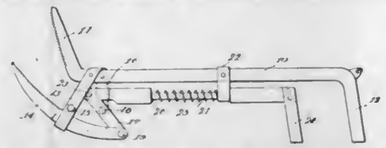
1. The combination with a leaf spring having an exterior face and a receptacle extending from said face, said receptacle being provided with a shoulder extending from a longitudinal side wall thereof toward the opposite side wall and terminating part way across said receptacle, said shoulder facing away from said face, of a clip comprising a body disposed opposite said face, a lug extending from said body into said receptacle, and a flange projecting laterally from said lug, providing a shoulder facing toward said body and extending toward said longitudinal side wall, opposed to and in locking relation with said receptacle shoulder for preventing removal of said clip, said receptacle shoulder being disposed between said flange and said body.

2,167,599
CAR COUPLING TOOL

Rudolph R. Yanits, Youngstown, Pa.

Application April 4, 1939, Serial No. 266,025
1 Claim. (Cl. 294—18)

A car coupling tool comprising an elongated shank, an upwardly and forwardly extending fixed jaw at the front end of the shank, a downwardly and rearwardly extending handle at the rear of the shank, a guide secured to and extending downwardly and forwardly from the front end of the shank, a curved movable jaw slidably mounted in the guide, said movable jaw contacting with the closed end of the guide, a roller carried by the guide engaging the movable jaw on the opposite side thereof from the closed end of the guide, a lug extending downwardly from the shank near the guide, a lever pivoted between its

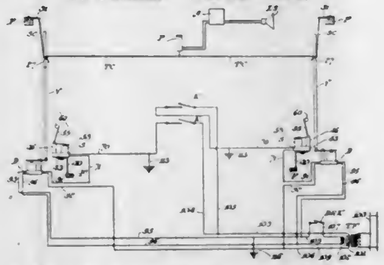


ends to the lug, the lower end of the lever being pivotally connected to the rear end of the movable jaw, an operating rod for the movable jaw located at the lower side of the shank and slidably mounted in a second guide, said rod being pivoted at its front end to the upper end of the lever and being provided at its rear end with a handle disposed parallel with the shank handle, and a coil spring sleeved on the rod between the second guide and a shoulder formed on the rod and normally holding the movable jaw in open position with relation to the fixed jaw.

2,167,600
APPARATUS FOR PRODUCING MUSICAL SOUNDS

Arthur N. Gardiner, Stratford, N. J.

Application June 9, 1936, Serial No. 84,253
16 Claims. (Cl. 84—1.04)



1. A musical instrument comprising a vibrant member having the characteristic of fundamental and overtone vibration, and a support for said member for supporting said member as a free pendant member, said support being secured to said member at a location spaced a short distance from a node of the fundamental vibration, and a device forming part of said support and attached to said vibrant member for transferring the physical vibrations of the member at the point of attachment of the device, structure spaced from said vibrant member for converting the transferred physical vibrations into electrical impulses, and amplifying devices therefor.

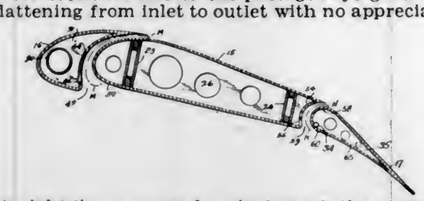
2,167,601
AIRFOIL

William K. Rose, New York, N. Y.

Application January 18, 1937, Serial No. 121,101
13 Claims. (Cl. 244—42)

1. An airfoil for an airplane provided with a plurality of vanes or blades forming one or more substantially spanwise passageways extending

through the airfoil from the lower surface to the upper surface thereof, the vanes or blades being formed with cooperating curved surfaces and being so constructed and arranged that the said passageways have their inlet ports at the bottom of the airfoil to the front of the outlet ports at the top of the airfoil with the cross-sections of the passageways diminishing gradually from the inlet to the outlet thereof and the mean cross-sectional line of the passageways gradually flattening from inlet to outlet with no appreciable

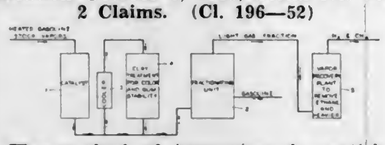


straight line passage for air through the passageways from inlet to outlet, the curved surfaces of the cooperating vanes or blades of each passageway extending rearwardly at the bottom and the forward vane or blade extending downwardly below the lower surface of its cooperating rearward vane or blade, the downwardly extending vane or blade on the flight of the airplane tending to induce an eddy current of air to the rear thereof in a forward direction along the under surface of the airfoil.

2,167,602
TREATMENT OF HYDROCARBON OILS

Walter A. Schulze, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application October 6, 1936, Serial No. 104,306
2 Claims. (Cl. 196—52)



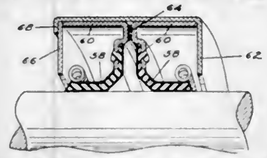
1. The method of improving the anti-knock characteristics of a gasoline stock and producing a gas with a hydrogen to methane ratio greater than one, which comprises containing the gasoline stock in the vapor form at a pressure between atmospheric and 100 pounds per square inch with a bauxite catalyst at a temperature in the range of 900 to 1050° F. and a flow rate of about 1 to 10 liquid volumes of gasoline stock per hour per volume of catalyst, cooling the vapors and separating by condensation the gasoline hydrocarbons from the uncondensed gas, and passing the uncondensed gas through a vapor recovery system whereby the hydrocarbons other than methane are substantially completely removed and a gas with a hydrogen to methane ratio greater than one is obtained.

2,167,603
GREASE RETAINER WITH UNITARY DIAPHRAGMS AND SUPPORTS

Joseph B. Victor, Oak Park, Ill., assignor to Victor Manufacturing & Gasket Company, Chicago, Ill., a corporation of Illinois

Application November 6, 1936, Serial No. 109,499
2 Claims. (Cl. 288—3)

1. A composite fluid seal, including an outer metal shell, a pair of packing elements positioned in the shell, each packing element having a flat radially extending portion, and a metallic supporting element for each packing element together with a molded joint between the radially extending portion of each packing and its supporting element, said supporting elements each comprising a cup-shaped shell with an offset inner flange for contact with the packing element, and means for mounting said shells in fluid-tight relationship in the outer shell, said means in-



cluding a packing washer interposed between the abutting faces of the said shells, and a spun-over edge on the outer shell for retaining the inner shells and said packing washer in desired relationship.

2,167,604
WATCH MOVEMENT

Henri Thiebaud, Bienne, Switzerland, assignor to firm Gruen Watch Mfg. Co. (A.-G.), Bienne, Switzerland

Application October 5, 1936, Serial No. 104,034
In Switzerland August 25, 1936
8 Claims. (Cl. 58—59)

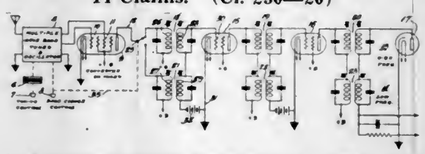


2. In a watch movement, a spring barrel wheel, a second wheel meshing with said barrel wheel, a spindle having a minute-hand secured thereto and having thereon a pinion meshing with said barrel wheel, an arbor rotatably supported in said spindle and having a seconds-hand secured thereto, a pinion on said arbor, and drive connection between said second wheel and said last mentioned pinion.

2,167,605
INTERMEDIATE FREQUENCY AMPLIFIER SYSTEM

Wendell L. Carlson, Haddonfield, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application December 18, 1937, Serial No. 180,490
14 Claims. (Cl. 250—20)



1. An intermediate frequency amplifier system for multiple wave band receivers, comprising means providing two intermediate frequency amplifying channels, means for tuning said channels to a lower and a higher intermediate frequency, the higher intermediate frequency falling between two of the harmonics of the lower intermediate frequency, and a plurality of amplifier tubes connected to operate jointly with both of said channels.

2,167,606

PROCESS FOR PRODUCING AERATED CEMENTITIOUS COMPOSITIONS AND ARTICLES

Conrad Gérard François Cavadino, Rochester, England, assignor to Gyproc Products Limited, London, England, a British limited-liability company, and himself

No Drawing. Application November 17, 1937, Serial No. 175,031. In Great Britain August 18, 1936

8 Claims. (Cl. 106—24)

1. Process for producing aerated cementitious compositions and articles made therefrom, comprising the steps of mixing together cementitious material, barium peroxide, an acid substance selected from the group consisting of hydrochloric acid, nitric acid and the mixtures of hydrochloric with nitric acid, a compound selected from the group consisting of manganese peroxide, the alkali metal permanganates, chromic acid and the chromic acid salts, and sufficient water to form a semi-fluid mixture, and stirring the mixture to promote dispersion throughout the semi-fluid mixture of the evolved oxygen, the proportions of the several reagents being such as to result in the evolution of oxygen in a nascent form.

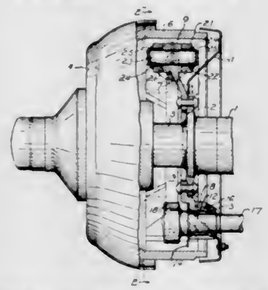
2,167,607

BRAKE MECHANISM

Herbert W. Alden, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio

Application February 10, 1939, Serial No. 255,772

9 Claims. (Cl. 188—78)



1. In a brake mechanism, a drum member having an internal cylindrical braking surface; a rigid brake shoe within said drum having a curved external surface whose radius of curvature is less than the radius of curvature of the braking surface of said drum; means so pivoting said shoe as to cause the center of curvature of said external surface to move along an arc intersecting the center of said drum; a curved lining unit adapted for frictional cooperation with the braking surface of said drum and having an internal surface conforming exactly to, and supported upon the external surface of said shoe; and means for securing said lining unit to said shoe in full surface engagement therewith, comprising a plurality of circumferentially spaced fastening elements secured to said shoe and each projecting a uniform distance into said lining unit; the outer ends of said fastening elements defining an arc concentric to the external surface of said shoe and having a radius of curvature the same as the radius of curvature of the braking surface of said drum, whereby, when said lining unit wears away the outer ends of said fastening elements will be brought into engagement with said braking surface simultaneously and maximum use made of the lining material.

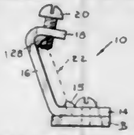
2,167,608

ELECTRICAL CONNECTING DEVICE

Louis W. Cole, New York, and Christopher I. Smith, Sunnyside, Long Island, N. Y., assignors to Cole Electric Products Co. Inc., Long Island City, N. Y., a corporation of New York

Application March 10, 1938, Serial No. 195,034

18 Claims. (Cl. 200—134)



1. An electrical connector comprising a member having a flat side wall and portions disposed laterally of said side wall, said laterally disposed portions being spaced from each other and arranged in confronting relation defining with said flat side wall a recess open at one side for the insertion therein of a conductor in position with one side of the latter in contact with said side wall and with one of its edge portions in engagement with one of said confronting portions, the other of said confronting portions having an opening therethrough, and means adjustably secured in said opening and engageable with the opposite edge portion of said conductor for releasably clamping the latter in said position.

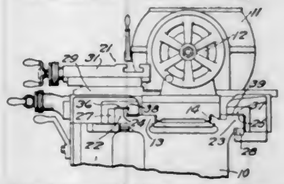
2,167,609

MACHINE SLIDEWAY

William Lodge Dolle, Cincinnati, Ohio, assignor to The Lodge & Shipley Machine Tool Company, Cincinnati, Ohio, a corporation of Ohio

Application March 4, 1938, Serial No. 193,953

16 Claims. (Cl. 82—32)



1. In a machine of the character described, the combination of a relatively stationary supporting member and a relatively slidable supported member, a hardened slide piece on said supported member, a guideway on said supporting member of relatively less hardness than said hardened slide piece, and said hardened slide piece having an end cutting edge so disposed with relation to the surface of said guideway as to have a shearing action in its movement along said guideway on particles imbedded therein.

2,167,610

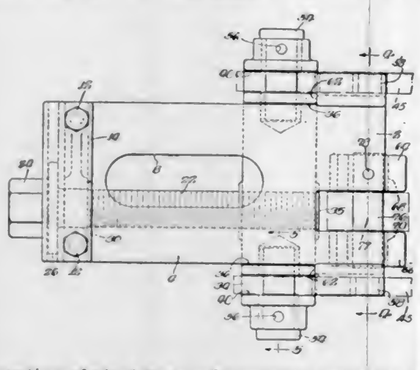
SLACK ADJUSTER

Wesley Helsten, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application December 18, 1937, Serial No. 180,476

15 Claims. (Cl. 188—197)

1. In a manual slack adjuster a housing having a closed end and top and bottom walls extending therefrom, an end block joining said walls at the open end of said housing, a slidable block positioned between said walls, and a screw journaled in said end block with a head portion in abutment with said end block outwardly thereof and a shank having threaded engagement with said slidable block for adjustment thereof, spaced integral lugs at the closed end of said housing, aligned openings in said lugs, pivotal means in said opening for securing an associated brake lever, said slidable block having jaw means at each end thereof with aligned openings for the



reception of pivot means for securing wheel straps on opposite sides of said brake lever, and guide means for said straps on said top and bottom walls adjacent the closed end of said housing.

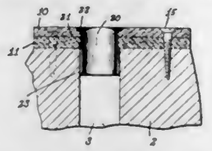
2,167,611

SHOE LAST AND PROTECTOR THEREFOR

Paul S. Jones, Brockton, Mass., assignor to Jones & Vining, Inc., Brockton, Mass., a corporation of Massachusetts

Application April 9, 1938, Serial No. 201,147

3 Claims. (Cl. 12—139)



1. A last for use in the manufacture of boots and shoes, having a plurality of protecting layers for the cone of the last united by a tubular rivet said rivet being unattached to the last, and secured to said last by attachment of said protecting layers to the last.

2,167,612

LUBRICANT

Gus Kaufman, Beacon, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware

No Drawing. Application July 25, 1936, Serial No. 92,639

10 Claims. (Cl. 87—9)

1. A mineral oil product comprising a hydrocarbon lubricating oil admixed with a separately sulfurized base prepared by heating sulfur with naphthenic acids separated from petroleum oil.

2,167,613

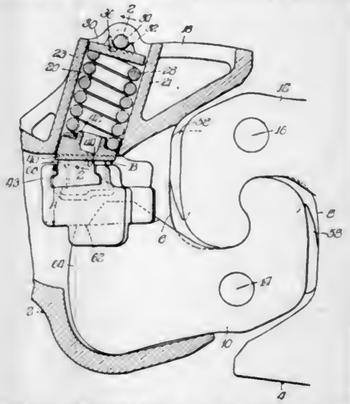
COUPLER STRUCTURE

Edmund P. Kinne and Elmer J. Greenawalt, Alliance, Ohio, assignors to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application December 6, 1937, Serial No. 178,195

22 Claims. (Cl. 213—148)

1. In a railway car coupler having a normal contour, a pivoted knuckle having a nose portion forming a part of said contour, a guard arm opposite said knuckle forming another part of said contour, resilient means housed in said guard arm, a locking plate seated against said resilient means, and a lock positioned between said locking plate and the tail of said knuckle to retain said knuckle in its closed position, said lock carrying means adjustable by gravity to vary the width thereof and being vertically movable to permit rotation of said knuckle from closed to open position, said locking plate being laterally movable in said coupler under the influence of said resilient means to vary the locking position of said lock and modify said contour.



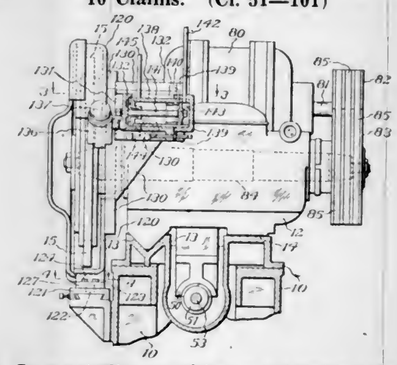
2,167,614

CAM GRINDING APPARATUS

Herbert A. Silven, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application December 27, 1937, Serial No. 181,783

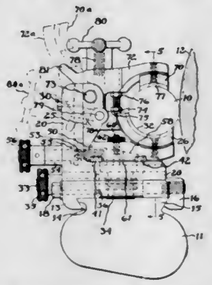
10 Claims. (Cl. 51—101)



1. In a grinding machine, a rotatable grinding wheel, a transversely movable wheel slide therefor, a longitudinally movable work table, a longitudinally reciprocable truing tool, each of which is operated by a separate fluid motor, a main control valve in control of the work table and truing tool motors, a feed control valve in control of said wheel slide motor and main control valve, a pilot and reversing valve interposed between the main control valve and the table motor to control the direction of movement of the table, and to control the admission of fluid to said truing tool motor, and a slow speed valve actuated by said table movement to slow down the table at the end of its

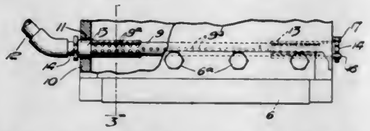
travel, said slow speed valve being arranged to serve as a stop and start valve for said truing tool motor.

2,167,615
GRINDING MACHINE STEADY REST
Herbert A. Silven, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application May 13, 1938, Serial No. 207,665
5 Claims. (Cl. 51—238)



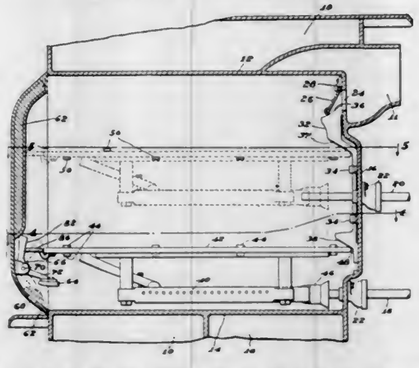
1. In a grinding machine steady rest, a base, a transversely movable slide thereon, a vertically movable slide on said first slide, a steady rest shoe fixedly supported on said second slide and having a partial cylindrical work steadying surface thereon, means to adjust the first slide transversely, means to adjust the second slide vertically relative to the first slide accurately to position said steady rest shoe, an upper shoe arranged diametrically opposed to the lower shoe, a pivotal support for said shoe on the vertical slide, and means including a pivotally mounted screw to lock said pivotal support and upper shoe in operative position with relation to the lower shoe.

2,167,616
METAL POT FOR SLUG CASTING MACHINES
Le Roy W. Willis, Stamford, Conn., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Application September 15, 1938, Serial No. 230,110
3 Claims. (Cl. 22—71)



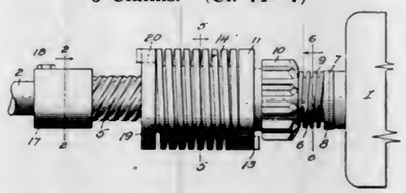
1. In a slug casting machine having a metal pot with an elongated mouthpiece, a single gas burner extending longitudinally beneath the mouthpiece and having a greater heating capacity toward its ends than along its central portion for normally supplying heat along all portions of the mouth piece and to normally supply more heat at at least one end thereof than along the remaining portion thereof, and an adjustable member having stop means for setting it in one or the other of two different positions of adjustment to vary the heating capacity of the burner at said end thereof to respectively permit a normal supply of heat at said end of the mouthpiece or to reduce such supply to an amount substantially equal to the supply along the remaining portion thereof independent of the source of supply of gas thereto.

2,167,617
STOVE
Bernard Field, Brookline, and Maurice F. Walsh, Wakefield, Mass., assignors to Boston Stove Foundry Company, Reading, Mass., a corporation of Massachusetts
Application May 26, 1937, Serial No. 144,792
4 Claims. (Cl. 126—36)



3. In a stove, an oven having a back wall, a door for said oven, a plate having a gas burner mounted thereon and movable into a lower baking position and into an upper broiling position in said oven, inlet and exhaust dampers for said oven, one of said dampers being disposed at the front of said oven, the other of said dampers being disposed in the back wall of said oven, means cooperating with said plate to open said back wall damper by the act of positioning said plate in either of said positions, and means cooperating with said plate to open said other damper when said plate is in said lower position, by the act of closing said door, and means to prevent closing of said door when said plate is in said upper position.

2,167,618
FULL FLOATING STARTING DEVICE
William Lingo, Pasadena, Calif.
Application September 14, 1936, Serial No. 100,727
3 Claims. (Cl. 74—7)

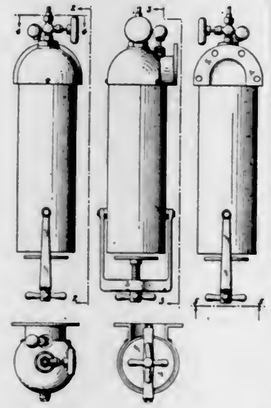


1. A starter drive comprising a starter pinion, a sleeve extending through the starter pinion and journaled on a starter motor shaft, a feed sleeve mounted on the starter motor shaft, a quick detachable means securing the feed sleeve to the shaft, a feed nut operating on the feed sleeve, a drive spring connected to the feed nut and to the starter pinion, a coiled core spring engaging the feed nut and the starter pinion within the drive spring and having the convolutions thereof of a greater width than the convolutions of the drive spring, a stop collar formed on the feed sleeve to be abutted by the feed nut, a flange formed on the first-named sleeve, a cushion seat on said last-named flange, and a coiled spring between the cushion seat and the starter pinion.

DESIGNS

JULY 25, 1939

115,827
DESIGN FOR A CARBONATOR
Elwyn A. Arnold, San Francisco, Calif.
Application April 5, 1939, Serial No. 84,045
Term of patent 7 years



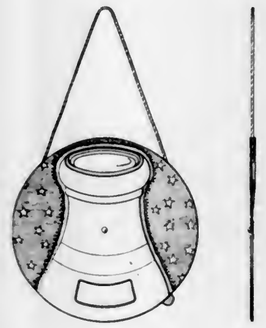
The ornamental design for a carbonator, substantially as shown and described.

115,828
DESIGN FOR A GLASS CREAM PITCHER OR ARTICLE OF SIMILAR NATURE
Ferdinand S. Barbiers, Lancaster, Ohio, assignor to Anchor-Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application May 13, 1939, Serial No. 84,980
Term of patent 7 years



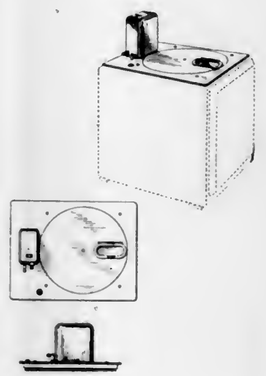
The ornamental design for a glass cream pitcher or article of similar nature, substantially as shown.

115,829
DESIGN FOR A CHANGEABLE ORDER PLACARD
Morris A. Blitzer, New York, N. Y.
Application June 30, 1938, Serial No. 78,182
Term of patent 3½ years



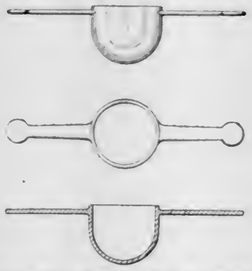
The ornamental design for a changeable order placard, as shown.

115,830
DESIGN FOR A BOTTLE VENDING MACHINE
Joseph E. Hagstrom, Kansas City, Mo., assignor to The Vendo Company, Kansas City, Mo., a corporation of Missouri
Application October 31, 1938, Serial No. 80,789
Term of patent 14 years



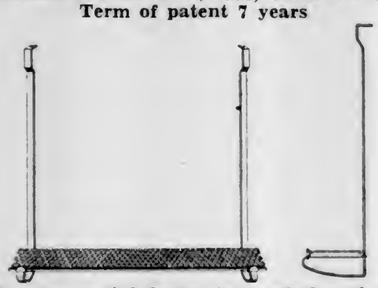
The ornamental design for a bottle vending machine, as shown.

115,831
DESIGN FOR A MEASURING CONTAINER
Harold B. Kaempf, New York, N. Y.
Application May 23, 1939, Serial No. 85,170
Term of patent 14 years



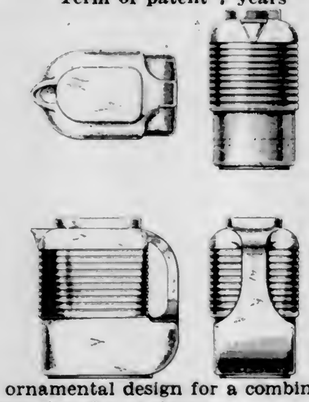
The ornamental design for a measuring container, as shown.

115,832
DESIGN FOR A WINDOW SHELF
Roderick M. Koch, Evansville, Ind.
Application December 28, 1938, Serial No. 82,013
Term of patent 7 years



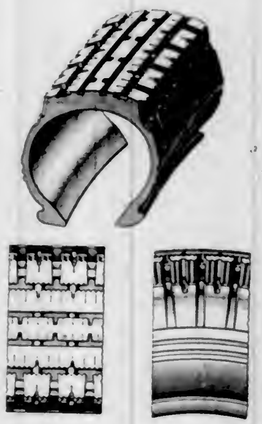
The ornamental design for a window shelf, as shown.

115,833
DESIGN FOR A COMBINED PITCHER AND COVER THEREFOR
Ralph E. Kruck, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Application January 10, 1939, Serial No. 82,270
Term of patent 7 years



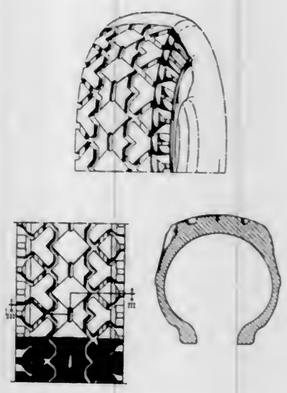
The ornamental design for a combined pitcher and cover therefor as shown.

115,834
DESIGN FOR A TIRE
Leonard John Lambourn, Erdington, Birmingham, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York
Application May 6, 1939, Serial No. 84,852
In Great Britain December 24, 1938
Term of patent 14 years



The ornamental design for a tire, as shown.

115,835
DESIGN FOR A PNEUMATIC TIRE
Ralph S. Lombard, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 14, 1939, Serial No. 82,979
Term of patent 14 years



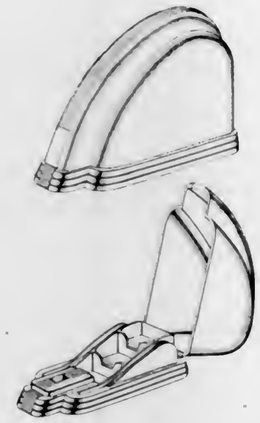
The ornamental design for a pneumatic tire, as shown.

115,836
DESIGN FOR A GAME BOARD
John J. Maji, Omaha, Nebr.
Application February 17, 1939, Serial No. 83,052
Term of patent 14 years



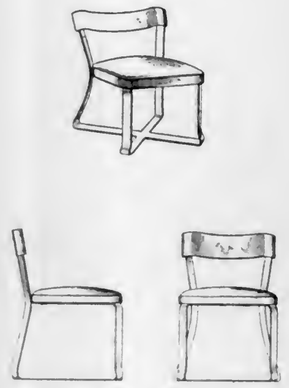
The ornamental design for a game board, substantially as shown and described.

115,837
DESIGN FOR A CONTAINER FOR TOILET ARTICLES OR THE LIKE
William B. Petzold, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 10, 1939, Serial No. 84,913
Term of patent 14 years



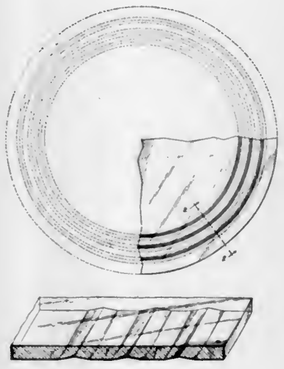
The ornamental design for a container for toilet articles or the like substantially as shown.

115,838
DESIGN FOR A CHAIR
Walther Prokosch, New York, N. Y.
Application March 25, 1939, Serial No. 83,816
Term of patent 7 years



The ornamental design for a chair, as shown.

115,839
DESIGN FOR A MIRROR
Sebet Silverman, Atlantic City, N. J., assignor to The Nurre Companies, Inc., Egg Harbor City, N. J., a corporation of Indiana
Application April 5, 1939, Serial No. 84,061
Term of patent 7 years



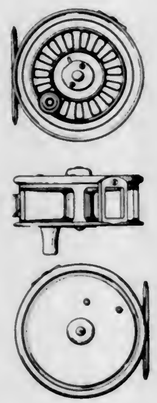
The ornamental design for a mirror, as shown and described.

115,840
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Albert M. Walker, Akron, Ohio, assignor to The Bailey-Walker China Company, Bedford, Ohio, a corporation of Ohio
Application January 6, 1939, Serial No. 82,205
Term of patent 7 years



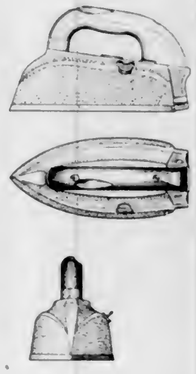
The ornamental design for a plate or similar article, as shown and described.

115,841
DESIGN FOR A FISHING REEL
James Robert Young and Howard Young, Mayfield, Redditch, England
Application December 12, 1938, Serial No. 81,733
In Great Britain November 19, 1938
Term of patent 7 years



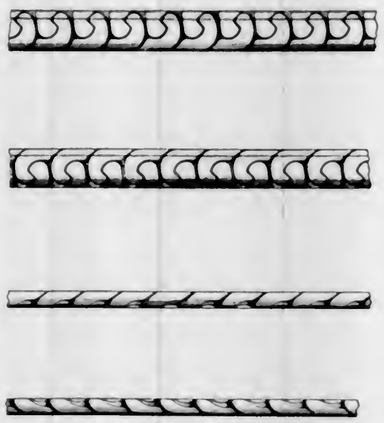
The ornamental design for a fishing reel, as shown.

115,842
DESIGN FOR A STEAM GENERATING ELECTRIC SADIRON
Bernard Altman, New York, and Paul Stiller, Bronx, N. Y.
Application May 3, 1939, Serial No. 84,773
Term of patent 7 years



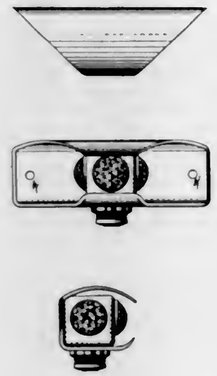
The ornamental design for a steam generating electric sadiron, substantially as shown.

115,843
DESIGN FOR A CHAIN
Eugen Augenstein, Pforzheim, Germany, assignor to Universal Chain Co., Inc., Maplewood, N. J., a corporation of New Jersey
Application August 4, 1938, Serial No. 79,096
Term of patent 7 years



The ornamental design for a chain, as shown.

115,844
DESIGN FOR A COMBINATION CLEARANCE AND SIDE MARKER LAMP FOR MOTOR VEHICLES
George F. Burgess, Cleveland, Ohio
Application May 25, 1939, Serial No. 85,200
Term of patent 7 years



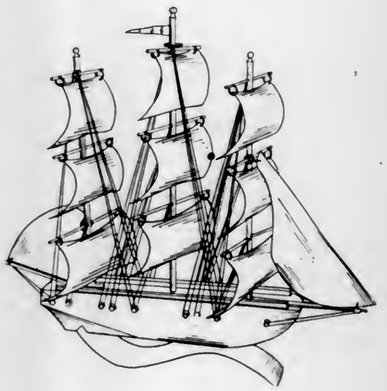
The ornamental design for a combination clearance and side marker lamp for motor vehicles, as shown.

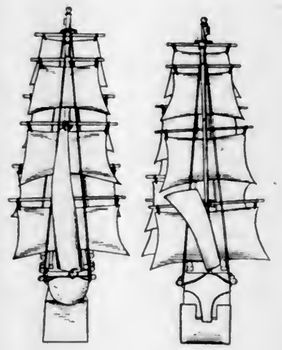
115,845
DESIGN FOR A MIRROR BACK OR SIMILAR ARTICLE
Roger Conant, New York, N. Y., assignor to Prophy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware
Application February 4, 1939, Serial No. 82,780
Term of patent 3½ years

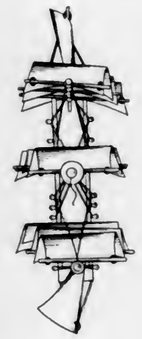


The ornamental design for a mirror back or similar article, substantially as shown and described.

115,846
DESIGN FOR A MANTELPIECE-ORNAMENT OR SIMILAR ARTICLE
Irving Defren, Brooklyn, N. Y.
Application May 3, 1939, Serial No. 84,750
Term of patent 3½ years

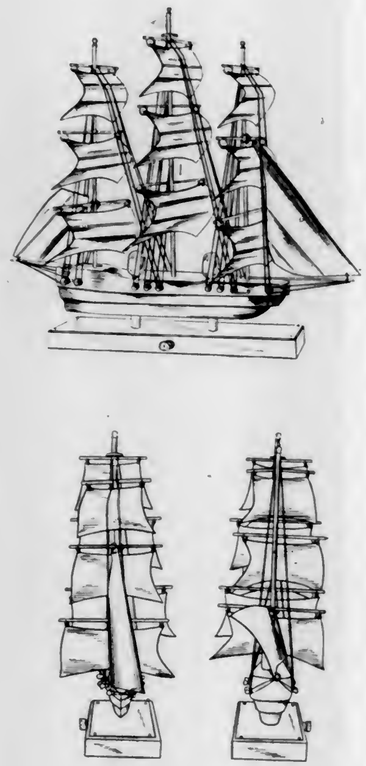






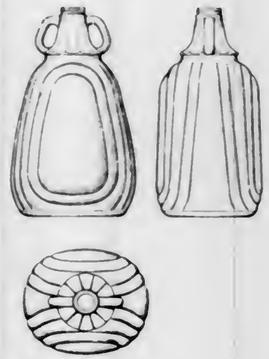
The ornamental design for a mantelpiece-ornament or similar article, substantially as shown.

115,847
DESIGN FOR A MANTELPIECE-ORNAMENT OR SIMILAR ARTICLE
Irving Defren, Brooklyn, N. Y.
Application May 3, 1939, Serial No. 84,751
Term of patent 3½ years



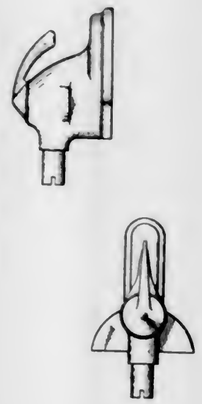
The ornamental design for a mantelpiece-ornament or similar article, substantially as shown.

115,848
DESIGN FOR A JUG
Brooks D. Fuerst, Toledo, Ohio, assignor to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio
Application May 20, 1939, Serial No. 85,105
Term of patent 14 years



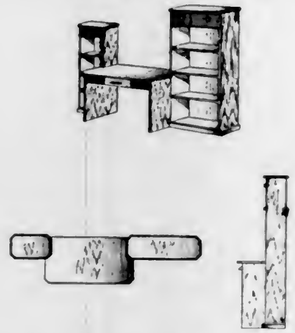
The ornamental design for a jug, substantially as shown.

115,849
DESIGN FOR A WRINGER HEAD
Andrew H. Gerhardt, Chicago, Ill., assignor to Electric Household Utilities Corporation, Chicago, Ill., a corporation of Illinois
Application June 4, 1938, Serial No. 77,582
Term of patent 3½ years



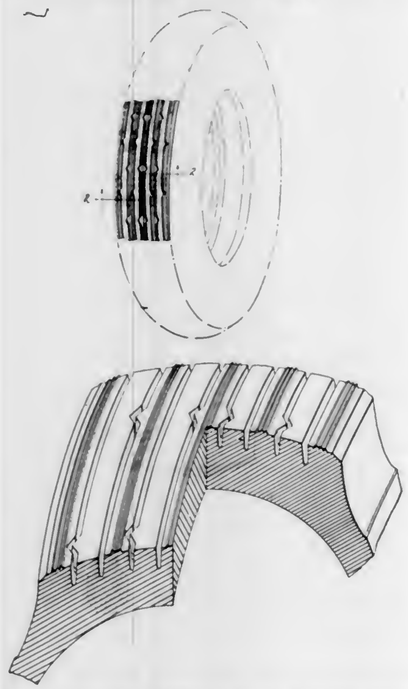
The ornamental design for a wringer head, substantially as shown.

115,850
DESIGN FOR A COMBINED DESK AND BOOKCASE
Irving Greenfield, Newark, N. J., assignor of one-half to Ferdinand W. Schmidt, Maplewood Township, N. J.
Application April 20, 1939, Serial No. 84,426
Term of patent 3½ years



The ornamental design for a combined desk and bookcase, as shown.

115,851
DESIGN FOR AN AUTOMOBILE TIRE
Harry C. Hower, Chicago, Ill.
Application September 2, 1937, Serial No. 71,432
Term of patent 7 years



The ornamental design for an automobile tire, as shown and described.

115,852
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y.
Application June 9, 1939, Serial No. 85,411
Term of patent 3½ years



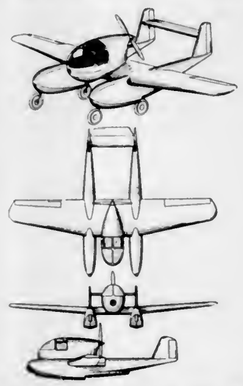
The ornamental design for a brooch or similar article, substantially as shown.

115,853
DESIGN FOR A DECORATIVE NAIL
Jack Keller, New York, N. Y.
Application March 6, 1939, Serial No. 83,357
Term of patent 3½ years



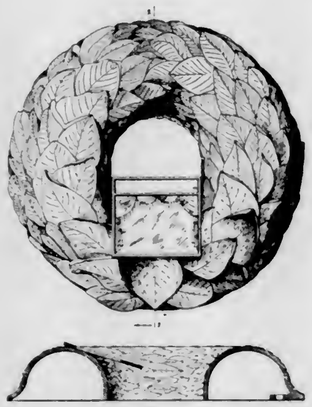
The ornamental design for a decorative nail, substantially as shown.

115,854
DESIGN FOR AN AIRPLANE
Flavius Earl Loudy, Hempstead, N. Y.
Application March 18, 1939, Serial No. 83,671
Term of patent 3½ years



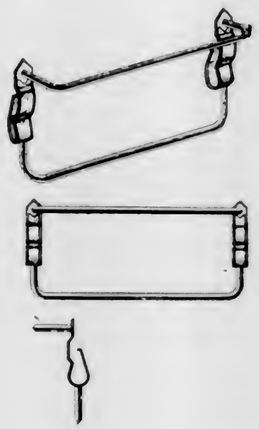
The ornamental design for an airplane, substantially as shown and described.

115,855
DESIGN FOR A METALLIZED FUNERAL WREATH
Wayne L. Mallett, Valparaiso, Ind.
Application March 7, 1939, Serial No. 83,409
Term of patent 14 years



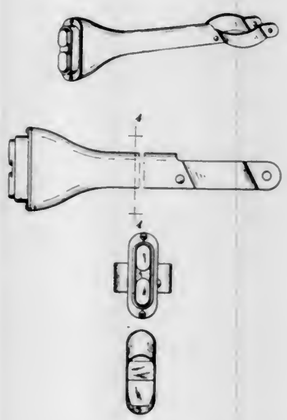
The ornamental design for a metallized funeral wreath, as shown.

115,856
DESIGN FOR A DETACHABLE TOWEL RACK OR SIMILAR ARTICLE
Roy S. Sanford, Oakville, Conn., assignor to The Autoyre Company, Incorporated, Oakville, Conn., a corporation of Connecticut
Application May 15, 1939, Serial No. 84,993
Term of patent 14 years



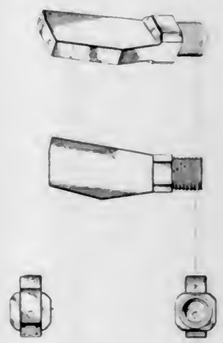
The ornamental design for a detachable towel rack or similar article, substantially as shown and described.

115,857
DESIGN FOR A PUSH BUTTON SWITCH
Theodore J. Scofield, Jackson, Mich., assignor to The Sparks-Withington Company, Jackson, Mich., a corporation of Ohio
Application October 17, 1938, Serial No. 80,511
Term of patent 7 years



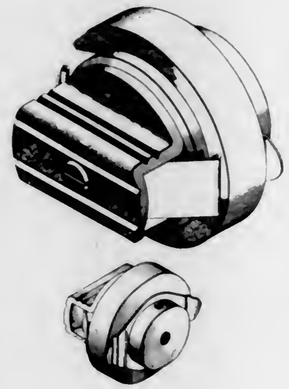
The ornamental design for a push button switch, substantially as shown.

115,858
DESIGN FOR A MULTIPLE FLAME WELDING TIP
Marvin R. Scott, Elizabeth, N. J., assignor to Oxweld Acetylene Company, a corporation of West Virginia
Application December 13, 1938, Serial No. 81,761
Term of patent 14 years



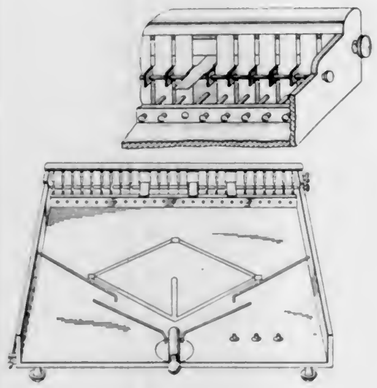
The ornamental design for a multiple flame welding tip, substantially as shown.

115,859
DESIGN FOR A RECORDER CHART HUB
Norman J. Smith, Medfield, Mass., assignor to Crosby Steam Gage & Valve Company, Boston, Mass., a corporation of Massachusetts
Application March 25, 1939, Serial No. 83,823
Term of patent 14 years



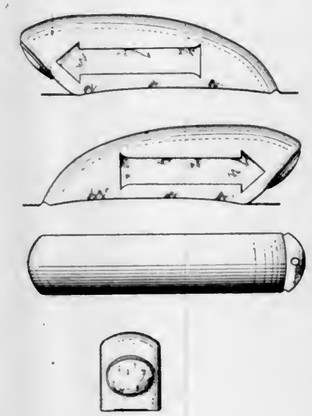
The ornamental design for a recorder chart hub, substantially as shown.

115,860
DESIGN FOR A BASEBALL GAME DEVICE
Harry K. Surbeck, Cleveland, Ohio
Application October 6, 1938, Serial No. 80,290
Term of patent 3½ years



The ornamental design for a baseball game device, as shown.

115,861
DESIGN FOR A FENDER DIRECTION SIGNAL LAMP
William F. Terry, Washington, D. C.
Application June 1, 1939, Serial No. 85,298
Term of patent 7 years



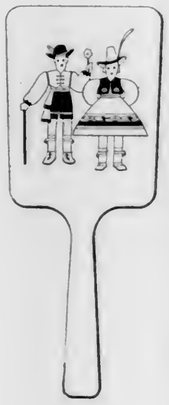
The ornamental design for a fender direction signal lamp, as shown.

115,862
DESIGN FOR A CARRYING CASE
Georg Wenger, New York, N. Y., assignor to Georg Wenger Corporation, New York, N. Y., a corporation of New York
Application April 8, 1939, Serial No. 84,157
Term of patent 7 years



The ornamental design for a carrying case, as shown and described.

115,863
DESIGN FOR A MIRROR BACK OR SIMILAR ARTICLE
Norma S. Whiting, South Hadley, Mass., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware
Application February 2, 1939, Serial No. 82,744
Term of patent 3½ years



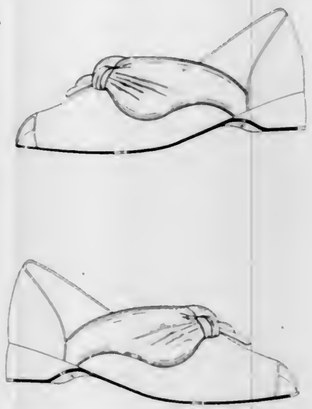
The ornamental design for a mirror back or similar article, substantially as shown and described.

115,864
DESIGN FOR A BRUSH BACK OR SIMILAR ARTICLE
Norma S. Whiting, South Hadley, Mass., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware
Application February 2, 1939, Serial No. 82,745
Term of patent 3½ years



The ornamental design for a brush back or similar article, substantially as shown and described.

115,865
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Schuyler A. Wood, Dolgeville, N. Y.
Application June 26, 1939, Serial No. 85,691
Term of patent 3½ years



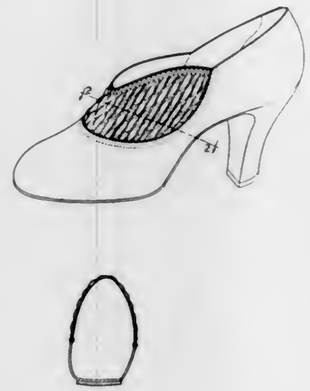
The ornamental design for a shoe or similar article, substantially as shown.

115,866
DESIGN FOR A SHOE
John R. Sutton, St. Louis, Mo., assignor to Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo., a corporation of Missouri
Application June 19, 1939, Serial No. 85,569
Term of patent 3½ years



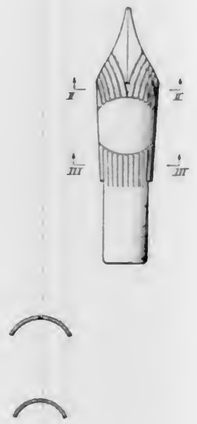
The ornamental design for a shoe, substantially as shown and described.

115,867
DESIGN FOR A SHOE
John R. Sutton, St. Louis, Mo., assignor to Johnson, Stephens and Shinkle Shoe Company, St. Louis, Mo., a corporation of Missouri
Application June 19, 1939, Serial No. 85,568
Term of patent 3½ years



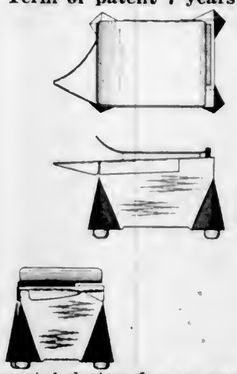
The ornamental design for a shoe, substantially as shown.

115,868
DESIGN FOR A PEN POINT
Sydney E. Longmaid, Rosemont, Pa., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a corporation of New Jersey
Application May 10, 1938, Serial No. 77,091
Term of patent 14 years



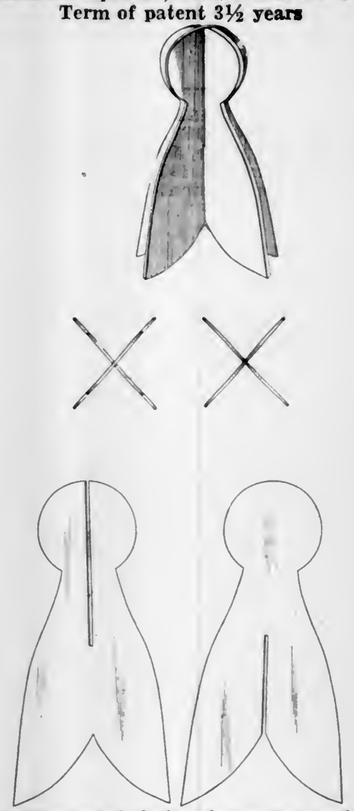
The ornamental design for a pen point, substantially as shown.

115,869
DESIGN FOR AN ENVELOPE MOISTENER OR THE LIKE
Alfred P. Krueger, Stratford, Conn.
Application May 8, 1939, Serial No. 84,859
Term of patent 7 years



The ornamental design for an envelope moistener or the like, substantially as shown.

115,870
DESIGN FOR A HAT RACK
Fred Jacobius, New York, N. Y.
Application April 22, 1939, Serial No. 84,507
Term of patent 3½ years



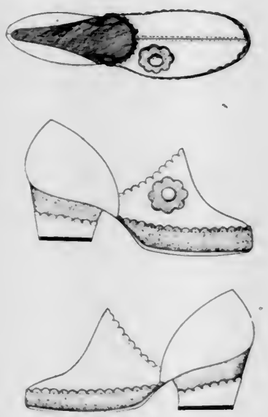
The ornamental design for a hat rack, substantially as shown.

115,871
DESIGN FOR A SLIPPER
Robert E. Frederick, New York, N. Y.
Application June 19, 1939, Serial No. 85,565
Term of patent 3½ years



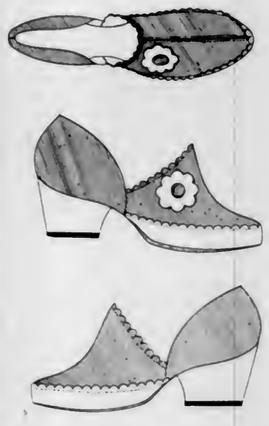
The ornamental design for a slipper, substantially as shown.

115,872
DESIGN FOR A SLIPPER
Louis J. Epstein, Jersey City, N. J.
Application June 22, 1939, Serial No. 85,627
Term of patent 3½ years



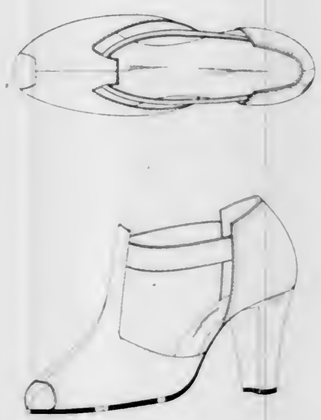
The ornamental design for a slipper, substantially as shown.

115,873
DESIGN FOR A SLIPPER
Louis J. Epstein, Jersey City, N. J.
Application June 22, 1939, Serial No. 85,626
Term of patent 3½ years



The ornamental design for a slipper, substantially as shown.

115,874
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Newton Elkin, Philadelphia, Pa.
Application June 26, 1939, Serial No. 85,690
Term of patent 3½ years



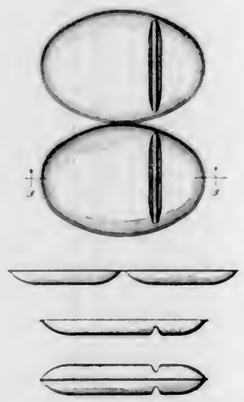
The ornamental design for a shoe or similar article, substantially as shown.

115,875
DESIGN FOR A SHOE OR SIMILAR ARTICLE
Newton Elkin, Philadelphia, Pa.
Application June 26, 1939, Serial No. 85,688
Term of patent 3½ years



The ornamental design for a shoe or similar article, substantially as shown.

115,876
DESIGN FOR A DOUBLE PAPER PLATE CASING
John G. Deynzer, Chicago, Ill.
Application November 29, 1937, Serial No. 73,248
Term of patent 7 years



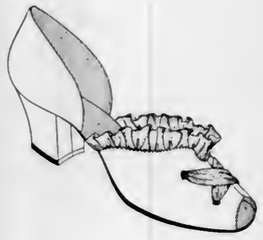
The ornamental design for a double paper plate casing, as shown and described.

115,877
DESIGN FOR A GOGGLE
Samuel E. Bouchard, Rochester, N. Y., assignor to Bausch & Lomb Optical Company, Rochester, N. Y., a corporation of New York
Application January 14, 1939, Serial No. 82,346
Term of patent 14 years



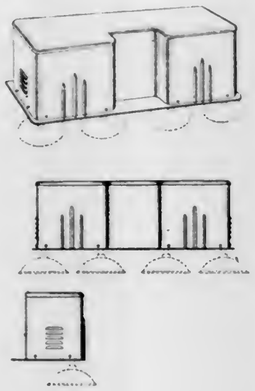
The ornamental design for a goggle, substantially as shown and described.

115,878
DESIGN FOR A SLIPPER
Israel Berman, New York, N. Y.
Application June 14, 1939, Serial No. 85,481
Term of patent 3½ years



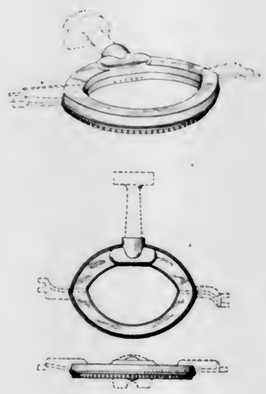
The ornamental design for a slipper, substantially as shown.

115,879
DESIGN FOR A WASHING MACHINE
Michael Phillip Gaultier, St. Paul, and Merrill Laffayette Alexander, Minneapolis, Minn.
Application May 11, 1939, Serial No. 84,924
Term of patent 14 years



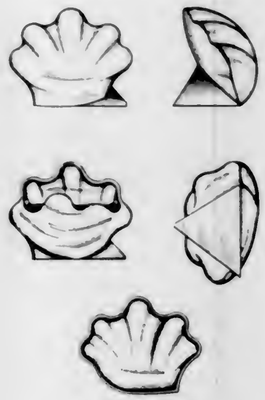
The ornamental design for a washing machine, as shown and described.

115,880
DESIGN FOR AN OVEN BURNER FOR A GAS RANGE
John F. Hennessy, Rockford, Ill., assignor to Geo. D. Roper Corporation, Rockford, Ill., a corporation of Illinois
Application April 27, 1939, Serial No. 84,589
Term of patent 14 years



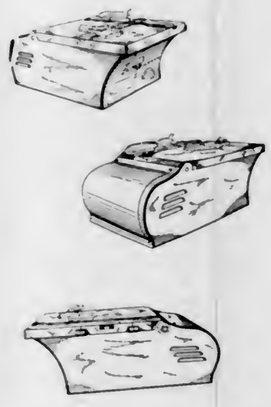
The ornamental design for an oven burner for a gas range, substantially as shown and described.

115,881
DESIGN FOR A COMBINED PERFUME HOLDER AND COVER
Florence N. Lewis, New York, N. Y.
Application May 18, 1939, Serial No. 85,063
Term of patent 7 years



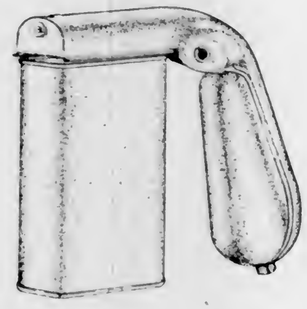
The ornamental design for a combined perfume holder and cover, as shown.

115,882
DESIGN FOR A TYPOGRAPHICAL TRIMMING MACHINE
George F. Morrison and Harry J. Tapper, Milwaukee, Wis., assignors to Milwaukee Saw Trimmer Corporation, Milwaukee, Wis., a corporation of Wisconsin
Application March 6, 1939, Serial No. 83,370
Term of patent 7 years



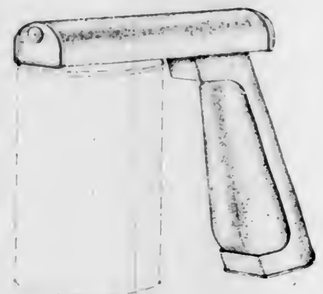
The ornamental design for a typographical trimming machine, substantially as shown and described.

115,883
DESIGN FOR A SPRAY GUN OR SIMILAR ARTICLE
Everett Worthington, Scarsdale, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 14, 1938, Serial No. 78,482
Term of patent 14 years



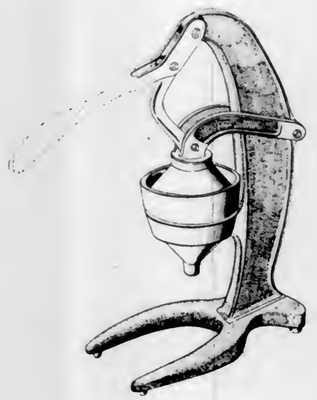
The ornamental design for a spray gun or similar article, as shown and described.

115,884
DESIGN FOR A SPRAY GUN OR SIMILAR ARTICLE
Everett Worthington, Scarsdale, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application July 14, 1938, Serial No. 78,484
Term of patent 14 years



The ornamental design for a spray gun or similar article, as shown and described.

115,885
DESIGN FOR A FRUIT JUICE EXTRACTOR OR THE LIKE
Raymond Zurawin, New York, N. Y.
Application May 20, 1939, Serial No. 85,100
Term of patent 14 years



The ornamental design for a fruit juice extractor or the like, as shown and described.

115,886
DESIGN FOR A FOUNDATION GARMENT
Jerome Abeles, Chicago, Ill., assignor to The Formfit Company, Chicago, Ill., a corporation of Illinois
Application May 31, 1939, Serial No. 85,271
Term of patent 3½ years



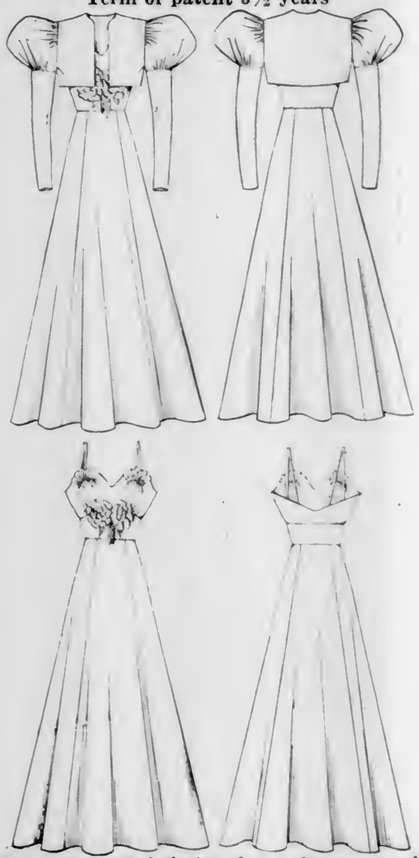
The ornamental design for a foundation garment, as shown.

115,887
DESIGN FOR A DRESS
Helen Bayor, New York, N. Y.
Application June 16, 1939, Serial No. 85,522
Term of patent 3½ years



The ornamental design for a dress substantially as shown.

115,888
DESIGN FOR A DRESS ENSEMBLE
Alice Engel, New York, N. Y.
Application June 10, 1939, Serial No. 85,441
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

115,889
DESIGN FOR A DRESS
Alice Engel, New York, N. Y.
Application June 10, 1939, Serial No. 85,442
Term of patent 3½ years



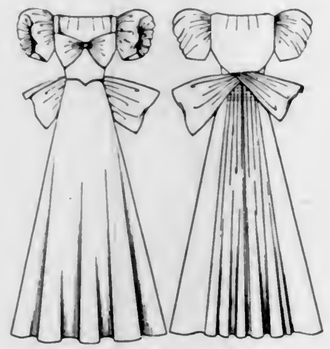
The ornamental design for a dress, substantially as shown.

115,890
DESIGN FOR A DRESS
Alice Engel, New York, N. Y.
Application June 10, 1939, Serial No. 85,443
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,891
DESIGN FOR A DRESS
Rose Feintuck, New York, N. Y.
Application June 16, 1939, Serial No. 85,523
Term of patent 3½ years



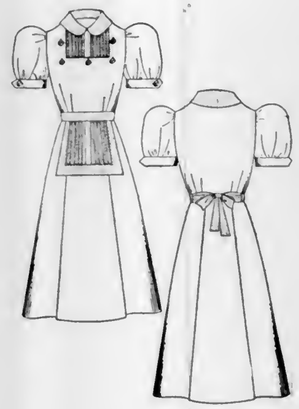
The ornamental design for a dress, substantially as shown.

115,892
DESIGN FOR A UNIFORM DRESS
Dorothy Jacobs, New York, N. Y.
Application June 15, 1939, Serial No. 85,497
Term of patent 3½ years



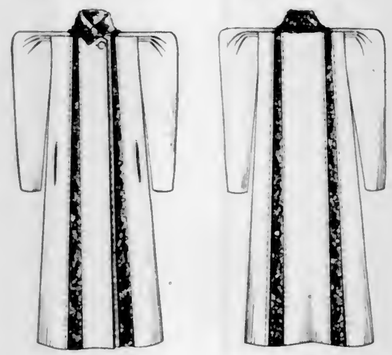
The ornamental design for a uniform dress, substantially as shown.

115,893
DESIGN FOR A UNIFORM DRESS
Dorothy Jacobs, New York, N. Y.
Application June 15, 1939, Serial No. 85,496
Term of patent 3½ years



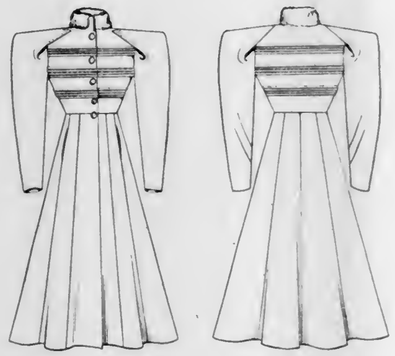
The ornamental design for a uniform dress, substantially as shown.

115,894
DESIGN FOR A COAT
David Kaplan, New York, N. Y.
Application June 10, 1939, Serial No. 85,436
Term of patent 3½ years



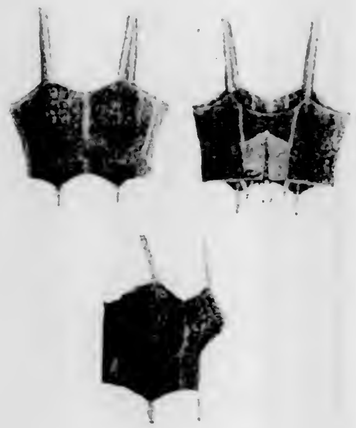
The ornamental design for a coat, substantially as shown.

115,895
DESIGN FOR A COAT
David Kaplan, New York, N. Y.
Application June 10, 1939, Serial No. 85,437
Term of patent 3½ years



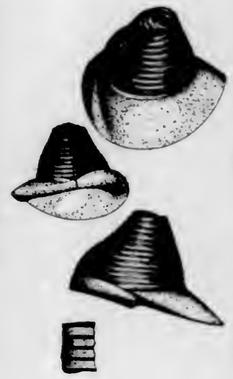
The ornamental design for a coat, substantially as shown.

115,896
DESIGN FOR A BRASSIÈRE OR SIMILAR ARTICLE
George A. Kaufmann, Essex Fells, N. J.
Application May 20, 1939, Serial No. 85,101
Term of patent 7 years



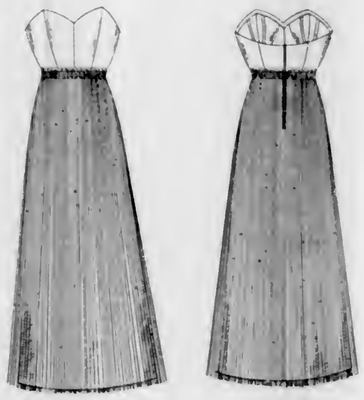
The ornamental design for a brassière or similar article, as shown and described.

115,897
DESIGN FOR A HAT
Alys C. Moran, New York, N. Y., assignor to Hat Corporation of America, Norwalk, Conn., a corporation of Delaware
Application January 19, 1939, Serial No. 82,432
Term of patent 3½ years



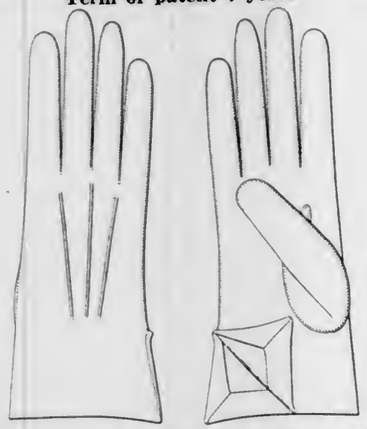
The ornamental design for a hat, substantially as shown and described.

115,898
DESIGN FOR A DRESS
Manilla Z. Russell, New York, N. Y.
Application June 3, 1939, Serial No. 85,316
Term of patent 3½ years



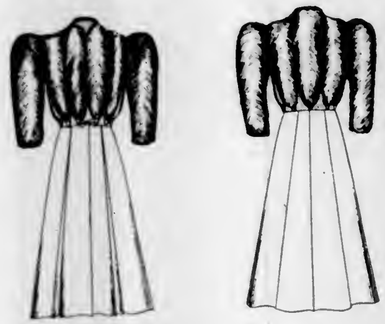
The ornamental design for a dress, substantially as shown and described.

115,899
DESIGN FOR A GLOVE
Samuel Starr, Gloversville, N. Y.
Application January 23, 1939, Serial No. 82,539
Term of patent 7 years



The ornamental design for a glove, as shown and described.

115,900
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application June 3, 1939, Serial No. 85,317
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

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1939

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CONTENTS

	Page
DECISIONS OF THE COMMISSIONER OF PATENTS, August 1, 8, 15, 22, 29	3, 231, 513, 759, 1021
TRADE-MARKS PUBLISHED AND REGISTERED, August 1, 8, 15, 22, 29	11, 245, 525, 769, 1035
LABELS AND PRINTS REGISTERED, August 1, 8, 15, 22, 29	42, 271, 553, 805, 1071
REISSUES, August 1, 8, 15, 22, 29	43, 273, 555, 807, 1073
PLANT PATENTS, August 1, 8, 15, 22, 29	—, 274, —, —, —
PATENTS, August 1, 8, 15, 22, 29	45, 275, 556, 809, 1076
DESIGNS, August 1, 8, 15, 22, 29	206, 482, 738, 990, 1245

ANNOUNCEMENTS

	Page
ADVERSE DECISIONS IN INTERFERENCE	229, 1019
APPLICATIONS—Condition of pending	2, 230, 512, 758, 1020
BULLETIN OF DECISIONS—Trade-Marks, Labels and Prints	1031
CLASSIFICATION OF INVENTION—Changes in	
Order No. 3,481	243
Order No. 3,482	523
DISCLAIMERS—Atchison, Leonard W	10
Bertran, Benjamin E., et al	242
Caldwell, Frank W	243
Garner, Fred G., et al	511
Hammond, Laurens	243
Hazard, Charles S	242
Heiniger, William B	242
Herold, Walter F	511
Horton, Albert J	757
Lincoln, Willis B., Jr	10
Miller, Ernest F	757
Padgett, Joseph E	242
Potthoff, Kurt T	242
Potthoff, Louis	242
Rode, Frederich J., et al	1030
Schaaf, James E	243
Smede, Lloyd, et al	757
Stewart, William M	757
Withrow, Joseph E., et al	242
NOTICE—Changes in Patent Laws	1019
PATENT SUITS	9, 241, 522, 766, 1029
LAWS—Changes in	1019
PATENTS—List of adjudicated	1, 229, 511, 757
TRADE-MARK REGISTRATIONS Canceled	242, 1030
Notice of Cancellation	1, 229, 511, 767, 1019

TABLE OF CASES REPORTED

	Page
Bowyer, Ex parte	759
*Brown, Jr., *v.* Barton	5
*Collins & Aikman Corporation *v.* Sanford Mills and L. C. Chase & Co. Inc	231
*Coty, Inc., *v.* Joseph Dixon Crucible Company	760
*Diederichs, In re	521
*Earle and Steinmayer, In re	1025
*Gardner *v.* Ziliger	239
*Georgiev *v.* Fruth	519
*Gilman *v.* Klein and Sheehan	517
*Hansgirg *v.* Kemmer	514
*Hanson, In re	237
*Hill and Hey *v.* Casler and Vorech	1021
*Koebel, Charles J., and Koebel Diamond Tool Co. *v.* Coe, Com. of Patents	513
*Langfield, doing business as The Solvite Co. *v.* Brady, doing business as The Solvoline Sales Co	236
*Osterstrom, In re	1022
*Pirani and West, In re	1028
*Reed *v.* Edwards	234
*Roe, In re	3
*Walter, In re	516
*Widmer, In re	762

[Decisions of the United States Court of Appeals of the District of Columbia are indicated by the letter (*); and of the United States Court of Customs and Patent Appeals by a star (*).]

429401

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Air Devices Corporation, Meriden, Conn. Electric switches. Serial No. 419,102; Aug. 1. Class 21.
Allen Innovations. (See Skluth, Gladys.)
American Decorative Flower Company, Baltimore, Md. Florists' supplies. Serial No. 419,707; Aug. 1. Class 50.
American Maize-Products Company, New York, N. Y. Corn syrup. Serial No. 416,174; Aug. 1. Class 46.
American Plush & Velvet Pressboard Co. Inc., New York, N. Y. Pressboards. Serial No. 420,207; Aug. 1. Class 24.
April, Abe, Fur Dyeing Corporation, New York, N. Y. Fur skins. Serial No. 419,708; Aug. 1. Class 1.
Atlantic Coast Fisheries Corporation of New York, New York, N. Y. Fresh frozen fish fillets. Serial No. 410,767; Aug. 1. Class 46.
Auto-Soler Company, The, Atlanta, Ga. Wire. Serial No. 407,414; Aug. 1. Class 14.
Aywon Damproofing Company. (See Sheftel, Harry.)
Baird & McGuire, Inc., Holbrook, Mass. Insecticides. Serial No. 417,253; Aug. 1. Class 6.
Band Box Corporation, The, St. Louis, Mo. Machinery for dry cleaning of fabrics. Serial No. 420,619; Aug. 1. Class 24.
Barber, Walter, Long Beach, Calif. Section of a publication. Serial No. 418,962; Aug. 1. Class 38.
Barclay Manufacturing Company, Inc., New York, N. Y. Pressed wood fiber board. Serial No. 408,826; Aug. 1. Class 12.
Baring, George, New York, N. Y. Perfume. Serial No. 420,040; Aug. 1. Class 6.
Bathé, Charles G., Tulsa, Okla. Coffee, salad dressing, pancake flour, etc. Serial No. 416,499; Aug. 1. Class 46.
Bel-Vita Company. (See Farnsworth, William G.)
Benzoinol Manufacturing Company, The, New York, N. Y. Medicinal lotion. Serial No. 419,243; Aug. 1. Class 6.
Bradford Oil Refining Company, Bradford, Pa. Lubricating oils. Serial No. 416,246; Aug. 1. Class 15.
Brillo Manufacturing Company, Inc., New York, N. Y. Soaps, cleaning, scouring, and polishing wads, pads, rolls, and cloths. Serial Nos. 418,809–10; Aug. 1. Class 4.
Buston, George, doing business as The Sun Rise Bottling Company, Tazewell, Va. Beverages, and sirups and extracts for making the same. Serial No. 420,089; Aug. 1. Class 45.
Callaway Mills, La Grange, Ga. Cotton piece goods. Serial No. 406,497; Aug. 1. Class 42.
Campbell, James B., Elkhorn, Wis. Veterinary medicines. Serial No. 416,839; Aug. 1. Class 6.
Canadian American Spirits Corp., Jersey City, N. J. Wines. Serial Nos. 420,214–15; Aug. 1. Class 47.
Carter Brothers, Incorporated, Chattanooga, Tenn. Bedspreads. Serial No. 420,216; Aug. 1. Class 42.
Cedargreen Frozen Pack Corporation, Wenatchee, Wash. Frozen vegetables and fruits. Serial No. 419,851; Aug. 1. Class 46.
Cellulose Sanitary Products. (See Messier, Frederick J.)
Cherry-Burrell Corporation, Chicago, Ill. Chemical preparations. Serial No. 412,945; Aug. 1. Class 6.
Citresa, Oscar J., Inc., Union City, N. J. Piece goods. Serial No. 420,166; Aug. 1. Class 42.
Clark & Hammer, Inc., Belleville, N. J. Venetian blinds. Serial No. 420,849; Aug. 1. Class 32.
Complete Service Publishing Company, Chicago, Ill. Publication. Serial No. 418,228; Aug. 1. Class 38.
Conard-Pyle Company, The, West Grove, Pa. Magazine. Serial No. 419,952; Aug. 1. Class 38.
Coney, Edward R., doing business as The Liquid-Ginger Co., San Francisco, Calif. Beverages and beverage extract. Serial No. 417,736; Aug. 1. Class 45.
Consolidated Machinery & Supply Co., Ltd., Los Angeles, Calif. Power saws and wood-working machinery. Serial No. 413,298; Aug. 1. Class 23.
Continental Oil Company, Ponca City, Okla. Lubricating oil. Serial No. 402,895; Aug. 1. Class 15.
Corn Products Refining Company, New York, N. Y. Salted popcorn. Serial No. 419,370; Aug. 1. Class 46.
Cox Gelatine Company, The, New York, N. Y. Gelatine. Serial No. 419,795; Aug. 1. Class 46.
Craddock-Terry Shoe Corporation, Lynchburg, Va. Shoes. Serial No. 417,642; Aug. 1. Class 39.
Cutter Machine Co., The, St. Louis, Mo. Cloth laying, folding, and cutting machines. Serial No. 419,211; Aug. 1. Class 23.
Derris, Inc., New York, N. Y. Insecticides. Serial Nos. 419,550–1; Aug. 1. Class 6.
Detroit Paper Products Corporation, Hamtramck, Mich. Paper cartons. Serial No. 417,526; Aug. 1. Class 2.
Duro Test Corporation, North Bergen, N. J. Coloring material for incandescent bulbs. Serial No. 412,546; Aug. 1. Class 6.
Durocharm Company, New York, N. Y. Vanity cases and compacts. Serial No. 414,060; Aug. 1. Class 28.
Eichmann & Hecht, New York, N. Y. Textile piece goods. Serial No. 419,717; Aug. 1. Class 42.
Ellison, John B., & Sons, Inc., Philadelphia, Pa. Woolen piece goods. Serial No. 419,296; Aug. 1. Class 42.
Eskin, Benjamin, doing business as Eskin Laboratories, Newark, N. J. Massage for gums and mouth. Serial No. 418,571; Aug. 1. Class 6.
Farnsworth, William G., doing business as Bel-Vita Company, Lansing, Mich. Diet supplement and body building tonic. Serial No. 420,364; Aug. 1. Class 6.
Feinberg, George K., doing business as India Tire Company, Brookline, Mass. Tubes and tires. Serial No. 418,772; Aug. 1. Class 35.
Ferguson Publishing Company, Inc., New York, N. Y. Periodical. Serial No. 419,662; Aug. 1. Class 38.
Fink-Roselleve Co., Inc., New York, N. Y. Photographic preparations and chemicals. Serial No. 419,862; Aug. 1. Class 6.
Firestone Tire & Rubber Company, The, Akron, Ohio. Pneumatic suspension and shock absorbing units. Serial No. 410,134; Aug. 1. Class 19.
Fisch, Meyer M., doing business as Selwell Manufacturing Company, Los Angeles, Calif. Bassinet, nursery and trainer seat, etc. Serial No. 419,603; Aug. 1. Class 32.
Fleetwood Coffee Company, Chattanooga, Tenn. Coffee. Serial No. 419,863; Aug. 1. Class 46.
Fox Manufacturing Co., Inc., New York, N. Y. Shirts, underwear, sportswear, etc. Serial No. 419,222; Aug. 1. Class 39.
General Motors Corporation, Detroit, Mich. Water heaters. Serial No. 413,550; Aug. 1. Class 34.
General Motors Corporation, Detroit, Mich. Fluid flow filters. Serial No. 416,605; Aug. 1. Class 31.
General Register Corporation, New York, N. Y. Ticket issuing registers. Serial No. 417,756; Aug. 1. Class 26.
Gerber & Co., Inc., New York, N. Y. Cheese. Serial No. 393,274; Aug. 1. Class 46.
Greiner, C. A., New Orleans, La. Canned fish and shellfish. Serial No. 418,830; Aug. 1. Class 46.
Gruber, Stanley, doing business as Silver King Burnisher Co., New York, N. Y. Burnishing machines. Serial Nos. 420,056–7; Aug. 1. Class 23.
Harris, J. M., & Co., Roanoke, Va. Insecticides. Serial No. 419,968; Aug. 1. Class 6.
Hecox, Clarence W., Arlington, Va. Weed pullers. Serial No. 420,178; Aug. 1. Class 23.
Hell, Edward H., Cleveland, Ohio. Liquid dentifrice, a preparation for causing retention of false teeth in the mouth. Serial No. 418,483; Aug. 1. Class 6.
Henkel, Erwin C., doing business as Wormout Company, Minneapolis, Minn. Preparation for elimination of worms in poultry and livestock. Serial No. 420,005; Aug. 1. Class 6.
Hercules Powder Company, Wilmington, Del. Dynamites. Serial No. 419,116; Aug. 1. Class 9.
Hess-Taylor-Kreiss Inc., New York, N. Y. Hosiery. Serial No. 420,583; Aug. 1. Class 39.
Hoover, V. B., doing business as Kenosha Prescription Laboratory, Kenosha, Wis. Medicinal preparation. Serial No. 419,192; Aug. 1. Class 6.
Hudson, J. L., Company, The, Detroit, Mich. Men's suits. Serial No. 415,250; Aug. 1. Class 39.
Huemite, Inc., Dayton, Ohio. Insecticides. Serial No. 419,575; Aug. 1. Class 6.
Illinois Producers' Creameries, Chicago, Ill. Cheese. Serial No. 419,805; Aug. 1. Class 46.
Imra Cosmetics, Inc., Elizabeth, N. J. Sun tan cream and lotion. Serial No. 419,516; Aug. 1. Class 6.
India Tire Company. (See Feinberg, George K.)
Ingersoll-Rand Company, New York, N. Y. Core drills. Serial No. 419,836; Aug. 1. Class 23.
International Business Machines Corporation, New York, N. Y. Typewriting machines. Serial No. 419,806; Aug. 1. Class 23.
International Parts Corp., Chicago, Ill. Mufflers and parts thereof, axle and drive shafts, etc. Serial No. 417,915; Aug. 1. Class 23.
Johnson, Julius E., doing business as J. E. Johnson & Co., Chicago, Ill. Cleaning compound. Serial No. 418,154; Aug. 1. Class 4.
Jordan Marsh Company, Boston, Mass. Refrigerators. Serial No. 420,767; Aug. 1. Class 31.
Kelley Brothers Company, Minneapolis, Minn. Whiskey. Serial No. 420,008; Aug. 1. Class 49.
Kenosha Prescription Laboratory. (See Hoover, V. B.)
Kings International, Incorporated, Chicago, Ill. Whiskey. Serial No. 408,386; Aug. 1. Class 49.
Kimball, C. M., Co., Everett, Mass. Germicide. Serial No. 419,786; Aug. 1. Class 6.
Kosylette Garment Company Inc., The, Buffalo, N. Y. Women's undergarments. Serial No. 417,807; Aug. 1. Class 39.

Kritzer, John B., doing business as Kritzer Contracting Co., Oak Park, Ill. Monolithic masonry brick. Serial No. 411,578; Aug. 1. Class 12.
Kroll Brothers Company, Chicago, Ill. Baby carriages and go carts. Serial No. 420,106; Aug. 1. Class 19.
Lentheric, Incorporated, New York, N. Y. Lipsticks and rouges. Serial No. 419,922; Aug. 1. Class 6.
LeRoy Manufacturing Co. (See Matteson, LeRoy A.)
Liquid-Ginger Co., The. (See Coney, Edward R.)
Logan Laboratories, Inc., Chicago, Ill. Antiseptic powder. Serial No. 419,583; Aug. 1. Class 6.
Lorraine Manufacturing Company, Pawtucket, R. I., and New York, N. Y. Skirts, waists, suits, etc. Serial No. 420,064; Aug. 1. Class 39.
Magay Corporation, New York, N. Y. Preparation for treating arthritis, rheumatism, etc. Serial No. 419,869; Aug. 1. Class 6.
Maine Steel, Inc., South Portland, Maine. Vehicle-carried, power-operated digging bucket, its teeth, and its controls. Serial No. 418,884; Aug. 1. Class 23.
Master Refrigerated Locker Systems, Inc., Sioux City, Iowa. Refrigerated units. Serial No. 418,933; Aug. 1. Class 31.
Matteson, LeRoy A., doing business as LeRoy Manufacturing Co., Detroit Lakes, Minn. Meat patties. Serial No. 410,700; Aug. 1. Class 46.
Mead Johnson & Company, Evansville, Ind. Specially prepared food for infants and invalids. Serial Nos. 419,266–7; Aug. 1. Class 46.
Menasha Products Company, Menasha, Wis. Transparent waxed paper. Serial No. 415,171; Aug. 1. Class 37.
Messier, Frederick J., doing business as Cellulose Sanitary Products, Hardwick, Mass. Disposable chemically treated tissue dusters. Serial No. 419,926; Aug. 1. Class 29.
Michaels, Ralph, Chicago, Ill. Shuttlecocks. Serial No. 420,284; Aug. 1. Class 22.
Michaels, Stern & Co. Inc., Rochester, N. Y. Men's and boys' suits. Serial No. 419,676; Aug. 1. Class 39.
Michaels, Stern & Co. Inc., Rochester, N. Y. Men's and boys' topcoats. Serial No. 419,677; Aug. 1. Class 39.
Mohan, William F., doing business as Mohan, Wm. F., Co., New York, N. Y. Shirts, pajamas, underwear, etc. Serial No. 412,774; Aug. 1. Class 39.
Monington & Weston, Ltd., London, England. Musical instruments. Serial No. 416,910; Aug. 1. Class 36.
Morris, W. F., Sand Gap, Ky. Medicinal preparation. Serial No. 420,069; Aug. 1. Class 6.
National Production Company, Detroit, Mich. Child's jumper chair. Serial No. 420,683; Aug. 1. Class 32.
Orr, W. H., doing business as Surety Waterproofing Company, San Francisco, Calif. Material for waterproofing concrete. Serial No. 415,138; Aug. 1. Class 12.
Ownby, Warren D., Tulsa, Okla. Game. Serial No. 420,777; Aug. 1. Class 22.
Parke, Davis & Company, Detroit, Mich. Publication. Serial No. 419,976; Aug. 1. Class 38.
Patterson-Sargent Company, The, Cleveland, Ohio. Paints, enamels, stains, etc. Serial No. 417,139; Aug. 1. Class 16.
Perfection Products Co. (See Seibert, Alvah A.)
Philadelphia Wholesale Drug Company, Philadelphia, Pa. Acetanilid comp. tabs. #1, alkaline aromatic comp. tabs., etc. Serial No. 416,264; Aug. 1. Class 6.
Phoenix Hosiery Company, Milwaukee, Wis. Hosiery. Serial No. 419,818; Aug. 1. Class 39.
Prozesky, Rudolf. (See Roterberg, Werner.)
Pure Rock Mineral Springs Corporation, Ellenville, N. Y. Spring water. Serial No. 418,169; Aug. 1. Class 45.
Quinn, J. W., Drug Company, Inc., Greenwood, Miss. Diuretic compound, and tablets. Serial No. 419,766; Aug. 1. Class 6.
Reiss, Dr. Rudolf, Rheumasan- und Lenicet-Fabrik, Berlin, Germany. Medical preparation. Serial No. 411,088; Aug. 1. Class 6.
Remington Rand Inc., Buffalo, N. Y. Card and correspondence file guides. Serial No. 417,978; Aug. 1. Class 37.
Romano, Giulio, doing business as Sleepex Reg'd., Montreal, Canada. Medicinal compound. Serial No. 420,237; Aug. 1. Class 6.
Roterberg, Werner, doing business as Rudolf Prozesky, Dusseldorf, Germany. Lathes, chasing lathes, grinding machines, etc. Serial No. 414,162; Aug. 1. Class 23.
Ruehfel, George, Company, Inc., Brooklyn, N. Y. Hydrometers, thermo-hydrometers, and paper-scale thermometers. Serial No. 420,074; Aug. 1. Class 26.
Savogram Company, The, Boston, Mass. Paint and varnish remover. Serial No. 419,979; Aug. 1. Class 16.
Scofield, Philip F., doing business as Scofield Manufacturing Co., Palo Alto, Calif. Velocity reducing liquid nozzles. Serial No. 420,188; Aug. 1. Class 13.
Sea Board Supply Co., Inc., Philadelphia, Pa. Product used for mineralizing live stock ration feed. Serial No. 419,159; Aug. 1. Class 6.
Seibert, Alvah A., doing business as Perfection Products Co., Cairo, Ill. Filter powder. Serial No. 411,842; Aug. 1. Class 6.
Selwell Manufacturing Company. (See Fisch, Meyer M.)
Seminole Flavor Company, Chattanooga, Tenn. Beverages, and syrups for compounding the same. Serial No. 417,673; Aug. 1. Class 45.
Sheftel, Harry, doing business as Aywon Damproofing Company, New York, N. Y. Chemical preparation. Serial No. 419,276; Aug. 1. Class 12.
Shellabarger Mill & Elevator Company, The, doing business as The Shellabarger Mills, Salina, Kans. Wheat flour. Serial No. 415,418; Aug. 1. Class 46.
Silver King Burnisher Co. (See Gruber, Stanley.)
Skluth, Gladys, doing business as Allen Innovations, New York, N. Y. Slide fasteners. Serial No. 416,757; Aug. 1. Class 13.
Sleepex Reg'd. (See Romano, Giulio.)
Star Paper Fastener Co., Inc., The, Norwalk, Conn. Staples. Serial No. 418,211; Aug. 1. Class 13.
Stein, Hall & Company, Inc., New York, N. Y. Locust bean gum. Serial No. 420,189; Aug. 1. Class 5.
Stevens, L. E., Co., Cincinnati, Ohio. Air conditioning and/or heating conduits and piping. Serial No. 419,822; Aug. 1. Class 34.
Sugar Beet Products Company, Saginaw, Mich. Cleaning and water-softening compound. Serial Nos. 413,161–2; Aug. 1. Class 4.
Sun Glow Industries, Inc., Mansfield, Ohio. Tables, beds, desks, etc. Serial No. 419,891; Aug. 1. Class 32.
Sun Rise Bottling Company, The. (See Buston, George.)
Surety Waterproofing Company. (See Orr, W. H.)
Swan-Finch Oil Corporation, New York, N. Y. Oils and greases. Serial No. 417,559; Aug. 1. Class 15.
Sweeny, Raymond V., Freeport, N. Y. Combination feeding container and device for regulating the time of feeding. Serial No. 420,031; Aug. 1. Class 50.
Thibaut, Richard E., Inc., New York, N. Y. Wallpapers. Serial No. 419,893; Aug. 1. Class 37.
Titanium Alloy Manufacturing Company, The, Niagara Falls, N. Y. Opaqueing agents and pigments. Serial No. 416,076; Aug. 1. Class 6.
Tret-O-Lite Company, The, Webster Groves, Mo. Organic compounds and solutions. Serial No. 414,904; Aug. 1. Class 6.
Union Asbestos & Rubber Company, Chicago, Ill. Fabricated steel products. Serial No. 419,318; Aug. 1. Class 19.
United Cigar-Whelan Stores Corporation, New York, N. Y. Cigarette tobacco. Serial No. 419,778; Aug. 1. Class 17.
Universal Camera Corporation, New York, N. Y. Sensitized photographic film. Serial No. 413,968; Aug. 1. Class 26.
Vadsco Sales Corporation, Long Island City, N. Y. Face cream, analgesic balm, headache and neuralgia preparations, etc. Serial No. 417,150; Aug. 1. Class 6.
Vegetable Oil Products Company, Inc., Wilmington, Calif. Oils and greases. Serial No. 419,459; Aug. 1. Class 16.
Veritas Products Company, Inc., New York, N. Y. Vaginal cream. Serial No. 419,779; Aug. 1. Class 6.
Visible Index Corp., New York, N. Y. Visible indexing cards. Serial No. 417,191; Aug. 1. Class 37.
Wallau, Alex Lee, Inc., New York, N. Y. Hosiery and anklets. Serial No. 419,694; Aug. 1. Class 39.
Waterbury Lock & Specialty Company, The, Milford, Conn. Padlocks. Serial No. 420,654; Aug. 1. Class 25.
Western Adhesives Company, Chicago, Ill. Material for protecting human skin from injury from irritants. Serial No. 418,320; Aug. 1. Class 6.
Wiedmann, Geo., Brewing Co., Inc., Newport, Ky. Beer. Serial No. 393,405; Aug. 1. Class 48.
Winthrop Chemical Company, Inc., New York, N. Y. Preparation of antihemorrhagic vitamin "K". Serial No. 419,741; Aug. 1. Class 6.
Wormout Company. (See Henkel, Erwin C.)
Zip-A-Bag Corp., New York, N. Y. Vacuum cleaner bags. Serial No. 418,124; Aug. 1. Class 2.

LIST OF REGISTRANTS OF TRADE-MARKS

Adams, O. R., Mfg. Co., Inc., Rochester, assignor, by mesne assignments, to Seneca Falls Machine Co., Seneca Falls, N. Y. Lathes. 126,970; renewed Oct. 14, 1939.
Alreozone Corporation, The, Chicago, Ill. Building heating furnaces and parts thereof. 369,697; Aug. 1; Serial No. 416,790; published May 23, 1939. Class 34.
Aldon Company, The, Chicago, Ill. Car-replacers and wrecking-frogs, rail-saws, etc. 128,214; renewed Dec. 23, 1939.
Alfa Machine Company, Milwaukee, Wis. Hand operated cutters or cutting machines. 369,574; Aug. 1; Serial No. 403,848; published May 23, 1939. Class 23.
Alice Frock Company. (See Gudnason, Krist.)
American Air Filter Company, Inc., Louisville, Ky. Centrifugal dust separators. 369,644; Aug. 1; Serial No. 415,620; published May 23, 1939. Class 34.
American Aniline Products, Inc., New York, N. Y. Waterproofing and water-repelling agents. 369,565; Aug. 1; Serial No. 399,025; published Jan. 11, 1938. Class 6.

American Character Doll Co. Inc., New York, N. Y. Dolls. 369,812; Aug. 1; Serial No. 417,901; published May 23, 1939. Class 22.
American Drugs Produce Co. (See Plant & Barnes.)
American Institute of Mining and Metallurgical Engineers, Inc., New York, N. Y. Publication. 369,571; Aug. 1. Serial No. 403,352; published May 16, 1939. Class 38.
American Iron & Machine Works Company, Oklahoma City, Okla. Oil field equipment. 369,673; Aug. 1; Serial No. 416,359; published May 23, 1939. Class 23.
American Lace Paper Company, Milwaukee, Wis. Paper box laces, doilies, napkins, etc. 369,735; Aug. 1; Serial No. 417,197; published May 23, 1939. Class 37.
American Piano Plate Company, Racine, Wis. Piano plates. 369,670; Aug. 1; Serial No. 416,305; published May 23, 1939. Class 36.
American Renaissance Associates, Inc., White Plains, N. Y. Canned coffee, corn, and peaches. 369,569; Aug. 1; Serial No. 400,940; published May 23, 1939. Class 46.
American Sales Development Co., Inc., New York, N. Y. Hosiery. 369,676; Aug. 1; Serial No. 416,533; published May 23, 1939. Class 39.
American Thread Company, The, New York, N. Y. Thread. 369,766–7; Aug. 1; Serial Nos. 417,430–1; published May 23, 1939. Class 43.
American Zinc Company of Tennessee, Mascot, Tenn. Sheaves. 369,613; Aug. 1; Serial No. 412,749; published May 23, 1939. Class 23.
Amorita Cigar Co., Baltimore, Md. Cigars. 369,792; Aug. 1; Serial No. 417,636; published May 23, 1939. Class 17.
Amsterdam, Irving, doing business as Formost Laboratories Co., New York, N. Y. Liquid lotion. 369,793; Aug. 1; Serial No. 417,637; published May 23, 1939. Class 6.
Arden, Elizabeth, Inc., New York, N. Y. Lipstick, rouge, nail polish. 369,736; Aug. 1; Serial No. 417,199; published May 23, 1939. Class 6.
Arnold, Hoffman & Co. Incorporated, Providence, R. I. Chemicals used as water repellents. 369,782; Aug. 1; Serial No. 417,521; published May 16, 1939. Class 6.
Arizona Brewing Company, Phoenix, Ariz. Beer. 369,732; Aug. 1; Serial No. 417,157; published May 23, 1939. Class 48.
Auer Register Company, The, Cleveland, Ohio. Registers and grilles. 369,677–9; Aug. 1; Serial Nos. 416,534–6; published May 23, 1939. Class 34.
Auto License Safe Company, The, Elyria, Ohio. Holders to be mounted on instrument boards. 369,605; Aug. 1; Serial No. 411,674; published May 23, 1939. Class 19.
Ayerst, McKenna & Harrison (United States), Limited. Medicinal vitamin preparation. 369,671; Aug. 1; Serial No. 416,305; published May 23, 1939. Class 6.
Baker Furniture, Inc., Grand Rapids, Mich. Furniture. 369,826; Aug. 1; Serial No. 418,286; published May 23, 1939. Class 32.
Baltimore Trouser Company, Inc., Baltimore, Md. Sport shirts, slacks, and trousers. 369,661; Aug. 1; Serial No. 416,090; published May 9, 1939. Class 39.
Bankston-Edwards Canning Company, Zebulon, Ga. Fresh peaches, pimientos, and turnip greens. 369,658; Aug. 1; Serial No. 415,973; published May 23, 1939. Class 46.
Bay City Produce Company, Los Angeles, Calif. Fresh citrus and deciduous fruit, and vegetables. 369,835; Aug. 1. Class 46.
Beal, Arthur W., Glen Rock, N. J. Soothing ointment. 369,708; Aug. 1; Serial No. 416,930; published May 23, 1939. Class 6.
Beck, A. S., Shoe Corporation, New York, N. Y. Shoes and slippers. 369,837; Aug. 1. Class 39.
Behr-Manning Corporation, Troy, N. Y. Fabric treated with non-slipping material. 369,608; Aug. 1; Serial No. 412,490; published May 23, 1939. Class 50.
Beir, Arthur, & Co., Inc., New York, N. Y. Silk piece goods. 128,003; renewed Dec. 23, 1939.
Belle Knitting Corp., New York, N. Y. Underwear, pajamas, and nightgowns. 369,721; Aug. 1; Serial No. 417,076; published May 16, 1939. Class 39.
Belle Knitting Corp., New York, N. Y. Ladies' and children's underwear. 369,722; Aug. 1; Serial No. 417,077; published May 9, 1939. Class 39.
Belleau, Louis S., doing business as Belleau Drug Store, Green Bay, Wis. Liniment. 369,645; Aug. 1; Serial No. 415,628; published May 23, 1939. Class 6.
Bemis Bro. Bag Company, St. Louis, Mo. Piece goods. 369,788; Aug. 1; Serial No. 417,605; published May 23, 1939. Class 42.
Benz, George, Sons, Inc., St. Paul, Minn. Whiskey. 369,809; Aug. 1; Serial No. 417,861; published May 23, 1939. Class 49.
Betz Corporation, Hammond, Ind. Coil that refrigerates and purifies the air in refrigerators. 369,856; Aug. 1. Class 31.
Birdsall & Wilcox, New Haven, Conn. Mayonnaise, Russian dressing, sandwich spread, etc. 369,713; Aug. 1; Serial No. 416,993; published May 23, 1939. Class 46.
Black Knight Company, Chattanooga, Tenn. Lighting equipment. 369,582; Aug. 1; Serial No. 406,903; published May 23, 1939. Class 21.
Bonar-Phelps Co., Inc., New York, N. Y. Hats for men. 369,834; Aug. 1. Class 39.
Bradley, Milton, Company, Springfield, Mass. Board game. 369,824; Aug. 1; Serial No. 418,237; published May 23, 1939. Class 22.
Brandt, Robert J., Los Angeles, Calif. Desks or tables. 369,745; Aug. 1; Serial No. 417,255; published May 23, 1939. Class 32.
Buckingham & Hecht. (See United Workingmen's Boot & Shoe Mfg. Co., assignor.)
Bulova Watch Company, Inc., New York, N. Y. Watches. 369,777–8; Aug. 1; Serial Nos. 417,483–4; published May 23, 1939. Class 27.
Burson Knitting Company. (See Rolite.)
Canine Vita-Candy Company, Inc., Waterbury, Conn. Vitamine containing food for pets. 369,561; Aug. 1; Serial No. 396,117; published May 23, 1939. Class 46.
Capitol Foods, Inc., Madison, Wis. Dessert preparations. 369,672; Aug. 1; Serial No. 416,311; published May 23, 1939. Class 46.
Caxton Printers, Ltd., The, Caldwell, Idaho. Books. 369,691; Aug. 1; Serial No. 416,720; published May 16, 1939. Class 38.
Celanese Corporation of America, New York, N. Y. Yarns. 369,768; Aug. 1; Serial No. 417,440; published May 23, 1939. Class 43.
Celanese Corporation of America, New York, N. Y. Hosiery. 369,769; Aug. 1; Serial No. 417,441; published May 23, 1939. Class 39.
Celotex Corporation, The, Chicago, Ill. Saturated fiber board. 369,564; Aug. 1; Serial No. 398,810; published May 16, 1939. Class 12.
Century Drug Company. (See Fels, William.)
Champion Fastener Corp., New York, N. Y. Paper staples, paper fasteners, and hand stapling machines. 369,566; Aug. 1; Serial No. 399,556; published May 31, 1938. Class 37.
Chase & Pickenpaugh, Long Beach, Calif. Hair oil. 369,581; Aug. 1; Serial No. 405,754; published May 23, 1939. Class 6.
Chefford Master Manufacturing Co. Inc., Fairfield, Ill. Automobile clutch plates. 369,684; Aug. 1; Serial No. 416,599; published May 23, 1939. Class 23.
Church & Dwight Co. Inc., New York, N. Y. Bicarbonate of soda, saleratus, and baking-soda. 369,752; Aug. 1; Serial No. 417,324; published May 23, 1939. Class 6.
Church & Dwight Co. Inc., New York, N. Y. Baking soda. 369,753–4; Aug. 1; Serial Nos. 417,325–6; published May 23, 1939. Class 46.
Church & Dwight Co. Inc., New York, N. Y. Bicarbonate of soda, saleratus, and baking-powder. 369,829; Aug. 1; Serial No. 417,327; published May 23, 1939. Class 6.
Cohen, Jos. S., & Sons Co., Inc., New York, N. Y. Frocks and dresses. 369,630; Aug. 1; Serial No. 414,726; published May 9, 1939. Class 39.
Cohn, H. C., & Co., Rochester, N. Y. Neckties. 369,847; Aug. 1. Class 39.
College of Electronic Medicine, Blanche & Jeanne R. Abrams Memorial Foundation, San Francisco, Calif. Diagnostic tuning devices for medical use. 369,590; Aug. 1; Serial No. 413,001; published May 23, 1939. Class 44.
Colorado Milling & Elevator Co., doing business as Farmers Flour Mills, Denver and Berthoud, Colo. Wheat flour. 369,724; Aug. 1; Serial No. 417,083; published May 23, 1939. Class 46.
Columbia Mills, Inc., The, New York, N. Y. Window shade cloth. 369,723; Aug. 1; Serial No. 417,081; published May 9, 1939. Class 42.
Columbia Products Corporation, Brooklyn, N. Y. Covers of oil-silk, oil-skin, and flexible fabrics. 369,794; Aug. 1; Serial No. 417,641; published May 23, 1939. Class 50.
Conn, C. G., Ltd., Elkhart, Ind. Metal bells for musical instruments. 369,770; Aug. 1; Serial No. 417,444; published May 23, 1939. Class 36.
Conn, C. G., Ltd., Elkhart, Ind. Metal keys for musical instruments. 369,771; Aug. 1; Serial No. 417,445; published May 23, 1939. Class 36.
Connell Bros. Company Limited, San Francisco, Calif. Canned fruits and vegetables. 369,838; Aug. 1. Class 46.
Considine, Dennis F., doing business as Roseria Company, Chicago, Ill. Preparation for treatment of the eyes. 369,814; Aug. 1; Serial No. 417,958; published May 16, 1939. Class 6.
Crispo Cake Cone Co., St. Louis, Mo. Edible baked cups in the nature of ice cream cones. 369,843; Aug. 1. Class 46.
Crosley Corporation, The, Cincinnati, Ohio. Facsimile apparatus to be used with radio apparatus. 369,634; Aug. 1; Serial No. 414,984; published May 23, 1939. Class 21.
Darco Corporation, Wilmington, Del. Adsorptive and decolorizing carbon. 369,698; Aug. 1; Serial No. 416,788; published May 16, 1939. Class 6.
Debs Company, The. (See Smaldone, Gerard.)
De Trey Frères Société Anonyme, Zurich, Switzerland. Dental materials. 369,654; Aug. 1; Serial No. 415,868; published May 23, 1939. Class 44.
Dickman, Stephen R., New York, N. Y. Cosmetics. 369,737; Aug. 1; Serial No. 417,205; published May 23, 1939. Class 6.
Distillers Agency Limited, The, Edinburgh, Scotland. Scotch whisky. 369,637; Aug. 1; Serial No. 415,076; published May 23, 1939. Class 49.

Dittman, J. F., Company, Inc., New York, N. Y. Women's wearing apparel. 369,601; Aug. 1; Serial No. 413,981; published May 16, 1939. Class 39.
Diversey Corporation, The, Chicago, Ill. Cleanser. 369,630; Aug. 1; Serial No. 416,549; published May 23, 1939. Class 4.
Dobeckmun Company, The, Cleveland, Ohio. Wrappers. 369,733; Aug. 1; Serial No. 417,165; published May 23, 1939. Class 37.
Donnelly Garment Sales Company, Kansas City, Mo. Women's and misses' suits, slacks, shirts, etc. 369,615; Aug. 1; Serial No. 412,961; published May 9, 1939. Class 39.
Drake, Robert Z., Omaha, Nebr. Lumber. 369,585; Aug. 1; Serial No. 410,584; published May 16, 1939. Class 12.
Dunham, C. A., Company, Marshalltown, Iowa, to C. A. Dunham Company, Chicago, Ill. Steam-heating apparatus. 127,926; renewed Dec. 16, 1939.
Du Pont, E. I., de Nemours and Company, Wilmington, Del. Dyes and dyestuffs. 369,759; Aug. 1; Serial No. 417,362; published May 23, 1939. Class 6.
Eagle Clothes, New York, N. Y. Overcoats, topcoats, and suits. 369,612; Aug. 1; Serial No. 412,700; published May 16, 1939. Class 39.
Eclipse Counterbore Company, Detroit, Mich. Metal boring machine tools. 369,594; Aug. 1; Serial No. 413,577; published Apr. 25, 1939. Class 23.
Edwal Laboratories, Inc., The, Chicago, Ill. Chemicals and mixtures of chemicals for use in photographic developing processes. 369,746; Aug. 1; Serial No. 417,271; published May 23, 1939. Class 6.
Effervescent Products, Ltd., Chicago, Ill. Fire extinguishing compound. 369,709; Aug. 1; Serial No. 416,952; published May 16, 1939. Class 6.
Ehlers, Albert, Inc., Brooklyn, N. Y. Coffee. 369,655; Aug. 1; Serial No. 415,887; published May 23, 1939. Class 46.
Ely & Walker Dry Goods Company, St. Louis, Mo. Cotton goods. 128,056; renewed Dec. 23, 1939.
Esmond, Gundlach and Company. (See Gundlach, George P.)
Eta S. A. Fabrique d'Ebauches, Grenchen, Switzerland. Watch movements. 369,623; Aug. 1; Serial No. 414,438; published Feb. 28, 1939. Class 27.
Euclid Candy Co. of Illinois, Inc., The, Chicago, Ill. Candy. 369,620; Aug. 1; Serial No. 414,173; published May 23, 1939. Class 46.
Even-Pul Foundations, New York, N. Y. Brassières, girdles, corselets, etc. 369,833; Aug. 1. Class 39.
Fabrique d'Horlogerie de Fontainemelon, Fontainemelon, Switzerland. Watch movements. 369,624; Aug. 1; Serial No. 414,440; published Feb. 28, 1939. Class 27.
Fa-Cile Fastener Corporation, New York, N. Y. Bag fasteners. 369,628; Aug. 1; Serial No. 414,597; published May 23, 1939. Class 3.
Farmer, Charles D., Detroit, Mich. Bath salts and water softener. 369,820; Aug. 1; Serial No. 418,097; published May 23, 1939. Class 6.
Farmers Flour Mills. (See Colorado Milling & Elevator Co.)
Fels, William, doing business as Century Drug Company, New York, N. Y. Hypnotics and sedatives. 369,714; Aug. 1; Serial No. 417,005; published May 16, 1939. Class 6.
Fingerlin, Eugene, Tulsa, Okla. Preparation adapted to be applied to the hair. 369,817; Aug. 1; Serial No. 418,039; published May 23, 1939. Class 6.
Fingles, W. A., Inc., also doing business as Majestic Flashing Co., Baltimore, Md. Thru wall flashing. 369,785; Aug. 1; Serial No. 417,568; published May 23, 1939. Class 12.
Fisher, Dudley T., Jr., doing business as Dudley Fisher, Columbus, Ohio. Series of cartoons. 369,715; Aug. 1; Serial No. 417,008; published May 16, 1939. Class 38.
Fisher, Gorman L., Jamestown, N. Y. Tables, chairs, benches, etc. 369,827; Aug. 1; Serial No. 418,298; published May 23, 1939. Class 32.
Fisk Rubber Company, The, assignor to The Fisk Rubber Corporation, Chicopee Falls, Mass. Rubber tires. 128,063; renewed Dec. 23, 1939.
Fits-No-Mo Company. (See Rhodes, R. B.)
Flexuede Hosiery. (See Harrison, David A.)
Floridin Company, Warren, Pa. Agent prepared from natural earth. 369,789; Aug. 1; Serial No. 417,608; published May 23, 1939. Class 1.
Folsom Company, The, Dallas, Tex. Electrical sockets, switches, wire fuses, etc. 369,577; Aug. 1; Serial No. 404,846; published May 23, 1939. Class 21.
Forging and Casting Corporation, The, Ferndale, Mich. Steel. 369,801; Aug. 1; Serial No. 417,754; published May 23, 1939. Class 14.
Formost Laboratories Co. (See Amsterdam, Irving.)
Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 369,802; Aug. 1; Serial No. 417,755; published May 23, 1939. Class 42.
Frankenthal, H., doing business as Frankenthal Company, Weslaco, Tex., and Sanger, Calif. Fresh fruits. 369,755; Aug. 1; Serial No. 417,334; published May 23, 1939. Class 46.
Frederick Disinfectant Co., Atlanta, Ga. Floor-dressings. 128,066; renewed Dec. 23, 1939.
Frostkraft Packing Corporation, San Francisco, Calif. Fresh frozen fruits, berries, and vegetables. 369,725; Aug. 1; Serial No. 417,087; published May 23, 1939. Class 46.
Fuji Trading Co., The, Chicago, Ill. Molasses. 369,738; Aug. 1; Serial No. 417,211; published May 23, 1939. Class 46.
Funk, Joe & Ted, New York, N. Y. Coats and suits, skirts, blouses, etc. 369,647; Aug. 1; Serial No. 415,771; published May 16, 1939. Class 39.
Gee, Frances, Garment Co., Kansas City, Mo. Ladies' dresses, frocks, slacks, etc. 369,593; Aug. 1; Serial No. 413,549; published May 16, 1939. Class 39.
Gebring & Neiweiser, Bielefeld, Germany. Preparation for preserving victuals. 369,573; Aug. 1; Serial No. 403,817; published May 16, 1939. Class 6.
Geier, P. A., Company, The, Cleveland, Ohio. Electrically operated suction cleaners. 369,779; Aug. 1; Serial No. 417,490; published May 23, 1939. Class 21.
Gemex Company, Newark, N. J. Watch bracelets and straps, neck chains, etc. 369,627; Aug. 1; Serial No. 414,492; published May 16, 1939. Class 28.
General Mills, Inc., Minneapolis, Minn. Printed recipe cards. 369,600; Aug. 1; Serial No. 413,939; published May 16, 1939. Class 38.
General Motors Corporation, Detroit, Mich. Fluid for hydraulic brakes, shock absorbers, and the like. 369,588; Aug. 1; Serial No. 410,692; published May 16, 1939. Class 6.
General Tobacco and Grocery Company. (See Starkstein, Morris.)
Ghirardelli, D., Co., San Francisco, Calif. Chocolate. 127,045; renewed Oct. 21, 1939.
Glidden Company, The, Cleveland, Ohio. Publication. 369,617; Aug. 1; Serial No. 414,104; published May 16, 1939. Class 38.
Goldschmidt, Th., A.-G., Essen-Ruhr, Germany. Adhesive cements. 369,604; Aug. 1; Serial No. 411,558; published May 16, 1939. Class 5.
Goodall Worsted Co. (See Lesher, Whitman & Co., Inc.)
Goodman, Harry, New York, N. Y. Dresses. 369,760; Aug. 1; Serial No. 417,364; published May 23, 1939. Class 39.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Heels and soles. 127,406; renewed Nov. 11, 1939.
Graton & Knight Company. (See Edward R. Ladew Company, Inc., assignor.)
Greenfield, M. E., Co., New York, N. Y. Clothes. 128,075; renewed Dec. 23, 1939.
Greif, L., & Bro., Inc., Baltimore, Md. Suits, topcoats, overcoats, etc. 369,591; Aug. 1; Serial No. 413,012; published Mar. 7, 1939. Class 39.
Gross Machinery Co. Inc., Buffalo, N. Y. Laundry machinery. 369,599; Aug. 1; Serial No. 413,866; published May 23, 1939. Class 24.
Gudnason, Krist, doing business as Alice Frock Company, Oakland, Calif. Dresses, pajamas, slacks, etc. 369,596; Aug. 1; Serial No. 413,781; published May 9, 1939. Class 39.
Gundlach, George P., doing business as Esmond, Gundlach and Company, Cincinnati, Ohio. Homogenized milk. 369,592; Aug. 1; Serial No. 413,307; published May 16, 1939. Class 46.
Guttman, Joseph, & Bros., Inc., New York, N. Y. Ladies' and misses' sweaters. 369,710; Aug. 1; Serial No. 416,954; published May 16, 1939. Class 39.
H. L. G. Company, Kalamazoo, Mich. Mechanical water softeners. 369,783; Aug. 1; Serial No. 417,538; published May 23, 1939. Class 23.
Hallstar Products, Inc., Scarsdale, N. Y. Antiseptic cream, antiseptic shampoo, and antiseptic ointments. 369,700; Aug. 1; Serial No. 416,850; published May 16, 1939. Class 6.
Haloid Company, The, Rochester, N. Y. Chemical used in photographic developing solutions. 369,692; Aug. 1; Serial No. 416,727; published May 16, 1939. Class 6.
Harris, Constance, Providence, R. I. Newspaper section or column and for heading of a series of cartoons. 369,761; Aug. 1; Serial No. 417,365; published May 16, 1939. Class 38.
Harrison, David A., doing business as Flexuede Hosiery, Boston, Mass. Ladies' full-fashioned silk hosiery. 369,852; Aug. 1. Class 39.
Hartman, Mrs. Maud, doing business as King Cole Muddler, New York, N. Y. Beverage stirrer. 369,657; Aug. 1; Serial No. 415,949; published May 23, 1939. Class 23.
Haspel Bros., Inc., New Orleans, La. Men's suits. 369,611; Aug. 1; Serial No. 412,640; published May 23, 1939. Class 39.
Heil, Edward H., Cleveland, Ohio. Preparation for cleansing false teeth without brushing. 369,607; Aug. 1; Serial No. 412,069; published May 23, 1939. Class 4.
Henkel, A., & Son, Inc., Keene, N. H. Cuticle and nail scissors, cuticle and nail nippers, fingernail clips, etc. 369,622; Aug. 1; Serial No. 414,350; published May 23, 1939. Class 44.
Hermes, S. A., Paris, France. Trunks, traveling bags, suit cases, etc. 369,681; Aug. 1; Serial No. 416,560; published May 23, 1939. Class 3.
Herrick, Ruth C., doing business as Slipper-Sox Co., Minneapolis, Minn. Protective covering for wear over shoes and other footwear. 369,849; Aug. 1. Class 39.

Hiatt, Dean B., Fort Worth, Tex. Daily newspaper features. 369,642; Aug. 1; Serial No. 415,477; published May 16, 1939. Class 38.
Hockmeyer Bros., Inc., New York, N. Y. Piece goods. 369,772; Aug. 1; Serial No. 417,459; published May 23, 1939. Class 42.
Hollidge, C. Crawford, Ltd., Boston, Mass. Women's, misses', and children's outer wearing apparel. 369,567; Aug. 1; Serial No. 399,711; published May 9, 1939. Class 39.
Huddleston, Harold C., Pittsfield, Mass. Liniment. 369,651; Aug. 1; Serial No. 415,843; published May 16, 1939. Class 6.
Hudson, Jerry M., doing business as Hudson Products, Defiance, Ohio. Hog, chicken, and dairy feed. 369,848; Aug. 1. Class 46.
Huffman Full Fashioned Mills, Inc., Morganton, N. C. Hosiery. 369,739; Aug. 1; Serial No. 417,221; published May 16, 1939. Class 39.
Hulbert, R. O., doing business as Hulbert Creeper Company, Ashtabula, Ohio. Repairmen's trucks for working under vehicles. 369,857; Aug. 1. Class 19.
Hyne Company, The, doing business as Peranol Products, Chicago, Ill. Nasal emollients and douches. 369,636; Aug. 1; Serial No. 415,040; published May 23, 1939. Class 6.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Photographic cameras. 369,646; Aug. 1; Serial No. 415,709; published May 23, 1939. Class 26.
Infanticipating Dress Co., New York, N. Y. Dresses. 369,631; Aug. 1; Serial No. 414,738; published May 9, 1939. Class 39.
Instrument Specialties Company, Inc., Little Falls, N. J. Instrument for indicating the condition of storage batteries. 369,597; Aug. 1; Serial No. 413,787; published May 23, 1939. Class 26.
Intermountain Seed & Fuel Company, Twin Falls and Nampa, Idaho. Seeds, seed peas, and seed beans and popcorn. 369,799; Aug. 1; Serial No. 417,693; published May 23, 1939. Class 1.
International Filter Co., Chicago, Ill. Water purifying materials. 369,810; Aug. 1; Serial No. 417,876; published May 23, 1939. Class 6.
International Metallic Packing Corporation, Chicago, Ill. Metallic packing. 369,823; Aug. 1; Serial No. 418,224; published May 23, 1939. Class 35.
Interstate Laboratories, Incorporated, Louisville, Ky. Medicated eye pads. 369,786; Aug. 1; Serial No. 417,579; published May 23, 1939. Class 6.
Iosaline Company, The. (See Taliaferro, H. B.)
Irwill Knitwear Corp., New York, N. Y. Knitted sweaters. 369,674; Aug. 1; Serial No. 416,422; published May 16, 1939. Class 39.
Irwin, Neisler & Co., Decatur, Ill. Hypertonic antiseptic dressing. 369,815; Aug. 1; Serial No. 417,965; published May 23, 1939. Class 6.
Irwin, Neisler & Co., Decatur, Ill. Medicinal tablets. 369,816; Aug. 1; Serial No. 417,966; published May 23, 1939. Class 6.
Jests, Inc., New York, N. Y. Preparation used for indigestion and as an anti-acid. 369,727–9; Aug. 1; Serial Nos. 417,126–8; published May 23, 1939. Class 6.
Johnson, Nestor, Manufacturing Company, Chicago, Ill. Ice skates and skate outfits. 369,822; Aug. 1; Serial No. 418,208; published May 23, 1939. Class 22.
Johnson, Samuel R., doing business as Johnson Laboratories, Kansas City, Mo. Mercolated tablets, disinfectant spray, salve, etc. 369,830; Aug. 1; Serial No. 418,345; published May 23, 1939. Class 6.
Jolly Joan, Portland, Oreg. Gelatine desserts. 369,602; Aug. 1; Serial No. 411,055; published May 23, 1939. Class 46.
Jones, Katherene T., Baltimore, Md. Preparations for acne, sunburn, cuts, etc. 369,635; Aug. 1; Serial No. 415,003; published May 23, 1939. Class 6.
Jones, S. M., doing business as S. M. Jones & Company, New Bern, N. C. Fresh vegetables. 369,855; Aug. 1. Class 46.
Kaiko Photo Products. (See Kalish, Charles.)
Kalish, Charles, doing business as Kaiko Photo Products, Brooklyn, N. Y. Easels, photographic printing boxes, photographic enlargers, etc. 369,773; Aug. 1; Serial No. 417,461; published May 23, 1939. Class 26.
Kayser, Julius, & Co., New York, N. Y. Hosiery. 369,740; Aug. 1; Serial No. 417,222; published May 16, 1939. Class 39.
Kearney, James R., Corporation, St. Louis, Mo. Tools and parts thereof. 369,580; Aug. 1; Serial No. 405,507; published May 23, 1939. Class 23.
Keller, Heumann & Thompson Company, Inc., Rochester, N. Y. Suits and overcoats. 369,747; Aug. 1; Serial No. 417,283; published May 23, 1939. Class 39.
Kendall Company, The, Walpole, Mass. Fabrics. 369,606; Aug. 1; Serial No. 411,872; published May 23, 1939. Class 42.
Kendall Company, The, Walpole, Mass. Medicated adhesive plasters. 369,641; Aug. 1; Serial No. 415,457; published May 16, 1939. Class 6.
Kenny, William F., Company, The, New York, N. Y. Fresh fruits and vegetables. 369,711; Aug. 1; Serial No. 416,958; published May 23, 1939. Class 46.
Kensington, Incorporated, New Kensington, Pa. Tea pots, coffee pots, cocktail shakers, etc. 369,556; Aug. 1; Serial No. 374,196; published May 23, 1939. Class 13.
King Cole Muddler. (See Hartman, Mrs. Maud.)
Kresge, Sebastian S., doing business as Kresge Department Store, Newark, Newark, N. J. Hand bags, portfolios, brief cases, etc. 369,609; Aug. 1; Serial No. 412,507; published May 23, 1939. Class 3.
Kress & Owen Company, New York, N. Y. Cough drops. 369,803; Aug. 1; **Serial No. 417,766; published** May 16, 1939. Class 6.
Ladew, Edward R., Company, Inc., Glen Cove, N. Y., assignor to Graton & Knight Company, Worcester, Mass. Leather belting. 128,092–3; renewed Dec. 23, 1939.
Lances, Edith, Brassieres, New York, N. Y. Brassières, corsets, slips, etc. 369,842; Aug. 1. Class 39.
La Resista Corset Company, The, Bridgeport, Conn. Elastic textile piece goods. 369,586; Aug. 1; Serial No. 410,590; published May 23, 1939. Class 42.
Latrobe Tool Company, Latrobe, Pa., assignor to United Drill and Tool Corporation, Chicago, Ill. Twist-drills. 127,078; renewed Oct. 21, 1939.
Lees, James, & Sons Company, Bridgeport, Pa. Crochet and knitting cotton. 369,784; Aug. 1; Serial No. 417,540; published May 23, 1939. Class 43.
Lelong, Lucien, Inc., Chicago, Ill. Perfumes. 369,589; Aug. 1; Serial No. 410,742; published May 23, 1939. Class 6.
Lesher, Whitman & Co., Inc., New York, N. Y., to Goodall Worsted Co., Sanford, Maine, successor. Fabric. 128,105; renewed Dec. 23, 1939.
Levine, Max, & Company, New York, N. Y. Women's dresses and suits. 369,734; Aug. 1; Serial No. 417,175; published May 16, 1939. Class 39.
Levy, Maurice, doing business as Malvy, New York, N. Y. Perfume. 369,821; Aug. 1; Serial No. 418,110; published May 23, 1939. Class 6.
Levy, Moe, & Son, Inc., New York, N. Y. Men's haberdashery. 369,832; Aug. 1. Class 39.
Liondale Shirt Co. Inc., The, assignor to Liondale Shirt Corporation, New York, N. Y. Shirts. 128,110; renewed Dec. 23, 1939.
Little Tommy Tucker Coats, Inc., New York, N. Y. Boys' coats. 369,665; Aug. 1; Serial No. 416,195; published May 23, 1939. Class 39.
Loomis, W. H., Talc Corporation, Gouverneur, N. Y. Insecticide and inert carrier and diluent for insecticides and fungicides. 369,699; Aug. 1; Serial No. 416,806; published May 16, 1939. Class 6.
Loveman, Joseph, & Loeb, Birmingham, Ala. Sheets and pillow cases. 369,625; Aug. 1; Serial No. 414,454; published May 23, 1939. Class 42.
Lynch, Josephine A., doing business as The Lynch Studios, Los Angeles, Calif. Roast racks. 369,682; Aug. 1; Serial No. 416,571; published May 23, 1939. Class 13.
MacGruder, W. W., Denver, Colo. Gum massaging preparation. 369,652; Aug. 1; Serial No. 415,847; published May 23, 1939. Class 6.
Maid-O'-Mist, Inc., Chicago, Ill. Automatic humidifiers. 369,557; Aug. 1; Serial No. 376,292; published May 23, 1939. Class 34.
Majestic Flashing Co. (See Fingles, W. A., Inc.)
Malvy. (See Levy, Maurice.)
Mantos, Gust, San Francisco, Calif. Liquid preparation for the treatment of the hair. 369,716; Aug. 1; Serial No. 417,026; published May 16, 1939. Class 6.
McKenzie, Joel B., doing business as Triangle Poultry Farm, Newfield, N. J. Eggs. 369,562; Aug. 1; Serial No. 396,962; published May 23, 1939. Class 46.
McLaurin-Jones Co., Brookfield, Mass. Gummed fabric and gummed fabric tape. 369,748; Aug. 1; Serial No. 417,291; published May 23, 1939. Class 5.
Merck & Co. Inc., Rahway, N. J. Sedative and soporific preparation. 369,701; Aug. 1; Serial No. 416,861; published May 16, 1939. Class 6.
Metzger, William E., Rutland, Vt. Awnings. 369,845; Aug. 1. Class 50.
Mock, Judson, Voehringer Co. of New York, Inc., Long Island City, N. Y. Section of a periodical publication. 369,639; Aug. 1; Serial No. 415,135; published May 16, 1939. Class 38.
Mohn Brothers Company, Reading, Pa. Hats bodies 369,853; Aug. 1. Class 39.
Mokotowska Fabryka Chemiczno-Farmaceutyczna Adolf Gasecki i Synowie Spolka Akcyjna, Warsaw, Poland. Powders for headaches, migraine, neuralgia, etc. 369,568; Aug. 1; Serial No. 400,582; published May 23, 1939. Class 6.
Montru for Beauty. (See Ruden, Mortimer.)
Moore Dry Kiln Company of Oregon, North Portland, Oreg. Dry kilns. 369,584; Aug. 1; Serial No. 408,468; published May 23, 1939. Class 34.
Mutual Rosenbloom Corporation, New York, N. Y. Women's and misses' wearing apparel. 369,610; Aug. 1; Serial No. 412,522; published May 9, 1939. Class 39.
Myers, Herbert G., doing business as My-Len Sales Company, Chicago, Ill. Hosiery. 369,616; Aug. 1; Serial No. 414,077; published May 9, 1939. Class 39.
My-Len Sales Company. (See Myers, Herbert G.)
N. V. Hollandsche Draad- en Kabelfabriek, Amsterdam, Netherlands. Liquid adhesive preparation. 369,621; Aug. 1; Serial No. 414,306; published May 16, 1939. Class 5.
Naamlooze Vennootschap Maatschappij voor Wasverwerking, Amersfoort, Netherlands. Fly-catchers and fly-ribbons. 369,762; Aug. 1; Serial No. 417,408; published May 23, 1939. Class 50.

National Aniline & Chemical Company, Inc., New York, N. Y. Coal-tar dyestuffs. 126,949; renewed Oct. 14, 1939.

National Aniline & Chemical Company, Inc., New York, N. Y. Food-colors. 127,769; renewed Dec. 2, 1939.

National Broom Mfg. Co., The, Pueblo, Colo. Insecticides. 369,831; Aug. 1; Serial No. 418,354; published May 23, 1939. Class 6.

National Carbon Company, Inc., New York, N. Y. Carbon products. 369,662; Aug. 1; Serial No. 416,108; published May 16, 1939. Class 12.

National Electric Screen Corp., Chicago, Ill. Electrical insect exterminating screens and traps. 369,640; Aug. 1; Serial No. 415,412; published May 16, 1939. Class 21.

National Graphite Co. Inc., New York, N. Y. Supplementary lubricating oils. 369,694; Aug. 1; Serial No. 416,771; published May 16, 1939. Class 15.

National Sales Company, Cleveland, Ohio. Miniature boxing gloves intended for use as a talisman, charm or trophy. 369,683; Aug. 1; Serial No. 416,578; published May 23, 1939. Class 50.

National Silver Company, New York, N. Y. Sterling silver and silver plated flatware, hollow ware, and tableware. 369,795–6; Aug. 1; Serial Nos. 417,652–3; published May 23, 1939. Class 28.

Nau, Frank (Inc.), Portland, Oreg. Antiseptic mouth wash. 369,749; Aug. 1; Serial No. 417,296; published May 23, 1939. Class 6.

Neptune Garment Company, Boston, Mass. Topcoats and raincoats. 369,576; Aug. 1; Serial No. 404,580; published May 2, 1939. Class 39.

Nestra Packing Company, Berkley, Mich. Dog food. 369,763; Aug. 1; Serial No. 417,409; published May 23, 1939. Class 46.

Newman Pharmacal Company, Louisville, Ky. Alkaline silicate bismuth powder. 369,774; Aug. 1; Serial No. 417,469; published May 23, 1939. Class 6.

Nuodex Products Co., Inc., Elizabeth, N. J. Chemical grinding agents. 369,629; Aug. 1; Serial No. 414,603; published May 16, 1939. Class 6.

Nyal Company, Detroit, Mich. Ointment. 369,805; Aug. 1; Serial No. 417,816; published May 16, 1939. Class 6.

Nyal Company, Detroit, Mich. Ointment. 369,806; Aug. 1; Serial No. 417,818; published May 16, 1939. Class 6.

Nyal Company, Detroit, Mich. Preparation used in the treatment of coughs and throat irritations. 369,807; Aug. 1; Serial No. 417,819; published May 16, 1939. Class 6.

Nyal Company, Detroit, Mich. Effervescent salt preparation. 369,808; Aug. 1; Serial No. 417,821; published May 16, 1939. Class 6.

Oberman & Company, Jefferson City, Mo. Shirts, pants, and jackets. 369,559; Aug. 1; Serial No. 388,366; published May 16, 1939. Class 39.

O'Donnell Shoe Company, St. Paul, Minn. Shoes. 369,840; Aug. 1. Class 39.

Palmer House Company, Chicago, Ill. Whiskies, brandies, gins, etc. 369,828; Aug. 1; Serial No. 418,309; published May 23, 1939. Class 49.

Pappy's Ice Cream Biscuit Co., College Station, Tex. Frozen confection. 369,702; Aug. 1; Serial No. 416,867; published May 23, 1939. Class 46.

Pearson Pharmacal Company, Inc., New York, N. Y. Deodorant. 369,579; Aug. 1; Serial No. 405,316; published May 16, 1939. Class 6.

Peerless Laboratories, Inc., New York, N. Y. X-ray generators. 369,648; Aug. 1; Serial No. 415,792; published May 23, 1939. Class 44.

Penn American Refining Co., assignor to The Pennzoil Company, Oil City, Pa. Oil, and paraffin-wax. 127,864; renewed Dec. 9, 1939.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Rayon and silk piece goods. 369,813; Aug. 1; Serial No. 417,933; published May 23, 1939. Class 42.

Pennzoil Company, The. (See Penn American Refining Co., assignor.)

Pepperell Manufacturing Company, Boston, Mass. Blankets. 369,775; Aug. 1; Serial No. 417,471; published May 23, 1939. Class 42.

Peranol Products, The. (See Hyne Company.)

Perfect Garment Company. (See Sobelman, Morris.)

Pickaway Canning Company, The, Circleville, Ohio. Canned vegetables. 369,703; Aug. 1; Serial No. 416,869; published May 23, 1939. Class 46.

Pi-Lo-Ra Company, Inc., The, Denison, Tex. Ointment. 369,825; Aug. 1; Serial No. 418,263; published May 23, 1939. Class 6.

Pitcairn, Raymond, doing business as Sentinel Features, Philadelphia, Pa. Syndicated newspaper features. 369,688; Aug. 1; Serial No. 416,699; published May 16, 1939. Class 38.

Plant & Barnes, also doing business as American Drugs Produce Co., Oakland, Calif. Laxative. 369,717; Aug. 1; Serial No. 417,029; published May 16, 1939. Class 6.

Pollak, Henry, Inc., New York, N. Y. Felt and straw hat bodies. 369,854; Aug. 1. Class 39.

Pope & Gray, Inc., New York, N. Y. Printing and lithographic inks and greases and compounds for adjusting the physical properties of such inks. 369,598; Aug. 1; Serial No. 413,797; published May 16, 1939. Class 11.

Puritan Soap Company, assignor to Puritan Soap Company, Inc., Rochester, N. Y. Top finish or dressing for automobiles. 369,560; Aug. 1; Serial No. 391,396; published May 23, 1939. Class 4.

Quality Products Co., Inc., New York, N. Y. Toilet and cosmetic preparations. 369,811; Aug. 1; Serial No. 417,890; published May 23, 1939. Class 6.

Rand, Harry, doing business as Rand & Rand, Philadelphia, Pa. Dresses. 369,572; Aug. 1; Serial No. 403,521; published May 9, 1939. Class 39.

Reid, Elmer A., Morrisville, Pa. Electrical therapeutic vaporizer and humidifier. 369,563; Aug. 1; Serial No. 398,019; published May 23, 1939. Class 44.

Reliance Manufacturing Company, Chicago, Ill. Children's play suits. 369,570; Aug. 1; Serial No. 401,509; published May 16, 1939. Class 39.

Revlon Nail Enamel Corporation, The, New York, N. Y. Enamel adapted for coating finger nails. 369,818; Aug. 1; Serial No. 418,060; published May 23, 1939. Class 6.

Rhodes, R. B., doing business as Fits-No-Mo Company, Savannah, Ga.. Dog medicine. 369,797; Aug. 1; Serial No. 417,655; published May 16, 1939. Class 6.

Richards, Wesley A., Detroit, Mich. Medicated scalp pomade. 369,741; Aug. 1; Serial No. 417,235; published May 23, 1939. Class 6.

Ripley, C. A., doing business as Ripley Vegetable Co., Mercedes, Tex. Fresh vegetables. 369,851; Aug. 1. Class 46.

Rolite, doing business as Burson Knitting Company, Rockford, Ill. Electric current generators. 369,776; Aug. 1; Serial No. 417,473; published May 23, 1939. Class 21.

Roller Bearing Company of America, Trenton, N. J. Roller bearings. 369,666; Aug. 1; Serial No. 416,206; published May 23, 1939. Class 23.

Rosenblatt, Sol L., & Co., Inc., New York, N. Y. Nightgowns, slips, pajamas, etc. 369,663; Aug. 1; Serial No. 416,160; published May 9, 1939. Class 39.

Roseria Company. (See Considine, Dennis F.)

Ruden, Mortimer, doing business as Montru for Beauty, New York, N. Y. Packaged hair pomade and dressing. 369,787; Aug. 1; Serial No. 417,587; published May 23, 1939. Class 6.

Rubin, Ben, Inc., New York, N. Y. Dresses. 369,689; Aug. 1; Serial No. 416,701; published May 9, 1939. Class 39.

Runnymede Mills, Inc., Tarboro, N. C. Hosiery. 369,693; Aug. 1; Serial No. 416,748; published May 9, 1939. Class 39.

St. Charles Technical Laboratories, Inc., St. Charles, Ill. Fluorescent tubing. 369,667; Aug. 1; Serial No. 416,209; published May 23, 1939. Class 21.

Salted in the Shell, Inc., New York, N. Y. Peanuts salted in the shell. 369,726; Aug. 1; Serial No. 417,101; published May 23, 1939. Class 46.

Santa Cruz Artichoke & Sprout Growers, Santa Cruz, Calif. Fresh vegetables. 369,632–3; Aug. 1; Serial Nos. 414,836–7; published May 23, 1939. Class 46.

Saracco, Sebastian, doing business as Sebastian Saracco's Anti-Diabetic Capsules, Paterson, N. J. Antidiabetic capsules. 369,653; Aug. 1; Serial No. 415,863; published May 23, 1939. Class 6.

Schering Corporation, Bloomfield, N. J. Medicinal hormone preparation. 369,730; Aug. 1; Serial No. 417,142; published May 16, 1939. Class 6.

Schering Corporation, Bloomfield, N. J. Medicinal preparations. 369,804; Aug. 1; Serial No. 417,784; published May 16, 1939. Class 6.

Schild, A., S. A., Grenchen, Switzerland. Watch movements. 369,626; Aug. 1; Serial No. 414,471; published Apr. 18, 1939. Class 27.

Seaboard Manufacturing Company, Incorporated, Baltimore, Md. Shirts. 369,660; Aug. 1; Serial No. 416,086; published May 23, 1939. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Mechanics' tools. 369,614; Aug. 1; Serial No. 412,927; published May 23, 1939. Class 23.

Sears, Roebuck and Co., Chicago, Ill. Men's gloves. 369,844; Aug. 1. Class 39.

Seneca Falls Machine Co. (See Adams, O. R., Mfg. Co., assignor.)

Sentinel Features. (See Pitcairn, Raymond.)

Seymour, Jane, Limited, London, England. Astringent lotions, acne lotions, anti-weather creams, etc. 369,558; Aug. 1; Serial No. 386,699; published May 23, 1939. Class 6.

Shannon Hosiery Mills, Inc., Columbus, Ga. Hosiery. 369,704; Aug. 1; Serial No. 416,875; published May 9, 1939. Class 39.

Sharp & Dohme, Incorporated, Philadelphia, Pa. Preparation for the treatment of affections of the nervous system. 369,712; Aug. 1; Serial No. 416,970; published May 16, 1939. Class 6.

Shell Oil Company, San Francisco, Calif. Insecticidal preparations. 369,756–8; Aug. 1; Serial Nos. 417,348–50; published May 23, 1939. Class 6.

Shulton, Inc., New York, N. Y. Saponaceous compounds, shaving cream and sticks, etc. 369,583; Aug. 1; Serial No. 408,170; published May 23, 1939. Class 4.

Sichel, H., & Sons, Limited, London, England. Wine. 369,764; Aug. 1; Serial No. 417,418; published May 23, 1939. Class 47.

Simelson, Joseph, New York, N. Y. Baby cream and powder. 369,587; Aug. 1; Serial No. 410,617; published Dec. 6, 1938. Class 6.

Simon, Harry A., & Bro., New York, N. Y. Gloves and mittens, bathing suits and trunks, etc. 369,595; Aug. 1; Serial No. 413,690; published May 9, 1939. Class 39.

Simpson, C. J., Oakland, Calif. Kitchen food mixers. 369,656; Aug. 1; Serial No. 415,928; published May 23, 1939. Class 23.

Slipper-Sox Co. (See Herrick, Ruth C.)

Smaldone, Gerard, doing business as The Debs Company, Rochester, N. Y. Finger nail stencils. 369,819; Aug. 1; Serial No. 418,069; published May 23, 1939. Class 44.

Smith's Melo Cream Donuts, York, Pa. Doughnuts. 369,649; Aug. 1; Serial No. 415,800; published May 23, 1939. Class 46.

Sobelman, Morris, doing business as Perfect Garment Company, Baltimore, Md. Sports wear for women. 369,643; Aug. 1; Serial No. 415,535; published May 9, 1939. Class 39.

Society of Chemical Industry in Basle, Basel, Switzerland. Coal-tar colors. 126,086; renewed July 22, 1939.

Society of Chemical Industry in Basle, Basel, Switzerland. Indigo. 126,087; renewed July 22, 1939.

Society of Chemical Industry in Basle, Basel, Switzerland. Pharmaceutical product. 126,088; renewed July 22, 1939.

Society of Chemical Industry in Basle, Basel, Switzerland. Preparation having an action on the circulation of the blood. 369,695; Aug. 1; Serial No. 416,780; published May 16, 1939. Class 6.

Standard Lime and Stone Company, The, Baltimore, Md. Flux. 369,690; Aug. 1; Serial No. 416,708; published May 23, 1939. Class 6.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Materials for chemically treating metallic surfaces. 369,780; Aug. 1; Serial No. 417,508; published May 16, 1939. Class 6.

Starkstein, Morris, doing business as General Tobacco and Grocery Company, Detroit, Mich. Canned vegetables. 369,685; Aug. 1; Serial No. 416,660; published May 23, 1939. Class 46.

Star-Maid Dresses, Inc., New York, N. Y. Dresses, coats, jackets, etc. 369,836; Aug. 1. Class 39.

Stetson China Company, Inc., Chicago, Ill. China tableware. 369,578; Aug. 1; Serial No. 404,922; published May 23, 1939. Class 30.

Sunderland, Elsie, Los Angeles, Calif. Piece goods. 369,705; Aug. 1; Serial No. 416,878; published May 23, 1939. Class 42.

Supreme Olive Oil Corporation, San Fernando, Calif. Soaps. 369,686; Aug. 1; Serial No. 416,661; published May 23, 1939. Class 4.

Taliaferro, H. B., doing business as The Iosaline Company, Washington, D. C. Analgesic. 369,750; Aug. 1; Serial No. 417,310; published May 23, 1939. Class 6.

Tappan Stove Company, The, Mansfield, Ohio. Cooking apparatus. 369,706; Aug. 1; Serial No. 416,879; published May 23, 1939. Class 34.

Tasty-Krisp Products, Inc., Detroit, Mich. Salted and buttered popcorn. 369,846; Aug. 1. Class 46.

Tefft-Jackson, Incorporated, Providence, R. I. Valve and damper position gauges, indicators, and measuring devices. 369,638; Aug. 1; Serial No. 415,091; published May 23, 1939. Class 26.

Thomas Publishing Company, New York, N. Y. Periodical. 369,707; Aug. 1; Serial No. 416,880; published May 16, 1939. Class 38.

Tire and Rim Association, Inc., The, Cleveland, Ohio. Vehicle wheels, and rims for vehicle wheels. 369,668; Aug. 1; Serial No. 416,213; published May 23, 1939. Class 19.

Tishman, Lou, Co. Inc., New York, N. Y. Women's and misses' coats and suits. 369,743; Aug. 1; Serial No. 417,240; published May 16, 1939. Class 39.

Trabulsi Textile Co. Inc., New York, N. Y. Mufflers and scarfs. 369,839; Aug. 1. Class 39.

Transpar Corporation, Chicago, Ill. Furniture protectors, furniture covers, slip covers, etc. 369,781; Aug. 1; Serial No. 417,513; published May 23, 1939. Class 32.

Triangle Poultry Farm. (See McKenzie, Joel B.)

Union Asbestos & Rubber Company, Cicero, Ill. Woven insulating blankets of glass wool fibers. 369,718; Aug. 1; Serial No. 417,038; published May 16, 1939. Class 12.

Union Asbestos & Rubber Company, Cicero, Ill. Rigid insulating blocks and half tubular members. 369,719; Aug. 1; Serial No. 417,039; published May 16, 1939. Class 12.

Union Asbestos & Rubber Company, Cicero, Ill. Rigid insulating material and suitable binder. 369,720; Aug. 1; Serial No. 417,040; published May 16, 1939. Class 12.

United Drill and Tool Corporation. (See Latrobe Tool Company, assignor.)

United Elastic Corporation, Easthampton, Mass. Elastic webbing. 369,603; Aug. 1; Serial No. 411,315; published May 23, 1939. Class 42.

United Toilet Goods Corp., New York, N. Y. Toilet water, sachet, bath powder, etc. 369,659; Aug. 1; Serial No. 416,003; published May 23, 1939. Class 6.

United Workingmen's Boot & Shoe Mfg. Co., assignor to Buckingham & Hecht, San Francisco, Calif. Boot and shoes. 127,254; renewed Oct. 28, 1939.

Universal Camera Corporation, New York, N. Y. Cameras. 369,618; Aug. 1; Serial No. 414,169; published May 23, 1939. Class 26.

Universal Camera Corporation, New York, N. Y. Photographic lenses. 369,619; Aug. 1; Serial No. 414,170; published May 23, 1939. Class 26.

Utica Cutlery Company, Utica, N. Y. Pocket and table knives. 369,650; Aug. 1; Serial No. 415,809; published May 23, 1939. Class 23.

Vanderbilt, R. T., Company, Inc., New York, N. Y. Mixture of accelerators capable of effecting vulcanization of rubber. 369,798; Aug. 1; Serial No. 417,671; published May 23, 1939. Class 6.

Vanity Fair Silk Mills, Reading, Pa. Underwear. 369,696; Aug. 1; Serial No. 416,781; published May 23, 1939. Class 39.

Vermont Marble Company, Proctor, Vt. Marble provided with a water-proof finish. 369,731; Aug. 1; Serial No. 417,151; published May 23, 1939. Class 1.

Vogel, Jerry, Music Co., Inc., New York, N. Y. Sheet music and books of music. 369,765; Aug. 1; Serial No. 417,421; published May 16, 1939. Class 38.

Voogt, C. E., Candy Co., Chicago, Ill. Chocolate coated candies. 369,687; Aug. 1; Serial No. 416,665; published May 23, 1939. Class 46.

Wagner, Nicholas H., Jr., Media, Pa. Leather horse boots. 369,751; Aug. 1; Serial No. 417,316; published May 23, 1939. Class 3.

Waite Grass Carpet Company, Oshkosh, Wis., now, by change of name, to Waite Carpet Company. Floor-rugs. 128,196–7; renewed Dec. 23, 1939.

Warner Brothers Company, The, Bridgeport, Conn. Women's undergarments. 369,850; Aug. 1. Class 39.

Wartsky, Morris, New York, N. Y. Boleros, jackets, vests, and blouses. 369,742; Aug. 1; Serial No. 417,243; published May 23, 1939. Class 39.

Warwick Chemical Company, West Warwick, R. I. Compound for softening textile fabrics and leather. 369,669; Aug. 1; Serial No. 416,301; published May 16, 1939. Class 6.

Wasson, H. P., & Company, Indianapolis, Ind. Shirts, neckties, socks, etc. 369,841; Aug. 1. Class 39.

Wesco Foods Company, Cincinnati, Ohio. Evaporated milk. 369,575; Aug. 1; Serial No. 404,098; published May 16, 1939. Class 46.

Western Auto Supply Company, The, doing business as Western Auto Stores and as The Western Auto Supply Company, Kansas City, Mo. Paint. 369,790; Aug. 1; Serial No. 417,632; published May 23, 1939. Class 16.

Western Venetian Blind Co., North Bergen, N. J. Venetian blinds, roller blinds, woodweb shades, etc. 369,791; Aug. 1; Serial No. 417,634; published May 23, 1939. Class 32.

White, Morris, Mfg. Co., Inc., New York, N. Y. Handbags. 369,744; Aug. 1; Serial No. 417,245; published May 23, 1939. Class 3.

Wicks Organ Company, Highland, Ill. Pipe organs. 369,675; Aug. 1; Serial No. 416,494; published Apr. 25, 1939. Class 36.

Wilkes-Barre Lace Manufacturing Company, Wilkes-Barre, Pa., and New York, N. Y. Lace curtains. 369,800; Aug. 1; Serial No. 417,728; published May 23, 1939. Class 42.

LIST OF REGISTRANTS OF LABELS

Atlantic Coast Fisheries Corporation of New York, New York, N. Y. Atlanco Ocean Fish Fillets. For Fillets. 53,315; Aug. 1.

Baltimore Chewing Gum Co., Baltimore, Md. Goetze's. For Peppermint Gum. 53,316; Aug. 1.

Bawden Brothers Inc., Davenport, Iowa. Bor-A-Gated. For Cotton Insulation. 53,317; Aug. 1.

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Sugar Cookies. For Sugar Cookies. 53,318; Aug. 1.

Brandt, Irving, & Co., Chicago, Ill. Smart Braces. For Braces. 53,319; Aug. 1.

Cahoone, William M., Pasadena, Calif. Bohemian. For Cheese. 53,320; Aug. 1.

Cribari, B., & Sons, New York, N. Y. Bialy Orzel. For Polish Type Whiskey. 53,321; Aug. 1.

Crown Can Company, The, Philadelphia, Pa. Stero-Vac. For Canned Whole Grain Bantam Corn. 53,322; Aug. 1.

F & R Novelty Company. (See Mentzer, Ralph.)

Geoghegan, Patrick H., Los Angeles, Calif. G-A-O-W Lotion. For a Lotion for the Relief of Itching. 53,323; Aug. 1.

Hills Bros. Coffee, Inc., San Francisco, Calif. Hills Bros. Coffee—Red Can Brand. For Coffee. 53,324; Aug. 1.

Liane Incorporated, Freeport, Ill. Liane Quality-Tested Shampoo. For Shampoo. 53,326; Aug. 1.

Mead Johnson & Company, Evansville, Ind. Mead's Pectin-Agar in Dextri-Maltose. For a Product Consisting of Pectin, Agar, Maltose, Dextrins, and Sodium Chloride. 53,325; Aug. 1.

Mentzer, Ralph, doing business as F & R Novelty Company, Youngstown, Ohio. Delicious Ball Gum. For Ball Gum Vending Machines. 53,327; Aug. 1.

Mono Service Co., Newark, N. J. Mono Panda Kup. For Ice Cream. 53,328; Aug. 1.

National Potato Chip Institute, The, Cleveland, Ohio. Potato Chips. For Potato Chips. 53,329; Aug. 1.

New York Toy & Game Manufacturing Co. (See Rubin, Louis.)

Parco Products Co. (See Parrott, C. F.)

Parrott, C. F., doing business as Parco Products Co., Allentown, Pa. Parnox. For a Weed Exterminator. 53,330; Aug. 1.

Rubin, Louis, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Stanley Cup Ice Hockey Game. For a Game. 53,331; Aug. 1.

Rubin, Louis, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Let's Cook! For a Game. 53,332; Aug. 1.

Selmer, H. & A., Inc., Elkhart, Ind. Selmer Magni-Tone Ligature. For Ligatures. 53,333; Aug. 1.

Swanson Brothers, Incorporated, Chicago, Ill. Gold Coast. For Coffee. 53,334; Aug. 1.

Swanson Brothers, Incorporated, Chicago, Ill. Zephyr. For Coffee. 53,335; Aug. 1.

Tivoli Brewing Company, Detroit, Mich. Altes Lager. For Beer. 53,336; Aug. 1.

Wampole, Henry K., & Co., Incorporated, Philadelphia, Pa. Wampole's Preparation. For a Tonic and Stimulant. 53,337; Aug. 1.

Weco Products Company, Chicago, Ill. Dr. West's Water-Proofed. For Tooth Brushes. 53,338; Aug. 1.

Weigold, Emma L., Dayton, Ohio. Pinky. For a Cleaner. 53,339; Aug. 1.

LIST OF REGISTRANTS OF PRINTS

General Mills, Inc., Minneapolis, Minn. Gabby Grabs Himself a Pennant in the 9th. For Cereal Food. 17,521; Aug. 1.

Hills Bros. Coffee, Inc., San Francisco, Calif. Blue Can Brand Hills Bros. Coffee—Adform 1013. For Coffee. 17,522; Aug. 1.

Mars, Incorporated, Chicago, Ill. Try Milky Way Frozen. For Candy. 17,523; Aug. 1.

Pabst Sales Company, Peoria Heights, Ill. You Pay for a License But . . . For Beer. 17,524; Aug. 1.

Ryde, Carl O., Cicero, Ill. Feeds and Nutri-Dients. For Calf Meal, Calf Flakes, Concentrates for Poultry, Swine and Dairy Use, Norwegian Cod Liver Oil, Concentrated Cod Liver Oil, Meat Scraps, Meat scraps and Fish Meal, Digester Tankage, Mineralized Digester Tankage and Nutritive Minerals. 17,525; Aug. 1.

United Paperboard Company, doing business as United Paperboard Company, Inc., New York, Lockport, Thomson, and Victory Mills, N. Y.; Benton Falls, Maine; and Urbana, Ohio. Saw it. For Boxes. 17,526; Aug. 1.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Agent prepared from natural earth. Floridin Company. 369,789; Aug. 1; Serial No. 417,608; published May 23, 1939.

Marble, provided with a waterproof finish. Vermont Marble Company. 369,731; Aug. 1; Serial No. 417,151; published May 23, 1939.

Seeds and seed peas, beans, and popcorn. Intermountain Seed & Fuel Company. 369,799; Aug. 1; Serial No. 417,693; published May 23, 1939.

CLASS 3

Bag fasteners. Fa-Clle Fastener Corporation. 369,628; Aug. 1; Serial No. 414,597; published May 23, 1939.

Bags, portfolios, brief cases, Hand. S. S. Kresge. 369,609; Aug. 1; Serial No. 412,507; published May 23, 1939.

Boots, Leather horse. N. H. Wagner, Jr. 369,751; Aug. 1; Serial No. 417,316; published May 23, 1939.

Handbags. Morris White Mfg. Co. 369,744; Aug. 1; Serial No. 417,245; published May 23, 1939.

Trunks, traveling bags, brief cases, etc. Hermes, S. A. 369,681; Aug. 1; Serial No. 416,560; published May 23, 1939.

CLASS 4

Cleanser. Diversey Corporation. 369,680; Aug. 1; Serial No. 416,549; published May 23,1939.

Finish or dressing for automobiles, Top. Puritan Soap Company. 369,560; Aug. 1; Serial No. 391,396; published May 23, 1939.

Preparation for cleansing false teeth without brushing. E. H. Heil. 369,607; Aug. 1; Serial No. 412,069; published May 23, 1939.

Saponaceous compounds, shaving cream and stocks, etc. Shulton, Inc. 369,583; Aug. 1; Serial No. 408,170; published May 23, 1939.

Soaps. Supreme Olive Oil Corporation. 369,686; Aug. 1; Serial No. 416,661; published May 23, 1939.

CLASS 5

Adhesive preparations, Liquid. N. V. Hollandsche Draadenen Kabelfabriek. 369,621; Aug. 1; Serial No. 414,306; published May 16, 1939.

Cements, Adhesive. Th. Goldschmidt A.-G. 369,604; Aug. 1; Serial No. 411,558; published May 16, 1939.

Gummed fabric and gummed fabric tape. McLaurin-Jones Co. 369,748; Aug. 1; Serial No. 417,291; published May 23, 1939.

CLASS 6

Analgesic. H. B. Taliaferro. 369,750; Aug. 1; Serial No. 417,310; published May 23, 1939.

Antiseptic dressing, Hypertonic. Irwin, Neisler & Co. 369,815; Aug. 1; Serial No. 417,965; published May 23, 1939.

Bath salts and water softener. C. D. Farmer. 369,820; Aug. 1; Serial No. 418,097; published May 23, 1939.

Bicarbonate of soda, saleratus, and baking-soda. Church & Dwight Co. Inc. 369,752; Aug. 1; Serial No. 417,324; published May 23, 1939.

Bicarbonate of sola, saleratus, and baking-powder. Church & Dwight Co. Inc. 369,829; Aug. 1; Serial No. 417,327; published May 23, 1939.

Bismuth powder, Alkaline silicate. Newman Pharmacal Company. 369,774; Aug. 1; Serial No. 417,469; published May 23, 1939.

Capsules, Antidiabetic. S. Saracco. 369,653; Aug. 1; Serial No. 415,863; published May 23, 1939.

Carbon, Adsorptive and decolorizing. Darco Corporation. 369,698; Aug. 1; Serial No. 416,788; published May 16, 1939.

Chemical grinding agents. Nuodex Products Co. 369,629; Aug. 1; Serial No. 414,603; published May 16, 1939.

Chemical used in photographic developing solutions. Haloid Company. 369,692; Aug. 1; Serial No. 416,727; published May 16, 1939.

Chemicals and mixtures of chemicals for use in photographic developing processes. Edwal Laboratories, Inc. 369,746; Aug. 1; Serial No. 417,271; published May 23, 1939.

Chemicals used as water repellents. Arnold, Hoffman & Co. Incorporated. 369,782; Aug. 1; Serial No. 417,521; published May 16, 1939.

Colors, Coal-tar. Society of Chemical Industry in Basle. 126,086; renewed July 22, 1939.

Colors, Food. National Aniline & Chemical Company. 127,769; renewed Dec. 2, 1939.

Compound for softening textile fabrics and leather. Warwick Chemical Company. 369,669; Aug. 1; Serial No. 416,301; published May 16, 1939.

Cosmetics. S. R. Dickman. 369,737; Aug. 1; Serial No. 417,205; published May 23, 1939.

Cough drops. Kress & Owen Company. 369,803; Aug. 1; Serial No. 417,766; published May 16, 1939.

Cream and powder, Baby. J. Simelson. 369,587; Aug. 1; Serial No. 410,617; published Dec. 6, 1938.

Cream, antiseptic shampoo, and antiseptic ointments, Antiseptic. Hallstar Products, Inc. 369,700; Aug. 1; Serial No. 416,850; published May 16, 1939.

Deodorant. Pearson Pharmacal Company. 369,579; Aug. 1; Serial No. 405,316; published May 16, 1939.

Dyes and dyestuffs. E. I. du Pont de Nemours and Company. 369,759; Aug. 1; Serial No. 417,362; published May 23, 1939.

Dyestuffs, Coal-tar. National Aniline & Chemical Company. 126,949; renewed Oct. 14, 1939.

Enamel adapted for coating finger nails. Revlon Nail Enamel Corporation. 369,818; Aug. 1; Serial No. 418,060; published May 23, 1939.

Fire extinguishing compound. Effervescent Products, Ltd. 369,709; Aug. 1; Serial No. 416,952; published May 16, 1939.

Fluid for hydraulic brakes, shock absorbers, and the like. General Motors Corporation. 369,588; Aug. 1; Serial No. 410,692; published May 16, 1939.

Flux. Standard Lime and Stone Company. 369,690; Aug. 1; Serial No. 416,708; published May 23, 1939.

Gum massaging preparation. W. W. MacGruder. 369,652; Aug. 1; Serial No. 415,847; published May 23, 1939.

Hair oils. Chase & Pickenpaugh. 369,581; Aug. 1; Serial No. 405,754; published May 23, 1939.

Hypnotics and sedatives. W. Fels. 369,714; Aug. 1; Serial No. 417,005; published May 16, 1939.

Indigo. Society of Chemical Industry in Basle. 126,087; renewed July 22, 1939.

Insecticidal preparations. Shell Oil Company. 369,756–8; Aug. 1; Serial Nos. 417,348–50; published May 23, 1939.

Insecticide and inert carrier and diluent for insecticides and fungicides. W. H. Loomis Talc Corporation. 369,699; Aug. 1; Serial No. 416,806; published May 16, 1939.

Insecticides. National Broom Mfg. Co. 369,831; Aug. 1; Serial No. 418,354; published May 23, 1939.

Laxative. Plant & Barnes. 369,717; Aug. 1; Serial No. 417,029; published May 16, 1939.

Liniment. L. S. Belleau. 369,645; Aug. 1; Serial No. 415,628; published May 23, 1939.

Liniment. H. C. Huddleston. 369,651; Aug. 1; Serial No. 415,843; published May 16, 1939.

Lipstick, rouge, nail polish. A. Elizabeth, Inc. 369,736; Aug. 1; Serial No. 417,199; published May 23, 1939.

Lotion, Liquid. I. Amsterdam. 369,793; Aug. 1; Serial No. 417,637; published May 23, 1939.

Lotions, acne lotions, anti-weather creams, etc., Astringent. Jane Seymour Limited. 369,558; Aug. 1; Serial No. 386,699; published May 23, 1939.

Materials for chemically treating metallic surfaces. Standard Oil Company of California. 369,780; Aug. 1; Serial No. 417,508; published May 16, 1939.

Medicated adhesive plasters. Kendall Company. 369,641; Aug. 1; Serial No. 415,457; published May 16, 1939.

Medicated eye pads. Interstate Laboratories, Incorporated. 369,786; Aug. 1; Serial No. 417,579; published May 23, 1939.

Medicinal hormone preparation. Schering Corporation. 369,730; Aug. 1; Serial No. 417,142; published May 16, 1939.

Medicinal preparations. Schering Corporation. 369,804; Aug. 1; Serial No. 417,784; published May 16, 1939.

Medicinal tablets. Irwin, Neisler & Co. 369,816; Aug. 1; Serial No. 417,966; published May 23, 1939.

Medicine, Dog. R. B. Rhodes. 369,797; Aug. 1; Serial No. 417,655; published May 16, 1939.

Mercolated tablets, disinfectant spray, salve, etc. S. R. Johnson. 369,830; Aug. 1; Serial No. 418,345; published May 23, 1939.

Mixture of accelerators capable of effecting vulcanization of rubber. R. T. Vanderbilt Company. 369,798; Aug. 1; Serial No. 417,671; published May 23, 1939.

Mouth wash, Antiseptic. Frank Nau (Inc.) 369,749; Aug. 1; Serial No. 417,296; published May 23, 1939.

Nasal emollients and douches. Hyne Company. 369,636; Aug. 1; Serial No. 415,040; published May 23, 1939.

Ointment. Nyal Company. 369,805; Aug. 1; Serial No. 417,816; published May 16, 1939.

Ointment. Nyal Company. 369,806; Aug. 1; Serial No. 417,818; published May 16, 1939.

Ointment. Pi-Lo-Ra Company. 369,825; Aug. 1; Serial No. 418,263; published May 23, 1939.

Ointment, Soothing. A. W. Beal. 369,708; Aug. 1; Serial No. 416,930; published May 23, 1939.

Perfume, M. Levy. 369,821; Aug. 1; Serial No. 418,110; published May 23, 1939.

Perfumes. Lucien Lelong, Inc. 369,589; Aug. 1; Serial No. 410,742; published May 23, 1939.

Pharmaceutical product. Society of Chemical Industry in Basle. 126,088; renewed July 22, 1939.

Pomade and dressing, Packaged hair. M. Ruden. 369,787; Aug. 1; Serial No. 417,587; published May 23, 1939.

Pomade, Medicated scalp. W. A. Richards. 369,741; Aug. 1; Serial No. 417,235; published May 23, 1939.

Powders for headaches, migraine, neuralgia, etc. Mokotowska Fabryka Chemiczno Farmaceutyczna Adolf Gasecki i Synowie Spolka Akcyjna. 369,568; Aug. 1; Serial No. 400,582; published May 23, 1939.

Preparation adapted to be applied to the hair. E. Fingerlin. 369,817; Aug. 1; Serial No. 418,039; published May 23, 1939.

Preparation for preserving victuals. Gehring & Nelweiser. 369,573; Aug. 1; Serial No. 403,817; published May 16, 1939.

Preparation for the treatment of affections of the nervous system. Sharp & Dohme, Incorporated. 369,712; Aug. 1; Serial No. 416,970; published May 16, 1939.

Preparation for the treatment of the hair, Liquid. G. Mantos. 369,716; Aug. 1; Serial No. 417,026; published May 16, 1939.

Preparation for treatment of the eyes. D. F. Considine. 369,814; Aug. 1; Serial No. 417,958; published May 16, 1939.

Preparation having an action on the circulation of the blood. Society of Chemical Industry in Basle. 369,695; Aug. 1; Serial No. 416,780; published May 16, 1939.

Preparation used for indigestion and as an anti-acid. Jests, Inc. 369,727–9; Aug. 1; Serial Nos. 417,126–8; published May 23, 1939.

Preparation used in the treatment of coughs and throat irritations. Nyal Company. 369,807; Aug. 1; Serial No. 417,819; published May 16, 1939.

Preparations for acne, sunburn, cuts, etc. K. T. Jones. 369,635; Aug. 1; Serial No. 415,003; published May 23, 1939.

Salt preparation, Effervescent. Nyal Company. 369,808; Aug. 1; Serial No. 417,821; published May 16, 1939.

Sedative and soporific preparation. Merck & Co. Inc. 369,701; Aug. 1; Serial No. 416,861; published May 16, 1939.

Toilet and cosmetic preparations. Quality Products Co. 369,811; Aug. 1; Serial No. 417,890; published May 23, 1939.

Toilet water, sachet, bath powder, etc. United Toilet Goods Corp. 369,659; Aug. 1; Serial No. 416,003; published May 23, 1939.

Vitamin preparation, Medicinal. Ayerst, McKenna & Harrison (United States), Limited. 369,671; Aug. 1; Serial No. 416,306; published May 23, 1939.

Waterproofing and water-repelling agents. American Aniline Products, Inc. 369,565; Aug. 1; Serial No. 399,025; published Jan. 11, 1938.

Water purifying materials. International Filter Co. 369,810; Aug. 1; Serial No. 417,876; published May 23, 1939.

CLASS 11

Inks and greases and compounds for adjusting the physical properties of such inks, Printing and lithographic. Pope & Gray, Inc. 369,598; Aug. 1; Serial No. 413,797; published May 16, 1939.

CLASS 12

Carbon products. National Carbon Company. 369,662; Aug. 1; Serial No. 416,108; published May 16, 1939.

Fiber board, Saturated. Celotex Corporation. 369,564; Aug. 1; Serial No. 398,810; published May 16, 1939.

Insulating blankets of glass wool fibers. Union Asbestos & Rubber Company. 369,718; Aug. 1; Serial No. 417,038; published May 16, 1939.

Insulating blocks and half tubular members, Rigid. Union Asbestos & Rubber Company. 369,719; Aug. 1; Serial No. 417,039; published May 16, 1939.

Insulating material and suitable binder, Rigid. Union Asbestos & Rubber Company. 369,720; Aug. 1; Serial No. 417,040; published May 16, 1939.

Lumber. R. Z. Drake. 369,585; Aug. 1; Serial No. 410,584; published May 16, 1939.

Wall flashing, Thru. W. A. Fingles, Inc. 369,785; Aug. 1; Serial No. 417,568; published May 23, 1939.

CLASS 13

Pots, coffee pots, cocktail shakers, etc., Tea. Kensington, Incorporated. 369,556; Aug. 1; Serial No. 374,196; published May 23, 1939.

Racks, Roast. J. A. Lynch. 369,682; Aug. 1; Serial No. 416,571; published May 23, 1939.

CLASS 14

Steel. Forging and Casting Corporation. 369,801; Aug. 1; Serial No. 417,754; published May 23, 1939.

CLASS 15

Oils and paraffin-wax. Penn American Refining Co. 127,864; renewed Dec. 9, 1939.

Oils, Supplementary lubricating. National Graphite Co. Inc. 369,694; Aug. 1; Serial No. 416,771; published May 16, 1939.

CLASS 16

Floor-dressings. Frederick Disinfectant Co. 128,066; renewed Dec. 23, 1939.

Paint. Western Auto Supply Company. 369,790; Aug. 1; Serial No. 417,632; published May 23, 1939.

CLASS 17

Cigars. Amorita Cigar Co. 369,792; Aug. 1; Serial No. 417,636; published May 23, 1939.

CLASS 19

Holders to be mounted in instrument boards. Auto License Safe Company. 369,605; Aug. 11; Serial No. 411,674; published May 23, 1939.

Trucks for working under vehicles, Repairmen's. R. O. Hulbert. 369,857; Aug. 1.

Wheels, and rims for vehicle wheels, Vehicle. Rim and Tire Association, Inc. 369,668; Aug. 1; Serial No. 416,213; published May 23, 1939.

CLASS 21

Electrical insect exterminating screens and traps. National Electric Screen Corp. 369,640; Aug. 1; Serial No. 415,412; published May 16, 1939.

Facsimile apparatus to be used with radio receiving apparatus. Crosley Corporation. 369,634; Aug. 1; Serial No. 414,984; published May 23, 1939.

Fluorescent tubing. St. Charles Technical Laboratories, Inc. 369,667; Aug. 1; Serial No. 416,209; published May 23, 1939.

Generators, Electric current. Rolite. 369,776; Aug. 1; Serial No. 417,473; published May 23, 1939.

Lighting equipment. Black Knight Company. 369,582; Aug. 1; Serial No. 406,903; published May 23, 1939.

Sockets, switches, wire fuses, etc., Electrical. Folsom Company. 369,577; Aug. 1; Serial No. 404,846; published May 23, 1939.

Suction cleaners, Electrically operated. P. A. Geier Company. 369,779; Aug. 1; Serial No. 417,490; published May 23, 1939.

CLASS 22

Dolls. American Character Doll Co. Inc. 369,812; Aug. 1; Serial No. 417,901; published May 23, 1939.

Game, Board. Milton Bradley Company. 369,824; Aug. 1; Serial No. 418,237; published May 23, 1939.
Skates and skate outfits, Ice. Nestor Johnson Manufacturing Company. 369,822; Aug. 1; Serial No. 418,208; published May 23, 1939.

CLASS 23

Bearings, Roller. Roller Bearing Company of America. 369,666; Aug. 1; Serial No. 416,206; published May 23, 1939.
Car-replacers and wrecking-frogs, rail-saws, etc. Aldon Company. 128,214; renewed Dec. 23, 1939.
Clutch plates, Automobile. Chefford Master Manufacturing Co. Inc. 369,684; Aug. 1; Serial No. 416,599; published May 23, 1939.
Cutters or cutting machines, Hand operated. Alfa Machine Company. 369,574; Aug. 1; Serial No. 403,848; published May 23, 1939.
Drills, Twist. Latrobe Tool Company. 127,078; renewed Oct. 21, 1939.
Equipment, Oil field. American Iron & Machine Works Company. 369,673; Aug. 1; Serial No. 416,359; published May 23, 1939.
Knives, Pocket and table. Utica Cutlery Company. 369,650; Aug. 1; Serial No. 415,809; published May 23, 1939.
Lathes. O. R. Adams Mfg. Co. 126,970; renewed Oct. 14, 1939.
Mixers, Kitchen food. C. J. Simpson. 369,656; Aug. 1; Serial No. 415,928; published May 23, 1939.
Sheaves. American Zinc Company of Tennessee. 369,613; Aug. 1; Serial No. 412,749; published May 23, 1939.
Stirrer, Beverage. Mrs. M. Hartman. 369,657; Aug. 1; Serial No. 415,949; published May 23, 1939.
Tools and parts thereof. James R. Kearney Corporation. 369,580; Aug. 1; Serial No. 405,507; published May 23, 1939.
Tools, Mechanics'. Sears, Roebuck and Co. 369,614; Aug. 1; Serial No. 412,927; published May 23, 1939.
Tools, Metal boring machine. Eclipse Counterbore Company. 369,594; Aug. 1; Serial No. 413,577; published Apr. 25, 1939.
Water softeners, Mechanical. H. L. G. Company. 369,783; Aug. 1; Serial No. 417,538; published May 23, 1939.

CLASS 24

Laundry machinery. Gross Machinery Co. Inc. 369,599; Aug. 1; Serial No. 413,866; published May 23, 1939.

CLASS 26

Cameras. Universal Camera Corporation. 369,618; Aug. 1; Serial No. 414,169; published May 23, 1939.
Cameras, Photographic. I. G. Farbenindustrie Aktiengesellschaft. 369,646; Aug. 1; Serial No. 415,709; published May 23, 1939.
Easels, photographic printing boxes, photographic enlargers, etc. C. Kalish. 369,773; Aug. 1; Serial No. 417,461; published May 23, 1939.
Gauges, indicators, and measuring devices, Valve and damper position. Tefft-Jackson, Incorporated. 369,638; Aug. 1; Serial No. 415,091; published May 23, 1939.
Instrument for indicating the condition of storage batteries. Instrument Specialties Company. 369,597; Aug. 1; Serial No. 413,787; published May 23, 1939.
Lenses, Photographic. Universal Camera Corporation. 369,619; Aug. 1; Serial No. 414,170; published May 23, 1939.

CLASS 27

Watches. Bulova Watch Company. 369,777–8; Aug. 1; Serial Nos. 417,483–4; published May 23, 1939.
Watch movements. Eta S. A. Fabrique d'Ebauches. 369,623; Aug. 1; Serial No. 414,438; published Feb. 28, 1939.
Watch movements. Fabrique d'Horlogerie de Fontainemelon. 369,624; Aug. 1; Serial No. 414,440; published Feb. 28, 1939.
Watch movements. A. Schild S. A. 369,626; Aug. 1; Serial No. 414,471; published Apr. 18, 1939.

CLASS 28

Bracelets and straps, neck chains, etc., Watch. Gemex Company. 369,627; Aug. 1; Serial No. 414,492; published May 16, 1939.
Flatware, hollow ware, and tableware, Sterling silver and silver. National Silver Company. 369,795–6; Aug. 1; Serial Nos. 417,652–3; published May 23, 1939.

CLASS 30

Tableware, China. Stetson China Company. 369,578; Aug. 1; Serial No. 404,922; published May 23, 1939.

CLASS 31

Coil that refrigerates and purifies the air in refrigerators. Betz Corporation. 369,856; Aug. 1.

CLASS 32

Blinds, roller blinds, woodweb shades, etc., Venetian. Western Venetian Blind Co. 369,791; Aug. 1; Serial No. 417,634; published May 23, 1939.
Desks or tables. R. J. Brandt. 369,745; Aug. 1; Serial No. 417,255; published May 23, 1939.
Furniture. Baker Furniture, Inc. 369,826; Aug. 1; Serial No. 418,286; published May 23, 1939.
Furniture protectors, furniture covers, slip covers, etc. Transpar Corporation. 369,781; Aug. 1; Serial No. 417,513; published May 23, 1939.
Tables, chairs, benches, etc. G. L. Fisher. 369,827; Aug. 1; Serial No. 418,298; published May 23, 1939.

CLASS 34

Cooking apparatus. Tappan Stove Company. 369,706; Aug. 1; Serial No. 416,879; published May 23, 1939.
Dust separators, Centrifugal. American Air Filter Company. 369,644; Aug. 1; Serial No. 415,620; published May 23, 1939.
Furnaces and parts thereof, Building heating. Aireozone Corporation. 369,697; Aug. 1; Serial No. 416,790; published May 23, 1939.
Humidifiers, Automatic. Maid-O'-Mist, Inc. 369,557; Aug. 1; Serial No. 376,292; published May 23, 1939.
Kilns, Dry. Moore Dry Kiln Company of Oregon. 369,584; Aug. 1; Serial No. 408,468; published May 23, 1939.
Registers and grilles. Auer Register Company. 369,677–9; Aug. 1; Serial Nos. 416,534–6; published May 23, 1939.
Steam-heating apparatus. C. A. Dunham Company. 127,926; renewed Dec. 16, 1939.

CLASS 35

Belting, Leather. Edward R. Ladew Company. 128,092–3; renewed Dec. 23, 1939.
Packing, Metallic. International Metallic Packing Corporation. 369,823; Aug. 1; Serial No. 418,224; published May 23, 1939.
Tires, Rubber. Fisk Rubber Company. 128,063; renewed Dec. 23, 1939.

CLASS 36

Bells for musical instruments, Metal. C. G. Conn Ltd. 369,770; Aug. 1; Serial No. 417,444; published May 23, 1939.
Keys for musical instruments, Metal. C. G. Conn Ltd. 369,771; Aug. 1; Serial No. 417,445; published May 23, 1939.
Organs, Pipe. Wicks Organ Company. 369,675; Aug. 1; Serial No. 416,494; published Apr. 25, 1939.
Piano plates. American Piano Plate Company. 369,670; Aug. 1; Serial No. 416,305; published May 23, 1939.

CLASS 37

Paper box laces, doilies, napkins, etc. American Lace Paper Company. 369,735; Aug. 1; Serial No. 417,197; published May 23, 1939.
Paper staples and fasteners, and hand stapling machines. Champion Fastener Corp. 369,566; Aug. 1; Serial No. 399,556; published May 31, 1938.
Wrappers. Dobeckmun Company. 369,733; Aug. 1; Serial No. 417,165; published May 23, 1939.

CLASS 38

Books. Caxton Printers, Ltd. 369,691; Aug. 1; Serial No. 416,720; published May 16, 1939.
Cartoons, Series of. D. T. Fisher, Jr. 369,715; Aug. 1; Serial No. 417,008; published May 16, 1939.
Music and books of music, Sheet. Jerry Vogel Music Co. 369,765; Aug. 1; Serial No. 417,421; published May 16, 1939.
Newspaper features, Daily. D. B. Hiatt. 369,642; Aug. 1, 1939; Serial No. 415,477; published May 16, 1939.
Newspaper features, Sindicated. R. Pitcairn. 369,688; Aug. 1; Serial No. 416,699; published May 16, 1939.
Newspaper section or column and for heading of a series of cartoons. C. Harris. 369,761; Aug. 1; Serial No. 417,365; published May 16, 1939.
Periodical. Thomas Publishing Company. 369,707; Aug. 1; Serial No. 416,880; published May 16, 1939.
Publication. American Institute of Mining and Metallurgical Engineers, Inc. 369,571; Aug. 1; Serial No. 403,352; published May 16, 1939.
Publication. Glidden Company. 369,617; Aug. 1; Serial No. 414,104; published May 16, 1939.
Recipe cards, Printed. General Mills, Inc. 369,600; Aug. 1; Serial No. 413,939; published May 16, 1939.
Section of a periodical publication. Mock, Judson, Voehringer Co. of New York, Inc. 369,639; Aug. 1; Serial No. 415,135; published May 16, 1939.

CLASS 39

Apparel, Women's and Misses' wearing. Mutual Rosenbloom Corporation. 369,610; Aug. 1; Serial No. 412,522; published May 9, 1939.
Apparel, Women's, misses', and children's outer wearing. C. Crawford Hollidge, Ltd. 369,567; Aug. 1; Serial No. 399,711; published May 9, 1939.
Apparel, Women's wearing. J. F. Dittman Company. 369,601; Aug. 1; Serial No. 413,981; published May 16, 1939.
Boleros, jackets, vests, and blouses. M. Wartsky. 369,742; Aug. 1; Serial No. 417,243; published May 23, 1939.
Boots and shoes. United Workingmen's Boot & Shoe Mfg. Co. 127,254; renewed Oct. 28, 1939.

Brassières, corsets, slips, etc. Edith Lances Brassieres. 369,842; Aug. 1.
Brassières, girdles, corselets, etc. Even-Pul Foundations. 369,833; Aug. 1.
Clothes. M. E. Greenfield Co. 128,075; renewed Dec. 23, 1939.
Coats and suits, skirts, blouses, etc. Joe & Ted Funk. 369,647; Aug. 1; Serial No. 415,771; published May 16, 1939.
Coats and suits, Women's and misses'. Lou Tishman Co. Inc. 369,743; Aug. 1; Serial No. 417,240; published May 16, 1939.
Coats, Boys'. Little Tommy Tucker Coats, Inc. 369,665; Aug. 1; Serial No. 416,195; published May 23, 1939.
Covering for wear over shoes and other footwear, Protective. R. C. Herrick. 369,849; Aug. 1.
Dresses. H. Goodman. 369,760; Aug. 1; Serial No. 417,364; published May 23, 1939.
Dresses. Infanticipating Dress Co. 369,631; Aug. 1; Serial No. 414,738; published May 9, 1939.
Dresses. H. Rand. 369,572; Aug. 1; Serial No. 403,521; published May 9, 1939.
Dresses. Ben Rubin, Inc. 369,689; Aug. 1; Serial No. 416,701; published May 9, 1939.
Dresses and suit, Women's. Max Levine & Company. 369,734; Aug. 1; Serial No. 417,175; published May 16, 1939.
Dresses, coats, jackets, etc. Star-Maid Dresses, Inc. 369,836; Aug. 1.
Dresses, frocks, slacks, etc., Ladies'. Frances Gee Garment Co. 369,593; Aug. 1; Serial No. 413,549; published May 16, 1939.
Dresses, pajamas, slacks, etc. K. Gudnason. 369,596; Aug. 1; Serial No. 413,781; published May 9, 1939.
Frocks and dresses. Jos. S. Cohen & Sons Co. 369,630; Aug. 1; Serial No. 414,726; published May 9, 1939.
Gloves and mittens, bathing suits and trunks, etc. Harry A. Simon & Bro. 369,595; Aug. 1; Serial No. 413,690; published May 9, 1939.
Gloves, Men's. Sears, Roebuck and Co. 369,844; Aug. 1.
Haberdashery, Men's. Moe Levy & Son, Inc. 369,832; Aug. 1.
Hat bodies, Felt and straw. Henry Pollak, Inc. 369,854; Aug. 1.
Hats bodies. Mohn Brothers Company. 369,853; Aug. 1.
Hats for men. Bonar-Phelps Co. 369,834; Aug. 1.
Heels and soles. Goodyear Tire & Rubber Company. 127,406; renewed Nov. 11, 1939.
Hosiery. American Sales Development Co. 369,676; Aug. 1; Serial No. 416,533; published May 23, 1939.
Hosiery. Celanese Corporation of America. 369,769; Aug. 1; Serial No. 417,441; published May 23, 1939.
Hosiery. Huffman Full Fashioned Mills, Inc. 369,739; Aug. 1; Serial No. 417,221; published May 16, 1939.
Hosiery. Julius Kayser & Co. 369,740; Aug. 1; Serial No. 417,222; published May 16, 1939.
Hosiery. H. G. Myers. 369,616; Aug. 1; Serial No. 414,077; published May 9, 1939.
Hosiery. Runnymede Mills, Inc. 369,693; Aug. 1; Serial No. 416,748; published May 9, 1939.
Hosiery. Shannon Hosiery Mills, Inc. 369,704; Aug. 1; Serial No. 416,875; published May 9, 1939.
Hosiery, Ladies' full-fashioned silk. D. A. Harrison. 369,852; Aug. 1.
Mufflers and scarfs. Trabulsi Textile Co. Inc. 369,839; Aug. 1.
Neckties. H. C. Cohn & Co. 369,847; Aug. 1.
Nightgowns, slips, pajamas, etc. Sol L. Rosenblatt & Co. 369,663; Aug. 1; Serial No. 416,160; published May 9, 1939.
Overcoats, topcoats, and suits. Eagle Clothes. 369,612; Aug. 1; Serial No. 412,700; published May 16, 1939.
Shirts. Glendale Shirt Co. Inc. 128,110; renewed Dec. 23, 1939.
Shirts. Seaboard Manufacturing Company. 369,660; Aug. 1; Serial No. 416,086; published May 23, 1939.
Shirts, neckties, socks, etc. H. P. Wasson & Company. 369,841; Aug. 1.
Shirts, pants, and jackets. Oberman & Company. 369,559; Aug. 1; Serial No. 388,366; published May 16, 1939.
Shirts, slacks, and trousers, Sport. Baltimore Trouser Company. 369,661; Aug. 1; Serial No. 416,090; published May 9, 1939.
Shoes. O'Donnell Shoe Company. 369,840; Aug. 1.
Shoes and slippers. A. S. Beck Shoe Corporation. 369,837; Aug. 1.
Sports wear for women. M. Sobelman. 369,643; Aug. 1; Serial No. 415,535; published May 9, 1939.
Suits and overcoats. Keller, Heumann & Thompson Company. 369,747; Aug. 1; Serial No. 417,283; published May 23, 1939.
Suits, Children's play. Reliance Manufacturing Company. 369,570; Aug. 1, 1939; Serial No. 401,509; published May 16, 1939.
Suits, Men's. Haspel Bros., Inc. 369,611; Aug. 1; Serial No. 412,640; published May 23, 1939.
Suits, slacks, shirts, etc., Women's and misses'. Donnelly Garment Sales Company. 369,615; Aug. 1; Serial No. 412,961; published May 9, 1939.
Suits, topcoats, overcoats, etc. L. Greif & Bro., Inc. 369,591; Aug. 1; Serial No. 413,012; published Mar. 7, 1939.
Sweaters, Knitted. Irwill Knitwear Corp. 369,674; Aug. 1; Serial No. 416,422; published May 16, 1939.
Sweaters, Ladies' and misses'. Joseph Guttman & Bros., Inc. 369,710; Aug. 1; Serial No. 416,954; published May 16, 1939.
Topcoats and raincoats. Neptune Garment Company. 369,576; Aug. 1; Serial No. 404,580; published May 2, 1939.
Undergarments, Women's. Warner Brothers Company. 369,850; Aug. 1.
Underwear. Vanity Fair Silk Mills. 369,696; Aug. 1; Serial No. 416,781; published May 23, 1939.
Underwear, Ladies' and children's. Belle Knitting Corp. 369,722; Aug. 1; Serial No. 417,077; published May 9, 1939.
Underwear, pajamas and nightgowns. Belle Knitting Corp. 369,721; Aug. 1; Serial No. 417,076; published May 16, 1939.

CLASS 42

Blankets. Pepperell Manufacturing Company. 369,775; Aug. 1; Serial No. 417,471; published May 23, 1939.
Cloth, Window shade. Columbia Mills, Inc. 369,723; Aug. 1; Serial No. 417,081; published May 9, 1939.
Cotton goods. Ely & Walker Dry Goods Company. 128,056; renewed Dec. 23, 1939.
Curtains, Lace. Wilkes-Barre Lace Manufacturing Company. 369,800; Aug. 1; Serial No. 417,728; published May 23, 1939.
Elastic webbing. United Elastic Corporation. 369,603; Aug. 1; Serial No. 411,315; published May 23, 1939.
Fabric. Lesher, Whitman & Co. 128,105; renewed Dec. 23, 1939.
Fabrics. Kendall Company. 369,606; Aug. 1; Serial No. 411,872; published May 23, 1939.
Piece goods. Bemis Bro. Bag Company. 369,788; Aug. 1; Serial No. 417,605; published May 23, 1939.
Piece goods. Hockmeyer Bros., Inc. 369,772; Aug. 1; Serial No. 417,459; published May 23, 1939.
Piece goods. E. Sunderland. 369,705; Aug. 1; Serial No. 416,878; published May 23, 1939.
Piece goods, Elastic textile. La Resista Corset Company. 369,586; Aug. 1; Serial No. 410,590; published May 23, 1939.
Rayon and silk piece goods. J. C. Penney Company. 369,813; Aug. 1; Serial No. 417,933; published May 23, 1939.
Rugs, Floor. Waite Grass Carpet Company. 128,196–7; renewed Dec. 23, 1939.
Sheets and pillow cases. Loveman, Joseph & Loeb. 369,625; Aug. 1; Serial No. 414,454; published May 23, 1939.
Silk piece goods. Arthur Beir & Co. 128,003; renewed Dec. 23, 1939.
Woolen piece goods. Forstmann Woolen Co. 369,802; Aug. 1; Serial No. 417,755; published May 23, 1939.

CLASS 43

Cotton, Crochet and knitting. James Lees & Sons Company. 369,784; Aug. 1; Serial No. 417,540; published May 23, 1939.
Thread. American Thread Company. 369,766–7; Aug. 1; Serial Nos. 417,430–1; published May 23, 1939.
Yarns. Celanese Corporation of America. 369,768; Aug. 1; Serial No. 417,440; published May 23, 1939.

CLASS 44

Dental materials. De Trey Frères Société Anonyme. 369,654; Aug. 1; Serial No. 415,868; published May 23, 1939.
Diagnostic tuning devices. College of Electronic Medicine, Blanche & Jeanne R. Abrams Memorial Foundation. 369,590; Aug. 1; Serial No. 413,001; published May 23, 1939.
Finger nail stencils. G. Smaldone. 369,819; Aug. 1; Serial No. 418,069; published May 23, 1939.
Scissors, cuticle and nail nippers, fingernail clips, etc., Cuticle and nail. A. Henkel & Son, Inc. 369,622; Aug. 1; Serial No. 414,350; published May 23, 1939.
Vaporizer and humidifier, Electrical therapeutic. E. A. Reid. 369,563; Aug. 1; Serial No. 398,019; published May 23, 1939.
X-ray generators. Peerless Laboratories, Inc. 369,648; Aug. 1; Serial No. 415,792; published May 23, 1939.

CLASS 46

Baking soda. Church & Dwight Co. Inc. 369,753–4; Aug. 1; Serial Nos. 417,325–6; published May 23, 1939.
Candy. Euclid Candy Co. of Illinois, Inc. 369,620; Aug. 1; Serial No. 414,173; published May 23, 1939.
Candies, Chocolate coated. C. E. Voogt Candy Co. 369,687; Aug. 1; Serial No. 416,665; published May 23, 1939.
Canned coffee, corn, and peaches. American Renaissance Association, Inc. 369,569; Aug. 1; Serial No. 400,940; published May 23, 1939.
Canned fruits and vegetables. Connell Bros. Company Limited. 369,838; Aug. 1.
Canned vegetables. Pickaway Canning Company. 369,703; Aug. 1; Serial No. 416,869; published May 23, 1939.
Canned vegetables. M. Starkstein. 369,685; Aug. 1; Serial No. 416,660; published May 23, 1939.
Chocolate. D. Ghirardelli Co. 127,045; renewed Oct. 21, 1939.
Coffee. Albert Ehlers, Inc. 369,655; Aug. 1; Serial No. 415,887; published May 23, 1939.

Confection, Frozen. Pappy's Ice Cream Biscuit Co. 369,702; Aug. 1; Serial No. 416,867; published May 23, 1939.
Cups in the nature of ice cream cones, Edible baked. Crispo Cake Cone Co. 369,843; Aug. 1.
Dessert preparations. Capitol Foods, Inc. 369,672; Aug. 1; Serial No. 416,311; published May 23, 1939.
Desserts, Gelatine. Jolly Joan. 369,602; Aug. 1; Serial No. 411,055; published May 23, 1939.
Doughnuts. Smith's Melo Cream Donuts. 369,649; Aug. 1; Serial No. 415,800; published May 23, 1939.
Eggs. J. B. McKenzie. 369,562; Aug. 1; Serial No. 396,962; published May 23, 1939.
Feed, Hog, chicken, and dairy. J. M. Hudson. 369,848; Aug. 1.
Flour, Wheat. Colorado Milling & Elevator Co. 369,724; Aug. 1; Serial No. 417,083; published May 23, 1939.
Food, Dog. Nestra Packing Company. 369,763; Aug. 1; Serial No. 417,409; published May 23, 1939.
Foods for pets, Vitamine containing. Canine Vita-Candy Company. 369,561; Aug. 1; Serial No. 396,117; published May 23, 1939.
Fruit, and vegetables, Fresh citrus and deciduous. Bay City Produce Company. 369,835; Aug. 1.
Fruits and vegetables, Fresh. William F. Kenny Company. 369,711; Aug. 1; Serial No. 416,958; published May 23, 1939.
Fruits, berries, and vegetables, Fresh frozen. Frostkraft Packing Corporation. 369,725; Aug. 1; Serial No. 417,087; published May 23, 1939.
Fruits, Fresh. H. Frankenthal. 369,755; Aug. 1; Serial No. 417,334; published May 23, 1939.
Mayonnaise, Russian dressing, sandwich spread, etc. Birdsall & Wilcox. 369,713; Aug. 1; Serial No. 416,993; published May 23, 1939.
Milk, Evaporated. Wesco Foods Company. 369,575; Aug. 1; Serial No. 404,098; published May 16, 1939.
Milk, Homogenized. G. P. Gundlach. 369,592; Aug. 1; Serial No. 413,307; published May 16, 1939.
Molasses. Fuji Trading Co. 369,738; Aug. 1; Serial No. 417,211; published May 23, 1939.
Peaches, pimientos, and turnip greens, Fresh. Bankston-Edwards Canning Company. 269,658; Aug. 1; Serial No. 415,973; published May 23, 1939.
Peanuts salted in the shell. Salted in the Shell, Inc. 369,726; Aug. 1; Serial No. 417,101; published May 23, 1939.
Popcorn, Salted and buttered. Tasty-Krisp Products, Inc. 369,846; Aug. 1.
Vegetables, Fresh. S. M. Jones. 369,855; Aug. 1.
Vegetables, Fresh. C. A. Ripley. 369,851; Aug. 1.
Vegetables, Fresh. Santa Cruz Artichoke & Sprout Growers. 369,632–3; Aug. 1; Serial Nos. 414,836–7; published May 23, 1939.

CLASS 47

Wine. H. Sichel & Sons, Limited. 369,764; Aug. 1; Serial No. 417, 418; published May 23, 1939.

CLASS 48

Beer. Arizona Brewing Company. 369,732; Aug. 1; Serial No. 417,157; published May 23, 1939.

CLASS 49

Whiskey. George Benz Sons, Inc. 369,809; Aug. 1; Serial No. 417,861; published may 23, 1939.
Whiskies, brandies, gins, etc. Palmer House Company. 369,828; Aug. 1; Serial No. 418,309; published May 23, 1939.
Whisky, Scotch. Distillers Agency Limited. 369,637; Aug. 1; Serial No. 415,076; published May 23, 1939.

CLASS 50

Awnings. W. E. Metzger. 369,845; Aug. 1.
Covers of oil-silk, oil-skin, and flexible fabrics. Columbia Products Corporation. 369,794; Aug. 1; Serial No. 417,641; published May 23, 1939.
Fabric treated with non-slipping material. Behr-Manning Corporation. 369,608; Aug. 1; Serial No. 412,490; published May 23, 1939.
Fly-catchers and fly-ribbons. Naamlooze Vennootschap Maatschappij voor Wasverwerking. 369,762; Aug. 1; Serial No. 417,408; published May 23, 1939.
Miniature boxing gloves intended for use as a talisman, charm or trophy. National Sales Company. 369,683; Aug. 1; Serial No. 416,578; published May 23, 1939.

LIST OF LABELS

Altes Lager. For Beer. Tivoli Brewing Company. 53,336; Aug. 1.
Atlanco Ocean Fish Fillets. For Fillets. Atlantic Coast Fisheries Corporation of New York. 53,315; Aug. 1.
Beech-Nut Sugar Cookies. For Sugar Cookies. Beech-Nut Packing Company. 53,318; Aug. 1.
Bialy Orzel. For Polish Type Whiskey. B. Cribari & Sons. 53,321; Aug. 1.
Bohemian. For Cheese. W. M. Cahoone. 53,320; Aug. 1.
Bor-A-Gated. For Cotton Insulation. Bawden Brothers Inc. 53,317; Aug. 1.
Delicious Ball Gum. For Ball Gum Vending Machines. R. Mentzer. 53,327; Aug. 1.
Dr. West's Water-Proofed. For Tooth Brushes. Weco Products Company. 53,338; Aug. 1.
G-A-O-W Lotion. For a Lotion for the Relief of Itching. P. H. Geoghegan. 53,323; Aug. 1.
Goetze's. For Peppermint Gum. Baltimore Chewing Gum Co. 53,316; Aug. 1.
Gold Coast. For Coffee. Swanson Brothers, Incorporated. 53,334; Aug. 1.
Hills Bros. Coffee—Red Can Brand. For Coffee. Hills Bros. Coffee, Inc. 53,324; Aug. 1.
Let's Cook! For a Game. L. Rubin. 53,332; Aug. 1.
Liane Quality-Tested Shampoo. For Shampoo. Liane Incorporated. 53,326; Aug. 1.
Mead's Pectin-Agar in Dextri-Maltose. For a Product Consisting of Pectin, Agar, Maltose, Dextrins, and Sodium Chloride. Mead Johnson & Company. 53,325; Aug. 1.
Mono Panda Kup. For Ice Cream. Mono Service Co. 53,328; Aug. 1.
Parnox. For a Weed Exterminator. C. F. Parrott. 53,330; Aug. 1.
Pinky. For a Cleaner. E. L. Weigold. 53,339; Aug. 1.
Potato Chips. For Potato Chips. National Potato Chip Institute. 53,329; Aug. 1.
Selmer Magni-Tone Ligature. For Ligatures. H. & A. Selmer, Inc. 53,333; Aug. 1.
Smart Braces. For Braces. Irving Brandt & Co. 53,319; Aug. 1.
Stanley Cup Ice Hockey Game. For a Game. L. Rubin. 53,331; Aug. 1.
Stero-Vac. For Canned Whole Grain Bantam Corn. Crown Can Company. 53,322; Aug. 1.
Wampole's Preparation. For a Tonic and Stimulant. Henry K. Wampole & Co. 53,337; Aug. 1.
Zephyr. For Coffee. Swanson Brothers, Incorporated. 53,335; Aug. 1.

LIST OF PRINTS

Blue Can Brand Hills Bros. Coffee—Adform 1013. For Coffee. Hills Bros. Coffee, Inc. 17,522; Aug. 1.
Feeds and Nutri-Dients. For Calf Meal, Calf Flakes, Concentrates for Poultry, Swine and Dairy Use, Norwegian Cod Liver Oil, Concentrated Cod Liver Oil, Meat Scraps, Meat Scraps and Fish Meal, Digester Tankage, Mineralized Digester Tankage and Nutritive Minerals. C. O. Ryde. 17,525; Aug. 1.
Gabby Grabs Himself a Pennant in the 9th. For Cereal Food. General Mills, Inc. 17,521; Aug. 1.
Say-It. For Boxes. United Paperboard Company. 17,526; Aug. 1.
Try Milky Way Frozen. For Candy. Mars, Incorporated. 17,523; Aug. 1.
You Pay a License But . . . For Beer. Pabst Sales Company. 17,524; Aug. 1.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1ST DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Beals, Albert E., Norwich, N. Y. Method and apparatus for automatically controlling the operation of air conditioning systems. Re. 21,116; Aug. 1.
Blaw-Knox Company. (See McCrery, Harold E., assignor.)
Bowers, Frank E., Drexel Hill, assignor to Doyle & Bowers, Philadelphia, Pa. Ophthalmic mounting. Re. 21,167; Aug. 1.
Bucyrus-Erie Company. (See Paulsen, Thomas R., assignor.)
Coutor, Charles, Premery, assignor to Société Etablissements Lambiotte Freres, Premery (Nievre Department), France. Process and apparatus for the continuous extraction or treatment of liquids. Re. 21,168; Aug. 1.
Doyle & Bowers. (See Bowers, Frank E., assignor.)
McCrery, Harold E., Dayton, Ohio, assignor to Blaw-Knox Company, Blawnox, Pa. Weighing apparatus. Re. 21,169; Aug. 1.
Paulsen, Thomas R., assignor to Bucyrus-Erie Company, South Milwaukee, Wis. Wheeled scraper. Re. 21,170; Aug. 1.
Société Etablissements Lambiotte Freres. (See Coutor, Charles, assignor.)

LIST OF DESIGN PATENTEES

American Car and Foundry Motors Company. (See Ramstrum, Eric, assignor.)
American Tissue Mills. (See Sinclair, Homer M., assignor.)
Andersen, Henry A., Swampscott, Mass., assignor to General Electric Company. Electrical recording instrument or similar article. 115,973; Aug. 1.
Arden, Thomas R., Freeport, N. Y. Motor for toy airplanes. 115,974; Aug. 1.
Bailey, Perkins H., New York, N. Y., assignor to Talcon, Inc., Meadville, Pa. Jacket. 115,983; Aug. 1.
Bammon, Sylvia H., assignor to Girl Scouts (Incorporated), New York, N. Y. Scarf. 115,975; Aug. 1.
Banick, Stevan, Astoria, Long Island, N. Y. Timepiece face. 115,901; Aug. 1.
Barnes, Glenn A., assignor to Universal Dental Company, Philadelphia, Pa. Tooth shade guide unit. 115,948; Aug. 1.
Barton, Joseph T., Chicago, Ill. Tree base. 115,902; Aug. 1.
Berger, Samuel I., Newark, N. J. Toy. 115,903; Aug. 1.
Bersted Manufacturing Company. (See Hook, Arley U., assignor.)
Bixer, Edmond P., New York, N. Y. Textile fabric or similar article. 115,976; Aug. 1.
Bourne, Richard H., El Reno, Okla. Combined dial and hand for a clock or similar article. 115,904; Aug. 1.
Brady, Medis C., Detroit, Mich. Face plate for a signal casing. 115,949; Aug. 1.
Bruce, Leo L., Framingham, Mass., assignor to Warren Telechron Company. Clock case. 115,905; Aug. 1.
Carpenter, Edward W., Fairfield, Conn. Scissors. 115,906; Aug. 1.
Collins, Ashton B., Birmingham, Ala. Service bill blank. 115,977; Aug. 1.
Cook, Carlton F. (See Gordon, D. J., and Cook.)
Cooper, David, Brooklyn, N. Y. Pin or similar article. 115,907; Aug. 1.
Cooper, David, Brooklyn, N. Y. Pin or similar article. 115,950; Aug. 1.
Cooper, David, Brooklyn, N. Y. Pin or similar article. 115,908; Aug. 1.
Cooper, David, Brooklyn, N. Y. Clip or similar article. 115,909; Aug. 1.
Cooper, David, Brooklyn, N. Y. Clip or similar article. 115,910; Aug. 1.
Cooper, David, Brooklyn, N. Y. Clip or similar article. 115,911; Aug. 1.
Cooper, David, Brooklyn, N. Y. Clip or similar article. 115,912; Aug. 1.
Cooperative Crafts, Inc., et al. (See Crandall, Donald O., assignor.)
Crandall, Donald O., assignor of one-half to Cooperative Crafts, Inc., and one-half to E. N. Poehler, Minneapolis, Minn., doing business under name of The Guild. Table decoration or article of similar nature. 115,913; Aug. 1.
Crandall, Donald O., assignor of one-half to E. N. Poehler, Minneapolis, Minn., doing business under name of The Guild. Statuette. 115,914; Aug. 1.
Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 115,951; Aug. 1.
Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 115,952; Aug. 1.
Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 115,953; Aug. 1.
Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 115,954; Aug. 1.
Crowley, Daniel J., Grosse Pointe, Mich. Combined lamp and radio receiving set. 115,955; Aug. 1.
Crown Cork & Seal Company. (See Dennis, Stanley W., assignor.)
Daniels, Charles E., Los Angeles, Calif. Pants hanger. 115,915; Aug. 1.
Dennis, Stanley W., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Bottle. 115,956; Aug. 1.
Dillon, David, New York, N. Y. Console bar cellarette. 115,957; Aug. 1.
Donato, Giuseppe, Philadelphia, Pa. Combined check marker and fountain pen or similar article. 115,916; Aug. 1.
Draddy, Vincent D., New York, N. Y. Dress. 115,989; Aug. 1.
Duncan & Miller Glass Company. (See May, Robert A., assignor.)
Eckstein, Louis V., assignor to Steam-Electric Corporation, St. Louis, Mo. Electric steaming iron. 115,958; Aug. 1.
Emmerich, Theresa, New York, N. Y. Textile fabric. 115,978; Aug. 1.
Feintuck, Rose, New York, N. Y. Dress. 115,990; Aug. 1.
Fewster, James F., Trenton, N. J. Garment hanger. 115,917; Aug. 1.
Fewster, James F., Trenton, N. J. Garment hanger. 115,918; Aug. 1.
Fewster, James F., Trenton, N. J. Garment hanger. 115,919; Aug. 1.
Fewster, James F., Trenton, N. J. Garment hanger. 115,920; Aug. 1.
Forstmann, Curt E., Montclair, N. J. Textile fabric. 115,984; Aug. 1.
Forstmann, Curt E., Montclair, N. J. Textile fabric. 115,991; Aug. 1.
Forstmann, Curt E., Montclair, N. J. Textile fabric. 115,992; Aug. 1.
Fritz, Theresa M., New York, N. Y. Dress. 115,993; Aug. 1.
Fritz, Theresa M., New York, N. Y. Dress. 115,994; Aug. 1.
Fritz, Theresa M., New York, N. Y. Dress. 115,995; Aug. 1.
Frumkin, Max, New York, N. Y. Dress. 115,996; Aug. 1.
Gaige, Richard T., New York, N. Y., assignor to Volupte, Inc., Elizabeth, N. J. Vanity case or similar article. 115,959; Aug. 1.
Gaige, Richard T., New York, N. Y., assignor to Volupte, Inc., Elizabeth, N. J. Vanity case or similar article. 115,960; Aug. 1.
Gaige, Richard T., New York, N. Y., assignor to Volupte, Inc., Elizabeth, N. J. Vanity case or similar article. 115,961; Aug. 1.
Gaige, Richard T., New York, N. Y., assignor to Volupte, Inc., Elizabeth, N. J. Vanity case or similar article. 115,962; Aug. 1.
Galowitz, Morris, New York, N. Y. Dress. 115,997; Aug. 1.
Gemmill, Claudia M., York, Pa. Cigarette holder or similar article. 115,921; Aug. 1.
General Electric Company. (See Andersen, Henry A., assignor.)
Girl Scouts (Incorporated). (See Bammon, Sylvia H., assignor.)
Gledhill, Edward C., assignor to The Gledhill Road Machinery Company, Galion, Ohio. Building. 115,963; Aug. 1.
Gledhill Road Machinery Company, The. (See Gledhill, Edward C., assignor.)
Glenwood Range Company. (See Wiley, Clarence F., assignor.)
Goldman, Harry, New York, N. Y. Dress. 115,998; Aug. 1.
Gordon, Dale J., and C. F. Cook, Loveland, Colo. Display stand for hosiery or the like. 115,922; Aug. 1.

Grosvenor, C. A., Shoe Co. (See Grosvenor, Charles A., assignor.)
Grosvenor, Charles A., assignor to C. A. Grosvenor Shoe Co., Worcester, Mass. Slipper or similar article. 115,923; Aug. 1.
Guild, The. (See Crandall, Donald O.)
Hillenbach, William, Ardsley, N. Y. Combined surface drainer and stopper. 115,924; Aug. 1.
Hollengreen, Milburn A., and C. R. Mentzer, assignors to Landis Tool Company, Waynesboro, Pa. Headstock for machine tools. 115,964; Aug. 1.
Holmes, Ralph H., Hartington, Nebr. Combined salt and pepper shaker or the like. 115,925; Aug. 1.
Hook, Arley U., assignor to Bersted Manufacturing Company, Fostoria, Ohio. Beverage mixer receptacle. 115,965; Aug. 1.
Hopkins, Horner H., Des Moines, Iowa. Knife holder. 115,926; Aug. 1.
Jung, Oscar H., Milwaukee, Wis. Oil lubricator. 115,966; Aug. 1.
Kaplan, David, New York, N. Y. Coat. 115,985; Aug. 1.
Kay, Ralph, New York, N. Y. Slide fastener closure. 115,927; Aug. 1.
Kircher, Ralph N., assignor to West Bend Aluminum Company, West Bend, Wis. Tea kettle. 115,928; Aug. 1.
Krisman, Harry E., University City, Mo. Display counter. 115,929; Aug. 1.
Kronstadt, Max, New York, N. Y. Ring. 115,930; Aug. 1.
Kronstadt, Max, New York, N. Y. Ring. 115,931; Aug. 1.
Landis Tool Company. (See Hollengreen, M. A., and Mentzer, assignors.)
Laroeque, Cyril, Willimansette, Mass. Clippers. 115,932; Aug. 1.
Lester Piano Company. (See Manfré, Philip R., assignor.)
Lubin, Henry G. (See Vivaudou, J. E., and Lubin.)
Maisch, Jacques E., New York, N. Y. Sunglasses. 115,933; Aug. 1.
Manfré, Philip R., Philadelphia, Pa., assignor to Lester Piano Company. Piano. 115,934; Aug. 1.
May, Robert A., assignor to Duncan & Miller Glass Company, Washington, Pa. Dish or similar article. 115,935; Aug. 1.
Mentzer, Charles R. (See Hollengreen, M. A., and Mentzer.)
Müller-Munk, Peter, Pittsburgh, Pa., assignor to Pro-phylac-tic Brush Company, Northampton, Mass. Hair brush. 115,967; Aug. 1.
Munson, Ralph O., assignor to Standard Oil Company, Chicago, Ill. Service station building or the like. 115,936; Aug. 1.
Munson, Ralph O., assignor to Standard Oil Company, Chicago, Ill. Service station building or the like. 115,937; Aug. 1.
Munson, Ralph O., assignor to Standard Oil Company, Chicago, Ill. Service station building or the like. 115,938; Aug. 1.
O'Gorman, Mae, and M. E., Los Angeles, Calif. Undergarment. 115,986; Aug. 1.
O'Gorman, Maud E. (See O'Gorman, Mae and M. E.)
Peterson, Ivan V., Reedley, Calif. Clock or similar article. 115,939; Aug. 1.
Poehler, Eleanor N. (See Crandall, Donald O., assignor.)
Pollack, George J., New York, N. Y. Dress. 115,999; Aug. 1.
Poux, Noel J., assignor to Talon, Inc., Meadville, Pa. Pull tab for slide fasteners. 115,940; Aug. 1.
Pro-phy-lac-tic Brush Company. (See Müller-Munk, Peter, assignor.)
Przywara, Bernard W., Flint, Mich. Radio cabinet or the like. 115,979; Aug. 1.
Ramstrum, Eric, Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y. Highway vehicle. 115,968; Aug. 1.
Ramstrum, Eric, Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y. Highway vehicle. 115,969; Aug. 1.
Rosener, Jane, New York, N. Y. Dress. 116,000; Aug. 1.
Rost, Katheryn, New York, N. Y. Dress. 116,001; Aug. 1.
Schilling, Arthur O., Rochester, N. Y., assignor to The Seventh Worlds Poultry Congress and Exposition, Cleveland, Ohio. Display placard or the like. 115,941; Aug. 1.
Schwinn, Frank W., Chicago, Ill. Bicycle. 115,942; Aug. 1.
Seventh Worlds Poultry Congress and Exposition, The. (See Schilling, Arthur O., assignor.)
Sinclair, Homer M., assignor to American Tissue Mills, Holyoke, Mass. Wrapping paper or similar article. 115,980; Aug. 1.
Spathelf, David E., University City, Mo. Shoe. 115,943; Aug. 1.
Standard Oil Company. (See Munson, Ralph O., assignor.)
Steam-Electric Corporation. (See Eckstein, Louis V., assignor.)
Steffens, Eugene C., Chicago, Ill. Lock set. 115,981; Aug. 1.
Stewart, Lemuel L., Chicago, Ill. Lighting fixture or similar article. 115,970; Aug. 1.
Stewart, Lemuel L., Chicago, Ill. Lighting fixture or similar article. 115,971; Aug. 1.
Stone, Mollie, New York, N. Y. Dress. 116,002; Aug. 1.
Stone, Mollie, New York, N. Y. Dress. 116,003; Aug. 1.
Talon, Inc. (See Bailey, Perkins, H., assignor.)
Talon, Inc. (See Poux, Noel J., assignor.)
Universal Dental Company. (See Barnes, Glenn A.)
Vivaudou, Jean E., and H. G. Lubin, New York, N. Y. Sachet ball. 115,972; Aug. 1.
Volupte, Inc. (See Gaige, Richard T., assignor.)
Wahl, Charles, New York, N. Y. Ornamental belt. 115,987; Aug. 1.
Warren Telechron Company. (See Bruce, Leo I., assignor.)
Wartsky, Morris, New York, N. Y. Bolero. 115,988; Aug. 1.
Watling, Burns S., assignor to Watling Scale Company, Chicago, Ill. Weighing scale. 115,944; Aug. 1.
Watling Scale Company. (See Watling, Burns S., assignor.)
West Bend Aluminum Company. (See Kircher, Ralph N., assignor.)
Wester Bros. (See Wester, Herbert, assignor.)
Wester, Herbert, Millburn, N. J., assignor to the firm Wester Bros., New York, N. Y. Pair of shears. 115,945; Aug. 1.
Wiley, Clarence F., Norton, assignor to Glenwood Range Company, Taunton, Mass. Baffle plate for oil burning stoves. 115,946; Aug. 1.
Wilson, Lester F., San Gabriel, Calif. Candle. 115,947; Aug. 1.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 115,982; Aug. 1.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 1st DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aaronson, Henry A. (See Rinkenbach, W. H., and Aaronson.)
Abel, Paul, et al., executors. (See Lilienfeld, Leon.)
Ackerman, Guy O., Worcester, and P. Stewart, Boylston, Mass., assignors to The American Steel and Wire Company of New Jersey. Continuous heat treating furnace. 2,167,821; Aug. 1.
Acme White Lead & Color Works. (See Hicks, Glenn H., assignor.)
Adamson, Allan A., West New York, N. J. Paper cup. 2,168,186; Aug. 1.
Agfa Ansco Corporation. (See Busse, Ferdinand, assignor.)
Agfa Ansco Corporation. (See Ulrich, H., Saurwein, Goldacker, and Malser, assignors.)
Agfa Ansco Corporation. (See Wendt, Bruno, assignor.)
Agfa Ansco Corporation. (See Wilmanns, G., and Schneider, assignors.)
Agtiebolaget Svenska Flaktfabriken. (See Andersson, Axel N. A., assignor.)
Albano, Edmond P., Pelham Manor, N. Y. Speaker unit. 2,167,625; Aug. 1.
Alessandroni, Hugh V., assignor to National Lead Company, New York, N. Y. Preparation of titanium dioxide pigments. 2,167,626; Aug. 1.
Alessandroni, Hugh V., assignor to National Lead Company, New York, N. Y. Beneficiating titanium-bearing siliceous minerals. 2,167,627; Aug. 1.
Alessandroni, Hugh V., assignor to National Lead Company, New York, N. Y. Preparation of titanium dioxide pigmens. 2,167,628; Aug. 1.
Alexander, Peter P., Marblehead, assignor to Metal Hydrides Inc., Clifton, Mass. Welding. 2,168,185; Aug. 1.
Alexander, William J., Carthage, Mo. Draft connection between vehicles. 2,167,792; Aug. 1.
Alford, Andrew, assignor to Mackay Radio and Telegraph Company, New York, N. Y. Antenna. 2,167,735; Aug. 1.
Allen, Sherman T., Los Angeles, Calif. Lock and latch. 2,167,736; Aug. 1.
Allen, William C., Houston, Tex. Collapsible tube dispenser. 2,168,080; Aug. 1.
Allis-Chalmers Manufacturing Company. (See Kaegi, Emil M., assignor.)
American Can Company. (See Clark, Berton S., assignor.)
American Can Company. (See Hothersall, John M., assignor.)
American Can Company. (See Pechy, William, assignor.)
American Steel and Wire Company of New Jersey, The. (See Ackerman, G. O., Jr., and Stewart, assignors.)
American Steel Foundries. (See Hedgcock, William C., assignor.)
Andersen, Carl N., Wellesley Hills, assignor to Lever Brothers Company. Aromatic mercury salts of acetylamino substituted acids. 2,167,966; Aug. 1.
Anderson, John F., Piedmont, Calif., assignor to Pacific Can Company. Can and making same. 2,167,737; Aug. 1.
Anderson, Ralph L., Moline, and F. R. Martin, East Moline, assignors to Deere & Company, Moline, Ill. Corn husker. 2,167,967; Aug. 1.
Anderson, W. Charles, Linden, Calif. Nut huller. 2,167,704; Aug. 1.
Andersson, Axel N. A., assignor to Aktiebolaget Svenska Flaktfabriken, Stockholm, Sweden. Heating radiator. 2,167,822; Aug. 1.
Andrews, Joseph A. (See Murphy, E. A., Trobridge, and Andrews.)
Andrews, O. B., Company. (See Boh, George W., assignor.)
Arehart, David D., assignor to Palace Travel Coach Corporation, Flint, Mich. Motor vehicle trailer. 2,168,147; Aug. 1.
Arehart, David D., assignor to Palace Travel Coach Corporation, Flint, Mich. Draft apparatus for trailers. 2,168,148; Aug. 1.
Arnold, August, Brussels, Belgium, assignor to General Electric Company. Telemetering. 2,168,149; Aug. 1.
Associated Electric Laboratories, Inc. (See Crocker, Thomas F., assignor.)
Associated Electric Laboratories, Inc. (See Wicks, John assignor.)
Ateliers Neyret-Beylier & Piccard-Pictet. (See Danel, Pierre F., assignor.)
Atlantic Refining Company, The. (See Brownscombe, E. R., and Ferris, assignors.)
Auger, Adrien, Ville d'Avray, assignor to Société a Responsabilité Limitée Osmo, Paris, France. Apparatus for forming gas-liquid emulsions. 2,168,187; Aug. 1.
Automatic Sprinkler Company of America. (See Rouse, Edward H., assignor.)
Avery, Clarence W., and A. H. Haberstump, Detroit, Mich., assignors to The Murray Corp. of America. Apparatus for preparing padded trim panels. 2,167,862; Aug. 1.
Avery, Clarence W., assignor to The Murray Corporation of America, Detroit, Mich. Seat frame. 2,167,863; Aug. 1.
Ayres, Harold R., Chicago, Ill., and S. L. Winslow, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for thinning varnishes. 2,168,278; Aug. 1.
Babb, Jerrell, et al. (See Tolberg, C. C., and Koerner, assignors.)
Babcock & Wilcox Company, The. (See Kooistra, Lambert, assignor.)
Backhouse, Headley T., London, England. Sheet feeding machine. 2,167,823; Aug. 1.
Bachr, Hans, and K. Braus, Leuna, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Degasification of alkaline liquids laden with hydrogen sulphide. 2,168,150; Aug. 1.
Bailey, William H., Pueblo, Colo., assignor to The Colorado Fuel and Iron Corporation. Rail fastening. 2,167,864; Aug. 1.
Bainton, Raymond, Santa Monica, Calif. Cover for sealing liquid surfaces. 2,167,619; Aug. 1.
Baker and Company, et al. (See Carter, F. E., Handforth, and Kirst, assignors.)
Baker, David B. (See Johnston, E. A., Baker, and Rogers.)
Baker, Edward E. (See Punte, W. F., and Baker.)
Baldwin Company, The. (See Morse, Arthur H., assignor.)
Ball Brothers Company. (See Wadsworth, Frank L. O., assignor.)
Balle, Gerhard, and G. Schulz, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Dressing textiles. 2,168,253; Aug. 1.
Balz, Emil H. (See Cordier, D. E., and Balz.)
Bar-B-Buns, Inc. (See Strietelmeier, John E., assignor.)
Barber-Colman Company. (See Stewart, Duncan J., assignor.)
Barger, Elbert S., Paducah, Ky. Motor base. 2,167,793; Aug. 1.
Barna, Joseph W., assignor of forty-nine per cent to C. A. Laystrom, Chicago, Ill. Lasting machine. 2,167,738; Aug. 1.
Barnes Drill Co. (See Johnson, A. M., and Fairbairn, assignors.)
Barnes, Roy C., Long Beach, assignor of one-half to W. J. Frazier, Manhattan Beach, Calif. Pole or tower platform. 2,168,111; Aug. 1.
Barrett, Arthur M., Winnetka, assignor to Barrett-Cravens Company, Chicago, Ill. Lift truck. 2,167,968; Aug. 1.
Barrett-Cravens Company. (See Barrett, Arthur M., assignor.)
Bartle, Roy W. (See Kennedy, R. E., and Bartle.)
Bastian Blessing Company, The. (See Buttner, William C., assignor.)
Batten, Percy H., assignor to Twin Disc Clutch Company, Racine, Wis. Clutch mechanism. 2,167,705; Aug. 1.
Battilana, Gualtiero. (See Purkardhofer, G., and Battilana.)
Bauer, Hans F. and J. V., Chicago, and D. M. Hawley, Geneva, assignors to Stein, Hall Manufacturing Company, Chicago, Ill. Applying gummed tape, labels, and the like. 2,167,629; Aug. 1.
Bauer, Jordan V. (See Bauer, Hans, F. and J. V., and Hawley.)
Bauer & Schaurte, Rheinische Schrauben- und Mutternfabrik A.-G. (See Schaurte, Paul, assignor.)
Bazzoni, Charles B., Wallingfor, and J. Razek, Llanerch, assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Electrical prospecting method and apparatus. 2,167,630; Aug. 1.
Bear, Paul S., Elkhart, and R. Billings, Wabash, assignors to Bucklen-Bear Laboratories, Inc., Elkhart, Ind. Condition controller. 2,167,824; Aug. 1.
Beard, Lewis, New Boston, Ill. Farm gate. 2,167,825; Aug. 1.
Beasley, James W. (See Coseboom, Claude W., assignor.)
Beaumont, Ernest, Canton, Ohio. Computing machine. 2,167,620; Aug. 1.
Beaver, David J., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Metal pickling process. 2,167,621; Aug. 1.
Beck, Julius S., assignor to J. Grant, Los Angeles, Calif. Cut indicator for casing cutters. 2,167,739; Aug. 1.

Becker, Bernard C., Canton, assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,167,740; Aug. 1.
Beecher, Valentine, Greenville, N. Y. Pipe coupling. 2,167,865; Aug. 1.
Bell & Howell Company, The. (See Stechbart, B., and Brueske, assignors.)
Bell Telephone Laboratories, Incorporated. (See Skellett, Albert M., assignor.)
Benard, Jacques A. Y., Paris, France. Magnetic compass. 2,168,112; Aug. 1.
Bendix Aviation Corporation. (See Berno, Edward H., assignor.)
Bendix Aviation Corporation. (See Janes, Clinton S., assignor.)
Bendix Aviation Corporation. (See Martin, Thomas B., assignor.)
Bendix Aviation Corporation. (See Spengler, Walter J., assignor.)
Bendix Brake Company. (See La Brie, Ludger E., assignor.)
Bendix Products Corporation. (See Johnson, Carl V., assignor.)
Bendix Radio Corporation. (See Phillips, Willis E., assignor.)
Bennes, Adolph B., assignor of forty per cent to Harmon Manufacturing Company, Inc., and sixty per cent to F. S. Harmon Manufacturing Company, Tacoma, Wash. Turning device. 2,167,924; Aug. 1.
Bennett, Hubert D., assignor to Plaskon Company, Incorporated, Toledo, Ohio. Device for atomizing liquid insecticides or fungicides. 2,167,866; Aug. 1.
Bennett Incorporated. (See Strovink, Florian A., assignor.)
Bennett, Rowland K. (See Cornell, M. L., Graff, and Bennett.)
Benning, Anthony F., Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Lubricant. 2,167,867; Aug. 1.
Bentivoglio, Marie, New York, N. Y. Pillow or the like. 2,167,622; Aug. 1.
Bentz, George B., Bronx, N. Y. Child's swing. 2,167,794; Aug. 1.
Bentz, George B., Bronx, N. Y. Vanity attachment for bathtubs. 2,167,795; Aug. 1.
Bergmann, Christian N., Pittsburgh, assignor of two-sixths to C. M. Clarke, Sewickley, Pa. Container conveyer and distributor. 2,168,191; Aug. 1.
Bernasconi, Ednard. (See Gubler, H., and Bernasconi.)
Bernegau, Carl M., assignor to Keuffel & Esser Company, Hoboken, N. J. Slide rule. 2,168,056; Aug. 1.
Bernhard, Hans, Zurich, Switzerland. Collapsible umbrella. 2,168,188; Aug. 1.
Berno, Edward H., assignor to Bendix Aviation Corporation, South Bend, Ind. Brake. 2,167,706; Aug. 1.
Best, Frank C., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,167,868; Aug. 1.
Best, John G., assignor to General Animated Signs, Limited, Toronto, Ontario, Canada. Illuminated sign apparatus and method. 2,168,113; Aug. 1.
Best, Leonard E. (See Durham, W. C., and Best.)
Beth, Hugo W. H., assignor to Norton Company, Worcester, Mass. Segmental abrasive wheel. 2,168,283; Aug. 1.
Biddle, William M., Collingswood, N. J. Making shoe last models. 2,167,796; Aug. 1.
Billings, Roy. (See Bear, P. S., and Billings.)
Billings & Spencer Company. (See Kane, Henry J., assignor.)
Bischoff, Robert, assignor to S. Morgan Smith Company, York, Pa. Valve. 2,168,254; Aug. 1.
Bischoff, Robert, Baltimore, Md., assignor to S. Morgan Smith Company, York, Pa. Valve. 2,168,255; Aug. 1.
Bliss, E. W., Company. (See Crane, E. V., and Steele, assignors.)
Bliss, Harvey N., Windsor, Conn., assignor to Veeder-Root, Incorporated. Counter. 2,168,151; Aug. 1.
Bogoslowsky, Boris, New York, N. Y. Making a golf ball. 2,167,869; Aug. 1.
Boh, George W., assignor to O. B. Andrews Company, Chattanooga, Tenn. Container. 2,167,741; Aug. 1.
Borchers, Fred. (See Watts, J. M., Freesh, and Borchers.)
Borden, Forrest V., San Luis Obispo, Calif. Clutch or brake band. 2,167,935; Aug. 1.
Borlo, Jerome, Sawyerville, Ill. Table utility arrangement. 2,167,742; Aug. 1.
Boussel, André, Courbevoie, assignor to Societe Anonyme des Anciens Etablissements, Hotchkiss & Cie, Levallois-Perret, Seine, France. Remote control for automatic fire arms. 2,168,114; Aug. 1.
Bowers, Frederick M., Chester, Pa. Combination welding helmet and safety hat. 2,167,969; Aug. 1.
Boyar-Schultz Corporation. (See Gideon, Victor W., assignor.)
Boyce, William S., Chicago, Ill. Rail fastening. 2,167,870; Aug. 1.
Boyian, Felix T., New York, N. Y. Delinquency card selecting machine. 2,167,871; Aug. 1.
Brady, Aloysius P. (See de Simó, M., and Brady.)
Brady, James H., Louisville, Ky. Electric traffic signal. 2,167,631; Aug. 1.
Brauchler, Charles A., Canton, Ohio. Garage door operator. 2,168,152; Aug. 1.
Braus, Karl. (See Baehr, H., and Braus.)
Bray, Uiric B., Palos Verdes Estates, assignor to Union Oil Company of California, Los Angeles, Calif. Separation of wax from oil. 2,167,970; Aug. 1.
Breitenstein, Charles J., assignor to R. T. Maloney, Chicago, Ill. Switch structure. 2,168,057; Aug. 1.
Brisbin, George W. F. (See Playfair, A. F., Brisbin, and Jordan.)
Bristol, Carlton W., Naugatuck, assignor to The Bristol Company, Waterbury, Conn. Resilient linkage for measuring instruments. 2,167,872; Aug. 1.
Bristol Company, The. (See Bristol, Carlton W., assignor.)
Bristow, Franciss G. W., Eastwood, near Sydney, New South Wales, Australia. Cutter for shearing machines. 2,168,189; Aug. 1.
Britter, George H., Long Beach, Calif. Fluid operated pump jack. 2,167,623; Aug. 1.
Brodsky, Frank, New York, N. Y. Filling and sealing device for containers. 2,167,624; Aug. 1.
Brooks, Clarence W., Jr., Wenonah, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Black powder manufacture. 2,168,020; Aug. 1.
Brooks, Paul J., Lakewood, assignor to The Hankins Container Company, Cleveland, Ohio. Paperboard basket. 2,167,936; Aug. 1.
Brown, George R., Stratford, Conn., assignor to General Electric Company. Renewable fuse. 2,168,153; Aug. 1.
Brown Instrument Company, The. (See Moore, Coleman B., assignor.)
Browne, Joseph C., Philadelphia, Pa., assignor to N. Posner, Baltimore, Md. Automotive trailer coupling. 2,168,058; Aug. 1.
Brownscombe, Eugene R., and S. W. Ferris, Aldan, assignors to The Atlantic Refining Company, Philadelphia, Pa. Recovery of solvent from hydrocarbon oils. 2,167,632; Aug. 1.
Brueske, George A. (See Stechbart, B., and Brueske.)
Brush Beryllium Company, The. (See Sawyer, Charles B., assignor.)
Buckien-Bear Laboratories, Inc. (See Bear, P. S., and Billings, assignors.)
Bull, Cabot S., Uxbridge, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Electron discharge device. 2,167,826; Aug. 1.
Bunau-Varilla, Guy, Paris, France. Automobile vehicle. 2,168,108; Aug. 1.
Burgin, James. (See Groll, H. P. A., Hearne, Burgin, and La France.)
Burrows, Robert J., and A. O. Williams, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Wheel. 2,167,633; Aug. 1.
Burtnett, Edith G. (See Burtnett, Everett R., assignor.)
Burtnett, Everett R., assignor of one-third to E. G. Burtnett, Los Angeles, Calif. Automatic change speed transmission. 2,167,873; Aug. 1.
Bush, A. G. (See Criner, Harry J., assignor.)
Busse, Edwin G., assignor to Chicago Railway Equipment Company, Chicago, Ill. Sliding door equipment. 2,167,707; Aug. 1.
Busse, Ferdinand, Munich, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic enlarging apparatus. 2,168,190; Aug. 1.
Butler, Robert S., Claremont, N. H., assignor to Sullivan Machinery Company. Reduction. 2,168,081; Aug. 1.
Butler, Robert S., Claremont, N. H., assignor to Sullivan Machinery Company. Apparatus for reduction. 2,168,082; Aug. 1.
Butler, Robert S., Claremont, N. H., assignor to Sullivan Machinery Company. Crusher. 2,168,083; Aug. 1.
Butler, Robert S., Claremont, N. H., assignor to Sullivan Machinery Company. Size-reducing apparatus. 2,168,084; Aug. 1.
Butler, Robert S., Claremont, N. H., assignor to Sullivan Machinery Company. Mill. 2,168,087; Aug. 1.
Butler, Robert S., Claremont, N. H., assignor to Sullivan Machinery Company. Mill. 2,168,088; Aug. 1.
Butler, Robert S., Claremont, N. H., assignor to Sullivan Machinery Company. Size-reducing apparatus. 2,168,091; Aug. 1.
Butler, Robert S., Santa Monica, Calif., assignor to Sullivan Machinery Company. Mill. 2,168,085; Aug. 1.
Butler, Robert S., Santa Monica, Calif., assignor to Sullivan Machinery Company. Mill. 2,168,086; Aug. 1.
Butler, Robert S., Santa Monica, Calif., assignor to Sullivan Machinery Company. Mill. 2,168,089; Aug. 1.
Butler, Robert S., Santa Monica, Calif., assignor to Sullivan Machinery Company. Pulverizer. 2,168,090; Aug. 1.
Buttner, William C., Winnetka, assignor to The Bastian Blessing Company, Chicago, Ill. Beverage dispensing system and apparatus. 2,168,059; Aug. 1.
Byrnes, Clarence P. (See Pedersen, I. O., and Byrnes, assignors.)
Cabot, Godfrey L., Inc. (See Offutt, Harold H., assignor.)
Cadden, Charles C., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for coiling strip material. 2,167,971; Aug. 1.
Callaghan, George H. (See Dewan, Leon, assignor.)
Caluwe, Georges, Moll, Belgium. Filter for artesian wells or bore holes. 2,167,743; Aug. 1.
Calvert, William C., Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Package. 2,167,634; Aug. 1.

Calvert, William C., Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Wilmington, Del. Thermal seal. 2,168,015; Aug. 1.
Camilli, Guglielmo, Pittsfield, Mass., assignor to General Electric Company. Transformer. 2,168,154; Aug. 1.
Camp, Eugene V., Atlanta, Ga. Traffic guard. 2,167,635; Aug. 1.
Carey, Philip, Manufacturing Company, The. (See Fischer, Albert C., assignor.)
Carey, Philip, Manufacturing Company, The. (See MacArthur, Roger A., assignor.)
Carleton, Emile J. (See Morin, G. G., and Carleton.)
Carleton, Michael D., assignor to Reed Roller Bit Company, Houston, Tex. Roller bit. 2,168,192; Aug. 1.
Carlson, Conrad, Brooklyn, N. Y. Oar operating mechanism. 2,167,636; Aug. 1.
Carter, Fred E., Maplewood, N. J., S. L. Handforth, Gordon Heights, Del., and W. E. Kirst, Woodbury, N. J., assignors of one-half to E. I. du Pont de Nemours and Company, Inc., and one-half to Baker and Company, Inc., Newark, N. J. Process of oxidizing ammonia. 2,167,708; Aug. 1.
Case, Nelson P., Great Neck, N. Y., assignor to Hazeltine Corporation. Multiband receiver. 2,168,193; Aug. 1.
Caterpillar Tractor Co. (See Starr, O. L., Grothe, and Eberhard, assignors.)
Catland, Alfred C., Alhambra, assignor to Globe Oil Tools Company, Nietos, Calif. Cutters for well drilling tools. 2,168,060; Aug. 1.
Caughey, Reed J., Schenectady, N. Y., assignor to General Electric Company. Governing system for elastic fluid engines. 2,168,155; Aug. 1.
Celanese Corporation of America. (See Plunkett, Brian, assignor.)
Celanese Corporation of America. (See Rooney, J. H., and Hawtin, assignors.)
Celanese Corporation of America. (See Taylor, W. I., and Woodruff, assignors.)
Chain Belt Company. (See Marshall, William B., assignor.)
Chain Belt Company. (See Welser, B., and Jewett, assignor.)
Chandler, Bruce C., Waukegan, Ill., assignor to Pfanstiehl Chemical Company. Welding small tips to bases. 2,167,925; Aug. 1.
Chicago Electric Manufacturing Company. (See Preston, Edward S., assignor.)
Chicago Railway Equipment Company. (See Busse, Edwin G., assignor.)
Chicago Railway Equipment Company. (See Fine, William H., assignor.)
Christie, Walter E., Oakland, and O. Schroeder, assignors to Soule Steel Company, San Francisco, Calif. Retractable ramp for railway crossings. 2,168,061; Aug. 1.
Cincinnati Grinders Incorporated. (See Herfurth, C., and Schliedorn, assignors.)
Cincinnati Tool Company, The. (See Farmer, Delbert L., assignor.)
Claff, Clarence L., Randolph, Mass. Stock control means. 2,167,637; Aug. 1.
Clanton, George W., San Jose, Calif. Toy. 2,167,937; Aug. 1.
Clark, Berton S., San Francisco, Calif., assignor to American Can Company, New York, N. Y. Coating composition for sheet metal containers. 2,167,638; Aug. 1.
Clark Equipment Company. (See Burrows, R. J., and Williams, assignors.)
Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Capacitor composition. 2,168,156; Aug. 1.
Clark, Paul M., et al. (See McElwain, William H., assignor.)
Clarke, Charles M. (See Bergmann, Christian N., assignor.)
Clary, Hugh L., San Matio, assignor to Clary Multiplier Corporation, Los Angeles, Calif. Adding, subtracting, and multiplying machine. 2,167,827; Aug. 1.
Clary Multiplier Corporation. (See Clary, Hugh L., assignor.)
Clemmons, Herbert D., assignor to Scovill Manufacturing Company, Sturgis, Mich. Vacuum breaking ball cock. 2,167,938; Aug. 1.
Cloutier, Arthur N. (See Lawson, R. H., and Cloutier.)
Coleman, Gerald H., L. E. Mills, and G. V. Moore, assignors to The Dow Chemical Company, Midland, Mich. Chloralkyl xenoxy ethers. 2,167,639; Aug. 1.
Collis Company, The. (See Roberts, John, assignor.)
Collot, Arthur M., Miami, Fla. Repair bracket support for lawn mowers. 2,168,115; Aug. 1.
Colomb, Henri, Lausanne, Switzerland. Keyless winding for watches. 2,167,797; Aug. 1.
Color Laboratories, Inc. (See Gartland, Ignatious L., assignor.)
Colorado Fuel and Iron Corporation, The. (See Bailey, William H., assignor.)
Commercial Shearing & Stamping Company, The. (See Galanot, Camille P., assignor.)
Compo Shoe Machinery Corporation. (See Durham, W. C., and Best, assignors.)
Consolidated Expanded Metal Companies, The. (See McGee, Richard T., assignor.)
Contineugal Can Company. (See Fink, H. A., and Haycock, assignors.)
Continental Can Company. (See Punte, W. F., and Baker, assignors.)
Continental Can Company. (See Stevenson, A. E., and Flugge, assignors.)
Cook, William A., Chicago, Ill. Insulating partition. 2,168,299; Aug. 1.
Cope, Frank T., assignor to The Electric Furnace Company, Salem, Mass. Lubricating construction for roller rails for furnaces. 2,167,640; Aug. 1.
Cordier, David E., Toledo, Ohio, and E. H. Balz, Pittsburgh, Pa., assignors to Plaskon Company, Incorporated. Cement and making the same. 2,167,874; Aug. 1.
Cork, Edward C., Ealing, London, and J. L. Pawsey, Hillingdon, assignors to Electric & Musical Industries Limited, Middlesex, England. Wireless aerial system. 2,167,709; Aug. 1.
Corliss Manufacturing Co. (See Glasker, Jacob, assignor.)
Cornell Iron Works, Inc. (See Cornell, M. L., Graff, and Bennett, assignors.)
Cornell, Milton L., A. H. Graff, and R. K. Bennett, New York, assignors to Cornell Iron Works, Inc., Long Island City, N. Y. Flexible grille. 2,167,875; Aug. 1.
Cosby, Ira R., and C. E. Goodell, Spokane, Wash. Saw arbor. 2,167,744; Aug. 1.
Coseboom, Claude W., Altadena, assignor of one-half to J. W. Beasley, East San Gabriel, Calif. Patty-forming machine. 2,167,876; Aug. 1.
Cozzitorto, Angelo, Fresno, Calif. Safety appliance for airplanes. 2,168,094; Aug. 1.
Crago, Harry R., Verona, N. J., assignor to General Electric Company. Fluid cooling system. 2,168,157; Aug. 1.
Cramer, Russell E., Audubon, assignor to Radio Condenser Company, Camden, N. J. Electrical condenser construction. 2,167,877; Aug. 1.
Crane Co. (See Rumely, Vincent P., assignor.)
Crane Co. (See Zinkil, Roy H., assignor.)
Crane, Edward V., Brooklyn, N. Y., and N. O. Steele, Genoa, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y. Brake means for power press feed rolls. 2,168,284; Aug. 1.
Cranmer, Ross B., Barnegat, N. J. Draft control mechanism. 2,168,021; Aug. 1.
Crawford, Richard A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Protective surface. 2,167,972; Aug. 1.
Crawford, Robert B., Washington, D. C. Air conditioning system. 2,167,878; Aug. 1.
Criner, Harry J., assignor of one-half to A. G. Bush, Davenport, Iowa. Slicing machine. 2,167,939; Aug. 1.
Crites, Wilbur J., and W. B. Lerch, Bartlesville, Okla., assignors to Phillips Petroleum Company. Flowing oil wells. 2,168,116; Aug. 1.
Crocker, Thomas F., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,167,710; Aug. 1.
Crown Cork & Seal Company. (See Flotron, Paul E., assignor.)
Daimler-Benz Aktiengesellschaft. (See Nallinger, Fritz, assignor.)
Dalton, Harold R., Teaneck, N. J., assignor to Postal Telegraph-Cable Company (New York), New York, N. Y. Adhesive coated paper. 2,167,711; Aug. 1.
Danel, Pierre F., Grenoble, France, assignor to Ateliers Neyret-Beylier & Piccard-Pictet. Apparatus for controlling liquid levels. 2,168,117; Aug. 1.
"Danuvia" Ipari és Kereskedelmi R. T. (See Gebauer, Ferenc, assignor.)
Davey, Cecil F., Los Angeles, Calif. Trailer for motor vehicles. 2,168,062; Aug. 1.
Davids, Hans, Beloit, Wis., assignor to Fairbanks, Morse Co., Chicago, Ill. Internal combustion engine. 2,167,745; Aug. 1.
Davis, James H. (See Lemming, J. C., and Davis.)
Davis, William R. (See Klemm, Hanns, assignor.)
Dayton Rubber Manufacturing Company, The. (See Freedlander, Abraham L., assignor.)
Deere & Company. (See Anderson, R. L., and Martin, assignors.)
Deere & Company. (See Strandlund, Carl G., assignor.)
Defender Photo Supply Company. (See Smith, R. E., and Molin, assignors.)
De Laval Separator Company, The. (See Hall, Selden H., assignor.)
Delta Company, The. (See Tautz, Herbert E., assignor.)
De Luxe Products Corporation. (See Hurn, James E., assignor.)
De Martini, Orestes, et al. (See Purkardhofer, G., and Battilana, assignors.)
Denegre, Charles, et al. (See Fulmer, F. P., and Hollingsworth, assignors.)
Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Apparatus for heat treating gears and the like. 2,167,798; Aug. 1.
De Simó, Martin, Piedmont, and A. P. Brady, Oakland, assignors to Shell Development Company, San Francisco, Calif. Desulphurization of alkyl phenols. 2,168,256; Aug. 1.
Des Roches, Philip W., Detroit, Mich. Electric refrigerating compressor. 2,167,879; Aug. 1.
Detrick, M. H., Company. (See Pollen, Charles F., as-

Detroit Edison Company, The. (See Matthews, George A., assignor.)
Detroit Hydrostatic Brake Corporation. (See Sauzedde, Claude, assignor.)
Deubel, Carl G., assignor to Progressive Service Company, Harrisburg, Pa. Making dies. 2,167,880; Aug. 1.
De Vries, Gerrit, and C. G. A. von Lindern, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Oscillator and frequency changer. 2,168,295; Aug. 1.
De Vries, Gerrit, and C. G. A. von Lindern, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Microwave oscillator and associated circuit. 2,168,296; Aug. 1.
Dewan, Leon, assignor of fifty per cent to G. H. Callaghan, New York, N. Y. Transmission mechanism. 2,167,641; Aug. 1.
Dewan, Leon, assignor of fifty per cent to G. H. Callaghan, New York, N. Y. Method and apparatus for printing sound film. 2,167,642; Aug. 1.
Diamond Match Company, The. (See Olson, Eric P., assignor.)
Diamond Match Company, The. (See Wright, Charles F., assignor.)
Dickson Gasket Company. (See Dickson, James G., assignor.)
Dickson, Frank F., High Point, N. C. Utility light. 2,168,118; Aug. 1.
Dickson, James G., Glencoe, assignor to Dickson Gasket Company, Chicago, Ill. Gasket. 2,167,643; Aug. 1.
Diehl, Walter S., U. S. Navy. Amphibian hull resilient step. 2,167,644; Aug. 1.
Dietrich, Herbert, Meinersdorf i. E., Germany. Flat knitting frame. 2,168,194; Aug. 1.
Dobrzensky, Milton W. (See Luce, Milton A., assignor.)
Dodd, Albert E., Woodford, Dromara, Northern Ireland. Apparatus for obtaining fibers from the stalks of flax and other bast plants. 2,168,095; Aug. 1.
Dodge, William A., administrator. (See Sabbah, C. A., and Morton.)
Doll, Laurence C., Ithaca, N. Y. Racket press. 2,168,119; Aug. 1.
Donald, Bruce L., assignor of one-third to F. T. Findlay and one-third to G. A. O'Nell, Niagara Falls, N. Y. Cable clamp. 2,167,799; Aug. 1.
Donnell, Don R., Los Angeles, Calif. Scoring means in printing presses. 2,167,746; Aug. 1.
Dornier-Werke G. m. b. H. (See Keitel, Hans J., assignor.)
Dow Chemical Company, The. (See Coleman, G. H., Mills, and Moore, assignors.)
Dowdell, Ralph L., St. Paul, and R. G. Green, assignors to Regents of the University of Minnesota, Minneapolis, Minn. Bird shot. 2,167,828; Aug. 1.
Drager, Johan, Amsterdam, Netherlands. Flexible screen. 2,168,022; Aug. 1.
Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)
Duner, Sven, Wheaton, assignor to Duner Co., Chicago, Ill. Water closet. 2,167,645; Aug. 1.
Duner Co. (See Duner, Sven, assignor.)
Dunlop Rubber Company Limited. (See Murphy, E. A., Trobridge, and Andrews, assignors.)
Dunn, William C. (See Denneen, F. S., and Dunn.)
Du Pont, E. I., de Nemours & Company. (See Ayres, H. R., and Winslow, assignors.)
Du Pont, E. I., de Nemours & Company. (See Benning, Anthony F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Brooks, Clarence W., Jr., assignor.)
Du Pont, E. I., de Nemours and Company, et al. (See Carter, F. E., Handforth, and Kirst, assignors.)
Du Pont, E. I., de Nemours & Company. (See Ensminger, George R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Gladding, Ernest K., assignor.)
Du Pont, E. I., de Nemours & Company. (See Hanson, Victor F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Holmes, Harrison H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Molyneaux, Lee B., assignor.)
Du Pont, E. I., de Nemours & Company. (See Nebel, Walter, assignor.)
Du Pont, E. I., de Nemours & Company. (See Reichert, Joseph S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Rossander, Swanie S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Walker, Joseph F., assignor.)
Durham, Willard C., Winchester, Mass., and L. E. Best, Summit, N. J., assignors to Compo Shoe Machinery Corporation, Boston, Mass. Making shoe press pads. 2,168,283; Aug. 1.
Dyer, John B., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Engine starter control apparatus. 2,167,646; Aug. 1.
Dyer, Zeb A., et al. (See Robinson, Slayden R., assignor.)
Dyer, Zeb A., Los Angeles, assignor of one-fourth to C. Lamb, and one-fourth to D. R. Radford, South Pasadena, Calif. Top-cementing plug. 2,167,747; Aug. 1.
Dymeck, Charles P., New York, N. Y. Automatic brake mechanism for feeding material from a roll. 2,168,023; Aug. 1.
Eberhard, Harmon S. (See Starr, O. L., Grothe, and Eberhard.)
Eberts, Edward C. and K. M., Indianapolis, Ind. Treating liquids and semiliquids. 2,167,881; Aug. 1.
Eberts, Kenneth M. (See Eberts, Edward C. and K. M.)
Eckley, John M., et al. (See McElwain, William H., assignor.)
Edison General Electric Appliance Company. (See Rees, Gregory L., assignor.)
Edwards, Oliver M., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y. Window construction. 2,167,973; Aug. 1.
Edwards, Oliver M., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Window construction. 2,167,974; Aug. 1.
Edwards, O. M., Company Inc., The. (See Edwards, Oliver M., assignor.)
Ehrlich, Josef, Klosterneuburg, Austria, assignor to Works Development Company, Limited, London, England. Two-stroke engine. 2,168,096; Aug. 1.
Electric Furnace Company, The. (See Cope, Frank T., assignor.)
Electric & Musical Industries Limited. (See Bull, Cabot S., assignor.)
Electric & Musical Industries Limited. (See Cork, E. C., and Pawsey, assignors.)
English, Weber J., Elgin, Oreg. Sheet-end signaling device. 2,168,195; Aug. 1.
Ensminger, George R., New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cleaning composition. 2,168,024; Aug. 1.
Erickson, John A., Jackson, Mich. Heating and spraying apparatus. 2,167,940; Aug. 1.
Ericson, George R., St. Louis, Mo. Carburetor structure. 2,167,975; Aug. 1.
Ernst, Walter, Mount Gilead, Ohio, assignor to The Hydraulic Press Corporation, Inc., Wilmington, Del. Double-acting press. 2,167,941; Aug. 1.
Ethier, Napoleon, Maniwaki, Quebec, Canada. Meat tenderer. 2,168,120; Aug. 1.
Eustis, Warner, Newton, and A. W. Vint, Walpole, assignors to The Kendall Company, Boston, Mass. Wettable material. 2,168,286; Aug. 1.
Everson, Franklin E., Scarsdale, N. Y. Display form. 2,168,063; Aug. 1.
Fabbrica Italiana Magneti Marelli Società Anonima. (See Kamenarović, Leone, assignor.)
Faber, Herbert A., Cincinnati, Ohio. Expanded-metal structural unit. 2,168,196; Aug. 1.
Faber, Herbert A., Cincinnati, Ohio. Boiler. 2,168,197; Aug. 1.
Fairbairn, Walter M. (See Johnson, A. M., and Fairbairn.)
Fairbanks, Morse & Co. (See Davids, Hans, assignor.)
Fairbanks, Morse & Co. (See Gebert, Sever C., assignor.)
Falk Corporation, The. (See Schmitter, Walter P., assignor.)
Faller, Ernest A., Brooklyn, N. Y. Control system and apparatus. 2,167,829; Aug. 1.
Faloon, Dalton B., assignor to Hammond Paint & Chemical Co., Inc., Beacon, N. Y. Insecticide. 2,168,064; Aug. 1.
Farmer, Delbert L., Cincinnati, assignor to The Cincinnati Tool Company, Norwood, Ohio. Clamp. 2,168,257; Aug. 1.
Farnsworth Television & Radio Corporation. (See Snyder, Richard L., assignor.)
Fast, Gustave, assignor to Gustave Fast Engineering Corporation, Annapolis, Md. Block bearing. 2,167,882; Aug. 1.
Fast, Gustave, Engineering Corporation. (See Fast, Gustave, assignor.)
Favaron, Aldo, assignor to the firm "Fidenza" Società Anonima Vetraria, Milan, Italy. Glass slab for the construction of walls and illuminated covers. 2,168,287; Aug. 1.
Federal Telegraph Company. (See Wagner, Stephan R., assignor.)
Ferree, Jay W., Pittsburgh, Pa. Pig casting machine. 2,167,883; Aug. 1.
Ferris, Seymour W. (See Brownscrombe, E. R., and Ferris.)
"Fidenza" Società Anonima Vetraria. (See Favaron, Aldo, assignor.)
Findlay, Francis T., et al. (See Donald, Bruce L., assignor.)
Fine, William H., Los Angeles, Calif., assignor to Chicago Railway Equipment Company, Chicago, Ill. Brake gear support. 2,167,712; Aug. 1.
Fink, Henry A., Pelham Manor, and J. Haycock, Larchmont, assignors to Continental Can Company, Inc., New York, N. Y. Container. 2,168,097; Aug. 1.
Firma A. G. vorm. Seidel & Naumann. (See Müller, Karl R.)
Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Extruding sheet material. 2,168,288; Aug. 1.
Fischer, Albert C., Chicago, Ill., assignor to The Philip Carey Manufacturing Company. Constructional material. 2,168,289; Aug. 1.
Fisher, Gerald M., Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gear lubricant. 2,168,258; Aug. 1.
Fleischman, Isidore. (See Levin, B. M., and Fleischman, assignors.)

Flexiback Machinery Company. (See Kitcat, Alfred J., assignor.)
Flotron, Paul E., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Manufacture of cork block and insulation. 2,167,800; Aug. 1.
Flotron, Paul E., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md. Apparatus for manufacture of cork block and insulation. 2,167,801; Aug. 1.
Flugge, Sylvester L. (See Stevenson, A. E., and Flugge.)
Fluor Corporation, The. (See Henderson, E., Reddick, and Laulhere, assignors.)
Foehr, Joseph F., Garden City, N. Y. Picker for looms. 2,167,830; Aug. 1.
Follsain Syndicate Limited. (See Leverick, Frank, assignor.)
Food Machinery Corporation. (See Morse, James W., assignor.)
Fox, Frederick A., Glendale, Calif. Steering mechanism. 2,167,943; Aug. 1.
Foxboro Company, The. (See Howe, Wilfred H., assignor.)
Franke, Warren, Brooklyn, N. Y. Novelty folder. 2,168,025; Aug. 1.
Frazier, William J. (See Barnes, Roy C., assignor.)
Frederics, E., Inc. (See Frederics, Ernest O., assignor.)
Frederics, Ernest O., Bronxville, assigner to E. Frederics, Inc., New York, N. Y. Hair waving apparatus. 2,167,831; Aug. 1.
Freedlander, Abraham L., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Belt unit. 2,167,942; Aug. 1.
Freesh, John. (See Watts, J. M., Freesh, and Borchers.)
French, Frederick W., Oakland, Calif. Ceiling and wall cleaner. 2,168,121; Aug. 1.
Freytag, Adolf. (See Hopff, H., Kellermann, and Freytag.)
Frink, Frederick W., Yonkers, N. Y. Electrical counting system. 2,168,198; Aug. 1.
Fritz, Adam, Philadelphia, Pa. Bottle breaking device. 2,168,026; Aug. 1.
Fulmer, Frederick P., Trussville, and J. S. Hollingsworth, Tarrant, assignors of thirty percent to said Fulmer, forty percent to C. Denegre, Birmingham, and thirty percent to R. C. Todd, Trussville, Ala. Electric watthour meter. 2,167,832; Aug. 1.
Galanot, Camille P., Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Company. Dump vehicle. 2,168,298; Aug. 1.
Gamewell Company, The. (See Weld, F. E., and Smith, assignors.)
Gartland, Ignatius L., Scarsdale, assignor to Color Laboratories, Inc., New York, N. Y. Apparatus for determining the printing time for photographic negatives. 2,167,884; Aug. 1.
Garvey, Benjamin S., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Rubber derivative. 2,168,279; Aug. 1.
Gausmann, Carl, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, Dessau, Anhalt, Germany. Piston pump. 2,168,122; Aug. 1.
Gebauer, Ferenc, assignor of one-half to "Danuvia" Ipari és Kereskedelmi R. T., Budapest, Hungary. Cartridge feed mechanism for firearms. 2,168,199; Aug. 1.
Gebert, Sever C., assignor to Fairbanks, Morse & Co., Chicago, Ill. Variable speed gear transmission. 2,167,748; Aug. 1.
General Aniline Works, Inc. (See Schlichting, Otto, assignor.)
General animated Signs, Limited. (See Best, John G., assignor.)
General Ceramics Company. (See McDowell, Samuel J., assignor.)
General Electric Company. (See Arnold, August, assignor.)
General Electric Company. (See Brown, George R., assignor.)
General Electric Company. (See Camilli, Guglielmo, assignor.)
General Electric Company. (See Caughey, Reed J., assignor.)
General Electric Company. (See Clark, Frank M., assignor.)
General Electric Company. (See Crago, Harry R., assignor.)
General Electric Company. (See Hall, Chester I., assignor.)
General Electric Company. (See Koller, L. R., and Johnson, assignors.)
General Electric Company. (See Larrecq, Anthony J., assignor.)
General Electric Company. (See Mittag, Albert H., assignor.)
General Electric Company. (See Sabbah, C. A., and Morton, assignors.)
General Electric Company. (See Seeley, Harold T., assignor.)
General Electric Company. (See Stephens, Howard O., assignor.)
General Electric Company. (See Thompson, Harris A., assignor.)
General Electric Company. (See Townsend, George R., assignor.)
General Motors Corporation. (See Dyer, John B., assignor.)
General Motors Corporation. (See Geyer, Harvey D., assignor.)
General Motors Corporation. (See Lemming, John C., assignor.)
General Motors Corporation. (See Lemming, J. C., and Davis, assignors.)
General Motors Corporation. (See Lignian, Jean A., assignor.)
General Motors Corporation. (See Lignian, J. A., and Koehring, assignors.)
Gevaert Photo-Producten N. V. (See Verkinderen, Honoré, assignor.)
Geyer, Harvey D., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Ice tray. 2,168,200; Aug. 1.
Gideon, Victor W., assignor to Boyar-Schultz Corporation, Chicago, Ill. Grinding machine. 2,167,647; Aug. 1.
Gilbert, Walter W., Stillwater, Minn. Combined steering and braking mechanism. 2,168,201; Aug. 1.
Gillham, Daniel H., and G. H. Meade, San Jose, Calif.; said Meade assignor to said Gilham, Washer. 2,167,944; Aug. 1.
Gilliam, Jewell A., Wingo, Ky. Fly-rod fish lure. 2,167,945; Aug. 1.
Githens, Otto W., and G. Kende, New York, and E. M. Porter, Brooklyn, assignors, by mesne assignments, to Universal Camera Corporation, New York, N. Y. Intermittent film feed and shutter mechanism. 2,167,713; Aug. 1.
Gladding, Ernest K., Buffalo, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Apparatus for the production of filaments, threads, and the like. 2,168,027; Aug. 1.
Glans, Joseph R., Bloomfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electrode assembly. 2,167,885; Aug. 1.
Glasker, Jacob, assignor to Corliss Manufacturing Co., Boston, Mass. Traveling kit. 2,167,926; Aug. 1.
Gold, Jacob, Hollywood, Calif. Cutting device. 2,167,833; Aug. 1.
Goldacker, Paul. (See Ulrich, H., Saurwein, Goldacker, and Maiser.)
Goldberg, Maxmilian M., assignor to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,167,714; Aug. 1.
Goldfield, Edwin R., University Heights, assignor to Picker X-Ray Corporation Waite Manufacturing Division, Inc., Cleveland, Ohio. X-ray tube control means. 2,167,802; Aug. 1.
Goodell, Clifford E. (See Cosby, I. R., and Goodell.)
Goodrich, B. F., Company, The. (See Cadden, Charles C., assignor.)
Goodrich, B. F., Company, The. (See Crawford, Richard A., assignor.)
Goodrich, B. F., Company, The. (See Garvey, Benjamin S., assignor.)
Goodrich, B. F., Company, The. (See Riley, Ralph E., assignor.)
Goodrich, B. F., Company, The. (See Taylor, Myron L., assignor.)
Goodrich, B. F., Company, The. (See Waner, Harry E., assignor.)
Goodrich, B. F., Company, The. (See Winch, Reuben E., assignor.)
Görlich, Paul, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Photoelectrically responsive layer. 2,168,259; Aug. 1.
Goserud, Chester O., St. Paul, Minn. Sash stay and fastener. 2,167,834; Aug. 1.
Gosselin, Carl. (See Loffler, C., and Gosselin.)
Goulds Pumps, Inc. (See Mann, John, assignor.)
Graff, August H. (See Cornell, M. L., Graff, and Bennett.)
Graham, George M., and C. W. MacMillan, Detroit, assignors to Hinckley Myers Company, Jackson, Mich. Headlight testing apparatus. 2,167,803; Aug. 1.
Graham, James B., Mount Lebanon, and R. G. Mayer, Wilkinsburg, Pa., assignors to National Tube Company. Apparatus for aligning, welding, and testing pipe joints. 2,167,886; Aug. 1.
Graham, James B., Mount Lebanon, and R. G. Mayer, Wilkinsburg, Pa., assignors to National Tube Company. Pipe aligning clamp. 2,167,887; Aug. 1.
Graham, James B., Mount Lebanon, and R. G. Mayer, Wilkinsburg, Pa., assignors to National Tube Company. Plug for lining up and welding casing and line pipe. 2,167,896; Aug. 1.
Grand Rapids Fibre Cord Company. (See Nykamp, Louis E., assignor.)
Grant, Albert E., assignor to Albert T. Otto & Sons, Inc., New York, N. Y., trustee. Electric switch. 2,167,648; Aug. 1.
Grant, John. (See Beck, Julius S., assignor.)
Grantham, Aubrey B., Douglaston, N. Y. Windshield wiper. 2,168,202; Aug. 1.
Gray, Edward, assignor of one-half to G. Wood, Detroit, Mich. Internal combustion engine. 2,167,946; Aug. 1.
Green, Charles W., assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 2,167,715; Aug. 1.
Green, Raymond V., Fulton, N. Y. Tube cutting machine. 2,168,203; Aug. 1.
Green, Robert G. (See Dowdell, R. L., and Green.)

Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electric meter. 2,167,649; Aug. 1.

Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electric meter. 2,168,290; Aug. 1.

Greulich, Gerald G., Mount Lebanon, Pa. Structural joist or nailer stud. 2,167,835; Aug. 1.

Greulich, Gerald G., Mount Lebanon, Pa. Heavy nailer joist. 2,167,836; Aug. 1.

Groák, Josef, Olomouc, Czechoslovakia. Transfer copying material. 2,168,098; Aug. 1.

Grohn, Henry P., Chicago, Ill. Overload clutch. 2,167,749; Aug. 1.

Groll, Herbert P. A., and G. Hearne, Berkeley, and J. Burgin and D. S. La France, Oakland, assignors to Shell Development Company, San Francisco, Calif. Halo-substitution of ethylene. 2,167,927; Aug. 1.

Grosse, Aristid V., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon gases. 2,167,650; Aug. 1.

Grothe, Walter. (See Starr, O. L., Grothe, and Eberhard.)

Grunebaum, Ludwig H. (See Rollmann, Hans, assignor.)

Gubler, Hans, and E. Bernasconi, assignor to firm of Society of Chemical Industry in Basle, Basel, Switzerland. Dyestuffs containing simultaneously radicals of anthraquinone dyestuffs and azo dyestuffs and making the same. 2,167,804; Aug. 1.

Güttler, Hermann, administrator. (See Müller, K. R.)

Haberstump, Alfred H. (See Avery, C. W., and Haberstump.)

Hale, Frank B., San Francisco, Calif. Periodic rotary switch. 2,167,750; Aug. 1.

Hall, Chester L., Schenectady, N. Y., assignor to General Electric Company. Coffee maker. 2,168,158; Aug. 1.

Hall, Selden H., Poughkeepsie, assignor to The De Laval Separator Company, New York, N. Y. Liquid flowing regulating means. 2,167,837; Aug. 1.

Hammer, Otto, assignor to Security Engineering Co., Inc., Whittier, Calif. Reamer body. 2,168,017; Aug. 1.

Hammond Paint & Chemical Co. (See Faloon, Dalton B., assignor.)

Hand, Edwin B., Cleveland Heights, Ohio. Sign. 2,167,838; Aug. 1.

Handforth, Stanley L. (See Carter, F. E., Handforth, and Kirst.)

Hankins Container Company, The. (See Brooks, Paul J., assignor.)

Hankins Container Company, The. (See Hayes, Harold J., assignor.)

Hanny, Charles E., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn. Electrical terminal. 2,168,016; Aug. 1.

Hanson, Barney, Miami, Fla. Interlocking flashing plate. 2,168,204; Aug. 1.

Hanson, Victor F., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Electric arc apparatus for producing chemical reactions. 2,167,976; Aug. 1.

Harford, Charles G., Wollaston, assignor to Arthur D. Little, Inc., Cambridge, Mass. Buttermilk casein product. 2,167,751; Aug. 1.

Harford, Charles G., Wollaston, assignor to Arthur D. Little, Inc., Cambridge, Mass. Casein coating composition and preparing the same. 2,167,752; Aug. 1.

Harkins, Henry H., River Edge, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Chemically resistant structure. 2,167,716; Aug. 1.

Harmon, F. S., Manufacturing Company. (See Bennes, Adolph B., assignor.)

Harmon Manufacturing Company et al. (See Bennes, Adolph B., assignor.)

Harris, Carl C., Orange, Mass. Pencil clip. 2,167,717; Aug. 1.

Harris, John M., Jr., and C. A. Matherne, Baton Rouge, La., assignors to Standard Oil Development Company. Apparatus for subjecting liquids to silent electric discharge. 2,167,718; Aug. 1.

Harsch, John W., Gwynedd, assignor to Leeds & Northrup Company, Philadelphia, Pa. Heat treating system. 2,168,028; Aug. 1.

Harten, Karl P., Eichen, and A. Lerg, Kreuztal, assignors to Hüttenwerke Siegerland Aktiengesellschaft, Siegen, Westfalen, Germany. Machine for receiving and conveying into and out of the pickling tanks, piles of sheet billets, semifinished rolled products, sheets, and other material to be pickled. 2,168,205; Aug. 1.

Hartt, Robert A., Lynn, Mass. Feeding mechanism for tape applying machines. 2,168,159; Aug. 1.

Hartz, Barge L., Bethesda, Md. Refrigerating delivery vehicle. 2,168,018; Aug. 1.

Harvey, Corwin S. (See Smith, C. B., and Harvey.)

Hastings, Arthur C., Jr., South Yarmouth, Mass. Spark plug. 2,168,206; Aug. 1.

Haultain, Herbert E. T., Toronto, Ontario, Canada. Apparatus for classifying finely granulated solids according to size. 2,168,207; Aug. 1.

Haupt, Walter H., Ludlow, assignor to The Kelley-Koett Manufacturing Company, Inc., Covington, Ky. Spring counterbalance. 2,168,209; Aug. 1.

Hawes, John H., London, England. Pipe or tube bending machine. 2,168,123; Aug. 1.

Hawkins, Elvin V., and S. Indermuhle, Ellensburg, Wash. Plant and insect eradicator. 2,168,099; Aug. 1.

Hawksley, Ralph G., Cranston, R. I. Utility table for motor vehicles. 2,168,210; Aug. 1.

Hawley, Don M. (See Bauer, Hans F. and J. V., and Hawley.)

Hawtin, Phillip R. (See Rooney, J. H., and Hawtin.)

Haycock, John. (See Fink, H. A., and Haycock.)

Hayes, Harold J., East Orange, N. J., assignor to The Hankins Container Company, Cleveland, Ohio. Container. 2,167,947; Aug. 1.

Hazeltine Corporation. (See Case, Nelson P., assignor.)

Headlee, John F. (See Witting, A. G., and Headlee.)

Hearne, George. (See Groll, H. P. A., Hearne, Burgin, and La France.)

Hedgcock, William C., Wilmette, assignor to American Steel Foundries, Chicago, Ill. Car truck and clasp brake assembly. 2,168,291; Aug. 1.

Heidinger, Louis C., Belleville, Ill. Rat trap. 2,168,065; Aug. 1.

Heisel, Paul, and A. Hendschel, Gersthofen, near Augsburg, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing monohalogenation products. 2,168,260; Aug. 1.

Held, Gottfried, Bern, Switzerland. Mechanism for manufacturing cylindrical containers out of fibrous material suspended in a liquid. 2,167,753; Aug. 1.

Hemphill Company. (See Lawson, R. H., and Cloutier, assignors.)

Henderson, Elting, Huntington Park, J. B. Reddick, Los Angeles, and B. M. Laulhere, Walnut Park, assignors to The Fluor Corporation, Ltd., Los Angeles, Calif. Separator. 2,167,839; Aug. 1.

Hendschel, Albert. (See Heisel, P., and Hendschel.)

Hennings, Raymond A., New Orleans, La. Beverage and liquid dispenser. 2,168,211; Aug. 1.

Henry, Donald E. (See Rentschler, H. C., and Henry.)

Hepworth, Bert H., Phoenix, Ariz. Venetian blind. 2,167,840; Aug. 1.

Herfurth, Charles, and K. T. Schledorn, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Cambering mechanism for grinding machines. 2,167,948; Aug. 1.

Herold, Lawrence C., Lakewood, Ohio. Wide brush section. 2,167,949; Aug. 1.

Hertzberg, Harry, assignor to Hertzberg Patents, Inc., New York, N. Y. Dish mop. 2,167,841; Aug. 1.

Hertzberg Patents, Inc. (See Hertzberg, Harry, assignor.)

Hess, Alexander M., Jamaica, N. Y. Forming pleats. 2,167,651; Aug. 1.

Hewel, Frank B., Pittsburgh, Pa. Cross chain repair link. 2,168,029; Aug. 1.

Hibbard, E. W., et al. (See Wilsey, Irven H., assignor.)

Hicks, Glenn H., assignor to Acme White Lead & Color Works, Detroit, Mich. Synthetic metallic enamel. 2,168,212; Aug. 1.

Hill, Francis S., Denver, Colo. Rotary beet topper. 2,167,754; Aug. 1.

Hillberg, Bror, assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Spreader for concrete forms. 2,167,888; Aug. 1.

Hinckley-Myers Company. (See Graham, G. M., and MacMillan, assignors.)

Hinde & Dauch Paper Company, The. (See Roberts, Paul, assignor.)

Hinman, Albert H., Florida City, Fla. Tomato lug filler. 2,168,100; Aug. 1.

Hoagland, Frank O., West Hartford, assignor to Niles-Bement-Pond Company, Hartford, Conn. Bench lathe. 2,167,755; Aug. 1.

Hobbs, John W., Corporation. (See Hobbs, John W., assignor.)

Hobbs, John W., assignor to John W. Hobbs Corporation, Springfield, Ill. Automatic switch lamp socket. 2,167,756; Aug. 1.

Hoch, Fred W., Forest Hills, N. Y. Testing for ink requirements. 2,167,652; Aug. 1.

Hochwalt, Carroll A., and M. Plunguian, Dayton, assignors to The Mead Corporation, Chillicothe, Ohio. Production of phenol-aldehyde-lignin resins. 2,168,160; Aug. 1.

Holbrook, Francis C., Brooklyn, and J. C. Zengerle, Floral Park, N. Y. Mechanism for charging refuse-burning furnaces. 2,167,653; Aug. 1.

Hollingsworth, Joseph S. (See Fulmer, F. P., and Hollingsworth.)

Holmes, Harrison H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Explosive composition. 2,168,030; Aug. 1.

Holy, Joe L., West, Tex. Tractor cultivator. 2,168,213; Aug. 1.

Hoover Company, The. (See Becker, Bernard C., assignor.)

Hoover Company, The. (See Nelson, Rudolph S., assignor.)

Hoover Company, The. (See Taylor, Charles H., assignor.)

Hopff, Heinrich, Ludwigshafen-on-the-Rhine, H. Kellermann, Mannheim, and A. Freytag, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of carboxylic acid amides. 2,168,161; Aug. 1.

Hornibrook, Howard G., Minneapolis, Minn. Sealed container convertible to pail. 2,167,977; Aug. 1.

Hothersall, John M., Brooklyn, assignor to American Can Company, New York, N. Y. Securing soft metal spouts to containers. 2,167,654; Aug. 1.

Houdry, Eugène J., Rosemont, and R. S. Vose, Ridley Park, Pa., assignors to Houdry Process Corporation, Wilmington, Del. Promotion of chemical reactions. 2,167,655; Aug. 1.

Houdry Process Corporation. (See Houdry, E. J., and Vose, assignors.)

Houdry Process Corporation. (See Vose, Richard S., assignor.)

Hovden, Olav. (See Plaman, A. J., Thompson, and Hovden.)

Howe, Wilfred H., Winchester, assignor, by mesne assignments, to The Foxboro Company, Foxborough, Mass. Automatic control of electric power. 2,168,031; Aug. 1.

Hulse, Ray D., New Bloomfield, Mo. Tail straightener. 2,167,889; Aug. 1.

Hummel, Oscar, Stuttgart-Rohr, Germany. Apparatus for mixing different or similar substances. 2,167,805; Aug. 1.

Hunna, Emerich, et al., executors. (See Lilienfeld, Leon.)

Hurn, James E., La Porte, Ind., assignor to De Luxe Products Corporation. Oil purifying device. 2,168,124; Aug. 1.

Hurn, James E., La Porte, Ind., assignor to De Luxe Products Corporation. Fuel oil filter cartridge. 2,168,125; Aug. 1.

Hurst, George P., et al. (See Monner, Ray J., assignor.)

Hutaff, George H., Jr., Wilmington, N. C. Cigarette case and dispenser. 2,168,214; Aug. 1.

Hüttenwerke Siegerland Aktiengesellschaft. (See Harten, K. P., and Lerg, assignors.)

Hydraulic Press Corporation, The. (See Ernst, Walter, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Balle, G., and Schulz, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Baehr, H., and Braus, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Heisel, P., and Hendschel, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Hopff, H., Kellermann, and Freytag, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Lenchs, Otto, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Meyer, Oskar, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Siefert, Fritz, assignor.)

Illinois Railway Equipment Company. (See Johnson, Malcolm S., assignor.)

Indermuhle, Sam. (See Hawkins, E. V., and Indermuhle.)

Industrial Rayon Corporation. (See Lovett, Louis E., assignor.)

Ingersoll Milling Machine Company, The. (See Oberhoffken, Alexander, assignor.)

Industrial Rayon Corporation. (See Samerdyke, Fred J., assignor.)

International Harvester Company. (See Johnston, E. A., Baker, and Rogers, assignors.)

Isham, Robert M., assignor of three-fourths to W. B. Pine, Okmulgee, Okla. Producing light hydrocarbons. 2,168,261; Aug. 1.

Jackes-Evans Manufacturing Company. (See Jackes, S. F., and Gehne, assignors.)

Jackes, Stanley F., St. Louis, and R. Gehne, Pine Lawn, assignors to Jackes-Evans Manufacturing Company, St. Louis, Mo. Flue bushing. 2,168,066; Aug. 1.

Jackson, John R., Boston, Mass. Tool post and holder. 2,168,162; Aug. 1.

Jackson, Keene S., Springfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electron ray voltage indicator. 2,167,842; Aug. 1.

Jackson, Paul S., assignor to Rockford Machine Tool Company, Rockford, Ill. Hydraulic machine tool. 2,167,890; Aug. 1.

Jakosky, John Jay, Los Angeles, Calif. Method and apparatus for electrical exploration of subsurface. 2,167,950; Aug. 1.

Janes, Clinton S., Elmira, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Engine starter drive. 2,167,891; Aug. 1.

Jänicke, Hermann, Lochham, near Munich, Germany. Operation of internal combustion engines. 2,167,951; Aug. 1.

Japolsky, Nicholas, Highgate, London, England. Electric transmission system. 2,168,032; Aug. 1.

Jaxon Farm Equipment Company. (See Martin, James M., assignor.)

Jelen, Fredrick C., Anniston, Ala., assignor, by mesne assignments, to Monsanto Chemical Company. Manufacture of tetra alkali-metal pyrophosphate and chlorine. 2,167,757; Aug. 1.

Jenks, Harry N., Berkeley, Calif. Apparatus for biologic purification of liquids. 2,168,208; Aug. 1.

Jennerich, Balthasar, Cologne, Germany. Insect trap. 2,167,978; Aug. 1.

Jewett, Maurice G. (See Welser, B., and Jewett.)

Johnson, Albert M., and W. M. Fairbairn, assignors to Barnes Drill Co., Rockford, Ill. Method and machine for honing cylindrical surfaces. 2,167,758; Aug. 1.

Johnson, Alfred E., Woodstock, Ill. Accelerator-controlling device. 2,167,843; Aug. 1.

Johnson Automatic Sealer Co. (See Richard, Charles F., assignor.)

Johnson, Carl V., assignor to Bendix Products Corporation, South Bend, Ind. Shock strut. 2,167,928; Aug. 1.

Johnson Corporation, The. (See Monroe, Rollo O., assignor.)

Johnson, George F. (See McAllister, S. H., and Johnson.)

Johnson, Malcolm S., assignor to Illinois Railway Equipment Company, Chicago, Ill. Brake hanger retainer. 2,167,979; Aug. 1.

Johnson, Ralph P. (See Koller, L. R., and Johnson.)

Johnson, Russell E., Mishawaka, Ind. Automobile. 2,167,929; Aug. 1.

Johnston, Edward A., Chicago, D. B. Baker, Riverside, and C. R. Rogers, Oak Park, assignors to International Harvester Company, Chicago, Ill. Transmission gearing and power take-off. 2,168,033; Aug. 1.

Jones, Paul S., assignor to Jones & Vining, Inc., Brockton, Mass. Last. 2,168,292; Aug. 1.

Jones, Percy R., Lakeville, assignor of one-third to B. Osborne, Clinton, Mass., and one-third to M. H. Van Bergh, New York, N. Y. Flexible pipe or tubing. 2,168,067; Aug. 1.

Jones & Vining, Inc. (See Jones, Paul S., assignor.)

Jordan, Alice M., executrix. (See Playfair, A. F., Brisbin, and Jordan.)

Jordan, Lee C., Peoria, Ill. Valve. 2,167,952; Aug. 1.

Jordan, Rowland C. (See Playfair, A. F., Brisbin, and Jordan.)

Judson, Alfred O. (See Pilliod, G. L., and Judson.)

Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft. See Gausmann, Carl, assignor.)

Junkers Flugzeug- und Motorenwerke Aktiengesellschaft. (See Mader, Otto, assignor.)

K-D Manufacturing Company. (See Kulp, Harry W., assignor.)

Kaegi, Anna E., special administratrix. (See Kaegi, Emil M.)

Kaegi, Emil M., deceased, by A. E. Kaegi, Wauwatosa, special administratrix, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Vapor electric device. 2,167,844; Aug. 1.

Kalbfleisch, Oscar C., Mansfield, Ohio. Tire spreader. 2,167,981; Aug. 1.

Kamenarović, Leone, assignor to Fabbrica Italiana Magneti Marelli Societa Anonima, Milan, Italy. Public address system. 2,168,163; Aug. 1.

Kammerer, Fred W., New York, N. Y. Metal weather stripping. 2,167,656; Aug. 1.

Kane, Henry J., New Britain, Conn., assignor to Billings & Spencer Company. Pipe vise. 2,168,126; Aug. 1.

Karfiol, Edward, Great Neck, N. Y. Pleated shelf edging. 2,167,759; Aug. 1.

Karnes, James C., Buffalo, N. Y. Periscope. 2,167,657; Aug. 1.

Kasen, Daniel, Newark, N. J. Molding polished casein material and polished casein articles. 2,168,127; Aug. 1.

Keitel, Hans J., assignor to Dornier-Werke G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany. Hydraulic transmission system. 2,168,215; Aug. 1.

Kellermann, Hans. (See Hopff, H., Kellermann, and Freytag.)

Kelley-Koett Manufacturing Company, The. (See Haupt, Walter H., assignor.)

Kendall Company, The. (See Eustis, W., and Vint, assignors.)

Kende, George. (See Githens, O. W., Kende, and Porter.)

Kennedy, Raymond E., and R. W. Bartle, New Albany, Ind. Air pump for windshields. 2,168,216; Aug. 1.

Kent, Raymond L., Marston Green, near Birmingham, and M. D. Scott, Bury Green, Cheshunt, England. Liquid fuel feeding device for internal combustion engines. 2,167,892; Aug. 1.

Kerber, Frank J., Chicago, Ill. Multistage window chair. 2,167,982; Aug. 1.

Kervarrec, Bernard, Paris, France. Portable derrick. 2,168,128; Aug. 1.

Keuffel & Esser Company. (See Bernegau, Carl M., assignor.)

Keystone Drum Company. (See McLain, B., and Voland, assignors.)

Kiecksee, Max, Berlin-Wilmersdorf, assignor to Meco-Brennkraft-Maschinen G. m. b. H., Frankfort-on-the-Main, Germany. Ramming device on the Diesel principle. 2,167,983; Aug. 1.

Kiesel, William F., Jr., Hollidaysburg, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Railway car truck. 2,168,293; Aug. 1.

Kiesel, William F., Jr., Hollidaysburg, assignor to The Pennsylvania Railroad Company, Philadelphia, Pa. Railway car brake mechanism. 2,168,294; Aug. 1.

Killefer Manufacturing Corporation. (See Mitchell, Rollie H., assignor.)

King, Harry C., Quincy, Mass, assignor to United Shoe Machinery Corporation, Paterson, N. J. Manufacture of shoes. 2,167,658; Aug. 1.

Kingsley, Donald G. (See Oftedal, P. R., and Kingsley.)

Kinnear, Samuel E. (See Lloyd-Jones, T. C., and Kinnear.)

Kinney, Raymond E., Topeka, Kans. Wrist strap note pad. 2,167,893; Aug. 1.

Kirschbraun, Lester, assignor to The Patent and Licensing Corporation, New York, N. Y. Shingle. 2,168,217; Aug. 1.

Kirschbrann, Lester, assignor to The Patent and Licensing Corporation, New York, N. Y. Mastic shingle. 2,168,218; Aug. 1.

Kirst, William E. (See Carter, F. E., Handforth, and Kirst.)

Kissel, Michael S., Pittsburgh, Pa. Shoetree. 2,168,034; Aug. 1.

Kliteat, Alfred J., Limpsfield, assignor to Flexiback Machinery Company, Limited, Battersee, London, England. Severing device for use in bookbinding and other operations. 2,168,035; Aug. 1.

Kittredge, John W., New York, N. Y. Speed reducer. 2,168,164; Aug. 1.

Klemgard, Edwin N., and V. L. Ricketts, Martinez, assignors to Shell Development Company, San Francisco, Calif. Extreme pressure lubricant. 2,168,262; Aug. 1.

Klemm, Hanns, Boblingen, Germany, assignor to W. R. Davis, New York, N. Y. Method and apparatus for construction of aircraft and the like. 2,168,280; Aug. 1.

Klingel, Harry, and W. C. MacLennan, Rensselaer, assignors to Winthrop Chemical Company, Inc., New York, N. Y. p-Aminobenzene-sulphonamide maltoside and preparing the same. 2,167,719; Aug. 1.

Klocke, William, Woodhaven, N. Y. Extrusion process and apparatus. 2,167,845; Aug. 1.

Koehring, Roland P. (See Lignian, J. A., and Koehring.)

Koerner, Benjamin A. (See Tolberg, C. C., and Koerner.)

Koerner, Loraine I., et al. (See Tolberg, C. C., and Koerner, assignors.)

Koller, Lewis R., and R. P. Johnson, Schenectady, N. Y., assignors to General Electric Company. Control device. 2,168,165; Aug. 1.

Kooistra, Lambert, Wadsworth, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Fluid heat exchange apparatus. 2,167,659; Aug. 1.

Kotcher, Irwin, Brooklyn, N. Y. Carton capping machine. 2,167,895; Aug. 1.

Kotcher, Irwin I., Brooklyn, N. Y. Receptacle filling machine. 2,167,894; Aug. 1.

Kress, Willard C., Kenmore, assignor to J. H. Williams & Co., Buffalo, N. Y. Torque-indicating wrench. 2,167,720; Aug. 1.

Kressel, Konrad R. W. (See Rösler, E. R. A. G., Schwarting, and Kressel.)

Krissiep, Max, assignor to Textile Machine Works, Wyomissing, Pa. Braiding carrier. 2,167,930; Aug. 1.

Kulp, Harry W., assignor to K-D Manufacturing Company, Lancaster, Pa. Valve unit or valve guide puller. 2,167,897; Aug. 1.

Küppenbender, Heinz, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Roll film camera. 2,168,263; Aug. 1.

La Brie, Ludger E., Detroit, Mich., assignor to Bendix Brake Company, South Bend, Ind. Brake. 2,167,721; Aug. 1.

La Chapelle, Euclid I., Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for use in applying pressure to shoe bottoms. 2,167,806; Aug. 1.

Lafleche, Herménégilde, Casselman, Ontario, Canada. Transmission mechanism. 2,167,953; Aug. 1.

La France, Donald S. (See Groll, H. P. A., Hearne, Burgin, and La France.)

Lakenbach, Daniel, Norwich, Conn. Permanent waving device. 2,168,219; Aug. 1.

Lamb, Charles, et al. (See Dyer, Zeb A., assignor.)

Lamb, Charles, et al. (See Robinson, Slayden R., assignor.)

Land, Edwin H., Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del. Laminated light polarizer. 2,168,220; Aug. 1.

Land, Edwin H., Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del. Laminated light polarizer. 2,168,221; Aug. 1.

Lanes, Nathan, Brooklyn, N. Y. Apparatus for applying adhesive to labels and the like. 2,168,222; Aug. 1.

Larrecq, Anthony J., Beach Bluff, Mass., assignor to General Electric Company. Heat exchange apparatus. 2,168,166; Aug. 1.

Laulhere, Bernard M. (See Henderson, E., Reddick, and Laulhere.)

Lauve, Louis L., Jr., Baltimore, Md. Illuminated sign. 2,167,660; Aug. 1.

Lauve, Louis L., Jr., Baltimore, Md. Illuminated sign. 2,168,223; Aug. 1.

Lawson, Robert H., Pawtucket, and A. N. Cloutier, Lonsdale, assignors to Hemphill Company, Central Falls, R. I. Knitting machine for incorporating an elastic thread or yarn in a fabric. 2,168,224; Aug. 1.

Laystrom, Carl A. (See Barna, Joseph W., assignor.)

Lee, Charles L., deceased, by L. J. Lee, executrix, assignor to The National Cash Register Company, Dayton, Ohio. Accounting machine. 2,167,760; Aug. 1.

Lee Leefe J., executrix. (See Lee, Charles L.)

Leeds & Northrup Company. (See Harsch, John W., assignor.)

Leffler, Carl, and L. B. Gosselin, Greeley, Colorado. Machine for destroying grasshoppers or the like. 2,167,923; Aug. 1.

Leighton, John W., Port Huron, Mich. Individual suspension. 2,167,984; Aug. 1.

Lemming, John C., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Sizing porous metal bearings. 2,168,300; Aug. 1.

Lemming, John Conrad, and J. H. Davis, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Sizing porous metal bushings. 2,168,301; Aug. 1.

Lerch, William B. (See Crites, W. J., and Lerch.)

Lerg, Arnold. (See Harten, K. P., and Lerg.)

Lesponne, Alban, New York, N. Y. Grapefruit implement. 2,167,898; Aug. 1.

Leuchs, Otto, Wuppertal-Elberfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Preparing alkyl and aralkyl halides. 2,168,167; Aug. 1.

Levay, Eugene, New York, N. Y. Vibrating propelling device. 2,167,985; Aug. 1.

Lever Brothers Company. (See Andersen, Carl N., assignor.)

Leverick, Frank, Blaby, near Leicester, assignor to Follsain Syndicate Limited, Westminster, London, England. Making alloys of copper and nickel. 2,168,129; Aug. 1.

Levin, Bessie M., New York, and I. Fleischmann, Bronx, N. Y. Tooth brush. 2,167,761; Aug. 1.

Lewin, Hans, Hamburg, Germany. Photographic image and method of and apparatus for viewing the same. 2,168,225; Aug. 1.

Lieb, William, Detroit, Mich. Safety bottle breaker. 2,168,226; Aug. 1.

Lignian, Jean A., and R. P. Koehring, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich. Fluid seal assembly. 2,167,986; Aug. 1.

Lignian, Jean A., Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich. Sizing porous metal bearings. 2,168,227; Aug. 1.

Lilienfeld, Antonette. (See Lilienfeld, Leon.)

Lilienfeld, Leon, deceased, Vienna, Austria; P. Abel, or in the case of his inability to act, E. Hunna, executor, and A. Lilienfeld, sole hear, Vienna, Austria (Germany). Nitrogen-halogen organic bodies and making same. 2,167,661; Aug. 1.

Lilienfeld, Leon, deceased, Vienna, Austria; P. Abel, Vienna, Austria (Germany), or in the case of his inability to act, E. Hunna, Vienna, Austria, executor, and A. Lilienfeld, Vienna, Austria (Germany), sole heir. Halogenated amines and making them. 2,167,807; Aug. 1.

Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. Sideband modulation. 2,167,722; Aug. 1.

Lingle, Noma F., Flint, Mich. Sifter. 2,168,130; Aug. 1.

Lippincott, Samuel B., Terre Haute, assignor to Purdue Research Foundation, La Fayette, Ind. Making hydroxamic acids. 2,168,305; Aug. 1.

Little, Arthur D., Inc. (See Harford, Charles G., assignor.)

Litty, Paul, Leipzig, Germany. Producing a testing thread. 2,167,808; Aug. 1.

Lloyd-Jones, Thomas C., and S. E. Kinnear, Modesto, Calif. Harvester. 2,167,980; Aug. 1.

Lockwood, Lloyd D., Madison, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Getter and the application thereof. 2,167,762; Aug. 1.

Lovett, Louis E., Cleveland Heights, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Reel. 2,167,662; Aug. 1.

Loweke, Aaron A., assignor, by mesne assignments, to Bendix Home Appliances, Inc., Detroit, Mich. Washing and centrifuging textiles. 2,168,068; Aug. 1.

Lübeck, Carl H. O., Islingehill, Lidingo, Sweden. Electric alkaline accumulator. 2,167,809; Aug. 1.

Luce, Milton A., San Francisco, assignor of one-half to M. W. Dobrzensky, Oakland, Calif. Front end suspension. 2,167,763; Aug. 1.

Lummus Company, The. (See Smoley, Eugene R., assignor.)

Lyford, Robert E., Torrington, Conn, assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,167,663; Aug. 1.

Lytle, William O., New Kensington, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Glass building block. 2,167,764; Aug. 1.

MacArthur, Charles J., Glen Ridge, N. J. Web-fed printing press. 2,168,229; Aug. 1.

MacArthur, Roger A., Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company. Suspension of magnesium hydroxide and material and process for making same. 2,168,228; Aug. 1.

Mackay Radio and Telegraph Company. (See Alford, Andrew, assignor.)

Mackay Radio & Telegraph Company. (See Pratt, Haraden, assignor.)

Mackley, Alfred H., Bedford, England. Web renewing. 2,167,810; Aug. 1.

MacLennan, William C. (See Klingel, H., and MacLennan.)

Mader, Otto, Dessau-Ziebigk, assignor to Junkers Flugzeug- und Motorenwerke Aktiengesellschaft, Dessau, Germany. Internal combustion engine. 2,168,131; Aug. 1.

Magee, Carl C. (See McGay, J. B., Nicholson, and Magee.)

Mall, Arthur W., Chicago, Ill. Vibrator. 2,167,987; Aug. 1.

Maniscalco, Pietro, Toledo, Ohio. Compressor. 2,168,036; Aug. 1.

Mankoff, Henry J., Wichita, Kans. Bolting means for grinding machines. 2,167,954; Aug. 1.

Munn, John, assignor to Goulds Pumps, Inc., Seneca Falls, N. Y. Separation apparatus. 2,167,988; Aug. 1.

Marks, Alvin M., Whitestone, N. Y. Light polarizing device. 2,167,899; Aug. 1.

Marsack, Max, assignor, by mesne assignments, to Marsack Patents Corporation, Milwaukee, Wis. Mattress. 2,168,037; Aug. 1.

Marsack Patents Corporation. (See Marsack, Max, assignor.)

Marshall, Nick J., Sidney, Ohio. Trap. 2,168,132; Aug. 1.

Marshall, William B., assignor to Chain Belt Company, Milwaukee, Wis. Clarifying apparatus. 2,168,264; Aug. 1.

Martin, Floyd R. (See Anderson, R. L., and Martin.)

Martin, James M., assignor to Jaxon Farm Equipment Company, Jackson, Mich. Tractor coupling. 2,168,265; Aug. 1.

Martin, John N., Tusa, Okla. Piston. 2,167,811; Aug. 1.

Martin-Parry Corporation. (See Small, Frederick M., assignor.)

Martin, Thomas B., Horseheads, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Variable speed gearing. 2,167,846; Aug. 1.

Matherne, Clarence A. (See Harris, J. M., Jr., and Matherne.)

Matthews, Calvin M., Hampton, Va. Motor vehicle construction. 2,167,664; Aug. 1.

Matthews, George A., assignor to The Detroit Edison Company, Detroit, Mich. Circuit breaker. 2,167,665; Aug. 1.

Marvel Equipment Corporation. (See Roethel, John H., assignor.)

Matthael, Curt, Offenbach-on-the-Main, Germany. Closing device for belt fasteners. 2,168,168; Aug. 1.

Mayer, Raoul G. (See Graham, J. B., and Mayer.)

McAllister, Sumner H., Lafayette, and G. F. Johnson, assignors to Shell Development Company, San Francisco, Calif. Purification of relatively water insoluble derivatives of fatty acids. 2,167,931; Aug. 1.

McDowell, Samuel J., Metuchen, N. J., assignor to General Ceramics Company,. Ceramic body and making the same. 2,168,230; Aug. 1.

McElwain, William H., assignor of one-half to P. M. Clark, and one-half to J. M. Eckley, Denver, Colo. Method and mechanism for windrowing. 2,168,266; Aug. 1.

McFadden, Ross M. (See Yates, George, assignor.)

McGay, John B., and G. E. Nicholson, Tulsa, and C. C. Magee, Oklahoma City, Okla. Coin-controlled time-measuring meter. 2,168,302; Aug. 1.

McGee, George R., Sarnia Township, Ontario, Canada. Stoker. 2,167,955; Aug. 1.

McGee, Richard T., assignor to The Consolidated Expanded Metal Companies, Wheeling, W. Va. Structural member. 2,167,666; Aug. 1.

McGowan, Michael E., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Filament and making. 2,167,765; Aug. 1.

McIntosh, Arthur C., et al. (See Monner, Ray J., assignor.)

McLain, Benjamin, and M. G. Voland, Butler, assignors to Keystone Drum Company, Pittsburgh, Pa. Container and making the same. 2,168,231; Aug. 1.

McMechan, Maurice H., assignor to Western Products Company, Yakima, Wash. Refrigeration. 2,167,667; Aug. 1.

McMillan, Charles W. (See Graham, G. M., and McMillan.)

Mead Corporation, The. (See Hochwalt, C. A., and Plungulan, assignors.)

Meade, Grover H. (See Gillham, D. H., and Meade.)

Meakin, Edgar T., San Francisco, Calif. Preparing fish meal for storage and shipping. 2,167,723; Aug. 1.

Meakin, Edgar T., San Francisco, Calif. Mill. 2,167,900; Aug. 1.

Meco-Brennkraft-Maschinen G. m. b. H. (See Kliecksee, Max, assignor.)

Messier, Aime C., Chicago, Ill. Salvage device. 2,167,989; Aug. 1.

Messinger Devices, Incorporated. (See Messinger, Lester H., Jr., assignor.)

Messinger, Lester H., Jr., Trumbull, assignor to Messinger Devices, Incorporated, Bridgeport, Conn. Motor vehicle control. 2,168,232; Aug. 1.

Metal Hydrides Inc. (See Alexander, Peter P., assignor.)

Meyer, August A., River Forest, Ill. Composition for preserving flowers. 2,168,304; Aug. 1.

Meyer, Oskar, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Treating phosphatic ores. 2,168,169; Aug. 1.

Middleby-Marshall Oven Co. (See Shonwald, William, assignor.)

Miller, Andrew E. (See Shoemaker, L. A., and Miller.)

Miller, Elbert S., Jellico, Tenn. Coupling. 2,168,101; Aug. 1.

Miller, I., & Sons, Inc. (See Wertheim, Adolph, assignor.)

Miller, Thomas O., San Antonio, Tex. Unit and multiple delivery coin holder. 2,167,668; Aug. 1.

Miller, Willard J., Detroit, Mich. Trailer. 2,168,069; Aug. 1.

Mills, Lindley E. (See Coleman, G. H., Mills, and Moore.)

Millspaugh, William H., Sandusky, Ohio. Roll, specially suitable for use in paper making machine. 2,168,233; Aug. 1.

Mirfield, George E., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Apparatus for rotating and shaping electrodes of electric welding machines. 2,167,766; Aug. 1.

Mishler, Earnest W., assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio. Electrode scraping and dressing apparatus for welding machines. 2,167,767; Aug. 1.

Mitchell, Rollie H., Huntington Park, assignor to Killefer Manufacturing Corporation, Los Angeles, Calif. Disk harrow. 2,167,768; Aug. 1.

Mittag, Albert H., Schenectady, N. Y., assignor to General Electric Company. Control system. 2,168,170; Aug. 1.

Molin, Karl T. (See Smith, R. E., and Molin.)

Moloney, Raymond T. (See Breitenstein, Charles J., assignor.)

Molyneux, Lee B., Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Sealing structure. 2,167,669; Aug. 1.

Monner, Ray J., assignor of one-third to A. C. McIntosh and one-third to G. P. Hurst, Rapid City, S. Dak. Exposure meter. 2,168,133; Aug. 1.

Monroe, Rollo O., assignor to The Johnson Corporation, Three Rivers, Mich. Water-level control. 2,168,267; Aug. 1.

Monsanto Chemical Company. (See Beaver, David J., assignor.)

Monsanto Chemical Company. (See Jelen, Frederick C., assignor.)

Montblanc-Simplo Gesellschaft mit beschränkter Haftung. (See Rosler, E. R. A. G., Schwarting, and Kressel, assignors.)

Moore, Coleman B., Carroll Park, assignor to The Brown Instrument Company, Philadelphia, Pa. Measuring apparatus. 2,168,038; Aug. 1.

Moore, Garnett V. (See Coleman, G. H., Mills, and Moore.)

Morin, George G., and E. J. Carleton, Holyoke, Mass.; said Carleton assignor to said Morin. Dipper trip and tag line winder. 2,167,769; Aug. 1.

Morrill, Richard R., San Jose, Calif. Brooder. 2,167,956; Aug. 1.

Morse, Arthur H., assignor to The Baldwin Company, Cincinnati, Ohio. Piano action connection. 2,167,670; Aug. 1.

Morse Bros. Machinery Company. (See Weinig, Arthur J., assignor.)

Morse, James W., Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif. Strainer box. 2,168,039; Aug. 1.

Morton, Lysle W. (See Sabbah, C. A., and Morton.)

Moss, Jane, New York, N. Y. Corsage pin. 2,167,671; Aug. 1.

Mullenix, Chester S., Mount Oliver, and J. G. Windeknecht, Brentwood, Pa. Method and means for loading containers in carriers. 2,167,770; Aug. 1.

Müller, Karl R., deceased, Neugersdorf, by H. Güttler, administrator, assignor to Firma A. G. vorm. Seidel & Naumann, Dresden, Germany. Escapement device for typewriting machines. 2,167,812; Aug. 1.

Murphy, Edward A., Wylde Green, Birmingham, G. W. Trobridge, Sutton Coldfield, and J. A. Andrews, West Quinton, Birmingham, assignors to Dunlop Rubber Company Limited, London, England. Production of hollow articles. 2,167,724; Aug. 1.

Murray Corporation of America, The. (See Avery, Clarence W., assignor.)

Murray Corp. of America, The. (See Avery, C. W., and Haberstump, assignors.)

Murray, Thomas E., Jr., Brooklyn, N. Y. Tubular element for boiler walls. 2,167,901; Aug. 1.

N. V. Philips' Gloeilampenfabrieken. (See de Vries, G., and von Lindern, assignors.)

Nabors, William C., Mansfield, La. Vehicle body. 2,168,268; Aug. 1.

Nallinger, Fritz, Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Device for adjusting the ignition timing of internal combustion engines. 2,167,902; Aug. 1.

Nast, Paul H., Royal Oak, Mich., assignor to Sullivan Machinery Company. Drill bit. 2,168,102; Aug. 1.

National Cash Register Company. (See Goldberg, Maximilian M., assignor.)

National Cash Register Company, The. (See Green, Charles W., assignor.)

National Cash Register Company, The. (See Lee, Charles L., assignor.)

National Cash Register Company, The. (See Neureiter, Hubert, assignor.)

National Drug Company, The. (See Paisley, E. S., and Peters.)

National Lead Company. (See Alessamdroni, Hugh V., assignor.)

National Tube Company. (See Graham, J. B., and Mayer, assignors.)

Nebel, Walter, Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Coating composition. 2,168,040; Aug. 1.
Neidich, Samuel A., Burlington, N. J., assignor, by mesne assignments, to Underwood Elliott Fisher Company, New York, N. Y. Typewriter ribbon. 2,167,990; Aug. 1.
Nelson, Rudolph S., Larchmont, N. Y., assignor to The Hoover Company, North Canton, Ohio. Absorption refrigerating system. 2,167,903; Aug. 1.
Neureiter, Hubert, Essen-Ruhr, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Repeat mechanism for cash registers and like machines. 2,167,771; Aug. 1.
New Process Rayon, Inc. (See Serinis, Neo S., assignor.)
Nicholson, George E. (See McGay, J. B., Nicholson, and Magee.)
Nicolle, Arthur V., Twickenham, England. Piston. 2,168,103; Aug. 1.
Niles-Bement-Pond Company. (See Hoagland, Frank O., assignor.)
Niles-Bement-Pond Company. (See Whitehead, A. G., and Raber, assignors.)
Nomar, Louis N., Charleston, W. Va. Sub-machine gun. 2,167,672; Aug. 1.
Norton Company. (See Beth, Hugo W. H., assignor.)
Norton Company. (See Sanford, Baalis, assignor.)
Nykamp, Louis E., assignor to Grand Rapids Fibre Cord Company, Grand Rapids, Mich. Spool. 2,167,957; Aug. 1.
Oberhoffken, Alexander, assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Machine tool. 2,167,673; Aug. 1.
Offutt, Harold H., Winchester, assignor to Godfrey L. Cabot, Inc., Boston, Mass. Manufacture of carbon black. 2,167,674; Aug. 1.
Oftedal, Philip R., and D. G. Kingsley, Chicago, Ill. Threshold. 2,167,958; Aug. 1.
Oglesby, David E. (See Willis, Elijah J., assignor.)
O'Grady, Frederick T., Flushing, N. Y. Color motion picture projection. 2,168,041; Aug. 1.
O'Grady, Frederick T., Flushing, N. Y. Lens assembly for motion picture projection. 2,168,042; Aug. 1.
O'Grady, Frederick T., Flushing, N. Y. Motion picture film-advancing mechanism. 2,168,043; Aug. 1.
O'Hara, Leo Paul, Pittsburgh, Pa. Incinerator furnace. 2,168,044; Aug. 1.
Ohio Crankshaft Company, The. (See Denneen, F. S., and Dunn, assignors.)
Older, Clifford, Wilmette, Ill. Concrete expansion and contraction joint. 2,167,904; Aug. 1.
Oliver, Guy C., Glendale, Calif. Sand line core barrel. 2,167,991; Aug. 1.
Olken, Hyman, Cambridge, Mass. Game. 2,167,847; Aug. 1.
Olsen, Ole, Seattle, Wash. Balancing sticks. 2,167,992; Aug. 1.
Olson, Eric P., Brooklyn, assignor to The Diamond Match Company, New York, N. Y. Match booking machine. 2,167,922; Aug. 1.
O'Neil, George A., et al. (See Donald, Bruce L., assignor.)
Onsrud Machine Works, Inc. (See Onsrud, Rudolph F., assignor.)
Onsrud, Rudolph F., assignor to Onsrud Machine Works, Inc., Chicago, Ill. Grooving machine. 2,168,234; Aug. 1.
Orr, Chester A., and E. W. Riemenschneider, assignors to The Union Metal Manufacturing Company, Canton, Ohio. Pile foundation support. 2,168,269; Aug. 1.
Osborne, Bennison, et al. (See Jones, Percy R., assignor.)
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Size-reducing mill. 2,168,092–3; Aug. 1.
Osgood, Charles F., Claremont, N. H., assignor to Sullivan Machinery Company. Size-reducing mill. 2,168,093; Aug. 1.
Oshman, Benjamin and D., New York, N. Y. Combined brush and comb. 2,168,235; Aug. 1.
Oshman, David. (See Oshman, Benjamin and D.)
Ostenberg, Frans A., Salina, Kans. Tractor frame. 2,167,848; Aug. 1.
Otto, Albert T., & Sons, Inc., trustee. (See Grant, Albert E., assignor.)
Owen, William, Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Window construction. 2,167,772; Aug. 1.
Owens-Illinois Glass Company. (See Vogt, Clarence W., assignor.)
Pacific Can Company. (See Anderson, John F., assignor.)
Pack, Mendel N., Dayton, Ohio. Automatic volume control. 2,168,045; Aug. 1.
Packard Motor Car Company. (See Best, Frank C., assignor.)
Paisley, Ellwood S., and A. F. Peters, assignors to The National Drug Company, Philadelphia, Pa. Hypodermic-injection apparatus. 2,168,270; Aug. 1.
Palace Travel Coach Corporation. (See Arehart, David D., assignor.)
Palisca, Matthew, et al. (See Purkardhofer, G., and Battilana, assignors.)
Palmer, Joseph, New Rochelle, N. Y. Motor vehicle door lock. 2,167,675; Aug. 1.
Patent and Licensing Corporation, The. (See Kirschbraun, Lester, assignor.)
Pavelka, Friedrich, Klosterneuburg, near Vienna, assignor to Radiowerk E. Schrack A. G., Vienna, Austria. Aluminum body and making same. 2,168,134; Aug. 1.
Pavelka, Friedrich, Klosterneuburg, near Vienna, assignor to Radiowerk E. Schrack Aktiengesellschaft, Vienna, Austria. Electrolytic condenser. 2,168,135; Aug. 1.
Pawsey, Joseph L. (See Cork, E. C., and Pawsey.)
Payton, James Y., Los Angeles, Calif. Signaling device for typewriters. 2,168,070; Aug. 1.
Pechy, William, Elizabeth, N. J., assignor to American Can Company, New York, N. Y. Mechanism for synchronizing tandem machines. 2,167,676; Aug. 1.
Pedersen, Ingvald O., Pittsburgh, and C. P. Byrnes, assignors to C. P. Byrnes, Sewickley, Pa. Sheet glass and apparatus and method for manufacture thereof. 2,167,905; Aug. 1.
Peerless Novelty Company. (See Sovis, Milo, assignor.)
Pelikan, John M., Greentree, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,167,993; Aug. 1.
Pennsylvania Railroad Company, The. (See Kiesel, William F., Jr., assignor.)
Permutit Company. (See Pick, Eric, assignor.)
Perquin, Johannes N. J., Rotterdam, and H. Stokman, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Polymerization of unsaturated compounds. 2,168,271; Aug. 1.
Perry, William R., assignor to Reeves Pulley Company, Columbus, Ind. Constant tension winding control. 2,168,071; Aug. 1.
Pert, Henry G., assignor of one-half to A. B. Pickell, Kansas City, Mo. Explosive powder and manufacture thereof. 2,167,849; Aug. 1.
Peters, Allen F. (See Paisley, E. S., and Peters.)
Petersen, Valentin, West New Brighton, N. Y. Reduction drive for variable condensers. 2,167,677; Aug. 1.
Pfaff, Walter, Berlin-Zehlendorf, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk Siemensstadt near Buten, Germany. Telephone system. 2,167,725; Aug. 1.
Pfanstiehl Chemical Company. (See Chandler, Bruce C., assignor.)
Phillips Petroleum Company. (See Crites, W. J., and Lerch, assignors.)
Phillips, Willis E., assignor to Bendix Radio Corporation, Chicago, Ill. Remote control apparatus. 2,167,850; Aug. 1.
Pick, Eric, assignor to The Permutit Company, New York, N. Y. Determining air–fuel ratios, in combustion 2,168,236; Aug. 1.
Pickell, Archie B. (See Pert, Henry G., assignor.)
Picker X-ray Corporation Waite Manufacturing Division, Inc. (See Goldfield, Edwin R., assignor.)
Piel, Carl, Solingen, Germany. Casting. 2,167,906; Aug. 1.
Pierson, William D., and R. E. Walsh, assignors to The Waterbury Farrel Foundry & Machine Company, Waterbury, Conn. Adjustable spool mounting for wire spooler mechanism. 2,167,851; Aug. 1.
Pilliod Cabinet Company, The. (See Pilliod, G. L., and Judson, assignors.)
Pilliod, George L., and A. O. Judson, assignors to The Pilliod Cabinet Company, Swanton, Ohio. Necktie rack. 2,167,994; Aug. 1.
Pine, William B. (See Isham, Robert M., assignor.)
Pittsburgh Plate Glass Company. (See Lytle, William O., assignor.)
Pittsburgh Plate Glas Company. (See Owen, William, assignor.)
Plaman, Albert J., and J. T., Newhall, and O. Hovden, Fairmont, Calif. Combination tobacco receptacle and cigarette maker. 2,167,773; Aug. 1.
Plantrou, Eugène, Rouen, France. Patinating wood and other vegetable materials. 2,167,813; Aug. 1.
Plaskon Company. (See Bennett, Hubert D., assignor.)
Plaskon Company. (See Cordier, D. E., and Bolz, assignors.)
Playfair, Annie F., Winnipeg, Manitoba, G. W. F. Brisbin, Dominion City, Manitoba, and R. C. Jordan, deceased (A. M. Jordan, executrix), Winnipeg Manitoba, Canada; said A. M. Jordan, assignor to said G. W. F. Brisbin, and said A. F. Playfair. Fire extinguishing bomb and bracket therefor. 2,168,136; Aug. 1.
Plunguian, Mark. (See Hochwalt, C. A., and Plunguian.)
Plunkett, Brian, Cumberland, Md., assignor to Celanese Corporation of America. Warp stop motion. 2,167,907; Aug. 1.
Pneumatic Scale Corporation. (See Robinson, George A., assignor.)
Polacsek, Maurice, Brooklyn, N. Y. Finger rest plate on knives. 2,168,237; Aug. 1.
Polanco, Joseph, New York, N. Y. Game. 2,168,104; Aug. 1.
Polaroid Corporation. (See Land, Edwin H., assignor.)
Pollen, Charles F., Winnetka, assignor to M. H. Detrick Company, Chicago, Ill. Still construction and the like. 2,168,272; Aug. 1.
Pomernacki, Valerius, Chicago, Ill. Automotive driver's instant foot control. 2,167,959; Aug. 1.
Porter, Everett M. (See Githens, O. W., Kende, and Porter.)

Porter, Ray P., El Reno, Okla. Microprojector. 2,168,137; Aug. 1.
Posner, Nathan. (See Browne, Joseph C., assignor.)
Postal Telegraph-Cable Company (New York). (See Dalton, Harold R., assignor.)
Powell, Charles E., and C. F. Wood, Stony Brook, N. Y. Rake cleaning device. 2,168,238; Aug. 1.
Pratt, Haraden, Douglaston, assignor to Mackay Radio & Telegraph Company, New York, N. Y. Multiple V antenna suspension. 2,167,774; Aug. 1.
Preston, Edward S., Hinsdale, assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Electric appliance. 2,167,995; Aug. 1.
Price, Walter R., Minneapolis, Minn. Game device. 2,167,775; Aug. 1.
Pritz, Clement E., Chicago, Ill. Trowel. 2,167,996; Aug. 1.
Progressive Service Company. (See Deubel, Carl G., assignor.)
Punte, William F., Syracuse, and E. E. Baker, Mamaroneck, assignors to Continental Can Company, Inc., New York, N. Y. Container for adhesive tape. 2,168,105; Aug. 1.
Purdue Research Foundation. (See Lippincott, Samuel B., assignor.)
Purdy, Dolly. (See Sachs, Fred J., assignor.)
Purkardhofer, Giorgio, and G. Battilana, Triesta, Italy, assignors of two-thirds to O. De Martini, New York, and one-third to M. Palisca, Jamaica, N. Y. Solder. 2,167,678; Aug. 1.
Raber, Robert R. (See Whitehead, A. G., and Raber.)
Radford, Douglas R., et al. (See Dyer, Zeb A., assignor.)
Radford, Douglas R., et al. (See Robinson, Slayden R., assignor.)
Radio Condenser Company. (See Cramer, Russell E., assignor.)
Radio Corporation of America. (See Glans, Joseph R., assignor.)
Radio Corporation of America. (See Jackson, Keene S., assignor.)
Radio Corporation of America. (See Lindenblad, Nils E., assignor.)
Radio Corporation of America. (See Rose, George M., Jr., assignor.)
Radiowerk E. Schrack A. G. (See Pavelka, Friedrich, assignor.)
Radiowerk E. Schrack Aktiengesellschaft. (See Pavelka, Friedrich, assignor.)
Raible, Charles Greif, Shaker Heights, assignor, by mesne assignments, to The Sentry Stop-A-Draft Co., Cleveland, Ohio. Door sealing device. 2,167,776; Aug. 1.
Rausher, Arthur L., Chicago, Ill. Game. 2,168,171; Aug. 1.
Razek, Joseph. (See Bazzoni, C. B., and Razek.)
Reach, Milton B., Springfield, Mass. Water bottle. 2,168,239; Aug. 1.
Reader, Roman G., Chicago, Ill. Double sash lock. 2,167,960; Aug. 1.
Reconstruction Finance Corporation. (See Hillberg, Bror, assignor.)
Reddick, John B. (See Henderson, E., Reddick, and Laulhere.)
Reed Roller Bit Company. (See Carleton, Michael D., assignor.)
Rees, Gregory L., La Grange, assignor to Edison General Electric Appliance Company, Chicago, Ill. Cabinet rack. 2,168,172; Aug. 1.
Reeves Pulley Company. (See Perry, William R., assignor.)
Refrigeration Appliances, Inc. (See Swanson, Sven V., assignor.)
Reichert, Joseph S., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of metal percarbonates. 2,167,997; Aug. 1.
Reichmann, Heinz. (See Seligmann, Hans, assignor.)
Reid, James, New York, N. Y. Plaster base. 2,167,998; Aug. 1.
Reinecker, J. E., Aktiengesellschaft. (See Stephan, Arthur, assignor.)
Rentschler, Harvey C., and D. E. Henry, East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Photoelectric tube. 2,167,777; Aug. 1.
Reynolds Metals Company. (See Whitfield, M. G., and Sheshunoff, assignors.)
Richard, Charles F., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich. Carton bottom sealing machine. 2,167,814; Aug. 1.
Richards, Samuel G., Des Moines, Iowa. Postage stamp container and affixer. 2,167,908; Aug. 1.
Richardson, Roger W., Baton Rouge, La., assignor to Standard Oil Development Company. Thickening unsaturated oils. 2,167,726; Aug. 1.
Ricketts, Vernon L. (See Klemgard, E. N., and Ricketts.)
Riemenschneider, Edmund W. (See Orr, C. A., and Riemenschneider.)
Riley, Ralph E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Making a sponge rubber article. 2,167,999; Aug. 1.
Rinkenbach, William H., and H. A. Aaronson, Dover, N. J. Explosive. 2,167,679; Aug. 1.
Roberts, John, assignor to The Collis Company, Clinton, Iowa. Egg candler and stamper. 2,167,853; Aug. 1.
Roberts, Paul, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio. Display container. 2,168,240; Aug. 1.
Robinson, George A., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Packaging machine. 2,168,241; Aug. 1.
Robinson, Slayden R., assignor, by mesne assignments, of one-fourth to C. Lamb and one-fourth to D. R. Radford, South Pasadena, and one-half to Z. A. Dyer, Los Angeles, Calif. Cementing plug. 2,167,778; Aug. 1.
Rockford Machine Tool Company. (See Jackson, Paul S., assignor.)
Rodgers, Marion E. (See Shelton, L. C., and Rodgers.)
Roethel, John H., assignor to Marvel Equipment Corporation, Detroit, Mich. Window regulator. 2,168,242; Aug. 1.
Rogers, Clifford R. (See Johnston, E. A., Baker, and Rogers.)
Rollmann, Hans, Koeln-Marienburg, Germany, assignor, by mesne assignments, to L. H. Grunebaum, New York, N. Y. Production of shoes. 2,168,243; Aug. 1.
Rom, Palmer W., Cudahy, Wis. Vehicle signal apparatus. 2,167,680; Aug. 1.
Rooney, James H., and P. R. Hawtin, Spondon, near Derby, England, assignors to Celanese Corporation of America. Manufacture of materials having an organic basis. 2,167,909; Aug. 1.
Rose, George M., Jr., Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Electron discharge device. 2,167,852; Aug. 1.
Rosebush, Waldo E., Millwood, Wash. Moistener. 2,167,727; Aug. 1.
Rösler, Ernst R. A. G., H. W. Schwarting, and K. R. W. Kressel, assignors to the firm of Montblanc-Simplo Gesellschaft mit beschränkter Haftung, Hamburg, Germany. Fountain pen. 2,167,815; Aug. 1.
Rossander, Swanie S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dyeings with polyazo dyes. 2,167,779; Aug. 1.
Rossander, Swanie S., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Disazo dyestuffs. 2,167,780; Aug. 1.
Rottenburg, Henry, Cambridge, England. Threaded and other bolts, pins, and the like. 2,167,910; Aug. 1.
Rouse, Edward H., Thomaston, Conn., assignor to Automatic Sprinkler Company of America, Cleveland, Ohio. Retard device for automatic fire control systems. 2,168,244; Aug. 1.
Rumely, Vincent P., assignor to Crane Co., Chicago, Ill. Valve handle, wheel, and the like. 2,168,072; Aug. 1.
Ruscher, Harold, Mount Vernon, N. Y. Awning blind. 2,168,046; Aug. 1.
Rush, Raymond W. (See Rush, William R. and R. W.)
Rush, William R. and R. W., Mulberry, Kans. Knife for meat choppers. 2,168,245; Aug. 1.
Sabbah, Camil A., deceased (by W. A. Dodge, administrator), and L. W. Morton, Schenectady, N. Y., assignors to General Electric Company. Transforming means. 2,168,173; Aug. 1.
Sachs, Fred J., assignor to D. Purdy, San Mateo, Calif. Feed regulator for carburetors. 2,167,961; Aug. 1.
Safety Fastener Co. (See Wagner, Chester I., assignor.)
Sakurai, Hyosuke, Ohtakamachi, Chita District, Aichi Prefecture, Japan. Manufacturing chicken feed and the composition of the same. 2,168,138; Aug. 1.
Samerdyke, Fred J., Rocky River, assignor to Industrial Rayon Corporation, Cleveland, Ohio. Cantilever winding reel. 2,167,681; Aug. 1.
Samiran, David, Dayton, Ohio. Portable fluid segregating apparatus. 2,167,682; Aug. 1.
Sandberg, James T., Stockholm, Sweden. Whip-stitching attachment for sewing machines. 2,168,139; Aug. 1.
Sanford, Baalis, assignor to Norton Company, Worcester, Mass. Resinoid bonded abrasive article. 2,168,281; Aug. 1.
Satragno, Francesco, Rome, Italy. Device for the automatic application of antiseptic insulating ribbons to the edges of drinking glasses, cups, and the like. 2,167,728; Aug. 1.
Sauer, Hans, and O. Vierling, assignors to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Stereo-optic instrument. 2,168,273; Aug. 1.
Saur, Karl, Berlin-Reinickendorf, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschrankter Haftung, Berlin, Germany. Apparatus for measuring the quantity of fluid in vessels or containers. 2,168,106; Aug. 1.
Saurwein, Karl. (See Ulrich, H., Saurwein, Goldacker, and Maiser.)
Sauzedde, Claude, assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich. Hydrostatic brake. 2,167,683; Aug. 1.
Sawyer, Charles B., Cleveland Heights, assignor to The Brush Beryllium Company, Cleveland, Ohio. Alloy 2,167,684; Aug. 1.
Schaurte, Paul, Munich, assignor to firm: Bauer & Schaurte, Rheinische, Schrauben- und Mutternfabrik A.-G., Neuss-on-the-Rhine, Germany. Screw or screw bolt. 2,168,000; Aug. 1.
Scheldorn, Kennon T. (See Herfurth, C., and Scheldorn.)
Scherzinger, Lawrence F., Chicago, Ill. Loose leaf binder. 2,167,685; Aug. 1.
Schieferstein, Georg H., Berlin-Charlottenburg, Germany. Suspension system for vehicles. 2,167,911; Aug. 1.

Schlichting, Otto. Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y. Vat dyestuffs of the anthraquinone series. 2,168,174; Aug. 1.

Schmidt, Karl, U. S. Navy. Airplane rib. 2,167,686; Aug. 1.

Schmidt, Karl, U. S. Navy. Lacing attachment for airplane cover fabric. 2,167,687; Aug. 1.

Schnitter, Walter P., assignor to The Falk Corporation, Milwaukee, Wis. Variable speed transmission. 2,168,274; Aug. 1.

Schneider, Wilhelm. (See Wilmanns, G., and Schneider.)

Schnider, Morris, Los Angeles, Calif. Pocket toilet set container. 2,168,073; Aug. 1.

Schonwald, William, assignor to Middleby-Marshall Oven Co., Chicago, Ill. Secondary air intake for gas burners. 2,167,856; Aug. 1.

Schroeder, Arthur C., Chicago Heights, Ill. Accounts register. 2,168,001; Aug. 1.

Schulz, Georg. (See Balle, G., and Schulz.)

Schutte, August H., Westfield, N. J. Oil dewaxing. 2,168,140; Aug. 1.

Schutte, August H., Westfield, N. J. Separating wax. 2,168,141; Aug. 1.

Schutte, August H., Westfield, N. J. Separating wax. 2,168,142 Aug. 1.

Schutte, August H., Westfield, N. J. Oil dewaxing. 2,168,143; Aug. 1.

Schutte, August H., Westfield, N. J. Separating wax. 2,168,306; Aug. 1.

Schwarting, Heinrich W. (See Rösler, E. R. A. G., Schwarting, and Kressel.)

Schweitzer, Edmund O., Jr., Northbrook, Ill. Current interrupting means. 2,167,781; Aug. 1.

Schwinn, Frank W., Chicago, Ill. Cycle-saddle supporting means. 2,167,912; Aug. 1.

Scott, Murray D. (See Kent, R. L., and Scott.)

Scovill Manufacturing Company. (See Clemmons, Herbert D., assignor.)

Scowley, Andrew A., Ingleside, Ill. Hull for boats and ships. 2,167,688; Aug. 1.

Scowley, Andrew A., Ingleside, Ill. Hull for boats and ships. 2,167,689; Aug. 1.

Seaman, Charles, Jamaica Estates, N. Y. Device for making trimmings. 2,167,857; Aug. 1.

Security Engineering Co. (See Hammer, Otto, assignor.)

Seeley, Harold T., Lansdowne, Pa., assignor to General Electric Company. Synchronizing system. 2,168,175; Aug. 1.

Seligmann, Hans, Munich, Germany, assignor to H. Reichmann, Chicago, Ill. Orthopaedic foot arch support. 2,167,933; Aug. 1.

Sentry Stop-A-Draft Co., The. (See Raible, Charles G., assignor.)

Serinis, Neo S., assignor to New Process Rayon, Inc., Gloucester, N. J. Displacement dipper pump. 2,167,690; Aug. 1.

Servel, Inc. (See Lyford, Robert E., assignor.)

Servel, Inc. (See Thomas, Albert R., assignor.)

Sharp, John H., et al. (See Wilsey, Irven H., assignor.)

Shaw, Edward L., Brookline, assignor to Shawlock, Inc., Boston, Mass. Boring tool. 2,168,176; Aug. 1.

Shaw, Louis E., East Orange, N. J. Pasteboard carton. 2,167,913; Aug. 1.

Shawlock, Inc. (See Shaw, Edward L., assignor.)

Sheerr, Maurice J., Philadelphia, Pa. Hair inner lining. 2,168,002; Aug. 1.

Shell Development Company. (See de Simó, M., and Brady, assignors.)

Shell Development Company. (See Groll, H. P. A., Hearne, Burgin, and La France, assignors.)

Shell Development Company. (See Klemgard, E. N., and Ricketts, assignors.)

Shell Development Company. (See McAllister, S. H., and Johnson, assignors.)

Shell Development Company. (See Perquin, J. N. J., and Stokman, assignors.)

Shell Development Company. (See Yabroff, David L., assignor.)

Shelton, Lillian C., and M. E. Rodgers, New York, N. Y. Pastry pan. 2,167,729; Aug. 1.

Shepherd, Thomas L., London, England. Making frothed cellular, or spongelike product of colloidal origin. 2,168,246; Aug. 1.

Sheppard, Richard H., Hanover, Pa. Valve depressing mechanism. 2,167,854; Aug. 1.

Sherwin-Williams Company, The. (See Svendsen, Svend S., assignor.)

Sheshunoff, Victor. (See Whitfield, M. G., and Sheshunoff.)

Shoemaker, Louis A., Carleton, Mich., and A. E. Miller, Terre Haute, Ind.; said Miller assignor to said Shoemaker. Cover construction. 2,167,691; Aug. 1.

Sibley, Charles R., Marblehead, assignor to Sibley-Pym Corporation, Lynn, Mass. Winding machine. 2,167,692; Aug. 1.

Sibley-Pym Corporation. (See Sibley, Charles R., assignor.)

Siefert, Fritz, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Improving regenerated cellulose. 2,167,914; Aug. 1.

Siemens Apparate und Machinen Gesellschaft mit beschränkter Haftung. (See Saur, Karl, assignor.)

Siemens & Halske Aktiengesellschaft. (See Pfaff, Walter, assignor.)

Simons, Edwin E., assignor of one-half to F. Sittler, Allentown, Pa. Sanitary toothpick dispenser. 2,167,855; Aug. 1.

Sittler, Fred S. (See Simons, Edwin E., assignor.)

Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electro-optical system. 2,168,047; Aug. 1.

Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electro-optical system. 2,168,048; Aug. 1.

Skellett, Albert M., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electro-optical system. 2,168,049; Aug. 1.

Slattery, William G., Webster, Mass. Imperfection detector. 2,167,693; Aug. 1.

Slipikas, Benjamin, Brooklyn, N. Y. Apportioning device. 2,168,050; Aug. 1.

Small, Frederick M., assignor to Martin-Parry Corporation, York, Pa. Furring stud or strip. 2,167,816; Aug. 1.

Smith, Charles B., Tucson, Ariz., and C. S. Harvey, Milwaukie, Oreg. Indicator for deflated pneumatic tires. 2,167,782; Aug. 1.

Smith, Harold J., Riverside, assignor to Technical Research Corporation, Chicago, Ill. Sound recorder and reproducer. 2,167,817; Aug. 1.

Smith, Harry S. (See Weld, F. E., and Smith.)

Smith, Robert E., and K. T. Molin, assignors to Defender Photo Supply Company, Incorporated, Rochester, N. Y. Manufacturing continuous coated sheets of paper, film, or the like. 2,168,051; Aug. 1.

Smith, S. Morgan, Company. (See Bischoff, Robert, assignor.)

Smoley, Eugene R., assignor to The Lummus Company, New York, N. Y. Solvent extraction and recovery. 2,167,730; Aug. 1.

Snyder, Richard L., Glassboro, N. J., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del. Stabilized oscillating circuit. 2,168,052; Aug. 1.

Societe Anonyme des Anciens Etablissements Hotchkiss & Cie. (See Boussel, André, assignor.)

Société a Responsibilité Limitée Osmo. (See Auger, Adrien, assignor.)

Society of Chemical Industry in Basle. (See Gubler, H., and Bernasconi, assignors.)

Socony-Vacuum Oil Company. (See Fisher, Gerald M., assignor.)

Sothen, Albert L., Chicago, Ill. Dancing tap. 2,168,303; Aug. 1.

Sovis, Milo, assignor to Peerless Novelty Company, Grand Haven, Mich. Visor bracket construction. 2,167,962; Aug. 1.

Spengler, Walter J., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Ignition apparatus for internal combustion engines. 2,167,694; Aug. 1.

Sperry-Sun Well Surveying Company. (See Bazzoni, C. B., and Razek, assignors.)

Standard Oil Development Company. (See Harris, J. McA., Jr., and Matherne, assignors.)

Standard Oil Development Company. (See Richardson, Roger W., assignor.)

Stapleton, Victor, assignor to The Texas Company, New York, N. Y. Cracking hydrocarbon oil. 2,168,074; Aug. 1.

Starr, Oscar L., Mission San Jose, W. Grothe, Alameda, Calif., and H. S. Eberhard, Peoria, Ill., assignors to Caterpillar Tractor Co., San Leandro, Calif. Endless track mechanism. 2,168,053; Aug. 1.

Staufert, Carl, Stuttgart-Bad Cannstatt, Germany. Spindle and spindle bearing. 2,168,247; Aug. 1.

Staufert, Carl, Stuttgart-Bad Cannstatt, Germany. Device ancillary to spinning spindles and the like. 2,168,248; Aug. 1.

Staufert, Carl, Stuttgart-Bad Cannstatt, Germany. Brake for spinning or twisting spindles. 2,168,249; Aug. 1.

Stechbart, Bruno, and G. A. Brueske, assignors to The Bell & Howell Company, Chicago, Ill. Intermittent strip feed mechanism and the like. 2,168,054; Aug. 1.

Steele, Norman O. (See Crane, E. V., and Steele.)

Stein, Hall Manufacturing Company. (See Bauer, Hans F. and J. V., and Hawley, assignors.)

Stellitano, Joseph, Long Island City, N. Y. Milk can filler. 2,168,055; Aug. 1.

Stephan, Arthur, assignor to J. E. Reinecker Aktiengesellschaft, Chemnitz, Germany. Slideway for wheel carriages of gear-grinding machines. 2,168,275; Aug. 1.

Stephens, Howard O., Pittsfield, Mass., assignor to General Electric Company. System of distribution. 2,168,177; Aug. 1.

Stevenson, Arthur E., and S. L. Flugge, Chicago, Ill., assignor to Continental Can Company, New York, N. Y. Container structure with inhibitor. 2,168,107; Aug. 1.

Stewart, Duncan J., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill. Combined building and domestic water heating system. 2,167,695; Aug. 1.

Stewart, Peter. (See Ackerman, G. O., Jr., and Stewart.)

Stokes, F. J., Machine Company. (See Stokes, Francis J., assignor.)

Stokes, Francis J., assignor to F. J. Stokes Machine Company, Philadelphia, Pa. Compressing machine. 2,168,075; Aug. 1.

Stoknan, Hendrikus. (See Perquin, J. N. J., and Stokman.)

Stone, Porter E., Detroit, Mich. Rear view mirror. 2,168,003; Aug. 1.

Strandlund, Carl G., assignor to Deere & Company, Moline, Ill. Colter. 2,168,004; Aug. 1.

Strietelmeier, John E., assignor to Bar-B-Buns, Inc., Cincinnati, Ohio. Bun pan. 2,168,005; Aug. 1.

Strietelmeier, John E., assignor to Bar-B-Buns, Inc., Cincinnati, Ohio. Bun pan. 2,168,006; Aug. 1.

Strovink, Florian A., Medford, assignor to Bennett Incorporated, Cambridge, Mass. Bottle closure or the like and paperboard therefor. 2,167,783; Aug. 1.

Sullivan Machinery Company. (See Butler, Robert S., assignor.)

Sullivan Machinery Company. (See Nast, Paul H., assignor.)

Sullivan Machinery Company. (See Osgood, Charles F., assignor.)

Svendsen, Svend S., Madison, Wis., assignor, by mesne assignments, to The Sherwin-Williams Company, Cleveland, Ohio. Treating iron fluoride. 2,167,784; Aug. 1.

Swanson, Sven V., Forest Park, assignor to Refrigeration Appliances, Inc., Chicago, Ill. Refrigerated cabinet. 2,168,007; Aug. 1.

Swanstrom, Arthur R., Portland, Oreg. Holder for writing pads. 2,167,731; Aug. 1.

Sweet, Donald H., Evanston, Ill. Game. 2,167,915; Aug. 1.

Tautz, Herbert E., assignor to The Delta Manufacturing Company, Milwaukee, Wis. Circular saw. 2,168,282; Aug. 1.

Taylor, Charles H., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,167,785; Aug. 1.

Taylor, Charles H., Springfield, Mass., assignor to The Hoover Company, North Canton, Ohio. Suction cleaner. 2,167,786; Aug. 1.

Taylor, Myron L., Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Apparatus for preventing ice accumulation. 2,168,008; Aug. 1.

Taylor, William L., and A. H. Woodruff, Spondon, near Derby, England, assignors to Celanese Corporation of America. Production of yarn containing staple fiber from continuous filaments. 2,167,916; Aug. 1.

Technical Research Corporation. (See Smith, Harold J., assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Urtel, Rudolf, assignor.)

Tetzman, Fred W., Chicago, Ill. Practice board. 2,167,696; Aug. 1.

Texas Company, The. (See Stapleton, Victor, assignor.)

Textile Machine Works. (See Krissiep, Max, assignor.)

Thomas, Albert R., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,167,697; Aug. 1.

Thompson, Harris A., Schenectady, N. Y., assignor to General Electric Company. Temperature control system. 2,168,178; Aug. 1.

Thompson, John. (See Plaman, A. J., Thompson, and Hovden.)

Tobey, Sam E., Kalamazoo, Mich. Automatic flow cap. 2,168,179; Aug. 1.

Todd, R. C., et al. (See Fulmer, F. P., and Hollingsworth, assignors.)

Tolberg, Carl C., and B. A. Koerner, Glendale, Calif., assignors of one-fifth to R. A. Tolberg, one-fifth to L. I. Koerner, and one-fifth to J. Babb. Noncorrosive electrical connector. 2,168,250; Aug. 1.

Tolberg, Rose A., et al. (See Tolberg, C. C., and Koerner, assignors.)

Townsend, George R., Schenectady, N. Y., assignor to General Electric Company. Thermal control device. 2,168,180; Aug. 1.

Trobridge, Geoffrey W. (See Murphy, E. A., Trobridge, and Andrews.)

Trumbull Electric Manufacturing Company, The. (See Hanny, Charles E., assignor.)

Twin Disc Clutch Company. (See Batten, Percy H., assignor.)

Ulrich, Heinrich, and K. Saurwein, Ludwigshafen-on-the-Rhine, P. Goldacker, Dessau-Haideburg, and G. L. Maiser, Dessau, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic treating bath. 2,168,181; Aug. 1.

Underwood Elliott Fisher Company. (See Neidich, Samuel A., assignor.)

Union Metal Manufacturing Company, The. (See Orr, C. A., and Riemenschneider, assignors.)

Union Oil Company of California. (See Bray, Ulric B., assignor.)

Union Switch & Signal Company. (See Pelikan, John M., assignor.)

United Shoe Machinery Corporation. (See King, Harry C., assignor.)

United Shoe Machinery Corporation. (See La Chapelle, Euclid L., assignor.)

United States Rubber Company. (See Harkins, Henry H., assignor.)

United States Rubber Company. (See Zonino, Frederick, assignor.)

Universal Camera Corporation. (See Githens, O. W., Kende, and Porter, assignors.)

Universal Oil Products Company. (See Grosse, Aristid V., assignor.)

University of Minnesota, Regents of the. (See Dowdell, R. L., and Green, assignors.)

Urtel, Rudolf, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Synchronizing system. 2,168,251; Aug. 1.

Van Bergh, Maurice H., et al. (See Jones, Percy R., assignor.)

Van Praag, Harry, New York, N. Y. Girdle. 2,168,009; Aug. 1.

Veeder-Root, Incorporated. (See Bliss, Harvey N., assignor.)

Verkinderen, Honoré, Mortsel, near Antwerp, assignor to Gevaert Photo-Producten N. V., Antwerp, Belgium. Photographic material. 2,167,732; Aug. 1.

Verplanck, Philip, Akron, Ohio. Switching system. 2,168,010; Aug. 1.

Vierling, Otto. (See Sauer, H., and Vierling.)

Vint, Alan W. (See Eustus, W., and Vint.)

Vogt, Clarence W., New York, N. Y., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio. Carton. 2,167,917; Aug. 1.

Vogt, Clarence W., Saugatuck, Conn., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio. Carton. 2,167,918; Aug. 1.

Voke, Carl E., Columbus, Ohio. Closure. 2,168,297; Aug. 1.

Voland, Melvin G. (See McLain, B., and Voland.)

Von Lindern, Carl G. A. (See de Vries, G., and von Lindern.)

Vose, Richard S. (See Houdry, E. J., and Vose.)

Vose, Richard S., Ridley Park, Pa., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del. Regenerating catalytic masses. 2,167,698; Aug. 1.

Wadsworth, Frank L. O., deceased, by M. M. Wadsworth, Pittsburgh, Pa., administratrix, assignor to Ball Brothers Company, Muncie, Ind. Press mold and means for cooling the mold. 2,167,919; Aug. 1.

Wadsworth, Mildred M., administratrix. (See Wadsworth, Frank L. O.)

Wagner, Charles W., Verdun, Quebec, Canada. Conveyer. 2,167,818; Aug. 1.

Wagner, Chester L., Brooklyn, N. Y., assignor to Safety Fastener Co., Bloomfield, N. J. Paper fastener. 2,167,920; Aug. 1.

Wagner, Stephan R., Elizabeth, assignor to Federal Telegraph Company, Newark, N. J. Radio direction finder. 2,167,787; Aug. 1.

Walenta, Paul, Sturtevant, Wis. Upholstery staple. 2,168,076; Aug. 1.

Walker, Joseph F., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Polymerization of 1,2-dihydronaphthalene and polymer. 2,168,011; Aug. 1.

Walsh, Raymond E. (See Pierson, W. D., and Walsh.)

Waner, Harry E., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Protective covering for aircraft surfaces and the like. 2,168,012; Aug. 1.

Waterbury Farrel Foundry & Machine Company. (See Pierson, W. D., and Walsh, assignors.)

Watson, Glenn W., Detroit, Mich. Automatic gearshift. 2,167,921; Aug. 1.

Watts, James M., J. Freesh, and F. Borchers, Los Angeles, Calif. Spark plug. 2,168,019; Aug. 1.

Webb, James A., Corpus Christi, Tex. Automatic idler and take-up. 2,167,963; Aug. 1.

Weesner, Walker J., Indianapolis, Ind. Stencil hawk. 2,167,699; Aug. 1.

Weinig, Arthur J., Golden, assignor, by mesne assignments, to Morse Bros. Machinery Company, Denver, Colo. Flotation apparatus. 2,167,788; Aug. 1.

Weis, John P., Nyack, assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y. Portable sewing apparatus. 2,168,276; Aug. 1.

Weld, Foster E., Newton Highlands, and H. S. Smith, Needham, assignors to The Gamewell Company, Newton Upper Falls, Mass. Warning signal and mechanism therefor. 2,167,964; Aug. 1.

Welser, Brinton, and M. G. Jewett, assignors to Chain Belt Company, Milwaukee, Wis. Sprocket chain lubrication. 2,168,277; Aug. 1.

Welti, Karl, Glasgow, Scotland. Method of and apparatus for production of raised patterns on fabrics. 2,167,819; Aug. 1.

Wendt, Bruno, Dessau, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic material for color photography. 2,168,182; Aug. 1.

Wennerstrom, Einar, East Rochester, N. Y. Snow glider or ski. 2,168,144; Aug. 1.

Wertheim, Adolph, Brooklyn, assignor to I. Miller & Sons, Inc., Long Island City, N. Y. Ornamental sheet material. 2,168,252; Aug. 1.

West, George E., San Antonio, Tex. Bottle capping machine. 2,168,109; Aug. 1.

Western Products Company. (See McMechan, Maurice H., assignor.)

Westinghouse Electric & Manufacturing Company. (See Lockwood, Lloyd D., assignor.)

Westinghouse Electric & Manufacturing Company. (See McGowan, Michael E., assignor.)
Westinghouse Electric and Manufacturing Company. (See Rentschler, H. C., and Henry, assignors.)
Wever, Paul. (See Ziller, Hans-Joachim, assignor.)
Wexler, Samuel, Amesbury, Mass. Shoe and making same. 2,167,858; Aug. 1.
Wheary, George H., assignor to Wheary Trunk Company, Racine, Wis. Hand luggage handle. 2,168,077; Aug. 1.
Wheary Trunk Company. (See Wheary, George H., assignor.)
White, Bert E., Spokane, Wash. Portable electric lamp. 2,167,789; Aug. 1.
White, John D., Wichita Falls, Tex. Paint mill. 2,167,700; Aug. 1.
Whitfield, Marshall G., and V. Sheshunoff, Knoxville, Tenn., assignors to Reynolds Metals Company, New York, N. Y. Producing aluminum treated articles of iron. 2,167,701; Aug. 1.
Whitehead, Alexander G., Hartford, and R. R. Raber, West Hartford, Conn., assignors, by mesne assignments, to Niles-Bement-Pond Company, New York, N. Y. Lathe. 2,167,790; Aug. 1.
Wicks, John, Oak Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Call distributing system. 2,167,733; Aug. 1.
Willcox & Gibbs Sewing Machine Company. (See Weis, John P., assignor.)
Williams, Alfred O. (See Burrows, R. J., and Williams.)
Williams, J. H., & Co. (See Kress, Willard C., assignor.)
Williamson, Floyd M., Detroit, Mich. Vanity case. 2,167,702; Aug. 1.
Willis, Elijah J., Morehead City, assignor of one-half to D. E. Oglesby, Farmville, N. C. Pressure gauge for automobile tires. 2,168,145; Aug. 1.
Willis, George W., Brighton, England. Manufacture of iron, steel, and ferrous alloys from pig iron. 2,167,859; Aug. 1.
Wilmanns, Gustav, Wolfen, and W. Schneider, Dessau, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Stereophotography. 2,168,183; Aug. 1.
Wilsey, Irven H., assignor of forty-five percent to J. H. Sharp and ten percent to E. W. Hibbard, Chicago, Ill. Game apparatus. 2,167,703; Aug. 1.
Wilson Block and Brick Machine Company. (See Wilson, George E., assignor.)
Wilson, George E., assignor to Wilson Block and Brick Machine Company, Fort Lauderdale, Fla. Molding machine for molding building units. 2,168,146; Aug. 1.
Winch, Reuben E., Dallas, Tex., assignor to The B. F. Goodrich Company, New York, N. Y. Conveyor belt. 2,168,013; Aug. 1.
Windeknecht, John G. (See Mullenix, C. S., and Windeknecht.)
Wingfoot Corporation. (See Calvert, William C., assignor.)
Winslow, Seth L. (See Ayres, H. R., and Winslow.)
Winthrop Chemical Company. (See Klingel, H., and MacLennan, assignors.)
Witting, Albin G., and J. F. Headlee, Gary, Ind. Rail treatment furnace and control means therefor. 2,167,922; Aug. 1.
Woerner, Eugen, Stuttgart-Feuerbach, Germany. Chainless cycle with pedal levers. 2,168,110; Aug. 1.
Wood, Chester F. (See Powell, C. E., and Wood.)
Wood, Gar. (See Gray, Edward, assignor.)
Wood, William, Jr., Vancouver, British Columbia, Canada. Top lift for covered heels. 2,167,965; Aug. 1.
Woodruff, Alfred H. (See Taylor, W. L., and Woodruff.)
Woodruff, Henry S., Larchmont, N. Y. Oil burning furnace. 2,168,184; Aug. 1.
Works Development Company. (See Ehrlich, Josef, assignor.)
Wright, Arthur, Forest Hills, Long Island, N. Y. Self-rolling umbrella and producing the same. 2,167,860; Aug. 1.
Wright, Charles F., Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y. Match-booking machine. 2,167,934; Aug. 1.
Wyatt, Evan E., Los Angeles, Calif. Combined bumper and license plate holder. 2,167,791; Aug. 1.
Yabroff, David L., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Removing acid components from hydrocarbon distillates. 2,168,078; Aug. 1.
Yates, George, Glendale, assignor to R. M. McFadden, Los Angeles, Calif. Hair waver. 2,168,014; Aug. 1.
Youngstown Sheet and Tube Company, The. (See Mirfield, George, assignor.)
Youngstown Sheet and Tube Company, The. (See Mishler, Earnest W., assignor.)
Zeiss Ikon Aktiengesellschaft. (See Görlich, Paul, assignor.)
Zeiss Ikon Aktiengesellschaft. (See Küppenbender, Heinz, assignor.)
Zeiss Ikon Aktiengesellschaft. (See Sauer, H., and Vierling, assignors.)
Zengerle, Joseph C. (See Holbrook, F. C., and Zengerle.)
Ziller, Hans-Joachim, assignor to P. Wever, Dusseldorf, Germany. Belt-hook press. 2,167,820; Aug. 1.
Zimmern, Emy, Née Baruch, New York, N. Y. Foldable cabinet. 2,167,861; Aug. 1.
Zinkil, Roy H., Oak Park, assignor to Crane Co., Chicago, Ill. Safety bathing fixture. 2,168,079; Aug. 1.
Zonino, Frederick, Naugatuck, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Cutting blanks from plastic strip material. 2,167,734; Aug. 1.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Air conditioning systems, Method and apparatus for automatically controlling the operation of. A. E. Beals. Re. 21,166; Aug. 1.
Liquids, Process and apparatus for the continuous extraction or treatment of. C. Coutor. Re. 21,168; Aug. 1.
Mounting, Ophthalmic. F. E. Bowers. Re. 21,167; Aug. 1.
Scraper, Wheeled. T. R. Paulsen. Re. 21,170; Aug. 1.
Weighing apparatus. H. E. McCrery. Re. 21,169; Aug. 1.

LIST OF DESIGN INVENTIONS

Belt, Ornamental. C. Wahl. 115,987; Aug. 1.
Bicycle. F. W. Schwinn. 115,942; Aug. 1.
Bill blank, Service. A. B. Collins. 115,977; Aug. 1.
Bolero. M. Wartsky. 115,988; Aug. 1.
Bottle. S. W. Dennis. 115,956; Aug. 1.
Brush, Hair. P. Müller-Munk. 115,967; Aug. 1.
Building. E. C. Gledhill. 115,963; Aug. 1.
Building or the like, Service station. R. O. Munson. 115,936–8; Aug. 1.
Cabinet or the like, Radio. B. W. Przywara. 115,979; Aug. 1.
Candle. L. F. Wilson. 115,947; Aug. 1.
Case, Clock. L. I. Bruce. 115,905; Aug. 1.
Case or similar article, Vanity. R. T. Gaige. 115,959–62; Aug. 1.
Cellarette, Console bar. D. Dillon. 115,957; Aug. 1.
Check marker and fountain pen or similar article, Combined. G. Donato. 115,916; Aug. 1.
Clip or similar article. D. Cooper. 115,909–12; Aug. 1.
Clippers. C. Larocque. 115,932; Aug. 1.
Clock or similar article. I. V. Peterson. 115,939; Aug. 1.
Closure, Slide fastener. R. Kay. 115,927; Aug. 1.
Coat. D. Kaplan. 115,985; Aug. 1.
Counter, Display. H. E. Krisman. 115,929; Aug. 1.
Decoration or article of similar nature, Table. D. O. Crandall. 115,913; Aug. 1.
Dial and hand for a clock or similar article, Combined. R. H. Bourne. 115,904; Aug. 1.
Dish or similar article. R. A. May. 115,935; Aug. 1.
Drainer and stopper, Combined surface. W. Hillenbach. 115,924; Aug. 1.
Dress. V. D. Draddy. 115,989; Aug. 1.
Dress. R. Feintuck. 115,990; Aug. 1.
Dress. T. M. Fritz. 115,993–5; Aug. 1.
Dress. M. Frumkin. 115,996; Aug. 1.
Dress. M. Galowitz. 115,997; Aug. 1.
Dress. H. Goldman. 115,998; Aug. 1.
Dress. G. J. Pollack. 115,999; Aug. 1.
Dress. J. Rosener. 116,000; Aug. 1.
Dress. K. Rost. 116,001; Aug. 1.
Dress. M. Stone. 116,002–3; Aug. 1.
Fabric or similar article, Textile. E. P. Bixer. 115,976; Aug. 1.
Fabric or similar article, Textile. A. Zavell. 115,982; Aug. 1.
Fabric, Textile. T. Emmerich. 115,978; Aug. 1.
Fabric, Textile. C. E. Forstmann. 115,984; Aug. 1.
Fabric, Textile. C. E. Forstmann. 115,991–2; Aug. 1.
Hanger, Garment. J. F. Fewster. 115,917–20; Aug. 1.
Hanger, Pants. C. E. Daniels. 115,915; Aug. 1.
Headstock for machine tools. M. A. Hollengreen and C. R. Mentzer. 115,964; Aug. 1.
Holder, Knife. H. H. Hopkins. 115,926; Aug. 1.
Holder or similar article, Cigarette. C. M. Gemmill. 115,921; Aug. 1.
Iron, Electric steaming. L. Y. Eckstein. 115,958; Aug. 1.
Jacket. P. H. Bailey. 115,983; Aug. 1.
Kettle, Tea. R. N. Kircher. 115,928; Aug. 1.
Lamp and radio receiving set, Combined. D. J. Crowley. 115,951–5; Aug. 1.
Lighting fixture or similar article. L. L. Stewart. 115,970–1; Aug. 1.
Lock set. E. C. Steffens. 115,981; Aug. 1.
Lubricator, Oil. O. H. Jung. 115,966; Aug. 1.
Motor for toy airplanes. T. R. Arden. 115,974; Aug. 1.
Paper or similar article, Wrapping. H. M. Sinclair. 115,980; Aug. 1.
Piano. P. R. Manfré. 115,934; Aug. 1.
Pin or similar article. D. Cooper. 115,907–8; Aug. 1.
Pin or similar article. D. Cooper. 115,950; Aug. 1.
Placard or the like, Display. A. O. Schilling. 115,941; Aug. 1.
Plate for a signal casing, Face. M. C. Brady. 115,949; Aug. 1.
Plate for oil burning stoves, Baffle. C. F. Wiley. 115,946; Aug. 1.
Receptacle, Beverage mixer. A. U. Hook. 115,965; Aug. 1.
Recording instrument or similar article, Electrical. H. A. Andersen. 115,973; Aug. 1.
Ring. M. Kronstadt. 115,930–1; Aug. 1.
Sachet ball. J. E. Vivaudou and H. G. Lubin. 115,972; Aug. 1.
Scale, Weighing. B. S. Watling. 115,944; Aug. 1.
Scarf. S. H. Bammon. 115,975; Aug. 1.
Scissors. E. W. Carpenter. 115,906; Aug. 1.
Shaker or the like, Combined salt and pepper. R. H. Holmes. 115,925; Aug. 1.
Shears, Pair of. H. Wester. 115,945; Aug. 1.
Shoe. D. E. Spathelf. 115,943; Aug. 1.
Slipper or similar article. C. A. Grosvenor. 115,923; Aug. 1.
Stand for hosiery or the like, Display. D. J. Gordon and C. F. Cook. 115,922; Aug. 1.
Statuette. D. O. Crandall. 115,914; Aug. 1.
Sunglasses. J. E. Maisch. 115,933; Aug. 1.
Tab for slide fasteners, Pull. N. J. Poux. 115,940; Aug. 1.
Timepiece face. S. Banick. 115,901; Aug. 1.
Tooth shade guide unit. G. A. Barnes. 115,948; Aug. 1.
Toy. S. I. Berger. 115,903; Aug. 1.
Tree base. J. T. Barton. 115,902; Aug. 1.
Undergarment. M. and M. E. O'Gorman. 115,986; Aug. 1.
Vehicle, Highway. E. Ramstrum. 115,968–9; Aug. 1.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 1ST DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive article, Resinoid bonded. B. Sanford. 2,168,281; Aug. 1.
Abrasive wheel, Segmental. H. W. H. Beth. 2,168,283; Aug. 1.
Accelerator-controlling device. A. E. Johnson. 2,167,843; Aug. 1.
Accounting machine. M. M. Goldberg. 2,167,714; Aug. 1.
Accounting machine. C. L. Lee. 2,167,760; Aug. 1.
Acid amides, Production of carboxylic. H. Hopff, H. Kellermann, and A. Freytag. 2,168,161; Aug. 1.
Acid components from hydrocarbon distillates, Removing. D. L. Yabroff. 2,168,078; Aug. 1.
Acids, Making hydroxamic. S. B. Lippincott. 2,168,305; Aug. 1.
Adding, subtracting, and multiplying machine. H. L. Clary. 2,167,827; Aug. 1.
Aerial system, Wireless. E. C. Cork and J. L. Pawsey. 2,167,709; Aug. 1.
Air conditioning system. R. B. Crawford. 2,167,878; Aug. 1.
Aircraft and the like, Method and apparatus for construction of. H. Klemm. 2,168,280; Aug. 1.
Air-fuel ratios, in combustion, Determining. E. Pick. 2,168,236; Aug. 1.
Air intake for gas burners, Secondary. W. Schonwald. 2,167,856; Aug. 1.
Airplane rib. K. Schmidt. 2,167,686; Aug. 1.
Air pump for windshields. R. E. Kennedy and R. W. Bartle. 2,168,216; Aug. 1.
Alkaline accumulator, Electric. C. H. O. Lübeck. 2,167,809; Aug. 1.
Alkaline liquids laden with hydrogen sulphide, Degisfucation of. H. Baehr and K. Braus. 2,168,150; Aug. 1.
Alkyl and aralkyl halides, Preparing. O. Leuchs. 2,168,167; Aug. 1.
Alloy. C. B. Sawyer. 2,167,684; Aug. 1.
Alloys of copper and nickel, Making. F. Leverick. 2,168,129; Aug. 1.
Aluminum body and making same. F. Pavelka. 2,168,134; Aug. 1.
Amines and making them, Halogenated. L. Lilienfeld. 2,167,807; Aug. 1.
Ammonia, Oxidizing. F. E. Carter, S. L. Handforth, and W. E. Kirst. 2,167,708; Aug. 1.
Antenna. A. Alford. 2,167,735; Aug. 1.
Antenna suspension, Multiple V. H. Pratt. 2,167,774; Aug. 1.
Apparatus for applying adhesive to labels and the like. N. Lanes. 2,168,222; Aug. 1.
Apparatus for classifying finely granulated solids according to size. H. E. T. Haultain. 2,168,207; Aug. 1.
Apparatus for controlling liquid levels. P. F. Danel. 2,168,117; Aug. 1.
Apparatus for determining the printing time for photographic negatives. I. L. Gartland. 2,167,884; Aug. 1.
Apparatus for measuring the quantity of fluid in vessels or containers. K. Saur. 2,168,106; Aug. 1.
Apparatus for mixing different or similar substances. O. Hummel. 2,167,805; Aug. 1.
Apparatus for preparing padded trim panels. C. W. Avery and A. H. Haberstump. 2,167,862; Aug. 1.
Apparatus for reduction. R. S. Butler. 2,168,082; Aug. 1.
Apparatus, Size-reducing. R. S. Butler. 2,168,091; Aug. 1.
Apportioning device. B. Silpikas. 2,168,050; Aug. 1.
Arc apparatus for producing chemical reactions, Electric. V. F. Hanson. 2,167,976; Aug. 1.
Arch support, Orthopedic foot. H. Seligmann. 2,167,933; Aug. 1.
Articles of iron, Producing aluminum treated. M. G. Whitfield and V. Sheshunoff. 2,167,701; Aug. 1.
Articles, Production of hollow. E. A. Murphy, G. W. Trobridge, and J. A. Andrews. 2,167,724; Aug. 1.
Automatic flow cap. S. E. Tobey. 2,168,179; Aug. 1.
Automobile. R. E. Johnson. 2,167,929; Aug. 1.
Automobile driver's instant foot control. V. Pomernackl. 2,167,959; Aug. 1.
Automobile vehicle. G. Bunau-Varilla. 2,168,108; Aug. 1.
Automotive trailer coupling. J. C. Browne. 2,168,058; Aug. 1.
Awning blind. H. Ruscher. 2,168,046; Aug. 1.
Basket, Paperboard. P. J. Brooks. 2,167,936; Aug. 1.
Bathing fixture, Safety. R. H. Zinkin. 2,168,079; Aug. 1.
Beet topper, Rotary. F. S. Hill. 2,167,754; Aug. 1.
Bearing: *See*—
Block bearing.
Bearings, Sizing porous metal. J. C. Lemming. 2,168,300; Aug. 1.
Belt, Conveyer. R. E. Winch. 2,168,013; Aug. 1.
Belt-hook press. H.-J. Ziller. 2,167,820; Aug. 1.
Belt unit. A. L. Freedlander. 2,167,942; Aug. 1.
Bending machine, Pipe or tube. J. H. Hawes. 2,168,123; Aug. 1.
Beverage and liquid dispenser. R. A. Hennings. 2,168,211; Aug. 1.
Binder, Loose leaf. L. F. Scherzinger. 2,167,685; Aug. 1.
Bit: *See*—
Drill bit. Roller bit.
Blanks from plastic strip material, Cutting. F. Zonino. 2,167,734; Aug. 1.
Block: *See*—
Glass building block.
Block and insulation, Apparatus for manufacture of cork. P. E. Flotron. 2,167,801; Aug. 1.
Block bearing. G. Fast. 2,167,882; Aug. 1.
Board: *See*—
Practice board.
Boiler. H. A. Faber. 2,168,197; Aug. 1.
Bolting means for grinding machines. H. J. Mankoff. 2,167,954; Aug. 1.
Bolts, pins, and the like, Threaded and other. H. Rottenburg. 2,167,910; Aug. 1.
Bomb and bracket therefor, Fire extinguishing. A. F. Playfair, G. W. F. Brisbin, and R. C. Jordan. 2,168,136; Aug. 1.
Boring tool. E. L. Shaw. 2,168,176; Aug. 1.
Bottle breaker, Safety. W. Lieb. 2,168,226; Aug. 1.
Bottle breaking device. A. Fritz. 2,168,026; Aug. 1.
Bottle closure or the like and paperboard therefor. F. A. Strovink. 2,167,783; Aug. 1.
Bottle, Water. M. B. Reach. 2,168,239; Aug. 1.
Box: *See*—
Strainer box.
Bracket construction, Visor. M. Sovis. 2,167,962; Aug. 1.
Braiding carrier. M. Krissiep. 2,167,930; Aug. 1.
Brake: *See*—
Hydrostatic brake.
Brake. E. H. Berno. 2,167,706; Aug. 1.
Brake. L. E. La Brie. 2,167,721; Aug. 1.
Brake for spinning or twisting spindles. C. Staufert. 2,168,249; Aug. 1.
Brake gear support. W. H. Fine. 2,167,712; Aug. 1.
Brake hanger retainer. M. S. Johnson. 2,167,979; Aug. 1.
Brake means for power press feed rolls. E. V. Crane and N. O. Steele. 2,168,284; Aug. 1.
Brake mechanism for feeding material from a roll, Automatic. C. P. Dymeck. 2,168,023; Aug. 1.
Brake mechanism, Railway car. W. F. Kiesel, Jr. 2,168,294; Aug. 1.
Brooder. R. R. Morrill. 2,167,956; Aug. 1.
Brush and comb, Combined. B. and D. Oshman. 2,168,235; Aug. 1.
Brush section, Wide. L. C. Herold. 2,167,949; Aug. 1.
Bumper and license plate holder, Combined. E. E. Wyatt. 2,167,791; Aug. 1.
Bushing, Flue. S. F. Jackes and R. Gehne. 2,168,066; Aug. 1.
Bushings, Sizing porous metal. J. C. Lemming and J. H. Davis. 2,168,301; Aug. 1.
Cabinet: *See*—
Foldable cabinet. Refrigerated cabinet.
Cabinet rack. G. L. Reese. 2,168,172; Aug. 1.
Cable clamp. B. L. Donald. 2,167,799; Aug. 1.
Cambering mechanism for grinding machines. C. Herfurth and K. T. Schledorn. 2,167,948; Aug. 1.
Camera, Roll film. H. Küppenbender. 2,168,263; Aug. 1.
Can and making same. J. F. Anderson. 2,167,737; Aug. 1.
Cantilever winding reel. F. J. Samerdyke. 2,167,681; Aug. 1.
Cap: *See*—
Automatic flow cap.
Capacitor composition. F. M. Clark. 2,168,156; Aug. 1.
Capping machine, Bottle. G. E. West. 2,168,109; Aug. 1.
Carbon black, manufacture of. H. H. Offutt. 2,167,674; Aug. 1.
Carburetor structure. G. R. Ericson. 2,167,975; Aug. 1.
Card selecting machine, Delinquency. F. T. Boylan. 2,167,871; Aug. 1.
Carrier: *See*—
Braiding carrier.
Carton. C. W. Vogt. 2,167,917–8; Aug. 1.
Carton bottom sealing machine. C. F. Richard. 2,167,814; Aug. 1.
Carton capping machine. I. Kotcher. 2,167,895; Aug. 1.
Carton, Pasteboard. L. E. Shaw. 2,167,913; Aug. 1.
Cartridge, Fuel oil filter. J. E. Hurn. 2,168,125; Aug. 1.

Car truck and clasp brake assembly. W. C. Hedgcock. 2,168,291; Aug. 1.
Car truck, Railway. W. F. Kiesel, Jr. 2,168,293; Aug. 1.
Case: *See*—
Vanity case.
Case and dispenser, Cigarette. G. H. Hutaff, Jr. 2,168,214; Aug. 1.
Casein material and polished casein articles, Molding. D. Kasen. 2,168,127; Aug. 1.
Casein product, Buttermilk. C. G. Harford. 2,167,751; Aug. 1.
Casting. C. Piel. 2,167,906; Aug. 1.
Catalytic masses, Regenerating. R. S. Vose. 2,167,698; Aug. 1.
Ceiling and wall cleaner. F. W. French. 2,168,121; Aug. 1.
Cellulose, Improving regenerated. F. Siefert. 2,167,914; Aug. 1.
Cement and making the same. D. E. Cordier and E. H. Balz. 2,167,874; Aug. 1.
Ceramic body and making the same. S. J. McDowell. 2,168,230; Aug. 1.
Chain repair link, Cross. F. B. Hewel. 2,168,029; Aug. 1.
Chair: *See*—
Multistage window chair.
Chemical reactions, Promotion of. E. J. Houdry and R. S. Vose. 2,167,655; Aug. 1.
Circuit: *See*—
Stabilized oscillating circuit
Circuit breaker. G. A. Matthews. 2,167,665; Aug. 1.
Clamp: *See*—
Cable clamp. Pipe aligning clamp.
Clamp. D. L. Farmer. 2,168,257; Aug. 1.
Clarifying apparatus. W. B. Marshall. 2,168,264; Aug. 1.
Cleaner: *See*—
Ceiling and wall cleaner. Suction cleaner.
Cleaning composition. G. R. Ensminger. 2,168,024; Aug. 1.
Clip: *See*—
Pencil clip.
Closing device for belt fasteners. C. Matthael. 2,168,168; Aug. 1.
Closure. C. E. Voke. 2,168,297; Aug. 1.
Clutch: *See*—
Overload clutch.
Clutch mechanism. P. H. Batten. 2,167,705; Aug. 1.
Clutch or brake band. F. V. Borden. 2,167,935; Aug. 1.
Coating composition. W. Nebel. 2,168,040; Aug. 1.
Coating composition and preparing the same, Casein. C. G. Harford. 2,167,752; Aug. 1.
Coating composition for sheet metal containers. B. S. Clark. 2,167,638; Aug. 1.
Cock, Vacuum breaking ball. H. D. Clemmons. 2,167,938; Aug. 1.
Coffee maker. C. I. Hull. 2,168,158; Aug. 1.
Coin holder, Unit and multiple delivery. T. O. Miller. 2,167,668; Aug. 1.
Collapsible tube dispenser. W. C. Allen. 2,168,080; Aug. 1.
Colter. C. G. Strandlund. 2,168,004; Aug. 1.
Compass, Magnetic. J. A. V. Benard. 2,168,112; Aug. 1.
Composition for preserving flowers. A. A. Meyer. 2,168,304; Aug. 1.
Compressing machine. F. J. Stokes. 2,168,075; Aug. 1.
Compressor. P. Maniscalco. 2,168,036; Aug. 1.
Compressor, Electric refrigerating. P. W. Des Roches. 2,167,879; Aug. 1.
Computing machine. E. Beaumont. 2,167,620; Aug. 1.
Concrete expansion and contraction joint. C. Older. 2,167,904; Aug. 1.
Condenser: *See*—
Electrolytic condenser.
Condenser construction, Electrical. R. E. Cramer. 2,167,877; Aug. 1.
Condensers, Reduction drive for variable. V. Petersen. 2,167,677; Aug. 1.
Condition controller. P. S. Bear and R. Billings. 2,167,824; Aug. 1.
Connector: *See*—
Noncorrosive electrical connector.
Connection, Piano action. A. H. Morse. 2,167,670; Aug. 1.
Container: *See*—
Display container. Pocket toilet set container
Container. G. W. Boh. 2,167,751; Aug. 1.
Container. H. A. Fink and J. Haycock. 2,168,097; Aug. 1.
Container. H. J. Hayes. 2,167,947; Aug. 1.
Container and affixer, Postage stamp. S. G. Richards. 2,167,908; Aug. 1.
Container and making the same. B. McLain and M. G. Voland. 2,168,231; Aug. 1.
Container convertible to pail, Sealed. H. G. Hornibrook. 2,167,977; Aug. 1.
Container conveyer and distributor. C. N. Bergmann. 2,168,191; Aug. 1.
Container for adhesive tape. W. F. Punte and E. E. Baker. 2,168,105; Aug. 1.
Container structure with inhibitor. A. E. Stevenson and S. L. Flugge. 2,168,107; Aug. 1.
Containers, Filling and sealing device for. F. Brodsky. 2,167,624; Aug. 1.
Containers in carriers, Loading. C. S. Mullenix and J. G. Windeknecht. 2,167,770; Aug. 1.
Control apparatus, Engine starter. J. B. Dyer. 2,167,646; Aug. 1.
Control apparatus, Remote. W. E. Phillips. 2,167,850; Aug. 1.
Control, Constant tension winding. W. R. Perry. 2,168,071; Aug. 1.
Control device. L. R. Kolier and R. P. Johnson. 2,168,165; Aug. 1.
Control device, Thermal. G. R. Townsend. 2,168,180; Aug. 1.
Control for automatic firearms, Remote. A. Boussel. 2,168,114; Aug. 1.
Control means, X-ray tube. E. R. Goldfield. 2,167,802; Aug. 1.
Control of electric power, Automatic. W. H. Howe. 2,168,031; Aug. 1.
Control system and apparatus. E. A. Faller. 2,167,829; Aug. 1.
Control system, Temperature. H. A. Thompson. 2,168,178; Aug. 1.
Control systems. A. H. Mittag. 2,168,170; Aug. 1.
Cooling system, Fluid. H. R. Crago. 2,168,157; Aug. 1.
Counter. H. N. Bliss. 2,168,151; Aug. 1.
Counterbalance, Spring. W. H. Haupt. 2,168,209; Aug. 1.
Conveyer. C. W. Wagner. 2,167,818; Aug. 1.
Core barrel, Sand line. G. C. Oliver. 2,167,991; Aug. 1.
Corn husker. R. L. Anderson and F. R. Martin. 2,167,967; Aug. 1.
Corsage pin. J. Moss. 2,167,671; Aug. 1.
Counting system, Electrical. F. W. Frink. 2,168,198; Aug. 1.
Coupling: *See*—
Pipe coupling. Tractor coupling.
Coupling. E. S. Miller. 2,168,101; Aug. 1.
Cover construction. L. A. Shoemaker and A. E. Miller. 2,167,691; Aug. 1.
Cover for sealing liquid surfaces. R. Bainton. 2,167,619; Aug. 1.
Covering for aircraft surfaces and the like, Protective. H. E. Waner. 2,168,012; Aug. 1.
Crusher. R. S. Butler. 2,168,083; Aug. 1.
Cultivator, Tractor. J. L. Holy. 2,168,213; Aug. 1.
Cup, Paper. A. A. Adamson. 2,168,186; Aug. 1.
Current interrupting means. E. O. Schweitzer, Jr. 2,167,781; Aug. 1.
Cutter for shearing machines. F. G. W. Bristow. 2,168,189; Aug. 1.
Cutters for well drilling tools, Making. A. C. Catland. 2,168,060; Aug. 1.
Cutting device. J. Gold. 2,167,833; Aug. 1.
Cylindrical surfaces, Method and machine for honing. A. M. Johnson and W. M. Hairbairn. 2,167,758; Aug. 1.
Cycle with pedal levers, Chainless. E. Woerner. 2,168,110; Aug. 1.
Depressing mechanism, Valve. R. H. Sheppard. 2,167,854; Aug. 1.
Derivatives of fatty acids, Purification of relatively water insoluble. S. H. McAllister and G. F. Johnson. 2,167,931; Aug. 1.
Derrick, Portable. B. Kervarrec. 2,168,128; Aug. 1.
Detector, Imperfection. W. G. Slattery. 2,167,693; Aug. 1.
Device ancillary to spinning spindles and the like. C. Staufert. 2,168,248; Aug. 1.
Device for adjusting the ignition timing of internal combustion engines. F. Nallinger. 2,167,902; Aug. 1.
Device for making trimmings. C. Seaman. 2,167,857; Aug. 1.
Device for the automatic applications of antiseptic insulating ribbons to the edges of drinking glasses, cups, and the like. F. Satrango. 2,167,728; Aug. 1.
Dies, Making. C. G. Deubel. 2,167,880; Aug. 1.
Dipper trip and tag line winder. G. G. Morin and E. J. Carleton. 2,167,769; Aug. 1.
Discharge devices, Electron. G. M. Rose, Jr. 2,167,852; Aug. 1.
Dispenser: *See*—
Beverage and liquid dispenser. Sanitary toothpick dispenser.
Collapsible tube dispenser.
Dispensing system and apparatus, Beverage. W. C. Buttner. 2,168,059; Aug. 1.
Displacement dipper pump. N. S. Serinis. 2,167,690; Aug. 1.
Display container. P. Roberts. 2,168,240; Aug. 1.
Display form. F. E. Everson. 2,168,063; Aug. 1.
Distributing system, Call. J. Wicks. 2,167,733; Aug. 1.
Door equipment, Sliding. E. G. Busse. 2,167,707; Aug. 1.
Double-acting press. W. Ernst. 2,167,941; Aug. 1.
Double sash lock. R. G. Reader. 2,167,960; Aug. 1.
Draft apparatus for trailers. D. D. Arehart. 2,168,148; Aug. 1.
Draft connection between vehicles. W. J. Alexander. 2,167,792; Aug. 1.
Draft control mechanism. R. B. Cranmer. 2,168,021; Aug. 1.
Drill bit. P. H. Nast. 2,168,102; Aug. 1.
Dump vehicle. C. P. Galanot. 2,168,298; Aug. 1.
Dyeings with polyazo dyes. S. S. Rossander. 2,167,779; Aug. 1.

Dyestuffs containing simultaneously radicals of anthraquinone dyestuffs and azo dyestuffs and making the same. H. Gubler and E. Bernasconi. 2,167,804; Aug. 1.
Dyestuffs, Diazo. S. S. Rossander. 2,167,780; Aug. 1.
Dyestuffs of the anthraquinone series, Vat. O. Schlichting. 2,168,174; Aug. 1.
Egg candler and stamper. J. Roberts. 2,167,853; Aug. 1.
Electric appliance. E. S. Preston. 2,167,995; Aug. 1.
Electric meter. S. S. Green. 2,167,649; Aug. 1.
Electric meter. S. S. Green. 2,168,290; Aug. 1.
Electric switch. A. E. Grant. 2,167,648; Aug. 1.
Electric traffic signal. J. H. Brady. 2,167,631; Aug. 1.
Electrical terminal. C. E. Hanny. 2,168,016; Aug. 1.
Electrode assembly. J. R. Glass. 2,167,885; Aug. 1.
Electrode scraping and dressing apparatus for welding machines. E. W. Mishler. 2,167,767; Aug. 1.
Electrodes of electric welding machines, Apparatus for rotating and shaping. G. E. Mirfield. 2,167,766; Aug. 1.
Electrolytic condenser. F. Pavelka. 2,168,135; Aug. 1.
Electron discharge device. C. S. Bull. 2,167,826; Aug. 1.
Electron ray voltage indicator. K. S. Jackson. 2,167,842; Aug. 1.
Electro-optical system. A. M. Skellett. 2,168,047; Aug. 1.
Electro-optical system. A. M. Skellett. 2,168,048–9; Aug. 1.
Emulsions, Apparatus for forming gas-liquid. A. Auger. 2,168,187; Aug. 1.
Enamel, Synthetic metallic. G. H. Hicks. 2,168,212; Aug. 1.
Endless track mechanism. O. L. Starr, W. Grothè, and H. S. Eberhard. 2,168,053; Aug. 1.
Engine: *See*—
Internal combustion engine. Two-stroke engine.
Engines, Operation of internal combustion. H. Jänicke. 2,167,951; Aug. 1.
Ethers, Chloralkyl xenoxy. G. H. Coleman, L. E. Mills, and G. V. Moore. 2,167,639; Aug. 1.
Ethylene, Halo-substitution. H. P. A. Groll, G. Hearne, J. Burgin and D. S. La France. 2,167,927; Aug. 1.
Exploration of subsurface, Method and apparatus for electrical. J. J. Jakosky. 2,167,950; Aug. 1.
Explosive. W. H. Rinkenbach and H. A. Aaronson. 2,167,679; Aug. 1.
Explosive composition. H. H. Holmes. 2,168,030; Aug. 1.
Explosive powder and manufacture thereof. H. G. Pert. 2,167,849; Aug. 1.
Exposure meter. R. J. Monner. 2,168,133; Aug. 1.
Extrusion process and apparatus. W. Klocke. 2,167,845; Aug. 1.
Farm gate. L. Beard. 2,167,825; Aug. 1.
Fastener: *See*—
Paper fastener.
Feed mechanism and the like, Intermittent strip. B. Stechbert and G. A. Brueske. 2,168,054; Aug. 1.
Feed mechanism for firearms, Cartridge. F. Gebauer. 2,168,199; Aug. 1.
Feeds and the composition of the same, Manufacturing chicken. H. Sakurai. 2,168,138; Aug. 1.
Feeding mechanism for tape applying machines. R. A. Hartt. 2,168,159; Aug. 1.
Fibers from the stalks of flax and other bast plants, Apparatus for obtaining. A. E. Dodd. 2,168,095; Aug. 1.
Filament and making. M. E. McGowan. 2,167,765; Aug. 1.
Filaments, threads, and the like, Apparatus for the production of. E. K. Gladding. 2,168,027; Aug. 1.
Film-advancing mechanism, Motion picture. F. T. O'Grady. 2,168,043; Aug. 1.
Film feed and shutter mechanism, Intermittent. O. W. Githens, G. Kende, and E. M. Porter. 2,167,713; Aug. 1.
Filter for artesian wells or bore holes. G. Caluwe. 2,167,743; Aug. 1.
Fish lure, Fly-rod. J. A. Gilliam. 2,167,945; Aug. 1.
Fish meal for storage and shipping, Preparing. E. T. Meakin. 2,167,723; Aug. 1.
Flat knitting frame. H. Dietrich. 2,168,194; Aug. 1.
Flexible pipe or tubing. P. R. Jones. 2,168,067; Aug. 1.
Flexible screen. J. Drager. 2,168,022; Aug. 1.
Flotation apparatus. A. J. Weinig. 2,167,788; Aug. 1.
Fluid operated pump jack. G. H. Britter. 2,167,623; Aug. 1.
Fluid segregating apparatus. D. Samiran. 2,167,682; Aug. 1.
Foldable cabinet. E. Zimmern. 2,167,861; Aug. 1.
Folder, Novelty. W. Franke. 2,168,025; Aug. 1.
Frame: *See*—
Flat knitting frame. Tractor frame.
Seat frame.
Frothed, cellular, or spongelike product of colloidal origin, Making. T. L. Shepherd. 2,168,246; Aug. 1.
Fuel feeding device for internal combustion engines. R. L. Kent and M. D. Scott. 2,167,892; Aug. 1.
Furnace: *See*—
Heat treating furnace. Oil burning furnace.
Incinerator furnace.
Furnace and control means therefor, Rail treatment. A. G. Whitting and J. F. Headlee. 2,167,922; Aug. 1.
Fuse, Renewable. G. R. Brown. 2,168,153; Aug. 1.
Game. H. Olken. 2,167,847; Aug. 1.
Game. J. Polanco. 2,168,104; Aug. 1.
Game. A. L. Rausher. 2,168,171; Aug. 1.
Game. D. H. Sweet. 2,167,915; Aug. 1.
Game apparatus. I. H. Wilsey. 2,167,703; Aug. 1.
Game device. W. R. Price. 2,167,775; Aug. 1.
Gases, Treatment of hydrocarbon. A. V. Grosse. 2,167,650; Aug. 1.
Gasket. J. G. Dickson. 2,167,643; Aug. 1.
Gate: *See*—
Farm gate.
Gearing, Variable speed. T. B. Martin. 2,167,846; Aug. 1.
Gearshift, Automatic. G. W. Watson. 2,167,921; Aug. 1.
Getter and the application therefor. L. D. Lockwood. 2,167,762; Aug. 1.
Girdle. H. Van Praag. 2,168,009; Aug. 1.
Glass and apparatus and method for manufacture thereof, Sheet. I. O. Pedersen and C. P. Byrnes. 2,167,905; Aug. 1.
Glass building block. W. O. Lytle. 2,167,764; Aug. 1.
Glass slab for the construction of walls and illuminated covers. A. Favaron. 2,168,287; Aug. 1.
Glider or ski, Snow. E. Wennerstrom. 2,168,144; Aug. 1.
Golf ball, Making. B. Bogoslowsky. 2,167,869; Aug. 1.
Governing system for elastic fluid engines. R. J. Caughey. 2,168,155; Aug. 1.
Grapefruit implement. A. Lesponne. 2,167,898; Aug. 1.
Grille, Flexible. M. L. Cornell, A. H. Graff, and R. K. Bennett. 2,167,875; Aug. 1.
Grinding machine. V. W. Gideon. 2,167,647; Aug. 1.
Grooving machine. R. F. Onsrud. 2,168,234; Aug. 1.
Guard, Traffic. E. V. Camp. 2,167,635; Aug. 1.
Gun, Sub-machine. L. N. Nomar. 2,167,672; Aug. 1.
Hair waver. G. Yates. 2,168,014; Aug. 1.
Hair waving apparatus. E. O. Frederics. 2,167,831; Aug. 1.
Hand luggage handle. G. H. Wheary. 2,168,077; Aug. 1.
Handle: *See*—
Hand luggage handle.
Harrow, Disk. R. B. Mitchell. 2,167,768; Aug. 1.
Harvester. T. C. Lloyd-Jones and S. E. Kinnear. 2,167,980; Aug. 1.
Headlight testing apparatus. G. M. Graham and C. W. MacMillan. 2,167,803; Aug. 1.
Heat exchange apparatus. A. J. Larrecq. 2,168,166; Aug. 1.
Heat exchange apparatus, Fluid. L. Koolstra. 2,167,659; Aug. 1.
Heat treating furnace, Continuous. G. O. Ackerman and P. Stewart. 2,167,821; Aug. 1.
Heat treating gears and the like, Apparatus for. F. S. Denneen and W. C. Dunn. 2,167,798; Aug. 1.
Heat treating system. J. W. Harsch. 2,168,028; Aug. 1.
Heating and spraying apparatus. J. A. Erickson. 2,167,940; Aug. 1.
Heating system, Combined building and domestic water. D. J. Stewart. 2,167,695; Aug. 1.
Heavy nailer joist. G. G. Greulich. 2,167,836; Aug. 1.
Helmet and safety hat, Combination welding. F. M. Bowers. 2,167,969; Aug. 1.
Holder: *See*—
Coin holder.
Holder for writing pads. A. R. Swanstrom. 2,167,731; Aug. 1.
Hull for boats and ships. A. A. Scowley. 2,167,688–9; Aug. 1.
Hydrocarbons, Producing light. R. M. Isham. 2,168,261; Aug. 1.
Hydrostatic brake. C. Sauzedde. 2,167,683; Aug. 1.
Hypodermic-injection apparatus. E. S. Paisley and A. F. Peters. 2,168,270; Aug. 1.
Ice accumulation, Apparatus for preventing. M. L. Taylor. 2,168,008; Aug. 1.
Idler and take-up, Automatic. J. A. Webb. 2,167,963; Aug. 1.
Ignition apparatus for internal combustion engines. W. J. Spengler. 2,167,694; Aug. 1.
Illuminated sign. L. L. Lauve, Jr. 2,167,660; Aug. 1.
Illuminated sign. L. L. Lauve, Jr. 2,168,223; Aug. 1.
Incinerator furnace. L. P. O'Hara. 2,168,044; Aug. 1.
Indicator: *See*—
Electron ray voltage indicator.
Indicator for casing cutters, Cut. J. S. Beck. 2,167,739; Aug. 1.
Indicator for deflated pneumatic tires. C. B. Smith and C. S. Harvey. 2,167,782; Aug. 1.
Ink requirements, Testing for. F. W. Hoch. 2,167,652; Aug. 1.
Insecticide. D. B. Faloon. 2,168,064; Aug. 1.
Insecticides or fungicides, Device for atomizing. H. D. Bennett. 2,167,866; Aug. 1.
Insect trap. B. Jennerich. 2,167,978; Aug. 1.
Internal combustion engine. H. Davids. 2,167,745; Aug. 1.
Internal combustion engine. E. Gray. 2,167,946; Aug. 1.
Internal combustion engine. O. Mader. 2,168,131; Aug. 1.
Iron fluoride, Treating. S. S. Svendsen. 2,167,784; Aug. 1.

Jack: *See*—
Fluid operated pump jack.
Joist or nailer stud, Structural. G. G. Greulich. 2,167,835; Aug. 1.
Kit, Traveling. J. Glasker. 2,167,926; Aug. 1.
Knife for meat choppers. W. R. and R. W. Rush. 2,168,245; Aug. 1.
Knitting machine for incorporating an elastic thread or yarn in a fabric. R. H. Lawson and A. N. Cloutier. 2,168,224; Aug. 1.
Knives, Finger rest plate on. M. Polacsek. 2,168,237; Aug. 1.
Lacing attachment for airplane cover fabric. K. Schmidt. 2,167,687; Aug. 1.
Lamp: *See*—
Portable electric lamp.
Lamp socket, Automatic switch. J. W. Hobbs. 2,167,756; Aug. 1.
Last. P. S. Jones. 2,168,292; Aug. 1.
Lasting machine. J. W. Barna. 2,167,738; Aug. 1.
Lathe. A. G. Whitehead and R. R. Raber. 2,167,790; Aug. 1.
Lathe, Bench. F. O. Hoagland. 2,167,755; Aug. 1.
Lens assembly for motion picture projection. F. T. O'Grady. 2,168,042; Aug. 1.
Lift for covered heels, Top. W. Wood, Jr. 2,167,965; Aug. 1.
Light: *See*—
Utility light.
Light polarizer, Laminated. E. H. Land. 2,168,220–1; Aug. 1.
Light polarizing device. A. M. Marks. 2,167,899; Aug. 1.
Lining, Hair inner. M. J. Sheerr. 2,168,002; Aug. 1.
Linkage for measuring instruments, Resilient. C. W. Bristol. 2,167,872; Aug. 1.
Liquid flow regulating means. S. H. Hall. 2,167,837; Aug. 1.
Liquids and semiliquids, Treating. E. C. and K. M. Eberts. 2,167,881; Aug. 1.
Liquids, Apparatus for biologic purification of. H. N. Jenks. 2,168,208; Aug. 1.
Liquids to silent electric discharge, Apparatus for subjecting. J. M. Harris, Jr., and C. A. Matherne. 2,167,718; Aug. 1.
Lock: *See*—
Double sash lock. Motor vehicle door lock.
Lock and latch. S. T. Allen. 2,167,736; Aug. 1.
Lubricant. A. F. Benning. 2,167,867; Aug. 1.
Lubricant, Extreme pressure. E. N. Klemgard and V. L. Ricketts. 2,168,262; Aug. 1.
Lubricant, Gear. G. M. Fisher. 2,168,258; Aug. 1.
Lubricating construction for roller rails for furnaces. F. T. Cope. 2,167,640; Aug. 1.
Lubrication, Sprocket chain. B. Welser and M. G. Jewett. 2,168,277; Aug. 1.
Machine for destroying grasshoppers or the like. C. Leffler and L. B. Gosselin. 2,167,923; Aug. 1.
Machine for receiving and conveying into and out of the pickling tanks, piles of sheet billets, semifinished rolled products, sheets, and other material to be pickled. K. P. Harten and A. Lerg. 2,168,205; Aug. 1.
Machine for use in applying pressure to shoe bottoms. E. I. La Chapelle. 2,167,806; Aug. 1.
Machine tool, Hydraulic. P. S. Jackson. 2,167,890; Aug. 1.
Machine tool. A. Oberhoffken. 2,167,673; Aug. 1.
Machine, Winding. C. R. Sibley. 2,167,692; Aug. 1.
Magnesium hydroxide and material for making same, Suspension of. R. A. MacArthur. 2,168,228; Aug. 1.
Manufacture of cork block and insulation. P. E. Flotron. 2,167,800; Aug. 1.
Manufacture of iron, steel and ferrous alloys from pig iron. G. W. Willis. 2,167,859; Aug. 1.
Match booking machine. E. P. Olson. 2,167,932; Aug. 1.
Match-booking machine. C. F. Wright. 2,167,934; Aug. 1.
Material, Constructional. A. C. Fischer. 2,168,289; Aug. 1.
Material, Wettable. W. Eustis and A. W. Vint. 2,168,286; Aug. 1.
Materials having an organic basis, Manufacture of. J. H. Rooney and P. R. Hawtin. 2,167,909; Aug. 1.
Mattress. M. Marsack. 2,168,037; Aug. 1.
Meter: *See*—
Electric meter. Time measuring meter.
Exposure meter. Watt hour meter.
Molding machine for molding building units. G. E. Wilson. 2,168,146; Aug. 1.
Monohalogenation products, Preparing. P. Heisel and A. Hendschel. 2,168,260; Aug. 1.
Measuring apparatus. C. B. Moore. 2,168,038; Aug. 1.
Meat tenderer. N. Ethier. 2,168,120; Aug. 1.
Mechanism for cash registers and like machines, Repeat. H. Neureiter. 2,167,771; Aug. 1.
Mechanism for charging refuse-burning furnaces. F. C. Holbrook and J. C. Zengerle. 2,167,653; Aug. 1.
Mechanism for manufacturing cylindrical container out of fibrous material suspended in a liquid. G. Held. 2,167,753; Aug. 1.
Mechanism for synchronizing tandem machines. W. Pechy. 2,167,676; Aug. 1.
Mercury salts of acetylamino substituted acids, Aromatic. C. N. Andersen. 2,167,966; Aug. 1.
Metal percarbonates, Preparation of. J. S. Reichert. 2,167,997; Aug. 1.
Metal pickling process. D. J. Beaver. 2,167,621; Aug. 1.
Microprojector. R. P. Porter. 2,168,137; Aug. 1.
Milk can filler. J. Stellitano. 2,168,055; Aug. 1.
Mill: *See*—
Paint mill. Size reducing mill.
Mill. R. S. Butler. 2,168,085–9; Aug. 1.
Mill. E. T. Meakin. 2,167,900; Aug. 1.
Mirror, Rear view. P. E. Stone. 2,168,003; Aug. 1.
Moistener. W. E. Rosebush. 2,167,727; Aug. 1.
Mold and cooling the mold, Press. F. L. O. Wadsworth. 2,167,919; Aug. 1.
Mop, Dish. H. Hertzberg. 2,167,841; Aug. 1.
Motor base. E. S. Barger. 2,167,793; Aug. 1.
Motor vehicle. F. C. Best. 2,167,868; Aug. 1.
Motor vehicle construction. C. M. Matthews. 2,167,664; Aug. 1.
Motor vehicle door lock. J. Palmer. 2,167,675; Aug. 1.
Mowers, Repair bracket support for lawn. A. M. Collot. 2,168,115; Aug. 1.
Multistage window chair. F. J. Kerber. 2,167,982; Aug. 1.
Necktie rack. G. L. Pilliod and A. O. Judson. 2,167,994; Aug. 1.
Noncorrosive electrical connector. C. C. Tolberg and B. A. Koerner. 2,168,250; Aug. 1.
Nut huller. W. C. Anderson. 2,167,704; Aug. 1.
Oar operating mechanism. C. Carlson. 2,167,636; Aug. 1.
Oil burning furnace. H. S. Woodruff. 2,168,184; Aug. 1.
Oil, Cracking hydrocarbon. V. Stapleton. 2,168,074; Aug. 1.
Oil dewaxing. A. H. Schutte. 2,168,140; Aug. 1.
Oil dewaxing. A. H. Schutte. 2,168,143; Aug. 1.
Oil purifying device. J. E. Hurn. 2,168,124; Aug. 1.
Oils, Recovery of solvents from hydrocarbon. E. R. Brownscombe and S. W. Ferris. 2,167,632; Aug. 1.
Oils, Thickening unsaturated. R. W. Richardson. 2,167,726; Aug. 1.
Operator, Garage door. C. A. Brauchler. 2,168,152; Aug. 1.
Ores, Treating phosphatic. O. Meyer. 2,168,169; Aug. 1.
Organic bodies and making same, Nitrogen-halogen. L. Lilienfeld. 2,167,661; Aug. 1.
Oscillator and associated circuit, Microwave. G. de Vries and C. G. A. von Lindern. 2,168,296; Aug. 1.
Oscillator and frequency changer. G. de Vries and C. G. A. von Lindern. 2,168,295; Aug. 1.
Overload clutch. H. P. Grohn. 2,167,749; Aug. 1.
P-aminobenzenes-sulphonamide, Maltoside and preparing the same. H. Klingel and W. C. MacLennan. 2,167,719; Aug. 1.
Package. W. C. Calvert. 2,167,634; Aug. 1.
Packaging machine. G. A. Robinson. 2,168,241; Aug. 1.
Pad: *See*—
Wrist strap note pad.
Pads, Making shoe press. W. C. Durham and L. E. Best. 2,168,285; Aug. 1.
Paint mill. J. D. White. 2,167,700; Aug. 1.
Pan, Bun. J. E. Strietelmeier. 2,168,005–6; Aug. 1.
Pan, Pastry. L. C. Shelton and M. E. Rodgers. 2,167,729; Aug. 1.
Paper, Adhesive coated. H. R. Dalton. 2,167,711; Aug. 1.
Paper fastener. C. I. Wagner. 2,167,920; Aug. 1.
Paper, film, or the like, Manufacturing continuous coated sheets of. R. E. Smith and K. T. Molin. 2,168,051; Aug. 1.
Partition, Insulating. W. A. Cook. 2,168,299; Aug. 1.
Patterns on fabric, Method of and apparatus for production of raised. K. Weitt. 2,167,819; Aug. 1.
Patty-forming machine. C. W. Coseboom. 2,167,876; Aug. 1.
Pen, Fountain. E. R. A. G. Rösler, H. W. Schwarting, and K. R. W. Kressel. 2,167,815; Aug. 1.
Pencil clip. C. C. Harris. 2,167,717; Aug. 1.
Periodic rotary switch. F. B. Hale. 2,167,750; Aug. 1.
Periscope. J. C. Karnes. 2,167,657; Aug. 1.
Permanent waving device. D. Lakenbach. 2,168,219; Aug. 1.
Phenols, Desulphurization of alkyl. M. de Simo and A. P. Brady. 2,168,256; Aug. 1.
Photoelectric tube. H. C. Rentschler and D. E. Henry. 2,167,777; Aug. 1.
Photoelectrically responsive layer. P. Görlich. 2,168,259; Aug. 1.
Photographic enlarging apparatus. F. Busse. 2,168,190; Aug. 1.
Photographic image and method of and apparatus for viewing the same. H. Lewin. 2,168,225; Aug. 1.
Photographic material for color photography. B. Wendt. 2,168,182; Aug. 1.
Photographic materials. H. Verkinderen. 2,167,732; Aug. 1.
Photographic treating bath. H. Ulrich, K. Saurwein, P. Coldacker, and G. L. Maiser. 2,168,181; Aug. 1.
Picker for looms. J. F. Foehr. 2,167,830; Aug. 1.
Picture projection, Color motion. F. T. O'Grady. 2,168,041; Aug. 1.
Pig casting machine. J. W. Ferree. 2,167,883; Aug. 1.
Pigments, Preparation of titanium dioxide. H. V. Alessandroni. 2,167,626; Aug. 1.
Pigments, Preparation of titanium dioxide. H. V. Alessandroni. 2,167,628; Aug. 1.
Pile foundation support. C. A. Orr and E. W. Riemenschneider. 2,168,269; Aug. 1.

Pillow or the like. M. Bentivoglio. 2,167,622; Aug. 1.
Pin: *See*—
  Corsage pin.
Pipe aligning clamp. J. B. Graham and R. G. Mayer. 2,167,887; Aug. 1.
Pipe coupling. V. Beecher. 2,167,865; Aug. 1.
Pipe joints, Apparatus for aligning, welding, and testing. J. B. Graham and R. G. Mayer. 2,167,886; Aug. 1.
Piston. J. N. Martin. 2,167,811; Aug. 1.
Piston. A. V. Nicolle. 2,168,103; Aug. 1.
Piston pump. C. Gausmann. 2,168,122; Aug. 1.
Plant and insect eradicator. E. V. Hawkins and S. Indermuhle. 2,168,099; Aug. 1.
Plaster base. J. Reid. 2,167,998; Aug. 1.
Plate, Interlocking flashing. B. Hanson. 2,168,204; Aug. 1.
Platform, Pole or tower. R. C. Barnes. 2,168,111; Aug. 1.
Pleats, Forming. A. M. Hess. 2,167,651; Aug. 1.
Plug: *See*—
  Spark plug. Top-cementing plug.
Plug, Cementing. S. R. Robinson. 2,167,778; Aug. 1.
Plug for lining up and welding casing and line pipe. J. B. Graham and R. G. Mayer. 2,167,896; Aug. 1.
Pocket toilet set container. M. Schnider. 2,168,073; Aug. 1.
Polymerzation of 1,2-dihydronaphthalene and polymer. J. F. Walker. 2,168,011; Aug. 1.
Polymerization of unsaturated compounds. J. N. J. Perquin and H. Stokman. 2,168,271; Aug. 1.
Portable electric lamp. B. E. White. 2,167,789; Aug. 1.
Powder manufacture, Black. C. W. Brooks, Jr. 2,168,020; Aug. 1.
Practice board. F. W. Tetzman. 2,167,696; Aug. 1.
Press: *See*—
  Belt-hook press. Printing press.
  Double-acting press. Racket press.
Pressure gauge for automobile tires. E. J. Willis. 2,168,145; Aug. 1.
Printing press, Web-fed. C. J. MacArthur. 2,168,229; Aug. 1.
Propelling device, Vibrating. E. Levay. 2,167,985; Aug. 1.
Prospecting method and apparatus, Electrical. C. B. Bazzoni and J. Razek. 2,167,630; Aug. 1.
Public address system. L. Kamenarović. 2,168,163; Aug. 1.
Pulverizer. R. S. Butler. 2,168,090; Aug. 1.
Pump: *See*—
  Displacement dipper pump. Piston pump.
Rack: *See*—
  Cabinet rack. Necktie rack.
Racket press. L. C. Doll. 2,168,119; Aug. 1.
Radiator, Heating. A. N. A. Anderson. 2,167,822; Aug. 1.
Radio direction finder. S. R. Wagner. 2,167,787; Aug. 1.
Rail fastening. W. H. Bailey. 2,167,864; Aug. 1.
Rail fastening. W. S. Boyce. 2,167,870; Aug. 1.
Rake cleaning device. C. E. Powell and C. F. Wood. 2,168,238; Aug. 1.
Ramming device on the Diesel principle. M. Kliecksee. 2,167,983; Aug. 1.
Ramp for railway crossings, Retractable. W. E. Christie and O. Schroeder. 2,168,061; Aug. 1.
Rat trap. L. C. Heldinger. 2,168,065; Aug. 1.
Reamer body. O. Hammer. 2,168,017; Aug. 1.
Receiver, Multiband. N. P. Case. 2,168,193; Aug. 1.
Receptacle and cigarette maker, Combination tobacco. A. J. Planan, J. Thompson, and O. Hoyden. 2,167,773; Aug. 1.
Receptacle filling machine. I. I. Kotcher. 2,167,894; Aug. 1.
Reduction. R. S. Butler. 2,168,081; Aug. 1.
Reel: *See*—
  Cantilever winding reel.
Reel. L. E. Lovett. 2,167,662; Aug. 1.
Refrigerated cabinet. S. V. Swanson. 2,168,007; Aug. 1.
Refrigerating delivery vehicle. B. L. Hartz. 2,168,018; Aug. 1.
Refrigerating system, Absorption. R. S. Nelson. 2,167,903; Aug. 1.
Refrigeration. R. E. Lyford. 2,167,663; Aug. 1.
Refrigeration. M. H. McMechan. 2,167,667; Aug. 1.
Refrigeration. A. R. Thomas. 2,167,697; Aug. 1.
Register, Accounts. A. C. Schroeder. 2,168,001; Aug. 1.
Register, Cash. C. W. Green. 2,167,715; Aug. 1.
Regulator: *See*—
  Window regulator.
Regulator for carburetors, Feed. F. J. Sachs. 2,167,961; Aug. 1.
Resins, Production of phenol-aldehyde-lignin. C. A. Hochwalt and M. Plunguian. 2,168,160; Aug. 1.
Retard device for automatic fire control systems. E. H. Rouse. 2,168,244; Aug. 1.
Roll, especially suitable for use in paper making machines. W. H. Millspaugh. 2,168,233; Aug. 1.
Roller bit. M. D. Carleton. 2,168,192; Aug. 1.
Rubber article, Making a sponge. R. E. Riley. 2,167,999; Aug. 1.
Rubber derivative. B. S. Garvey. 2,168,279; Aug. 1.
Rule, Slide. C. M. Bernegau. 2,168,056; Aug. 1.
Safety appliance for airplanes. A. Cozzitorto. 2,168,094; Aug. 1.
Salvage device. A. C. Messier. 2,167,989; Aug. 1.
Sanitary toothpick dispenser. E. E. Simons. 2,167,855; Aug. 1.
Sash stay and fastener. C. O. Goserud. 2,167,834; Aug. 1.
Saw arbor. I. R. Cosby and C. E. Goodell. 2,167,744; Aug. 1.
Saw, Circular. H. E. Tautz. 2,168,282; Aug. 1.
Scoring means in printing presses. D. R. Donnell. 2,167,746; Aug. 1.
Screen: *See*—
  Flexible screen.
Screw or screw bolt. P. Schaurte. 2,168,000; Aug. 1.
Seal assembly, Fluid. J. A. Lignian and R. P. Koehring. 2,167,986; Aug. 1.
Sealing device, Door. C. G. Raible. 2,167,776; Aug. 1.
Sealing structure. L. B. Molyneux. 2,167,669; Aug. 1.
Seat frame. C. W. Avery. 2,167,863; Aug. 1.
Separation apparatus. J. Mann. 2,167,988; Aug. 1.
Separator. E. Henderson, J. B. Reddick, and B. M. Laulhere. 2,167,839; Aug. 1.
Severing device for use in bookbinding and other operations. A. J. Kiteat. 2,168,035; Aug. 1.
Sewing apparatus, Portable. J. P. Weis. 2,168,276; Aug. 1.
Sewing machines, Whip-stitching attachment for. J. T. Sandberg. 2,168,139; Aug. 1.
Sheet feeding machine. H. T. Backhouse. 2,167,823; Aug. 1.
Sheet material, Extruding. A. C. Fischer. 2,168,288; Aug. 1.
Sheet material, Ornamental. A. Werthelm. 2,168,252; Aug. 1.
Shelf edging, Pleated. E. Karfoll. 2,167,759; Aug. 1.
Shingle. L. Kirschbraun. 2,168,217; Aug. 1.
Shingle, Mastic. L. Kirschbraun. 2,168,218; Aug. 1.
Shoe and making same. S. Wexler. 2,167,858; Aug. 1.
Shoe last models, Making. W. M. Biddle. 2,167,796; Aug. 1.
Shoes, Manufacture of. H. C. King. 2,167,658; Aug. 1.
Shoes, Production of. H. Rollmann. 2,168,243; Aug. 1.
Shoetree. M. S. Kissel. 2,168,034; Aug. 1.
Shot, Bird. R. L. Dowdell and R. G. Green. 2,167,828; Aug. 1.
Sideband modulation. N. E. Lindenblad. 2,167,722; Aug. 1.
Sifter. N. F. Lingle. 2,168,130; Aug. 1.
Sign: *See*—
  Illuminated sign.
Sign. E. B. Hand. 2,167,838; Aug. 1.
Sign apparatus and method, Illuminated. J. G. Best. 2,168,113; Aug. 1.
Signal: *See*—
  Electric traffic signal.
Signal and mechanism therefor, Warning. F. E. Weld and H. S. Smith. 2,167,964; Aug. 1.
Signal apparatus, Vehicle. P. W. Rom. 2,167,680; Aug. 1.
Signaling device for typewriters. J. Y. Payton. 2,168,070; Aug. 1.
Signaling device, Sheet-end. W. J. English. 2,168,195; Aug. 1.
Siliceous materials, Beneficiating titanium-bearing. H. V. Alessandroni. 2,167,627; Aug. 1.
Size-reducing apparatus. R. S. Butler. 2,168,084; Aug. 1.
Size-reducing mill. C. F. Osgood. 2,168,092–3; Aug. 1.
Sizing porous metal bearings. J. A. Lignian. 2,168,227; Aug. 1.
Slicing machine. H. J. Criner. 2,167,939; Aug. 1.
Slideway for wheel carriages of gear-grinding machines. A. Stephan. 2,168,275; Aug. 1.
Solder. G. Purkardhofer and G. Battilana. 2,167,678; Aug. 1.
Solvent extraction and recovery. E. R. Smoley. 2,167,730; Aug. 1.
Sound film, Method and apparatus for printing. L. Dewan. 2,167,642; Aug. 1.
Sound recorder and reproducer. H. J. Smith. 2,167,817; Aug. 1.
Spark plug. A. C. Hastings, Jr. 2,168,206; Aug. 1.
Spark plug. J. M. Watts, J. Freesh, and F. Borchers. 2,168,019; Aug. 1.
Speaker unit. E. P. Albano. 2,167,625; Aug. 1.
Speed reducer. J. W. Kittredge. 2,168,164; Aug. 1.
Spindle and spindle bearing. C. Staufert. 2,168,247; Aug. 1.
Spool. L. E. Nykamp. 2,167,957; Aug. 1.
Spool mounting for wire spooler mechanism, Adjustable. W. D. Pierson and R. E. Walsh. 2,167,851; Aug. 1.
Spouts to containers, Securing soft metal. J. M. Hothersall. 2,167,654; Aug. 1.
Sprender for concrete forms. B. Hillberg. 2,167,888; Aug. 1.
Stabilized oscillating circuit. R. L. Snyder. 2,168,052; Aug. 1.
Staple, Upholstery. P. Walenta. 2,168,076; Aug. 1.
Starter drive, Engine. C. S. Janes. 2,167,891; Aug. 1.
Steering and braking mechanism, Combined. W. W. Gilbert. 2,168,201; Aug. 1.
Steering mechanism. F. A. Fox. 2,167,943; Aug. 1.
Stencil hawk. W. J. Weesner. 2,167,699; Aug. 1.
Step, Amphibian hull resilient. W. S. Diehl. 2,167,644; Aug. 1.

Stereo-optic instrument. H. Sauer and O. Vierling. 2,168,273; Aug. 1.
Stereophotography. G. Wilmanns and W. Schneider. 2,168,183; Aug. 1.
Sticks, Balancing. O. Olsen. 2,167,992; Aug. 1.
Still construction and the like. C. F. Pollen. 2,168,272; Aug. 1.
Stock control means. C. L. Claff. 2,167,637; Aug. 1.
Stoker. G. R. McGee. 2,167,955; Aug. 1.
Strainer box. J. W. Morse. 2,168,039; Aug. 1.
Strip material, Apparatus for coiling. C. C. Cadden. 2,167,971; Aug. 1.
Structure, Chemically resistant. H. H. Harkins. 2,167,716; Aug. 1.
Structural member. R. T. McGee. 2,167,666; Aug. 1.
Structural unit, Expanded-metal. H. A. Faber. 2,168,196; Aug. 1.
Strut, Shock. C. V. Johnson. 2,167,928; Aug. 1.
Stud or strip, Furring. F. M. Small. 2,167,816; Aug. 1.
Suction cleaner. B. C. Becker. 2,167,740; Aug. 1.
Suction cleaner. C. H. Taylor. 2,167,785–6; Aug. 1.
Support: *See*—
  Arch support. Pile foundation support.
  Brake gear support.
Supporting means, Cycle-saddle. F. W. Schwinn. 2,167,912; Aug. 1.
Surface, Protective. R. A. Crawford. 2,167,972; Aug. 1.
Suspension, Front end. M. A. Luce. 2,167,763; Aug. 1.
Suspension, Individual. J. W. Leighton. 2,167,984; Aug. 1.
Suspension system for vehicles. G. H. Schieferstein. 2,167,911; Aug. 1.
Swing, Child's. G. B. Bentz. 2,177,794; Aug. 1.
Switch: *See*—
  Electric switch. Periodic rotary switch.
Switch structure. C. J. Breitenstein. 2,168,057; Aug. 1.
Switching system. P. Verplanck. 2,168,010; Aug. 1.
Synchronizing system. H. T. Seeley. 2,168,175; Aug. 1.
Synchronizing system. R. Urtel. 2,168,251; Aug. 1.
System of distribution. H. O. Stephens. 2,168,177; Aug. 1.
Table utility arrangement. J. Borlo. 2,167,742; Aug. 1.
Tail straightener. R. D. Hulse. 2,167,889; Aug. 1.
Tap, Dancing. A. L. Sothen. 2,168,303; Aug. 1.
Tape, labels, and the like, Applying gummed. H. F. and J. V. Bauer and D. M. Hawley. 2,167,629; Aug. 1.
Telemetering. A. Arnold. 2,168,149; Aug. 1.
Telephone system. T. F. Crocker. 2,167,710; Aug. 1.
Telephone system. W. Pfaff. 2,167,725; Aug. 1.
Tetra alkali-metal pyrophosphate and chlorine, Manufacture of. F. C. Jelen. 2,167,757; Aug. 1.
Textiles, Dressing. G. Balle and G. Schulz. 2,168,253; Aug. 1.
Textiles, Washing and centrifuging. A. A. Loweke. 2,168,068; Aug. 1.
Thermal seal. W. C. Calvert. 2,168,015; Aug. 1.
Thread, Producing a testing. P. Litty. 2,167,808; Aug. 1.
Threshold. P. R. Oftedal and D. G. Kingsley. 2,167,958; Aug. 1.
Time-measuring meter, Coin-controlled. J. B. McGay, G. E. Nicholson, and C. C. Magee. 2,168,302; Aug. 1.
Tips to bases, Welding small. B. C. Chandler. 2,167,925; Aug. 1.
Tire spreaders. O. C. Kalbfleisch. 2,167,981; Aug. 1.
Tomato lug filler. A. H. Hinman. 2,168,100; Aug. 1.
Tool: *See*—
  Boring tool. Machine tool.
Tool post and holder. J. R. Jackson. 2,168,162; Aug. 1.
Tooth brush. B. M. Levin and I. Fleischmann. 2,167,761; Aug. 1.
Top-cementing plug. Z. A. Dyer. 2,167,747; Aug. 1.
Torque-indicating wrench. W. C. Kress. 2,167,720; Aug. 1.
Toy. G. W. Clanton. 2,167,937; Aug. 1.
Tractor coupling. J. M. Martin. 2,168,265; Aug. 1.
Tractor frame. F. A. Ostenberg. 2,167,848; Aug. 1.
Traffic controlling apparatus, Railway. J. M. Pelikan. 2,167,993; Aug. 1.
Transfer copying material. J. Groák. 2,168,098; Aug. 1.
Transformer. G. Camilli. 2,168,154; Aug. 1.
Transforming means. C. A. Sabbah and L. W. Morton. 2,168,173; Aug. 1.
Transmission gearing and power take-off. E. A. Johnston, D. B. Baker, and C. R. Rogers. 2,168,033; Aug. 1.
Transmission mechanism. L. Dewan. 2,167,641; Aug. 1.
Transmission mechanism. H. Laflechc. 2,167,953; Aug. 1.
Transmission system, Electric. N. Japolsky. 2,168,032; Aug. 1.
Transmission system, Hydraulic. H. J. Keitel. 2,168,215; Aug. 1.
Transmission, Variable speed gear. S. C. Gebert. 2,167,748; Aug. 1.
Transmission, Variable speed. W. P. Schnitter. 2,168,274; Aug. 1.
Trailer. W. J. Miller. 2,168,069; Aug. 1.
Trailer for motor vehicles. C. F. Davey. 2,168,062; Aug. 1.
Trailer, Motor vehicle. D. D. Arehart. 2,168,147; Aug. 1.
Transmission, Automatic change speed. E. R. Burtnett. 2,167,873; Aug. 1.
Trap: *See*—
  Insect trap. Rat trap.
Trap. N. J. Marshall. 2,168,132; Aug. 1.
Tray, Ice. H. D. Geyer. 2,168,200; Aug. 1.
Trowel. C. E. Pritz. 2,167,996; Aug. 1.
Truck, Lift. A. M. Barrett. 2,167,968; Aug. 1.
Tube: *See*—
  Photoelectric tube.
Tube cutting machine. R. V. Green. 2,168,203; Aug. 1.
Tubular element for boiler walls. T. E. Murray, Jr. 2,167,901; Aug. 1.
Turning device. A. B. Bennes. 2,167,924; Aug. 1.
Two-stroke engine. J. Ehrlich. 2,168,096; Aug. 1.
Typewriter ribbon. S. A. Neidich. 2,167,990; Aug. 1.
Typewriting machines, Escapement device for. K. R. Müller. 2,167,812; Aug. 1.
Umbrella and producing the same, Self-rolling. A. Wright. 2,167,860; Aug. 1.
Umbrella, Collapsible. H. Bernhard. 2,168,188; Aug. 1.
Utility light. F. F. Dickson. 2,168,118; Aug. 1.
Utility table for motor vehicles. R. G. Hawksely. 2,168,210; Aug. 1.
Valve. R. Bischoff. 2,168,254–5; Aug. 1.
Valve. L. C. Jordan. 2,167,952; Aug. 1.
Valve handle, wheel, and the like. V. P. Rumely. 2,168,072; Aug. 1.
Valve unit or valve guide puller. H. W. Kulp. 2,167,897; Aug. 1.
Vanity attachment for bathtubs. G. B. Bentz. 2,167,795; Aug. 1.
Vanity case. F. M. Williamson. 2,167,702; Aug. 1.
Vapor electric device. E. M. Kaegi. 2,167,844; Aug. 1.
Varnishes, Apparatus for thinning. H. R. Ayres and S. L. Winslow. 2,168,278; Aug. 1.
Vehicle: *See*—
  Automobile vehicle. Motor vehicle.
  Dump vehicle.
Vehicle body. W. C. Nabors. 2,168,268; Aug. 1.
Vehicle control, Motor. L. H. Messinger, Jr. 2,168,232; Aug. 1.
Venetian blind. B. H. Hepworth. 2,167,840; Aug. 1.
Vibrator. A. W. Mall. 2,167,987; Aug. 1.
Vise, Pipe. H. J. Kane. 2,168,126; Aug. 1.
Volume control, Automatic. M. N. Pack. 2,168,045; Aug. 1.
Warp stop motion. B. Plunkett. 2,167,907; Aug. 1.
Washer. D. H. Gillham and G. H. Meade. 2,167,944; Aug. 1.
Watches, Keyless winding for. H. Colomb. 2,167,797; Aug. 1.
Water closet. S. Duner. 2,167,645; Aug. 1.
Water-level control. R. O. Monroe. 2,168,267; Aug. 1.
Watt-hour meter, Electric. F. P. Fulmer and J. S. Hollingsworth. 2,167,832; Aug. 1.
Wax from oil, Separation of. U. B. Bray. 2,167,970; Aug. 1.
Wax, Method of separating. A. H. Schutte. 2,168,306; Aug. 1.
Wax, Separating. A. H. Schutte. 2,168,141–2; Aug. 1.
Weather stripping, Metal. F. W. Kammerer. 2,167,656; Aug. 1.
Web renewing. A. H. Mackley. 2,167,810; Aug. 1.
Welding. P. P. Alexander. 2,168,185; Aug. 1.
Wells, Flowing oil. W. J. Crites and W. B. Lerch. 2,168,116; Aug. 1.
Wheel: *See*—
  Abrasive wheel.
Wheel. R. J. Burrows and A. O. Williams. 2,167,633; Aug. 1.
Window construction. O. M. Edwards. 2,167,973–4; Aug. 1.
Window construction. W. Owen. 2,167,772; Aug. 1.
Window regulator. J. H. Roethel. 2,168,242; Aug. 1.
Windrowing, Method and apparatus for. W. H. McElwain. 2,168,266; Aug. 1.
Windshield wiper. A. B. Grantham. 2,168,202; Aug. 1.
Wood and other vegetable materials, Patinating. E. Plantrou. 2,167,813; Aug. 1.
Wrench: *See*—
  Torque indicating wrench.
Wrist strap note pad. R. E. Kinney. 2,167,893; Aug. 1.
Yarn containing staple fiber from continuous filaments, Production of. W. I. Taylor and A. H. Woodruff. 2,167,916; Aug. 1.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 1, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 2: 2,167,934
49.4: 2,167,820
2,168,168
2— 8: 2,167,969
27: 2,168,009
93: 2,168,002
4— 85: 2,167,645
173: 2,168,079
185: 2,167,795
5— 338: 2,167,622
351: 2,168,037
8— 46: 2,167,779
159: 2,168,068
9— 25: 2,167,636
12— 7: 2,167,738
33: 2,167,806
51: 2,168,159
129.1: 2,168,034
139: 2,168,292
142: 2,167,858
146: 2,167,658
2,167,796
15— 16: 2,167,785
131: 2,167,841
133: 2,168,179
135: 2,167,761
181: 2,167,949
250: 2,168,202
16— 115: 2,168,077
117: 2,168,072
17— 27: 2,168,120
18— 1: 2,167,801
5: 2,168,075
8: 2,168,027
47.5: 2,168,127
2,168,289
48: 2,167,734
2,167,800
2,168,020
53: 2,167,999
55: 2,168,288
56: 2,168,285
57: 2,167,909
58: 2,167,724
59: 2,168,243
19— 1: 2,167,916
24: 2,168,095
98: 2,167,808
20— 4: 2,168,299
6: 2,167,696
56.4: 2,167,772
64: 2,167,958
68: 2,167,776
69: 2,167,656
22— 62: 2,167,883
212: 2,167,906
23— 22: 2,168,169
62: 2,167,997
106: 2,167,757
162: 2,167,708
177: 2,168,150
232: 2,168,236
24— 6: 2,167,671
85: 2,168,076
136: 2,167,799
153: 2,167,920
25— 41: 2,168,146
26— 69: 2,167,819
28— 51: 2,167,907
29— 86.3: 2,167,897
89: 2,168,115
148.2: 2,167,654
149.5: 2,168,227
2,168,301
30— 24: 2,167,898
43: 2,167,833
221: 2,168,189
295: 2,168,237
33— 225: 2,168,112
36— 8.3: 2,168,303
35: 2,167,965
71: 2,167,933
37— 133: Re. 21,170
39— 44: 2,167,825
40— 7: 2,167,637
130: 2,167,791
2,168,113
2,168,225
133: 2,167,660
2,168,223
140: 2,167,838
41— 10: 2,167,759
41: 2,167,813
42— 4: 2,167,672
43— 48: 2,167,945
69: 2,168,065
87: 2,168,132
121: 2,167,978
138: 2,167,923
46— 36: 2,168,025
47: 2,167,992
49— 40: 2,167,919
83.1: 2,167,905
92: 2,168,220
51— 33: 2,167,948
34: 2,167,647
2,167,758
166: 2,168,275
206: 2,168,283
280: 2,168,281
52— 5: 2,167,679
15: 2,168,030
16: 2,167,849
53— 5: 2,167,995
6: 2,167,729
2,168,005
2,168,006
54— 78: 2,167,889
55— 65: 2,167,754
83: 2,167,768
146: 2,168,238
56— 185: 2,167,980
376: 2,168,266
57— 88: 2,168,249
130: 2,168,248
58— 35: 2,167,829
90: 2,167,797
59— 84: 2,168,029
60— 16: 2,167,951
52: 2,167,623
54.6: 2,167,721
2,168,215
61— 25: 2,168,117
53: 2,168,269
62— 2: 2,167,667
4: 2,168,157
89.5: 2,168,007
108.5: 2,168,200
119.5: 2,167,663
2,167,697
2,167,903
66— 89: 2,168,194
134: 2,168,224
69— 21: 2,168,252
70— 150: 2,167,736
71— 2: 2,168,304
72— 41: 2,167,764
42: 2,168,287
110: 2,168,196
115: 2,167,666
116: 2,167,998
128: 2,167,699
136: 2,167,996
73— 51: 2,167,652
111: 2,168,145
151: 2,167,872
2,168,038
290: 2,168,106
74— 7: 2,167,891
10: 2,167,677
210: 2,167,641
237: 2,167,942
242.11: 2,167,963
257: 2,168,277
74— 260: 2,167,873
2,167,953
281: 2,168,274
305: 2,168,164
326: 2,168,033
334: 2,167,921
354: 2,167,748
368: 2,167,846
486: 2,168,201
513: 2,167,843
2,167,868
564: 2,167,959
75— 1: 2,167,627
54: 2,167,859
134: 2,167,678
135: 2,168,129
159: 2,167,684
76— 107: 2,167,880
108: 2,168,060
77— 3: 2,167,673
81— 19: 2,168,126
82— 4: 2,167,766
2,167,767
6: 2,167,755
29: 2,167,790
36: 2,168,162
83— 9: 2,168,081
2,168,082
2,168,083
2,168,084
2,168,085
2,168,086
2,168,087
2,168,089
2,168,090
2,168,091
2,168,092
2,168,093
11: 2,167,954
22: 2,167,700
37: 2,167,704
46: 2,168,088
93: 2,168,026
2,168,226
84— 240: 2,167,670
85— 1: 2,167,910
2,168,000
87— 5: 2,168,024
9: 2,167,867
2,168,262
88— 14: 2,167,803
2,167,884
14.2: 2,167,853
16.4: 2,168,041
2,168,042
18.4: 2,167,713
2,168,043
2,168,054
23: 2,168,133
24: 2,167,642
2,168,137
2,168,190
45: Re. 21,167
65: 2,167,899
2,168,221
68: 2,167,657
93: 2,168,003
89— 1: 2,168,114
33: 2,168,199
90— 38: 2,167,890
91— 43: 2,167,727
50: 2,168,222
68: 2,167,711
2,168,253
2,168,286
69: 2,168,051
92— 49: 2,168,233
58: 2,167,753
93— 1: 2,167,728
2: 2,167,770
2,167,932
93— 6: 2,168,241
44: 2,167,814
94— 18: 2,167,904
95— 2: 2,167,732
2,168,182
5: 2,168,183
18: 2,168,273
44: 2,168,263
88: 2,168,181
96— 13: 2,167,930
97— 154: 2,168,213
209: 2,168,004
99— 2: 2,167,723
4: 2,168,138
81: 2,168,246
181: 2,168,107
205: 2,167,881
101— 157: 2,167,693
181: 2,168,229
102— 26: 2,167,828
104— 31: 2,168,061
35: 2,168,010
105— 182: 2,168,293
215: 2,167,763
106— 11: 2,168,230
107— 8: 2,167,900
15: 2,167,876
108— 8: 2,168,217
2,168,218
26: 2,168,204
110— 18: 2,168,044
45: 2,167,955
118: 2,167,653
111— 7: 2,168,099
112— 11: 2,168,276
134: 2,167,857
162: 2,168,139
113— 45: 2,167,941
102: 2,167,887
103: 2,167,886
2,167,896
112: 2,168,185
120: 2,167,737
114— 52: 2,167,989
56: 2,167,688
2,167,689
66.5: 2,167,644
119— 33: 2,167,956
120— 47: 2,167,815
84: 2,167,717
122— 156: 2,168,184
225: 2,168,197
303: 2,167,659
356: 2,168,272
123— 7: 2,167,983
51: 2,167,946
53: 2,168,096
117: 2,167,902
169: 2,168,019
2,168,206
173: 2,168,131
176: 2,168,103
182: 2,167,854
195: 2,167,745
126— 289: 2,168,021
318: 2,168,066
128— 214: 2,168,270
227: 2,168,239
129— 13: 2,167,685
130— 5: 2,167,967
131— 5: 2,167,773
132— 32: 2,168,014
36: 2,167,831
36.2: 2,168,219
79: 2,167,926
2,168,073
83: 2,167,702
86: 2,168,235
133— 5: 2,167,668
134— 3: 2,167,638
12: 2,167,751
134— 26: 2,168,278
50: 2,167,752
58: 2,167,626
2,167,628
59: 2,167,784
60: 2,167,674
79: 2,168,040
135— 1: 2,167,861
22: 2,167,860
136— 37: 2,167,809
137— 69: 2,167,938
101: 2,168,267
139: 2,168,255
152.5: 2,167,837
153: 2,158,254
138— 60: 2,168,067
139— 159: 2,167,830
143— 36: 2,168,282
155: 2,167,744
141— 136: 2,168,234
242: 2,167,924
303: 2,168,257
145— 124: 2,168,176
146— 88: 2,167,939
189: 2,168,245
194: 2,167,914
148— 7: 2,167,701
8: 2,167,621
11.5: 2,168,134
315: 2,168,135
2,168,156
320: 2,168,198
361: 2,168,154
176— 2: 2,167,762
40: 2,167,765
177— 328: 2,167,631
337: 2,167,680
351: 2,168,149
373: 2,167,964
178— 19: 2,168,047
20: 2,168,048
2,168,049
69.5: 2,168,251
179— 1: 2,168,163
18: 2,167,725
27: 2,167,710
2,167,733
180— 1: 2,167,929
54: 2,168,108
82: 2,167,675
181— 31: 2,167,625
183— 37: 2,167,786
107: 2,167,839
184— 1: 2,167,640
6: 2,168,122
188— 56: 2,168,294
78: 2,167,706
2,167,935
142: 2,168,058
152: 2,167,683
207: 2,168,291
209: 2,167,979
210: 2,167,712
189— 35: 2,167,816
40: 2,167,835
2,167,836
46: 2,167,707
55: 2,168,046
56: 2,167,875
64: 2,167,973
2,167,974
192— 3: 2,168,232
36: 2,167,769
55: 2,167,705
56: 2,167,749
194— 19: 2,168,302
196— 10: 2,168,261
13: 2,167,730
17: 2,168,306
18: 2,167,970
2,168,140
2,168,141
2,168,143
20: 2,168,142
32: 2,168,078
45: Re. 21,168
52: 2,167,655
2,167,698
58: 2,168,074
78: 2,168,271
151: 2,168,258
197— 84: 2,167,812
172: 2,167,990
189: 2,168,070
2,168,195
198— 81: 2,168,191
102: 2,167,676
160: 2,167,818
193: 2,168,013
200— 8: 2,168,057
24: 2,167,750
31: 2,167,694
47: 2,168,152
58: 2,167,782
113: 2,168,180
116: 2,167,648
117: 2,167,781
131: 2,168,153
134: 2,168,016
139: 2,167,824
149: 2,167,665
204— 31: 2,167,718
2,167,726
2,167,976
205— 8: 2,168,300
206— 44: 2,167,947
2,168,240
52: 2,168,105
207— 2: 2,167,845
209— 110: 2,167,871
139: 2,168,207

209— 169: 2,167,788
283: 2,168,130
210— 5: 2,168,208
55: 2,168,264
131: 2,168,125
138: 2,168,124
155: 2,168,039
211— 89: 2,167,994
143: 2,168,172
212— 8: 2,168,128
215— 51: 2,167,783
216— 62: 2,167,629
217— 26.5: 2,168,100
219— 4: 2,167,925
43: 2,168,158
220— 27: 2,167,977
54: 2,168,097
93: 2,167,619
221— 60: 2,168,080
2,168,297
67: 2,167,682
97: 2,167,690
147: 2,168,050
225— 1: 2,168,059
9: 2,168,211
226— 79: 2,167,624
85: 2,168,109
92: 2,167,895
95: 2,167,894
98: 2,168,055
229— 3.5: 2,167,634
21: 2,168,186
23: 2,167,741
34: 2,167,936
35: 2,167,913

229— 39: 2,167,917
44: 2,167,691
51: 2,167,918
230— 40: 2,168,036
58: 2,167,879
164: 2,168,216
233— 21: 2,167,988
235— 6: 2,167,714
2,167,715
7: 2,167,771
60: 2,167,760
61: 2,167,827
70: 2,168,056
144: 2,168,151
145: 2,167,620
236— 9: 2,167,695
44: Re. 21,166
91: 2,168,178
238— 338: 2,167,870
351: 2,167,864
240— 8.18: 2,168,118
59: 2,167,789
242— 3: 2,167,692
25: 2,167,851
53: 2,167,662
2,167,681
54: 2,167,971
55.5: 2,167,908
58: 2,167,810
75: 2,168,023
2,168,071
119: 2,167,957
244— 57: 2,168,166
120: 2,168,280
132: 2,167,686

244— 132: 2,167,687
134: 2,167,972
2,168,008
2,168,012
141: 2,168,094
246— 3: 2,167,993
248— 23: 2,167,793
123: 2,168,209
152: 2,168,063
288: 2,167,962
354: 2,167,888
249— 14: Re. 21,169
250— 11: 2,167,774
2,167,787
17: 2,167,722
20: 2,168,045
2,168,193
27: 2,168,031
2,168,165
27.5: 2,167,777
2,167,826
2,167,844
2,167,852
2,167,885
2,168,259
33: 2,167,709
2,167,735
36: 2,168,052
2,168,295
2,168,296
103: 2,167,802
251— 5: 2,167,952
254— 10: 2,167,968
255— 64: 2,168,102
71: 2,168,192

255— 72: 2,167,991
73: 2,168,017
256— 13.1: 2,167,635
257— 3: 2,167,878
140: 2,167,822
262: 2,167,901
259— 1: 2,167,987
99: 2,167,805
260— 30: 2,167,874
39: 2,168,212
53: 2,168,160
153: 2,167,804
175: 2,167,780
211: 2,167,719
212: 2,167,914
261: 2,168,174
404: 2,167,931
434: 2,167,966
500: 2,168,305
539: 2,168,260
557: 2,168,161
584: 2,167,661
2,167,807
612: 2,167,639
627: 2,168,256
645: 2,167,632
651: 2,168,167
656: 2,167,927
670: 2,168,011
683: 2,167,650
771: 2,168,279
261— 15: 2,167,975
28: 2,168,187
44: 2,167,892

263— 6: 2,167,821
2,167,922
264— 4: 2,168,155
265— 1: 2,167,720
266— 4: 2,167,798
5: 2,168,028
7: 2,168,205
267— 21: 2,167,911
64: 2,167,928
268— 126: 2,168,242
271— 2.4: 2,168,284
59: 2,167,823
273— 74: 2,168,119
85: 2,167,847
86: 2,167,985
96: 2,168,171
102: 2,167,775
129: 2,167,703
131: 2,167,915
134: 2,168,104
274— 11: 2,167,817
280— 1.22: 2,167,937
11.13: 2,168,144
33.13: 2,168,265
33.15: 2,168,101
33.5: 2,167,792
2,167,943
2,168,147
33.9: 2,168,148
96.2: 2,167,984
106: 2,167,848
256: 2,168,110
281— 1: 2,167,731
9: 2,167,893

282— 8: 2,168,001
26: 2,168,098
285— 90: 2,167,865
286— 11: 2,167,669
2,167,986
288— 32: 2,167,643
290— 38: 2,167,646
292— 210: 2,167,960
263: 2,167,834
295— 11: 2,167,633
296— 23: 2,168,062
24: 2,168,018
44: 2,167,664
107: 2,168,099
137: 2,168,268
298— 23: 2,168,298
299— 46: 2,167,940
95: 2,167,866
304— 27: 2,167,982
28: 2,168,111
305— 10: 2,168,053
306— 11: 2,167,740
20: 2,168,121
308— 73: 2,167,852
152: 2,168,247
309— 4: 2,167,811
311— 20: 2,168,210
312— 73: 2,167,855
78: 2,168,214
164: 2,167,742
190: 2,168,022

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,167,645: 4— 85
2,167,646: 290— 38
2,167,667: 62— 2
2,167,693: 101— 157
2,167,714: 235— 6
2,167,715: 235— 6

2,167,746: 161— 98
2,167,777: 250— 27.5
2,167,786: 183— 37
2,167,794: 155— 68
2,167,798: 266— 4
2,167,807: 260— 584

2,167,816: 189— 35
2,167,841: 15— 131
2,167,861: 135— 1
2,167,874: 260— 30
2,167,886: 113— 103
2,167,890: 90— 38

2,167,892: 261— 44
2,167,903: 62—119.5
2,167,905: 49— 83.1
2,167,934: 1— 2
2,167,971: 242— 54
2,168,108: 180— 54

2,168,115: 29— 89
2,168,124: 210— 138
2,168,134: 148— 11.5
2,168,187: 261— 28
2,168,208: 210— 5
2,168,213: 97— 154

2,168,216: 230— 164
2,168,225: 40— 130
2,168,285: 18— 56
2,168,298: 298— 23

U. S. GOVERNMENT PRINTING OFFICE: 1939

LIST OF TRADE-MARK APPLICANTS

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Altman, B., & Co., New York, N. Y. Soap. Serial No. 419,649; Aug. 8. Class 4.

American Food Products Co. (See Besso, Alec.)

American Hardware Company, Inc., Petersburg, Va. Satchels and suitcases. Serial No. 419,787; Aug. 8. Class 3.

Amplivox Limited, London, England. Apparatus for the aid of deaf persons. Serial No. 418,555; Aug. 8. Class 44.

Anabolic Food Products, Inc., Chicago, Ill. Supplemental food products. Serial No. 413,970; Aug. 8. Class 46.

Andredent Laboratories. (See Valenti, Anthony.)

Arakelian, K., Inc., doing business as Madera Wineries and Distilleries, Madera, Calif. Brandy. Serial No. 420,927; Aug. 8. Class 49.

Arlington, Robert M., Riverside, Calif. Board game. Serial No. 420,660; Aug. 8. Class 22.

Atlantic Coast Fisheries Corporation of New York, New York, N. Y. Fresh and frozen fish. Serial No. 410,766; Aug. 8. Class 46.

Awful Fresh MacFarlane, Berkeley, Calif. Salted nuts, candy, and chocolate coated nuts. Serial No. 419,535; Aug. 8. Class 46.

Baker, Ben, doing business as Ben's Bar-B-Q, Vineland, N. J. Sauce. Serial No. 418,913; Aug. 8. Class 46.

Bakers' Supply & Equipment Co., St. Paul, Minn. Puffed breakfast cereals. Serial No. 413,754; Aug. 8. Class 46.

Barrett Products Co. Inc., Boston, Mass. Pharmaceutical preparation. Serial No. 420,130; Aug. 8. Class 6.

Beam, James B., Distilling Co., Incorporated, Clermont, Ky. Whiskey. Serial No. 419,943–4; Aug. 8. Class 49.

Ben's Bar-B-Q. (See Baker, Ben.)

Besso, Alec, doing business as American Food Products Co., New York, N. Y. Whole milk powder. Serial No. 418,865; Aug. 8. Class 46.

Best & Co., Inc., New York, N. Y. Shoes, and misses' suits and coats. Serial No. 419,496; Aug. 8. Class 39.

Best & Co. Inc., New York, N. Y. Shoes. Serial No. 419,497; Aug. 8. Class 39.

Boston Shoe Company. (See Smith, Jack.)

Brier, Samuel, doing business as Samuel Brier Company, Philadelphia, Pa. Traveling bags. Serial No. 420,311; Aug. 8. Class 3.

Brillo Manufacturing Company, Inc., New York, N. Y. Soaps, cleaning, scouring and polishing wads, pads, rolls and cloths of abradant nature. Serial No. 418,811; Aug. 8. Class 4.

Brillo Manufacturing Company, Inc., New York, N. Y. Soaps, cleaning, scouring and polishing wads, pads, rolls and cloths of abradant nature. Serial No. 418,817–8; Aug. 8. Class 4.

Brown Company, Portland, Maine, and Berlin, N. H. Innersoles. Serial No. 419,908; Aug. 8. Class 39.

Brown M. Stanley, New York, N. Y. Textile fabrics. Serial No. 418,474; Aug. 8. Class 42.

Buckeye Glove Company, Toledo, Ohio. Cloth work gloves. Serial No. 417,163; Aug. 8. Class 39.

Burlington Basket Company, Burlington, Iowa. Clothes basket and stand combination. Serial No. 419,104; Aug. 8. Class 2.

Buxton, Incorporated, Springfield, Mass. Billfolds, purses, and pocket books. Serial No. 420,047; Aug. 8. Class 3.

Calbear Canneries Co., San Francisco, Calif. Canned fruits. Serial No. 412,022; Aug. 8. Class 46.

Celanese Corporation of America, New York, N. Y. Collars and outer shirts. Serial No. 420,048–9; Aug. 8. Class 39.

Cheney Bros., Manchester, Conn., and New York, N. Y. Brocaded satin. Serial No. 417,261; Aug. 8. Class 42.

Clairol, Inc., New York, N. Y. Preparation for toning the color of hair. Serial No. 420,091; Aug. 8. Class 6.

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Dento-Pak Corporation, Boston, Mass. Container made of plastic materials with a tooth brush and tube of tooth paste. Serial No. 416,633; Aug. 8. Class 50.

Dickel, Geo. A., Distilling Co., Wilmington, Del., and Lexington, Ky. Whiskey, gin, rum, etc. Serial No. 421,069–70; Aug. 8. Class 49.

Di Girolamo, Damiano, New York, N. Y. Olive oil. Serial No. 418,506; Aug. 8. Class 46.

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Dougherty's, J. A., Sons, Inc., Distillers, Philadelphia, Pa. Whiskey. Serial No. 418,869; Aug. 8. Class 49.

Duer Sales, Inc., Chicago, Ill. Candy. Serial No. 418,296; Aug. 8. Class 46.

E-Z Mills, Inc., New York, N. Y.. Hosiery. Serial No. 419,360; Aug. 8. Class 39.

Elder Manufacturing Company, St. Louis, Mo. Marbles, toy balloons, footballs, etc. Serial No. 420,944; Aug. 8. Class 22.

Elliott Corporation, The. (See Osmic Chemical Company, assignor.)

Engelman, Helen, Edinburg, Tex. Citrus juices. Serial No. 411,828; Aug. 8. Class 46.

Esmond Mills, The, Esmond, R. I. Blankets. Serial No. 420,316; Aug. 8. Class 42.

Essley Shirt Company, Inc., New York, N. Y. Negligee shirts. Serial No. 419,254; Aug. 8. Class 39.

Essley Shirt Company, Inc., New York, N. Y. Negligee and dress shirts. Serial Nos. 419,751–3; Aug. 8. Class 39.

Field, Eugene L., doing business as Field Candy Company, Parma, Ohio. Chocolate candy bar. Serial No. 419,221; Aug. 8. Class 46.

Fischman Company, The, Philadelphia, Pa. Electric sterilizers. Serial No. 415,449; Aug. 8. Class 21.

Forging and Casting Corporation, The, Ferndale, Mich. Steel. Serial Nos. 420,224–5; Aug. 8. Class 14.

Forstmann Woolen Company, Passaic and Jersey City, N. J. Woolen piece goods. Serial Nos. 420,096–7; Aug. 8. Class 42.

Fort Pitt Bedding Company, Pittsburgh, Pa. Matresses. Serial No. 420,994; Aug. 8. Class 32.

Frank, William, Company, Chicago, Ill. Musical instruments. Serial No. 405,922; Aug. 8. Class 36.

Friends Service Incorporated, Philadelphia, Pa. Sweaters. Serial No. 420,175; Aug. 8. Class 39.

Fulton Smoked Fish Co., Chicago, Ill. Smoked fish. Serial No. 412,632; Aug. 8. Class 46.

Gale Shoe Mfg. Co., Boston, Mass. Women's shoes. Serial No. 392,974; Aug. 8. Class 39.

Gamewell Company, The, Newton and Newton Upper Falls, Mass. Audio voice communication equipment and parts thereof. Serial No. 420,369; Aug. 8. Class 21.

General Box Company, Chicago, Ill. Wooden boxes. Serial No. 419,757; Aug. 8. Class 2.

General Tire & Rubber Company, Akron, Ohio. Vehicle tires, inner tubes, repair patches. Serial No. 421,139; Aug. 8. Class 35.

Gibson Electric Refrigerator Corporation, Greenville, Mich. Refrigerators. Serial No. 421,037; Aug. 8. Class 31.

Gleason Works, The, Rochester, N. Y. Gear cutting tools and blades therefor. Serial No. 420,278; Aug. 8. Class 23.

Goldwasser, Benjamin, doing business as Goldwasser Maternity Dresses, New York, N. Y. Maternity skirts and dresses. Serial No. 420,279; Aug. 8. Class 39.

Gray Tool Company, Houston, Tex. Apparatus and equipment for drilling, completing, and controlling oil wells. Serial No. 418,005; Aug. 8. Class 23.

Gregory & Read Co., Lynn, Mass. Ladies' and misses' shoes and slippers. Serial No. 419,377; Aug. 8. Class 39.

Gudebrod Brothers Silk Company, Philadelphia, Pa. Surgical ligatures and sutures. Serial No. 420,611; Aug. 8. Class 44.

Hack Shoe Company, Detroit, Mich. Shoes and insoles. Serial No. 419,208; Aug. 8. Class 39.

Hahn, Wm., & Co., Washington, D. C. Shoes. Serial No. 419,803; Aug. 8. Class 39.

Hanson-Van Winkle-Munning Company, Matawan, N. J. Metal anodes for electroplating. Serial No. 420,322; Aug. 8. Class 14.

Harmon Chemicals, Inc., Brooklyn, N. Y. Medicinal compound. Serial No. 420,135; Aug. 8. Class 6.

Harrison Paint & Varnish Company, The, Canton, Ohio. Oil paints, paint enamels and varnish. Serial No. 410,361; Aug. 8. Class 16.

House of Hollywood, Los Angeles, Calif. Cosmetics. Serial No. 419,721; Aug. 8. Class 6.

Howey, W. J., Company, Howey-in-the-Hills, Fla. Fresh citrus fruits. Serial No. 419,759; Class 46.

Hultberg, W. Earle, doing business as The Mayhi Company, Great Falls, Mont. Antiseptic powder. Serial No. 420,060; Aug. 8. Class 6.

Ilex Optical Company, Rochester, N. Y. Cameras, and camera shutters. Serial No. 420,104; Aug. 8. Class 26.

International Cigar Machinery Company, Jersey City, N. J. Cigar-making machinery and parts thereof, etc. Serial No. 417,875; Aug. 8. Class 23.

Kayser, Julius, & Co., New York, N. Y. Undergarments, slips, girdles, etc. Serial No. 419,409; Aug. 8. Class 39.

Kenya Corporation, New York, N. Y. Woven alpaca and rayon fabrics. Serial No. 418,880; Aug. 8. Class 42.

Koenig, Harry D., New York, N. Y. Face powder, lipstick, face rouge, etc. Serial No. 419,765; Aug. 8. Class 6.

Kuppenheimer, B., & Co. Inc., Chicago, Ill. Coats, vests, trousers, etc. Serial No. 417,879; Aug. 8. Class 39.

Lacy Products Corp., Chicago, Ill. Electric hot cups and fudge warmers. Serial No. 414,702; Aug. 8. Class 21.

Langer, William, Chicago, Ill. Board games. Serial No. 420,588; Aug. 8. Class 22.

Lawson Products, Inc., Pawtucket, R. I. Men's abdominal supporters or belts, surgical supporters, etc. Serial No. 419,408; Aug. 8. Class 44.

Lipman Bros., New York, N. Y. Dresses and suits. Serial No. 420,281; Aug. 8. Class 39.

Lipschultz Bros., St. Paul, Minn. Pastry rolling pin jacket and pastry cloth. Serial No. 420,536; Aug. 8. Class 42.

Macy, R. H., & Co., Inc., New York, N. Y. Top coats, overcoats, suits, etc. Serial No. 420,230; Aug. 8. Class 39.

Madera Wineries and Distilleries. (See Arakelian, K., Inc.)

Magazine Repeating Razor Company, New York, N. Y. Razors and razor blades. Serial No. 420,379; Aug. 8. Class 23.

Marrow Mfg. Corp., New York, N. Y. Hair clips, flower clips. Serial No. 419,233; Aug. 8. Class 40.

Marshall Field & Company, Chicago, Ill. Rugs. Serial No. 420,368; Aug. 8. Class 42.

Mayer, Franz, New York, N. Y. Coats, suits, dresses, etc. Serial No. 418,491; Aug. 8. Class 39.

Mayer, Franz, New York, N. Y. Sporting goods. Serial No. 418,492; Aug. 8. Class 22.

Mayhl Company, The. (See Hultberg, W. Earle.)

Merchants Distilling Corporation, Terre Haute, Ind. Whiskey. Serial No. 420,421; Aug. 8. Class 49.

Morey, Walter G., doing business as Morey Paper Mill Supply Company, Boston, Mass. Drier felts for paper machines. Serial No. 420,424; Aug. 8. Class 23.

Mulé, Anthony, doing business as Anthony Mulé & Sons, Brooklyn, N. Y. Olive oil. Serial No. 417,132; Aug. 8. Class 46.

Murcott & Campbell, Inc., New York, N. Y. Files. Serial No. 420,233; Aug. 8. Class 23.

Myers, Ralph E., doing business as Ralph E. Myers Co., Salinas, Calif. Fresh vegetables. Serial No. 419,593; Aug. 8. Class 46.

Nashua Manufacturing Company, Boston, Mass. Blankets. Serial No. 420,640; Aug. 8. Class 42.

National Aniline & Chemical Company, Inc., New York, N. Y. Dyestuffs. Serial No. 420,109; Aug. 8. Class 6.

National Grape Corporation, Brocton, N. Y. Grape juice. Serial No. 420,285; Aug. 8. Class 45.

National Lead Company, New York, N. Y. Printing appliances. Serial No. 420,385; Aug. 8. Class 23.

National Refining Company, The, Cleveland, Ohio. Antifreeze compound. Serial No. 420,286; Aug. 8. Class 6.

Niven, Mack P., Dunedin, Fla. Beverage. Serial No. 420,684; Aug. 8. Class 45.

North American Rayon Corporation, New York, N. Y. Piece goods. Serial No. 419,234; Aug. 8. Class 42.

Orrville Bedding Company, The, Orrville, Ohio. Handfinished mattresses and box springs. Serial No. 420,643; Aug. 8. Class 32.

Osmic Chemical Company, assignor to The Elliott Corporation, Brockton, Mass. Chemically treated shoe cleaners. Serial No. 417,888; Aug. 8. Class 4.

Pacific Mills, Boston, Mass. Worsted piece goods. Serial No. 420,072; Aug. 8. Class 42.

Passarelli, Inc., New York, N. Y. Suits, coats, and skirts. Serial No. 416,334; Aug. 8. Class 39.

Penn Jobbing Company. (See Steinberger, Harry.)

Rex Chemical Company, Chelsea, Mass. Waterproofing compound for leather. Serial No. 417,062; Aug. 8. Class 4.

Roddenberry, W. B., Co., Cairo, Ga. Peanut butter. Serial No. 419,347; Aug. 8. Class 46.

Rosen, Fillmore, New York, N. Y. Ladies' hosiery. Serial No. 420,136; Aug. 8. Class 39.

Routledge Mfg. Co., Monroe, Mich. Marksmanship practice game and the various apparatus therefor. Serial No. 420,971; Aug. 8. Class 22.

Rowena Stylist, Inc., New York, N. Y. Water resisting ensembles, and pajamas and bathing suits. Serial No. 419,089; Aug. 8. Class 39.

Schutter Candy Company, Chicago, Ill. Candy. Serial No. 420,116; Aug. 8. Class 46.

Schutz, Monroe, New York, N. Y. Pleatings, trimmings, bindings, etc. Serial No. 420,076; Aug. 8. Class 40.

Shelby Manufacturing Company, Shelbyville, Ind. Ladies' cotton dresses. Serial No. 419,597; Aug. 8. Class 39.

Shipman, Louis, & Baker Co., New York, N. Y. Women's coats. Serial No. 419,129; Aug. 8. Class 39.

Smith, Jack, doing business as Boston Shoe Company, Los Angeles, Calif. Shoes and slippers. Serial No. 416,776; Aug. 8. Class 39.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Anti-freeze composition. Serial No. 410,147; Aug. 8. Class 6.

Southern California Fish Corp., Terminal Island, Calif. Animal food. Serial No. 419,889; Aug. 8; Class 46.

Special Foods, Inc., Worthington, Ohio. Preparation for seasoning or flavoring soups, gravies, and other foods and for making broth, and sandwich fillers. Serial No. 419,451; Aug. 8; Class 46.

Standard Foods Co., Chicago, Ill. Canned food products. Serial No. 411,720; Aug. 8. Class 46.

Standard Steel Spring Company, Coraopolis, Pa. Protectively surfaced metals. Serial No. 419,821; Aug. 8. Class 14.

Star-Maid Dresses, Inc., New York, N. Y. Women's and misses' outerwear. Serial No. 415,561; Aug. 8. Class 39.

Steinberger, Harry, doing business as Penn Jobbing Company, Pottsville, Pa. Hosiery, underwear, sweaters, overalls, etc. Serial No. 418,607; Aug. 8. Class 39.

Stix, Baer and Fuller Company, St. Louis, Mo. Electric floor and table lamps. Serial No. 403,618; Aug. 8. Class 21.

Sunset Produce Company, San Francisco, Calif. Apples and pears. Serial No. 412,161; Aug. 8. Class 46.

Sure Rest Bedding Co., Newark, N. J. Mattresses, springs, pillows, gliders, etc. Serial No. 409,448; Aug. 8. Class 32.

Tennessee Eastman Corporation, Kingsport, Tenn. Rayon yarn. Serial No. 420,120; Aug. 8. Class 43.

Textile Machine Works, Wyomissing, Pa. Knitting machines and parts thereof and accessories and attachments therefor, topping machines, and parts thereof and accessories therefor, etc. Serial No. 418,608; Aug. 8. Class 23.

Tobin, Sporn & Glaser, Inc., New York, N. Y. Cotton cloth piece goods, lace, cotton towels, etc. Serial No. 419,938; Aug. 8. Class 42.

Valenti, Anthony, doing business as Andredent Laboratories, New York, N. Y. Powder preparation for the teeth. Serial No. 420,272; Aug. 8. Class 6.

Vandegrift, Leroy F., Shawnee, Okla., Wichita Falls, Tex., and Wichita, Kans. Chicken, fried, sliced and barbecured. Serial No. 418,079; Aug. 8. Class 46.

Varni, Caryl, New York, N. Y. Cold creams, cleansing creams, vanishing creams, etc. Serial No. 393,787; Aug. 8. Class 6.

Vitale, Samuel L., doing business as Vital Products Company, Detroit, Mich. Chocolate flavored malted milk drinks. Serial No. 420,194; Aug. 8. Class 46.

Wallau, Alex Lee, Inc., New York, N. Y. Dresses, coats, suits, etc. Serial No. 419,695; Aug. 8. Class 39.

Wayne Knitting Mills, The, Fort Wayne, Ind. Stockings. Serial Nos. 420,122–3; Aug. 8. Class 39.

Wayne Knitting Mills, The, Fort Wayne, Ind. Stockings. Serial No. 410,125; Aug. 8. Class 39.

Weil, Edgar, Philadelphia, Pa. Knives. Serial No. 419,205; Aug. 8. Class 23.

West Shore Wine & Liquor Company, Inc., New York, N. Y. Whiskey. Serial No. 418,907; Aug. 8. Class 49.

White House Canneries, Inc., Peoria, Ill. Canned fruits and vegetables, pumpkin, etc. Serial No. 419,320; Aug. 8. Class 46.

Willow Shirt and Underwear Corporation, The, New Haven, Conn. Shirts. Serial No. 417,246; Aug. 8. Class 39.

Wonder Products Company, Canton, Ohio. Toilet bowl cleaner. Serial No. 420,036; Aug. 8. Class 6.

Worumbo Manufacturing Company, Lisbon Falls, Maine. Woolen piece goods. Serial No. 418,425; Aug. 8. Class 42.

LIST OF REGISTRANTS OF TRADE-MARKS

Adelman, Arthur, doing business as Continental Undergarment Co., Brooklyn, N. Y. Ladies', misses', and children's underwear. 369,859; Aug. 8; Serial No. 382,197; published Oct. 20, 1936. Class 39.

Alaska Pacific Salmon Company, Seattle, Wash. Canned and frozen fish. 369,870; Aug. 8; Serial No. 403,747; published May 30, 1939. Class 46.

Allied Stores Corporation, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash. Lawn mowers. 369,989; Aug. 8; Serial No. 417,792; published May 30, 1939. Class 23.

Allis-Chalmers Manufacturing Company, West Allis and Milwaukee, Wis. Pumping machinery. 369,982; Aug. 8; Serial No. 417,739; published May 30, 1939. Class 23.

American Hair & Felt Company, Chicago, Ill. Synthetic porcelain cement. 369,929; Aug. 8; Serial No. 416,173; published May 30, 1939. Class 5.

American Lead Pencil Company, New York, N. Y., to American Lead Pencil Company, Hoboken, N. J. Leadpencils, crayon-chalk, crayons, etc. 126,621; renewed Sept. 30, 1939.

American Lead Pencil Company, New York, N. Y., to American Lead Pencil Company, Hoboken, N. J. Penholders. 126,622; renewed Sept. 30, 1939.

American Lecithin Company, Cleveland, Ohio. Preparation for use in baking and bakery products. 369,964; Aug. 8; Serial No. 417,198; published May 30, 1939. Class 46.

American Maize-Products Company, New York, N. Y. Cereal sugars produced from corn. 369,873; Aug. 8; Serial No. 404,393; published May 30, 1939. Class 46.

Armstrong Rubber Company, Inc., The, West Haven, Conn. Tire-casings. 370,003; Aug. 8. Class 35.

Armstrong Rubber Company, Inc., The, West Haven, Conn. Tires. 370,004; Aug. 8. Class 35.

Arpin Products, Inc., Dover, Del. Hair pins. 369,918; Aug. 8; Serial No. 415,932; published May 16, 1939. Class 40.

Atlantic Manufacturing Co., Philadelphia, Pa. Bending fixture, milling fixture, flanging chucks, etc. 369,877; Aug. 8; Serial No. 407,219; published May 30, 1939. Class 23.

Atlas Chemical Company. (See Northwestern Chemical Co., The, assignor.)

Avon Sole Company, Holbrook, Mass. Composition soles and heels. 369,960; Aug. 8; Serial No. 417,112; published May 9, 1939. Class 39.

Ayer, J. C., Co., assignor, by mesne assignments, to The Ayer Company, Inc., Lowell, Mass. Hair-tonic. 126,385; renewed Aug. 26, 1939.

Ayer, J. C., Co., assignor, by mesne assignments, to The Ayer Company, Inc., Lowell, Mass. Preparation for treating affections of the lungs and throat. 126,386; renewed Aug. 26, 1939.

Ayer, J. C., Co., assignor, by mesne assignments, to The Ayer Company, Inc., Lowell, Mass. General tonic and preparation for treating diseases arising from certain conditions of the system. 126,387; renewed Aug. 26, 1939.

Bach Shoe Company, St. Louis, Mo. Shoes, oxfords, house-slippers, etc. 369,908–9; Aug. 8; Serial Nos. 415,370–1; published May 23, 1939. Class 39.

Barr Rubber Products Company, The, Sandusky, Ohio. Latex bathing caps. 369,880; Aug. 8; Serial No. 410,064; published May 16, 1939. Class 39.

Bashkes, Hyman, doing business as Triangle Shoe Co., New York, N. Y. Shoes. 369,876; Aug. 8; Serial No. 406,902; published May 9, 1939. Class 39.

Bauman, John W., & Son, Sassamansville, Pa. Pipe wrenches. 369,946; Aug. 8; Serial No. 416,791; published May 30, 1939. Class 23.

Benjamin Electric Manufacturing Company, Chicago, to Benjamin Manufacturing Company, Des Plaines, Ill. Electrical apparatus, machines, and supplies. 125,962; renewed July 22, 1939.

Betner, Benj. C., Co., Devon, Pa. Paper bags. 369,953; Aug. 8; Serial No. 416,598; published May 23, 1939. Class 2.

Bird & Son, Inc., East Walpole, Mass. Wood frame packing cases and solid fibre shipping containers. 369,937; Aug. 8; Serial No. 416,450; published May 16, 1939. Class 2.

Bon Marche, The. (See Allied Stores Corporation.)

Boott Mills, Lowell, Mass. Cotton drills. 128,132; renewed Dec. 23, 1939.

Borden Company, The, New York, N. Y. Blend of refined sugar, fine cocoa, skim milk, etc. 369,947; Aug. 8; Serial No. 416,792; published May 30, 1939. Class 46.

Borden Company, The, New York, N. Y. Popped hominy coated with cheese flavoring. 369,967; Aug. 8; Serial No. 417,358; published May 30, 1939. Class 46.

Brooklyn Handkerchief Co., Brooklyn, N. Y. Handkerchiefs. 369,961; Aug. 8; Serial No. 417,114; published May 23, 1939. Class 39.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Billiard tables. 370,013–14; Aug. 8. Class 22.

Burbrooke Manufacturing Co., Inc., New York, N. Y. Rain coats and capes. 369,972; Aug. 8; Serial No. 417,485; published May 16, 1939. Class 39.

Buston, Jameson G., doing business as The Sun Rise Bottling Company, Tazewell, Va. Beverage and sirup and extract for making the same. 369,983; Aug. 8; Serial No. 417,741; published May 30, 1939. Class 45.

Butler Works, Chicago, Ill. Infants' wear. 369,901; Aug. 8; Serial No. 414,816; published May 2, 1939. Class 39.

Byer-Rolnick Company, Dallas, Tex. Hats. 369,917; Aug. 8; Serial No. 415,831; published May 9, 1939. Class 39.

C. C. M. Incorporated, Buffalo, N. Y. Skating shoes, stocking suspenders, and hockey knickers. 369,900; Aug. 8; Serial No. 414,651; published May 23, 1939. Class 39.

Cade, James E., New York, N. Y. Moving picture films. 369,984; Aug. 8; Serial No. 417,742; published May 30, 1939. Class 26.

Caradine Hat Company, St. Louis, Mo. Men's and boys' fur felt hats. 369,930; Aug. 8; Serial No. 416,312; published Apr. 25, 1939. Class 39.

Celestin, Ltd., San Francisco, Calif. Rum. 370,011; Aug. 8. Class 49.

Celluloid Corporation, Newark, N. J. Dresser and bag toilet sets. 369,997; Aug. 8; Serial No. 418,093; published May 23, 1939. Class 40.

Champion Belt Manufacturing Co., Inc., New York, N. Y. Ladies' belts. 369,899; Aug. 8; Serial No. 414,622; published May 16, 1939. Class 39.

Cheney Brothers, South Manchester, to Cheney Brothers, Manchester, Conn. Fabrics. 126,519; renewed Sept. 16, 1939.

Cherry Blossoms Manufacturing Company, St. Louis, Mo. Beverages, and sirups and extracts for making the same. 369,985; Aug. 8; Serial No. 417,745; published May 30, 1939. Class 45.

Citrus Distributors. (See Moyes, Harold.)

Cluff & Pickering, Ltd., New York, N. Y. Whiskey. 370,010; Aug. 8. Class 49.

Codo Manufacturing Corporation, Chicago, Ill. Carbon paper. 370,012; Aug. 8. Class 11.

Cohn, H. C., & Co., Rochester, N. Y. Neckties. 369,920; Aug. 8; Serial No. 416,045; published May 9, 1939. Class 39.

Columbia Cheese Company, Newark, N. J. Eggs. 127,361; renewed Nov. 11, 1939.

Commonwealth Shoe and Leather Company, Whitman, Mass. Men's shoes. 369,887; Aug. 8; Serial No. 413,391; published May 9, 1939. Class 39.

Consolidated Razor Blade Co., Inc., Jersey City, N. J. Razor blades. 369,940; Aug. 8; Serial No. 416,505; published May 30, 1939. Class 23.

Continental Optical Company, Inc., Indianapolis, Ind. Ophthalmic blanks and lenses tinted to reduce glare. 369,943; Aug. 8; Serial No. 416,547; published May 30, 1939. Class 26.

Continental Undergarment Co. (See Adelman, Arthur.)

Converse Rubber Company, Malden, Mass. Athletic shoes. 369,971; Aug. 8; Serial No. 417,401; published May 23, 1939. Class 39.

Coors Porcelain Company, Golden, Colo. Laboratory porcelain ware. 370,009; Aug. 8. Class 26.

Copper Clad Steel Co., Rankin Borough, now by change of name to Copperweld Steel Company, Glassport, Pa. Welded bronze and steel products. 125,410; renewed May 20, 1939.

Copper Clad Steel Co., Rankin Borough, now by change of name, to Copperweld Steel Company, Glassport, Pa. Welded brass and steel products. 125,411; renewed May 20, 1939.

Copperweld Steel Company. (See Copper Clad Steel Co.)

Creco Company, Inc. (See United Sanitary Products Co., Inc.)

Creole Food Co., Gulfport, Miss. Canned shrimp à la creole; shrimpburger, creole gumbo, etc. 369,893; Aug. 8; Serial No. 414,339; published May 30, 1939. Class 46.

Cuetara, Salvador, Boston, Mass. Shoes and slippers. 370,008; Aug. 8. Class 39.

Cutler, Roger W., Boston, Mass. Fabric driving tapes. 369,986; Aug. 8; Serial No. 417,749; published May 30, 1939. Class 23.

Delin, August L., Newark, N. J. Golf bag support. 370,002; Aug. 8; Serial No. 418,568; published May 30, 1939. Class 22.

Deming Company, The, Salem, Ohio. Machines and tools and parts thereof. 126,595; renewed Sept. 23, 1939.

Divine, Fred D., Company, Utica, N. Y. Fishing-rods. 127,920; renewed Dec. 16, 1939.

Donahue, A. J., Corporation, The, Milford, Conn. Hair curlers, wavers, clips, etc. 369,921; Aug. 8; Serial No. 416,049; published May 9, 1939. Class 40.

Dress-Well Neckwear Co., Inc., New York, N. Y. Neckties and mufflers. 369,936; Aug. 8; Serial No. 416,407; published May 9, 1939. Class 39.

Driscoll, Wilmer C., Roanoke, Va. Game. 369,987; Aug. 8; Serial No. 417,750; published May 30, 1939. Class 22.

East Whittier Citrus Ass'n, East Whittier, to East Whittier Citrus Association, Whittier, Calif. Fresh cirtrus fruits. 126,671–2; renewed Sept. 30, 1939.

East Whittier Citrus Ass'n, East Whittier, to East Whittier Citrus Association, Whittier, Calif. Fresh citrus fruits. 127,604; renewed Nov. 18, 1939.

East Whittier Citrus Ass'n, East Whittier, to East Whittier Citrus Association, Whittier, Calif. Fresh citrus fruits. 128,229; renewed Dec. 30, 1939.

Educator Shoe Corporation of America, The, New York, N. Y. Shoes. 369,867; Aug. 8; Serial No. 402,217; published May 16, 1939. Class 39.

Eichmann & Hecht, New York, N. Y. Fabrics. 369,888; Aug. 8; Serial No. 413,823; published May 30, 1939. Class 42.

Elder Manufacturing Company, St. Louis, Mo. Boys' and children's clothing. 128,052; renewed Dec. 23, 1939.

Esbjerg Hermetikfabrik A/S, Esbjerg, Denmark. Conserves. 369,885; Aug. 8; Serial No. 412,253; published May 30, 1939. Class 46.

Esmond, Gundlach and Company. (See Gundlach, George P.)

Etablissements Rigaud, Inc. (See Rigaud, Henri, assignor.)

Famous Foods, Inc., Detroit, Mich. Pretzels, potato chips, and popt corn. 369,882; Aug. 8; Serial No. 412,128; published May 30, 1939. Class 46.

Fay-Miss Brassiere Co. Inc., New York, N. Y. Brassières, bandeaux, corselets, etc. 369,949; Aug. 8; Serial No. 416,846; published May 2, 1939. Class 39.

Federal Snap Fastener Corporation, New York, assignor, by mesne assignments, to Waldes-Koh-I-Noor, Inc., Long Island City, N. Y. Snap-fasteners and placket-fasteners. 127,391; renewed Nov. 11, 1939.

Federal Snap Fastener Corporation, New York, assignor, by mesne assignments, to Waldes-Koh-I-Noor, Inc., Long Island City, N. Y. Snap-fasteners and placket-fasteners. 128,062; renewed Dec. 23, 1939.

Forstmann & Huffmann Co., assignor, by mesne assignments, to Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. 126,158; renewed July 29, 1939.

Frank & Meyer Neckwear Company, St. Louis, Mo. Neckties. 369,915; Aug. 8; Serial No. 415,770; published Apr. 25, 1939. Class 39.

Franklin Research Company, Philadelphia, Pa. Wax. 370,019; Aug. 8. Class 16.

Fremont Canning Company, doing business as Gerber Products Company, Fremont, Mich. Canned vegetables, fruits, soups, etc. 369,865; Aug. 8; Serial No. 401,930; published May 30, 1939. Class 46.

Galloway Company, Inc., The, Waterloo, Iowa. Centrifugal cream separators. 369,891; Aug. 8; Serial No 414,065; published May 30, 1939. Class 23.

Garfinkel & Ritter, New York, N. Y. Women's lingerie. 370,018; Aug. 8. Class 39.

General Mills, Inc. (See Washburn-Crosby Co., assignor.)

General Shoe Corporation, Nashville, Tenn. Boots, shoes, and slippers. 369,966; Aug. 8; Serial No. 417,335; published May 16, 1939. Class 39.

General Tire and Rubber Company, The, Akron, Ohio. Rubber-tire casings. 128,069; renewed Dec. 23, 1939.

Gerber Products Company. (See Fremont Canning Company.)

Gibson Electric Refrigerator Corporation, Greenville, Mich. Electric ranges. 369,978; Aug. 8; Serial No. 417,612; published May 30, 1939. Class 21.

Gilbert, Martin, Reedley, Fla. Fresh grapes. 369,883; Aug. 8; Serial No. 412,133; published May 30, 1939. Class 46.

Gimbel Brothers, Inc., New York, N. Y. Women's shoes. 369,914; Aug. 8; Serial No. 415,713; published May 2, 1939. Class 39.

Glensder Textile Co., New York, N. Y. Veilings, nettings, chiffons, etc. 128,072; renewed Dec. 23, 1939.

Goldberg, Squire, Lesser & Cohen, Inc., New York, N. Y. Neckties. 369,922; Aug. 8; Serial No. 416,063; published Apr. 25, 1939. Class 39.

Goodrich, B. F., Company, The, New York, N. Y. Machinery mountings or supports. 369,913; Aug. 8; Serial No. 415,508; published May 30, 1939. Class 23.

Goodyear Footwear Corporation, Providence, R. I. Footwear. 369,941; Aug. 8; Serial No. 416,509; published Apr. 25, 1939. Class 39.

Greenway's Inc., Syracuse, N. Y. Beverages fermented from malt, hops, sugar, etc. 369,998; Aug. 8; Serial No. 418,147; published May 30, 1939. Class 48.

Griswold, H. B., doing business as Griswold Ranch Company, La Habra, Calif. Avocados. 369,973; Aug. 8; Serial No. 417,537; published May 30, 1939. Class 46.

Gundlach, George P., doing business as Esmond, Gundlach and Company, Norwood, Ohio. Bottled buttermilk. 370,015; Aug. 8. Class 46.

Hammel, Riglander & Co., Inc., New York, N. Y. Engraving blocks and parts thereof. 369,933; Aug. 8; Serial No. 416,375; published May 30, 1939. Class 23.

Hart, Lucas P., La Mesa, Calif. Furniture and floor polish. 369,916; Aug. 8; Serial No. 415,776; published May 30, 1939. Class 16.

Hermes, S. A., Paris, France. Belts, golf gloves and sport gloves, etc. 369,944; Aug. 8; Serial No. 416,563; published May 23, 1939. Class 39.

Hewitt Rubber Corporation, Buffalo, N. Y. Rubber covered rolls and pulleys and motor mountings. 369,980; Aug. 8; Serial No. 417,690; published May 30, 1939. Class 23.

Hess & Rubin, Inc., New York, N. Y. Ladies' and misses' hats. 369,863; Aug. 8; Serial No. 400,970; published Nov. 1, 1938. Class 39.

Hirsch-Weis Manufacturing Company, Portland, Oreg. Sport and ski clothing and wearing apparel. 369,881; Aug. 8; Serial No. 411,954; published May 2, 1939. Class 39.

Hlicke'l's, J., Söhne, Novy Jicin, Czechoslovakia. Hats, caps, bonnets, etc. 369,874; Aug. 8; Serial No. 405,257; published Apr. 25, 1939. Class 39.

Hunter, Lee, Jr., St. Louis, Mo. Motor generator sets for battery charging units. 370,006; Aug. 8. Class 21.

Hyman Bros., Philadelphia, Pa. Aprons, bathing suits, bathrobes, etc. 369,871; Aug. 8; Serial No. 403,872; published Apr. 25, 1939. Class 39.

Independent Wholesale Dry Goods Assn. Inc., New York, N. Y. Hosiery, sweaters, pants, etc. 369,879; Aug. 8; Serial No. 409,237; published Oct. 11, 1938. Class 39.

International Harvester Company, Chicago, Ill. Ferrous metal castings and forgings. 369,959; Aug. 8; Serial No. 417,090; published May 30, 1939. Class 14.

Jarvis, H. E., & Co., Limited, London, England. Lamps for medical and surgical purposes. 370,001; Aug. 8; Serial No. 418,411; published May 30, 1939. Class 44.

Jubilee Manufacturing Company, Omaha, Nebr. Electrically actuated horns and their adjuncts. 370,016; Aug. 8. Class 21.

Kane, Robert, Pittsburgh, Pa. Pharmaceutical preparation. 128,411; renewed Jan. 6, 1940.

Kelly, Kitty, Shoe Corporation, New York, N. Y. Shoes, spats, heels, etc. 369,898; Aug. 8; Serial No. 414,601; published May 9, 1939. Class 39.

Kenya Corporation, New York, N. Y. Woven wool and rayon fabrics. 370,020; Aug. 8. Class 42.

Keyes Fibre Company, Waterville, Maine. Molded pulp plates. 369,878; Aug. 8; Serial No. 408,885; published May 30, 1939. Class 2.

Keystone Macaroni Company, assignor to Keystone Macaroni Manufacturing Company, Lebanon, Pa. Macaroni. 128,415; renewed Jan. 6, 1940.

Kidd, Mrs. E. G., Inc., assignor to Pin Money Brands, Inc., Richmond, Va. Foods. 128,245; renewed Dec. 30, 1939.

Larus & Brother Company. (See Reed Tobacco Company, assignor.)

Larus & Brother Company, Richmond, Va. Smoking-tobacco. 128,094–5; renewed Dec. 23, 1939.

Lehrman, Jacob, doing business as Sun Pride Co., Philadelphia and Harrisburg, Pa. Tomato paste. 369,954; Aug. 8; Serial No. 416,768; published May 30, 1939. Class 46.

Lilly, Eli, and Company, The, Indianapolis, Ind., now by change of name to Eli Lilly and Company. Acetylsalicylic-acid preparations. 126,676; renewed Sept. 30, 1939.

Lima Cord Sole and Heel Company, The, Lima, Ohio. Soles and heels. 369,938; Aug. 8; Serial No. 416,468; published May 23, 1939. Class 39.

Loveman, Joseph, & Loeb, Birmingham, Ala. Pajamas, men's hats, coats, etc. 369,895; Aug. 8; Serial No. 414,455; published May 16, 1939. Class 39.

Loveman, Joseph, & Loeb, Birmingham, Ala. Sheets and pillow cases. 369,896; Aug. 8; Serial No. 414,456; published May 30, 1939. Class 42.

Lowe, Joe, Corporation, New York, N. Y. Marbles, combination checkers and Chinese checkers game, etc. 369,974; Aug. 8; Serial No. 417,544; published May 30, 1939. Class 22.

Macy, R. H., & Co., Inc., New York, N. Y. Children's sweaters, dresses, outer shorts, etc. 369,904; Aug. 8; Serial No. 415,298; published Apr. 25, 1939. Class 39.

Maiden Form Brassiere Company, Inc., New York, N. Y. Brssières, bandeaux, corsets, etc. 369,886; Aug. 8; Serial No. 413,348; published Apr. 25, 1939. Class 39.

Marshall Field & Company, Chicago, Ill. Shoes. 369,957; Aug. 8; Serial No. 417,004; published May 9, 1939. Class 39.

Master Electric Company, The, Dayton, Ohio. Electrically operated hoists and parts thereof. 369,926; Aug. 8; Serial No. 416,151; published May 30, 1939. Class 21.

Master, Wardens, Searchers, Assistants and Commonalty of the Company of Cutlers in Hallamshire in the County of York, The, Sheffield, England. Grinding machinery and parts thereof. 369,861; Aug. 8; Serial No. 391,896; published May 31, 1938. Class 23.

Mathias, William E., Sterling, Colo. Commercial tree food. 370,017; Aug. 8. Class 10.

May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Shoes. 369,942; Aug. 8; Serial No. 416,514; published May 9, 1939. Class 39.

Menihan, J. G., Corp., Rochester, N. Y. Shoes. 369,958; Aug. 8; Serial No. 417,027; published May 23, 1939. Class 39.

Merlier, M., Inc., New York, N. Y. Gloves. 369,931–2; Aug. 8; Serial Nos. 416,330–1; published Apr. 25, 1939. Class 39.

Meyenberg Milk Products Co., Salinas, Calif. Preparation used in making ice cream. 369,897; Aug. 8; Serial No. 414,460; published May 30, 1939. Class 46.

Milar, Karl A., doing business as Milar & Company, Chicago, Ill. Metal primer. 369,995; Aug. 8; Serial No. 418,049; published May 30, 1939. Class 16.

Miller, I., & Sons, Inc., Long Island City, N. Y. Ladies' shoes. 369,869; Aug. 8; Serial No. 403,516; published May 2, 1939. Class 39.

Millinery Merchandising Executives Association, Inc., New York, N. Y. Ladies' hats. 369,919; Aug. 8; Serial No. 415,956; published Apr. 25, 1939. Class 39.

Morlya, Saburo, New York, N. Y. Porcelain insulating material for electrical apparatus of all types. 369,868; Aug. 8; Serial No. 402,738; published May 30, 1939. Class 21.

Moyes, Harold, doing business as Citrus Distributors, Los Angeles, Calif. Fresh citrus fruits and vegetables. 369,939; Aug. 8; Serial No. 416,472; published May 30, 1939. Class 46.

National Biscuit Company, New York, N. Y. Bakery products. 369,875; Aug. 8; Serial No. 406,820; published May 16, 1939. Class 46.

Norcross, C. S., and Sons, Bushnell, Ill. Hand garden implements. 128,473; renewed Jan. 6, 1940.

Northwestern Chemical Co., The, assignor to Atlas Chemical Company, Marietta, Ohio. Carbon-removing, fire-extinguishing, antileak and antifreezing compounds, etc. 127,858; renewed Dec. 9, 1939.

Northwestern Chemical Co., The, assignor to Atlas Chemical Company, Marietta, Ohio. Paints, varnish, Prussian blue in oil, etc. 127,975; renewed Dec. 16, 1939.

Northwestern Chemical Co., The, assignor to Atlas Chemical Company, Marietta, Ohio. Abrasive, detergent, and polishing materials. 128,250; renewed Dec. 30, 1939.

Old Dominion Box Company, Lynchburg, Va. Paper boxes. 369,950; Aug. 8; Serial No. 416,866; published May 30, 1939. Class 2.

Olenik, Irwin, New York, N. Y. Hats, berets, and caps; etc. 369,968; Aug. 8; Serial No. 417,386; published May 23, 1939. Class 39.

Palizzio, Inc., New York, N. Y. Shoes. 369,952; Aug. 8; Serial No. 416,913; published May 23, 1939. Class 39.

Panther-Panco Rubber Co., Inc., Chelsea, Mass. Composition soles. 369,945; Aug. 8; Serial No. 416,740; published May 2, 1939. Class 39.

Penn Leather Company, Philadelphia, Pa. Leather. 126,605; renewed Sept. 23, 1939.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Suspenders, belts, and hose supporters. 369,934; Aug. 8; Serial No. 416,384; published May 9, 1939. Class 39.

Pepsi-Cola Bottling Co. (See Weiss, Oscar J.)

Piggly Wiggly Corporation, Cincinnati, Ohio. Diary and poultry feed. 369,860; Aug. 8; Serial No. 382,615; published Nov. 15, 1938. Class 46.

Pin Money Brands, Inc. (See Kidd, Mrs. E. G., Inc.)

Pollack, Max, & Company, Inc., New York, N. Y. Binding tape such as is used by dress manufacturers. 370,005; Aug. 8. Class 40.

Prime Manufacturing Co., The, Milwaukee, Wis. Electric fence controllers. 369,981; Aug. 8; Serial No. 417,711; published May 30, 1939. Class 21.

Quik-Kup Coffee, Inc., New York, N. Y. Fluid coffee. 369,858; Aug. 8; Serial No. 380,883; published May 30, 1939. Class 46.

RCA-Manufacturing Company, Inc., Camden, N. J. Electric chime units and parts thereof. 369,894; Aug. 8; Serial No. 414,365; published May 30, 1939. Class 36.

Rawleigh, W. T., Company, The, Freeport, Ill. Foods. 128,256; renewed Dec. 30, 1939.

Rawleigh, W. T., Company, The, Freeport, Ill. Sewing-machine oil. 128,495; renewed Jan. 6, 1940.

Rawleigh, W. T., Company, The, Freeport, Ill. Abrasive, detergent, and polishing materials. 128,496; renewed Jan. 6, 1940.

Reed Tobacco Company, assignor to Larus & Brother Company, doing business as Reed Tobacco Company, Richmond, Va. Cigarettes. 128,157; renewed Dec. 23, 1939.

Rigaud, Henri, Paris, France, and New York, N. Y., assignor to Etablissements Rigaud, Inc., New York, N. Y. Toilet preparations. 120,113; renewed Jan. 8, 1939.

Rilling-Arnao Company, Minneapolis, Minn. Permanent wave apparatus, curler jackets, exothermic heating elements, etc. 370,007; Aug. 8. Class 44.

Rochester Button Company, Rochester, N. Y. Buttons. 369,992; Aug. 8; Serial No. 417,891; published May 23, 1939. Class 40.

Rom, M., & Sons Company, Inc., Pittsburgh, Pa. Chili sauce, catsup, finger peppers, etc. 369,862; Aug. 8. Serial No. 399,374; published May 30, 1939. Class 46.

Rosenblatt and Kahn, New York, N. Y. Children's coats, suits, dresses, etc. 369,884; Aug. 8; Serial No. 412,199; published Jan. 17, 1939. Class 39.

Sainberg, Louis, assignor to Sainberg & Company, Inc., New York, N. Y. Paper and stationery. 128,510; renewed Jan. 6, 1940.

Salem Chemical & Supply Co., Salem, Mass. Turpentine, wax polish and oil polish. 369,996; Aug. 8; Serial No. 418,064; published May 30, 1939. Class 16.

Salfair, Inc., New York, N. Y. Ladies' hats. 369,935; Aug. 8; Serial No. 416,388; published Apr. 25, 1939. Class 39.

Schoen, Elizabeth, New York, N. Y. Hats. 369,955; Aug. 8; Serial No. 416,923; published May 2, 1939. Class 39.

Scholl Mfg. Co., Inc., The, New York, N. Y. Adhesive unmedicated felt corn pads. 369,969; Aug. 8; Serial No. 417,391; published May 30, 1939. Class 44.

Schuckl & Co., Inc., doing business as Sunnyvale Packing Co., San Francisco, Calif. Canned soups. 369,965; Aug. 9; Serial No. 417,308; published May 30, 1939. Class 46.

Schwab, Armand, & Co., Inc., New York, N. Y. Hat braid. 369,902; Aug. 8; Serial No. 414,979; published Apr. 25, 1939. Class 40.

Schwab, Armand, & Co., Inc., New York, N. Y. Hat braid. 369,903; Aug. 8; Serial No. 414,980; published Apr. 18, 1939. Class 40.

Schwab, Armand, & Co., Inc., New York, N. Y. Hat bodies and hat hoods. 369,963; Aug. 8; Serial No. 417,193; published May 23, 1939. Class 39.

Schwartz, Charles, & Co., Chicago, Ill. Towels, untreated polishing cloths, and wiping and wash cloths. 369,956; Aug. 8; Serial No. 416,969; published May 30, 1939. Class 42.

Seadboard Lemon Association, Oxnard, Calif. Fresh citrus fruit. 369,977; Aug. 8; Serial No. 417,590; published May 30, 1939. Class 46.

Sellinger Glove Company, Sheboygan, Wis. Gloves processed to look like fur. 369,872; Aug. 8; Serial No. 404,138; published May 16, 1939. Class 39.

Seminole Flavor Company, Chattanooga, Tenn. Beverages, and syrups for compounding the same. 369,889; Aug. 8; Serial No. 413,882; published May 30, 1939. Class 45.

Sexton, John, & Co., Chicago, Ill. Canned fruits and vegetables. 370,021; Aug. 8. Class 46.

Smith, Kate, New York, N. Y. Slips, panties, nightgowns, etc. 369,923; Aug. 8; Serial No. 416,075; published May 9, 1939. Class 39.

Speare Glove Company, Gloversville, N. Y. Gloves. 369,911; Aug. 8; Serial No. 415,419; published Apr. 25, 1939. Class 39.

Stern, Merritt Co., Inc., New York, N. Y. Neckties. 369,905; Aug. 8; Serial No. 415,307; published May 9, 1939. Class 39.

Stern, Merritt Co., Inc., New York, N. Y. Neckties. 369,906; Aug. 8; Serial No. 415,310; published May 9,1939. Class 39.

Sturm, Sigmund, New York, N. Y. Ladies' hats and dresses. 369,927; Aug. 8; Serial No. 416,164; published May 9, 1939. Class 39.

Sunnyvale Packing Co. (See Schuckl & Co., Inc.)

Sun Pride Co. (See Lehrman, Jacob.)

Sun Rise Bottling Company, The. (See Buston, Jameson G.)

Sunset Feed & Grain Co., Inc., Buffalo, N. Y. Milk albumen, buttermilk, milk sugar feed. 369,864; Aug. 8; Serial No. 401,228; published Sept. 6, 1938. Class 46.

Superb Glove Company, The, Johnstown, N. Y. Gloves. 369,924; Aug. 8; Serial No. 416,122; published May 9, 1939. Class 39.

Superheater Company, The, Wilmington, Del., and New York, N. Y. Steam and water separators. 369,990; Aug. 8; Serial No. 417,852; published May 30, 1939. Class 23.

Superior Felt & Bedding Company, Chicago, Ill. Mattresses. 369,928; Aug. 8; Serial No. 416,165; published May 30, 1939. Class 32.

Superior Shoe Co., Inc., The, Chicago, Ill. Shoes. 369,976; Aug. 8; Serial No. 417,558; published May 23, 1939. Class 39.

Tannhäuser Brewing Company, Bethlehem, Pa. Beer. 369,999; Aug. 8; Serial No. 418,216; published May 30, 1939. Class 48.

Telemotor Corporation, New York, N. Y. Intercommunicating telephone equipment. 369,988; Aug. 8; Serial No. 417,787; published May 30, 1939. Class 21.

Triangle Shoe Co. (See Bashkes, Hyman.)

Troy, Seymour, Inc., New York, N. Y. Ladies' shoes. 369,975; Aug. 8; Serial No. 417,556; published May 16, 1939. Class 39.

Tru Test Marketing & Merchandising Corp., Chicago, Ill. Paint, paint enamel, and varnish. 369,925; Aug. 8; Serial No. 416,124; published May 30, 1939. Class 16.

Ulmann, Bernard, Co. Inc., New York, N. Y. Art needlework package outfits. 369,910; Aug. 8; Serial No. 415,426; published May 9, 1939. Class 40.

United Sanitary Products Co., Inc., New York, now by change of name to Creco Company, Inc., Long Island City, N. Y. Disinfectants and insecticides. 125,768; renewed June 10, 1939.

Universal Camera Corporation, New York, N. Y. Camera lenses. 369,979; Aug. 8; Serial No. 417,631; published May 30, 1939. Class 26.

Venus Corporation, New York, N. Y. Hoods, face make-up, and clothes. 369,962; Aug. 8; Serial No. 417,190; published May 23, 1939. Class 40.

Vi-Jon Laboratories, Inc., St. Louis, Mo. Hair dressing preparations. 369,948; Aug. 8; Serial No. 416,821; published May 23, 1939. Class 6.

Vogel, Adolf, San Antonio, Tex. Leather belts. 369,892; Aug. 8; Serial No. 414,245; published May 16, 1939. Class 39.

Von Hensler, B. A., New York, N. Y. Foundation garments. 369,907; Aug. 8; Serial No. 415,365; published May 23, 1939. Class 39.

Waldes-Koh-I-Noor, Inc. (See Federal Snap Fastener Corporation, assignor.)

Walton, A. G., & Co., Inc., Chelsea, Mass. Rubber soles. 369,912; Aug. 8; Serial No. 415,429; published May 23, 1939. Class 39.

Washburn-Crosby Co., assignor to General Mills, Inc., Minneapolis, Minn. Bread. 127,797; renewed Dec. 2, 1939.

Washington Fruit & Produce Co., Yakima, Wash. Fresh apples. 128,567; renewed Jan. 6, 1940.

Washington Tent & Awning Co., Inc., Washington, D. C. Venetian blinds. 369,994; Aug. 8; Serial No. 417,989; published May 30, 1939. Class 32.

Weill, Raphael, & Company, doing business as The White House, San Francisco, Calif. Clothing for men and boys. 369,866; Aug. 8; Serial No. 402,039; published May 2, 1939. Class 39.

Weiss, Oscar J., doing business as Pepsi-Cola Bottling Co., Quincy, Ill. Beverages, and sirups and extracts for making the same. 370,000; Aug. 8; Serial No. 418,221; published May 30, 1939. Class 45.

White House, The. (See Weill, Raphael, & Company.)

Williams Inc., Peoria, Ill. Radio receiving sets and parts thereof. 369,993; Aug. 8; Serial No. 417,945; published May 30, 1939. Class 21.

Willson Products, Inc., Reading, Pa. Ophthalmic mountings and lenses and parts thereof. 369,991; Aug. 8; Serial No. 417,856; published May 30, 1939. Class 26.

Winorr Canning Company, The, Circleville, Ohio. Canned vegetables. 369,951; Aug. 8; Serial No. 416,885; published May 30, 1939. Class 46.

Wohl Shoe Company, St. Louis, Mo. Women's, Girls', and children's shoes. 369,890; Aug. 8; Serial No. 413,887; published Feb. 28, 1939. Class 39.

Wolfe & Land, Inc., New York, N. Y. Corsets. 369,970; Aug. 8; Serial No. 417,392; published May 23, 1939. Class 39.

LIST OF REGISTRANTS OF LABELS

Cowan, Harry B., Los Angeles, Calif. Kler-Fog Glass Cleaner. For a Glass Cleaner. 53,340; Aug. 8.
Dainty Foods Manufacturers, Inc., Chicago, Ill. Dainty Noodle Soup Mix. For Noodle Soup Mix. 53,341; Aug. 8.
Eastern Brewing Corp., Waterbury, Conn. Mayfair. For Beer. 53,342; Aug. 8.
Eastern Brewing Corp., Waterbury, Conn. Mayfair. For Ale. 53,343; Aug. 8.
Eastern Brewing Corp., Waterbury, Conn. Triangle. For Ale. 53,344; Aug. 8.
Eastern Brewing Corp., Waterbury, Conn. Triangle. For Beer. 53,345; Aug. 8.
Eddington Distilling Co., Schaefferstown and Heidelberg Township, Pa. Yankee Farmer. For Blended Whiskey. 53,346; Aug. 8.
Ferguson, Tracy A., Hannibal, Mo. Noxo. For Hand Soap. 53,347; Aug. 8.
General Mills, Inc., Minneapolis, Minn. Bisquick. For Biscuit Flour. 53,348; Aug. 8.
Improved Hair Net Co., New York, N. Y. Slip-On. For Hair Nets. 53,349; Aug. 8.
Improved Hair Net Co., New York, N. Y. Reinforced. For Hair Nets. 53,350; Aug. 8.
Jackson, John T., Louisville, Ohio. Reel Snow. For Artificial Snow. 53,351; Aug. 8.
Mackwin Company, The, Winona, Minn. Mackwin Garden Dust. For a Garden Dust. 53,352; Aug. 8.
Markwell Mfg. Co., Inc., New York, N. Y. Markwell 5000 RX Staples. For Staples. 53,353; Aug. 8.
Morning Milk Company, Salt Lake City, Utah. Special Morning Milk. For Evaporated Milk. 53,354; Aug. 8.
Moss, N., doing business as Pioneer Bakery, St. Cloud, Minn. Pioneer Bread. For Bread. 53,355; Aug. 8.
New York Toy & Game Manufacturing Co. (See Rubin, Louis.)
O-Cedar Corp'n, Chicago, Ill. O-Cedar Self-Polishing Wax, No Rubbing, Rich Carnauba Base. For Self-Polishing Wax for all Floors. 53,356; Aug. 8.
Penick & Ford, Ltd., Incorporated, New York, N. Y. Woman's Club. For Molasses. 53,357; Aug. 8.
Pioneer Bakery. (See Moss, N.)
Roddenbery Brothers, Cairo, Ga. Georgia Maid. For Syrup. 53,358; Aug. 8.
Rubin, Louis, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Whirl-I-Gig! For a Game. 53,359; Aug. 8.
Sheldon, F. M., doing business as Super-Digester Products Co., Pasadena, Calif. Try-It. For Vitamin Mineral Supplement for Dogs and Cats. 53,360; Aug. 8.
Simpson Coffee, Inc., Greenville, S. C. King Charles. For Coffee. 53,361; Aug. 8.
Southern Handkerchief Mfg. Co., Greenville, S. C. Navy Best by Test. For Handkerchiefs. 53,362; Aug. 8.
Super-Digester Products Co. (See Sheldon, F. M.)
Tobacco By-Products & Chemical Corporation (Incorporated), Louisville, Ky. "Black Leaf" Worm Pellets. For a Scientifically Prepared Dry Compound of Nicotine that is Both Tasteless and Odorless for Control of Poultry Roundworm (Ascaridia Lineata). 53,363; Aug. 8.
Tobacco By-Products & Chemical Corporation (Incorporated), Louisville, Ky. "Nico-Fume" Tobacco Powder Pressure-Fumigator for Fumigating Greenhouses. For Tobacco Powder Pressure-Fumigators for Fumigating Greenhouses. 53,364; Aug. 8.
Tobacco By-Products & Chemical Corporation (Incorporated), Louisville, Ky. "Black Leaf 40" Nicotine Sulphate. For Nicotine Sulphate. 53,365; Aug. 8.
Tyee Oyster Company, Gig Harbor, Wash. Tyee Dehydrated Oyster Meat. For Dehydrated Oyster Meat. 53,366; Aug. 8.
United Pharmaceuticals, Incorporated, Louisville, Ky. Qua-Lax. For a Medicine for Internal Usage. 53,367; Aug. 8.
Wahl, H. T., Brunswick, Mo. Wahl's Triplemint Chewing Gum. For Chewing Gum. 53,368; Aug. 8.
Walker's Austex Chili Company, Austin, Tex. Walker's Austex Mexican Style Beans with Chili Gravy. For Mexican Style Beans with Chili Gravy. 53,369; Aug. 8.
Young, W. F., Inc., Springfield, Mass. Absorbine. For Veterinary Liniment. 53,370–1; Aug. 8.

LIST OF REGISTRANTS OF PRINTS

General Mills, Inc., Minneapolis, Minn. Grand for My Youngsters—Because It's Whole Wheat! For Cereal Food. 17,527; Aug. 8.
Lawrence, A. C., Leather Company, Peabody, Mass. It's Always Leather Weather. For Leather. 17,528; Aug. 8.
Mead Johnson & Company, Evansville, Ind. How Much Sun Does the Baby Really Get? For Oleum Percomorphum. 17,529; Aug. 8.
Parke, Davis & Company, Detroit, Mich. Parke-Davis Milk of Magnesia. For Milk of Magnesia. 17,530; Aug. 8.
Parke, Davis & Company, Detroit, Mich. Parke-Davis Neko. For Germicidal Soap. 17,531; Aug. 8.
Personeni, Joseph, New York, N. Y. Take A Tip. For Wine. 17,532; Aug. 8.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Leather. Penn Leather Co. 126,605; renewed Sept. 23, 1939.

CLASS 2

Bags, Paper. Benj. C. Betner Co. 369,953; Aug. 8; Serial No. 416,598; published May 23, 1939.
Boxes, Paper. Old Dominion Box Company. 369,950; Aug. 8; Serial No. 416,866; published May 30, 1939.
Cases and solid fibre shipping containers, Wood frame packing. Bird & Son, Inc. 369,937; Aug. 8; Serial No. 416,450; published May 16, 1939.
Plates, Molded pulp. Keyes Fibre Company. 369,878; Aug. 8; Serial No. 408,885; published May 30, 1939.

CLASS 4

Abrasive, detergent, and polishing materials. Northwestern Chemical Co. 128,250; renewed Dec. 30, 1939.
Abrasive, detergent, and polishing materials. W. T. Rawleigh Company. 128,496; renewed Jan. 6, 1940.

CLASS 5

Cement, Synthetic porcelain. American Hair & Felt Company. 369,929; Aug. 8; Serial No. 416,173; published May 30, 1939.

CLASS 6

Acetylsalicylic-acid preparations. Eli Lilly and Company. 126,676; renewed Sept. 30, 1939.
Carbon-removing, fire-extinguishing, antileak and antifreezing compounds and soldering-paste. Northwestern Chemical Co. 127,858; renewed Dec. 9, 1939.
Disinfectants and insecticides. United Sanitary Products Co. 125,768; renewed June 10, 1939.

Hair dressing preparations. Vi-Jon Laboratories, Inc. 369,948; Aug. 8; Serial No. 416,821; published May 23, 1939.
Hair-tonic. J. C. Ayer Co. 126,385; renewed Aug. 26, 1939.
Pharmaceutical preparation. R. Kane. 128,411; renewed Jan. 6, 1940.
Preparation for treating affections of the lungs and throat. J. C. Ayer Co. 126,386; renewed Aug. 26, 1939.
Toilet preparations. H. Rigaud. 120,113; renewed Jan. 8, 1938.
Tonic and preparation, General. J. C. Ayer Co. 126,387; Aug. 26, 1939.

CLASS 10

Tree food, Commercial. W. E. Mathias. 370,017; Aug. 8.

CLASS 11

Carbon paper. Codo Manufacturing Corporation. 370,012; Aug. 8.

CLASS 14

Brass and steel products, Welded. Copper Clad Steel Co. 125,411; renewed May 20, 1939.
Bronze and steel products, Welded. Copper Clad Steel Co. 125,410; renewed May 20, 1939.
Castings and forgings, Ferrous metal. International Harvester Company. 369,959; Aug. 8. Serial No. 417,090; published May 30, 1939.

CLASS 15

Oil, Sewing-machine. W. T. Rawleigh Company. 128,495; renewed Jan. 6, 1940.

CLASS 16

Paint, paint enamel, and varnish. Tru Test Marketing & Merchandising Corp. 369,925; Aug. 8. Serial No. 416,124; published May 30, 1939.
Paints, varnish, Prussian blue in oil, etc. Northwestern Chemical Co. 127,975; renewed Dec. 16, 1939.
Polish, Furniture and floor. L. P. Hart. 369,916; Aug. 8. Serial No. 415,776; published May 30, 1939.
Primer, Metal. K. A. Milar. 369,995; Aug. 8. Serial No. 418,049; published May 30, 1939.
Turpentine, wax polish and oil polish. Salem Chemical & Supply Co. 369,996; Aug. 8. Serial No. 418,064; published May 30, 1939.
Wax. Franklin Research Company. 370,019; Aug. 8.

CLASS 17

Cigarettes. Reed Tobacco Company. 128,157; renewed Dec. 23, 1939.
Tobacco, Smoking. Larus & Brother Company. 128,094–5; renewed Dec. 23, 1939.

CLASS 21

Electrical apparatus, machines, and supplies. Benjamin Electric Manufacturing Company. 125,962; renewed July 22, 1939.
Fence controllers, Electric. Prime Manufacturing Co. 369,981; Aug. 8; Serial No. 417,711; published May 30, 1939.
Hoist and parts thereof, Electrically operated. Master Electric Company. 369,926; Aug. 8; Serial No. 416,151; published May 30, 1939.
Horns and their adjuncts, Electrically actuated. Jubilee Manufacturing Company. 370,016; Aug. 8.
Insulating material for electrical apparatus of all types, Porcelain. S. Moriva. 369,868; Aug. 8; Serial No. 402,738; published May 30, 1939.
Motor generator sets for battery charging units. Lee Hunter, Jr. 370,006; Aug. 8.
Radio receiving sets and parts thereof. Williams Inc. 369,993; Aug. 8; Serial No. 417,945; published May 30, 1939.
Ranges, Electric. Gibson Electric Refrigerator Corporation. 369,978; Aug. 8; Serial No. 417,612; published May 30, 1939.
Telephone equipment, Intercommunicating. Telemotor Corporation. 369,988; Aug. 8; Serial No. 417,787; published May 30, 1939.

CLASS 22

Billiard tables. Brunswick-Balke-Collender Company. 370,013–14; Aug. 8.
Fishing-rods. Fred D. Divine Company. 127,920; renewed Dec. 16, 1939.
Game. W. C. Driscoll. 369,987; Aug. 8; Serial No. 417,750; published May 30, 1939.
Golf bag support. A. L. Delin. 370,002; Aug. 8, 1939; Serial No. 418,568; published May 30, 1939.
Marbles, combination checkers and chinese checkers game, etc. Joe Lowe Corporation. 369,974; Aug. 8; Serial No. 417,544; published May 30, 1939.

CLASS 23

Bending fixture, milling fixture, flanging chucks, etc. Atlantic Manufacturing Co. 369,877; Aug. 8; Serial No. 407,219; published May 30, 1939.
Engraving blocks and parts thereof. Hammel, Riglander & Co. 369,933; Aug. 8; Serial No. 416,375; published May 30, 1939.
Fabric driving tapes. W. C. Roger. 369,986; Aug. 8; Serial No. 417,749; published May 30, 1939.
Garden implements, Hand. C. S. Norcross and Sons. 128,473; renewed Jan. 6, 1940.
Grinding machinery and parts thereof. Master, Wardens, Searchers, Assistants and Commonalty of the Company of Cutlers in the County of York. 369,861; Aug. 8; Serial No. 391,896; published May 31, 1938.
Machines and tools and parts thereof. Deming Company. 126,595; renewed Sept. 23, 1939.
Machinery mountings or supports. B. F. Goodrich Company. 369,913; Aug. 8; Serial No. 415,508; published May 30, 1939.
Mowers, Lawn. Allied Stores Corporation. 369,989; Aug. 8; Serial No. 417,792; published May 30, 1939.
Pumping machinery. Allis-Chalmers Manufacturing Company. 369,982; Aug. 8; Serial No. 417,739; published May 30, 1939.
Razor blades. Consolidated Razor Blade Co. 369,940; Aug. 8; Serial No. 416,505; published May 30, 1939.
Rolls and pulleys and motor mountings, Rubber covered. Hewitt Rubber Corporation. 369,980; Aug. 8; Serial No. 417,690; published May 30, 1939.
Separators, Centrifugal cream. Galloway Company. 369,891; Aug. 8; Serial No. 414,065; published May 30, 1939.
Steam and water separators. Superheater Company. 369,990; Aug. 8; Serial No. 417,852; published May 30, 1939.
Wrenches, Pipe. John W. Bauman & Son. 369,946; Aug. 8; Serial No. 416,791; published May 30, 1939.

CLASS 26

Films, Moving picture. J. E. Cade. 369,984; Aug. 8; Serial No. 417,742; published May 30, 1939.

Lenses, Camera. Universal Camera Corporation. 369,979; Aug. 8; Serial No. 417,631; published May 30, 1939.
Ophthalmic blanks and lenses tinted to reduce glare. Continental Optical Company. 369,943; Aug. 8; Serial No. 416,547; published May 30, 1939.
Ophthalmic mountings and lenses and parts thereof. Willson Products, Inc. 369,991; Aug. 8; Serial No. 417,856; published May 30, 1939.
Porcelain ware, Laboratory. Coors Porcelain Company. 370,009; Aug. 8.

CLASS 32

Blinds, Venetian. Washington Tent & Awning Co. 369,994; Aug. 8; Serial No. 417,989; published May 30, 1939.
Mattresses. Superior Felt & Bedding Company. 369,928; Aug. 8; Serial No. 416,165; published May 30, 1939.

CLASS 35

Tire casings, Rubber. General Tire and Rubber Company. 128,069; renewed Dec. 23, 1939.
Tire-casings. Armstrong Rubber Company. 370,003; Aug. 8.
Tires. Armstrong Rubber Company. 370,004; Aug. 8.

CLASS 36

Chime units and parts thereof, Electric. RCA Manufacturing Company. 369,894; Aug. 8; Serial No. 414,365; published May 30, 1939.

CLASS 37

Paper and stationery. L. Sainberg. 128,510; renewed Jan. 6, 1940.
Pencils, crayon-chalk, crayons, etc., Lead. American Lead Pencil Company. 126,621; renewed Sept. 30, 1939.
Penholders. American Lead Pencil Company. 126,622; renewed Sept. 30, 1939.

CLASS 39

Aprons, bathing suits, bathrobes, etc. Hyman Bros. 369,871; Aug. 8; Serial No. 403,872; published Apr. 25, 1939.
Belts, golf gloves and sport gloves, etc. Hermes, S. A. 369,944; Aug. 8; Serial No. 416,563; published May 23, 1939.
Belts, Ladies'. Champion Belt Manufacturing Co. 369,899; Aug. 8; Serial No. 414,622; published May 16, 1939.
Belts, Leather. A. Vogel. 369,892; Aug. 8; Serial No. 414,245; published May 16, 1939.
Boots, shoes, and slippers. General Shoe Corporation. 369,966; Aug. 8; Serial No. 417,335; published May 16, 1939.
Brassières, bandeaux, corselets, etc. Fay-Miss Brassiere Co. Inc. 369,949; Aug. 8; Serial No. 416,846; published May 2, 1939.
Brassières, bandeaux, corsets, etc. Maiden Form Brassiere Company. 369,886; Aug. 8; Serial No. 413,348; published Apr. 25, 1939.
Caps, Latex bathing. Barr Rubber Products Company. 369,880; Aug. 8; Serial No. 410,064; published May 16, 1939.
Clothing and wearing apparel, Sport and ski. Hirsch-Weis Manufacturing Company. 369,881; Aug. 8; Serial No. 411,954; published May 2, 1939.
Clothing, Boys' and children's. Elder Manufacturing Company. 128,052; renewed Dec. 23, 1939.
Clothing for men and boys. Raphael Weill & Company. 369,866; Aug. 8; Serial No. 402,039; published May 2, 1939.
Coats and capes, Rain. Burbrooke Manufacturing Co. 369,972; Aug. 8; Serial No. 417,485; published May 16, 1939.
Coats, suits, dresses, etc., Children's. Rosenblatt and Kahn. 369,884; Aug. 8; Serial No. 412,199; published Jan. 17, 1939.
Corsets. Wolfe & Lang, Inc. 369,970; Aug. 8; Serial No. 417,392; published May 23, 1939.
Footwear. Goodyear Footwear Corporation. 369,941; Aug. 8; Serial No. 416,509; published Apr. 25, 1939.
Garments, Foundation. B. A. von Hensler. 369,907; Aug. 8; Serial No. 415,365; published May 23, 1939.
Gloves. M. Merlier, Inc. 369,931–2; Aug. 8; Serial Nos. 416,330–1; published Apr. 25, 1939.
Gloves. Speare Glove Company. 369,911; Aug. 8; Serial No. 415,419; published Apr. 25, 1939.
Gloves. Superb Glove Company. 369,924; Aug. 8; Serial No. 416,122; published May 9, 1939.
Gloves processed to look like fur. Sellinger Glove Company. 369,872; Aug. 8; Serial No. 404,138; published May 16, 1939.
Handkerchiefs. Brooklyn Handkerchief Co. 369,961; Aug. 8; Serial No. 417,114; published May 23, 1939.
Hat bodies and hat hoods. Armand Schwab & Co. 369,963; Aug. 8; Serial No. 417,193; published May 23, 1939.
Hats. Byer-Rolnick Company. 369,917; Aug. 8; Serial No. 415,831; published May 9, 1939.
Hats. E. Schoen. 369,955; Aug. 8; Serial No. 416,923; published May 2, 1939.
Hats and dresses, Ladies'. S. Sturm. 369,927; Aug. 8; Serial No. 416,164; published May 9, 1939.
Hats, berets, and caps; etc. I. Olenik. 369,968; Aug. 8; Serial No. 417,386; published May 23, 1939.

Hats, caps, bonnets, etc. J. Hückel's Söhne. 369,874; Aug. 8; Serial No. 405,257; published Apr. 25, 1939.
Hats, Ladies'. Millinery Merchandising Executives Association, Inc. 369,919; Aug. 8; Serial No. 415,956; published Apr. 25, 1939.
Hats, Ladies'. Salfair, Inc. 369,935; Aug. 8; Serial No. 416,388; published Apr. 25, 1939.
Hats, Ladies' and misses'. Hess & Rubin, Inc. 369,863; Aug. 8; Serial No. 400,970; published Nov. 1, 1938.
Hats, Men's and boys' fur felt. Caradine Hat Company. 369,930; Aug. 8; Serial No. 416,312; published Apr. 25, 1939.
Hosiery, sweaters, pants, etc. Independent Wholesale Dry Goods Assn. Inc. 369,879; Aug. 8; Serial No. 409,237; published Oct. 11, 1938.
Lingerie, Women's. Garfinkel & Ritter. 370,018; Aug. 8.
Neckties. H. C. Cohn & Co. 369,920; Aug. 8; Serial No. 416,045; published May 9, 1939.
Neckties. Frank & Meyer Neckwear Company. 369,915; Aug. 8; Serial No. 415,770; published Apr. 25, 1939.
Neckties. Goldberg, Squire, Lesser & Cohen, Inc. 369,922; Aug. 8; Serial No. 416,063; published Apr. 25, 1939.
Neckties. Stern, Merritt Co. 369,905; Aug. 8; Serial No. 415,307; published May 9, 1939.
Neckties. Stern, Merritt Co. 369,906; Aug. 8; Serial No. 415,310; published May 9, 1939.
Neckties and mufflers. Dress-Well Neckwear Co. 369,936; Aug. 8; Serial No. 416,407; published May 9, 1939.
Pajamas, men's hats, coats, etc. Loveman, Joseph & Loeb. 369,895; Aug. 8; Serial No. 414,455; published May 16, 1939.
Shoes. H. Bashkes. 369,876; Aug. 8; Serial No. 406,902; published May 9, 1939.
Shoes. Educator Shoe Corporation of America. 369,867; Aug. 8; Serial No. 402,217; published May 16, 1939.
Shoes. Marshall Field & Company. 369,937; Aug. 8; Serial No. 417,004; published May 9, 1939.
Shoes. May Department Stores Company. 369,942; Aug. 8; Serial No. 416,514; published May 9, 1939.
Shoes. J. G. Menihan Corp. 369,958; Aug. 8; Serial No. 417,027; published May 23, 1939.
Shoes. Palizzio, Inc. 369,952; Aug. 8; Serial No. 416,913; published May 23, 1939.
Shoes. Superior Shoe Co. 369,976; Aug. 8; Serial No. 417,558; published May 23, 1939.
Shoes and slippers. S. Cuetara. 370,008; Aug. 8.
Shoes, Athletic. Converse Rubber Company. 369,971; Aug. 8; Serial No. 417,401; published May 23, 1939.
Shoes, Ladies'. I. Miller & Sons, Inc. 369,869; Aug. 8; Serial No. 403,516; published May 2, 1939.
Shoes, Ladies'. Seymour Troy, Inc. 369,975; Aug. 8; Serial No. 417,556; published May 16, 1939.
Shoes, Men's. Commonwealth Shoe and Leather Company. 369,887; Aug. 8; Serial No. 413,391; published May 9, 1939.
Shoes, oxfords, house-slippers, etc. Bach Shoe Company. 369,908–9; Aug. 8; Serial Nos. 415,370–1; published May 23, 1939.
Shoes, spats, heels, etc. Kitty Kelly Shoe Corporation. 369,898; Aug. 8; Serial No. 414,601; published May 9, 1939.
Shoes, stocking suspenders, and hockey knickers, Skating. C. C. M. Incorporated. 369,900; Aug. 8; Serial No. 414,651; published May 23, 1939.
Shoes, Women's. Gimbel Brothers, Inc. 369,914; Aug. 8; Serial No. 415,713; published May 2, 1939.
Shoes, Women's, girls', and children's. Wohl Shoe Company. 369,890; Aug. 8; Serial No. 413,887; published Feb. 28, 1939.
Slips, panties, nightgowns, etc. K. Smith. 369,923; Aug. 8; Serial No. 416,075; published May 9, 1939.
Soles and heels. Lima Cord Sole and Heel Company. 369,938; Aug. 8; Serial No. 416,468; published May 23, 1939.
Soles and heels, Composition. Avon Sole Company. 369,960; Aug. 8; Serial No. 417,112; published May 9, 1939.
Soles, Composition. Panther-Paneé Rubber Co. 369,945; Aug. 8; Serial No. 416,740; published May 2, 1939.
Soles, Rubber. A. G. Walton & Co. 369,912; Aug. 8; Serial No. 415,429; published May 23, 1939.
Suspenders, belts, and hose supporters. J. C. Penney Company. 369,934; Aug. 8; Serial No. 416,384; published May 9, 1939.
Sweaters, dresses, outer shorts, etc., Children's. R. H. Macy & Co. 369,904; Aug. 8; Serial No. 415,298; published Apr. 25, 1939.
Underwear, Ladies', misses' and children's. A. Adelman. 369,859; Aug. 8; Serial No. 382,197; published Oct. 20, 1936.
Wear, Infants'. Butler Brothers. 369,901; Aug. 8; Serial No. 414,816; published May 2, 1939.

CLASS 40

Braid, Hat. Armand Schwab & Co. 369,902; Aug. 8; Serial No. 414,979; published Apr. 25, 1939.
Braid, Hat. Armand Schwab & Co. 369,903; Aug. 8; Serial No. 414,980; published Apr. 18, 1939.
Buttons. Rochester Button Company. 369,992; Aug. 8; Serial No. 417,891; published May 23, 1939.
Curlers, wavers, clips, etc., Hair. A. J. Donahue Corporation. 369,921; Aug. 8; Serial No. 416,049; published May 9, 1939.
Fasteners and placket-fasteners, Snap-. Federal Snap Fastener Corporation. 127,391; renewed Nov. 11, 1939.
Fasteners and placket-fasteners, Snap-. Federal Snap Fastener Corporation. 128,062; renewed Dec. 23, 1939.
Hair pins. Arpin Products, Inc. 369,918; Aug. 8; Serial No. 415,932; published May 16, 1939.
Hoods, face make-up, and clothes. Venus Corporation. 369,962; Aug. 8; Serial No. 417,190; published May 23, 1939.
Needlework package outfits, Art. Bernard Ulmann Co. Inc. 369,910; Aug. 8; Serial No. 415,426; published May 9, 1939.
Tape such as is used by dress manufacturers, Binding. Max Pollack & Company. 370,005; Aug. 8.
Toilet sets, Dresser and bag. Celluloid Corporation. 369,997; Aug. 8; Serial No. 418,093; published May 23, 1939.

CLASS 42

Cotton drills. Boott Mills. 128,132; renewed Dec. 23, 1939.
Fabrics. Cheney Brothers. 126,519; renewed Sept. 16, 1939.
Fabrics. Eichmann & Hecht. 369,888; Aug. 8; Serial No. 413,823; published May 30, 1939.
Sheets and pillow cases. Loveman, Joseph, & Loeb. 369,896; Aug. 8; Serial No. 414,456; published May 30, 1939.
Towels, untreated polishing cloths, and wiping and wash cloths. Charles Schwartz & Co. 369,956; Aug. 8; Serial No. 416,963; published May 30, 1939.
Veilings, nettings, chiffons, etc. Glensder Textile Co. 128,072; renewed Dec. 23, 1939.
Wool and rayon fabrics, Woven. Kenya Corporation. 370,020; Aug. 8.
Woolen piece goods. Forstmann & Huffmann. 126,158; renewed July 29, 1939.

CLASS 44

Corn pads, Adhesive unmedicated felt. Scholl Mfg. Co. 369,969; Aug. 8; Serial No. 417,391; published May 30, 1939.
Lamps for medical and surgical purposes. H. E. Jarvis & Co. 370,001; Aug. 8; Serial No. 418,411; published May 30, 1939.
Wave apparatus, curler jackets, exothermic heating elements, etc., Permanent. Rilling-Arnao Company. 370,007; Aug. 8.

CLASS 45

Beverage and sirup and extract for making the same. J. G. Buston. 369,983; Aug. 8; Serial No. 417,741; published May 30, 1939.
Beverages, and sirups and extracts for making the same. Cherry Blossoms Manufacturing Company. 369,985; Aug. 8; Serial No. 417,745; published May 30, 1939.
Beverages, and sirups and extracts for making the same. O. J. Weiss. 370,000; Aug. 8; Serial No. 418,221; published May 30, 1939.
Beverages, and syrups for compounding the same. Seminole Flavor Company. 369,889; Aug. 8; Serial No. 413,882; published May 30, 1939.

CLASS 46

Apples, Fresh. Washington Fruit & Produce Co. 128,567; renewed Jan. 6, 1940.
Avocados. H. B. Griswold. 369,973; Aug. 8; Serial No. 417,537; published May 30, 1939.
Bakery products. National Biscuit Company. 369,875; Aug. 8; Serial No. 406,820; published May 16, 1939.
Bread. Washburn-Crosby Co. 127,797; renewed Dec. 2, 1939.
Buttermilk, Bottled. G. P. Gundlach. 370,015; Aug. 8.
Canned and frozen fish. Alaska Pacific Salmon Company. 369,870; Aug. 8; Serial No. 403,747; published May 30, 1939.
Canned fruits and vegetables. John Sexton & Co. 370,021; Aug. 8.
Canned shrimp à la creole, shrimpburger, creole gumbo, etc. Creole Food Co. 369,893; Aug. 8; Serial No. 414,339; published May 30, 1939.
Canned soups. Schuckl & Co. 369,965; Aug. 8; Serial No. 417,308; published May 30, 1939.
Canned vegetables. Winorr Canning Company. 369,951; Aug. 8; Serial No. 416,885; published May 30, 1939.
Canned vegetables, fruits, soups, etc. Fremont Canning Company. 369,865; Aug. 8; Serial No. 401,930; published May 30, 1939.
Chili sauce, catsup, finger peppers, etc. M. Rom & Sons Company. 369,862; Aug. 8; Serial No. 399,374; published May 30, 1939.
Coffee, Fluid. Quik-Kup Coffee, Inc. 369,858; Aug. 8; Serial No. 380,883; published May 30, 1939.
Conserves. Esbjerg Hermetikfabrik A/S. 369,885; Aug. 8; Serial No. 412,253; published May 30, 1939.
Eggs. Columbia Cheese Company. 127,361; renewed Nov. 11, 1939.
Feed, Dairy and poultry. Piggly Wiggly Corporation. 369,860; Aug. 8; Serial No. 382,615; published Nov. 15, 1938.
Foods. Mrs. E. G. Kidd, Inc. 128,245; renewed Dec. 30, 1939.
Foods. W. T. Rawleigh Company. 128,256; renewed Dec. 30, 1939.

Fruits and vegetables, Fresh citrus. H. Moyes. 369,939; Aug. 8; Serial No. 416,472; published May 30, 1939.
Fruits, Fresh citrus. East Whittier Citrus Ass'n. 126,671–2; renewed Sept. 30, 1939.
Fruits, Fresh citrus. East Whittier Citrus Ass'n. 127,604; renewed Nov. 18, 1939.
Fruits, Fresh citrus. East Whittier Citrus Ass'n. 128,229; renewed Dec. 30, 1939.
Fruit, Fresh citrus. Seaboard Lemon Association. 369,977; Aug. 8; Serial No. 417,590; published May 30, 1939.
Grapes, Fresh. M. Gilbert. 369,883; Aug. 8; Serial No. 412,133; published May 30, 1939.
Hominy coated with cheese flavoring, Popped. Borden Company. 369,967; Aug. 8; Serial No. 417,358; published May 30, 1939.
Macaroni. Keystone Macaroni Company. 128,415; renewed Jan. 6, 1940.
Milk albumen, buttermilk, milk sugar feed. Sunset Feed & Grain Co. Inc. 369,864; Aug. 8; Serial No. 401,228; published Sept. 6, 1939.
Preparation for use in baking and bakery products. American Lecithin Company. 369,964; Aug. 8; Serial No. 417,198; published May 30, 1939.
Preparation used in making ice cream. Meyenberg Milk Products Co. 369,897; Aug. 8; Serial No. 414,460; published May 30, 1939.
Pretzels, potato chips, and popt corn. Famous Foods, Inc. 369,882; Aug. 8; Serial No. 412,128; published May 30, 1939.
Sugar, fine cocoa, skim milk, etc., Blend of refined. Borden Company. 369,947; Aug. 8; Serial No. 416,792; published May 30, 1939.
Sugars produced from corn, Cereal. American Maise-Products Company. 369,873; Aug. 8; Serial No. 404,393; published May 30, 1939.
Tomato paste. J. Lehrman. 369,954; Aug. 8; Serial No. 416,768; published May 30, 1939.

CLASS 48

Beer. Tannhäuser Brewing Company. 369,999; Aug. 8; Serial No. 418,216; published May 30, 1939.
Beverages fermented from malt, hops, sugar, etc. Greenway's Inc. 369,998; Aug. 8; Serial No. 418,147; published May 30, 1939.

CLASS 49

Rum. Celestin, Ltd. 370,011; Aug. 8.
Whiskey. Cluff & Pickering, Ltd. 370,010; Aug. 8.

LIST OF LABELS

Absorbine. For Veterinary Liniment. W. F. Young, Inc. 53,370–1; Aug. 8.
Bisquick. For Biscuit Flour. General Mills, Inc. 53,348; Aug. 8.
"Black Leaf 40" Nicotine Sulphate. For Nicotine Sulphate. Tobacco By-Products & Chemical Corporation (Incorporated). 53,365; Aug. 8.
"Black Leaf" Worm Pellets. For a Scientifically Prepared Dry Compound of Nicotine that is Both Tasteless and Odorless for Control of Poultry Roundworm (Ascaridia Lineata). Tobacco By-Products & Chemical Corporation (Incorporated). 53,363; Aug. 8.
Dainty Noodle Soup Mix. For Noodle Soup Mix. Dainty Foods Manufacturers, Inc. 53,341; Aug. 8.
Georgia Maid. For Syrup. Roddenbery Brothers. 53,358; Aug. 8.
King Charles. For Coffee. Simpson Coffee, Inc. 53,361; Aug. 8.
Klerz-Fog Glass Cleaner. For a Glass Cleaner. H. B. Cowan. 53,340; Aug. 8.
Mackwin Garden Dust. For a Garden Dust. Mackwin Company. 53,352; Aug. 8.
Markwell 5000 RX Staples. For Staples. Markwell Mfg. Co. 53,353; Aug. 8.
Mayfair. For Beer. Eastern Brewing Corp. 53,342; Aug. 8.
Mayfair. For Ale. Eastern Brewing Corp. 53,343; Aug. 8.
Navy Best by Test. For Handkerchiefs. Southern Handkerchief Mfg. Co. 53,362; Aug. 8.
"Nico-Fume" Tobacco Powder Pressure-Fumigator for Fumigating Greenhouses. For Tobacco Powder Pressure-Fumigators for Fumigating Greenhouses. Tobacco By-Products & Chemical Corporation (Incorporated). 53,364; Aug. 8.
Noxo. For Hand Soap. T. A. Ferguson. 53,347; Aug. 8.
O-Cedar Self-Polishing Wax, No Rubbing, Rich Carnauba Base. For Self-Polishing Wax for all Floors. O-Cedar Corp'n. 53,356; Aug. 8.
Pioneer Bread. For Bread. N. Moss. 53,355; Aug. 8.
Qua-Lax. For a Medicine for Internal Usage. United Pharmaceuticals, Incorporated. 53,367; Aug. 8.
Reel Snow. For Artificial Snow. J. T. Jackson. 53,351; Aug. 8.
Reinforced. For Hair Nets. Improved Hair Net Co. 53,350; Aug. 8.
Slip-On. For Hair Nets. Improved Hair Net Co. 53,349; Aug. 8.
Special Morning Milk. For Evaporated Milk. Morning Milk Company. 53,354; Aug. 8.
Triangle. For Ale. Eastern Brewing Corp. 53,344; Aug. 8.
Triangle. For Beer. Eastern Brewing Corp. 53,345; Aug. 8.
Try-It. For Vitamin Mineral Supplement for Dogs and Cats. F. M. Sheldon. 53,360; Aug. 8.
Tyee Dehydrated Oyster Meat. For Dehydrated Oyster Meat. Tyee Oyster Company. 53,366; Aug. 8.
Wahl's Triplemint Chewing Gum. For Chewing Gum. H. T. Wahl. 53,368; Aug. 8.
Walker's Austex Mexican Style Beans with Chili Gravy. For Mexican Style Beans with Chili Gravy. Walker's Austex Chili Company. 53,369; Aug. 8.
Whirl-I-Gig! For a Game. L. Rubin. 53,359; Aug. 8.
Woman's Club. For Molasses. Penick & Ford, Ltd. Incorporated. 53,357; Aug. 8.
Yankee Farmer. For Blended Whiskey. Eddington Distilling Co. 53,346; Aug. 8.

LIST OF PRINTS

Grand for My Youngsters—Because It's Whole Wheat! For Cereal Food. General Mills, Inc. 17,527; Aug. 8.
How Much Sun Does the Baby Really Get? For Oleum Percomorphum. Mead Johnson & Company. 17,529; Aug. 8.
Its Always Leather Weather. For Leather. A. C. Lawrence Leather Company. 17,528; Aug. 8.
Parke-Davis Milk of Magnesia. For Milk of Magnesia. Parke, Davis & Company. 17,530; Aug. 8.
Parke-Davis Neko. For Germicidal Soap. Parke, Davis & Company. 17,531; Aug. 8.
Take A Tip. For Wine. J. Personeni. 17,532; Aug. 8.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Biszantz, Fred, assignor to The Galion Metallic Vault Company Galion, Ohio. Tire and tool carrying compartment in trucks. Re. 21,171; Aug. 8.

Fuller, Clarence W., Yonkers, N. Y., assignor to Shu-Life Spike Corporation. Spike for golf shoes. Re. 21,173; Aug. 8.

Galion Metallic Vault Company, The. (See Biszantz, Fred, assignor.)

Lorentzen, Hans K., Montclair, N. J., assignor to Lorentzen Hardware Manufacturing Corp., New York, N. Y. Mounting for Venetian blinds. Re. 21,174; Aug. 8.

Lorentzen Hardware Manufacturing Corp. (See Lorentzen, Hans K., assignor.)

Shu-Life Spike Corporation. (See Fuller, Clarence W., assignor.)

White, Albert F., Toronto, Ontario, Canada. Continuous conveyer. Re. 21,172; Aug. 8.

LIST OF PLANT PATENTEES

Conard-Pyle Company, The. (See Mallerin, Charles, assignor.)

Ecke, Paul, Encinitas, Calif. Poinsettia. 336; Aug. 8.

Mallerin, Charles, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa. Rose. 337; Aug. 8.

LIST OF DESIGN PATENTEES

Adlake Company, The. (See Stewart, Lemuel L., assignor.)

Albright, Raymond W., assignor to American Anode Inc., Akron, Ohio. Combined water and ice bag. 116,004; Aug. 8.

Allison Steel Manufacturing Company. (See Rau, John A., assignor.)

American Anode Inc. (See Albright, Raymond W., assignor.)

American Chain & Cable Company. (See Walklet, Mercer D., assignor.)

Ashmore, Leon H., Collingswood, assignor to The Esterbrooke Steel Pen Manufacturing Co., Camden, N. J. Pen and pencil clip. 116,005; Aug. 8.

Bartlett, Ross, Cortland, N. Y. Fisherman's wading boot. 116,009; Aug. 8.

Beidner, Benjamin, New York, N. Y. Tucked fabric. 116,103; Aug. 8.

Berry, Helen, New York, N. Y. Dress. 116,111; Aug. 8.

Baillod, Marce C. L., Paris, France. Lady's handbag or similar article. 116,006; Aug. 8.

Bakallie, Peter J., New York, N. Y. Combination drawing instrument. 116,007; Aug. 8.

Bakallie, Peter J., New York, N. Y. Combination drawing instrument. 116,008; Aug. 8.

Baker, Marlin S. (See Parker, K. S., and Baker.)

Botham, Arthur R., New York, N. Y., assignor to Coty, Inc., Wilmington, Del. Combined lipstick case and mirror. 116,010; Aug. 8.

Bovers, William J., Woodhaven, assignor to F. W. Woolworth Co., New York, N. Y. Display stand. 116,011; Aug. 8.

Brotman, Hyman D., Detroit, Mich. Washing machine cabinet. 116,012; Aug. 8.

Brown, Leo H., New York, N. Y. Telescope. 116,013; Aug. 8.

Brown, William, Scarsdale, N. Y. Rug. 116,014; Aug. 8.

Brown, William, Scarsdale, N. Y. Rug. 116,015; Aug. 8.

Buckingham, John D., assignor to Lucien Lelong, Inc., Chicago, Ill. Combined bottle and closure therefor. 116,016; Aug. 8.

Buckingham, John D., assignor to Lucien Lelong, Inc., Chicago, Ill. Perfume bottle or similar article. 116,017; Aug. 8.

Burrows, Robert J., and A. O. Williams, Battle Creek, assignors to Clark Equipment Company, Buchanan, Mich. Rail car truck. 116,112; Aug. 8.

Cathcard, Murinda M., Independence, Mo. Scribing tool. 116,018; Aug. 8.

Chalk, Benjamin, New York, N. Y. Coat. 116,019; Aug. 8.

Chicago Electric Manufacturing Company. (See Preston, Edward, assignor.)

Christen, Marcel, assignor to Ciro Fabrics, Inc., New York, N. Y. Textile fabric or similar article. 116,104; Aug. 8.

Ciro Fabrics, Inc. (See Christen, Marcel, assignor.)

Clark Equipment Company. (See Burrows, R. J., and Williams, assignors.)

Clark Equipment Company. (See Sundberg, C. W., and Ferar, assignors.)

Clerc, Leonard F., Chicago, Ill. Refrigerating display cabinet. 116,020; Aug. 8.

Clerc, Leonard F., Chicago, Ill. Refrigerating display cabinet. 116,021; Aug. 8.

Clerc, Leonard F., Chicago, Ill. Refrigerating display cabinet. 116,022; Aug. 8.

Columbia Protektosite Co. (See Lux, Eugene J., assignor.)

Coty, Inc. (See Botham, Arthur R., assignor.)

Cutler, Elizabeth, New York, N. Y. Dress. 116,113; Aug. 8.

Dodge, Howard M., Wabash, Ind., and H. T. Kraft, assignors to The General Tire & Rubber Company, Akron, Ohio. Combined mask and respirator. 116,023; Aug. 8.

E. A. Laboratories, Inc. (See Meyerhoefer, Carl E., assignor.)

Esterbrooke Steel Pen Manufacturing Co., The. (See Ashmore, Leon H., assignor.)

Exhibit Supply Company, The. (See Kelly, Leo J., assignor.)

Ferar, Montgomery. (See Sundberg, C. W., and Ferar.)

Flato, Paul E. (See Headley, George W., 3d, assignor.)

Gassman, Edward, Brooklyn, N. Y. Plug for bathtubs, sinks, and the like. 116,024; Aug. 8.

Geffner, Samuel H., New York, N. Y. Skirt or similar article. 116,114; Aug. 8.

Geller, Abraham, New York, N. Y. Dress. 116,115; Aug. 8.

General Tire & Rubber Company, The. (See Dodge, H. M., and Kraft, assignors.)

Gossard, H. W., Co., The. (See Wipperman, Hildegard, assignor.)

Grünzweig, Lorenz, Kew Gardens, N. Y. Combined rotary blotter and penholder. 116,025; Aug. 8.

Hammond, Clifford V., San Francisco, Calif. Infant's utility cabinet. 116,026; Aug. 8.

Harley, Bertron G., Saco, Maine. Trailer coupler or similar article. 116,027; Aug. 8.

Havey, Philip F., Washington, D. C. Cigarette holder. 116,028; Aug. 8.

Headley, George W., 3d, assignor to Paul E. Flato, New York, N. Y. Cuff link or similar article. 116,029; Aug. 8.

Heisey, A. H., & Company. (See Heisey, T. Clarence, assignor.)

Heisey, T. Clarence, assignor to A. H. Heisey & Company, Newark, Ohio. Glass jelly dish or article of similar nature. 116,030; Aug. 8.

Hohner, M., Inc. (See Vassos, John, assignor.)

Horstman, John H., assignor to The Huffman Manufacturing Company, Dayton, Ohio. Can opener. 116,031; Aug. 8.

Huffman Manufacturing Company, The. (See Horstman, John H., assignor.)

Jacknick, Harry, Arverne, Long Island, N. Y. Perfume bottle. 116,032; Aug. 8.

Jackson, James R., Alpine, N. J. Radio cabinet or similar article. 116,077; Aug. 8.

Jackson, James R., Alpine N. J., Radio cabinet or similar article. 116,079; Aug. 8.

Jacobs, Joseph H., Minneapolis, Minn. Engine driven electric generator unit. 116,078; Aug. 8.

Johnson, Clarence L., Burbank, Calif., assignor to Lockheed Aircraft Corporation. Airplane. 116,094; Aug. 8.

Jones, William M., Anderson, Ind. Pull-cord clip for window blinds or the like. 116,033; Aug. 8.

Katz, Adolph, New York, N. Y. Brooch or similar article. 116,095; Aug. 8.
Katz, Adolph, New York, N. Y. Brooch or similar article. 116,096; Aug. 8.
Kelly, Hattie E., Mineral Wells, Tex. Toy dog. 116,034; Aug. 8.
Kelly, Leo J., assignor to The Exhibit Supply Company, Chicago, Ill. Bowling alley. 116,035; Aug. 8.
Knapp, Ruthe E., New York, N. Y. Dress. 116,120; Aug. 8.
Knapp, Ruthe E., New York, N. Y. Dress. 116,121; Aug. 8.
Kraeft, Herman L., Cleveland Heights, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Toy wagon. 116,036; Aug. 8.
Kraft, Herman T. (See Dodge, H. M., and Kraft.)
Kuznetz, Samuel, New York, N. Y. Dress ensemble. 116,122; Aug. 8.
Kuznetz, Samuel, New York, N. Y. Dress ensemble. 116,123; Aug. 8.
Leissing, Ada H., Franklin, Mass. Folding bench or similar article of furniture. 116,037; Aug. 8.
Lelong, Lucien, Inc. (See Buckingham, John D., assignor.)
Lockheed Aircraft Corporation. (See Johnson, Clarence L., assignor.)
Lux, Eugene J., New York, N. Y., assignor to Columbia Protektosite Co., Inc., Carlstadt, N. J. Goggle. 116,038; Aug. 8.
Mace, Arthur T., East Cleveland, assignor to The Radiart Corporation, Cleveland, Ohio. Radio antenna or the like. 116,080; Aug. 8.
Madsen, Paul S., Bethany, assignor to The Seamless Rubber Company, Incorporated, New Haven, Conn. Comb. 116,039; Aug. 8.
Marder, Leo, Brooklyn, N. Y. Head for a hand mirror or similar article. 116,040; Aug. 8.
Marder, Leo, Brooklyn, N. Y. Head for a hand mirror or similar article. 116,041; Aug. 8.
Maurer, John E., Pomona, Calif. Dispensing cabinet for toilet seat covers. 116,042; Aug. 8.
McGarry, Everett J., Chicago, Ill. Display stand. 116,043; Aug. 8.
Metzger, Morris D., New York, N. Y. Coat. 116,044; Aug. 8.
Meyerhoefer, Carl E., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Heater casing. 116,045; Aug. 8.
Meyerhoefer, Carl E., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Heater. 116,046; Aug. 8.
Meyerhoefer, Carl E., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Heater. 116,047; Aug. 8.
Murray-Ohio Manufacturing Company, The. (See Kraeft, Herman L., assignor.)
Noble, Olber C., assignor to Tygart Valley Glass Company, Washington, Pa. Jar. 116,048; Aug. 8.
Noth, Dorothy-Ann M., Grosse Pointe Farms, Mich. Measuring device. 116,049; Aug. 8.
Novak, Syd, Chicago, Ill. Dress ensemble. 116,124; Aug. 8.
Parker, Kenneth S., and M. S. Baker, Janesville, Wis. Fountain pen. 116,097; Aug. 8.
Parker, Kenneth S., and M. S. Baker, Janesville, Wis. Fountain pen barrel. 116,098; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,081; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,082; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,083; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,084; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,085; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,086; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,087; Aug. 8.
Philippe, Alfred, New York, N. Y. Brooch or similar article. 116,088; Aug. 8.
Philippe, Alfred, New York, N. Y. Brooch or similar article. 116,089; Aug. 8.
Philippe, Alfred, New York, N. Y. Brooch or similar article. 116,090; Aug. 8.
Philippe, Alfred, New York, N. Y. Bracelet. 116,091; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,099; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,100; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,105; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,106; Aug. 8.
Philippe, Alfred, New York, N. Y. Pin clip. 116,107; Aug. 8.
Phillips, Samuel T. (See Worth, H., and Phillips.)
Poster, Sidney J., New York, N. Y. Dress. 116,116; Aug. 8.
Preston, Edward S., Hinsdale, assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Waffle iron or similar article. 116,127; Aug. 8.
Radiart Corporation, The. (See Mace, Arthur T., assignor.)
Rau, John A., assignor to Allison Steel Manufacturing Company, Phoenix, Ariz. Elevated tank. 116,052; Aug. 8.
Rauch, Albert, New York, N. Y. Fur collar. 116,050; Aug. 8.
Rauch, Albert, New York, N. Y. Fur collar. 116,051; Aug. 8.
Rembrecht, Therese, New York, N. Y. Pillowcase. 116,108; Aug. 8.
Ritz-Woller, Oliver C., Chicago, Ill. Combined rear view mirror and support therefor. 116,053; Aug. 8.
Ross, William P., Lakewood, assignor to The Standard Tool Co., Cleveland, Ohio. Drill holder. 116,054; Aug. 8.
Rost, Katheryn, New York, N. Y. Dress. 116,117; Aug. 8.
Ruchman, Albert, New York, N. Y. Dress. 116,125; Aug. 8.
Schiaparelli, Elsa, assignor to Societe Des Parfums Schiaparellis (Societe Anonyme), Paris, France. Perfume bottle. 116,055; Aug. 8.
Schlessel, Philip, New York, N. Y. Dress. 116,118; Aug. 8.
Seamless Rubber Company, The. (See Madsen, Paul S. assignor.)
Shapiro, Benjamin, New York, N. Y. Dress. 116,126; Aug. 8.
Shirk, Paul T., Lebanon, Pa. Flower holder. 116,056; Aug. 8.
Silverman, Jacob A., Brooklyn, N. Y. Fur collar. 116,057; Aug. 8.
Simonetti, Charles J., New York, N. Y. Slipper. 116,058; Aug. 8.
Simonetti, Charles J., New York, N. Y. Slipper. 116,059; Aug. 8.
Skellern, Victor, Fenton, Stoke-on-Trent, England, assignor to Josiah Wedgwood & Sons, Inc., of America, New York, N. Y. Plate or similar article. 116,060; Aug. 8.
Smithken, Murray, New York, N. Y. Coat. 116,061; Aug. 8.
Societe Des Parfums Schiaparelli (Societe Anonyme). (See Schiaparelli, Elsa, assignor.)
Standard Tool Co., The. (See Ross, William P., assignor.)
Stern, Max, Brooklyn, N. Y. Clock or similar article. 116,062; Aug. 8.
Stewart, Lemuel L., Elkhart, Ind., assignor to The Adlake Company. Lighting fixture or similar article. 116,063; Aug. 8.
Stinson, Jack B., Jackson Heights, N. Y. Pin. 116,064; Aug. 8.
Stinson, Jack B., Jackson Heights, N. Y. Pin. 116,065; Aug. 8.
Sundberg, C. W., and M. Ferar, Detroit, assignors to Clark Equipment Company, Buchanan, Mich. Industrial tractor. 116,092; Aug. 8.
Tillman, Abe, New York, N. Y. Textile fabric. 116,109; Aug. 8.
Tillman, Nathan, New York, N. Y. Textile fabric. 116,128; Aug. 8.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 116,101; Aug. 8.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 116,119; Aug. 8.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 116,129; Aug. 8.
Twomey, Madeline C., Brookline, Mass. Combined stopper and fingernail polish brush. 116,066; Aug. 8.
Tygart Valley Glass Company. (See Noble, Olbert C., assignor.)
Van Schuck, Leon F., New Orleans, La. Combined radio and advertising display. 116,093; Aug. 8.
Vassos, John, New Canaan, Conn., assignor to M. Hohner, Inc., New York, N. Y. Harmonica. 116,067; Aug. 8.
Vassos, John, New Canaan, Conn., assignor to M. Hohner, Inc., New York, N. Y. Harmonica. 116,068; Aug. 8.
Vassos, John, New Canaan, Conn., assignor to M. Hohner, Inc., New York, N. Y. Harmonica. 116,069; Aug. 8.
Walkiet, Mercer D., Akron, Ohio, assignor to American Chain & Cable Company, Inc. Automobile bumper guard. 116,070; Aug. 8.
Walkiet, Mercer D., Akron, Ohio, assignor to American Chain & Cable Company, Inc. Automobile bumper guard. 116,071; Aug. 8.
Wedgwood, Josiah, & Sons, Inc., of America. (See Skellern, Victor, assignor.)
Weil, Joseph, Brooklyn, N. Y. Brush or similar article. 116,072; Aug. 8.
Whelan, Daniel P., Merrick, N. Y. Transparent bar. 116,073; Aug. 8.
Williams, Alfred O. (See Burrows, R. J., and Williams.)
Wipperman, Hildegard, assignor to The H. W. Gossard Co., Chicago, Ill. Foundation garment. 116,110; Aug. 8.
Woolworth, F. W., Co. (See Bovers, William J., assignor.)
Worth, Henry, and S. T. Phillips, New York, N. Y. Container for perfume bottles. 116,074; Aug. 8.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 116,102; Aug. 8.
Zuckerman, Harry, New York, N. Y. Coat. 116,075; Aug. 8.
Zuckerman, Harry, New York, N. Y. Coat. 116,076; Aug. 8.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 8TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Aalborg, Christian, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Food mixer. 2,169,014; Aug. 8.
Abbey, Nelson D., Toledo, Ohio. Machine for cutting tubing. 2,168,853; Aug. 8.
Abegg, Walter A., assignor to J. Grant, Los Angeles, Calif. Rotary-drill well bit. 2,168,640; Aug. 8.
Abel, Paul, et al., executors. (See Lilienfeld, Leon.)
Adams, Leland J., Burbank, and F. Bracken, Los Angeles, Calif., assignors to Warner Bros. Pictures, Inc., New York, N. Y. Prime mover regulation. 2,168,927; Aug. 8.
Agnew, Arthur M., Maplewood, N. J. Nail or spike. 2,168,854; Aug. 8.
Agnew, Norman F., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Light signal. 2,168,785; Aug. 8.
Agnew, Norman F., assignor to The Union Switch & Signal Company, Swissvale, Pa. Remote control system. 2,168,786; Aug. 8.
Ahrndt, Arthur H., assignor to U. S. Slicing Machine Company, La Porte, Ind. Slicing machine. 2,168,612; Aug. 8.
Aiken, Thomas M., Pittsburgh, Pa. Camera. 2,168,893; Aug. 8.
Air-Way Electric Appliance Corporation. (See Dow, Dewey M., assignor.)
Akron Standard Mold Company, The. (See Bostwick, Henry C., assignor.)
Albertson, Carl W., Chicago, Ill. Compressor. 2,169,131; Aug. 8.
Albrecht, Otto, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Salts of dihexahydrocresyl sulphophthalates. 2,168,660; Aug. 8.
Alden, Milton, Brockton, Mass. Connector assembly. 2,168,382; Aug. 8.
Alexander, Harry, New York, N. Y. Holder for crossword puzzles. 2,168,551; Aug. 8.
Alexander, John M., Lincoln, Nebr. Automatic liquid vender. 2,168,552; Aug. 8.
Alexander, Walter R., Seattle, Wash. Dehydrating an emulsion. 2,168,309; Aug. 8.
Alfa Machine Company. (See Laukhuff, Alfred, assignor.)
Allen, Bona, Jr., Buford, Ga. Shoe. 2,168,948; Aug. 8.
Allen, Harold F. (See Olson, G. H., Schoelm, and Allen.)
Allen, Joseph W., East Orange, and H. W. Graybrook, Roselle Park, assignors to Eclipse Aviation Corporation, East Orange, N. J. Power control. 2,168,921; Aug. 8.
Allensworth, Harry R., Columbus, Ohio. Portable electric communication network. 2,168,310; Aug. 8.
Allis-Chalmers Manufacturing Company. (See Winograd, Harold, assignor.)
Alnutt, Donald B., assignor to Mallinckrodt Chemical Works, St. Louis, Mo. Acid resist powder for use in etching. 2,168,756; Aug. 8.
Aluminum Company of America. (See Mason, Ralph B., assignor.)
American Bitumuls Company. (See Montgomerie, J. A., and Archibald, assignors.)
American Box Board Company. (See Robrahn, Ira C., assignor.)
American Cyanamid & Chemical Corp. (See Jaeger, A. O., and Herrlinger, assignors.)
American Cyanamid & Chemical Corporation. (See West, H. J., and Jaeger, assignors.)
American Eyelet Co., Inc. (See Levine, Harry, assignor.)
American Machine & Foundry Company. (See Waite, Wilfred, assignor.)
American Monorail Company, The. (See Harris, Frank C., assignor.)
American Paper Tube Co. (See Amrhein, Harald L., assignor.)
American Sealcone Corporation. (See Winton, Lewis B., assignor.)
American Seating Company. (See Merrill, Ralph K., assignor.)
Ames, Adelbert, Jr., assignor to Trustees of Dartmouth College, Hanover, N. H. Testing perception of space. 2,168,308; Aug. 8.
Amrhein, Harald L., assignor to American Paper Tube Co., Woonsocket, R. I. Flat quill or bobbin. 2,168,465; Aug. 8.
Anaconda Wire and Cable Company. (See Olson, John W., assignor.)
Anchor Cap & Closure Corporation. (See Gibbs, John C., assignor.)
Anchor Cap and Closure Corporation. (See Von Till, Louis A., assignor.)
Anciens Etablissements Barbier, Benard & Turenne. (See Mestre, Louis N., assignor.)
Anderson, Carl J., Lakewood, and J. C. McKee, assignors to Mullins Manufacturing Corporation, Salem, Ohio. Trailer. 2,168,661; Aug. 8.
Anderson, Carl O. (See Clemmer, J. B., and Anderson.)
Anderson, Joseph A. (See Johnson, Jonas F., assignor.)
Andis, Mathew, Racine, Wis. Replaceable hair clipping blade set. 2,168,642; Aug. 8.
Andrews, O. B., Company. (See Scott, Raymond C., assignor.)
Arbogast, Alfred C., assignor to Northern Indiana Brass Company, Elkhart, Ind. Die mechanism. 2,168,641; Aug. 8.
Arbogast, Johnson A., Akron, Ohio. Artificial fish bait. 2,168,894; Aug. 8.
Archibald, Peter K. (See Montgomerie, J. A., and Archibald.)
Armour and Company. (See Littlefield, Verne D., assignor.)
Armour and Company. (See Ralston, Anderson W., assignor.)
Armour and Company. (See Ralston, A. W., and Pool, assignors.)
Armstrong, Victor C., Short Hills, N. J., assignor to Poor & Company, New York, N. Y. Spike. 2,169,132; Aug. 8.
Asari, Kumaki, Ebara-ku, Tokyo, Japan. Diving mask. 2,168,695; Aug. 8.
Ashmore, Leon H., Collingswood, assignor to The Esterbrook Steel Pen Manufacturing Company, Camden, N. J. Blank for and making writing pens. 2,168,311; Aug. 8.
Askania-Werke A. G. (See Ziebolz, H., and Velten, assignors.)
Asnes, Benjamin, assignor to Dennison Manufacturing Company, Framinghm, Mass. Creped paper and making same. 2,168,895; Aug. 8.
Asnes, Benjamin, assignor to Dennison Manufacturing Company, Framingham, Mass. Creping and coating paper. 2,168,896; Aug. 8.
Aspenes, Manthen, Bruce, assignor to E. F. Pratt, Ladysmith, Wis. Seeder. 2,168,855; Aug. 8.
Associated Electric Laboratories, Inc. (See Peterson, Edward S., assignor.)
Associated Electric Laboratories, Inc. (See Peterson, S., and Gonseth, assignors.)
Atlantic Refining Company, The. (See Cowles, H. C., Jr., and Hersberger, assignors.)
Atlantic Refining Company, The. (See Ferris, Seymour W., assignor.)
Atwood, Winfield A., Yeadon, Pa., assignor to General Electric Company. Circuit breaker. 2,169,085; Aug. 8.
Auer, Gustavus, Snyder, N. Y. Pipe still. 2,169,086; Aug. 8.
Auriol, Albert and A., Brussels, Belgium. Process and apparatus for the direct production of steel and other metals from ore. 2,168,597; Aug. 8.
Auriol, Andre. (See Auriol, Albert and A.)
Automatic Control Corporation. (See Persons, Lawrence M., assignor.)
Automatic Instrument Company. (See Olson, Phillip W., assignor.)
Automatic Switch Co. (See Hurlburt, Wilbur F., assignor.)
Ayers Mineral Company, The. (See Crew, Joshua A., assignor.)
Ayers, Samuel H., and C. W. Lang, Philadelphia, Pa., assignors to Crown Can Company. Treating food products. 2,168,506; Aug. 8.
B R E Manufacturing Co. (See Leslie, Howard C., assignor.)
Babcock, David A., and H. E. Van Derhoef, assignors to Eastman Kodak Company, Rochester, N. Y. Web coating apparatus. 2,168,968; Aug. 8.
Babcock Garrison, Seattle, assignor to A. H. B. Jordan, Everett, Wash. Radio program annunciator. 2,168,662; Aug. 8.
Bagnell, Robert A. (See Howe, A. F., and Bagnell.)
Babis, Walter E., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Auxiliary electrode. 2,169,015; Aug. 8.
Baillard, Hamilton, New York, N. Y., and V. B. Pike, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cable plug in sleeves. 2,168,757; Aug. 8.
Baillie, Wallace E., McDonald, Pa., assignor to Standard Railway Refrigerator Company, Chicago, Ill. Refrigerator car. 2,168,553; Aug. 8.
Baily, Thaddeus F., Alliance, Ohio. Producing phosphorus. 2,168,312; Aug. 8.

Baker Castor Oil Company, The. (See Colbeth, Ivor M., assignor.)

Baker, George R., and J. C. Paterson, Peterborough, England, assignors to Baker Perkins Company, Inc. Roll refiner and the like. 2,168,383; Aug. 8.

Baker-Lockwood Mfg. Company. (See Mellor, Wilbur L., assignor.)

Baker Perkins Company. (See Baker, G. R., and Paterson, assignors.)

Baker Perkins Company Inc. (See Paterson, John C., assignor.)

Baker, Rest R., Swissvale, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Synchro-tie control. 2,169,016; Aug. 8.

Balke, Hans. (See Kalser, W., and Balke.)

Banker, Oscar H., assignor to New Products Corporation, Chicago, Ill. Automatic clutch mechanism. 2,168,856; Aug. 8.

Banning, Frederick D., Meadville, Pa., assignor to Talon, Inc. Separable fastener. 2,168,598; Aug. 8.

Barber-Greene Company. (See Barber, Harry H., assignor.)

Barber, Harry H., assignor to Barber-Greene Company, Aurora, Ill. Propelling and finishing units. 2,168,507; Aug. 8.

Barbour, Kenneth H., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Wireless aerial system. 2,168,857; Aug. 8.

Barker, Lorenzo T., assignor to The Cleveland Shopping News Company, Cleveland, Ohio. Printing press paper protector. 2,168,613; Aug. 8.

Barrell, William A., North Andover, assignor to Lawrence Duck Company, Lawrence, Mass. Single ply asbestos faced drier felt. 2,168,928; Aug. 8.

Barr, James A., Dallas, Tex. Ice cube making machine. 2,169,133; Aug. 8.

Barry, William F., Los Angeles, Calif. Flying object and apparatus for its simulated flight. 2,168,384; Aug. 8.

Barthelemy, René, Fontenay aux Roses, assignor to Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz, Montrouge (Seine), France. Relaxation oscillation generator. 2,168,508; Aug. 8.

Barton, Sam. (See Silverstein, Sam.)

Bassick Company, The. (See Herold, Walter F., assignor.)

Bastian-Blessing Co., The. (See Buttner, William C., assignor.)

Batchelder, Howard R. (See Shoemaker, B. H., and Batchelder.)

Bater, Charles C. (See Coleman, A. M., Bater, and Lee.)

Bates, Sidney E., Chicago, Ill., assignor, by mesne assignments, to Poor & Company. Supporting clamp for track lubricators. 2,168,554; Aug. 8.

Battin, Harold T., Ridgewood, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Continuous conveying apparatus. 2,168,555; Aug. 8.

Baudry, René A., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Damper winding for high speed salient-pole machines. 2,169,017; Aug. 8.

Bauer, David M., Norristown, assignor to Trisco Products, Inc., Philadelphia, Pa. Support for stocking forms. 2,169,134; Aug. 8.

Baumgarten, Imre, Budapest, Hungary. Circular loom. 2,168,385; Aug. 8.

Baurmann, Fred W. (See Gilstrap, F. M., and Baurmann.)

Bauroth, Walter J., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Plug type switch. 2,168,663; Aug. 8.

Baxter, James G., assignor, by mesne assignments, to Distillation Products, Inc., Rochester, N. Y. Hydrocarbons from vacuum distillation of fish oil. 2,169,192; Aug. 8.

Bayes, Elijah W., Parsons, Kans. Road-grading device. 2,168,664; Aug. 8.

Bayley, William D., Springfield, Ohio. Window assembly. 2,168,922; Aug. 8.

Beardsley, Clarence W., East Detroit, Mich. Made-up handkerchief. 2,168,787; Aug. 8.

Beck, August, assignor to Waite Carpet Company, Oshkosh, Wis. Rug. 2,168,696; Aug. 8.

Beeler, Charles F., Hamilton, Ohio. Air conditioning. 2,168,614; Aug. 8.

Beers, George L., Haddonfield, N. J., assignor to Westinghouse Electric & Manufacturing Company. Electric wave reception. 2,169,018; Aug. 8.

Behney, Mason F. (See Hart, D. W., and Behney.)

Beisel, Rex B., and A. L. MacClain, West Hartford, assignors to The United Aircraft & Transport Corporation, East Hartford, Conn. Air regulating means. 2,168,599; Aug. 8.

Belfield, H., Company. (See Goehring, Francis R., assignor.)

Bell & Howell Company, The. (See Howell, Albert S., assignor.)

Bell, John M., Chester, S. C. Viscosimeter. 2,168,386; Aug. 8.

Bell, Leroy V., Wakefield, R. I. Lathing. 2,168,466; Aug. 8.

Bell, Milo C. (See Holmes, H. B., Blood, and Bell.)

Bell Telephone Laboratories, Incorporated. (See Baillard, H., and Pike, assignors.)

Bell Telephone Laboratories, Incorporated. (See Calbick, Chester J., assignor.)

Bell Telephone Laboratories, Incorporated. (See Fisher, Earl L., assignor.)

Bell Telephone Laboratories, Incorporated. (See Gray, Frank, assignor.)

Bellamy, Harry T., Evanston, Ill. Heater and burner therefor. 2,168,758; Aug. 8.

Bellin, Daniel J., New York, N. Y. Carrying carton. 2,168,387; Aug. 8.

Bemis, Kenneth E., Oakland, Calif. Barbecue furnace. 2,168,388; Aug. 8.

Bemis, Kenneth E., Oakland, Calif. Apparatus for making sandwiches. 2,168,389; Aug. 8.

Bemis, Kenneth E., Oakland, Calif. Meat carrier for meat cooking devices. 2,168,390; Aug. 8.

Bemis, Kenneth E., Oakland, Calif. Baking and cooking oven. 2,168,391; Aug. 8.

Bendix Aviation Corporation. (See Olshevsky, Dimitry E., assignor.)

Bendix Aviation Corporation. (See Paine, Willard B., assignor.)

Bendix Products Corporation. (See Burnett, Richard T., assignor.)

Bendix Products Corporation. (See Goepfrich, Rudolph A., assignor.)

Bendix Products Corporation. (See Irving, John S., assignor.)

Bendix-Westinghouse Automotive Air Brake Company. (See Johnson, Stephen, Jr., assignor.)

Bendix-Westinghouse Automotive Air Brake Company. (See Leukhardt, Arthur R., assignor.)

Bennett, Charles E., Ridgewood, assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J. Electric cable system. 2,168,858; Aug. 8.

Bennett, Owen G., assignor to Catalyst Research Corporation, Pittsburgh, Pa. Ampoule sealing apparatus. 2,168,509; Aug. 8.

Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Electric cut-out. 2,169,087; Aug. 8.

Benson, Archie E., Miles City, Mont. Headlight indicator. 2,168,510; Aug. 8.

Bentz, Eugen, Coblenz, and J. Jaenicke, Frankfort-on-the-Main, assignors to Gewerkschaft Keramchemie-Berggarten, Siershahn, Westerwaid, and Metallgesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany. Stratiform structure impervious to liquids. 2,168,949; Aug. 8.

Berger, Friedrich W. F., Berlin-Neukolln, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 2,168,511; Aug. 8.

Bergey, William H., Smneytown, Pa. Liquid-fuel-burning apparatus. 2,168,859; Aug. 8.

Berndt, Walter, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Variable-length antenna. 2,168,860; Aug. 8.

Berner, Leo, Huntington Park, Calif. Drag bucket control. 2,168,643; Aug. 8.

Bernstein, Jacob, Omaha, Nebr. Transport tank structure. 2,168,615; Aug. 8.

Bertrand, William A. (See Smith, L. G., and Bertrand.)

Bertwell, William. (See Hewes, L. I., and Bertwell.)

Betzing, Peter R., Los Angeles, Calif. Rod coupling. 2,168,759; Aug. 8.

Bichowsky, Francis R., Toledo, Ohio. Combustion means. 2,168,313; Aug. 8.

Bickerstaff, Judson L., Biloxi, Miss. Iced-cocktail container. 2,168,969; Aug. 8.

Bidwell, Edgar M., Clarendon Hills, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Material working apparatus. 2,169,036; Aug. 8.

Bieder, Thomas W., et al. (See Kaufman, Irving, assignor.)

Biller, Hans, Nuremberg, Germany, assignor to Transatlantic Factors Inc., New York, N. Y. Mechanically moving toy. 2,168,788; Aug. 8.

Birch, Charles, Chicago, Ill. Play device. 2,168,392; Aug. 8.

Bird, Len O. (See Brodersen, M. M., and Bird.)

Bittner, Leroy S., Elysburg, Pa. Brake shoe adjuster. 2,168,950; Aug. 8.

Blackburn, Philip W., East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Stroboscopic lamp. 2,168,861; Aug. 8.

Blackmond, William C., Ranger, assignor of twenty-five percent to J. H. Reynolds, Cisco, Tex. Chlorinator. 2,168,616; Aug. 8.

Blanks, James L., Seattle, Wash. Touch time watch. 2,168,314; Aug. 8.

Blood, Henry F. (See Holmes, H. B., Blood, and Bell.)

Blum, Carl R., Berlin-Marienfelde, Germany. Phonorhythm process and apparatus for carrying it out. 2,168,467; Aug. 8.

Blum, Leo J., Macon, Ga. Battery lifter. 2,169,119; Aug. 8.

Blumer, Manuel, Butler, Pa., assignor to L. Sonnenborn Sons, Inc. Purification of petroleum mahogany sulphonates. 2,168,315; Aug. 8.

Blydenburgh, Harold L. (See George, E. S., and Blydenburgh.)

Bockmühl, Max, and G. Ehrhart, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Preparing glucosides having an action on the heart obtained from oleander leaves. 2,168,789; Aug. 8.

Bockmühl, Max, and H. Hermann, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Isoquinoline compounds and derivatives thereof. 2,168,929; Aug. 8.

Bogue, Harold. (See Parmeter, Walter N., assignor.)

Böhm, Otto, and R. Hofer, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Modulation circuit. 2,169,019; Aug. 8.

Bond, Austin, New York, N. Y. Machine for reconditioning bale bands, box strappings, and the like. 2,168,435; Aug. 8.

Bond Manufacturing Corporation. (See Thomas, Edwin H., assignor.)

Bone, Herbert L., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch operating apparatus. 2,168,790; Aug. 8.

Bonsall, Charles D., Pittsburgh, Pa., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Refrigerator car. 2,168,556; Aug. 8.

Bonsall, Charles D., Pittsburgh, Pa., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Top bunker refrigerator car. 2,168,557; Aug. 8.

Booth, George D., Marshfield, Wis. Hay carrier. 2,168,393; Aug. 8.

Bostwick, Henry C., Coventry Township, Summit County, assignor to The Akron Standard Mold Company, Akron, Ohio. Tire building drum. 2,168,897; Aug. 8.

Bosworth, James H., Sandpoint, Idaho, and O. G. Conrad, Missoula, Mont., dedicated to the free use of the People in the territory of the United States. Trenching machine. 2,169,079; Aug. 8.

Bowman, Louis G., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blind stitch sewing machine. 2,168,727; Aug. 8.

Boyce Thompson Institute for Plant Research, Inc. (See Zimmerman, P. W., and Hitchcock, assignors.)

Brace, Porter H., Forest Hills Boro, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Making resistor elements. 2,169,020; Aug. 8.

Bracken, Frank. (See Adams, L. J., and Bracken.)

Bradshaw, Joe B., Stanford, Ky. Highway guard. 2,168,930; Aug. 8.

Branam, Ellsworth, Mendon, Ohio. Corn popper. 2,168,665; Aug. 8.

Brandenberger, Heinrich, Zurich, Switzerland. Machine tool with hydraulic copying device. 2,169,135; Aug. 8.

Brandt, David G., Westfield, assignor to Power Patents Company, Hillside, N. J. Distillation and fractionation process and apparatus. 2,168,316; Aug. 8.

Brasher, Samuel M., Decimal, Manitoba, Canada. Radio signal receiving system. 2,168,923; Aug. 8.

Bratek, Frank B. (See Dziedzic, N. J., and Bratek.)

Braun, Karl, Frohnau, near Berlin, and R. Rosenbusch, Dahlem, near Berlin, assignors to J. D. Riedel-E. de Haen Aktiengesellschaft, Berlin-Britz, Germany. Manufacture of fluid phosphatide preparations. 2,168,468; Aug. 8.

Brenkert, Karl, assignor to Brenkert Light Projection Company, Detroit, Mich. Electrode feeding mechanism. 2,168,697; Aug. 8.

Brenkert Light Projection Company. (See Brenkert, Karl, assignor.)

Brenner, Eve, et al. (See Brenner, Robert R., assignor.)

Brenner, Robert R., assignor to E. Brenner and R. Kaiser, Milwaukee, Wis. Artificial brick corner construction. 2,169,136; Aug. 8.

Bretschneider, Otto. (See Seliger, H., and Bretschneider.)

Bridgeport Thermostat Company. (See Macdonald, William F., assignor.)

Brigham, Donald S., Newton, Mass., and W. J. Schwertfeger, Bogota, N. J., assignors, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, as trustee. Packing material. 2,168,317; Aug. 8.

Brodersen, Max M., Alhambra, and L. O. Bird, Glendale, Calif.; said Brodersen assignor to said Bird. Heavy duty scraper. 2,168,318; Aug. 8.

Brodersen, Max M., Alhambra, and L. O. Bird, Glendale, Calif.; said Brodersen assignor to said Bird. Heavy duty scraper. 2,168,319; Aug. 8.

Brouwer, Rodger D., Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Antifriction bearing. 2,168,469; Aug. 8.

Brown, Ellis V. (See Pasternack, R., and Brown.)

Brown, Jesse J., Syracuse, N. Y. Telephonic house protection system. 2,168,620; Aug. 8.

Brown, Leonard. (See Francisco, Charles H. and W., and Brown.)

Brown, William, Wollaton Park, Nottingham, assignor to Sturmey-Archer Gears Limited, Nottingham, England. Epicyclic change speed gear. 2,168,600; Aug. 8.

Browning, Albert E., Detroit, Mich. Target indicating game. 2,168,644; Aug. 8.

Browning, Sarah E., adminstratrix. (See Browning, Thomas C.)

Browning, Thomas C., deceased; S. E. Browning, administratrix, Springfield, Mass. Air line trap. 2,168,512; Aug. 8.

Bruce, Robert A., et al. (See Losure, Lisander, assignor.)

Bruen, George C., assignor to Rotary Index Co., Inc., Chicago, Ill. Rotary card index. 2,168,323; Aug. 8.

Brush Development Company, The. (See Pfundt, Paul, assignor.)

Bruss, Franz, Lichtenberg, near Berlin, Germany, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Chassis frame for vehicles. 2,168,436; Aug. 8.

Bryant, Will H., assignor of fifty per cent to A. W. Reed, Little Rock, Ark. Slack adjuster. 2,169,137; Aug. 8.

Buckendale, Lawrence R., assignor to The Timken-Detroit Axle Company, Detroit, Mich. Automotive multiwheel vehicle. 2,168,970; Aug. 8.

Bucknam, James H. (See Pufahl, H. R., and Bucknam.)

Budd, Edward G., Manufacturing Company. (See Bruss, Franz, assignor.)

Budd, Edward G., Manufacturing Company. (See Landell, Stanford, assignor.)

Budd, Edward G., Manufacturing Company. (See Trautvetter, George, assignor.)

Buercklin, Kenneth O., St. Louis, Mo. Injection device. 2,169,437; Aug. 8.

Bunt, Alfred P., and T. G. Hitt, Seattle, Wash.; said Bunt assignor to said Hitt. Device for flame signals. 2,168,698; Aug. 8.

Burk, Robert E., assignor to The Standard Oil Company, Cleveland, Ohio. Manufacture of oxidized petroleum acid compounds. 2,168,699; Aug. 8.

Burke & James, Inc. (See Pleiss, Walter H., assignor.)

Burnett, Richard T., Mishawaka, assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,168,700; Aug. 8.

Burrell, Loomis, Little Falls, and R. K. Miner, Oriskany Falls, N. Y., assignors to Cherry-Burrell Corporation, Chicago, Ill. Receptacle and closure cap therefor. 2,168,321; Aug. 8.

Bursick, Edward R., Omaha, Nebr., assignor, by mesne assignments, to Industrial Patents Corporation, Chicago, Ill. Tongue protector and extractor therefor. 2,168,728; Aug. 8.

Burson Knitting Company. (See Hinchliff, Edward C., assignor.)

Busby, Robert S., West Palm Beach, Fla. Internal combustion motor. 2,169,120; Aug. 8.

Butler, James E., Woodville, Ala. Change speed mechanism for bicycles. 2,168,322; Aug. 8.

Butterfield, Wendell. (See Lane, G. T., and Butterfield, assignors.)

Buttner, William C., Winnetka, assignor to The Bastian-Blessing Co., Chicago, Ill. Automatic throw-over. 2,168,701; Aug. 8.

Cady, John E., Indianapolis, Ind., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Pneumatic tire. 2,169,037; Aug. 8.

Caestecker, Charles E., Chicago, Ill. Rebound spring. 2,168,558; Aug. 8.

Calbick, Chester J., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Cathode ray device. 2,168,760; Aug. 8.

Caldwell, Samuel P., Hamden, assignor to The Greist Manufacturing Company, New Haven, Conn. Device for viewing films. 2,168,761; Aug. 8.

Caldwell, William T., Vivian, La. Flexible service tube or hose housing. 2,168,951; Aug. 8.

Caldora, Armand, Brooklyn, assignor of one-half to P. Michielli, Woodhaven, Long Island, N. Y. Hair curler. 2,169,021; Aug. 8.

Canal National Bank of Portland, The, as trustee. (See (Brigham, D. S., and Schwertfeger, assignors.)

Cannon, Michael R., State College, Pa. Treating mineral oils. 2,168,666; Aug. 8.

Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Increasing the effective speed of a photographic element. 2,168,971; Aug. 8.

Carney, Daniel E., assignor to J. M. Magee and H. I. Neaman, Pittsburgh, Pa. Renewable electric fuse. 2,168,791; Aug. 8.

Carrasco-Sánchez, Manuel, New York, N. Y. Motor. 2,168,672; Aug. 8.

Carre, Frederick W. L., Lachine, Quebec, Canada. Ball game. 2,169,038; Aug. 8.

Carrier Corporation. (See Carrier, Willis H., assignor.)

Carrier Corporation. (See Grant, Walter A., assignor.)

Carrier, Willis H., Essex Fells, assignor, by mesne assignments, to Carrier Corporation, Newark, N. J. Refrigerant circulation. 2,168,438; Aug. 8.

Carter, Leonard F., Colorado Springs, Colo. Automatic automobile signal light switch. 2,169,088; Aug. 8.

Carter, William, Company, The. (See Redmond, Harriet L., assignor.)

Carver, Emmett K., assignor to Eastman Kodak Company, Rochester, N. Y. Removing air bubbles from film dope. 2,168,972; Aug. 8.

Carver, Melvin, Carlsbad, N. Mex. Automobile-hood lock. 2,168,973; Aug. 8.

Case, Oliver M., assignor to F. B. C. Mini, Evansville, Ind. Fastening device. 2,168,324; Aug. 8.

Catalin Corporation of America. (See Flood, W. E., and Howells, assignors.)

Catalyst Research Corporation. (See Bennett, Owen G., assignor.)

Causey, Daniel W., Norfolk, Va. Adjustable bed rail connector. 2,169,138; Aug. 8.

Cavins, Paul, Long Beach, Calif. Sand pump. 2,168,729; Aug. 8.

Cawein, Madison. (See Lewis, H. M., and Cawein.)

Cedrone, Nazzareno F. (See Montardo, Agostino C., assignor.)
Celanese Corporation of America. (See Schwartz, Aaron, assignor.)
Celluloid Corporation. (See Shuman, Royal L., assignor.)
Celmer, Vincent. (See Lofgren, H. A., and Celmer.)
Cen-Tennial Cotton Gin Co. (See Steinhauer, William L., assignor.)
Cernak, Paul, Montvale, N. J., assignor to Dexter Folder Company, New York, N. Y. Sheet feeding apparatus. 2,168,559; Aug. 8.
Chandonia, John E., assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio. Hearth pen structure. 2,168,470; Aug. 8.
Chaplin, John H., West Hartford, Conn., assignor, by mesne assignments, to The Wayne Pump Company, Fort Wayne, Ind. Safety locking means for speed variating mechanism of liquid dispensing apparatus. 2,168,439; Aug. 8.
Charlton, Edgar A., assignor to International Paper Company, New York, N. Y. Process and apparatus for the manufacture of paper. 2,168,560; Aug. 8.
Chase-Shawmut Company, The. (See Wood, Morris B., assignor.)
Chaslyn Company, The. (See Linebarger, Charles E., assignor.)
Cherry-Burrell Corporation. (See Burrell L., and Miner, assignors.)
Chicago Bridge & Iron Company et al. (See Wiggins, J. H., and Larson, assignors.)
Chicago Electric Manufacturing Company. (See Preston, Edward S., assignor.)
Chicago Pneumatic Tool Company. (See Lear, Earl B., assignor.)
Christensen, Alfred C., and A. G. Granath, assignors to H. S. Simpson, Chicago, Ill. Single wheel mold conveyer. 2,168,898; Aug. 8.
Christensen, Paul M., Newington, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Electric switch. 2,168,747; Aug. 8.
Christie, John, assignor to Eastman Kodak Company, Rochester, N. Y. Double exposure prevention camera. 2,168,974; Aug. 8.
Chubb, Lewis W., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Display device. 2,169,022; Aug. 8.
Church, Raymond E., Cincinnati, and G. L. Sellars, Milford, Ohio; said Sellars assignor to said Church. Apparatus for grading material. 2,168,838; Aug. 8.
Cicchiello, Ralph, Waterbury, Conn. Pot or pan lifting implement. 2,168,730; Aug. 8.
Ciringione, Michael, Woodside, N. Y. Foundation garment. 2,168,931; Aug. 8.
Clark Controller Company, The. (See Rippl, Charles H., assignor.)
Clark Equipment Company. (See Lapsley, Robert, assignor.)
Clark, Robert K., Flossmoor, Ill. Supporting harness for pails. 2,169,080; Aug. 8.
Clarke, David M. (See Overmier, E., Rodman, and Clarke.)
Clarke, Dumont, Asheville, N. C. Massaging device. 2,168,975; Aug. 8.
Clarke, Dumont, Manchester, Vt. Auto cushion. 2,168,976; Aug. 8.
Clemmer, Julius B., Rolla, Mo., and C. O. Anderson, Baxter Springs, Kans., assignors to Mahoning Mining Company, Youngstown, Ohio. Concentrating fluorspar ores. 2,168,762; Aug. 8.
Cleveland Shopping News Company, The. (See Barker, Lorenzo T., assignor.)
Cloud, Earl L., Pampa, Tex. Air cleaner. 2,168,472; Aug. 8.
Cobb, Fannie M., Smyrna, Ga. Baby chair. 2,168,513; Aug. 8.
Cochrane Corporation. (See Rohlin, V. A., and Joos, assignors.)
Cohen, Albert I., Chicago, Ill., now by judicial change of name Albert I. Kegan. Dry-sealing container. 2,168,873; Aug. 8.
Colbeth, Ivor M., East Orange, assignor to The Baker Castor Oil Company, Bayonne, N. J. Fluid composition. 2,168,325; Aug. 8.
Cole, Harry E., assignor to J. T. Johnson, Akron, Ohio. Folding box. 2,169,065; Aug. 8.
Coleman, Alfred M., C. C. Bater, and G. A. Lee, London, England. Machine for opening envelopes. 2,168,394; Aug. 8.
Coleman Lamp and Stove Company. (See Olds, Ambrose D., assignor.)
Collier-Keyworth Company. (See Sheldrick, Henry W., assignor.)
Collins, Arthur A., Cedar Rapids, Iowa. Automatic tuning system and apparatus. 2,168,326; Aug. 8.
Colt's Patent Fire Arms Manufacturing Company. (See Christensen, Paul M., assignor.)
Colt's Patent Fire Arms Manufacturing Company. (See Sachs, Joseph, assignor.)
Colt's Patent Fire Arms Manufacturing Company. (See Swartz, William L., assignor.)
Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlman. (See Petitcolas, Pierre, assignor.)
Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz. (See Barthelemy, René, assignor.)
Comstock, George F., Niagara Falls, assignor to The Titanium Alloy Manufacturing Company, New York, N. Y. Chromium-titanium-silicon alloy. 2,169,193; Aug. 8.
Condon, Robert S., Rutland, Vt. Fluid packing. 2,168,818; Aug. 8.
Conrad, Oscar G. (See Bosworth, J. H., and Conrad.)
Continental Can Company. (See O'Brien, Frank J., assignor.)
Continental Can Company. (See O'Brien, F. J., and Punte, assignors.)
Continental Can Company. (See O'Brien, F. J., and Jakob, assignors.)
Cook, Leo J., assignor, by mesne assignments, to Industrial Patents Corporation, Chicago, Ill. Animal-carcass tongue protector. 2,168,731; Aug. 8.
Corn Products Refining Company. (See Horesi, Anthony C., assignor.)
Corson, Fred L., Rochester, N. H., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for taping shoe parts. 2,168,471; Aug. 8.
Cottrell, C. B., & Sons Company. (See Evers, Arthur J., assignor.)
Cowlig, William T. (See Scott, W. J., and Cowlig.)
Cowles, Henry C., Jr., and A. B. Hersberger, assignors to The Atlantic Refining Company, Philadelphia, Pa. Revivification of spent adsorbents. 2,168,327; Aug. 8.
Coy, Dorhl H., Jackson, Ohio. Motor cooling system. 2,169,121; Aug. 8.
Crafts, Walter. (See Critchett, J. H., and Crafts.)
Craig, Palmer H., Bethlehem, Pa., assignor to Invex Corporation. Voltage regulator. 2,168,952; Aug. 8.
Crane, Myrick. (See Hurst, E., and Crane.)
Crew, Joshua A., assignor to The Ayers Mineral Company, Zanesville, Ohio. Treating sands and other granular materials. 2,169,122; Aug. 8.
Critchett, James H., Douglaston, and W. Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company. Treating molten iron and steel with addition agents. 2,168,561; Aug. 8.
Crowe Name Plate & Manufacturing Co. (See Maher, William A., assignor.)
Crowell, Erd V. (See Gilstrap, F. M., and Baurmann, assignors.)
Crown Can Company. (See Ayers, S. H., and Lang, assignors.)
Crumrine, Chester W., assignor to Eastman Kodak Company, Rochester, N. Y. View finder for folding cameras. 2,168,977; Aug. 8.
Cunningham, George L., Niagara Falls, assignor to The Mathieson Alkali Works, Inc., New York, N. Y. Preparation of sodium chlorate and sodium chlorite and the separation thereof. 2,169,066; Aug. 8.
Cutler-Hammer, Inc. (See Defandorf, J. L., and Hodgson, assignors.)
Cutler-Hammer, Inc. (See Hunter, R. B., and Mekelburg, assignors.)
Cutler-Hammer, Inc. (See Krieger, Alvin W., assignor.)
Cutting, Lewis H., San Diego, Calif. Switch for a fluid operated device. 2,168,473; Aug. 8.
Dalton, Frederick C., assignor of one-fourth to W. H. Darby, Salem, and one-fourth to E. R. Dalton, Portland, Oreg. Permanent expander for split-skirt pistons. 2,168,601; Aug. 8.
Dalton, E. R., et al. (See Dalton, Frederick C., assignor.)
Daly, George F., Binghamton, and A. H. Dickinson, Bronxville, assignors, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Record controlled machine with improved serial number controls. 2,168,763; Aug. 8.
Damkroger, Harold A., assignor to General Metalware Company, Minneapolis, Minn. Funnel construction. 2,168,395; Aug. 8.
Daniel, Karl, Cologne-Sulz, assignor to Tefi-Apparatebau Dr. Daniel K.-G., Cologne, Germany. Sound recording and reproducing apparatus. 2,168,792; Aug. 8.
Darby, W. H., et al. (See Dalton, Frederick C., assignor.)
Darrow, Burgess, Akron, Ohio. Safety tube. 2,168,514; Aug. 8.
Dartmouth College, Trustees of. (See Ames, Adelbert, Jr., assignor.)
Dausch, Erwin, assignor to Maybach-Motorenbau Gesellschaft mit beschrankter Haftung, Friedrichshafen-on-the-Bodensee, Germany. Control device for change-speed gears. 2,168,667; Aug. 8.
Davenport Machine Tool Co. (See Davenport, William S., assignor.)
Davenport, William S., assignor to Davenport Machine Tool Co., Inc., Rochester, N. Y. Clutch mechanism. 2,169,089; Aug. 8.
Davidson, Andrew J., Jr., Detroit, Mich. Injector nozzle. 2,168,668; Aug. 8.
Davidson, Glenn, Aurora, Ill. Cigarette mouthpiece. 2,168,474; Aug. 8.
Davies, Stanley B., assignor to Royer Foundry and Machine Co., Kingston, Pa. Apparatus for treating and blending molder's sand. 2,168,515; Aug. 8.
Davis, Clyde O., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Inorganic nitrate explosive. 2,168,562; Aug. 8.
Davis, Clyde O., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Nitrostarch explosive. 2,168,563; Aug. 8.

Davis, Ernest W., Oak Park, assignor to Stewart-Warner Corporation, Chicago, Ill. Lubricating apparatus. 2,168,396; Aug. 8.
Dawihl, Walther, Berlin-Kohlhasenbruck, and K. Schröter, Berlin, Germany, assignors to General Electric Company. Sintered hard metal alloy. 2,169,090; Aug. 8.
Dawson, John W., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Power control system. 2,169,023; Aug. 8.
Day, Leon E., Long Beach, Calif., assignor to Regan Forge & Engineering Company. Blow-out preventer. 2,168,764; Aug. 8.
De Beukelaer, Frank L. (See Newton, R. C., and De Beukelaer.)
Deere & Company. (See Peterson, Julius, assignor.)
Defandorf, John L., Whitefish Bay, and H. E. Hodgson, Wauwatosa, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Circuit commutating device. 2,169,039; Aug. 8.
De Giers, Clarence A., assignor to The Liquidometer Corporation, Long Island City, N. Y. Temperature compensator. 2,168,397; Aug. 8.
Dennison Manufacturing Company. (See Asnes, Benjamin, assignor.)
De Reamer, Frank C., Bridgeport, Conn., assignor to General Electric Company. Lamp socket. 2,169,091; Aug. 8.
Detroit Lubricator Company. (See Dillman, E. J., and Wile, assignors.)
Detroit Lubricator Company. (See Hann, A. G., and Russel, assignors.)
Detroit Harvester Company. (See Kost, Harold W., assignor.)
Detroit Lubricator Company. (See Wile, Daniel D., assignor.)
De Vries, Abraham, St. Anne, Ill. Bulb digging machine. 2,168,966; Aug. 8.
Dexter Folder Company. (See Cernak, Paul, assignor.)
Dickinson, Arthur H. (See Daly, G. F., and Dickinson.)
Diehl, Walter S., U. S. Navy. Deicing means for airplanes. 2,168,328; Aug. 8.
Dietrich, Herbert, Meinersdorf I. E., Germany. Separately working heel portions onto stockings. 2,168,398; Aug. 8.
Dillman, Earnest J., and D. D. Wile, assignors to Detroit Lubricator Company, Detroit, Mich. Control device. 2,168,564; Aug. 8.
Distillation Products, Inc. (See Baxter, James G., assignor.)
Distillation Products, Inc. (See Hickman, K. C. D., and Tischer, assignors.)
Ditto, Incorporated. (See Marchev, Alfred, assignor.)
Dobbin, Jay H., Jr., Burlingame, Calif. Graph construction. 2,168,793; Aug. 8.
Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,168,516; Aug. 8.
Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,168,517; Aug. 8.
Dobson, William A., Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,168,518; Aug. 8.
Döhle, Hinrich, Berlin-Haselhorst, and H. Langner, Berlin-Steglitz, assignors to Telephon-Apparat Fabrik E. Zwietusch and Company, Charlottenburg, Berlin, Germany. Telephone pay station. 2,168,864; Aug. 8.
Dolbear, Benjamin L., Belmont, Mass., assignor to Radio Corporation of America. Loop antenna. 2,169,040; Aug. 8.
Dole, Robert M., Portland, Maine. Antiskid device for automobiles. 2,168,440; Aug. 8.
Dons, Eddie M. (See Mapes, D. B., and Dons.)
Doran, John H., Scotia, N. Y., assignor to General Electric Company. Turbine-casing joint. 2,169,092; Aug. 8.
Dorsey, Albert, Martins Ferry, Ohio. Attaching device for miner's lamps. 2,169,067; Aug. 8.
Doty, Charles R., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Teletypewriter. 2,168,441; Aug. 8.
Dow, Dewey M., assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio. Vacuum cleaner. 2,168,899; Aug. 8.
Dow, Jennings B., Oakcrest, Alexandria, Va. Oscillator system. 2,168,924; Aug. 8.
Dowd, Charles H., South Orange, assignor to Metal Textile Corporation, West Orange, N. J. Headwear. 2,168,765; Aug. 8.
Dreshfield, Arthur C., assignor to Hercules Powder Company, Wilmington, Del. Dry size. 2,168,399; Aug. 8.
Drummond, Robert S., Detroit, Mich. Gear-cutting machine. 2,168,932; Aug. 8.
Du Brul, Clarence J., Cincinnati, Ohio. Machine for assorting cylindrical articles by diameter. 2,168,519; Aug. 8.
Dubsky, Arthur, Vienna, Austria. Friction-wheel pyrophoric lighter. 2,168,732; Aug. 8.
Dufour, Léon, Geneva, Switzerland. Motor cultivating machine. 2,168,733; Aug. 8.
Dugaw, Eugene, Tacoma, Wash. Patch-making tool. 2,168,766; Aug. 8.
Duncan, Justin R., Collingswood, N. J., assignor to Philco Radio & Television Corporation, Philadelphia, Pa. Cathode ray deflecting apparatus. 2,168,978; Aug. 8.
Dunlop Rubber Company. (See Smith, H., and Taylor, assignors.)
Dunn, Carl L., assignor to The Trion Company, Trion, Ga. Glove manufacture. 2,168,819; Aug. 8.
Du Pont, E. I., de Nemours & Company. (See Davis, Clyde O., assignor.)
Du Pont, E. I., de Nemours & Company. (See Fields, C. M., and Wilkens, assignors.)
Du Pont, E. I., de Nemours & Company. (See Heckert, Winfield W., assignor.)
Du Pont, E. I., de Nemours & Company. (See Izard, Emmette F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Lee, H. R., and Klein, assignors.)
Du Pont, E. I., de Nemours & Company. (See Siegel, Alfred, assignor.)
Du Pont, E. I., de Nemours & Company. (See Thomas, Raymond E., assignor.)
Du Pont, E. I., de Nemours & Company. (See Uhler, Frank G., assignor.)
Durham Duplex Razor Company. (See Patterson, Morehend, assignor.)
Duriron Company, The. (See Jacobsen, Oystein, assignor.)
Dziedzic, Nicholas J., assignor to Industrial Patents Corporation, Chicago, Ill. Carcass tongue protector. 2,168,702; Aug. 8.
Dziedzic, Nicholas J., and F. B. Bratek, assignors to Industrial Patents Corporation, Chicago, Ill. Skinning knife. 2,168,703; Aug. 8.
Earnshaw, Spencer A., Los Angeles, Calif. Plastering apparatus. 2,168,329; Aug. 8.
Eastern Malleable Iron Company, The. (See Reynolds, Charles F., assignor.)
Eastman Kodak Company. (See Babcock, D. A., and Van Derhoef, assignors.)
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See Carver, Emmett K., assignor.)
Eastman Kodak Company. (See Christie, John, assignor.)
Eastman Kodak Company. (See Crumrine, Chester W., assignor.)
Eastman Kodak Company. (See Hopkins, R. S., and Wangerin, assignors.)
Eastman Kodak Company. (See Hornung, Elias J., assignor.)
Eastman Kodak Company. (See Hultquist, Bernard A., assignor.)
Eastman Kodak Company. (See Kelley, James D., assignor.)
Eastman Kodak Company. (See Lane, G. T., and Butterfield, assignors.)
Eastman Kodak Company. (See Lankes, L. R., and Nadeau, assignors.)
Eastman Kodak Company. (See Lindenberg, Wilhelm, assignor.)
Eastman Kodak Company. (See Mihalyi, Joseph, assignor.)
Eastman Kodak Company. (See Murray, Alexander, assignor.)
Eastman Kodak Company. (See Nadeau, Gale F., assignor.)
Eastman Kodak Company. (See Nagel, August, assignor.)
Eastman Kodak Company. (See Seymour, Merrill W., assignor.)
Eastman Kodak Company. (See Teague, W. D., and Young, assignors.)
Eastman Kodak Company. (See Wittel, Otto, assignor.)
Eastman Kodak Company. (See Wengel, Raymond W., assignor.)
Easy Washing Machine Corporation. (See Scheele, Charles C., assignor.)
Eaton, Burdick H., Los Angeles, Calif. Nonresonant car wheel. 2,168,900; Aug. 8.
Eclipse Aviation Corporation. (See Allen, J. W., and Grayhrook, assignor.)
Economy Engineering Co. Inc. (See Saal, G. F., and Schmitt, assignors.)
Edgar, David. (See Hyde, H. W., and Edgar.)
Edstrom, Willard H., St. Paul, Minn. Roller skate. 2,168,820; Aug. 8.
Edwards and Company. (See Miller, Christian, assignor.)
Edwards, E. E. (See Wagers, Beverly T., assignor.)
Edwards, Herbert C., Massillon, assignor to The Timken Roller Bearing Company, Canton, Ohio. Fuel injector. 2,168,839; Aug. 8.
Edwards, Martin A., Schenectady, N. Y., assignor to General Electric Company. Electrical control system. 2,169,093; Aug. 8.
Ehrhardt, Gustav. (See Böckmuhl, M., and Ehrhardt.)
Eisenmann Magneto Corporation. (See Tabb, Warner T., assignor.)
Elberty, Robert S., Jr., Wayneshoro, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulation. 2,169,024; Aug. 8.
Electric & Musical Industries Limited. (See Barbour, Kenneth H., assignor.)
Electro Metallurgical Company. (See Critchett, J. H., and Crafts, assignors.)
Elliott, Frank R., assignor to The F. E. Myers and Bro. Company, Ashland Ohio. Traction sprayer. 2,168,821; Aug. 8.
Ellsworth, Amos D., Plainview, Tex. Automatic diving toy. 2,168,767; Aug. 8.
Elmes, Charles F., Engineering Works. (See Sheppard, Joseph R., assignor.)

Emerson Optical & Mfg. Co. Ltd., The. (See Whitwell, Arthur, assignor.)
Erdmann, Georg, Berlin, Germany. Handle for hand grenades. 2,168,979; Aug. 8.
Erickson, John A., Jackson, Mich. Corn sheller. 2,168,617; Aug. 8.
Ernst, Walter, Mount Gilead, Ohio, assignor, by mesne assignments, to The Hydraulic Press Corporation, Inc., Wilmington, Del. Arrangement for driving auxiliary pilot pumps and slippage pumps. 2,168,669; Aug. 8.
Esterbrook Steel Pen Manufacturing Company, The. (See Ashmore, Leon H., assignor.)
Evans, James C., Detroit, assignor, by mesne assignments, to King-Seeley Corporation, Ann Arbor, Mich. Air-cleaner. 2,168,670; Aug. 8.
Evers, Arthur J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Separating blanks from sheet material. 2,168,400; Aug. 8.
Evers, Arthur J., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Apparatus for separating blanks from sheet material. 2,168,401; Aug. 8.
Ex Lax, Inc. (See Hubacher, Max, assignor.)
Farnsworth, Philo T., San Francisco, Calif., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del. Television method. 2,168,768; Aug. 8.
Farnsworth Television & Radio Corporation. (See Farnsworth, Philo T., assignor.)
Farr, Dexter, Ogden, Utah. Edible product. 2,168,980; Aug. 8.
Fellows Gear Shaper Company, The. (See Miller, Edward W., assignor.)
Ferris, Seymour W., Aldan, assignor to The Atlantic Refining Company, Philadelphia, Pa. Purification of waxes. 2,168,330; Aug. 8.
Feshbach, David, Bronx, N. Y. Nonrub fur coat edge protector. 2,168,618; Aug. 8.
Fields, Charles M., Arlington, and G. A. Wilkens, Ridgefield, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cast resin with integral sheen. 2,168,331; Aug. 8.
Fink, Elmer C., Chadwick, Ill. Closure for collapsible tubes. 2,168,822; Aug. 8.
Finley, Sam E., et al. (See Havis, Edward H., assignor.)
Finn, Sidney J., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for pressing soles on shoe bottoms. 2,168,475; Aug. 8.
Fischer, Albert C., Chicago, Ill. Seed planting, seed inoculation, and fertilizer. 2,168,332; Aug. 8.
Fischer, Hermann, Thalwil, Zurich, Switzerland. Device for binding books and so forth. 2,168,865; Aug. 1.
Fish, Lawrence, assignor of one-half to H. Millberg, Minneapolis, Minn. Service stall. 2,169,183; Aug. 8.
Fisher, Earl L., Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Protector. 2,168,769; Aug. 8.
Fitch, Clyde J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Signal transmitting means. 2,168,442; Aug. 8.
Fitch, Clyde J. (See Schneider, K. R., and Fitch.)
Fitz Gerald, Alan S., Wynnewood, Pa. Pulsating electrical control system. 2,168,402; Aug. 8.
Flood, William E., and G. B. Howells, Metuchen, N. J., assignors to Catalin Corporation of America. Phenolic resin molding composition. 2,168,981; Aug. 8.
Foote, Thomas W., Cleveland, Ohio. Chair construction. 2,169,139; Aug. 8.
Forbes, Allan D., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Producing corrugated cases. 2,169,025; Aug. 8.
Ford Instrument Company. (See Newell, William H., assignor.)
Forshey, Thomas H., Monrovia, Calif. Metal cutting and forming machine. 2,168,704; Aug. 8.
Fossa, Joseph, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Driving and stopping mechanism. 2,169,094; Aug. 8.
Francisco, Charles H. and W., and L. Brown, San Francisco, Calif. Nasal inhaler. 2,168,705; Aug. 8.
Francisco, William. (See Francisco, Charles H. and W., and Brown.)
Freeman, William S., Leeds, England. Stopper for bottles, jars, and similar containers. 2,168,734; Aug. 8.
Fregeau, Frank E., assignor to Northern Cold Storage and Warehouse Company, Duluth, Minn. Rack for freezing fish. 2,168,520; Aug. 8.
French, Alfred W., Chicago, Ill. Grading and excavating machine. 2,169,184; Aug. 8.
Frey, Henry. (See Johnson, J. E., and Frey.)
Fulke, Frank L., assignor to Frank Prox Company, Terre Haute, Ind. Mining chain cutter. 2,168,794; Aug. 8.
Galusha, Albert L., Caldwell, N. J. Explosion relief means. 2,169,123; Aug. 8.
Gammeter, John R., Akron, Ohio, assignor to United States Rubber Company, New York, N. Y. Pneumatic tire. 2,169,041; Aug. 8.
Gardner Machine Company. (See Hall, Donald R., assignor.)
Garlington, William M., Kansas City, Kans. Safety lamp. 2,168,671; Aug. 8.
Gebrüder Strasser. (See Strasser, Max, assignor.)
Gehl, John, Denmark, Wis. Snow-removing device. 2,168,866; Aug. 8.
Geiger, Max, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Sawtooth wave generator. 2,168,403; Aug. 8.
General Aniline Works, Inc. (See Kracker, H., and Schmid, assignors.)
General Aniline Works, Inc. (See Krzikalla, H., and Limbacher, assignors.)
General Aniline Works, Inc. (See Nieman, G., and Kollek, assignors.)
General Aniline Works, Inc. (See Zerwek, W., and Heinrich, assignors.)
General Electric Company. (See Atwood, Winfield A., assignor.)
General Electric Company. (See Bennett, Raph S., assignor.)
General Electric Company. (See Dawihl, W., and Schröter, assignors.)
General Electric Company. (See De Reamer, Frank C., assignor.)
General Electric Company. (See Doran, John H., assignor.)
General Electric Company. (See Edwards, Martin A., assignor.)
General Electric Company. (See Hall, R. W., and Smith, assignors.)
General Electric Company. (See Howe, Goodwin H., assignor.)
General Electric Company. (See Ketterson, Willis I., assignor.)
General Electric Company. (See Lange, Carl W., assignor.)
General Electric Company. (See La Pierre, Cramer W., assignor.)
General Electric Company. (See Lincks, George F., assignor.)
General Electric Company. (See Meybauer, Gustav, assignor.)
General Electric Company. (See Müller, Gustav W., assignor.)
General Electric Company. (See Rugg, Edward H., assignor.)
General Electric Company. (See Scott, W. J., and Cowhig, assignors.)
General Electric Company. (See Steenstrup, Christian, assignor.)
General Electric Company. (See Thompson, Harris A., assignor.)
General Electric Company. (See Wardwell, George W., Jr., assignor.)
General Metalware Company. (See Damkroger, Harold A., assignor.)
General Motors Corporation. (See Brouwer, Rodger D., assignor.)
General Motors Corporation. (See Jacobs, James W., assignor.)
General Motors Corporation. (See Kucher, Andrew A., assignor.)
General Motors Corporation. (See Miner, James H., assignor.)
General Motors Corporation. (See Perrine, Lester E., assignor.)
General Motors Corporation. (See Pierce, Frank R., assignor.)
General Motors Corporation. (See Schweller, Edward F., assignor.)
General Motors Corporation. (See Spicacci, Attilio R., assignor.)
General Motors Corporation. (See Wilkerson, Daniel C., assignor.)
General Time Instruments Corporation. (See Richardson, Clyde S., assignor.)
George, Edwin S., Bloomfield Hills, and H. L. Blydenburgh, Highland Park, assignors to The Moto-Mower Company, Detroit, Mich. Lawn mower. 2,168,706; Aug. 8.
George, Henry, III, Wilmington, Del., assignor to Takamine Ferment Company, New York, N. Y. Method and apparatus for testing the contents of the stomach and other body cavities. 2,168,867; Aug. 8.
Gerne, Robert, Chicago, Ill. Cooler for photomechanical printing plates. 2,169,042; Aug. 8.
Gesellschaft für Drahtlose Telegraphie m. b. H. (See Böhm, O., and Hofer, assignors.)
Gessner, Ernst, Aktiengesellschaft. (See Reich, Erich, assignor.)
Getaz, James L., Maryville, Tenn. Plain knit ornamented fabric. 2,168,868; Aug. 8.
Getaz, James L., Maryville, Tenn. Knitting machine. 2,168,869; Aug. 8.
Getaz, James L., Maryville, Tenn., assignor to Interwoven Stocking Company, New Brunswick, N. J. Fabric take-up drive for flat knitting machines. 2,169,140; Aug. 8.
Gewerkschaft Keramchemie-Beggarten et al. (See Bentz, E., and Jaenicke, assignors.)
Geyer, William O., and C. A. Weller, Bloomfield, N. J.; said Weller assignor to said Geyer. Chemical apparatus. 2,169,194; Aug. 8.
Giardino, Joachim, West New York, N. J. Covered joint piston ring. 2,168,901; Aug. 8.
Gibbs, John C., Brooklyn, assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y. Closure cap and making. 2,168,565; Aug. 8.
Gibbs, Ralph F. (See Sawyer, E. W., and Gibbs.)
Gilchrist, Ralph E. (See Haldeman, Albert A., assignor.)

Gille, Willis H., St. Paul, assignor to Minneapolis Honeywell Regulator Company, Minneapolis, Minn. Relay. 2,169,141; Aug. 8.
Gillet, Fritz, Mannheim, and F. Winkler, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Purification of gases. 2,168,933; Aug. 8.
Gilpin, Garth G., Riverside, assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill. Side wall for railway cars. 2,168,795; Aug. 8.
Gilstrap, Frank M., Barranca Bermeja, Colombia, and F. W. Baurmann, Buena Park, assignors, by mesne assignments, to E. Y. Crowell, Huntington Park, Calif. Cementing wells. 2,168,735; Aug. 8.
Glidden, Charles C., Highland Park, assignor to E. H. Perkins, Royal Oak, Mich., and H. R. D. Wilson, Baltimore, Md. Linkage mechanism. 2,168,645; Aug. 8.
Globe Hoist Company. (See Musgrave, Claude E., assignor.)
Goehring, Francis R., assignor to H. Belfield Company, Philadelphia, Pa. Bypass valve. 2,169,043; Aug. 8.
Goehring, Francis R., assignor to H. Belfield Company, Philadelphia, Pa. Valve. 2,169,044; Aug. 8.
Goepfrich, Rudolph A., assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,168,646; Aug. 8.
Goldman, Harry, Detroit, Mich. Combined display stand and filing rack. 2,169,095; Aug. 8.
Goldsmith, Alfred N., New York, N. Y. Television system. 2,168,566; Aug. 8.
Gonseth, Jules E., Jr. (See Peterson, S., and Gonseth.)
Goodenough, Ernest F., London, England, assignor to Radio Corporation of America. Thermionic valve circuits. 2,168,870; Aug. 8.
Goodrich, B. F., Company, The. (See Schoenfeld, Frank K., assignor.)
Gould, Jay H., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Brake lever safety device. 2,168,567; Aug. 8.
Gouldbourn, Joseph, and T. A. Kestell, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Sewing machine. 2,168,568; Aug. 8.
Grace, John F., Arlington, assignor to Worthington Pump and Machinery Corporation, Harrison, N. J. Surface condenser. 2,168,902; Aug. 8.
Graham, Bennie M., Tupelo, Miss. Collapsible bed. 2,168,982; Aug. 8.
Grammer, James L., Penn Township, Allegheny County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway switch operating apparatus. 2,168,796; Aug. 8.
Granath, Axel G. (See Christensen, A. C., and Granath.)
Grant, John. (See Abegg, Walter A., assignor.)
Grant, Walter A., Elizabeth, assignor, by mesne assignments, to Carrier Corporation, Newark, N. J. Refrigerant distribution. 2,168,404; Aug. 8.
Gray, Frank, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrooptical system. 2,169,179; Aug. 8.
Graybrook, Herbert W. (See Allen, J. W., and Graybrook.)
Greely, Luvan, Sr., South Lebanon, Ohio. Testing device. 2,168,983; Aug. 8.
Greenberg, Charles B., New York, N. Y. Buckle for straps. 2,168,521; Aug. 8.
Greenberg, Otto W., Ocean City, N. J. Electrical amplifier system. 2,169,096; Aug. 8.
Greist Manufacturing Company, The. (See Caldwell, Samuel P., assignor.)
Grimes, David, Beverly, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Construction and manufacture of radio receivers. 2,168,984; Aug. 8.
Groll, Herbert P. A., Berkeley, assignor to Shell Development Company, San Francisco, Calif. Inhibiting carbon formation in metal reaction vessels. 2,168,840; Aug. 8.
Gross, Joseph M. (See Lawry, Rolla, assignor.)
Gulbrandsen, Sverc, assignor to New Process Rayon, Inc., Gloucester, N. J. Preparation of iron free copper solutions. 2,168,985; Aug. 8.
Gulliksen, Finn H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Cutter register control. 2,169,026; Aug. 8.
Gunn, George, Jr., Seattle, Wash. Cleaning machine. 2,168,770; Aug. 8.
Gyro Process Company. (See Schutt, Hermann C., assignor.)
Haas, Jacob R., Chicago, Ill. Tool. 2,168,405; Aug. 8.
Hague, Louis M., Rumson, assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J. Ventilated buff. 2,168,871; Aug. 8.
Hahn, Carl A., Kirkwood, Mo. Amalgamator. 2,168,619; Aug. 8.
Hake, Donald S. (See Kinzie, C. J., and Hake.)
Haldeman, Albert A., Mutual, Okla., assignor of one-half to R. E. Gilchrist, Wichita, Kans. Well drilling apparatus. 2,168,707; Aug. 8.
Hall, Donald R., Beloit, Wis., assignor to Gardner Machine Company, South Beloit, Ill. Control apparatus for grinding machines. 2,168,596; Aug. 8.
Hall, Ralph W., and H. A. Smith, Fort Wayne, Ind., assignors to General Electric Company. Dynamo-electric machine. 2,169,097; Aug. 8.
Hankinson, Henry W., Augusta, Ga. Artificial tooth. 2,168,953; Aug. 8.
Hann, Albert G., and P. S. Russel, assignors to Detroit Lubricator Company, Detroit, Mich. Control device. 2,168,307; Aug. 8.
Hanson-Van Winkle-Munning Company. (See Hague, Louis M., assignor.)
Hardenberg, Jan J., assignor to N. V. Philips' Glocilampenfubrieken, Eindhoven, Netherlands. Recording and reproducing apparatus. 2,169,143; Aug. 8.
Hargrave, William, Hillsboro, Oreg. Automobile signal. 2,168,673; Aug. 8.
Harris, Artie B., Kansas City, Mo. Making cutting blades. 2,168,406; Aug. 8.
Harris, Frank C., Lakewood, assignor to The American Monorail Company, Cleveland, Ohio. Overhead carrier. 2,168,986; Aug. 8.
Harris, Henry H., Champaign, Ill. Heat treating furnace tray. 2,168,333; Aug. 8.
Harris, Henry H., Champaign, Ill. Furnace pot. 2,168,334; Aug. 8.
Hart, Dudley W., and M. F. Behney, Phillipsburg, assignors to Ingersoll-Rand Company, Jersey City, N. J. Mounting for rock drills. 2,168,522; Aug. 8.
Hartanov, Andrew S., assignor to Industrial Patents Corporation, Chicago, Ill. Carcass tongue protector. 2,168,708; Aug. 8.
Hartanov, Andrew S., and C. L. Lohner, assignors to Industrial Patents Corporation, Chicago, Ill. Tongue protector. 2,168,709; Aug. 8.
Hartung, Felix C., Chicago, Ill. Fish lure. 2,168,476; Aug. 8.
Harvey, Robert L. (See La Rue, W. D., and Harvey.)
Haseltine, Stacy B. (See Johnson, G. A., and Haseltine.)
Haskin, Byron C., Beverly Hills, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Composite photography. 2,169,045; Aug. 8.
Haskins, Robert H. and R. H., Jr., Providence, R. I. Food product and making same. 2,168,934; Aug. 8.
Haskins, Robert H., Jr. (See Haskins, Robert H. and R. H., Jr.)
Hassan, Joseph A., assignor of one-half to W. F. McIntyre, Quincy, Mass. Radio-controlled signaling means. 2,168,602; Aug. 8.
Haupt, Walter H. (See Lee, W. M., and Haupt.)
Havis, Edward H., assignor of one-third to S. E. Finley and one-third to R. D. Kneale, Atlanta, Ga. Method of and apparatus for roasting and brewing coffee. 2,168,797; Aug. 8.
Hawkins, Luty, Mount Vernon, Ill. Combined cage and feeder structure for poultry. 2,169,144; Aug. 8.
Hazeltine Corporation. (See Lewis, H. M., and Cawein, assignors.)
Hazeltine Corporation. (See Wheeler, Harold A., assignor.)
Headrick, Lewis B., West Orange, N. J., assignor to Radio Corporation of America. Electron tube. 2,169,046; Aug. 8.
Heckert, Winfield W., Ardentown, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic material and preparing same. 2,168,335; Aug. 8.
Heckert, Winfield W., Ardentown, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and producing same. 2,168,336; Aug. 8.
Heckert, Winfield W., Ardentown, assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and preparing same. 2,168,337; Aug. 8.
Heckert, Winfield W., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and producing same. 2,168,338; Aug. 8.
Heiber, William, & Son. (See Heiber, W. G., and Meng, assignors.)
Heiber, William G., and E. R. Meng, assignors to said W. G. Heiber, doing business as William Heiber & Son, Rochester, N. Y. Shoe clamp. 2,168,935; Aug. 8.
Heidbrink, Jay A. (See Stevens, E. J., and Heidbrink.)
Henricksen, Alfred. (See Lincoln, B. H., and Henricksen.)
Heinrich, Ernst. (See Zerweck, W., and Heinrich.)
Hercules Powder Company. (See Dreshfield, Arthur C., assignor.)
Herman, Frances. (See Herman, Sidney E., assignor.)
Herman, William E. (See Rickenbach, H. C., and Herman.)
Herman, Sidney E., Hollywood, Calif., assignor to F. Herman. Garment hanger. 2,168,647; Aug. 8.
Hermann, Hans. (See Bockmühl, M., and Hermann.)
Herold, Walter F., assignor to The Bassick Company, Bridgeport, Conn. Height adjustment support for chair backs. 2,168,620; Aug. 8.
Herold, Walter F., assignor to The Bassick Company, Bridgeport, Conn. Cushion slide for furniture. 2,169,145; Aug. 8.
Herrlinger, Richard. (See Jaeger, A. O., and Herrlinger.)
Hersberger, Arthur B. (See Cowles, H. C., Jr., and Hersberger.)
Hewes, Laurence I., San Francisco, and W. Bertwell, San Mateo, Calif. Joint in concrete slabs or pavements. 2,168,925; Aug. 8.
Heyl, George E., Mill Hill, London, England. Treating seeds, bulbs, tubers, and roots. 2,168,523; Aug. 8.
Hickman, Kenneth C. D., and A. O. Tischer, assignors, by mesne assignments, to Distillation Products, Inc., Rochester, N. Y. Production of vitamin A esters. 2,169,195; Aug. 8.

Hill, Charles K., assignor to The Hillwood Manufacturing Company, Cleveland, Ohio. Method of and apparatus for grooving wire. 2,168,340; Aug. 8.

Hillis, David R., Detroit, Mich., assignor to Trabon Engineering Corporation, Cleveland, Ohio. Reversible single-line feeder. 2,168,936; Aug. 8.

Hillis, David R., Detroit, Mich., assignor to Trabon Engineering Corporation, Cleveland, Ohio. Unitary flow reversing pump and control valve. 2,168,937; Aug. 8.

Hillwood Manufacturing Company, The. (See Hill, Charles K., assignor.)

Himel, Curtis J., New Orleans, La. Ant trap. 2,168,339; Aug. 8.

Hinchliff, Edward C., assignor to Burson Knitting Company, Rockford, Ill. Stocking. 2,169,203; Aug. 8.

Hinchliff, Edward C., assignor to Burson Knitting Company, Rockford, Ill. Stocking. 2,169,204; Aug. 8.

Hirsch, Samuel, assignor to A. Mutscheller, New York, N. Y. High voltage and high vacuum discharge device. 2,168,872; Aug. 8.

Hirschman, W. F., Co. (See Hirschman, William F., assignor.)

Hirschman, William F., assignor to W. F. Hirschman Co., Inc., Buffalo, N. Y. Structural curb. 2,168,798; Aug. 8.

Hitchcock, Albert E. (See Zimmerman, P. W., and Hitchcock.)

Hitt, Thomas G. (See Bunt, A. P., and Hitt.)

Hodgins, Theodore S., Detroit, and A. G. Hovey, Pleasant Ridge, Mich. Water-soluble urea-formaldehyde-ethylene glycol condensation products and producing the same. 2,168,477; Aug. 8.

Hodgson, Howard E. (See Defandorf, J. L., and Hodgson.)

Hofer, Rudolf. (See Böhm, O., and Hofer.)

Holland, Asburl L., Washington, D. C. Needle threader. 2,169,124; Aug. 8.

Holland, Louis E., Kansas City, Mo. Apparatus for etching plates. 2,168,407; Aug. 8.

Holmes, Harlan B., and H. F. Blood, Portland, Oreg., and M. C. Bell, Seattle, Wash., assignors to United States of America, as represented by Secretary of War. Fishway. 2,168,341; Aug. 8.

Hopkins, Roy S., and E. O. Wangerin, assignors to Eastman Kodak Company, Rochester, N. Y. Film feeding mechanism. 2,168,987; Aug. 8.

Horesi, Anthony C., Berwyn, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Treating starch. 2,168,524; Aug. 8.

Horn, Harry J., assignor to Motor Wheel Corporation, Lansing, Mich. Vehicle wheel. 2,169,047; Aug. 8.

Hornung, Elias J., assignor to Eastman Kodak Company, Rochester, N. Y. Camera-bellows-forming machine. 2,169,205; Aug. 8.

Horrocks, Walter E., Lakewood, Ohio. Self-contained thrust bearing. 2,168,342; Aug. 8.

Houdaille-Hershey Corporation. (See Gould, Jay H., assignor.)

Houde Engineering Corporation. (See Perkins, Charles E., assignor.)

Houghton, E. F., & Co. (See Sarvis, Louis, assignor.)

Hovey, Almon G. (See Hodgins, T. S., and Hovey.)

Howard, Stanley R., Milton, assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Labeling machine. 2,168,525; Aug. 8.

Howarth, Harry A. S., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Lubricating means for thrust bearings. 2,168,343; Aug. 8.

Howarth, Harry A. S., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. Lubricating means for thrust bearings. 2,168,344; Aug. 8.

Howe, Andrew F., University City, and R. A. Bagnell, La Due, Mo. Gasoline meter dial. 2,169,048; Aug. 8.

Howe, Goodwin H., Scotia, N. Y., assignor to General Electric Company. Soft soldering alloys containing aluminum. 2,169,098; Aug. 8.

Howell, Albert S., assignor to The Bell & Howell Company, Chicago, Ill. Intermittent feed device. 2,168,771; Aug. 8.

Howells, George B. (See Flood, W. E., and Howells.)

Hoy, Harvey H., Fillmore, Calif. Dry shaver. 2,168,823; Aug. 8.

Hubacher, Max, Valley Stream, N. Y., assignor to Ex Lax, Inc. Producing phenolphthalein. 2,168,346; Aug. 8.

Huff, Van E., Miami, Fla. Tropical louver. 2,168,347; Aug. 8.

Huffman, Samuel A., assignor to Miller Printing Machinery Co., Pittsburgh, Pa. Work-holding vise. 2,168,772; Aug. 8.

Hultquist, Bernard A., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Adjustable tripod head. 2,168,988; Aug. 8.

Hummel, Fred E. (See Parr, Webster A.)

Humphner, Ferdinand W., Oak Park, assignor to Mid-States Gummed Paper Co., Chicago, Ill. Method and means for unremovably securing stamp transfers and the like. 2,168,989; Aug. 8.

Hungerford, Daniel C., Chalfont, Pa., assignor to Star Expansion Bolt Company, New York, N. Y. Wedge for concrete tie rods. 2,168,991; Aug. 8.

Hungerford, Daniel C., Chalfont, Pa., assignor, by mesne assignments, to Star Expansion Bolt Company, New York, N. Y. Form tie. 2,168,990; Aug. 8.

Hunna, Emerich, et al., executors. (See Lilienfeld, Leon.)

Hunter, Richard B., Shorewood, and H. L. Mekelburg, assignors to Cutler-Hammer, Inc., Milwaukee, Wis. Drum controller. 2,169,049; Aug. 8.

Hurlburt, Wilbur F., East Orange, N. J., assignor to Automatic Switch Co., New York, N. Y. Solenoid valve. 2,168,774; Aug. 8.

Hurst, Edward, and M. Crane, assignors to United Cotton Products Company, Fall River, Mass. Making web material. 2,168,775; Aug. 8.

Hyde, Henry W., Dedham, and D. Edgar, Lynn, assignors to The Tanning Process Company, Boston, Mass. Drying hides and skins. 2,168,478; Aug. 8.

Hydraulic Press Corporation, The. (See Ernst, Walter, assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Giller, F., and Winkler, assignors.)

I. G. Farbenindustrie Aktiengesellschaft. (See Nuesslein, J., von Finck, and Stürk, assignors.)

Illinois Powder Manufacturing Co. (See Manning, Bruce W., assignor.)

Industrial Patents Corporation. (See Bursick, Edward R., assignor.)

Industrial Patents Corporation. (See Cook, Leo J., assignor.)

Industrial Patents Corporation. (See Dziedzic, Nicholas J., assignor.)

Industrial Patents Corporation. (See Dziedzic, N. J., and Bratek, assignors.)

Industrial Patents Corporation. (See Hartanov, Andrew S., assignor.)

Industrial Patents Corporation. (See Hartanov, A. S., and Lohner, assignor.)

Industrial Patents Corporation. (See Lohner, C. L., and McKee, assignors.)

Industrial Patents Corporation. (See McKee, Harry H., assignor.)

Industrial Patents Corporation. (See Nelson, R. C., and De Beukelaer, assignors.)

Industrial Patents Corporation. (See Reece, Harry A., assignor.)

Industrial Patents Corporation. (See Walter, Charles T., assignor.)

Ingersoll-Rand Company. (See Hart, D. W., and Behney, assignors.)

Ingersoll-Rand Company. (See Slater, Fred M., assignor.)

Insley Manufacturing Corporation. (See Rasmussen, Alvin C., assignor.)

International Business Machines Corporation. (See Daly, G. F., and Dickinson, assignors.)

International Business Machines Corporation. (See Doty, Charles R., assignor.)

International Business Machines Corporation. (See Fitch, Clyde J., assignor.)

International Business Machines Corporation. (See Johnson, Reynold B., assignor.)

International Business Machines Corporation. (See Lake, Clair D., assignor.)

International Business Machines Corporation. (See Paris, Robert E., assignor.)

International Business Machines Corporation. (See Schneider, K. R., and Fitch, assignors.)

International Business Machines Corporation. (See Von Pein, Edward J., assignor.)

International Business Machines Corporation. (See Watson, Glenn W., assignor.)

International Engineering Corporation. (See Nordgren, Arnold W., assignor.)

International Paper Company. (See Charlton, Edgar A., assignor.)

Interwoven Stocking Company. (See Getaz, James L., assignor.)

Invex Corporation. (See Craig, Palmer H., assignor.)

Ireland, Murray, St. Paul, Minn., assignor to McGraw Electric Company, Chicago, Ill. Unitary thermally responsive timing mechanism. 2,168,526; Aug. 8.

Irving, John S., Birmingham, England, assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,168,648; Aug. 8.

Iverson, Cato, assignor to National Rubber Machinery Company, Akron, Ohio. Vulcanizing mold and other presses. 2,169,146; Aug. 8.

Iversen, Lorenz, assignor to Mesta Machine Company, Pittsburgh, Pa. Annealing plant. 2,168,527; Aug. 8.

Izard, Emmette F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic composition and preparing same. 2,168,348; Aug. 8.

Jacob, Andrew. (See Jacob, Mike and A., and Maravalli.)

Jacob, Mike and A., and J. Maravalli, Dunlo, Pa. Line Tightener. 2,168,954; Aug. 8.

Jacobs, James W., assignor to General Motors Corporation, Dayton, Ohio. Ice tray. 2,169,180; Aug. 8.

Jacobsen, Oystein, Dayton, Ohio, assignor to The Duriron Company, Inc. Lubricated plug valve. 2,168,903; Aug. 8.

Jacoby, Hans, Finkenkrug, East-Havelland, and H. Panzerbleter, Berlin-Haselhorst, assignors to Siemens and Halske, Aktiengesellschaft, Berlin-Siemensstadt, Germany. Microphone. 2,168,569; Aug. 8.

Jaeger, Alphons O. (See West, H. J., and Jaeger.)

Jaeger, Alphons O., Mount Lebanon, and R. Herrlinger, Bridgeville, Pa., assignors to American Cyanamid & Chemical Corp., New York, N. Y. Unhairing of hides and skins. 2,169,147; Aug. 8.

Jaeger, Alphons O., Greenwich, Conn., and R. Herrlinger, Bridgeville, Pa., assignors to American Cyanamid & Chemical Corporation, New York, N. Y. Unhairing of hides and skins. 2,169,148; Aug. 8.

Jaenicke, Johannes. (See Bentz, E., and Jaenicke.)

Jakob, Oliver G. (See O'Brien, F. J., and Jakob.)

James, Robert F., Mahwah, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Treatment of meat and the product thereof. 2,169,081; Aug. 8.

Jeffrey Manufacturing Company, The. (See Bauroth, Walter J., assignor.)

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jimenez Lopez, César, Mexico D. F., Mexico. Shell type sluice gate. 2,168,825; Aug. 8.

Johanson, Johan A., Stockholm, Sweden. Double-acting wind turbine. 2,169,149; Aug. 8.

Johns-Manville Corporation. (See MacIldowie, John C., assignor.)

Johnson, Clarence, East Cleveland, Ohio. Regulating apparatus. 2,169,150; Aug. 8.

Johnson Engineering & Mfg. Co. (See Johnson, J. E., and Frey, assignors.)

Johnson, George A., Chicago, and S. B. Haseltine, Glen Ellyn, assignors to W. H. Miner, Inc., Chicago, Ill. Friction shock-absorbing mechanism. 2,168,408; Aug. 8.

Johnson, John A., Clinton, Iowa. Invalid bed accessory. 2,168,649; Aug. 8.

Johnson, John A., Woodhaven, N. Y. Assembling receptacle closure caps. 2,168,409; Aug. 8.

Johnson, John E., and H. Frey, assignors to Johnson, Engineering & Mfg. Co., Wilkes-Barre, Pa. Soaking machine. 2,168,479; Aug. 8.

Johnson, John T. (See Cole, Harry E., assignor.)

Johnson, Jonas F., assignor to J. A. Anderson, trustee, Chicago, Ill. Leg-supported structure. 2,168,710; Aug. 8.

Johnson, Leonard, Beverly Shores, Ind. Combination wire twister and tightener. 2,168,992; Aug. 8.

Johnson, Reynold B., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Indicating device. 2,168,443; Aug. 8.

Johnson, Stephen, Jr., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Steering mechanism. 2,168,480; Aug. 8.

Johnston, Merton A., Indianapolis, Ind. Sorting and classifying of flat sheets, tallies, cards, or the like. 2,169,050; Aug. 8.

Jollasse, Erik, assignor to Quarzlampen-Gesellschaft m. b. H., Hanau-on-the-Main, Germany. Apparatus for making prints. 2,168,481; Aug. 8.

Jones, Clifton E., Chicago, Ill. String instrument. 2,168,736; Aug. 8.

Jones & Laughlin Steel Corporation. (See McCreary, Alfred D., assignor.)

Jones, Paul S., assignor to Jones & Vining, Inc., Brockton, Mass. Shoe tree. 2,169,151; Aug. 8.

Jones & Vining, Inc. (See Jones, Paul S., assignor.)

Joos, Charles E. (See Rohlin, V. A., and Joos.)

Jordan, A. H. B. (See Babcock, Garrison, assignor.)

Joseph, Alex, Amsterdam, Netherlands. Expanding device for tubular envelopes. 2,168,993; Aug. 8.

Junghans, Helmut, Sulgen, near Schramberg, Germany. Mechanical detonator. 2,168,482; Aug. 8.

Junghans, Helmut, Schramberg-Sulgen, Wurtemberg, Germany. Photographic shutter. 2,168,483; Aug. 8.

Kadenacy, Michel, Paris, France. Exhaust passage of two-stroke internal combustion engines. 2,168,528; Aug. 8.

Kaiser, Otto, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs and making same. 2,169,152; Aug. 8.

Kaiser, Rae, et al. (See Brenner, Robert R., assignor.)

Kaiser, Wilhelm, and H. Balke, Lichtenberg, Berlin, Germany, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio. Train line connector. 2,169,068; Aug. 8.

Kalter, Harold E. (See Linder, A. J., and Kalter.)

Kamborian, Jacob S. (See Movsesian, Edgar, assignor.)

Kantor, James, assignor to The Liquid Carbonic Corporation, Chicago, Ill. Gas filler valve. 2,168,841; Aug. 8.

Karan, John A., Buffalo, N. Y. Shingle. 2,168,955; Aug. 8.

Kaufman, Irving, assignor of one-third to S. Kaufman and one-third to T. W. Bieder, Bronx, N. Y. Pipe union and fitting. 2,169,069; Aug. 8.

Kaufman, Ralph G., New York, N. Y. Smoker's dry-pipe pin. 2,168,410; Aug. 8.

Kaufman, Simon, et al. (See Kaufman, Irving, assignor.)

Kegan, Albert I. (See Cohen, Albert I., assignor.)

Kellar, George D., Jamaica, N. Y. Apparatus to prevent adhesion of type metal to spaces of line-casting machines. 2,168,412; Aug. 8.

Kellar, George D., Jamaica, N. Y. Method and apparatus to prevent adhesion of type metal to spaces of line-casting machines. 2,168,411; Aug. 8.

Kelley, James D., assignor to Eastman Kodak Company, Rochester, N. Y. Camera shutter tester. 2,168,994; Aug. 8.

Kelley-Koett Manufacturing Company, The. (See Lee, W. M., and Haupt, assignors.)

Kellogg, M. W., Co., The. (See Taylor, Hugh S., assignor.)

Kelly, James M., Trafford, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Copper base alloy. 2,169,187; Aug. 8.

Kelly, James M., Trafford, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Copper base alloy. 2,169,188; Aug. 8.

Kelly, James M., Trafford, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Copper base alloy. 2,169,189; Aug. 8.

Kelly, James M., Trafford, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Copper base alloy. 2,169,190; Aug. 8.

Kent, Herbert J., Berkeley, Calif. Automatic fuel pump regulator. 2,168,904; Aug. 8.

Kent-Owens Machine Company. (See Tremblay, Albert F., assignor.)

Kestell, Thomas A. (See Gouldbourn, J., and Kestell.)

Kesteven, Charles E., and J. W. Michaelson, assignors, by mesne assignments, to Miracle Massage Appliances, Inc., Minneapolis, Minn. Massaging device. 2,168,842; Aug. 8.

Ketterson, Willis I., Schenectady, N. Y., assignor to General Electric Company. Mirror clock. 2,169,099; Aug. 8.

Keystone Mfg. Co. (See Marks, Isidore, assignor.)

Kilgore, Lee A., Forest Hills, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge protective system. 2,169,027; Aug. 8.

Kimmel, Hermann. (See Strecker, F., and Kimmel.)

King-Seeley Corporation. (See Evans, James C., assignor.)

Kingsbury, Albert, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa. High speed thrust bearing. 2,168,345; Aug. 8.

Kingsbury Machine Works, Inc. (See Howarth, Harry A. S., assignor.)

Kingsbury Machine Works, Inc. (See Kingsbury, Albert, assignor.)

Kinzie, Charles J., and D. S. Hake, Niagara Falls, assignors to The Titanium Alloy Manufacturing Company, New York, N. Y. Making zirconium oxide. 2,168,603; Aug. 8.

Kissinger, William, Kiel, Wis. Combined beer cooling and dispensing apparatus. 2,169,153; Aug. 8.

Klein, Carl R., Santa Monica, Calif. Fishing reel. 2,168,938; Aug. 8.

Klein, David X. (See Lee, H. R., and Klein.)

Klonowski, Walter F. (See Sleeseman, Robert, assignor.)

Kneale, Robert D., et al. (See Havis, Edward H., assignor.)

Köhl, Hermann, Stolberg, Germany, assignor, by mesne assignments, to P K Drive, Corp., Jersey City, N. J. Change speed gear for power vehicles. 2,168,956; Aug. 8.

Kollek, Leo. (See Niemann, G., and Kollek.)

Konishi, Shozo, Kami-Mura, assignor to Nippon Filmon Kabusiki Kaisya, Tokyo, Japan. Gramophone for playing records of an endless film. 2,168,529; Aug. 8.

Korkosz, Frank D and J. J., Chicopee, Mass. Projection apparatus. 2,168,799; Aug. 8.

Korkosz, John J. (See Korkosz, Frank D and J. J.)

Kost, Harold W., Ferndale, assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich. Fastening device. 2,169,181; Aug. 8.

Kost, Harold W., Birmingham, assignor to Prestol Devices, Inc., Detroit, Mich. Fastener. 2,169,182; Aug. 8.

Kracker, Herbert, and R. Schmid, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Diazoamino compounds soluble in water and preparing them. 2,168,800; Aug. 8.

Kraeft, Herman L., Cleveland Heights, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Cycle fixture. 2,168,929; Aug. 8.

Kraft, Wheaton W., assignor to The Lummus Company, New York, N. Y. Solvent recovery. 2,168,570; Aug. 8.

Krieger, Alvin W., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric switch. 2,168,413; Aug. 8.

Krongold, Saul, Uniontown, Pa. Windshield and window cleaner. 2,169,206; Aug. 8.

Krzikalla, Hans, and W. Limbacher, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Metal containing trisazo dyes. 2,168,571; Aug. 8.

Kucher, Andrew A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,168,367; Aug. 8.

Kuhlman, Henry J., assignor to Kuhlman Manufacturing Company, Waterloo, Iowa. Corn harvester. 2,169,070; Aug. 8.

Kuhlman Manufacturing Company. (See Kuhlman, Henry J., assignor.)

Kürsteiner, Ernst, Kjelsas, near Oslo, Norway. Machine for the winding of the electrical coils on a ring-formed dynamo core. 2,168,957; Aug. 8.

Kyle, Samuel C., San Francisco, Calif., assignor to M. G. Mulvany. Fluid actuated power apparatus. 2,168,711; Aug. 8.

Kyprie, Prodromus M., Detroit, Mich. Method of and means for making dentures. 2,168,530; Aug. 8.

Kyrides, Lucas P., Webster Groves, assignor to Monsanto Chemical Company, St. Louis, Mo. Trichlor methyl aromatic carbinol ethers. 2,168,340; Aug. 8.

Lake, Clair D., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Rate extension punch. 2,168,414; Aug. 8.

Lake, Elsmore D., Oakland, Calif. Producing printing plates. 2,168,444; Aug. 8.

Laminated Metals Corporation. (See Sawyer, E. W., and Gibbs, assignors.)

Landell, Stanford, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Diaphragm construction. 2,168,995; Aug. 8.

Landis, Daniel O., Upper Darby, Pa., assignor to Radio Corporation of America. Pressure roll for sound film apparatus. 2,168,572; Aug. 8.

Lane, Geronld T., and W. Butterfield, assignors to Eastman Kodak Company, Rochester, N. Y. Apparatus for making paper. 2,168,996; Aug. 8.

Lane, Joseph H., Chattanooga, Tenn., and E. W. North; said North assignor to National Lock Co., Rockford, Ill. Combination lock. 2,168,621; Aug. 8.

Lang, Charles W. (See Ayers, S. H., and Lang.)

Lange, Carl W., Erie, Pa., assignor to General Electric Company. Dynamo-electric machine. 2,169,100; Aug. 8.

Langlois, David P., assignor to A. E. Staley Manufacturing Company, Decatur, Ill. Reducing-sugar product. 2,169,051; Aug. 8.

Langner, Heinrich. (See Döhle, H., and Langner.)

Lankes, Leonard R., and G. F. Nadeau, assignors to Eastman Kodak Company, Rochester, N. Y. Liquid-applying pan. 2,168,997; Aug. 8.

Lapham, Edward A., Long Island City, N. Y. Current collector. 2,169,154; Aug. 8.

La Pierre, Cramer W., Schenectady, N. Y., assignor to General Electric Company. Thermocouple wattmeter. 2,169,101; Aug. 8.

Lapsley, Robert, Berrien Springs, assignor to Clark Equipment Company, Buchanan, Mich. Torque converting and transmitting mechanism. 2,168,350; Aug. 8.

Larson, Donald E. (See Wiggins, J. H., and Larson.)

La Rue, William D., Merchantville, and R. L. Harvey, Oaklyn, N. J., assignors to Radio Corporation of America. Adjustable magnetic-core inductor. 2,168,351; Aug. 8.

Laukhuff, Alfred, assignor to Alfa Machine Company, Milwaukee, Wis. Cutting machine. 2,168,415; Aug. 8.

Lavine Gear Company. (See Twyman, B. Wickliffe, assignor.)

Lawatch, Rudolf. (See Skinner, E. C., and Lawatch.)

Lawrence Duck Company. (See Barrell, William A., assignor.)

Lawry, Rolla, Tucson, Ariz., assignor to J. M. Gross, Rockville Centre, Long Island, N. Y. Color-comparing device. 2,168,352; Aug. 8.

Lear, Earl B., Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y. Wagon drill. 2,168,905; Aug. 8.

Leary, Edward J., Chicago, Ill. Lifting device. 2,168,906; Aug. 8.

Lee, George A. (See Coleman, A. M., Bater, and Lee.)

Lee, Harry A., Kansas City, Kans., assignor to F. L. Talge, operating as Rival Manufacturing Company, Kansas City, Mo. Electric broiler. 2,168,604; Aug. 8.

Lee, Henry R., South Milwaukee, and D. X. Klein, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Preparation of dibromoaminoanthraquinone compounds and products obtainable thereby. 2,169,196; Aug. 8.

Lee, William M., Covington, and W. H. Haupt, Ludlow, assignors to The Kelley-Koett Manufacturing Company, Inc., Covington, Ky. X-ray apparatus. 2,168,801; Aug. 8.

Leenhouts, A. Donald. (See Leenhouts, Abram and A. D.)

Leenhouts, Abram and A. D., Holland, Mich. Inhaler. 2,168,573; Aug. 8.

Lefevre, Joseph, Lynn, Mass. Welt sewing attachment. 2,168,776; Aug. 8.

Leippe, Richard M., East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Watt-hour meter. 2,169,028; Aug. 8.

Leitz, E., Inc. (See Lukis, Ernest D., assignor.)

Lemont, Clarence J., assignor to Line Material Company, South Milwaukee, Wis. Pole-snubbing device. 2,169,102; Aug. 8.

Lescher, Edmund. (See Tronnier, A. W., Roeschlein, and Lescher.)

Lesley, Francis E., Cincinnati, Ohio. Laminated mesh roller shade. 2,169,103; Aug. 8.

Leslie, Howard C., Milton, assignor to B R E Manufacturing Co., Hyde Park, Mass. Water-closet seat. 2,168,907; Aug. 8.

Leukhardt, Arthur R., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa. Fluid pressure braking system. 2,168,748; Aug. 8.

Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Material handling mechanism. 2,168,622; Aug. 8.

Levine, Harry, Brooklyn, assignor to American Eyelet Co., Inc., New York, N. Y. Fastener-attaching machine. 2,168,416; Aug. 8.

Levowitz, David. (See van der Meulen, P. A., and Levowitz.)

Lewis, Harold M., Great Neck, and M. Cawein, Manhasset, N. Y., assignors to Hazeltine Corporation. Radio receiver. 2,168,874; Aug. 8.

Lewis Invisible Stitch Machine Company. (See Bowman, Louis G., assignor.)

Lewis Invisible Stitch Machine Company. (See Mueller, Charles W., assignor.)

Lewis, Melville A., Detroit, Mich. Automobile safety bumper. 2,168,908; Aug. 8.

Lichtenstein, Johan, Levallois Perret, France, assignor to Societe Generale des Carburateurs Zenith, Geneva, Switzerland. Throttle controls for internal combustion engines. 2,168,958; Aug. 8.

Lilienfeld, Antonette. (See Lilienfeld, Leon.)

Lilienfeld, Leon, Vienna, Austria; P. Abel, or in case of his inability to act E. Humua, executor, and A. Lilienfeld, sole heir, Vienna, Austria (Germany). Manufacture of cellulose xanthate derivatives and artificial materials therefrom. 2,169,207; Aug. 8.

Limbacher, Walter. (See Krzikalla, H., and Limbacher.)

Lincks, George F., Pittsfield, Mass., assignor to General Electric Company. Protective and maintenance equipment for electric circuit interrupting devices. 2,169,104; Aug. 8.

Lincoln, Bert H., and A. Henricksen, deceased (J. W. Wolfe, administrator de bonis non), Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio. Lubricant. 2,169,155; Aug. 8.

Linde Air Products Company, The. (See Pufahl, H. R., and Bucknam, assignors.)

Lindenberg, Wilhelm, Stuttgart, Germany, assignor to Eastern Kodak Company, Rochester, N. Y. Film winding mechanism for cameras. 2,168,998; Aug. 8.

Linder, Andrew J., and H. E. Kalter, assignors to The Troxel Manufacturing Company, Elyria, Ohio. Bicycle saddle. 2,169,105; Aug. 8.

Lindsey, Ernest E., Los Angeles, Calif. Check valve. 2,169,052; Aug. 8.

Line Material Company. (See Lemont, Clarence J., assignor.)

Line Material Company. (See Schultz, William O., assignor.)

Linebarger, Charles E., assignor to The Chaslyn Company, Chicago, Ill. Hydrometer. 2,168,353; Aug. 8.

Link-Belt Company. (See Olson, G. H., Schoelm, and Allen, assignors.)

Liquid Carbonic Corporation, The. (See Kantor, James, assignor.)

Liquidometer Corporation, The. (See de Giers, Clarence A., assignor.)

Little, Charles H. and C. H., Cleveland Heights, Ohio. Drafting machine. 2,168,940; Aug. 8.

Little, Charles Hubbard. (See Little, Charles H. and C. H.)

Littlefield, Verne D., Beverly Hills, Calif., assignor to Armour and Company, Chicago, Ill. Egg white process. 2,168,926; Aug. 8.

Loane, Clarence M. (See Shoemaker, B. H., and Loane.)

Loane, Clarence M., and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,168,674; Aug. 8.

Lockhart, William A., assignor to Sharon Optical Company, Inc., Geneva, N. Y. Lens grinding and polishing machine. 2,168,843; Aug. 8.

Lockwood Manufacturing Company, The. (See Chandonia, John E., assignor.)

Locomotive Firebox Company. (See Nelson, Arthur W., assignor.)

Loewenbuck, Sebastian, Zurich, Switzerland. Typewriter with type wheel and normal keyboard. 2,168,824; Aug. 8.

Lofgren, Hokan A., Rockford, and V. Celmer, Niles, assignors to Universal Appliance Co., Chicago, Ill. Clothesline reel. 2,168,675; Aug. 8.

Lohner, Carl L., and H. H. McKee, assignors to Industrial Patents Corporation, Chicago, Ill. Tongue protector. 2,168,712; Aug. 8.

Lohner, Carl L. (See Hartanov, A. S., and Lohner.)

Lorentzen, Hans K., Montclair, N. J. Head-bar bracket for Venetian blinds. 2,168,417; Aug. 8.

Losure, Lisander, assignor of one-third to M. F. Smith and one-third to R. A. Bruce, Marion, Ind. Oil and gas separator. 2,169,156; Aug. 8.

Loux, Raymond A., Nashwauk, Minn. Highway signal. 2,168,484; Aug. 8.

Lowe, George E., Indianapolis, Ind. Window shade and curtain support. 2,169,053; Aug. 8.

Lubri-Zol Development Corporation. (See Lincoln, B. H., and Henricksen, assignors.)

Lukis, Ernest D., New York, N. Y., assignor to E. Leitz, Inc. Photographic plate holder. 2,168,418; Aug. 8.

Lulay, Nicholas R., Sublimity, Oreg. Hydraulic brake. 2,168,959; Aug. 8.

Lummus Company, The. (See Kraft, Wheaton W., assignor.)

Lyness, Horatio S., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Method and means for relatively positioning soles and shoes. 2,168,485; Aug. 8.

Lyon, George A., Allenhurst, N. J. Ornamental grille and fender guard. 2,168,354; Aug. 8.

Lyon, George A., Allenhurst, N. J. Making auxiliary impact members. 2,168,355; Aug. 8.

Lyon, George A., Allenhurst, N. J. Snap-on bumper guard. 2,168,356; Aug. 8.

Lyon, George A., Allenhurst, N. J. Auxiliary impact member. 2,168,357; Aug. 8.

Lyon, George A., Allenhurst, N. J. Auxiliary impact member and making the same. 2,168,358; Aug. 8.

MacClain, Albert L. (See Beisel, R. B., and MacClain.)

Macdonald, William F., assignor to Bridgeport Thermostat Company, Inc., Bridgeport, Conn. Thermostatic construction. 2,168,999; Aug. 8.

Macildowie, John C., Nashua, N. H., assignor to Johns-Manville Corporation, New York, N. Y. Article of manufacture. 2,168,445; Aug. 8.

Mackey, Alexander S., Clearview, Ontario, Canada. Device for dispensing ice cream. 2,168,737; Aug. 8.

Magee, James M., et al. (See Carney, Daniel E., assignor.)

Magic Automatic Loom Co. (See Pedrazzo, Emil R., assignor.)

Magnesium Development Corporation. (See Seliger, H., and Breitschneider, assignors.)

Maher, William A., Maywood, assignor to Crowe Name Plate & Manufacturing Co., Chicago, Ill. Glass perforating. 2,168,650; Aug. 8.

Mahoning Mining Company. (See Clemmer, J. B., and Anderson, assignors.)

Mallinckrodt Chemical Works. (See Almutt, Donald B., assignor.)

Maniscalco, Pietro, Toledo, Ohio. Lubricating device. 2,169,106; Aug. 8.

Manning, Bruce W., Grafton, Ill., assignor to Illinois Powder Manufacturing Co., St. Louis, Mo. Low density cellulose materials. 2,168,531; Aug. 8.

Manning, Paul D. V. (See Peebles, D. D., and Manning.)

Maravalli, Joe. (See Jacob, Mike and A., and Maravalli.)

Marchev, Alfred, La Grange, assignor to Ditto Incorporated, Chicago, Ill. Duplicating apparatus. 2,168,486; Aug. 8.

Marks, Isidore, assignor to Keystone Mfg. Co., Boston, Mass. Film guide. 2,168,941; Aug. 8.

Marr, George M., Woodhaven, N. Y. Transmitting and distributing audio current on an amplified loudspeaker system. 2,168,426; Aug. 8.

Marsh, John W., Washington, D. C. Power transmission gear. 2,168,359; Aug. 8.

Martin, Charles H., et al. (See Meinholdt, Charles L., assignor.)

Martin, Fred P., et al. (See Meinholdt, Charles L., assignor.)

Martin, Stoddard B., Lakewood, Ohio. Stock gripping means. 2,169,107; Aug. 8.

Marx, Louis, & Company. (See Smith, Anthony N., assignor.)

Mason, Ralph B., New Kensington, assignor to Aluminum Company of America, Pittsburgh, Pa. Producing etched surfaces on aluminum. 2,168,909; Aug. 8.

Mathieson Alkali Works, Inc., The. (See Cunningham, George L., assignor.)

Maybach Motorenbau Gesellschaft mit beschrankter Haftung. (See Dausch, Erwin, assignor.)

Mapes, Dwight B., and E. M. Dons, assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla. Separating wax-containing materials. 2,168,574; Aug. 8.

McClave, James M., Denver, Colo. Flotation apparatus. 2,168,942; Aug. 8.

McConkey, Walter N., Lima, Ohio. Thermal dilator. 2,168,427; Aug. 8.

McCoy, Thomas A., Oakland, Calif. Packaging process and medium. 2,168,651; Aug. 8.

McCreary, Alfred D., Aliquippa, assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa. Tension control for strip mills. 2,168,777; Aug. 8.

McDonald, John C., Clinton, Mo. Apparatus for producing gas. 2,168,652; Aug. 8.

McIlvaine, Cloyd A., Balboa Heights, Canal Zone. Shutter. 2,169,157; Aug. 8.

McGraw Electric Company. (See Ireland, Murray, assignor.)

McGrew, John A., Albany, N. Y. Railroad track construction. 2,168,676; Aug. 8.

McIntyre, William F. (See Hassan, Joseph A., assignor.)

McKee, Harry H., assignor to Industrial Patents Corporation, Chicago, Ill. Tongue protector. 2,168,713; Aug. 8.

McKee, Harry H. (See Lohner, C. L., and McKee.)

McKee, John C. (See Anderson, C. J., and McKee.)

McKeen, George E., Minneapolis, Minn. Locking device. 2,168,677; Aug. 8.

McMath, Charles W., and L. C. Roots, Jr., assignors to Traders Oil Mill Company, Fort Worth, Tex. Pelleting of materials. 2,168,532; Aug. 8.

Meagher, Ira E., Jr., Minneapolis, Minn. Toy airplane. 2,168,653; Aug. 8.

Meinholdt, Charles L., assignor of one-fourth to F. P. Martin and one-fourth to C. H. Martin, Topeka, Kans. Mowing machine. 2,168,738; Aug. 8.

Mekelburg, Harold L. (See Hunter R. B., and Mekelburg.)

Mellor, Wilbur L., assignor to Baker-Lockwood Mfg. Company, Inc., Kansas City, Mo. Tent. 2,168,428; Aug. 8.

Meng, Emil R. (See Holber, W. G., and Meng.)

Merck & Co. (See Weijlard, J., and Stevens, assignors.)

Merrill, Ralph K., assignor to American Seating Company, Grand Rapids, Mich. School desk. 2,168,910; Aug. 8.

Messinger Devices, Incorporated. (See Messinger, Lester H., Jr., assignor.)

Messinger, Lester H., Jr., Trumbull, assignor to Messinger Devices, Incorporated, Bridgeport, Conn. Attachment for internal combustion engines. 2,168,605; Aug. 8.

Mesta Machine Company. (See Iversen, Lorenz, assignor.)

Mestre, Louis N., assignor to Anciens Etablissements Barbier, Benard & Turenne, Paris, France. Episcopic apparatus. 2,168,487; Aug. 8.

Metallgesellschaft Aktiengesellschaft et al. (See Bentz, E., and Jaenicke, assignors.)

Metal Textile Corporation. (See Dowd, Charles H., assignor.)

Meylauer, Gustav, Berlin-Friedrichshafen, Germany, assignor to General Electric Company. Electric cable. 2,169,108; Aug. 8.

Meyer, Pierre H., Mount Vernon, N. Y. Corner bracket for shelves. 2,168,911; Aug. 8.

Meyer, Pierre H., Mount Vernon, N. Y. Yieldable ticket holder. 2,168,912; Aug. 8.

Michaelson, John W. (See Kesteven, C. E., and Michaelson.)

Michel, Mathias, Wauwatosa, Wis., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Protective relay system for synchronous machines. 2,169,029; Aug. 8.

Michielli, Pierre. (See Caldora, Armand, assignor.)

Mid-Continent Petroleum Corporation. (See Mapes, D. B., and Dons, assignors.)

Middleton, Andrew W., Oakland, Calif. Tent. 2,168,913; Aug. 8.

Mid-States Gummed Paper Co. (See Humphner, Ferdinand W., assignor.)

Miessner, Benjamin F., assignor to Miessner Inventions, Inc., Millburn Township, Essex County, N. J. Apparatus for the production of music. 2,168,623; Aug. 8.

Miessner Inventions, Inc. (See Miessner, Benjamin F., assignor.)

Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Film wind for folding cameras. 2,169,000; Aug. 8.

Mihalyi, Joseph, assignor to Eastman Kodak Company, Rochester, N. Y. Camera shutter setting and film winding mechanism. 2,169,001; Aug. 8.

Millberg, Harry. (See Fish, Lawrence, assignor.)

Miller, Christian, New York, N. Y., assignor to Edwards and Company, Inc. Code calling selector. 2,169,158; Aug. 8.

Miller, Edward W., assignor to The Fellows Gear Shaper Company, Springfield, Vt. Work placing method and means for gear cutting machines. 2,168,488; Aug. 8.

Miller Printing Machinery Co. (See Huffman, Samuel A., assignor.)

Miner, James H., Meridian, Miss. Ice tray. 2,168,739; Aug. 8.

Miner, James H., Meridian, Miss., assignor to General Motors Corporation, Detroit, Mich. Ice tray. 2,168,678; Aug. 8.

Miner, Ralph K. (See Burrell, L., and Miner.)

Miner, W. H., Inc. (See Johnson, G. A., and Haseltine, assignors.)

Mini, Flora B. C. (See Case, Oliver M., assignor.)

Minneapolis-Honeywell Regulator Company. (See Gille, Willis H., assignor.)

Minneapolis-Honeywell Regulator Company. (See Shipley, Sylvanus C., assignor.)

Miracle Massage Appliances, Inc. (See Kesteven, C. E., and Michaelson, assignors.)

Miyata, Akira, assignor to Zaidan Hojin Rikagaku Kenkyujo, Hongo-ku, Tokyo, Japan. Sound-recording disk. 2,168,826; Aug. 8.

Mizer, Joseph J., assignor to Walker Manufacturing Company, Racine, Wis. Lifting mechanism. 2,168,489; Aug. 8.

Moninger, Lee M., Los Angeles, Calif. Vending machine. 2,168,914; Aug. 8.

Mojonnier Bros. Co. (See Mojonnier, Julius J., assignor.)

Mojonnier, Julius J., Oak Park, Ill., assignor to Mojonnier Bros. Co. Liquid treating apparatus. 2,169,054; Aug. 8.

Möller, Georg, Berlin-Neukolin, Germany. Accurate screw cutting. 2,169,159; Aug. 8.

Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)

Montardo, Agostino C., assignor of fifty-one per cent to N. F. Cedrone, Boston, Mass. Indicator for musical compositions. 2,169,002; Aug. 8.

Montgomerie, John A., Canibuslang, and P. K. Archibald, Rutherglen, Scotland, assignors to American Bitumuls Company, San Francisco, Calif. Producing waterproof fibrous sheets. 2,168,778; Aug. 8.

Moreton, Henry H., Laguna Beach, Calif. Destroying sewage. 2,169,160; Aug. 8.

Morris, Donald W., assignor to Twin Disc Clutch Company, Racine, Wis. Clutch mechanism. 2,168,960; Aug. 8.

Morrison, George O., and A. F. Price, Shawinigan Falls, Quebec, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Making vinyl-acetal resins. 2,168,827; Aug. 8.

Moss, Maurice, New York, N. Y. Ring. 2,168,490; Aug. 8.

Motor Wheel Corporation. (See Horn, Harry J., assignor.)

Moto-Mower Company, The. (See George, E. S., and Blydenburgh, assignors.)

Moysesian, Edgar, Bradford, assignor to J. S. Kamborian, Newton, Mass. Shoe. 2,168,606; Aug. 8.

Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Sewing machine. 2,168,740; Aug. 8.

Mueller, Charles W., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo. Blind stitch sewing machine. 2,168,741; Aug. 8.

Müller, Gustav W., Berlin-Charlottenburg, Germany, assignor to General Electric Company. Air cooling means for dry rectifiers. 2,169,109; Aug. 8.

Mullins Manufacturing Corporation. (See Anderson, C. J., and McKee, assignors.)

Multiple Corporation. (See Safir, Jacob A., assignor.)

Mulvany, Mary G. (See Kyle, Samuel C., assignor.)

Murray, Alexander, assignor to Eastman Kodak Company, Rochester, N. Y. Photosensitive material. 2,169,003; Aug. 8.

Murray, Howard J., New York, N. Y. Television system. 2,169,071; Aug. 8.

Murray, Howard S., assignor to Uniflow Pump Company, Las Vegas, Nev. Concrete pump. 2,168,779; Aug. 8.

Murray-Ohio Manufacturing Company, The. (See Kraeft, Herman L., assignor.)

Muse, Marshall H., New York, N. Y. Paper dispenser. 2,169,072; Aug. 8.

Musgrave, Claude E., Cedar Rapids, assignor to Globe Hoist Company, Des Moines, Iowa. Automobile lift platform. 2,168,624; Aug. 8.

Musher, Albert, New York, N. Y., assignor to Musher Corporation, Elizabeth, N. J. Concentrated food product. 2,168,360; Aug. 8.

Musher Corporation. (See Musher, Albert, assignor.)

Mutscheller, Arthur. (See Hirsch, Samuel, assignor.)

Myers, Don D., Toledo, Ohio. Shock absorber. 2,168,679; Aug. 8.

Myers, F. E., and Bro. Company, The. (See Elliott, Frank R., assignor.)

Myers, Louis, Galesburg, Ill. Drink mixer. 2,168,429; Aug. 8.

Myers, Louis, Galesburg, Ill. Juice extractor. 2,168,430; Aug. 8.

N. V. Maatschappij Voor Zwavelzuurbereiding Voorheen G. T. Keijen & Co. (See Van Es, Adriaan C., assignor.)

N. V. Philips' Gloeilampenfabrieken. (See Hardenberg, Jan J., assignor.)

N. V. Philips' Gloeilampenfabrieken. (See Romp, Johan, assignor.)

Nadeau, Gale F. (See Lankes, L. R., and Nadeau.)

Nadeau, Gale F. (See Lankes, L. R., and Nadeau.)

Nagel, August, Stuttgart, Germany, assignor to Eastman Kodak Company, Rochester, N. Y. Shutter release for folding cameras. 2,169,005; Aug. 8.

National Cash Register Company, The. (See Berger, Friedrich W. F., assignor.)

National Hydrolator Company. (See O'Neill, F., and Robertson, assignors.)

National Lock Co. (See Lane, J. H., and (North, assignor).)

National Malleable and Steel Castings Company. (See Kaiser, W., and Balke, assignors.)

National Rubber Machinery Company. (See Iverson, Cato, assignor.)

Neaman, Harry I., et al. (See Carney, Daniel E., assignor.)

Nederlandsche Maatschappij "Sogedio" N. V. (See Utermöhlen, Gerhard P., assignor.)

Nelles, Maurice H., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Production of glutaric acid. 2,168,844; Aug. 8.

Nelson, Arthur W., Park Ridge, assignor to Locomotive Firebox Company, Chicago, Ill. Locomotive firebox. 2,168,625; Aug. 8.

Neptune, Herman P., Los Angeles, Calif. Form clamp. 2,168,714; Aug. 8.

Newland, Jay R., Benton Harbor, Mich., assignor to Remington Rand Inc., Buffalo, N. Y. Loose leaf binder. 2,168,802; Aug. 8.

New Products Corporation. (See Banker, Oscar H., assignor.)

New Process Rayon, Inc. (See Gulbrandsen, Sverre, assignor.)

Newton, Roy C., and F. L. De Beukelaer, assignors to Industrial Patents Corporation, Chicago, Ill. Glue treatment. 2,168,626; Aug. 8.

Newell, William H., Bronx, assignor to Ford Instrument Company, Inc., Long Island City, N. Y. System for transmitting angular motion. 2,168,575; Aug. 8.

Nickola, Faris, Flint, Mich. Vehicle windshield. 2,168,533; Aug. 8.

Nicolet, Victor, and R. Rousselet, Paris, France. Vehicle brake. 2,168,845; Aug. 8.

Niemann, Georg, and L. Kollek, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Coloring plastic masses. 2,168,576; Aug. 8.

Nippon Filmon Kabusiki Kaisya. (See Konishi, Shozo, assignor.)

Noll, Henry D., Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Treating oils. 2,168,875; Aug. 8.

Nordgren, Arnold W., South Bend, Ind., assignor to International Engineering Corporation, Chicago, Ill. Control system for heating plants. 2,168,680; Aug. 8.

North, Edwin W. (See Lane, J. H., and North.)

Northern Cold Storage and Warehouse Company. (See Fregeau, Frank E., assignor.)

Northern Indiana Brass Company. (See Arbogast, Alfred C., assignor.)

Noyack, Edward, Seymour, Conn., assignor to The Risdon Manufacturing Company. Fabricating cosmetic holders. 2,168,876; Aug. 8.

Noyack, Edward, Seymour, and G. P. Peterson, Naugatuck, Conn., assignors to The Risdon Manufacturing Company. Fabricating cosmetic holder. 2,168,877; Aug. 8.

Nuesslein, Joseph, and G. von Finck, Frankfort-on-the-Main, and H. Stärk, Bad Soden in Taunus, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Waterproofing textile material and the material thus obtained. 2,168,534; Aug. 8.

Nuesslein, Josef, and G. von Finck, Frankfort-on-theMain, and H. Stärk, Bad Soden in Taunus, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Textile material and preparing it. 2,168,535; Aug. 8.

Nystrom, Gunnar B., assignor to The Republic Brass Company, Cleveland, Ohio. Drain fitting. 2,169,006; Aug. 8.

O'Brien, Brian, Rochester, N. Y. Method and apparatus for separating material. 2,168,681; Aug. 8.

O'Brien, Frank J., Pelham, assignor to Continental Can Company, Inc., New York, N. Y. Container and detachable pouring spout. 2,168,607; Aug. 8.

O'Brien, Frank J., Pelham, and O. G. Jakob, St. Albans, assignors to Continental Can Company, Inc., New York, N. Y. Container and detachable spout. 2,168,609; Aug. 8.

O'Brien, Frank J., Pelham, and W. F. Punte, Syracuse, assignors to Continental Can Company, Inc., New York, N. Y. Container and detachable pouring spout. 2,168,608; Aug. 8.

O'Donnell, James A., et al. (See Reenstierna, Gustaf L., assignor.)

Ohio Chemical and Manufacturing Company, The. (See Stevens, E. J., and Heldbrink, assignors.)

Okonite-Callender Cable Company, The. (See Bennett, Charles E., assignor.)

Olds, Ambrose D., assignor to The Coleman Lamp and Stove Company, Wichita, Kans. Safety device for heaters. 2,168,749; Aug. 8.

Olshevsky, Dimitry E., East Orange, N. J. X-ray tube. 2,168,780; Aug. 8.

Olshevsky, Dimitry E., East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind. Pressure regulating device for aircraft instruments. 2,168,536; Aug. 8.

Olson, Gustaf H., C. F. Schoelm, and H. F. Allen, assignors to Link-Belt Company, Chicago, Ill. Brake operating mechanism. 2,168,654; Aug. 8.

Olson, John W., Hastings-on-Hudson, assignor to Anaconda Wire and Cable Company, New York, N. Y. Apparatus for marking strands. 2,168,431; Aug. 8.

Olson, Phillip W., Grand Rapids, Mich., assignor to Automatic Instrument Company. Clothes hanger. 2,168,361; Aug. 8.

O'Neill, Felix, and G. L. Robertson, assignors to National Hydrolator Company, Inc., Philadelphia, Pa. Adjustable flush regulator. 2,168,742; Aug. 8.

Ordal, Sigval E., Chicago, Ill. Hairpin opener. 2,168,432; Aug. 8.

Ostendorf, William L., Rayland, Ohio. Coupler for lubricant fittings. 2,168,915; Aug. 8.

Overly, Walter S., Lima, Ohio. Foot-controlled directional light switch. 2,169,161; Aug. 8.

Overmier, Emmons, La Grange, T. E. Rodman, Glencoe, Ill., and D. M. Clarke, North Tarrytown, N. Y., assignors, by mesne assignments, to Poor & Company, Chicago, Ill. Rail and wheel flange lubricator. 2,168,577; Aug. 8.

Overshiner, Ellsworth B., Chicago, Ill., assignor, by mesne assignments, to Shellmar Products Company, Mount Vernon, Ohio. Perfume fixative. 2,169,055; Aug. 8.

Owens-Corning Fiberglas Corporation. (See Slayter, Games, assignor.)

P K Drive Corp. (See Köhl, Hermann, assignor.)

Page, John, Evanston, assignor to United States Gypsum Company, Chicago, Ill. Method and apparatus for manufacturing wallboard. 2,168,803; Aug. 8.

Paine, Willard B., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch operating mechanism. 2,168,682; Aug. 8.

Panzerbleter, Hans. (See Jacoby, H., and Panzerbleter.)

Paris, Robert E., assignor to International Business Machines Corporation, New York, N. Y. Printing machine. 2,168,446; Aug. 8.

Parker, Aloysius A., Brooklyn, N. Y. Fluid treating of photographic film. 2,168,846; Aug. 8.

Parmetet, Walter N., assignor of one-third to H. Bogue, Canton, S. Dak. Tourist cooker. 2,168,491; Aug. 8.

Parr, Webster A., assignor to The Roto-Way Corporation, Chicago, Ill.; F. E. Hummel, trustee. Hamburger frying machine. 2,168,773; Aug. 8.

Parvopassu, Pietro, Rome, Italy. Cinematographical projecting apparatus with optical compensation. 2,168,433; Aug. 8.

Pasternack, Richard, Brooklyn, and E. V. Brown, Jamaica, assignors to Charles Pfizer & Company, Brooklyn, N. Y. Catalytic hydrogenation of the keto group of calcium 5-keton-gluconate and product. 2,168,878; Aug. 8.

Pasternack, Richard, Brooklyn, and E. V. Brown, Jamaica, assignors to Charles Pfizer & Company, Brooklyn, N. Y. Preparation of stable concentrated solutions of therapeutically useful calcium compounds. 2,168,879; Aug. 8.

Patent and Licensing Corporation, The. (See Veazey, Marion H., assignor.)

Pateras Pescara, Raul, Paris, France. Free piston machine. 2,168,829; Aug. 8.

Pateras Pescara, Raul, Paris, France, assignor to Société d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland. Starting means for free piston motor compressors. 2,168,828; Aug. 8.

Paterson, John C., Peterborough, England, assignor to Baker Perkins Company Inc., Saginaw, Mich. Conveyer. 2,168,419; Aug. 8.

Paterson, John C. (See Baker, G. R., and Paterson.)

Patterson, Morehead, New York, N. Y., assignor to Durham Duplex Razor Company. Safety razor. 2,168,447; Aug. 8.

Paul, Ralph H., Cremorne, Sydney, New South Wales, Australia. Tennis scoring device. 2,168,743; Aug. 8.

Pawsat, Ewald F., assignor to Wald Mfg. Co., Inc., Maysville, Ky. Bicycle basket mounting. 2,168,916; Aug. 8.

Payson, Howard L., Quincy, Mass. Combination toilet article. 2,168,804; Aug. 8.

Pedrazzo, Emil R., West New York, N. J., assignor to Magic Automatic Loom Co., New York, N. Y. Loom. 2,168,420; Aug. 8.

Peebles, David D., Eureka, and P. D. V. Manning, Berkeley Woods, Calif. Evaporating apparatus and method. 2,168,362; Aug. 8.

Pelikan, John M., Crafton, assignor to The Union Switch & Signal Company, Swissvale, Pa. Signaling apparatus. 2,168,805; Aug. 8.

Pennie, Albert E., et al. (See Reenstierna, Gustaf L., assignor.)

Pennock, Paul A., Jamestown, N. Y. Vehicle signaling mechanism. 2,168,492; Aug. 8.

Pennsylvania Salt Manufacturing Company, The. (See Schmidt, Heinrich, assignor.)

People in the Territory of the United States, Dedicated to the free use of the. (See Bosworth, J. H., and Conrad.)

Perkins, Albert G., Warsaw, N. Y. Aparatus for coating pipes and the like. 2,168,917; Aug. 8.

Perkins, Charles E., assignor to Houde Engineering Corporation, Buffalo, N. Y. Hydraulic shock absorber control for railway cars. 2,168,578; Aug. 8.

Perkins, Edward H., et al. (See Glidden, Charles C., assignor.)

Perreton, Arnold, Durham, N. H. Device for cutting and packing comb honey. 2,168,579; Aug. 8.

Perrine, Lester E., assignor to General Motors Corporation, Detroit, Mich. Variable speed drive. 2,168,744; Aug. 8.

Persons, Lawrence M., St. Louis County, assignor to Automatic Control Corporation, St. Louis, Mo. Snap switch for coffee roasters. 2,168,580; Aug. 8.

Petersen, John, Newark, N. J. Hearing device. 2,168,781; Aug. 8.

Peterson, Edward S., Elmwood Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,168,880; Aug. 8.

Peterson, Edward S., Elmwood Park, assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Telephone system. 2,168,881; Aug. 8.

Peterson, Gunnard P. (See Noyack, E., and Peterson.)

Peterson, Julius, assignor to Deere & Company, Moline, Ill. Two-way plow. 2,168,882; Aug. 8.

Peterson, Seth, Oak Park, and J. E. Gunseth, Jr., Glen Ellyn, assignors, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill. Secretarial answering system. 2,168,883; Aug. 8.

Petitcolas, Pierre, Rouen, assignor to Compagnie Nationale de Matieres Colorantes et Manufactures de Produits Chimiques du North Reunies, Etablissements Kuhlman, Paris, France. Azo dyestuffs and the manufacture thereof. 2,169,162; Aug. 8.

Petroleum Engineering, Inc. (See Raigorodsky, Paul M., assignor.)

Peyruqueou, Pierre F., Mont-de-Marsan, assignor to Societe Anonyme des Freins Bendix, Clichy, Seine, France. Servo-clutch. 2,168,715; Aug. 8.

Pfizer, Charles, & Company. (See Pasternack, R. and Brown, assignors.)

Pflasterer, George R., assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 2,168,817; Aug. 8.

Pfundt, Paul, Kiel, Germany, assignor to The Brush Development Company, Cleveland, Ohio. Uniting fusible crystalline bodies. 2,168,943; Aug. 8.

Philco Radio & Television Corporation. (See Duncan, Justin R., assignor.)

Philco Radio and Television Corporation. (See Grimes, David, assignor.)

Pierce, Frank R., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,168,537; Aug. 8.

Pike, Vernon B. (See Ballard, H., and Pike.)

Pitman, Henry L., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Typewriting machine. 2,168,448; Aug. 8.

Pitman, Henry L., Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y. Combined typewriting and computing machine. 2,168,538; Aug. 8.

Pitney-Bowes Postage Meter Co. (See Strother, John A., assignor.)

Pittman, Ralph R., Pine Bluff, Ark. Repulsion lightning arrester. 2,169,110; Aug. 8.

Place, Bion C., assignor to Prestole Devices, Inc., Detroit, Mich. Adapting sheet metal for screws. 2,169,056; Aug. 8.

Place, Bion C., assignor to Prestole Devices, Inc., Detroit, Mich. Adapting sheet metal elements for screws. 2,169,057; Aug. 8.

Pleiss, Walter H., Ludington, Mich., assignor to Burke & James, Inc., Chicago, Ill. Film clip. 2,169,073; Aug. 8.

Plews, Ralph G., Winnipeg, Manitoba, Canada. Oil ejector. 2,168,493; Aug. 8.

Pneumatic Scale Corporation. (See Howard, Stanley R., assignor.)

Pneumatic Scale Corporation. (See Vergobbi, John G., assignor.)

Polhemus, Charles B., San Jose, Calif. Barbecue stove. 2,168,944; Aug. 8.

Pool, William O. (See Ralston, A. W., and Pool.)

Poor & Company. (See Armstrong, Victor C., assignor.)

Poor & Company. (See Bates, Sidney E., assignor.)

Poor & Company. (See Overmier, E., Rodman, and Clarke, assignors.)

Pos, Gerrit M. E., Martinez, Calif. Apparatus for mixing fluids. 2,168,363; Aug. 8.

Poux, Noel J., assignor to Talon, Inc., Meadville, Pa. Making separable fasteners. 2,169,176; Aug. 8.

Power Patents Company. (See Brandt, David G., assignor.)

Pratt, Emil F. (See Aspenes, Manthen, assignor.)

Pratt, John W., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Shoe machine. 2,168,494; Aug. 8.

Preble, Norman H. (See Webb, J. B., and Preble, assignors.)

Prestole Devices, Inc. (See Kost, Harold W., assignor.)

Prestole Devices, Inc. (See Place, Bion C., assignor.)

Preston, Edward S., Hinsdale, assignor to Chicago Electric Manufacturing Company, Chicago, Ill. Supporting means. 2,169,125; Aug. 8.

Price, Aubrey F. (See Morrison, G. O., and Price.)

Price, Stanley, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Tape serving machine. 2,169,058; Aug. 8.

Prox, Frank, Company. (See Fulke, Frank L., assignor.)

Prudden, Theodore M., Hingham, Mass. Acoustical treatment for upholstered structures. 2,168,627; Aug. 8.

Pufahl, Hans R., Chicago, Ill., and J. H. Bucknam, Cranford, N. J., assignors to The Linde Air Products Company. Method and apparatus for thermochemically removing metal from bodies of ferrous metal. 2,168,581; Aug. 8.

Punte, William F. (See O'Brien, F. J., and Punte.)

Putnam, George W., Youngstown, assignor to The Republic Steel Corporation, Cleveland, Ohio. Open hearth furnace. 2,169,163; Aug. 8.

Quarzlampen-Gesellschaft m. b. H. (See Jollasse, Erik, assignor.)

Radio Corporation of America. (See Dolbear, Benjamin L., assignor.)

Radio Corporation of America. (See Goodenough, Ernest F., assignor.)

Radio Corporation of America. (See Headrick, Lewis B., assignor.)

Radio Corporation of America. (See Landis, Daniel O., assignor.)

Radio Corporation of America. (See La Rue, W. D., and Harvey, assignors.)

Radio Corporation of America. (See Roberts, Walter V., assignor.)

Radio Corporation of America. (See Zworykin, Vladimir K., assignor.)

Ragan, Thomas M., Tulsa, Okla. Automobile steering wheel. 2,168,961; Aug. 8.

Raigorodsky, Paul M., assignor to Petroleum Engineering, Inc., Tulsa, Okla. Absorption process. 2,168,683; Aug. 8.

Ralston, Anderson W., assignor to Armour and Company, Chicago, Ill. Thioamides and preparing the same. 2,168,847; Aug. 8.

Ralston, Anderson W., assignor to Armour and Company, Chicago, Ill. Extreme pressure lubricant. 2,168,848; Aug. 8.

Ralston, Anderson W., and W. O. Pool, assignors to Armour and Company, Chicago, Ill. Concentraing ores. 2,168,849; Aug. 8.

Rasmussen, Alvin C., assignor to Insley Manufacturing Corporation, Indianapolis, Ind. Hoist and feed hopper. 2,168,495; Aug. 8.

Raymond Concrete Pile Company. (See Upson, Maxwell M., assignor.)

Redmond, Harriet L., Needham, assignor to The William Carter Company, Needham Heights, Mass. Garment having closed neck opening. 2,169,164; Aug. 8.

Redwine, Ida F., Waltham, Mass. Swimming gear. 2,168,945; Aug. 8.

Reece, Harry A., South St. Joseph, Mo., assignor to Industrial Patents Corporation, Chicago, Ill. Tongue protector. 2,168,716; Aug. 8.

Reed, Arthur W. (See Bryant, Will H., assignor.)

Reed, Clair S., assignor to Reynolds Spring Company, Jackson, Mich. Seat structure. 2,169,197; Aug. 8.

Reedy, James A., White Hall, Md. Wind propelled turbine motor. 2,169,165; Aug. 8.

Reenstierna, Gustaf L., Union City, assignor of one-third to F. Zamorski, Jersey City, one-third to J. A. O'Donnell, and one-third to A. E. Pennle, Union City, N. J. Vehicle automatic signal. 2,168,684; Aug. 8.

Regan Forge & Engineering Company. (See Day, Leon E., assignor.)

Reich, Erich, Aue, assignor to Ernst Gessner Aktiengesellschaft, Aue (Saxony), Germany. Ring spinning frame. 2,168,449; Aug. 8.

Reilly, John L., Claremont, N. H., assignor to Sullivan Machinery Company. Power-transmitting apparatus. 2,168,806; Aug. 8.

Remington Arms Company. (See Woodford, Watson H., assignor.)

Remington Rand Inc. (See Newland, Jay R., assignor.)

Reiha, Peter, Alice, Tex. Stroke-increasing device. 2,169,126; Aug. 8.

Republic Brass Company, The. (See Nystrom, Gunnar B., assignor.)

Republic Steel Corporation, The. (See Putnam, George W., assignor.)

Reynolds, Arthur T., Brooklyn, N. Y., and W. F. Todé, Radburn-Fairlawn, N. J. Support. 2,168,421; Aug. 8.

Reynolds, Charles F., Cleveland, Ohio, assignor to The Eastern Malleable Iron Company, Naugatuck, Conn. Chain repair link. 2,168,539; Aug. 8.

Reynolds, Joseph H. (See Blackmond, William C., assignor.)

Reynolds Spring Company. (See Reed, Clair S., assignor.)

Richardson, Clyde S., Harvey, Ill., assignor, by mesne assignments, to General Time Instruments Corporation, New York, N. Y. Time system. 2,168,628; Aug. 8.

Richter, Max, West Reading, assignor to Textile Machine Works, Wyomissing, Pa. Yarn-feeding means. 2,168,884; Aug. 8.

Rickenbach, Harry C., Pittsburgh, and W. E. Herman, Crafton Heights, Pa. Grade indicator. 2,168,885; Aug. 8.

Rider, Ernest G., assignor to Stokes and Smith Company, Philadelphia, Pa. Making boxes. 2,168,422; Aug. 8.

Rider, Rowland W., assignor to Utah Royalty Corporation, Salt Lake City, Utah. Centrifugal crusher. 2,168,582; Aug. 8.

Riedel, J. D., -E. de Haen Aktiengesellschaft. (See Braun, K., and Rosenbusch, assignors.)

Ringer, Chauncey I., Highland, Ohio. Hog feeder. 2,168,745; Aug. 8.

Ringler, William A., Wayne, Pa., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Wrapping packages. 2,168,583; Aug. 8.

Rippl, Charles H., assignor to The Clark Controller Company, Cleveland, Ohio. Pneumatically operated electric contactor. 2,168,629; Aug. 8.

Risdon Manufacturing Company, The. (See Noyack, Edward, assignor.)

Risdon Manufacturing Company, The. (See Noyack, E., and Peterson, assignors.)

Ritzerfeld, Wilhelm, Berlin, Germany. Stop device for movable parts on rotary reprinting machines. 2,168,717; Aug. 8.

Rival Manufacturing Company. (See Lee, Harry A.)

Röber, Constantin F., and E. Räthig, assignors to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Co., Dresden, Germany. Apparatus for forming cigar tips. 2,169,166; Aug. 8.

Roberts, Daniel A., Chicago, Ill. Actuating means for typewriters and other mechanisms. 2,168,886; Aug. 8.

Roberts, Walter V., Princeton, N. J., assignor to Radio Corporation of America. Electron discharge device circuit. 2,168,782; Aug. 8.

Robertson, George L. (See O'Neill, F., and Robertson.)

Robinson, Joseph, New York, N. Y. Electrical vaporizer. 2,168,450; Aug. 8.

Robison, Paul J., Thompson, Ohio. Hydraulic implement. 2,168,496; Aug. 8.

Robrahn, Ira C., assignor to American Box Board Company, Grand Rapids, Mich. Animal shipping box. 2,169,030; Aug. 8.

Rodin, Mate M., San Pedro, Calif. Bag hook. 2,169,127; Aug. 8.

Rodman, Thomas E. (See Overmier, E., Rodman, and Clarke.)

Roeschlein, Stefan. (See Tronnier, A. W., Roeschlein, and Lescher.)

Rogers, James F., Rocky River, Ohio. Tie clip. 2,168,946; Aug. 8.

Roblin, Victor A., and C. E. Joos, assignors to Cochrane Corporation, Philadelphia, Pa. Water purifying and degasifying apparatus. 2,168,584; Aug. 8.

Romp, Johan, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Making hard metal bodies. 2,169,007; Aug. 8.

Roots, Logan C., Jr. (See McMath, C. W., and Roots.)

Rose, Edwin L., assignor to The Waterbury Tool Company, Waterbury, Conn. Power transmission. 2,168,655; Aug. 8.

Rose, Edwin L., Watertown, and R. L. Tweedale, assignors to The Waterbury Tool Company, Waterbury, Conn. Power transmission. 2,168,656; Aug. 8.

Rosenbusch, Richard. (See Braun, K., and Rosenbusch.)

Rotary Index Co. (See Brien, George C., assignor.)

Rothfield, Max, Brooklyn, N. Y. Support for sewing machine tables. 2,168,151; Aug. 8.

Röthig, Ernst. (See Röber, C. F., and Röthig.)

Rotor Way Corporation, The. (See Parr, Webster A., assignor.)

Rousselet, Robert. (See Nicolet, V., and Rousselet.)

Royer Foundry and Machine Co. (See Davies, Stanley B., assignor.)

Roznowski, Martin J. (See Wheler, A. G., and Roznowski.)

Rucker, Joseph, Philadelphia, Pa. Flow booster for air pipes. 2,168,783; Aug. 8.

Rugg, Edward H., Bridgeport, Conn., assignor to General Electric Company. Service entrance cable clamp. 2,169,114; Aug. 8.

Russell, Philip S. (See Hamm, A. G., and Russell.)

Ruzicka, Leopold, Zurich, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland. Compounds of the cyclopentano-hydrophenanthrene series and making same. 2,168,685; Aug. 8.

Saal, George F., and J. G. Schmitt, assignors to Economy Engineering Co. Inc., Los Angeles, Calif. Method and apparatus for lubrication. 2,168,746; Aug. 8.

Sachs, Joseph, West Hartford, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Electric switch. 2,168,540; Aug. 8.

Safir, Jacob A., assignor to Multiple Corporation, Chicago, Ill. Hypodermic syringe and cartridge. 2,168,686; Aug. 8.

Sarvis, Louis, Upper Darby, assignor to E. F. Houghton & Co., Philadelphia, Pa. Cyanide salt bath. 2,169,008; Aug. 8.

Sawyer, Edson W., Edgewood, R. I., and R. F. Gibbs, Norton, Mass., assignors to Laminated Metals Corporation. Manufacture of formed wire. 2,169,129; Aug. 8.

Scalfe, Arthur J., Ardmore, Pa. Carburetor float valve. 2,168,718; Aug. 8.

Schaefer, John E., Chicago, Ill., assignor to United Autographic Register Co. Feed mechanism for duplicating machines. 2,168,364; Aug. 8.

Scheele, Charles C., assignor to Easy Washing Machine Corporation, Syracuse, N. Y. Agitator for washing machines. 2,168,887; Aug. 8.

Schieren, George A., New York, N. Y. Platen press. 2,168,452; Aug. 8.

Schiff, Karl L., Berlin-Marienfelde, Germany. Vehicle. 2,168,630; Aug. 8.

Schilipmann, Heinrich, Berlin-Niederschoneweide, Germany. Metal-spraying pistol. 2,168,807; Aug. 8.

Schmid, Richard. (See Kracker, H., and Schmid.)

Schmidt, Heinrich, Walddorf, Germany, assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa. Producing hydrogen peroxide from solutions. 2,169,128; Aug. 8.

Schmitt, John G. (See Saal, G. F., and Schmitt.)

Schneider, Jos., & Co. Optische Werke. (See Tronnier, A. W., Roeschlein, and Lescher, assignors.)

Schneider, Kurt R., and C. J. Fitch, Endicott, assignors to International Business Machines Corporation, New York, N. Y. Keyboard locking means. 2,168,423; Aug. 8.

Schoelm, Charles F. (See Olson, G. H., Schoelm, and Allen.)

Schoenfeld, Frank K., Silver Lake Village, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Acceleration of vinyl halide polymerization. 2,168,808; Aug. 8.

Schoenlaub, Elmer J., Marion, Ohio. Garment sacker. 2,168,962; Aug. 8.

Schroeder, Charles S., Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn. Wheel mounting. 2,169,167; Aug. 8.

Schröter, Karl. (See Dawihl, W., and Schröter.)

Schroth, Jerome B., Santa Ana, Calif. Beach parasol anchor. 2,168,830; Aug. 8.

Schultz, William O., assignor to Line Material Company, South Milwaukee, Wis. Fuse construction. 2,168,586; Aug. 8.

Schupp, Theodore M., Richfield Township, Summit County, Ohio. Abrading tool. 2,168,497; Aug. 8.

Schutt, Hermann C., North Tarrytown, N. Y., assignor to Gyro Process Company, Detroit, Mich. Treating hydrocarbon oils. 2,168,610; Aug. 8.

Schwartz, Aaron, New York, N. Y., assignor to Celanese Corporation of America. Wrapper. 2,168,585; Aug. 8.

Schweller, Edmund F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,169,198; Aug. 8.

Schwertfeger, Walter J. (See Brigham, D. S., and Schwertfeger.)

Scobell, Sidney A. (See Wheler, A. G., and Roznowski, assignors.)

Scott, Philip L., Chicago, Ill., assignor to Super Diesel Tractor Corporation, La Porte, Ind. Plumbing fitting. 2,168,631; Aug. 8.

Scott, Raymond C., assignor to O. B. Andrews Company, Chattanooga, Tenn. Guard or fringe and package therefor. 2,168,784; Aug. 8.

Scott, William J., and W. T. Cowhig, Rugby, England, assignors to General Electric Company. Hermetically sealed vessel. 2,169,112; Aug. 8.

Seliger, Hellmuth, and O. Bretschneider, Bitterfeld, Germany, assignors, by mesne assignments, to Magnesium Development Corporation. Production of metallic magnesium. 2,168,750; Aug. 8.

Sellars, George L. (See Church, R. E., and Sellars.)

Semple, Charles E., Jr., Youngstown, Ohio. Piezoelectric device. 2,168,809; Aug. 8.

Seneca Falls Machine Company. (See Smith, Edwin R., assignor.)

Sennett, Bernard A., Sr., Memphis, Tenn. Candy stick machine and making. 2,168,963; Aug. 8.

Sensaud de Lavaud, Dimitri, Paris, France. Hydraulic device for the transmission of power. 2,168,862; Aug. 8.

Sensaud de Lavaud, Dimitri, Paris, France. Hydraulic power-transmitting device. 2,168,863; Aug. 8.

Servel, Inc. (See Very, William R. M., assignor.)

Severn, Arthur B., assignor to A. Stucki, Pittsburgh, Pa. Side bearing. 2,169,074; Aug. 8.

Seymour, Merrill W., assignor to Eastman Kodak Company, Rochester, N. Y. Color correction for color photography. 2,169,009; Aug. 8.

Shawinigan Chemicals Limited. (See Morrison, G. O., and Price, assignors.)

Sheldrick, Henry W., assignor to Collier-Keyworth Company, Gardner, Mass. Chair base. 2,168,810; Aug. 1.

Shell Development Company. (See Groll, Herbert P. A., assignor.)

Shell Development Company. (See Yabroff, D. L., and White, assignors.)

Shellmar Products Company. (See Overshiner, Ellsworth R., assignor.)

Sheppard, Joseph R., Haddonfield, N. J., assignor to Charles F. Elmes Engineering Works, Chicago, Ill. Hydraulic bending press. 2,169,113; Aug. 8.

Shipley, Sylvanus C., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Damper regulator. 2,169,168; Aug. 8.

Shoemaker, Bernard H., and C. M. Loane, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricating oils. 2,169,185; Aug. 8.

Shoemaker, Bernard H., and H. R. Batchelder, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Diesel fuel. 2,169,186; Aug. 8.

Shoemaker, Bernard H. (See Loane, C. M., and Shoemaker.)

Shuman, Royal L., Newark, N. J., assignor to Celluloid Corporation. Solvent and solution of cellulose esters. 2,168,587; Aug. 8.

Sharon Optical Company. (See Lockhart, William A., assignor.)

Shyer, Joseph, Belle Harbor, assignor to Zylo Ware Corporation, New York, N. Y. Antiglare shield for goggles and sunglasses. 2,169,075; Aug. 8.

Sibley, Edwin J., Westbury, N. Y. Door holder. 2,168,453; Aug. 8.

Sidebotham, Melvin H., West Newton, Mass. Paper box machine. 2,168,751; Aug. 8.

Sieh, Henry, Hammond, Ind. Book gluing machine. 2,169,114; Aug. 8.

Siegel, Alfred, Roselle, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo pigment production. 2,168,888; Aug. 8.

Siemens and Halske, Aktiengesellschaft. (See Jacoby, H., and Panzerbleter, assignors.)

Siemens & Halske Aktiengesellschaft. (See Strecker, F., and Kimmel, assignors.)

Sigmond, David, Brooklyn, N. Y. Cloth clamp. 2,168,752; Aug. 8.

Silverman, Charles, Providence, R. I. Collar holder. 2,168,687; Aug. 8.

Silverstein, Sam, New York, N. Y., now by judicial change of name Sam Barton. Folding trailer. 2,169,076; Aug. 8.

Simms, James H., St. Albans, W. Va. Enlarging apparatus for movie films. 2,168,688; Aug. 8.

Simpson, Herbert S. (See Christensen, A. C., and Granath, assignors.)

Skinner, Eugene C., San Diego, and R. Lawatch, Los Angeles, Calif. Invalid walker. 2,168,424; Aug. 8.

Slater, Fred M., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Rock drill. 2,168,541; Aug. 8.

Slayter, Games, Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation. Porous tube for storage battery electrodes. 2,168,366; Aug. 8.

Sleeseman, Robert, assignor of fifty per cent to W. F. Klonowski, Saginaw, Mich. Walking animal toy. 2,168,425; Aug. 8.

Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Electric discharge apparatus. 2,169,031; Aug. 8.

Slepian, Joseph, Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vapor-electric converter. 2,169,032; Aug. 8.

Smith, Anthony N., Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y. Sparking paper rupture toy weapon. 2,168,454; Aug. 8.

Smith, Edwin R., assignor to Seneca Falls Machine Company, Seneca Falls, N. Y. Feed mechanism for a machine tool. 2,168,632; Aug. 8.

Smith, Edwin R., assignor to Seneca Falls Machine Company, Seneca Falls, N. Y. Contour turning attachment. 2,168,633; Aug. 8.

Smith, Elizabeth E. (See Smith, Will O. and E. E.)

Smith, Ellis C., Schroeder, Minn. Creeper. 2,168,455; Aug. 8.

Smith, Harold, Sutton Coldfield, and H. Taylor, Erdington, Birmingham, assignors to Dunlop Rubber Company, Limited, London, England. Collapsible segmental former. 2,168,588; Aug. 8.

Smith, Henry A. (See Hall, R. W., and Smith.)

Smith, Louis G., and W. A. Bertrand, Brockton, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J. Welt shoe and making the same. 2,168,498; Aug. 8.

Smith, Malcolm A., Haggerstown, Ind. Cotter pin. 2,169,191; Aug. 8.

Smith, Milford F., et al. (See Losure, Lisander, assignor.)

Smith, Robert G., West Orange, N. J. Tool for refacing valve seats. 2,168,753; Aug. 8.

Smith, Will O. and E. E., Pittsburgh, Pa. Dental cleaning compact. 2,168,689; Aug. 8.

Snyder, Franklin L., Sharon, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Regulating system. 2,169,033; Aug. 8.

Societe Anonyme des Freins Bendix. (See Peyruqueou, Pierre F., assignor.)

Société d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A. (See Pateras Pescara, R., assignor.)

Societe Generale des Carburateurs Zenith. (See Lichtenstein, Johan, assignor.)

Society of Chemical Industry in Basle. (See Albrecht, Otto, assignor.)

Society of Chemical Industry in Basle. (See Kaiser, Otto, assignor.)

Society of Chemical Industry in Basle. (See Ruzicka, Leopold, assignor.)

Socony-Vacuum Oil Company. (See Noll, Henry D., assignor.)

Solomon, Nathan L., Brooklyn, N. Y. Slumber curler. 2,168,368; Aug. 8.

Solomon, Nathan L., Mount Vernon, N. Y. Barrette. 2,168,369; Aug. 8.

Solomon, Nathan L., Mount Vernon, N. Y. Eyelash curler. 2,168,370; Aug. 8.

Sonnenborn, L., Sons, Inc. (See Blumer, Manuel, assignor.)

Soss, Henry. (See Soss, Joseph and H.)

Soss, Joseph and H., Roselle, N. J. Hinge. 2,169,059; Aug. 8.

Speir, Melvin O., Austin, Tex. Traffic-signal light. 2,168,831; Aug. 8.

Spencer, Walter A., Chicago, Ill. Geometric model. 2,168,634; Aug. 8.

Spicacci, Attilio R., Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich. Antifriction bearing. 2,168,499; Aug. 8.

Spitalny, Fred, Elizabeth, N. J. Cigarette case. 2,168,918; Aug. 8.

Stacy-Judd, Robert B., Hollywood, Calif. Game. 2,168,365; Aug. 8.

Staley, A. E., Manufacturing Company. (See Langlois, David P., assignor.)

Standard Oil Company, The. (See Burk, Robert E., assignor.)

Standard Oil Company. (See Loane, C. M., and Shoemaker, assignors.)

Standard Oil Company. (See Shoemaker, B. H., and Batchelder, assignors.)

Standard Oil Company. (See Shoemaker, B. H., and Loane, assignors.)

Standard Oil Company. (See Voorhees, Vanderveer, assignor.)

Standard Railway Equipment Manufacturing Company. (See Bonsall, Charles D., assignor.)

Standard Railway Equipment Manufacturing Company. (See Gilpin, Garth G., assignor.)

Standard Railway Equipment Manufacturing Company. (See Zeidler, Kurt E., assignor.)

Standard Railway Refrigerator Company. (See Baillie, Wallace E., assignor.)

Star Expansion Bolt Company. (See Hungerford, Daniel C., assignor.)

Stärk, Hermann. (See Nuesslein, J., von Finck, and Stärk.)

Stator Corporation. (See Whitney, Lyman F., assignor.)

Staude, Edwin G., assignor of one-half to O. B. Staude, Minneapolis, Minn. Obtaining and controlling fluid pressure. 2,168,719; Aug. 8.

Staude, Olive B. (See Staude, Edwin G., assignor.)

Stebbing, John N., Jr., Washington, D. C. Life saving device. 2,169,142; Aug. 8.

Steenstrup, Christian, Schenectady, N. Y., assignor to General Electric Company. Refrigerator. 2,169,115; Aug. 8.

Stehnbacher, Karl, Portsmouth, Ohio. Cinder notch cooler. 2,169,060; Aug. 8.

Stehner, Joseph, Willimantic, Conn. Stretch roll. 2,169,169; Aug. 8.

Stehlhauer, William L., assignor to Cen-Tennial Cotton Gin Co., Columbus, Ga. Adjustable discharge slide for cotton feeders. 2,168,500; Aug. 8.

Stevens, Eugene J., and J. A. Heldbrink, Minneapolis, Minn., assignors to The Ohio Chemical and Manufacturing Company, Cleveland, Ohio. Tank stabilizer for anesthetizing machines. 2,169,082; Aug. 8.
Stevens, Joseph R. (See Weijlard, J., and Stevens.)
Stewart-Warner Corporation. (See Davis, Ernest W., assignor.)
Stienen, Ernest A., New York, N. Y. Apparatus for drying warps of textiles. 2,168,456; Aug. 8.
Stokes and Smith Company. (See Rider, Ernest G., assignor.)
Stokes, F. J., Machine Company. (See Westin, Charles J., assignor.)
Stoyanowski, Steve, Astoria, Long Island, N. Y. Sewing machine guard. 2,168,501; Aug. 8.
Strasser, Max, assignor to Gebrüder Strasser, Erfurt, Germany. Tooth brush. 2,168,964; Aug. 8.
Strauss, Oscar A., Milwaukee, Wis. Medicinal preparation. 2,168,657; Aug. 8.
Strecker, Felix, Berlin-Siemensstadt, and H. Kimmel, Berlin-Charlottenburg, assignors to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Transmission system. 2,168,589; Aug. 8.
Strother, John A., Darien, assignor to Pitney-Bowes Postage Meter Co., Stamford, Conn. Postage meter counter lock. 2,168,457; Aug. 8.
Stucki, A. (See Severn, Arthur B., assignor.)
Stull, John S. (See Wensley, E., and Stull.)
Sturmey-Archer Gears Limited. (See Brown, William, assignor.)
Sullivan Machinery Company. (See Reilly, John L., assignor.)
Sullivan, Michael B., Spokane, Wash. Seat guard. 2,168,919; Aug. 8.
Sundback, Gideon, assignor to Talon, Inc., Meadville, Pa. Manufacturing separable fasteners. 2,169,177; Aug. 8.
Sundback, Gideon, assignor to Talon, Inc., Meadville, Pa. Machine for making fastener stringers. 2,169,178; Aug. 8.
Super Diesel Tractor Corporation. (See Scott, Philip L., assignor.)
Swartz, William L., Wethersfield, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Automatic firearm. 2,169,083; Aug. 8.
Swartz, William L., Wethersfield, assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn. Firearm. 2,169,084; Aug. 8.
Sweigart, Frank T., Port Washington, N. Y. Valve grinder. 2,168,458; Aug. 8.
Symons, James E. and J. W., Monessen, Pa. Brake. 2,168,371; Aug. 8.
Symons, Jesse W. (See Symons, James E. and J. W.)
Tabb, Warner T., Brooklyn, assignor to Eisemann Magneto Corporation, New York, N. Y. Centrifugal governor. 2,168,372; Aug. 8.
Takamine Ferment Company. (See George, Henry, III, assignor.)
Taige, Foster L. (See Lee, Harry A., assignor.)
Talon, Inc. (See Banning, Frederick D., assignor.)
Talon, Inc. (See Poux, Noel J., assignor.)
Talon, Inc. (See Sundback, Gideon, assignor.)
Tanning Process Company, The. (See Hyde, H. W., and Edgar, assignors.)
Taylor, Harry. (See Smith, H., and Taylor.)
Taylor, Hugh S., Princeton, N. J., assignor to The M. W. Kellogg Co., New York, N. Y. Catalytic alkylation of aromatic hydrocarbons. 2,168,590; Aug. 8.
Teague, Walter D., New York, and D. A. Young, Jr., assignors to Eastman Kodak Company, Rochester, N. Y. Still projector. 2,169,010; Aug. 8.
Tefi-Apparatebau Dr. Daniel K.-G. (See Daniel, Karl, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Berndt, Walter, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Geiger, Max., assignor.)
Telephon-Apparat Fabrik E. Zwietusch and Company. (See Döhle, H., and Langner, assignors.)
Textile Machine Works. (See Richter, Max, assignor.)
Thomas, Edwin H., Newark, Del., assignor to Bond Manufacturing Corporation, Inc. Method and apparatus for extruding materials. 2,168,889; Aug. 8.
Thomas, Pacific J., assignor to U. S. Textile Machine Co., Scranton, Pa. Stop motion device. 2,169,170; Aug. 8.
Thomas, Raymond E., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dull finish cellulose derivative coating. 2,169,199; Aug. 8.
Thomas, William, assignor to The Waterbury Tool Company, Waterbury, Conn. Power transmission pump or motor. 2,168,658; Aug. 8.
Thompson, Charles F., Dumbarton, Va. Selector mechanism for electrical roll call or voting apparatus. 2,168,373; Aug. 8.
Thompson, Harris A., Schenectady, N. Y., assignor to General Electric Company. Product meter. 2,169,116; Aug. 8.
Thompson, Leslie E. (See Williams, A. L., and Thompson.)
Thompson, Margaret A., executrix. (See Thompson, Warren R.)
Thompson, Warren R., deceased, New York, N. Y.; M. A. Thompson, executrix. Method of and apparatus for the pressure treatment of parts of the human body. 2,168,611; Aug. 8.
Thor, Clifford J. B., assignor to The Visking Corporation, Chicago, Ill. Chemical compounds and products produced therefrom. 2,168,374; Aug. 8.
Thor, Clifford J. B., assignor to The Visking Corporation, Chicago, Ill. Chitin xanthate. 2,168,375; Aug. 8.
Tiffault, Emory P., Ballston Spa, N. Y. Bottle-cap remover. 2,168,832; Aug. 8.
Timken-Detroit Axle Company, The. (See Buckendale, Lawrence R., assignor.)
Timken Roller Bearing Company. (See Edwards, Herbert C., assignor.)
Tinnerman, Albert H. (See Tinnerman, George A., assignor.)
Tinnerman, George A., Rocky River, assignor to A. H. Tinnerman, Cleveland, Ohio. Bolt fastening device and the like. 2,168,721; Aug. 8.
Tischer, Arthur O. (See Hickman, K. C. D., and Tischer.)
Titanium Alloy Manufacturing Company, The. (See Comstock, George F., assignor.)
Titanium Alloy Manufacturing Company, The. (See Kinzie, C. J., and Hake, assignors.)
Todé, William F. (See Reynolds, A. T., and Todé.)
Tondreau, Albert W., Glendale, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y. Continuous film-treating apparatus. 2,169,061; Aug. 8.
Torres, Pastor R., Mandaluyong, Rizal, P. I. Gearing for bicycles. 2,169,171; Aug. 8.
Towler, Frank H. (See Towler, John M. and F. H.)
Towler, John M. and F. H., Yorkeshire, England. Reciprocating ram pump. 2,168,850; Aug. 8.
Townsend, Charles S., Ealing, assignor to Wellesley Holdings Limited, London, England. Production of predigested vegetable foodstuff for animals. 2,168,722; Aug. 8.
Trabon Engineering Corporation. (See Hillis, David R., assignor.)
Trachsel, Fritz, Bumpliz-Bern, Switzerland. Recording device. 2,168,965; Aug. 8.
Traders Oil Mill Company. (See McMath, C. W., and Roots, assignors.)
Transatlantic Factors Inc. (See Biller, Hans, assignor.)
Trautvetter, George, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Molding. 2,169,172; Aug. 8.
Tremblay, Albert F., assignor to Kent-Owens Machine Company, Toledo, Ohio. Apparatus for gathering and forming glass. 2,168,833; Aug. 8.
Trion Company, The. (See Dunn, Carl L., assignor.)
Triplett, Ray L., Bluffton, Ohio. Illuminating instrument dial. 2,168,720; Aug. 8.
Trisco Products, Inc. (See Bauer, David M., assignor.)
Tronnier, Albrecht W., Gottingen, S. Roeschlein, Bad Kreuznach, and E. Lescher, Gottingen, assignors to Jos. Schneider & Co. Optische Werke, Bad Kreuznach, Germany. Magnifying lens attachment for objectives. 2,169,130; Aug. 8.
Troxel Manufacturing Company, The. (See Linder, A. J., and Kalter, assignors.)
Tschappat, Sheridan P., Tulsa, Okla. Tubing head. 2,168,591; Aug. 8.
Turner, Hubert S., New York, N. Y. Automatic electric control for liquid burners. 2,169,077; Aug. 8.
Tweedale, Ralph L. (See Rose, E. L., and Tweedale.)
Twin Disc Clutch Company. (See Morris, Donald W., assignor.)
Twyman, B. Wickliffe, assignor to Lavine Gear Company, Milwaukee, Wis. Steering gear. 2,168,659; Aug. 8.
Tyson, Miller S., Canton, Ohio. Awning. 2,168,811; Aug. 8.
Uhler, Frank G., Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Dull finish coated fabric and making the same. 2,169,200; Aug. 8.
Underwood Elliott Fisher Company. (See Dobson, William A., assignor.)
Underwood Elliott Fisher Company. (See Pitman, Henry L., assignor.)
Uksila, William J., Spokane, Wash. Air control device. 2,168,690; Aug. 8.
Uniflow Pump Company. (See Murray, Howard S., assignor.)
Union Oil Company of California. (See Nelles, Maurice H., assignor.)
Union Switch & Signal Company, The. (See Agnew, Norman F., assignor.)
Union Switch & Signal Company, The. (See Bono, Herbert L., assignor.)
Union Switch & Signal Company, The. (See Grammer, James I., assignor.)
Union Switch & Signal Company, The. (See Pelikan, John M., assignor.)
Union Switch & Signal Company, The. (See Pflasterer, George R., assignor.)
Union Switch & Signal Company. (See Williams, A. L., and Thompson, assignors.)
Union Switch & Signal Company, The. (See Young Henry S., assignor.)
United Aircraft Corporation. (See Willgoos, Andrew V. D., assignor.)
United Aircraft & Transport Corporation, The. (See Beisel, R. B., and MacClain, assignors.)
United Autographic Register Co. (See Schaefer, John E., assignor.)

United Cotton Products Company. (See Hurst, E., and Crane, assignors.)
United Shoe Machinery Corporation. (See Corson, Fred L., assignor.)
United Shoe Machinery Corporation. (See Finn, Sidney J., assignor.)
United Shoe Machinery Corporation. (See Fossa, Joseph, assignor.)
United Shoe Machinery Corporation. (See Gouldbourn, J., and Kestell, assignors.)
United Shoe Machinery Corporation. (See Lyness, Horatio S., assignor.)
United Shoe Machinery Corporation. (See Pratt, John W., assignor.)
United Shoe Machinery Corporation. (See Smith, L. G., and Bertrand, assignors.)
United States of America, as represented by Secretary of War. (See Holmes, H. B., Blood, and Bell, assignors.)
United States Gypsum Company. (See Page, John, assignor.)
United States Rubber Company. (See Battin, Harold T., assignor.)
United States Rubber Company. (See Cady, John E., assignor.)
United States Rubber Company. (See Gammeter, John R., assignor.)
United States Rubber Company. (See Ringler, William A., assignor.)
United States Rubber Company. (See Way, Thomas H., assignor.)
U. S. Slicing Machine Company. (See Ahrndt, Arthur H., assignor.)
U. S. Textile Machine Co. (See Thomas, Pacific J., assignor.)
Universal Appliance Co. (See Lofgren, H. A., and Celmer, assignors.)
"Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Co. (See Röber, C. F., and Röthig, assignors.)
Upson, Maxwell M., Englewood, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y. Composite pile with H-beam. 2,168,459; Aug. 8.
Utah Royalty Corporation. (See Rider, Rowland W., assignor.)
Utermöhlen, Gerhard P., Amsterdam, assignor to Nederlandsche Maatschappij "Sogedio" N. V., The Hague, Netherlands. Self-leveling head support. 2,169,117; Aug. 8.
Vallandingham, James, Jerome, Ariz. Headlight. 2,168,834; Aug. 8.
Van Derhoef, Henry E. (See Babcock, D. A., and Van Derhoef.)
Van der Meulen, Peter A., and D. Levowitz, New Brunswick, N. J. Producing butter. 2,168,376; Aug. 8.
Vanderveld, Anthony, Grand Rapids, Mich. Gear shifting mechanism. 2,168,592; Aug. 8.
Vanderveld, Anthony, Grand Rapids, Mich. Gear shifting mechanism. 2,169,034; Aug. 8.
Van Es, Adriaan C., Huizen, assignor to N. V. Maatschappij Voor Zwavelzuurbereiding Voorheen G. T. Ketjen & Co., Amsterdam, Netherlands. Extracting ores and the like. 2,168,542; Aug. 8.
Van Keuren, Henry P., Watertown, Mass. Hand tool. 2,168,812; Aug. 8.
Veazey, Marion H., Rutherford, assignor to The Patent and Licensing Corporation, New York, N. Y. Making artificially colored granules. 2,168,593; Aug. 8.
Veitch, Thomas, Allenhurst, N. J. Advertising display mechanism. 2,168,723; Aug. 8.
Velten, Hubert J. (See Ziebolz, H., and Velten.)
Vergobbi, John G., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass. Container forming machine. 2,168,543; Aug. 8.
Very, William R. M., Haddonfield, N. J., assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigerator construction. 2,169,201; Aug. 8.
Vidal, Charles H., London, England. Cleaning apparatus. 2,168,692; Aug. 8.
Vinding, Laura R., Vineland, N. J. Folding table. 2,168,813; Aug. 8.
Visking Corporation, The. (See Thor, Clifford J. B., assignor.)
Von Finck, Georg. (See Nuesslein, J., von Finck, and Stürk.)
Von Pein, Edward J., Endicott, assignor to International Business Machines Corporation, New York, N. Y. Machine operating on record cards. 2,168,434; Aug. 8.
Von Till, Louis A., East Rockaway, assignor to Anchor Cap & Closure Corporation, New York, N. Y. Closure cap. 2,168,594; Aug. 8.
Voorhees, Vanderveer, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill. Gasoline refining. 2,168,691; Aug. 8.
Wachsman, Jacob and M., Brooklyn, N. Y. Stop mechanisms for knitting machines. 2,168,754; Aug. 8.
Wachsman, Michael. (See Wachsman, Jacob and M.)
Wachsman, Michael, Brooklyn, N. Y. Fabric contacting circuit closer for knitting machines. 2,168,755; Aug. 8.
Wagers, Beverly T., Bond, assignor of three-fourths to E. E. Edwards, Irvine, Ky. Internal combustion engine. 2,168,502; Aug. 8.
Waite Carpet Company. (See Beck, August, assignor.)
Waite, Wilfred, London, England, assignor to American Machine & Foundry Company, New York, N. Y. Bronzing and the like. 2,169,078; Aug. 8.
Wald Mfg. Co. (See Pawsat, Ewald F., assignor.)
Wales, George F., Kenmore, N. Y. Punching and stripping mechanism for presses. 2,168,377; Aug. 8.
Walker Manufacturing Company. (See Mizer, Joseph J., assignor.)
Wallace, James A., Spokane, Wash. Door holder. 2,168,635; Aug. 8.
Walter, Charles T., assignor to Industrial Patents Corporation, Chicago, Ill. Sausage linker. 2,168,693; Aug. 8.
Wangerin, Elmer O. (See Hopkins, R. S., and Wangerin.)
Wardwell, George W., Jr., Nichols, Conn., assignor to General Electric Company. Coating for heated surfaces. 2,169,118; Aug. 8.
Warner Bros. Pictures, Inc. (See Adams, L. J., and Bracken, assignors.)
Warner Bros. Pictures, Inc. (See Haskin, Byron C., assignor.)
Warner Bros. Pictures, Inc. (See Tondreau, Albert W., assignor.)
Waterbury Tool Company, The. (See Rose, Edwin L., assignor.)
Waterbury Tool Company, The. (See Rose, E. L., and Tweedale, assignors.)
Waterbury Tool Company, The. (See Thomas, William, assignor.)
Watson, Glenn W., Binghamton, assignor to International Business Machines Corporation, New York, N. Y. Signaling system. 2,168,460; Aug. 8.
Watson, Paul A., Pasadena, Calif. Food product and producing the same. 2,168,724; Aug. 8.
Way, Thomas H., Montreal, Quebec, Canada, assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Surface-treating labeled articles. 2,169,062; Aug. 8.
Wayne Pump Company, The. (See Chaplin, John H., assignor.)
Webb, Jervis B., Royal Oak, and N. H. Preble, Grosse Pointe, assignors to Jervis B. Webb Company, Detroit, Mich. Caterpillar drive for conveyers. 2,168,852; Aug. 8.
Webb, Jervis B., Company. (See Webb, J. B., and Preble, assignors.)
Weijlard, John, and J. R. Stevens, assignors to Merck & Co., Inc., Rahway, N. J. Preparing derivatives of halogenated sterols and the products thus obtained. 2,168,379; Aug. 8.
Weiss, Harry, New York, N. Y. Cardiac recording apparatus. 2,168,890; Aug. 8.
Weller, Charles A. (See Geyer, W. O., and Weller.)
Wellesley Holdings Limited. (See Townsend, Charles S., assignor.)
Wells, Gilbert A., New London, Wis. Variable-speed pulley for V-belt drives. 2,168,835; Aug. 8.
Wengel, Raymond W., assignor to Eastman Kodak Company, Rochester, N. Y. Motion picture apparatus. 2,169,011; Aug. 8.
Wensley, Earl, and J. S. Stull, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y. Apparatus for assembling parts. 2,169,063; Aug. 8.
West, Herbert J., Mount Lebanon, and A. O. Jaeger, Greentree, Pa., assignors to American Cyanamid & Chemical Corporation, New York, N. Y. Esterification of organic acids. 2,169,012; Aug. 8.
Western Electric Company. (See Bidwell, Edgar M., assignor.)
Western Electric Company. (See Price, Stanley, assignor.)
Western Electric Company. (See Wensley, E., and Stull, assignors.)
Westin, Charles J., assignor to F. J. Stokes Machine Company, Philadelphia, Pa. Sealing collapsible tubes. 2,169,173; Aug. 8.
Westinghouse Electric & Manufacturing Company. (See Aalborg, Christian, assignor.)
Westinghouse Electric & Manufacturing Company. (See Bahls, Walter E., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baker, Rest R., assignor.)
Westinghouse Electric & Manufacturing Company. (See Baudry, René A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Beers, George L., assignor.)
Westinghouse Electric & Manufacturing Company. (See Blackburn, Phillip W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Brace, Porter H., assignor.)
Westinghouse Electric & Manufacturing Company. (See Chubb, Lewis W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Dawson, John W., assignor.)
Westinghouse Electric & Manufacturing Company. (See Elberty, Robert S., Jr., assignor.)
Westinghouse Electric & Manufacturing Company. (See Forbes, Allan D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Gulliksen, Finn H., assignor.)
Westinghouse Electric & Manufacturing Company. (See James, Robert F., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kelly, James M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Kilgore, Lee A., assignor.)
Westinghouse Electric & Manufacturing Company. (See Leippe, Richard M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Michel, Mathias, assignor.)
Westinghouse Electric & Manufacturing Company. (See Slepian, Joseph, assignor.)
Westinghouse Electric & Manufacturing Company. (See Snyder, Franklin L., assignor.)
Westinghouse Electric Elevator Company. (See Williams, Harold W., assignor.)
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Automatic selectivity control. 2,168,461; Aug. 8.
Whelan, John J., Washington, D. C. Building construction. 2,168,725; Aug. 8.
Wheler, Arthur G., and M. J. Roznowski, assignors of one-half to S. A. Scobell, Syracuse, N. Y. Liquid dispensing system. 2,168,636; Aug. 8.
White, Ellis R. (See Yabroff, D. L., and White.)
Whitehurst, George W., Portsmouth, Va. Thermostat. 2,168,836; Aug. 8.
Whitney, Lyman F., Cambridge, Mass., assignor, by mesne assignments, to Stator Corporation. Shelf arrangement. 2,168,544; Aug. 8.
Whittle, Frank, Trumpington, England. Propulsion of aircraft and gas turbines. 2,168,726; Aug. 8.
Whitwell, Arthur, assignor to The Emerson Optical & Mfg. Co. Ltd., London, England. Optical instrument. 2,168,637; Aug. 8.
Wiggins, John H., and D. E. Larson, Chicago, Ill., assignors of one-half to said Wiggins and one-half to Chicago Bridge & Iron Company. Control mechanism for gas and liquid storage apparatus. 2,168,891; Aug. 8.
Wile, Daniel D., assignor to Detroit Lubricator Company, Detroit, Mich. Control device. 2,168,545; Aug. 8.
Wile, Daniel D. (See Dillman, E. J., and Wile.)
Wilkens, George A. (See Fields, C. M., and Wilkens.)
Wilkerson, Daniel C., assignor to General Motors Corporation, Detroit, Mich. Chemical plating. 2,168,638; Aug. 8.
Willgoos, Andrew V. D., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Reduction gear. 2,168,814; Aug. 8.
Williams, Albert L., and L. E. Thompson, London, England, assignors, by mesne assignments, to Union Switch & Signal Company, Swissvale, Pa. Manufacture of alternating current rectifiers of the dry-contact type. 2,168,462; Aug. 8.
Williams, Harold W., Englewood, N. J., assignor to Westinghouse Electric Elevator Company, Chicago, Ill. Elevator control system. 2,169,035; Aug. 8.
Williams, John E., Merced, Calif. C clamp. 2,169,064; Aug. 8.
Williamson, James W., Greenwich, Conn. Photographic enlargement device. 2,168,503; Aug. 8.
Wills, Noble G., Connersville, Ind. Preparing dentures. 2,168,546; Aug. 8.
Wilson, Herbert R. D., et al. (See Glidden, Charles C., assignor.)
Winkler, Fritz. (See Giller, E., and Winkler.)
Winograd, Harold, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Electric valve protective system. 2,169,202; Aug. 8.
Winthrop Chemical Company. (See Bockmühl, M., and Ehrhardt, assignors.)
Winthrop Chemical Company. (See Bockmühl, M., and Hermann, assignors.)
Winton, Lewis B., Greenwich, Conn., assignor to American Sealcone Corporation, New York, N. Y. Container filling apparatus. 2,168,380; Aug. 8.
Wissmann, Ludwig, Baltimore, Md. Letter card. 2,168,920; Aug. 8.
Wittel, Otto, assignor to Eastman Kodak Company, Rochester, N. Y. Photographic apparatus. 2,169,013; Aug. 8.
Wolfe, John W., administrator. (See Lincoln, B. H., and Henricksen.)
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Page pasting mechanism. 2,168,547; Aug. 8.
Wood, Henry A. W., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Stereotype plate finishing and cooling machine. 2,168,548; Aug. 8.
Wood, Morris B., Newbury, assignor to The Chase-Shawmut Company, Newburyport, Mass. Fusible circuit interrupter. 2,168,815; Aug. 8.
Wood Newspaper Machinery Corporation. (See Wood, Henry A. W., assignor.)
Woodford, Watson H., Bridgeport, Conn., assignor to Remington Arms Company, Inc. Lead manufacture. 2,168,381; Aug. 8.
Worthington Pump and Machinery Corporation. (See Grace, John F., assignor.)
Wunsch, Joseph W., Brooklyn, N. Y. Sheave device for derricks. 2,168,463; Aug. 8.
Yabroff, David L., Berkeley, and E. R. White, Albany, assignors to Shell Development Company, San Francisco, Calif. Removal of mercaptans from mercaptide solutions. 2,168,851; Aug. 8.
Yale & Towne Manufacturing Company, The. (See Schroeder, Charles S., assignor.)
Yamagoshi, Choshichi. (See Yeda, Shuzo, assignor.)
Yeaman, Bruce M., Glendale, Calif. Rabbit feeder. 2,168,639; Aug. 8.
Yeda, Shuzo, assignor to C. Yamagoshi, Tokyo, Japan. Roentgenometer. 2,168,464; Aug. 8.
York, Lantrip M., Lake Charles, La. Oil well rig. 2,168,837; Aug. 8.
Youmans, William J., Fort Thomas, Ky. Coin holder. 2,168,504; Aug. 8.
Young, D'Arcy A. (See Teague, W. D., and Young.)
Young, Fred M., Racine, Wis. Core fin binder strip. 2,168,549; Aug. 8.
Young, Henry S., Wilkinsburg, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway signaling. 2,168,816; Aug. 8.
Zachs, Jennie R., Hartford, Conn. Ruling instrument. 2,168,694; Aug. 8.
Zaidan Hojin Rikagaku Kenkyujo. (See Miyata, Akira, assignor.)
Zamorski, Frank, et al. (See Reenstierna, Gustaf L., assignor.)
Zeidler, Kurt E., Pittsburgh, Pa., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Refrigerator car floor rack. 2,168,595; Aug. 8.
Zenewich, Joseph, Chicago, Ill. Wallpaper placement and aligning means. 2,168,505; Aug. 8.
Zerweck, Werner, and E. Heinrich, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Dyestuffs of the anthraquinone series. 2,168,947; Aug. 8.
Ziebolz, Herbert, and H. J. Velten, Chicago, Ill., assignors to Askania-Werke A. G. Method of and apparatus for controlling the flow of fluids. 2,169,174; Aug. 8.
Ziebolz, Herbert, and H. J. Velten, Chicago, Ill., assignors to Askania-Werke A. G. Method of and apparatus for controlling the flow of fluids. 2,169,175; Aug. 8.
Zimmerman, Percy W., and A. E. Hitchcock, assignors to Boyce Thompson Institute for Plant Research, Inc., Yonkers, N. Y. Solution for propagation of plants. 2,168,550; Aug. 8.
Zull, Frederick M., Valley Stream, N. Y. Denture. 2,168,967; Aug. 8.
Zworykin, Vladimir K., Philidelphia, Pa., assignor to Radio Corporation of America. Cathode ray device. 2,168,892; Aug. 8.
Zylo Ware Corporation. (See Shyer, Joseph, assignor.)

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Conveyer, Continuous. A. F. White. Re. 21,172; Aug. 8.
Mounting for Venetian blinds. H. K. Lorentzen. Re. 21,174; Aug. 8.
Spike for golf shoes. C. W. Fuller. Re. 21,173; Aug. 8.
Tire and tool carrying compartment in trucks. F. Biszantz. 21,171; Aug. 8.

LIST OF PLANT INVENTIONS

Poinsettia. P. Ecke. 336. Aug. 8.
Rose plant. C. Mallerin. 337. Aug. 8.

LIST OF DESIGN INVENTIONS

Airplane. C. L. Johnson. 116,094; Aug. 8.
Antenna or the like, Radio. A. T. Mace. 116,080; Aug. 8.
Bag, Combined water and ice. R. W. Albright. 116,004; Aug. 8.
Bar, Transparent. D. P. Whelan. 116,073; Aug. 8.
Bench or similar article of furniture, Folding. A. H. Leissing. 116,037; Aug. 8.
Blotter and penholder, Combined rotary. L. Grünzweig. 116,025; Aug. 8.
Boot, Fisherman's wading. R. Bartlett. 116,009; Aug. 8.
Bottle and closure therefor, Combined. J. D. Buckingham. 116,016; Aug. 8.
Bottle or similar article, Perfume. J. D. Buckingham. 116,017; Aug. 8.
Bottle, Perfume. H. Jacknick. 116,032; Aug. 8.
Bottle, Perfume. E. Schiaparelli. 116,055; Aug. 8.
Bowling alley. L. J. Kelly. 116,035; Aug. 8.
Bracelet. A. Philippe. 116,091; Aug. 8.
Brooch or similar article. A. Katz. 116,095–6; Aug. 8.
Brooch or similar article. A. Philippe. 116,088–90; Aug. 8.
Brush or similar article. J. Weil. 116,072; Aug. 8.
Bumper guard, Automobile. M. D. Walklet. 116,070–1; Aug. 8.
Cabinet for toilet seat covers, Dispensing. J. E. Maurer. 116,042; Aug. 8.
Cabinet, Infant's utility. C. V. Hammond. 116,026; Aug. 8.
Cabinet or similar article, Radio. J. R. Jackson. 116,077; Aug. 8.
Cabinet or similar article, Radio. J. R. Jackson. 116,079; Aug. 8.
Cabinet, Refrigerating display. L. F. Clerc. 116,020–2; Aug. 8.
Cabinet, Washing machine. H. D. Brotman. 116,012; Aug. 8.
Can opener. J. H. Horstman. 116,031; Aug. 8.
Case and mirror, Combined lipstick. A. R. Botham. 116,010; Aug. 8.
Casing, Heater. C. E. Meyerhoefer. 116,045; Aug. 8.
Clip for window blinds or the like, Pull-cord. W. M. Jones. 116,033; Aug. 8.
Clip, Pen and pencil. L. H. Ashmore. 116,005; Aug. 8.
Clip, Pin. A. Philippe. 116,081–7; Aug. 8.
Clip, Pin. A. Philippe. 116,105–7; Aug. 8.
Clip, Pin. A. Philippe. 116,099–100; Aug. 8.
Clock or similar article. M. Stern. 116,062; Aug. 8.
Coat. B. Chalk. 116,019; Aug. 8.
Coat. M. D. Metzger. 116,044; Aug. 8.
Coat. M. Smithken. 116,061; Aug. 8.
Coat. H. Zuckerman. 116,075–6; Aug. 8.
Collar, Fur. A. Rauch. 116,050–1; Aug. 8.
Collar, Fur. J. A. Silverman. 116,057; Aug. 8.
Comb. P. S. Madsen. 116,039; Aug. 8.
Container for perfume bottles. H. Worth and S. T. Phillips. 116,074; Aug. 8.
Coupler or similar article, Trailer. B. G. Harley. 116,027; Aug. 8.
Cuff link or similar article. G. W. Headley, 3d. 116,029; Aug. 8.
Dish or article of similar nature, Glass jelly. T. C. Heisey. 116,030; Aug. 8.
Drawing instrument, Combination. P. J. Bakallie. 116,007–8; Aug. 8.
Dress. H. Berry. 116,111; Aug. 8.
Dress. E. Cutler. 116,113; Aug. 8.
Dress. A. Geller. 116,115; Aug. 8.
Dress. R. E. Knapp. 116,120–1; Aug. 8.
Dress. S. J. Poster. 116,116; Aug. 8.
Dress. K. Rost. 116,117; Aug. 8.
Dress. A. Ruchman. 116,125; Aug. 8.
Dress. P. Schlessel. 116,118; Aug. 8.
Dress. B. Shapiro. 116,126; Aug. 8.
Dress ensemble. S. Kuznetz. 116,122–3; Aug. 8.
Dress ensemble. S. Novak. 116,124; Aug. 8.
Fabric or similar article, Textile. M. Christen. 116,104; Aug. 8.
Fabric or similar article, Textile. M. Turpan. 116,101; Aug. 8.
Fabric or similar article, Textile. A. Zavell. 116,102; Aug. 8.
Fabric or similar article, Textile. M. Turpan. 116,119; Aug. 8.
Fabric or similar article, Textile. M. Turpan. 116,129; Aug. 8.
Fabric, Textile. A. Tillman. 116,109; Aug. 8.
Fabric, Textile. N. Tillman. 116,128; Aug. 8.
Fabric, Tucked. B. Beidner. 116,103; Aug. 8.
Garment, Foundation. H. Wipperman. 116,110; Aug. 8.
Generator unit, Engine driven electric. J. H. Jacobs. 116,078; Aug. 8.
Goggle. E. J. Bux. 116,038; Aug. 8.
Handbag or similar article, Lady's. M. C. L. Baillod. 116,006; Aug. 8.
Harmonica. J. Yassos. 116,067–9; Aug. 8.
Head for a hand mirror or similar article. L. Marder. 116,040–1; Aug. 8.
Heater. C. E. Meyerhoefer. 116,046–7; Aug. 8.
Holder, Cigarette. P. F. Havey. 116,028; Aug. 8.
Holder, Drill. W. P. Ross. 116,054; Aug. 8.
Holder, Flower. P. T. Shirk. 116,056; Aug. 8.
Iron or similar article, Waffle. E. S. Preston. 116,127; Aug. 8.
Jar. O. C. Noble. 116,048; Aug. 8.
Lighting fixture or similar article. L. L. Stewart. 116,063; Aug. 8.
Mask and respirator, Combined. H. M. Dodge and H. T. Kraft. 116,023; Aug. 8.
Measuring device. D. M. Noth. 116,049; Aug. 8.
Mirror and support therefor, Combined rear view. O. C. Ritz-Woller. 116,053; Aug. 8.
Pen barrel, Fountain. K. S. Parker and M. S. Baker. 116,098; Aug. 8.
Pen, Fountain. K. S. Parker and M. S. Baker. 116,097; Aug. 8.
Pillowcase. T. Rembrecht. 116,108; Aug. 8.
Pin. J. B. Stinson. 116,064–5; Aug. 8.
Plate or similar article. V. Skellern. 116,060; Aug. 8.
Plug for bathtubs, sinks and the like. E. Gassman. 116,024; Aug. 8.
Radio and advertising display, Combined. L. F. Van Schuck. 116,093; Aug. 8.
Rug. W. Brown. 116,014–15; Aug. 8.
Skirt or similar article. S. H. Geffner. 116,114; Aug. 8.
Slipper. C. J. Simonetti. 116,058–9; Aug. 8.
Stand, Display. W. J. Bovers. 116,011; Aug. 8.
Stand, Display. E. J. McGarry. 116,043; Aug. 8.
Stopper and fingernail polish brush, Combined. M. C. Twomey. 116,066; Aug. 8.
Tank, Elevated. J. A. Rau. 116,052; Aug. 8.
Telescope. L. H. Brown. 116,013; Aug. 8.
Tool, Scribing. M. M. Cathcard. 116,018; Aug. 8.
Toy dog. H. E. Kelly. 116,034; Aug. 8.
Toy wagon. H. L. Kraeft. 116,036; Aug. 8.
Tractor, Industrial. C. W. Sundberg and M. Ferar. 116,092; Aug. 8.
Truck, Rail car. R. J. Burrows and A. O. Williams. 116,112; Aug. 8.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 8TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrading tool. T. M. Schupp. 2,168,497; Aug. 8.
Absorption process. P. M. Raigorodsky. 2,168,683; Aug. 8.
Acid, Production of glutaric. M. H. Nelles. 2,168,844; Aug. 8.
Acids, Esterification of organic. H. J. West and A. O. Jaeger. 2,169,012; Aug. 8.
Acoustical treatment for upholstered structures. T. M. Prudden. 2,168,627; Aug. 8.
Adsorbents, Revivification of spent. H. C. Cowles, Jr., and A. B. Hersberger. 2,168,327; Aug. 8.
Aerial system, Wireless. K. H. Barbour. 2,168,857; Aug. 8.
Agitator for washing machines. C. C. Scheele. 2,168,887; Aug. 8.
Air bubbles from film dope, Removing. E. K. Carver. 2,168,972; Aug. 8.
Air cleaner. E. L. Cloud. 2,168,472; Aug. 8.
Air cleaner. J. C. Evans. 2,168,670; Aug. 8.
Air conditioning. C. F. Beeler. 2,168,614; Aug. 8.
Air control device. W. J. Uksila. 2,168,690; Aug. 8.
Air cooling means for dry rectifiers. G. W. Müller. 2,169,109; Aug. 8.
Air line trap. T. C. Browning, deceased. 2,168,512; Aug. 8.
Air regulating means. R. B. Beisel and A. L. MacClain. 2,168,599; Aug. 8.
Aircraft and gas turbines, Propulsion of. F. Whittle. 2,168,726; Aug. 8.
Alloy: *See*—
  Chromium-titanium-silicon alloy.
  Copper base alloy.
  Sintered hard metal alloy.
Alloys containing aluminum, Soft soldering. G. H. Howe. 2,169,098; Aug. 8.
Aluminum, Producing etched surfaces on. R. B. Mason. 2,168,909; Aug. 8.
Amalgamator. C. A. Hahn. 2,168,619; Aug. 8.
Amplifier system, Electrical. O. W. Greenberg. 2,169,096; Aug. 8.
Ampoule sealing apparatus. O. G. Bennett. 2,168,509; Aug. 8.
Animal shipping box. I. C. Robrahn. 2,169,030; Aug. 8.
Annealing plant. L. Iversen. 2,168,527; Aug. 8.
Annunciator, Radio program. G. Babcock. 2,168,662; Aug. 8.
Antenna, Loop. B. L. Dolbear. 2,169,040; Aug. 8.
Antenna, Variable-length. W. Berndt. 2,168,860; Aug. 8.
Antifriction bearing. R. D. Brouwer. 2,168,469; Aug. 8.
Antifriction bearing. A. R. Spicacci. 2,168,499; Aug. 8.
Antiskid device for automobiles. R. M. Dole. 2,168,440; Aug. 8.
Ant trap. C. J. Himel. 2,168,339; Aug. 8.
Apparatus for assembling parts. E. Wensley and J. S. Stull. 2,169,063; Aug. 8.
Apparatus for drying warps of textiles. E. A. Stienen. 2,168,456; Aug. 8.
Apparatus for making strands. J. W. Olson. 2,168,431; Aug. 2.
Apparatus for separating blanks from sheet material. A. J. Evers. 2,168,401; Aug. 8.
Article of manufacture. J. C. MacIldowie. 2,168,445; Aug. 8.
Automobile-hood lock. M. Carver. 2,168,973; Aug. 8.
Automobile signal. W. Hargrave. 2,168,673; Aug. 8.
Automobile steering wheel. T. M. Ragan. 2,168,961; Aug. 8.
Automotive multiwheel vehicle. L. R. Buckendale. 2,168,970; Aug. 8.
Awning. M. S. Tyson. 2,168,811; Aug. 8.
Baby chair. F. M. Cobb. 2,168,513; Aug. 8.
Bag hook. M. M. Rodin. 2,169,127; Aug. 8.
Bait, Artificial fish. J. A. Arbogast. 2,168,894; Aug. 8.
Baking and cooking oven. K. E. Bemis. 2,168,391; Aug. 8.
Barbeque furnace. K. E. Bemis. 2,168,388; Aug. 8.
Barrette. N. L. Solomon. 2,168,369; Aug. 8.
Bath, Cyanide salt. L. Sarvis. 2,169,008; Aug. 8.
Battery lifter. L. J. Blum. 2,169,119; Aug. 8.
Bearing: *See*—
  Antifriction bearing.
  Side bearing.
  Thrust bearing.
Bed accessory, Invalid. J. A. Johnson. 2,168,649; Aug. 8.
Bed, Collapsible. B. M. Graham. 2,168,982; Aug. 8.
Bed rail connector, Adjustable. D. W. Causey. 2,169,138; Aug. 8.
Bending press, Hydraulic. J. R. Sheppard. 2,169,113; Aug. 8.
Bicycle basket mounting. E. F. Pawsat. 2,168,916; Aug. 8.
Binder, Loose leaf. J. R. Newland. 2,168,802; Aug. 8.
Bit: *See*—
  Rotary drill well bit.
Blades, Making cutting. A. B. Harris. 2,168,406; Aug. 8.
Blank for and making writing pens. L. H. Ashmore. 2,168,311; Aug. 1.
Blanks from sheet material, Separating. A. J. Evers. 2,168,400; Aug. 8.
Blow-out preventer. L. E. Day. 2,168,764; Aug. 8.
Bolt fastening device and the like. G. A. Tinnerman. 2,168,721; Aug. 8.
Book gluing machine. H. Sieb. 2,169,114; Aug. 8.
Books and so forth, Device for binding. H. Fischer. 2,168,865; Aug. 8.
Bottle-cap remover. E. P. Tiffault. 2,168,832; Aug. 8.
Box: *See*—
  Animal shipping box.
  Folding box.
Box machine, Paper. M. H. Sidebotham. 2,168,751; Aug. 8.
Boxes, Making. E. G. Rider. 2,168,422; Aug. 8.
Bracket for shelves, Corner. P. H. Meyer. 2,168,911; Aug. 8.
Bracket for Venetian blinds, Head-bar. H. K. Lorentzen. 2,168,417; Aug. 8.
Brake: *See*—
  Hydraulic brake.
  Vehicle brake.
Brake. R. T. Burnett. 2,168,700; Aug. 8.
Brake. R. A. Goepfrich. 2,168,646; Aug. 8.
Brake. J. S. Irving. 2,168,648; Aug. 8.
Brake. J. E. and J. W. Symons. 2,168,371; Aug. 8.
Brake lever safety device. J. H. Gould. 2,168,567; Aug. 8.
Brake operating mechanism. G. H. Olson, C. F. Schoelm, and H. F. Allen. 2,168,654; Aug. 8.
Brake shoe adjuster. L. S. Bittner. 2,168,950; Aug. 8.
Braking system, Fluid pressure. A. R. Leukhardt. 2,168,748; Aug. 8.
Broiler, Electric. H. A. Lee. 2,168,604; Aug. 8.
Bronzing and the like. W. Waite. 2,169,078; Aug. 8.
Bucket control, Drag. L. Berner. 2,168,643; Aug. 8.
Buckle for straps. C. B. Breenberg. 2,168,521; Aug. 8.
Buff, Ventilated. L. M. Hague. 2,168,871; Aug. 8.
Building construction. J. J. Whelan. 2,168,725; Aug. 8.
Bumper, Automobile safety. M. A. Lewis. 2,168,908; Aug. 8.
Butter, Producing. P. A. van de Meulen and D. Levowitz. 2,168,376; Aug. 8.
Bypass valve. F. R. Goehring. 2,169,043; Aug. 8.
C clamp. J. E. Williams. 2,169,064; Aug. 8.
Cable: *See*—
  Electric cable.
Cable clamp, Service entrance. E. H. Rugg. 2,169,111; Aug. 8.
Cable plug in sleeves. H. Baillard and V. B. Pike. 2,168,757; Aug. 8.
Cable system, Electric. C. E. Bennett. 2,168,858; Aug. 8.
Cage and feeder structure for poultry, Combined. L. Hawkins. 2,169,144; Aug. 8.
Camera. T. M. Aiken. 2,168,893; Aug. 8.
Camera-bellows-forming machine. E. J. Hornung. 2,169,205; Aug. 8.
Camera, Double exposure prevention. J. Christie. 2,168,974; Aug. 8.
Camera shutter setting and film winding mechanism. J. Mihalyi. 2,169,001; Aug. 8.
Camera shutter tester. J. D. Kelley. 2,168,994; Aug. 8.
Candy stick machine and making. B. A. Sennett, Sr. 2,168,963; Aug. 8.
Cap: *See*—
  Closure cap.
Cap and method of making, Closure. J. C. Gibbs. 2,168,565; Aug. 8.
Caps, Assembling rectpacle closure. J. A. Johnson. 2,168,409; Aug. 8.
Car: *See*—
  Refrigerator car.
Car floor rack, Refrigerator. K. E. Zeidler. 2,168,595; Aug. 8.
Car wheel, Nonresonant. B. H. Eaton. 2,168,900; Aug. 8.
Carbon formation in metal reaction vessels, Inhibiting. H. P. A. Groll. 2,168,840; Aug. 8.
Carburetor float valve. A. J. Scaife. 2,168,718; Aug. 8.
Carcass tongue protector. N. J. Dziedzic. 2,168,702; Aug. 8.
Carcass tongue protector. A. S. Hartanov. 2,168,708; Aug. 8.
Card, Letter. L. Wissmann. 2,168,920; Aug. 8.
Cardiac recording apparatus. H. Weiss. 2,168,890; Aug. 8.

Carrier: *See*—
  Hay carrier.
  Overhead carrier.
Carton, Carrying. D. J. Bellin. 2,168,387; Aug. 8.
Case: *See*—
  Cigarette case.
Cases, Producing corrugated. A. D. Forbes. 2,169,025; Aug. 8.
Caterpillar drive for conveyers. J. B. Webb and N. H. Preble. 2,168,852; Aug. 8.
Cathode ray device. C. J. Calbick. 2,167,760; Aug. 8.
Cathode ray device. V. K. Zworykin. 2,168,892; Aug. 8.
Cellulose materials, Low density. B. W. Manning. 2,168,531; Aug. 8.
Cellulose xanthate derivatives and artificial materials therefrom, Manufacture of. L. Lilienfeld. 2,169,207; Aug. 8.
Cellulosic composition and preparing same. E. F. Izard. 2,168,348; Aug. 8.
Cellulosic material and preparing same. W. W. Heckert. 2,168,335; Aug. 8.
Cellulosic structure and producing same. W. W. Heckert. 2,168,336; Aug. 8.
Cellulosic structure and preparing same. W. W. Heckert. 2,168,337; Aug. 8.
Cellulose structure and producing same. W. W. Heckert. 2,168,338; Aug. 8.
Chain repair link. C. F. Reynolds. 2,168,539; Aug. 8.
Chair: *See*—
  Baby chair.
Chair base. H. W. Sheldrick. 2,168,810; Aug. 8.
Chair construction. T. W. Foote. 2,169,139; Aug. 8.
Change speed gear, Epicylic. W. Brown. 2,168,600; Aug. 8.
Change speed gear for power vehicles. H. Köhl. 2,168,956; Aug. 8.
Chassis frame for vehicles. F. Bruss. 2,168,436; Aug. 8.
Check valve. E. E. Lindsey. 2,169,052; Aug. 8.
Chemical apparatus. W. O. Geyer and C. A. Weller. 2,169,194; Aug. 8.
Chemical compounds and products produced therefrom. C. J. B. Thor. 2,168,374; Aug. 8.
Chitin xanthate. C. J. B. Thor. 2,168,375; Aug. 8.
Chlorinator. W. C. Blackmond. 2,168,616; Aug. 8.
Chromium-titanium-silicon alloy. G. F. Comstock. 2,169,193; Aug. 8.
Cigar tips, Apparatus for forming. C. F. Röber and E. Röthig. 2,169,166; Aug. 8.
Cigarette case. F. Spitalny. 2,168,918; Aug. 8.
Cigarette mouthpiece. G. Davidson. 2,168,474; Aug. 8.
Cinder notch cooler. K. Steinbacher. 2,169,060; Aug. 8.
Circuit: *See*—
  Electron discharge device Modulation circuit.
  circuit.
Circuit breaker. W. A. Atwood. 2,169,085; Aug. 8.
Circuit closer for knitting machines, Fabric contacting. M. Wachsman. 2,168,755; Aug. 8.
Circuit commutating device. J. L. Defandorf and H. E. Hodgson. 2,169,039; Aug. 8.
Circuit interrupter, Fusible. M. B. Wood. 2,168,815; Aug. 8.
Circular loom. I. Baumgarten. 2,168,385; Aug. 8.
Clamp: *See*—
  C clamp.
  Form clamp.
  Cable clamp.
  Shoe clamp.
  Cloth clamp.
Clamp for track lubricators, Supporting. S. E. Bates. 2,168,554; Aug. 8.
Cleaner: *See*—
  Air cleaner.
  Windshield and window
  Vacuum cleaner.
  cleaner.
Cleaning apparatus. C. H. Vidal. 2,168,692; Aug. 8.
Cleaning machine. G. Gunn, Jr. 2,168,770; Aug. 8.
Clip: *See*—
  Film clip.
  Tie clip.
Clock, Mirror. W. I. Ketterson. 2,169,099; Aug. 8.
Closure cap. L. A. Von Till. 2,168,594; Aug. 8.
Closure for collapsible tubes. E. C. Fink. 2,168,822; Aug. 8.
Cloth clamp. D. Sigmond. 2,168,752; Aug. 8.
Clothes hanger. P. W. Olson. 2,168,361; Aug. 8.
Clothesline reel. H. A. Lofgren and V. Celmer. 2,168,675; Aug. 8.
Clutch mechanism. W. S. Davenport. 2,169,089; Aug. 8.
Clutch mechanism. D. W. Morris. 2,168,960; Aug. 8.
Clutch mechanism, Automatic. O. H. Banker. 2,168,856; Aug. 8.
Clutch operating mechanism. W. B. Paine. 2,168,682; Aug. 8.
Coating, Dull finish cellulose derivative. R. E. Thomas. 2,169,199; Aug. 8.
Coating for heated surfaces. G. W. Wardwell, Jr. 2,169,118; Aug. 8.
Coin holder. W. J. Yonmans. 2,168,504; Aug. 8.
Collar holder. C. Silverman. 2,168,687; Aug. 8.
Collector, Current. E. A. Lapham. 2,169,154; Aug. 8.
Color-comparing device. R. Lawry. 2,168,352; Aug. 8.
Color correction for color photography. M. W. Seymour. 2,169,009; Aug. 8.
Combination lock. J. H. Lane and E. W. North. 2,168,621; Aug. 8.
Combustion means. F. R. Bichowsky. 2,168,313; Aug. 8.
Communication network, Portable electric. H. R. Allensworth. 2,168,310; Aug. 8.
Composition, Fluid. I. M. Colbeth. 2,168,325; Aug. 8.
Compressor. C. W. Albertson. 2,169,131; Aug. 8.
Concrete pump. H. S. Murray. 2,168,779; Aug. 8.
Condenser: *See*—
  Surface condenser.
Connector: *See*—
  Bed rail connector.
  Train line connector.
Connector assembly, Method of. M. Alden. 2,168,382; Aug. 8.
Contactor, Pneumatically operated electric. C. H. Rippl. 2,168,629; Aug. 8.
Container: *See*—
  Dry-sealing container.
Container and detachable pouring spout. F. J. O'Brien. 2,168,607; Aug. 8.
Container and detachable pouring spout. F. J. O'Brien and W. F. Punte. 2,168,608; Aug. 8.
Container and detachable spout. F. J. O'Brien and O. G. Jakob. 2,168,609; Aug. 8.
Container filling apparatus. L. B. Winton. 2,168,380; Aug. 8.
Container forming machine. J. G. Vergobbi. 2,168,543; Aug. 8.
Containers, Iced-cocktail. J. L. Bickerstaff. 2,168,969; Aug. 8.
Contour turning attachment. E. R. Smith. 2,168,633; Aug. 8.
Control apparatus for grinding machines. D. R. Hall. 2,168,596; Aug. 8.
Control, Automatic selectivity. H. A. Wheeler. 2,168,461; Aug. 8.
Control device. E. J. Dillman and D. D. Wile. 2,168,564; Aug. 8.
Control device. A. G. Hann and P. S. Russel. 2,168,307; Aug. 8.
Control device. D. D. Wile. 2,168,545; Aug. 8.
Control device for change-speed gears. E. Dausch. 2,168,667; Aug. 8.
Control for liquid fuel burners, Automatic electric. H. S. Turner. 2,169,077; Aug. 8.
Control mechanism for gas and liquid storage apparatus. J. H. Wiggins and D. E. Larson. 2,168,891; Aug. 8.
Control, Synchro-tie. R. R. Baker. 2,169,016; Aug. 8.
Control system, Electrical. M. A. Edwards. 2,169,093; Aug. 8.
Control system, Elevator. H. W. Williams. 2,169,035; Aug. 8.
Control system, Power. J. W. Dawson. 2,169,023; Aug. 8.
Control system, Pulsating electrical. A. S. Fitz Gerald. 2,168,402; Aug. 8.
Control system, Remote. N. F. Agnew. 2,168,786; Aug. 8.
Conveyer. J. C. Paterson. 2,168,419; Aug. 8.
Conveyer, Single wheel mold. A. C. Christensen and A. G. Granath. 2,168,898; Aug. 8.
Conveying apparatus, Continuous. H. T. Battin. 2,168,555; Aug. 8.
Cooker, Tourist. W. N. Parmeter. 2,168,491; Aug. 8.
Cooler: *See*—
  Cinder notch cooler.
Cooler for photomechanical printing plates. R. Germe. 2,169,042; Aug. 8.
Cooling and dispensing apparatus, Combined beer. W. Kissinger. 2,169,153; Aug. 8.
Copper base alloy. J. M. Kelly. 2,169,187–90; Aug. 8.
Copper solutions, Preparation of iron free. S. Gulbrandsen. 2,168,985; Aug. 8.
Core fin binder strip. F. M. Young. 2,168,549; Aug. 8.
Corn harvester. H. J. Kuhlman. 2,169,070; Aug. 8.
Corn popper. E. Branam. 2,168,665; Aug. 8.
Corn sheller. J. A. Erickson. 2,168,617; Aug. 8.
Corner construction. Artificial brick. R. R. Brenner. 2,169,136; Aug. 8.
Cotter pin. M. A. Smith. 2,169,191; Aug. 8.
Coupler for lubricant fittings. W. L. Ostendorf. 2,168,915; Aug. 8.
Coupling: *See*—
  Rod coupling.
Creeper. E. C. Smith. 2,168,455; Aug. 8.
Crusher, Centrifugal. R. W. Rider. 2,168,582; Aug. 8.
Crystalline bodies, Uniting fusible. P. K. Pfundt. 2,168,943; Aug. 8.
Curb, Structural. W. F. Hirschman. 2,168,798; Aug. 8.
Curler, Slumber. N. L. Solomon. 2,168,368; Aug. 8.
Current on an amplified loudspeaker system, Transmitting and distributing audio. G. M. Marr. 2,168,426; Aug. 8.
Current rectifiers of the dry-contact type, Manufacture of alternating. A. L. Williams and L. E. Thompson 2,168,462; Aug. 8.
Cushion, Auto. D. Clarke. 2,168,976; Aug. 8.
Cushion slide for furniture. W. F. Herold. 2,169,145; Aug. 8.
Cut-out, Electric. R. S. Bennett. 2,169,087; Aug. 8.
Cutter: *See*—
  Mining-chain cutter.
Cutter, Register control. F. H. Gulliksen. 2,169,026; Aug. 8.
Cutting machine. A. Laukhuff. 2,168,415; Aug. 8.
Cycle fixture. H. L. Kraeft. 2,168,939; Aug. 8.
Cyclopentano-hydrophenanthrene series and making same, Compounds of the. L. Ruzicka. 2,168,685; Aug. 8.
Damper regulator. S. C. Shipley. 2,169,168; Aug. 8.

Deicing means for airplanes. W. S. Diehl. 2,168,328; Aug. 8.
Dental cleaning compact. W. O. and E. E. Smith. 2,168,689; Aug. 8.
Denture. F. M. Zull. 2,168,967; Aug. 8.
Dentures, Making. P. M. Kyprie. 2,168,530; Aug. 8.
Dentures, Preparing. N. G. Wills. 2,168,546; Aug. 8.
Desk, School. R. K. Merrill. 2,168,910; Aug. 8.
Detonator, Mechanical. H. Junghans. 2,168,482; Aug. 8.
Dial, Gasoline meter. A. F. Howe and R. A. Bagnell. 2,169,048; Aug. 8.
Dial, Illuminating instrument. R. L. Triplett. 2,168,720; Aug. 8.
Diaphragm construction. S. Landell. 2,168,995; Aug. 8.
Diazoamino compounds soluble in water and preparing them. H. Kracker and R. Schmid. 2,168,800; Aug. 8.
Dibromoaminoanthraquinone compounds and products obtainable thereby, Preparation of. H. R. Lee and D. X. Klein. 2,169,196; Aug. 8.
Die mechanism. A. C. Arbogast. 2,168,641; Aug. 8.
Digging machine, Bulb. A. De Vries. 2,168,966; Aug. 8.
Dilator, Thermal. W. N. McConkey. 2,168,427; Aug. 8.
Discharge apparatus, Electric. J. Slepian. 2,169,031; Aug. 8.
Discharge device, High voltage and high vacuum. S. Hirsch. 2,168,872; Aug. 8.
Dispenser: *See*—
Paper dispenser.
Display device. L. W. Chubb. 2,169,022; Aug. 8.
Display mechanism, Advertising. T. Veltch. 2,168,723; Aug. 8.
Distillation and tractionation process and apparatus. D. G. Brandt. 2,168,316; Aug. 8.
Diving mask. K. Asari. 2,168,695; Aug. 8.
Door holder. E. J. Sibley. 2,168,453; Aug. 8.
Door holder. J. A. Wallace. 2,168,635; Aug. 8.
Drafting machine. C. H. and C. H. Little. 2,168,940; Aug. 8.
Drain fitting. G. B. Nystrom. 2,169,006; Aug. 8.
Drill: *See*—
Rock drill. Wagon drill.
Drink mixer. L. Myers. 2,168,429; Aug. 8.
Driving and stopping mechanism. J. Fossa. 2,169,094; Aug. 8.
Drum controller. R. B. Hunter and H. L. Mekelburg. 2,169,049; Aug. 8.
Dry sealing container. A. I. Cohen. 2,168,873; Aug. 8.
Duplicating apparatus. A. Marchev. 2,168,486; Aug. 8.
Dye retention sub for photographic film, Low. G. F. Nadeau. 2,169,004; Aug. 8.
Dyes, Metal containing trisazo. H. Krzikalla and W. Limbacher. 2,168,571; Aug. 8.
Dyestuffs and making same, Azo. O. Kaiser. 2,169,152; Aug. 8.
Dyestuffs and the manufacture thereof, Azo. P. Petitcolas. 2,169,162; Aug. 8.
Dyestuffs of the anthraquinone series. W. Zerweck and E. Heinrich. 2,168,947; Aug. 8.
Dynamo-electric machine. R. W. Hall and H. A. Smith. 2,169,097; Aug 8.
Dynamo-electric machine. C. W. Lange. 2,169,100; Aug. 8.
Edge protector, Nonrub fur coat. D. Feshbach. 2,168,618; Aug. 8.
Edible product. D. Farr. 2,168,980; Aug. 8.
Egg white process. V. D. Littlefield. 2,168,926; Aug. 8.
Electric cable. G. Meybauer. 2,169,108; Aug. 8.
Electric switch. P. M. Christensen. 2,168,747; Aug. 8.
Electric switch. A. W. Krieger. 2,168,413; Aug. 8.
Electric switch. J. Sachs. 2,168,540; Aug. 8.
Electric wave reception. G. L. Beers. 2,169,018; Aug. 8.
Electrode, Auxiliary. W. E. Babis. 2,169,015; Aug. 8.
Electrode feeding mechanism. K. Brenkert. 2,168,697; Aug. 8.
Electron discharge device circuit. W. V. Roberts. 2,168,782; Aug. 8.
Electron tube. L. B. Headrick. 2,169,046; Aug. 8.
Electrooptical system. F. Gray. 2,169,179; Aug. 8.
Emulsion, Dehydrating an. W. R. Alexander. 2,168,309; Aug. 8.
Engine: *See*—
Internal combustion engine.
Engines, Attachment for internal combustion. L. H. Messinger, Jr. 2,168,605; Aug. 8.
Enlarging apparatus for movie films. J. H. Simms. 2,168,688; Aug. 8.
Episcopic apparatus. L. N. Mestre. 2,168,487; Aug. 8.
Esters, Production of vitamin A. K. C. D. Hickman and A. D. Tischer. 2,169,195; Aug. 8.
Ethers, Trichlor methyl aromatic carbinol. L. P. Kyrices. 2,168,349; Aug. 8.
Evaporating apparatus and method. D. D. Peebles and P. D. V. Manning. 2,168,362; Aug. 8.
Exhaust passage of two-stroke internal combustion engine, M. Kadenacy. 2,168,528; Aug. 8.
Expander for split skirt pistons, Permanent. F. C. Dalton. 2,168,601; Aug. 8.
Expanding device for tubular envelopes. A. Joseph. 2,168,993; Aug. 8.
Explosive, Nitrostarch. C. O. Davis. 2,168,563; Aug. 8.
Explosion relief means. A. L. Galusha. 2,169,123; Aug. 8.
Explosive, Inorganic nitrate. C. O. Davis. 2,168,562; Aug. 8.
Extractor: *See*—
Juice extractor.
Extruding materials, Method and apparatus for. E. H. Thomas. 2,168,889; Aug. 8.
Eyelash curler. N. L. Solomon. 2,168,370; Aug. 8.
Fabric: *See*—
Plain knit ornamented fabric.
Fabric and making the same, Dull finish coated. F. G. Uhler. 2,169,200; Aug. 8.
Fastener: *See*—
Separable fastener.
Fastener. H. W. Kost. 2,169,182; Aug. 8.
Fastener-attaching machine. H. Levine. 2,168,416; Aug. 8.
Fasteners, Making separable. N. J. Poux. 2,169,176; Aug. 8.
Fasteners, Manufacturing separable. G. Sundback. 2,169,177; Aug. 8.
Fastening device. O. M. Case. 2,168,324; Aug. 8.
Fastening device. H. W. Kost. 2,169,181; Aug. 8.
Feed device, Intermittent. A. S. Howell. 2,168,771; Aug. 8.
Feed mechanism for a machine tool. E. R. Smith. 2,168,632; Aug. 8.
Feed mechanism for duplicating machines. J. E. Schaefer. 2,168,364; Aug. 8.
Feeder: *See*—
Hox feeder. Single-line feeder.
Rabbit feeder.
Feeding mechanism, Film. R. S. Hopkins and E. O. Wangerin. 2,168,987; Aug. 8.
Felt, Single ply asbestos faced drier. W. A. Barrell. 2,168,928; Aug. 8.
Fibrous sheets, Producing waterproof. J. A. Montgomerie and P. K. Archibald. 2,168,778; Aug. 8.
Film clip. W. H. Pleiss. 2,169,073; Aug. 8.
Film, Fluid treating of photographic. A. A. Parker. 2,168,846; Aug. 8.
Film guide. I. Marks. 2,168,941; Aug. 8.
Film-treating apparatus, Continuous. A. W. Tondreau. 2,169,061; Aug. 8.
Film wind for folding cameras. J. Hihalyi. 2,169,000; Aug. 8.
Film winding mechanism for cameras. W. Lindenberg. 2,168,998; Aug. 8.
Films, Device for viewing. S. P. Caldwell. 2,168,761; Aug. 8.
Firearm. W. L. Swartz. 2,169,084; Aug. 8.
Firearm, Automatic. W. L. Swartz. 2,169,083; Aug. 8.
Firebox, Locomotive. A. W. Nelson. 2,168,625; Aug. 8.
Fishing reel. C. R. Klein. 2,168,938; Aug. 8.
Fishway. H. B. Holmes, H. F. Blood, and M. C. Bell 2,168,341; Aug. 8.
Fitting, Plumbing. P. L. Scott. 2,168,631; Aug. 8.
Flotation apparatus. J. M. McClave. 2,168,942; Aug. 8.
Flow booster for air pipes. J. Rucker. 2,168,783; Aug. 8.
Flue treatment. R. C. Newton and F. L. De Beukelaer. 2,168,626; Aug. 8.
Fluids, Apparatus for mixing. G. M. E. Pos. 2,168,363; Aug. 8.
Fluids, Method of and apparatus for controlling the flow of. H. Ziebolz and H. J. Velten. 2,169,174–5; Aug. 8.
Flush regulator, Adjustable. F. O'Neill and G. L. Robertson. 2,168,742; Aug. 8.
Flying object and apparatus for its simulated flight W. F. Barry. 2,168,384; Aug. 8.
Folding box. H. E. Cole. 2,169,065; Aug. 8.
Folding table. L. R. Vinding. 2,168,813; Aug. 8.
Food mixer. C. Aalborg. 2,169,014; Aug. 8.
Food product and making same. R. B. and R. H. Haskins, Jr. 2,168,934; Aug. 8.
Food product and producing the same. P. A. Watson. 2,168,724; Aug. 8.
Food product, Concentrated. A. Musher. 2,168,360; Aug. 8.
Food products, Treating. S. H. Ayers and C. W. Lang. 2,168,506; Aug. 8.
Foodstuff for animals, Production of predigested vegetable. C. S. Townsend. 2,168,722; Aug. 8.
Foot-controlled directional light switch. W. S. Overly. 2,169,161; Aug. 8.
Form clamp. H. P. Neptune. 2,168,714; Aug. 8.
Form tie. D. C. Hungerford. 2,168,990; Aug. 8.
Frame: *See*—
Ring spinning frame.
Friction shock-absorbing mechanism. G. A. Johnson and S. B. Haseltine. 2,168,408; Aug. 8.
Frying machine, Hamburger. W. A. Parr. 2,168,773; Aug. 8.
Fuel, Diesel. B. H. Shoemaker and H. R. Batchelder. 2,169,186; Aug. 8.
Fuel injector. H. C. Edwards. 2,168,839; Aug. 8.
Fuel pump regulator, Automatic. H. J. Kent. 2,168,904; Aug. 8.
Funnel construction. H. A. Damkroger. 2,168,395; Aug. 8.
Furnace: *See*—
Barbeque furnace. Open hearth furnace.
Furnace, tray, Heat treating. H. H. Harris. 2,168,333; Aug. 8.
Furnace pot. H. H. Harris. 2,168,334; Aug. 8.
Fuse construction. W. O. Schultz. 2,168,586; Aug. 8.

Fuse, Renewable electric. D. E. Carney. 2,168,791; Aug. 8.
Game. R. B. Stacy-Judd. 2,168,365; Aug. 8.
Game, Ball. F. W. L. Carre. 2,169,038; Aug. 8.
Game, Target indicating. A. E. Browning. 2,168,644; Aug. 8.
Garment, Foundation. M. Ciringione. 2,168,931; Aug. 8.
Garment hanger. S. E. Herman. 2,168,647; Aug. 8.
Garment having closed neck opening. H. L. Redmond. 2,169,164; Aug. 8.
Garment sacker. E. J. Schoenlaub. 2,168,962; Aug. 8.
Gas, Apparatus for producing. J. U. McDonald. 2,168,652; Aug. 8.
Gas filler valve. J. Kantor. 2,168,841; Aug. 8.
Gases, Purification of. F. Gilker and F. Winkler. 2,168,933; Aug. 8.
Gasoline refining. V. Voorhees. 2,168,691; Aug. 8.
Gate: *See*—
Sluice gate.
Gear: *See*—
Change speed gear. Steering gear.
Reduction gear. Swimming gear.
Power transmission gear.
Gear-cutting machine. R. S. Drummond. 2,168,932; Aug. 8.
Gear shifting mechanism. A. Vanderveld. 2,168,592; Aug. 8.
Gearing for bicycles. P. R. Torres. 2,169,171; Aug. 8.
Generator: *See*—
Relaxation oscillation gen. Saw tooth generator.
erator.
Geometric model. W. A. Spencer. 2,168,634; Aug. 8.
Glass, Apparatus for gathering and forming. A. F. Tremblay. 2,168,833; Aug. 8.
Glass perforating. W. A. Maher. 2,168,650; Aug. 8.
Glove manufacture. C. L. Dunn. 2,168,819; Aug. 8.
Glucosides having an action on the heart obtained from oleander leaves, Preparing. M. Bockmühl and G. Ehrhart. 2,168,789; Aug. 8.
Glycol condensation products and process of producing the same, Water-soluble urea-formaldehyde-ethylene. T. S. Hodgins and A. G. Hovey. 2,168,477; Aug. 8.
Governor, Centrifugal. W. T. Tabb. 2,168,372; Aug. 8.
Grade indicator. H. C. Rickenbach and W. E. Herman. 2,168,885; Aug. 8.
Grading and excavating machine. A. W. French. 2,169,184; Aug. 8.
Gramophone for playing records of an endless film. S. Konishi. 2,168,529; Aug. 8.
Granules, Making artificially colored. M. H. Veazey. 2,168,593; Aug. 8.
Graph construction. J. H. Dobbin, Jr. 2,168,793; Aug. 8.
Grinder, Valve. F. T. Swolgart. 2,168,458; Aug. 8.
Guard or fringe and package therefor. R. C. Scott. 2,168,784; Aug. 8.
Guard, Ornamental grille and fender. G. A. Lyon. 2,168,354; Aug. 8.
Guard, Snap-on bumper. G. A. Lyon. 2,168,356; Aug. 8.
Hair clipping blade set, Replaceable. M. Andis. 2,168,642; Aug. 8.
Hair curler. A. Caldora. 2,169,021; Aug. 8.
Hairpin opener. S. E. Ordal. 2,168,432; Aug. 8.
Hand tool. H. P. Van Keuren. 2,168,812; Aug. 8.
Handkerchief, Made-up. C. W. Beardsley. 2,168,787; Aug. 8.
Handle for hand grenades. G. Erdmann. 2,168,979; Aug. 8.
Hanger: *See*—
Clothes hanger. Garment hanger.
Harness for pails, Supporting. R. K. Clark. 2,169,080; Aug. 8.
Hay carrier. G. D. Booth. 2,168,393; Aug. 8.
Head support, Self leveling. G. P. Utermöhlen. 2,169,117; Aug. 8.
Headlight. J. Vallandingham. 2,168,834; Aug. 8.
Headlight indicator. A. E. Benson. 2,168,510; Aug. 8.
Headwear. C. H. Dowd. 2,168,765; Aug. 8.
Hearing device. J. Petersen. 2,168,781; Aug. 8.
Heater and burner therefor. H. T. Bellamy. 2,168,758; Aug. 8.
Heating plants, Control system for. A. W. Nordgren. 2,168,680; Aug. 8.
Heel portions onto stockings, Separately working. H. Dietrich. 2,168,398; Aug. 8.
Hides and skins, Drying. H. W. Hyde and D. Edgar. 2,168,478; Aug. 8.
Hides and skins, Unhairing of. A. O. Jaeger and R. Herrlinger. 2,169,147–8; Aug. 8.
Highway guard. J. B. Bradshaw. 2,168,930; Aug. 8.
Highway signal. R. A. Loux. 2,168,484; Aug. 8.
Hinge. J. and H. Soss. 2,169,059; Aug. 8.
Hog feeder. C. I. Ringer. 2,168,745; Aug. 8.
Hoist and feed hopper. A. C. Rasmussen. 2,168,495; Aug. 8.
Holder: *See*—
Coin holder. Photographic plate holder.
Collar holder. Ticket holder.
Door holder.
Holder for cross-word puzzles. H. Alexander. 2,168,551; Aug. 8.
Holders, Fabricating cosmetic. E. Noyack. 2,168,876; Aug. 8.
Holders, Fabricating cosmetic. E. Noyack and G. P. Peterson. 2,168,877; Aug. 8.
Honey, Device for cutting and packing comb. A. Perreton. 2,168,579; Aug. 8.
Hook: *See*—
Bag hook.
Housing, Flexible service tube or hose. W. T. Caldwell. 2,168,951; Aug. 8.
Hydraulic brake. N. R. Lulay. 2,168,959; Aug. 8.
Hydraulic device for the transmission of power. D. Sensaud de Lavaud. 2,168,862; Aug. 8.
Hydraulic implement. P. J. Robinson. 2,168,496; Aug. 8.
Hydrocarbons, Catalytic alkylation of aromatic. H. S. Taylor. 2,168,590; Aug. 8.
Hydrocarbons from vacuum distillation of fish oil. J. G. Baxter. 2,169,192; Aug. 8.
Hydrogen peroxide from solutions, Producing. H. Schmidt. 2,169,128; Aug. 8.
Hydrometer. C. E. Linebarger. 2,168,353; Aug. 8.
Ice cream, Device for dispensing. A. S. Mackey. 2,168,737; Aug. 8.
Ice cube making machine. J. A. Barr. 2,169,133; Aug. 8.
Impact member and making the same, Auxiliary. G. A. Lyon. 2,168,358; Aug. 8.
Impact member, Auxiliary. G. A. Lyon. 2,168,357; Aug. 8.
Impact members, Making auxiliary. G. A. Lyon. 2,168,355; Aug. 8.
Index, Rotary card. G. C. Bruen. 2,168,323; Aug. 8.
Indicating device. R. B. Johnson. 2,168,443; Aug. 8.
Indicator: *See*—
Grade indicator. Headlight indicator.
Indicator for musical compositions. A. C. Montardo. 2,169,002; Aug. 8.
Inductor, Adjustable magnetic-core. W. D. La Rue and R. L. Harvey. 2,168,351; Aug. 8.
Inhaler. A. and A. D. Leenhouts. 2,168,573; Aug. 8.
Injection device. K. O. Buerckln. 2,168,437; Aug. 8.
Internal combustion engine. R. T. Wagers. 2,168,502; Aug. 8.
Internal combustion motor. R. S. Busby. 2,169,120; Aug. 8.
Invalid walker. E. C. Skinner and R. Lawatch. 2,168,424; Aug. 8.
Iron and steel with addition agents, Treating molten. J. H. Critchett and W. Crafts. 2,168,561; Aug. 8.
Isoquinoline compounds and derivatives thereof. M. Bockmühl and H. Hermann. 2,168,929; Aug. 8.
Joint: *See*—
Turbine casing joint.
Joint in concrete slabs or pavements. L. I. Hewes and W. Bertwell. 2,168,925; Aug. 8.
Juice extractor. L. Myers. 2,168,430; Aug. 8.
Keto group of calcium 5-keto-gluconate and product, Catalytic hydrogenation of the. R. Pasternack and E. V. Brown. 2,168,878.; Aug. 8.
Keyboard locking means. K. R. Schneider and C. J. Fitch. 2,168,423; Aug. 8.
Knife, Skinning. N. J. Dziedzic and F. B. Bratek. 2,168,703; Aug. 8.
Knitting machine. J. L. Getaz. 2,168,869; Aug. 8.
Knitting machines, Fabric take-up device for flat. J. L. Getaz. 2,169,140; Aug. 8.
Knitting machines, Stop mechanism for. J. and M. Wachsman. 2,168,754; Aug. 8.
Labeled articles, Surface-treating. T. H. Way. 2,169,062; Aug. 8.
Labeling machine. S. R. Howard. 2,168,525; Aug. 8.
Lamp: *See*—
Safety lamp. Stroboscopic lamp.
Lamp socket. F. C. De Reamer. 2,169,091; Aug. 8.
Lamps, Attaching device for miner's. A. Dorsey. 2,169,067; Aug. 8.
Lathing. L. V. Bell. 2,168,466; Aug. 8.
Lead manufacture. W. H. Woodford. 2,168,381; Aug. 8.
Leg-supported structure. J. F. Johnson. 2,168,710; Aug. 8.
Lens attachment for objectives, Magnifying. A. W. Tronnier, S. Roeschlein, and E. Lescher. 2,169,130; Aug. 8.
Lens grinding and polishing machine. W. A. Lockhart. 2,168,843; Aug. 8.
Lifesaving device. J. N. Stebbing, Jr. 2,169,142; Aug. 8.
Lift platform, Automobile. C. E. Musgrave. 2,168,624:
Lifter: *See*—
Battery lifter.
Lifting device. E. J. Leary. 2,168,906; Aug. 8.
Lifting mechanism. J. J. Mizer. 2,168,489; Aug. 8.
Light: *See*—
Traffic-signal light.
Light signal. N. F. Agnew. 2,168,785; Aug. 8.
Lighter, Friction-wheel pyrophoric. A. Dubsky. 2,168,732; Aug. 8.
Lightning arrester, Repulsion. R. R. Pittman. 2,169,110;
Line tightener. M. and A. Jacob and J. Maravalli. 2,168,954; Aug. 8.
Linkage mechanism. C. C. Glidden. 2,168,645; Aug. 8.
Liquid dispensing system. A. G. Wheler and M. J. Roznowski. 2,168,636; Aug. 8.
Liquid-fuel-burning apparatus. W. H. Bergey. 2,168,859; Aug. 8.
Liquid treating apparatus. J. J. Mojonnier. 2,169,054; Aug. 8.

Liquid vender. Automatic. J. M. Alexander. 2,168,552; Aug. 8.
Lock: *See*—
Automobile hook lock. Postage meter counter lock.
Combination lock.
Locking device. G. E. McKeen. 2,168,677; Aug. 8.
Locking means for speed variating mechanism of liquid dispensing apparatus, Safety. J. H. Chaplin. 2,168,439; Aug. 8.
Loom; *See*—
Circular loom.
Loom. E. R. Pedrazzo. 2,168,420; Aug. 8.
Louver, Tropical. V. E. Huff. 2,168,347; Aug. 8.
Lubricant. E. H. Lincoln and A. Henriksen. 2,169,155; Aug. 8.
Lubricant. C. M. Loane and B. H. Shoemaker. 2,168,674; Aug. 8.
Lubricant, Extreme pressure. A. W. Ralston. 2,168,848; Aug. 8.
Lubricated plug valve. O. Jacobsen. 2,168,903; Aug. 8.
Lubricating apparatus. E. W. Davis. 2,168,396; Aug. 8.
Lubricating device. P. Maniscalco. 2,169,106; Aug. 8.
Lubricating means for thrust bearings. H. A. S. Howarth. 2,168,343–4; Aug. 8.
Lubrication, Method and apparatus for. G. F. Saal and J. G. Schmitt. 2,168,746; Aug. 8.
Lubricator: *See*—
Rail and wheel flange lubricator.
Lure, Fish. F. C. Hartung. 2,168,476; Aug. 8.
Machine for assorting cylindrical articles by diameter. C. J. Du Brul. 2,168,519; Aug. 8.
Machine for making fastener stringers. G. Sundback. 2,169,178; Aug. 8.
Machine for cutting tubing. N. D. Abbey. 2,168,853; Aug. 8.
Machine for reconditioning bale bands, box strappings, and the like. A. Bond. 2,168,435; Aug. 8.
Machine for opening envelopes. A. M. Coleman, C. C. Bater, and G. A. Lee. 2,168,394; Aug. 8.
Machine for taping shoe parts. F. L. Corson. 2,168,471; Aug. 8.
Machine for the winding of the electrical coils on a ring-formed dynamo core. E. Kürsteiner. 2,168,957; Aug. 8.
Machine operating on record cards. E. J. Von Pein. 2,168,434; Aug. 8.
Magnesium, Production of metallic. H. Seliger and O. Breuschneider. 2,168,750; Aug. 8.
Massaging device. D. Clarke. 2,168,975; Aug. 8.
Massaging device. C. E. Kesteven and J. W. Michaelson. 2,168,842; Aug. 8.
Material, Apparatus for grading. R. E. Church and G. L. Seliars. 2,168,838; Aug. 8.
Material handling mechanism. N. D. Levin. 2,168,622; Aug. 8.
Material working apparatus. E. M. Bidwell. 2,169,036; Aug. 8.
Materials, Method and apparatus for separating. B. O'Brien. 2,168,681; Aug. 8.
Materials, Pelleting of. C. W. McMath and L. C. Roots, Jr. 2,168,532; Aug. 8.
Meat and the product thereof, Process for the treatment of. R. F. James. 2,169,081; Aug. 8.
Meat carrier for meat cooking devices. K. E. Bemis. 2,168,390; Aug. 8.
Medicinal preparation. O. A. Strauss. 2,168,657; Aug. 8.
Mercaptans from mercaptide solutions, Removal of. D. L. Yabroff and E. R. White. 2,168,851; Aug. 8.
Metal bodies, Making hard. J. Romp. 2,169,007; Aug. 8.
Metal cutting and forming machine. T. H. Forshey. 2,168,704; Aug. 8.
Metal elements for screws, Adapting sheet. B. C. Place. 2,169,057; Aug. 8.
Metal for screws, Adapting sheet. B. C. Place. 2,169,056; Aug. 8.
Metal from bodies of ferrous metals, Method and apparatus for thermochemically removing. H. R. Pufahl and J. H. Bucknam. 2,168,581; Aug. 8.
Meter: *See*—
Product meter. Watt-hour meter.
Microphone. H. Jacoby and H. Panzerbieter. 2,168,569; Aug. 8.
Mining chain cutter. F. L. Fulke. 2,168,794; Aug. 8.
Mixer: *See*—
Drink mixer. Food mixer.
Modulation circuit. O. Böhm and R. Hofer. 2,169,019; Aug. 8.
Mold and other presses, Vulcanizing. C. Iverson. 2,169,146; Aug. 8.
Molding. G. Trautvetter. 2,169,172; Aug. 8.
Motion device, Stop. P. J. Thomas. 2,169,170; Aug. 8.
Motion, System for transmitting angular. W. H. Newell. 2,168,575; Aug. 8.
Motor: *See*—
Internal combustion motor. Wind propelled turbine motor.
Motor. M. Carrasco-Sánchez. 2,168,672; Aug. 2.
Motor cooling system. D. H. Coy. 2,169,121; Aug. 8.
Motor cultivating machine. L. Dufour. 2,168,733; Aug. 8.
Mounting for rock drills. D. W. Hart and M. F. Behney. 2,168,522; Aug. 8.
Mower, Lawn. E. S. George and H. L. Blydenburgh. 2,168,706; Aug. 8.
Mowing machine. C. L. Meinholdt. 2,168,738; Aug. 8.
Music, Apparatus for the production of. B. F. Miessner. 2,168,623; Aug. 8.
Nail or spike. A. M. Agnew. 2,168,854; Aug. 8.
Nasal inhaler. C. H. and W. Francisco, and L. Brown. 2,168,705; Aug. 8.
Needle threader. A. L. Holland. 2,169,124; Aug. 8.
Nozzle, Injector. A. J. Davidson, Jr. 2,168,668; Aug. 8.
Oil and gas separator. L. Losure. 2,169,156; Aug. 8.
Oil ejector. R. G. Plews. 2,168,493; Aug. 8.
Oil well rig. L. M. York. 2,168,837; Aug. 8.
Oils, Lubricating. B. H. Shoemaker and C. M. Loane. 2,169,185; Aug. 8.
Oils, Treating. H. D. Noll. 2,168,875; Aug. 8.
Oils, Treating hydrocarbon. H. C. Schutt. 2,168,610; Aug. 8.
Oils, Treating mineral. M. R. Cannon. 2,168,666; Aug. 8.
Open hearth furnace. G. W. Putnam. 2,169,163; Aug. 8.
Optical instrument. A. Whitwell. 2,168,637; Aug. 8.
Ores and the like, Extracting. A. C. Van Es. 2,168,542; Aug. 8.
Ores, Concentrating. A. W. Ralston and W. O. Pool. 2,168,849; Aug. 8.
Ores, Concentrating fluorspar. J. B. Clemmer and C. O. Anderson. 2,168,762; Aug. 8.
Oscillator system. J. B. Dow. 2,168,924; Aug. 8.
Overhead carrier. F. C. Harris. 2,168,986; Aug. 8.
Packages, Wrapping. W. A. Ringler. 2,168,583; Aug. 8.
Packaging process and medium. T. A. McCoy. 2,168,651; Aug. 8.
Packing, Fluid. R. S. Condon. 2,168,818; Aug. 8.
Packing material. D. S. Brigham and W. J. Schwertfeger. 2,168,317; Aug. 8.
Pan, Liquid applying. L. R. Lankes and G. F. Nadeau. 2,168,997; Aug. 8.
Pan structure, Hearth. J. E. Chandonia. 2,168,470; Aug. 8.
Paper and making same, Creped. B. Asnes. 2,168,895; Aug. 8.
Paper, Apparatus for making. G. T. Lane and W. Butterfield. 2,168,996; Aug. 8.
Paper, Creping and coating. B. Asnes. 2,168,896; Aug. 8.
Paper dispenser. M. H. Muse. 2,169,072; Aug. 8.
Paper, Process and apparatus for the manufacture of. E. A. Charlton. 2,168,560; Aug. 8.
Paper protector, Printing press. L. T. Barker. 2,168,613; Aug. 8.
Parasol anchor, Beach. J. B. Schroth. 2,168,830; Aug. 8.
Pasting mechanism, Page. H. A. W. Wood. 2,168,547; Aug. 8.
Patch-making tool. E. Dugaw. 2,168,766; Aug. 8.
Perfume fixative. E. B. Overshiner. 2,169,055; Aug. 8.
Petroleum acid compounds, Manufacture of oxidized. R. E. Burk. 2,168,699; Aug. 8.
Phenolphthalein, Producing. M. Hubacher. 2,168,346; Aug. 8.
Phonorhythm process and apparatus for carrying it out. C. R. Blum. 2,168,467; Aug. 8.
Phosphatide preparations, Manufacture of fluid. K. Braun and R. Rosenbusch. 2,168,468; Aug. 8.
Phosphorus, Producing. T. F. Bally. 2,168,312; Aug. 8.
Photographic apparatus. O. Wittel. 2,169,013; Aug. 8.
Photographic element, Increasing the effective speed of a. J. G. Capstaff. 2,168,971; Aug. 8.
Photographic enlargement device. J. W. Williamson. 2,168,503; Aug. 8.
Photographic plate holder. E. D. Lukis. 2,168,418; Aug. 8.
Photographic shutter. H. Junghans. 2,168,483; Aug. 8.
Photography, Composite. B. C. Haskin. 2,169,045; Aug. 8.
Photosensitive material. A. Murray. 2,169,003; Aug. 8.
Picture apparatus, Motion. R. W. Wengel. 2,169,011; Aug. 8.
Piezoelectric device. C. E. Semple, Jr. 2,168,809; Aug. 8.
Pigment production, Azo. A. Siegel. 2,168,888; Aug. 8.
Pile with H-beam, Composite. M. M. Upson. 2,168,459; Aug. 8.
Pin: *See*—
Cotter pin. Smoker's dry-pipe pin.
Pipe still. G. Auer. 2,169,086; Aug. 8.
Pipe union and fitting. I. Kaufman. 2,169,069; Aug. 8.
Pipes and the like, Apparatus for coating. A. G. Perkins. 2,168,917; Aug. 8.
Pistol, Metal-spraying. H. Schlüpmann. 2,168,807; Aug. 8.
Piston machine, Free. R. Pateras Pescara. 2,168,829; Aug. 8.
Piston ring, Covered joint. J. Giardino. 2,168,901; Aug. 8.
Plain knit ornamented fabric. J. L. Getaz. 2,168,868; Aug. 8.
Plants, Solution for propagation of. P. W. Zimmerman and A. E. Hitchcock. 2,168,550; Aug. 8.
Plastering apparatus. S. A. Earnshaw. 2,168,329; Aug. 8.
Plastic masses, Coloring. G. Niemann and L. Kollek. 2,168,576; Aug. 8.
Plate finishing and cooling machine, Stereotype. H. A. W. Wood. 2,168,548; Aug. 8.
Plates, Apparatus for etching. L. E. Holland. 2,168,407; Aug. 8.
Platen press. G. A. Schieren. 2,168,452; Aug. 8.
Plating, Chemical. D. C. Wilkerson. 2,168,638; Aug. 8.

Play device. C. Birch. 2,168,392; Aug. 8.
Plow, Two-way. J. Peterson. 2,168,882; Aug. 8.
Plug type switch. W. J. Bauroth. 2,168,663; Aug. 8.
Pole-snubbing device. C. J. Lemont. 2,169,102; Aug. 8.
Postage meter counter lock. J. A. Strother. 2,168,457; Aug. 8.
Pot or pan lifting implement. R. Cicchiello. 2,168,730; Aug. 8.
Power apparatus, Fluid actuated. S. C. Kyle. 2,168,711; Aug. 8.
Power control. J. W. Allen and H. W. Graybrook. 2,168,921; Aug. 8.
Powder for use in etching, Acid resist. D. B. Alnutt. 2,168,756; Aug. 8.
Power transmission. E. L. Rose. 2,168,655; Aug. 8.
Power transmission. E. L. Rose and R. L. Tweedale. 2,168,656; Aug. 8.
Power-transmission gear. J. W. Marsh. 2,168,359; Aug. 8.
Power-transmitting apparatus. J. L. Reilly. 2,168,806; Aug. 8.
Power-transmitting device, Hydraulic. D. Sensaud de Lavaud. 2,168,863; Aug. 8.
Press: *See*—
Bending press. Platen press.
Pressure, Obtaining and controlling fluid. E. G. Staude. 2,168,719; Aug. 8.
Pressure regulating device for aircraft instruments. D. E. Olshevsky. 2,168,536; Aug. 8.
Pressure treatment of parts of the human body, Method of and apparatus for the. W. R. Thompson. 2,168,611; Aug. 8.
Prime mover regulation. L. J. Adams and F. Bracken. 2,168,927; Aug. 8.
Printing machine. R. E. Paris. 2,168,446; Aug. 8.
Printing plates, Producing. E. D. Lake. 2,168,444; Aug. 8.
Prints, Making. E. Jollasse. 2,168,481; Aug. 8.
Product meter. H. A. Thompson. 2,169,116; Aug. 8.
Projecting apparatus with optical compensation, Cinematographical. P. Parvopassu. 2,168,433; Aug. 8.
Projection apparatus. F. D. and J. J. Korkosz. 2,168,799; Aug. 8.
Projector, Still. W. D. Teague and D. A. Young, Jr. 2,169,010; Aug. 8.
Propelling and finishing units. H. H. Barber. 2,168,507; Aug. 8.
Protection system, Telephonic house. J. J. Brown. 2,168,320; Aug. 8.
Protective and maintenance equipment for electric circuit interrupting devices. G. F. Lincks. 2,169,101; Aug. 8.
Protective system, Discharge. L. A. Kilgore. 2,169,027; Aug. 8.
Protector: *See*—
Carcas tongue protector. Paper protector.
Edge protector. Tongue protector.
Protector. E. L. Fisher. 2,168,769; Aug. 8.
Pulley for V belt drives, Variable-speed. G. A. Wells. 2,168,835; Aug. 8.
Pump: *See*—
Concrete pump. Sand pump.
Reciprocating ram pump.
Pump and control valve, Unitary flow reversing. D. R. Hillis. 2,168,937; Aug. 8.
Pump or motor, Power transmission. W. Thomas. 2,168,658; Aug. 8.
Pumps and slippage pumps, Arrangement for driving auxiliary pilot. W. Ernst. 2,168,669; Aug. 8.
Punch, Rate extension. C. D. Lake. 2,168,414; Aug. 8.
Punching and stripping mechanism for presses. G. F. Wales. 2,168,377; Aug. 8.
Quill or bobbin, Flat. H. L. Amrhein. 2,168,465; Aug. 8.
Rabbit feeder. B. M. Yeaman. 2,168,639; Aug. 8.
Rack: *See*—
Car floor rack.
Rack for freezing fish. F. E. Fregeau. 2,168,520; Aug. 8.
Radio receiver. H. M. Lewis and M. Cawein. 2,168,874; Aug. 8.
Radio receivers, Construction and manufacture of. D. Grimes. 2,168,984; Aug. 8.
Rail and wheel flange lubricator. E. Overmier, T. E. Rodman, and D. M. Clarke. 2,168,577; Aug. 8.
Ray deflecting apparatus, Cathode. J. R. Duncan. 2,168,978; Aug. 8.
Razor, Safety. M. Patterson. 2,168,447; Aug. 8.
Rebound spring. C. E. Caesteeker. 2,168,558; Aug. 8.
Receptacle and closure cap therefor. L. Burrell and R. K. Miner. 2,168,321; Aug. 8.
Reciprocating ram pump. J. M. and F. H. Towler. 2,168,850; Aug. 8.
Record controlled machine with improved serial number controls. G. F. Daly and A. H. Dickinson. 2,168,763; Aug. 8.
Recording and reproducing apparatus. J. J. Hardenberg. 2,169,143; Aug. 8.
Recording device. F. Trachsel. 2,168,965; Aug. 8.
Reducing-sugar product. D. P. Langlois. 2,169,051; Aug. 8.
Reduction gear. A. V. D. Willgoos. 2,168,814; Aug. 8.
Reel: *See*—
Clothesline reel. Fishing reel.
Refrigerant circulation. W. H. Carrier. 2,168,438; Aug. 8.
Refrigerant distribution. W. A. Grant. 2,168,404; Aug. 8.
Refrigerating apparatus. A. A. Kucher. 2,168,367; Aug. 8.
Refrigerating apparatus. F. R. Pierce. 2,168,537; Aug. 8.
Refrigerating apparatus. E. F. Schweller. 2,169,198; Aug. 8.
Refrigerator. C. Steenstrup. 2,169,115; Aug. 8.
Refrigerator car. W. E. Baillie. 2,168,553; Aug. 8.
Refrigerator car. C. D. Bonsall. 2,168,556; Aug. 8.
Refrigerator car, Top bunker. C. D. Bonsall. 2,168,557; Aug. 8.
Refrigerator construction. W. R. M. Very. 2,169,201; Aug. 8.
Register, Cash. F. W. F. Berger. 2,168,511; Aug. 8.
Regulating apparatus. C. Johnson. 2,169,150; Aug. 8.
Regulating system. F. L. Snyder. 2,169,033; Aug. 8.
Regulation. R. S. Elberty, Jr. 2,169,024; Aug. 8.
Relaxation oscillation generator. R. Barthelemy. 2,168,508; Aug. 8.
Regulator: *See*—
Damper regulator. Fuel pump regulator.
Flush regulator. Voltage regulator.
Relay. W. H. Gille. 2,169,141; Aug. 8.
Relay system for synchronous machines, Protective. M. Michel. 2,169,029; Aug. 8.
Resin molding composition, Phenolic. W. E. Flood and G. B. Howells. 2,168,981; Aug. 8.
Resin with integral sheen, Cast. C. M. Fields and G. A. Wilkens. 2,168,331; Aug. 8.
Resins, Making vinyl-acetal. G. O. Morrison and A. F. Price. 2,168,827; Aug. 8.
Resistor elements, Making. P. H. Brace. 2,169,020; Aug. 8.
Ring: *See*—
Piston ring.
Ring. M. Moss. 2,168,490; Aug. 8.
Ring spinning frame. E. Reich. 2,168,449; Aug. 8.
Road-grading device. E. W. Bayes. 2,168,664; Aug. 8.
Roasting and brewing coffee, Method of and apparatus for. E. H. Havis. 2,168,797; Aug. 8.
Rock drill. F. M. Slater. 2,168,541; Aug. 8.
Rod coupling. P. R. Betzing. 2,168,759; Aug. 8.
Roentgenometer. S. Yeda. 2,168,464; Aug. 8.
Roll for sound film apparatus, Pressure. D. O. Landis. 2,168,572; Aug. 8.
Roll refiner and the like. G. R. Baker and J. C. Paterson. 2,168,383; Aug. 8.
Roll, Stretch. J. Steiner. 2,169,169; Aug. 8.
Rotary-drill well bit. W. A. Abegg. 2,168,640; Aug. 8.
Rug. A. Beck. 2,168,696; Aug. 8.
Ruling instrument. J. R. Zachs. 2,168,694; Aug. 8.
Saddle, Bicycle. A. J. Linder and H. E. Kalter. 2,169,105; Aug. 8.
Safety device for heaters. A. D. Olds. 2,168,749; Aug. 8.
Safety lamp. W. M. Garlington. 2,168,671; Aug. 8.
Safety tube. B. Darrow. 2,168,514; Aug. 8.
Salts of dihexahydrocresyl sulphophthalates. O. Albrecht. 2,168,660 Aug. 8.
Sand, Apparatus for treating and blending molder's. S. B. Davies. 2,168,515; Aug. 8.
Sand pump. P. Cavins. 2,168,729; Aug. 8.
Sands and other granular materials, Treating. J. A. Crew. 2,169,122; Aug. 8.
Sandwiches, Apparatus for making. K. E. Bemis. 2,168,389; Aug. 8.
Sausage linker. C. T. Walter. 2,168,693; Aug. 8.
Saw-tooth wave generator. M. Geiger. 2,168,403; Aug. 8.
Scraper, Heavy duty. M. M. Brodersen and L. O. Bird. 2,168,318–9; Aug. 8.
Screw cutting, Accurate. G. Möller. 2,169,159; Aug. 8.
Seat: *See*—
Water-closet seat.
Seat guard. M. B. Sullivan. 2,168,919; Aug. 8.
Seat structure. C. S. Reed. 2,169,197; Aug. 8.
Secretarial answering system. S. Peterson and J. E. Gunseth, Jr. 2,168,883; Aug. 8.
Seed planting, seed inoculation, and fertilizer. A. C. Fischer. 2,168,332; Aug. 8.
Seeds, bulbs, tubers, and roots, Treating. G. E. Heyl. 2,168,523; Aug. 8.
Seeder. M. Aspenes. 2,168,855; Aug. 8.
Segmental former, Collapsible. H. Smith and T. Taylor. 2,168,588; Aug. 8.
Selector, Code calling. C. Miller. 2,169,158; Aug. 8.
Selector mechanism for electrical roll call or voting apparatus. C. F. Thompson. 2,168,373; Aug. 8.
Separable fastener. F. D. Banning. 2,168,598; Aug. 8.
Separator: *See*—
Oil and gas separator.
Servo-clutch. P. F. Peyruqueou. 2,168,715; Aug. 8.
Sewage, Destroying. H. H. Moreton. 2,169,160; Aug. 8.
Sewing attachment, Welt. J. Lefevre. 2,168,776; Aug. 8.
Sewing machine. J. Gouldbourn and T. A. Kestell. 2,168,568; Aug. 8.
Sewing machine. C. W. Mueller. 2,168,740; Aug. 8.
Sewing machine, Blind stitch. L. G. Bowman. 2,168,727; Aug. 8.
Sewing machine, Blind stitch. C. W. Mueller. 2,168,741; Aug. 8.
Sewing machine guard. S. Stoyanowski. 2,168,501; Aug. 8.
Shade, Laminated mesh roller. F. E. Lesley. 2,169,103; Aug. 8.
Shaver, Dry. H. H. Hoy. 2,168,823; Aug. 8.

Sheave device for derricks. J. W. Wunsch. 2,168,463; Aug. 8.
Sheet feeding apparatus. P. Cernak. 2,168,559; Aug. 8.
Sheets, tallies, cards, or the like, Sorting and classifying of flat. M. A. Johnston. 2,169,050; Aug. 8.
Shelf arrangement. L. F. Whitney. 2,168,544; Aug. 8.
Shield for goggles and sunglasses, Antiglare. J. Shyer. 2,169,075; Aug. 8.
Shifting mechanism, Gear. A. Vanderveld. 2,169,034; Aug. 8.
Shingle. J. A. Karan. 2,168,955; Aug. 8.
Shock absorber. D. D. Myers. 2,168,679; Aug. 8.
Shock absorber control for railway cars, Hydraulic. C. E. Perkins. 2,168,578; Aug. 8.
Shoe. B. Allen, Jr. 2,168,948; Aug. 8.
Shoe. E. Movsesian. 2,168,606; Aug. 8.
Shoe and making the same, Welt. L. G. Smith and W. A. Bertrand. 2,168,498; Aug. 8.
Shoe clamp. W. G. Heiber and E. R. Meng. 2,168,935; Aug. 8.
Shoe machine. J. W. Pratt. 2,168,494; Aug. 8.
Shoe tree. P. S. Jones. 2,169,151; Aug. 8.
Shutter. C. A. McIlvaine. 2,169,157; Aug. 8.
Shutter release for folding cameras. A. Nagel. 2,169,005; Aug. 8.
Side bearing. A. B. Severn. 2,169,074; Aug. 8.
Signal: *See*—
Automobile signal. Light signal.
Highway signal. Vehicle automatic signal.
Signal light switch, Automatic automobile. L. F. Carter. 2,169,088; Aug. 8.
Signal receiving system, Radio. S. M. Brasher. 2,168,923; Aug. 8.
Signal transmitting means. C. J. Fitch. 2,168,442; Aug. 8.
Signals, Device for flame. A. P. Bunt and T. G. Hitt. 2,168,698; Aug. 8.
Signaling apparatus. J. M. Pelikan. 2,168,805; Aug. 8.
Signaling means, Radio-controlled. J. A. Hassan. 2,168,602; Aug. 8.
Signaling mechanism, Vehicle. P. A. Pennock. 2,168,492; Aug. 8.
Signaling, Railway. G. R. Pflasterer. 2,168,817; Aug. 8.
Signaling, Railway. H. S. Young. 2,168,816; Aug. 8.
Signaling system. G. W. Watson. 2,168,460; Aug. 8.
Single-line feeder, Reversible. D. R. Hillis. 2,168,936; Aug. 8.
Sintered hard metal alloy. W. Dawihl and K. Schröter. 2,169,090; Aug. 8.
Size, Dry. A. C. Dreshfield. 2,168,399; Aug. 8.
Skate, Roller. W. H. Edstrom. 2,168,820; Aug. 8.
Shack adjuster. W. H. Bryant. 2,169,137; Aug. 8.
Slicing machine. A. H. Ahrndt. 2,168,612; Aug. 8.
Slide for cotton feeders, Adjustable discharge. W. L. Steinhauer. 2,168,500; Aug. 8.
Sluice gate, Shell type. C. Jimenez Lopez. 2,168,825; Aug. 8.
Smoker's dry-pipe pin. R. G. Kaufman. 42,168,410; Aug. 8.
Snow-removing device. J. Gehl. 2,168,866; Aug. 8.
Soaking machine. J. E. Johnson and H. Frey. 2,168,479; Aug. 8.
Sodium chlorate and sodium chlorite and the separation thereof, Preparation of. G. L. Cunningham. 2,169,066; Aug. 8.
Solenoid valve. W. F. Hurlburt. 2,168,774; Aug. 8.
Soles and shoes, Relatively positioning. H. S. Lyness. 2,168,485; Aug. 8.
Soles on shoe bottoms, Machine for pressing. S. J. Finn. 2,168,475; Aug. 8.
Solutions of therapeutically useful calcium compounds, Preparation of stable concentrated. R. Pasternack and E. V. Brown. 2,168,879; Aug. 8.
Solvent and solution of cellulose esters. R. L. Shuman. 2,168,587; Aug. 8.
Solvent recovery. W. W. Kraft. 2,168,570; Aug. 8.
Sound recording and reproducing apparatus. K. Daniel. 2,168,792; Aug. 8.
Sound recording disk. A. Miyata. 2,168,826; Aug. 8.
Space, Testing perception of. A. Ames, Jr. 2,168,308; Aug. 8.
Speed mechanism for bicycles, Change. J. E. Butler. 2,168,322; Aug. 8.
Spike. V. C. Armstrong. 2,169,132; Aug. 8.
Sprayer, Traction. F. R. Elliott. 2,168,821; Aug. 8.
Spring: *See*—
Rebound spring.
Stall, Service. L. Fish. 2,169,183; Aug. 8.
Stamp transfers and the like, Method and means for unremovably securing. F. W. Humphner. 2,168,989; Aug. 8.
Stand and filing rack, Combined display. H. Goldman. 2,169,095; Aug. 8.
Starch, Treating. A. C. Horesi. 2,168,524; Aug. 8.
Starting means for free pistons motor compressors. R. Paterna Pescara. 2,168,828; Aug. 8.
Steel and other metals from ore, Process and apparatus for the direct production of. A. and A. Auriol. 2,168,597; Aug. 8.
Steering gear. B. Twyman. 2,168,659; Aug. 8.
Steering mechanism. S. Johnson, Jr. 2,168,480; Aug. 8.
Sterols and the products thus obtained, Preparing derivatives of halogenated. J. Weijlard and J. R. Stevens. 2,168,379; Aug. 8.
Stock gripping means. S. B. Martin. 2,169,107; Aug. 8.
Stocking. E. C. Hinchliff. 2,169,203–4; Aug. 8.
Stop device for movable parts on rotary reprinting machines. W. Ritzerfeld. 2,168,717; Aug. 8.
Stopper for bottles, jars, and similar containers. W. S. Freeman. 2,168,734; Aug. 8.
Stove, Barbecue. C. B. Polhemus. 2,168,944; Aug. 8.
Stratiform structure impervious to liquids. E. Bentz and J. Jaenicke. 2,168,949; Aug. 8.
String instrument. C. E. Jones. 2,168,736; Aug. 8.
Stroboscopic lamp. F. W. Blackburn. 2,168,861; Aug. 8.
Stroke-increasing device. P. Repka. 2,169,126; Aug. 8.
Sulphonates, The purification of petroleum mahogany. M. Blumer. 2,168,315; Aug. 8.
Support: *See*—
Head support.
Window shade and curtain support.
Support. A. T. Reynolds and W. F. Todé. 2,168,421; Aug. 8.
Support for chair backs, Height adjustment. W. F. Herold. 2,168,620; Aug. 8.
Support for sewing machine tables. M. Rothfield. 2,168,451; Aug. 8.
Support for stocking forms. D. M. Bauer. 2,169,134; Aug. 8.
Supporting means. E. S. Preston. 2,169,125; Aug. 8.
Surface condenser. J. F. Grace. 2,168,902; Aug. 8.
Swimming gear. I. F. Redwine. 2,168,945; Aug. 8
Switch: *See*—
Electric switch. Signal light switch.
Plug type switch.
Switch for a fluid operated device. L. H. Cutting. 2,168,473; Aug. 8.
Switch for coffee roasters, Snap. L. M. Persons. 2,168,580; Aug. 8.
Switch operating apparatus, Railway. H. L. Bone. 2,168,790; Aug. 8.
Switch operating apparatus, Railway. J. I. Grammer. 2,168,796; Aug. 8.
Syringe and cartridge, Hypodermic. J. A. Saffir. 2,168,686; Aug. 8.
Table: *See*—
Folding table.
Tank stabilizer for anesthetizing machines. E. J. Stevens and J. A. Heidbrink. 2,169,082; Aug. 8.
Tank structure, Transport. J. Bernstein. 2,168,615; Aug. 8.
Tape serving machine. S. Price. 2,169,058; Aug. 8.
Telephone pay station. H. Döhle and H. Langner. 2,168,864; Aug. 8.
Telephone system. E. S. Peterson. 2,168,880–1; Aug. 8.
Teletypewriter. C. R. Doty. 2,168,441; Aug. 8.
Television method. P. T. Farnsworth. 2,168,768; Aug. 8.
Television system. A. N. Goldsmith. 2,168,566; Aug. 8.
Television system. H. J. Murray. 2,169,071; Aug. 8.
Temperature compensator. C. A. de Giers. 2,168,397; Aug. 8.
Tennis scoring device. R. H. Paul. 2,168,743; Aug. 8.
Tension control for strip mills. A. D. McCreary. 2,168,777; Aug. 8.
Tent. W. L. Mellor. 2,168,428; Aug. 8.
Tent. A. W. Middleton. 2,168,913; Aug. 8.
Testing device. L. Greely, Sr. 2,168,983; Aug. 8.
Testing the contents of the stomach and other body cavities, Method and apparatus for. H. George, III. 2,168,867; Aug. 8.
Textile material and preparing it. J. Nuessleln, G. von Finck, and H. Stärk. 2,168,535; Aug. 8.
Textile material and the material thus obtained, Waterproofing. J. Nuessleln, G. von Finck, and H. Stürk. 2,168,534; Aug. 8.
Thermostat. G. W. Whitehurst. 2,168,836; Aug. 8.
Thermostatic construction. W. F. Macdonald. 2,168,999; Aug. 8.
Thioamides and preparing the same. A. W. Ralston. 2,168,847; Aug. 8.
Throw-over, Automatic. W. C. Buttner. 2,168,701; Aug. 8.
Throttle controls for internal combustion engines. J. Lichtenstein. 2,168,958; Aug. 8.
Thrust bearing, High speed. A. Kingsbury. 2,168,345; Aug. 8.
Thrust bearing, Self-contained. W. E. Horrocks. 2,168,342; Aug. 8.
Ticket holder, Yieldable. P. H. Meyer. 2,168,912; Aug. 8.
Tie clip. J. F. Rogers. 2,168,946; Aug. 8.
Time system. C. S. Richardson. 2,168,628; Aug. 8.
Timing mechanism, Unitary thermally responsive. M. Ireland. 2,168,526; Aug. 8.
Tire building drum. H. C. Bostwick. 2,168,897; Aug. 8.
Tire, Pneumatic. J. E. Cady. 2,169,037; Aug. 8.
Tire, Pneumatic. J. R. Gammeter. 2,169,041; Aug. 8.
Toilet article, Combination. H. L. Payson. 2,168,804; Aug. 8.
Tongue protector. A. S. Hartunov and C. L. Lohner. 2,168,709; Aug. 8.
Tongue protector. C. L. Lohner and H. H. McKee. 2,168,712; Aug. 8.
Tongue protector. H. H. McKee. 2,168,713; Aug. 8.
Tongue protector. H. A. Reece. 2,168,716; Aug. 8.
Tongue protector and extractor therefor. E. R. Bursick. 2,168,728; Aug. 8.

Tongue protector, Animal-carcass. L. J. Cook. 2,168,731; Aug. 8.
Tool: *See*—
Abrading tool. Patch-making tool.
Hand tool.
Tool. J. R. Haas. 2,168,405; Aug. 8.
Tool for refacing valve seats. R. G. Smith. 2,168,753; Aug. 8.
Tool with hydraulic copying device, Machine. H. Brandenberger. 2,169,135; Aug. 8.
Tooth, Artificial. H. W. Hankinson. 2,168,953; Aug. 8.
Tooth brush. M. Strasser. 2,168,964; Aug. 8.
Torque converting and transmitting mechanism. R. Lapsley. 2,168,350; Aug. 8.
Toy airplane. I. E. Meagher, Jr. 2,168,653; Aug. 8.
Toy, Automatic diving. A. D. Ellsworth. 2,168,767; Aug. 8.
Toy, Mechanically moving. H. Biller. 2,168,788; Aug. 8.
Toy, Walking animal. R. Sleeseman. 2,168,425; Aug. 8.
Toy weapon, Sparking paper rupture. A. N. Smith. 2,168,454; Aug. 8.
Track construction, Railroad. J. A. McGrew. 2,168,676; Aug. 8.
Traffic-signal light. M. O. Speir. 2,168,831; Aug. 8.
Trailer. C. J. Anderson and J. C. McKee. 2,168,661; Aug. 8.
Trailer, Folding. S. Silverstein. 2,169,076; Aug. 8.
Train line connector. W. Kaiser and H. Balke. 2,169,068; Aug. 8.
Transmission system. F. Strecker and H. Kimmel. 2,168,589; Aug. 8.
Trap: *See*—
Air line trap. Ant trap.
Tray, Ice. J. W. Jacobs. 2,169,180; Aug. 8.
Tray, Ice. J. H. Miner. 2,168,678; Aug. 8.
Tray, Ice. J. H. Miner. 2,168,739; Aug. 8.
Trenching machine. J. H. Bosworth and O. G. Conrad. 2,169,079; Aug. 8.
Tripod head, Adjustable. B. A. Hultquist. 2,168,988; Aug. 8.
Tube: *See*—
Electron tube. X-ray tube.
Safety tube.
Tube for storage battery electrodes, Porous. G. Slayter. 2,168,366; Aug. 8.
Tubes, Sealing collapsible. C. J. Westin. 2,169,173; Aug. 8.
Tubing head. S. P. Tschappat. 2,168,591; Aug. 8.
Tuning system and apparatus, Automatic. A. A. Collins. 2,168,326; Aug. 8.
Turbine-casing joint. J. H. Doran. 2,169,092; Aug. 8.
Turbine, Double-acting wind. J. A. Johanson. 2,169,149; Aug. 8.
Type metal to spaces of line-casting machines, Apparatus to prevent adhesion of. G. D. Kellar. 2,168,412; Aug. 8.
Type metal to spaces of line-casting machines, Method and apparatus to prevent adhesion of. G. D. Kellar. 2,168,411; Aug. 8.
Typewriter with type wheel and normal keyboard. S. Loewenbuck. 2,168,824; Aug. 8.
Typewriters and other mechanisms, Actuating means for. D. A. Roberts. 2,168,886; Aug. 8.
Typewriting and computing machine, Combined. H. L. Pitman. 2,168,538; Aug. 8.
Typewriting machine. W. A. Dobson. 2,168,516?18; Aug. 8.
Typewriting machine. H. L. Pitman. 2,168,448; Aug. 8.
Vacuum cleaner. D. M. Dow. 2,168,899; Aug. 8.
Valve: *See*—
Bypass valve. Gas filler valve.
Carburetor float valve. Lubricated plug valve.
Check valve. Solenoid valve.
Valve. F. R. Goehring. 2,169,044; Aug. 8.
Valve circuits, Thermionic. E. F. Goodenough. 2,168,870; Aug. 8.
Valve protective system, Electric. H. Winograd. 2,169,202; Aug. 8.
Vapor-electric converter. J. Slepian. 2,169,032; Aug. 8.
Vaporizer, Electrical. J. Robinson. 2,168,450; Aug. 8.
Variable speed drive. L. E. Perrine. 2,168,744; Aug. 8.
Vehicle: *See*—
Automotive multiwheel vehicle.
Vehicle. K. L. Schiff. 2,168,630; Aug. 8.
Vehicle automatic signal. G. L. Reenstierna. 2,168,684; Aug. 8.
Vehicle brake. V. Nicolet and R. Rousselet. 2,168,845; Aug. 8.
Vehicle wheel. H. J. Horn. 2,169,047; Aug. 8.
Vending machine. L. M. Monlnger. 2,168,914; Aug. 8
Vessel, Hermetically sealed. W. J. Scott and W. T. Cowhig. 2,169,112; Aug. 8.
View finder for folding cameras. C. W. Crumrine. 2,168,977; Aug. 8.
Vinyl halide polymerization, Acceleration of. F. K. Schoenfeld. 2,168,808; Aug. 8.
Viscosimeter. J. M. Bell. 2,168,386; Aug. 8.
Vise, Work-holding. S. A. Huffman. 2,168,772; Aug. 8.
Voltage regulator. P. H. Craig. 2,168,952; Aug. 8.
Wagon drill. E. B. Lear. 2,168,905; Aug. 8.
Wall for railway cars, Side. G. G. Gilpin. 2,168,795; Aug. 8.
Wallboard, Method and apparatus for manufacturing. J. Page. 2,168,803; Aug. 8.
Wallpaper placement and aligning means. J. Zenewich. 2,168,505; Aug. 8.
Watch, Touch time. J. L. Blanks. 2,168,314; Aug. 8.
Water-closet seat. H. C. Leslie. 2,168,907; Aug. 8.
Water purifying and degasifying apparatus. V. A. Rohlin and C. E. Joos. 2,168,584; Aug. 8.
Water-soluble urea-formaldehyde-ethylene glycol condensation products and producing the same. T. S. Hodgins and A. G. Hovey. 2,168,477; Aug. 8.
Watt-hour meter. R. M. Leippe. 2,169,028; Aug. 8.
Wattmeter, Thermocouple. C. W. La Pierre. 2,169,101; Aug. 8.
Wax-containing materials, Separating. D. B. Mapes and E. M. Dons. 2,168,574; Aug. 8.
Waxes, Purification. S. W. Ferris. 2,168,330; Aug. 8.
Web coating apparatus. D. A. Babcock and H. E. Van Derhoef. 2,168,968; Aug. 8.
Web material, Making. E. Hurst and M. Crane. 2,168,775; Aug. 8.
Wedge for concrete tie rods. D. C. Hungerford. 2,168,991; Aug. 8.
Well drilling apparatus. A. A. Haldeman. 2,168,707; Aug. 8.
Wells, Cementing. F. M. Gilstrap and F. W. Baurmann. 2,168,735; Aug. 8.
Wheel: *See*—
Automobile steering wheel. Vehicle wheel.
Car wheel.
Wheel mounting. C. S. Schroeder. 2,169,167; Aug. 8.
Wind propelled turbine motor. J. A. Reedy. 2,169,165; Aug. 8.
Winding for high speed salient-pole machines, Damper. R. A. Baudry. 2,169,017; Aug. 8.
Window assembly. W. D. Bayley. 2,168,922; Aug. 8.
Window shade and curtain support. G. E. Lowe. 2,169,053; Aug. 8.
Windshield and window cleaner. S. Krongold. 2,169,206; Aug. 8.
Windshield, Vehicle. F. Nickola. 2,168,533; Aug. 8.
Wire, Manufacture of formed. E. W. Sawyer and R. F. Gibbs. 2,169,129; Aug. 8.
Wire, Method of and apparatus for grooving. C. K. Hill. 2,168,340; Aug. 8.
Wire twister and tightener, Combination. L. Johnson. 2,168,992; Aug. 8.
Work placing method and means for gear cutting machines. E. W. Miller. 2,168,488; Aug. 8.
Wrapper. A. Schwartz. 2,168,585; Aug. 8.
X-ray apparatus. W. M. Lee and W. H. Haupt. 2,168,801; Aug. 8.
X-ray tube. D. E. Olshevsky. 2,168,780; Aug. 8.
Yarn-feeding means. M. Richter. 2,168,884; Aug. 8.
Zirconium oxide, Making. C. J. Kinzie and D. S. Hake. 2,168,603; Aug. 8.

505 O. G.—33c

CLASSIFICATION OF PATENTS

ISSUED AUGUST 8, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 2: 2,168,416
2— 12: 2,169,075
37: 2,168,931
96: 2,168,618
111: 2,169,164
169: 2,168,819
201: 2,168,765
4— 57: 2,168,742
203: 2,169,006
237: 2,168,907
5— 62: 2,168,649
154: 2,168,982
296: 2,169,138
7— 5.5: 2,168,812
8— 55: 2,168,337
57: 2,168,335
2,168,336
64: 2,168,338
9— 17: 2,168,945
11— 1: 2,168,865
12— 33: 2,168,475
51: 2,168,471
107: 2,168,935
123: 2,168,494
128.1: 2,169,151
142: 2,168,485
2,168,498
15— 4: 2,168,692
6: 2,168,899
167: 2,168,964
212: 2,168,497
245: 2,169,206
16— 42: 2,169,145
124: 2,169,119
148: 2,169,059
17— 1: 2,168,702
2,168,708
2,168,709
2,168,712
2,168,713
2,168,716
2,168,728
2,168,731
33: 2,168,693
18— 1: 2,169,178
3: 2,168,993
12: 2,168,889
17: 2,169,146
54: 2,169,207
57: 2,168,972
58: 2,168,331
59: 2,169,177
19— 106: 2,168,775
20— 5: 2,169,136
35: 2,169,198
62: 2,168,347
99: 2,169,102
23— 3: 2,168,933
24: 2,168,603
85: 2,169,066
125: 2,168,985
207: 2,169,128
223: 2,168,312
24— 49: 2,168,946
81: 2,168,687
2,168,911
125: 2,169,111
178: 2,168,521
205: 2,168,598
259: 2,169,073
25— 38: 2,168,917
131: 2,168,714
2,168,990
2,168,991
26— 64: 2,169,169
29— 20: 2,169,129
21: 2,168,548
61: 2,169,107
67: 2,168,772
84: 2,169,063
29— 148: 2,169,056
2,169,176
152: 2,168,355
2,168,358
155.5: 2,169,020
155.55: 2,168,382
30— 43: 2,168,823
64: 2,168,447
173: 2,168,703
221: 2,168,642
32— 2: 2,168,530
3: 2,168,967
5: 2,168,546
9: 2,168,953
33— 79: 2,168,940
108: 2,168,694
206: 2,168,885
34— 24: 2,168,478
2,168,626
48: 2,168,456
35— 24: 2,168,793
34: 2,168,634
56: 2,168,787
59: 2,168,352
66: 2,168,445
36— 12: 2,168,606
57: 2,168,948
59: Re.21,173
37— 43: 2,168,866
80: 2,169,079
108: 2,169,184
126: 2,168,318
2,168,319
135: 2,168,643
180: 2,168,664
38— 66: 2,169,118
105: 2,168,813
40— 36: 2,168,723
37: 2,168,384
130: 2,169,022
41— 43: 2,168,756
42— 69: 2,169,083
70: 2,169,084
43— 42: 2,168,476
2,168,894
121: 2,168,339
44— 9: 2,169,186
46— 79: 2,168,653
94: 2,168,767
149: 2,168,425
175: 2,168,454
211: 2,168,788
47— 58: 2,168,332
2,168,523
60: Pl.Pt.336
61: Pl.Pt.337
48— 76: 2,168,652
49— 5: 2,168,833
51— 8: 2,168,650
95: 2,169,159
111: 2,168,596
160: 2,168,843
185: 2,168,488
193: 2,168,871
241: 2,168,753
52— 11: 2,168,531
2,168,562
2,168,563
53— 3: 2,168,797
4: 2,168,665
5: 2,168,390
2,168,604
6: 2,168,470
55— 9: 2,168,966
56— 7: 2,168,706
25: 2,168,738
57— 97: 2,168,449
58— 2: 2,169,099
21: 2,168,628
126: 2,168,314
59— 87: 2,168,539
60— 32: 2,168,528
35.6: 2,168,726
46: 2,168,313
52: 2,168,406
54: 2,168,862
54.5: 2,168,307
2,168,806
54.6: 2,168,710
61— 21: 2,168,341
22: 2,168,825
53: 2,168,459
70: 2,168,695
62— 3: 2,168,367
4: 2,168,545
11: 2,169,042
16: 2,168,556
2,168,557
17: 2,168,553
87: 2,168,969
108.5: 2,168,678
2,168,739
2,169,180
116: 2,168,537
2,169,115
2,169,201
126: 2,168,404
2,168,438
141: 2,169,153
63— 15: 2,168,490
65— 46: 2,168,832
53: 2,169,125
66— 9: 2,168,869
82: 2,168,398
127: 2,168,884
149: 2,169,140
163: 2,168,754
166: 2,168,755
172: 2,168,868
2,169,204
178: 2,169,203
67— 7.1: 2,168,732
22: 2,168,698
68— 62: 2,168,479
134: 2,168,887
69— 1: 2,168,452
70— 285: 2,168,621
71— 2: 2,168,550
72— 1: 2,168,725
14: 2,168,949
116: 2,168,466
130: 2,168,329
73— 51: 2,168,983
151: 2,168,720
198: 2,169,048
74— 110: 2,169,126
190.5: 2,168,956
217: 2,168,322
220: 2,169,089
230.17: 2,168,744
2,168,835
266: 2,168,600
280: 2,169,171
283: 2,168,656
348: 2,168,439
364: 2,168,667
375: 2,168,359
421: 2,168,814
473: 2,168,592
2,168,645
2,169,034
497: 2,168,659
537: 2,168,567
551.8: 2,168,930
557: 2,168,961
75— 26: 2,168,597
58: 2,168,561
67: 2,168,750
117: 2,168,542
134: 2,169,193
75— 136: 2,169,000
137: 2,169,007
76— 104: 2,168,406
78— 61: 2,168,641
80— 10: 2,168,340
32: 2,168,777
82— 12: 2,168,633
14: 2,169,135
24: 2,168,632
83— 10: 2,168,582
84— 1.12: 2,168,623
173: 2,168,736
470: 2,169,002
85— 8.5: 2,169,191
21: 2,168,854
32: 2,168,721
2,169,057
2,169,181
2,169,182
87— 9: 2,168,666
2,168,674
2,168,848
2,169,155
2,169,185
28: 2,168,789
88— 1: 2,168,637
1.5: 2,168,977
14: 2,169,004
16: 2,169,011
2,169,045
16.2: 2,168,467
16.8: 2,168,433
17: 2,168,941
18.4: 2,168,771
2,168,987
20: 2,168,308
24: 2,168,418
2,168,487
2,168,503
2,168,688
2,168,761
2,168,799
2,169,010
57: 2,169,130
90— 9: 2,168,488
24: 2,168,932
91— 10: 2,168,997
12.2: 2,168,807
13: 2,169,114
45: 2,169,078
46: 2,168,968
68: 2,168,534
2,169,199
2,169,200
70: 2,168,535
2,168,593
92— 21: 2,168,778
40: 2,168,560
42: 2,168,996
93— 1: 2,168,465
2,169,072
2: 1,168,583
2,168,651
36: 2,169,205
44.1: 2,168,543
49: 2,168,751
54: 2,168,422
94— 18: 2,168,925
45: 2,168,507
95— 2: 2,169,004
2,169,009
5.1: 2,168,444
6: 2,168,971
7: 2,169,003
31: 2,168,974
2,169,001
32: 2,169,000
53: 2,169,005
62: 2,168,483
63: 2,168,893
95— 77.5: 2,168,481
90.5: 2,168,846
94: 2,169,061
97— 72: 2,168,882
212: 2,168,733
98— 38: 2,168,783
99— 1: 2,168,360
2: 2,168,532
9: 2,168,722
2,168,724
107: 2,169,081
119: 2,168,376
136: 2,168,934
137: 2,168,980
182: 2,168,506
210: 2,168,926
259: 2,168,388
100— 44: 2,168,430
70: 2,169,036
101— 19: 2,168,763
36: 2,168,431
57: 2,168,364
93: 2,168,511
132.5: 2,168,486
2,168,717
350: 2,168,613
368: 2,168,446
102— 26: 2,168,381
29: 2,168,979
39: 2,168,482
103— 4: 2,168,669
26: 2,168,307
140: 2,168,779
153: 2,168,850
162: 2,168,658
105— 19: 2,168,995
153: 2,168,986
199: 2,168,578
375: 2,168,595
409: 2,168,795
106— 37: 2,168,587
107— 1: 2,168,389
13: 2,168,963
21: 2,168,579
48: 2,168,737
57: 2,168,391
108— 7: 2,168,955
26: 2,168,798
110— 14: 2,169,160
111— 90: 2,168,855
112— 35: 2,168,568
52: 2,168,776
176: 2,168,727
2,168,740
2,168,741
225: 2,169,124
261: 2,168,501
113— 32: 2,168,311
80: 2,168,409
112: 2,169,098
116: 2,168,876
2,168,877
120: 2,169,025
121: 2,168,565
2,169,173
114— 191: 2,169,117
116— 39: 2,168,492
173: 2,168,484
119— 18: 2,169,144
54: 2,168,745
56: 2,168,639
121— 9: 2,168,541
41: 2,169,150
58: 2,168,672
157: 2,168,711
122— 6.6: 2,169,060
68: 2,168,625
123— 55: 2,168,502
103: 2,168,605
171: 2,168,599
123— 174: 2,169,121
197: 2,169,120
124— 5: 2,168,365
126— 20: 2,168,491
29: 2,168,944
116: 2,168,749
127— 23: 2,168,524
30: 2,169,051
128— 2: 2,168,867
2.05: 2,168,890
57: 2,168,842
62: 2,168,975
192: 2,168,450
200: 2,168,573
206: 2,168,705
218: 2,168,437
2,168,686
299: 2,168,611
344: 2,168,427
129— 8: 2,168,802
16: 2,168,323
16.1: 2,169,050
130— 5: 2,169,070
6: 2,168,617
131— 11: 2,168,585
39: 2,169,166
52: 2,168,474
208: 2,168,410
132— 1: 2,168,432
32: 2,168,370
41: 2,169,021
44: 2,168,368
48: 2,168,369
76.2: 2,168,804
84: 2,168,689
133— 9: 2,168,504
134— 21: 2,168,399
24.5: 2,168,638
58.5: 2,168,888
135— 1: 2,168,913
15: 2,168,428
136— 147: 2,168,366
137— 78: 2,169,043
104: 2,168,718
139: 2,168,958
153: 2,168,536
139— 13: 2,168,385
126: 2,168,420
383: 2,168,928
420: 2,168,696
140— 119: 2,168,992
141— 9: 2,168,770
143— 38: 2,169,133
144— 304: 2,169,064
145— 50: 2,168,405
146— 101: 2,168,612
148— 8: 2,168,909
9: 2,168,581
30: 2,169,008
32: 2,169,187
2,169,188
2,169,189
2,169,190
149— 2: 2,169,147
2,169,148
152— 340: 2,169,041
342: 2,168,514
352: 2,169,037
416: 2,168,690
153— 2: 2,168,704
29: 2,169,113
54: 2,168,435
154— 1: 2,168,803
9: 2,168,588
2,168,897
33: 2,168,895
2,168,896
44: 2,168,627
155— 5: 2,168,919
2,169,197

155— 5. 20: 2,169,105
22: 2,168,424
124: 2,168,513
2,168,910
138: 2,168,810
157: 2,168,620
196: 2,169,139
198: 2,168,976
156— 10: 2,169,103
15: 2,168,811
17: Re.21,174
158— 28: 2,169,077
91: 2,168,859
104: 2,168,758
119: 2,169,174
2,169,175
159— 17: 2,168,362
161— 4: 2,168,662
16: 2,168,526
164— 18: 2,168,400
19: 2,168,401
29: 2,168,766
48: 2,168,415
60: 2,168,853
61: 2,168,394
68: 2,169,026
112: 2,168,434
113: 2,168,414
124: 2,168,377
166— 14: 2,168,591
15: 2,168,764
19: 2,168,729
21: 2,168,735
167— 68: 2,168,879
70: 2,168,657
94: 2,169,055
170— 17: 2,169,149
39: 2,169,165
171— 95: 2,169,101
2,169,116
97: 2,168,785
2,168,858
119: 2,168,952
2,169,033
242: 2,168,351
2,169,093
252: 2,169,097
2,169,100
264: 2,169,028
327: 2,168,943
172— 120: 2,169,017
239: 2,168,575
240: 2,169,024
281: 2,168,402
289: 2,169,029
173— 328: 2,169,091
332: 2,168,663
174— 23: 2,168,757
107: 2,169,108
175— 30: 2,168,769
2,169,110
363: 2,169,027
2,169,031
2,169,202
366: 2,168,462
2,169,109
176— 36: 2,169,112
55: 2,168,697
122: 2,168,861
177— 311: 2,168,407
2,168,443

177— 324: 2,168,805
329: 2,168,671
2,168,831
339: 2,168,480
353: 2,168,460
2,168,786
380: 2,169,158
178— 6: 2,169,071
7. 2: 2,168,768
7. 5: 2,168,566
2,169,179
44: 2,168,782
74: 2,168,423
81: 2,168,442
179— 1: 2,168,426
2,168,880
2,168,881
5: 2,168,320
6. 3: 2,168,864
27: 2,168,883
29: 2,168,310
100. 3: 2,169,013
110: 2,168,809
122: 2,168,569
156: 2,168,781
170: 2,168,589
171: 2,168,870
2,168,923
2,169,096
171. 5: 2,169,019
180— 22: 2,168,970
183— 2. 7: 2,169,156
15: 2,168,670
22: 2,168,472
112: 2,168,512
184— 1: 2,168,746
3: 2,168,554
2,168,577
7: 2,168,936
28: 2,168,937
76: 2,169,106
187— 29: 2,169,035
188— 5: 2,168,440
33: 2,168,845
72: 2,168,371
78: 2,168,648
2,168,700
2,168,959
79. 5: 2,168,646
2,168,950
88: 2,168,679
151: 2,168,654
202: 2,169,137
189— 46: 2,169,172
62: 2,169,157
64: 2,168,922
191— 59. 1: 2,169,154
192— . 01: 2,168,682
2,168,715
3. 2: 2,168,350
2,168,863
48: 2,168,960
105: 2,168,856
139: 2,168,326
148: 2,169,094
193— 17: 2,168,500
196— 4: 2,168,309
8: 2,168,683
11: 2,168,316
13: 2,168,691
2,168,875

196— 17: 2,168,330
18: 2,168,574
61: 2,168,610
110: 2,169,086
197— 33: 2,168,516
2,168,518
55: 2,168,824
66: 2,168,448
74: 2,168,441
97: 2,168,517
198— 20: 2,168,419
168: Re.21,172
181: 2,168,898
203: 2,168,852
204: 2,168,622
199— 62: 2,168,411
2,168,412
200— 6: 2,169,049
18: 2,169,039
59: 2,168,673
2,168,684
2,169,161
67: 2,168,580
81: 2,169,088
82: 2,168,629
89: 2,169,085
92: 2,168,373
98: 2,169,141
114: 2,168,540
2,168,586
115: 2,169,104
123: 2,168,815
126: 2,169,087
131: 2,168,791
138: 2,168,836
153: 2,168,413
159: 2,168,473
163: 2,168,747
202— 39: 2,168,570
206— 41: 2,168,918
65: 2,168,784
209— 4: 2,168,681
92: 2,168,515
107: 2,168,519
155: 2,168,942
166: 2,168,762
2,168,849
198: 2,168,619
329: 2,168,838
210— 14: 2,168,584
28: 2,168,616
31: 2,168,363
211— 134: 2,169,095
143: 2,168,544
212— 110: 2,168,393
213— 32: 2,168,408
76: 2,169,068
214— 1: 2,168,837
26: 2,168,527
215— 7: 2,168,321
44: 2,168,594
52: 2,168,734
216— 4: 2,168,505
35: 2,168,525
62: 2,168,989
2,169,062
217— 27: 2,168,317
42: 2,169,030
219— 19: 2,168,773
220— 1: 2,168,615
85: 2,168,891

220— 89: 2,169,123
221— 19: 2,168,607
2,168,608
2,168,609
47. 5: 2,168,396
51: 2,168,493
60: 2,168,822
73. 5: 2,168,701
2,169,142
102: 2,168,552
223— 77: 2,169,134
95: 2,168,647
224— 5: 2,169,080
41: 2,168,916
225— 12: 2,168,636
226— 18: 2,168,962
31: 2,168,395
80: 2,168,509
108: 2,168,380
115: 2,168,841
229— 33: 2,168,387
36: 2,169,065
92. 8: 2,168,920
92. 9: 2,168,873
230— 56: 2,168,828
2,168,829
138: 2,169,131
235— 60: 2,168,538
104: 2,168,965
115: 2,168,743
130: 2,168,457
236— 9: 2,169,168
26: 2,168,904
34: 2,168,999
91: 2,168,680
92: 2,168,564
238— 341: 2,168,324
349: 2,168,676
2,169,132
240— 8. 4: 2,168,510
41. 35: 2,168,834
60: 2,169,067
242— 5: 2,168,957
37: 2,169,170
53: 2,168,555
55: 2,169,143
71: 2,168,998
75: 2,169,016
84. 6: 2,168,938
102: 2,168,675
244— 134: 2,168,328
246— 50: 2,168,816
2,168,817
291: 2,168,790
2,168,796
248— 33: 2,168,912
44: 2,168,830
171: 2,168,710
181: 2,168,988
208: 2,168,417
263: 2,168,421
2,169,053
250— 2: 2,168,602
16: 2,168,984
20: 2,168,461
2,168,874
2,169,018
27: 2,168,760
2,169,023
27. 5: 2,168,872
2,168,892

250— 2,169,015
2,169,032
33: 2,168,857
2,168,860
2,169,040
36: 2,168,403
2,168,508
2,168,924
41. 5: 2,168,886
83: 2,168,464
87: 2,168,801
143: 2,168,780
157: 2,168,978
164: 2,169,046
251— 93: 2,168,903
119: 2,169,052
134: 2,168,774
252— 1: 2,168,468
2: 2,168,327
5: 2,168,325
8: 2,169,122
254— 86: 2,168,906
89: 2,168,624
133: 2,168,489
139: 2,168,463
161: 2,168,954
255— 23: 2,168,655
51: 2,168,522
2,168,905
71: 2,168,640
256— 13. 1: 2,168,930
257— 2: 2,168,902
3: 2,168,614
124: 2,168,549
187: 2,169,054
259— 84: 2,169,014
106: 2,168,429
260— 17: 2,168,348
60: 2,168,981
70: 2,168,477
73: 2,168,827
88: 2,168,808
140: 2,168,800
145: 2,168,571
173: 2,169,152
193: 2,169,162
210: 2,168,374
2,168,375
289: 2,168,929
337: 2,168,346
377: 2,168,947
380: 2,169,196
397: 2,168,379
2,168,685
399: 2,168,847
410: 2,169,195
451: 2,168,699
469: 2,169,012
470: 2,168,660
504: 2,168,315
533: 2,168,844
535: 2,168,878
609: 2,168,851
613: 2,168,349
671: 2,168,590
676: 2,169,192
683: 2,168,840
764: 2,168,576
262— 33: 2,168,794
263— 15: 2,169,163
47: 2,168,333

263— 48: 2,168,334
264— 3: 2,168,372
265— 11: 2,168,386
45: 2,168,353
267— 1: 2,168,558
270— 5: 2,168,547
31: 2,168,752
271— 2. 3: 2,168,572
2. 5: 2,169,058
56: 2,168,559
273— 102. 2: 2,168,644
120: 2,168,392
121: 2,169,038
274 11: 2,168,529
2,168,792
42: 2,168,826
277— 36: 2,169,044
280— 11. 23: 2,168,820
61. 5: 2,168,455
104: 2,168,630
106: 2,168,436
281— 1: 2,168,551
284— 19: 2,168,915
285— 13: 2,169,069
108: 2,169,082
129: 2,169,092
161: 2,169,194
197: 2,168,631
286— 26: 2,168,818
287— 104: 2,168,759
290— 38: 2,168,921
40: 2,168,927
292— 145: 2,168,677
158: 2,168,973
273: 2,168,453
338: 2,168,635
293— 55: 2,168,354
2,168,356
2,168,357
2,168,908
294— 3: 2,168,730
15: 2,168,520
26: 2,169,127
69: 2,168,495
295— 11: 2,168,900
296— 23: 2,168,661
35: 2,169,076
84: 2,168,533
298— 1: Re.21,171
299— 46: 2,168,821
77: 2,168,951
107. 2: 2,168,668
107. 6: 2,168,839
301— 1: 2,169,167
9: 2,169,047
303— 63: 2,168,748
308— 4: 2,168,707
61: 2,168,383
168: 2,168,343
2,168,344
2,168,345
226: 2,169,074
233: 2,168,342
236: 2,168,469
2,168,499
309— 12: 2,168,601
47: 2,168,901
311— 13: 2,168,451
312— 63: 2,168,914
113: 2,168,361
140. 4: 2,169,183

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,168,307: 103— 26
2,168,333: 263— 47
2,168,342: 308— 233
2,168,343: 308— 168
2,168,345: 308— 168
2,168,348: 260— 17
2,168,350: 192— 3.2
2,168,363: 210— 31
2,168,367: 62— 3

2,168,387: 229— 33
2,168,417: 248— 208
2,168,421: 248— 263
2,168,445: 35— 66
2,168,447: 30— 64
2,168,486: 101—132.5
2,168,512: 183— 212
2,168,524: 127— 23
2,168,526: 161— 16

2,168,576: 260— 764
2,168,607: 221— 19
2,168,608: 221— 19
2,168,610: 196— 61
2,168,623: 84— 1.12
2,168,641: 78— 61
2,168,642: 30— 221
2,168,671: 177— 329
2,168,681: 209— 4

2,168,703: 30— 173
2,168,754: 66— 163
2,168,780: 250— 143
2,168,781: 179— 156
2,168,796: 246— 191
2,168,803: 154— 1
2,168,812: 7— 5.5
2,168,863: 192— 3.2
2,168,872: 250— 27.5

2,168,894: 43— 42
2,168,938: 242— 84.6
2,168,939: 74—551.8
2,168,987: 88— 18.4
2,168,995: 105— 19
2,169,019: 179—171.5
2,169,043: 137— 78
2,169,051: 127— 30
2,169,078: 91— 45

2,169,104: 200— 115
2,169,108: 174— 107
2,169,144: 119— 18
2,169,167: 301— 1
2,169,170: 242— 37
2,169,196: 260— 380

U. S. GOVERNMENT PRINTING OFFICE: 1939

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

A. P. W. Paper Company, Inc., Albany, N. Y. Toilet tissue. Serial Nos. 420,795–7; Aug. 15. Class 37.

Acme Packing Company, Boston, Mass. Cat food. Serial No. 420,572; Aug. 15. Class 46.

Aisenstein-Woronock & Sons, Inc., New York, N. Y. Watches and watch cases. Serial No. 413,505; Aug. 15. Class 27.

Allen, S. L., & Co., Inc., Philadelphia, Pa. Skis. Serial No. 420,159; Aug. 15. Class 22.

Allen-A Company, The, Bennington, Vt. Hosiery. Serial No. 419,322; Aug. 15. Class 39.

Allied Products, Inc., New York, N. Y. Perfume and toilet water. Serial No. 420,926; Aug. 15. Class 6.

Alpren-Levinthal Corp., New York, N. Y. Piece goods. Serial No. 419,361; Aug. 15. Class 42.

Amalgamated Leather Companies, Inc., Wilmington, Del. Leather. Serial No. 420,565; Aug. 15. Class 1.

Amoskeag Pajama Co., Inc., Manchester, N. H. Pajamas, nightshirts, and underwear. Serial No. 420,357; Aug. 15. Class 39.

Arch Crown Tag & Stamping Company, Newark, N. J. Tags. Serial No. 420,511; Aug. 15. Class 37.

Auto King Battery Mfg. Co. (See Red-Bar Battery Company.)

Bamberger, L., & Co., Newark, N. J. Gloves, coats, suits, dresses, etc. Serial No. 420,084; Aug. 15. Class 39.

Basic Remedies Company, Incorporated, Grand Rivers, Ky. Homeopathic medicinal preparations. Serial No. 421,063; Aug. 15. Class 6.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets. Serial No. 415,694; Aug. 15. Class 42.

Beiersdorf, P., & Co. Inc., Long Island City, N. Y. Adhesive tape. Serial No. 419,468; Aug. 15. Class 5.

Biff Manufacturing Company. (See Leach, Arthur C.)

Biosante Chemical Specialties. (See Rodriguez, Antonio P.)

Birbeck, F. V., Watsonville, Calif. Fresh vegetables. Serial No. 420,710; Aug. 15. Class 46.

Black and Decker Manufacturing Company, The, Towson, Md. Combined polish and cleaner for automobiles. Serial No. 420,160; Aug. 15. Class 16.

Black and Decker Manufacturing Company, The, Towson, Md. Polish and cleaner for automobile bodies. Serial No. 420,309; Aug. 15. Class 16.

Bloomingdale Bros., Inc., New York, N. Y. Children's coats, suits, dresses, etc. Serial No. 416,836; Aug. 15. Class 39.

Boeke, Howard F., doing business as State Sales Co., Des Moines, Iowa. Feeds. Serial No. 419,414; Aug. 15. Class 46.

Bradley, W. F., doing business as Hidden Gold Canning Company, National City, Calif. Canned citrus and vegetable juices. Serial No. 418,806; Aug. 15. Class 46.

Caled Products Company, Inc., Cottage City, Brentwood, Md. Pharmaceutical preparations. Serial No. 418,131; Aug. 15. Class 6.

Callaway Mills, La Grange, Ga. Textile fabrics. Serial Nos. 406,495–6; Aug. 15. Class 42.

Callaway Mills, La Grange, Ga. Textile fabrics. Serial Nos. 406,499–500; Aug. 15. Class 42.

Capitol Neckwear Company, Los Angeles, Calif. Neckties, scarfs, handkerchiefs, etc. Serial No. 414,859; Aug. 15. Class 39.

Cartage Exchange of Chicago, Inc., Chicago, Ill. Publication. Serial No. 419,850; Aug. 15. Class 38.

Cemetery Legal Compass, Los Angeles, Calif. Publications. Serial No. 419,948; Aug. 15. Class 38.

Champlin, Harry, Beverly Hills, Calif. Photographic accelerator and hardening agent. Serial No. 415,765; Aug. 15. Class 6.

Chem-Alpha, Incorporated, Brooklyn, N. Y. Soot destroyers, boiler scale removers, water cleaning compounds, etc. Serial No. 403,196; Aug. 15. Class 6.

Chemische Fabrik Joh. A. Benckiser G. m. b. H., Ludwigshafen-on-the-Rhine, Germany. Chemical preparations. Serial No. 418,290; Aug. 15. Class 6.

Chrysler Corporation, Highland Park, Mich. Fluid medium for hydraulic systems and devices, anti-freezing solution, etc. Serial No. 414,590; Aug. 15. Class 6.

Cities Service Oil Company, Bartlesville, Okla. Ready mixed paints, primers, varnishes, and lacquers. Serial Nos. 419,852–4; Aug. 15. Class 16.

Cleveland Coffee Company, Houston, Tex. Coffee and tea. Serial No. 409,762; Aug. 15. Class 46.

Clifton Yarn Mills, Inc., Clifton Heights, Pa. Thread. Serial No. 420,219; Aug. 15. Class 43.

Cohn-Hall-Marx Co., New York, N. Y. Piece goods. Serial No. 417,565; Aug. 15. Class 42.

Cohn-Hall-Marx Co., New York, N. Y. Piece goods. Serial No. 420,990; Aug. 15. Class 42.

Colonial Tobacco Company. (See Griffith, Raymond F.)

Conard-Pyle Company, The, West Grove, Pa. Rose plants. Serial No. 420,897; Aug. 15. Class 1.

De Beszedits, Desiderius, New York, N. Y. Preparation for the treatment of diabetes. Serial No. 420,850; Aug. 15. Class 6.

Dixie Laboratories, Inc., Martinsville, Va. Medicinal salve or ointment. Serial No. 420,132; Aug. 15. Class 6.

Dixie Laboratories, Inc., Martinsville, Va. Liniment. Serial No. 420,133; Aug. 15. Class 6.

Dr. Pepper-Love Bottling Co. (See Love, K. C.)

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Containers and receptacles. Serial No. 416,229; Aug. 15. Class 2.

E-Z-It Products Co., Glendale, Calif. Hand cleansing cream, auto finish cleaner, pain and linoleum cleaner. Serial No. 419,716; Aug. 15. Class 4.

Eastman Kodak Company, Jersey City, N. J., and Rochester, N. Y. Photographic shutters. Serial No. 420,753; Aug. 15. Class 26.

Eclipse Lawn Mower Company, Prophetstown, Ill. Lawn mowers. Serial No. 412,088; Aug. 15. Class 23.

Edison, Thomas A., Incorporated, West Orange, N. J. Electrical switches and relays. Serial No. 418,433; Aug. 15. Class 21.

Elkhorn Novelty Co., Praise, Ky. Fruit jar holder. Serial No. 395,226; Aug. 15. Class 23.

Elsbach, C. F., San Francisco, Calif. Accounting forms and blanks. Serial No. 417,272; Aug. 15. Class 37.

Emulsol Corporation, The, Chicago, Ill. Foaming and emulsifying cleaning material. Serial No. 420,170; Aug. 15. Class 4.

Enterprise Agency, The, Charleston, W. Va. Coal. Serial Nos. 420,519–21; Aug. 15. Class 1.

Face Contour, Inc., New York, N. Y. Cleansing facial cream. Serial No. 416,506; Aug. 15. Class 6.

Fair, The, Chicago, Ill. Sheets and pillow cases. Serial No. 420,221; Aug. 15. Class 42.

Farmcraft Foods, Inc., Long Island City, N. Y. Cheese. Serial No. 419,506; Aug. 15. Class 46.

Fraser Companies, Limited, Edmundston, New Brunswick, Canada. Wood pulp and chemical pulp. Serial No. 416,084; Aug. 15. Class 1.

Fyr-Fyter Company, The, Dayton, Ohio. Chemicals. Serial No. 415,217; Aug. 15. Class 6.

General Chemical Company, New York, N. Y. Lye. Serial No. 405,494; Aug. 15. Class 6.

General Printing Ink Corporation, New York, N. Y. Printing ink. Serial No. 419,223; Aug. 15. Class 11.

Glemby Company, Inc., The, New York, N. Y. Powder scoops. Serial No. 420,480; Aug. 15. Class 23.

Glix-Brand Co., Inc., Pittsfield, Mass. Sleeping and lounging pajamas. Serial No. 420,053; Aug. 15. Class 39.

Gibberman Bros. & Co., Chicago, Ill. Suits, overcoats, and top coats. Serial Nos. 420,317–18; Aug. 15. Class 39.

Giroux Company, Inc., New York, N. Y. Non-fattening substitute for French dressing. Serial No. 420,757; Aug. 15. Class 46.

Gossard, H. W., Co., The, Chicago, Ill. Corsets, girdles, and combination corsets and brassières. Serial No. 420,319; Aug. 15. Class 39.

Gratz, Wm. R., Import Company, New York, N. Y. Reeds for musical instruments. Serial No. 420,763; Aug. 15. Class 36.

Gray & Company, Portland, Oreg. Beverages, and syrups and extracts for making the same. Serial No. 399,757; Aug. 15. Class 45.

Griffith, Raymond F., doing business as Colonial Tobacco Company, St. Louis, Mo. Smoking tobacco. Serial No. 420,636; Aug. 15. Class 17.

Grosvenor, C. A., Shoe Co., Worcester, Mass. Men's leather slippers. Serial No. 420,250; Aug. 15. Class 39.

Gumakers of America, Inc., Clifton Heights, Pa. Chewing gum. Serial No. 420,718; Aug. 15. Class 46.

H. C. H. Co., Sauk City, Wis. Milk powder. Serial No. 419,804; Aug. 15. Class 46.

Haase, A. C. L., Company, St. Louis, Mo. Cherries in glass, canned stringless beans, canned peas, etc. Serial No. 420,674; Aug. 15. Class 46.

Haloid Company, The, Rochester, N. Y. Light sensitive paper. Serial No. 420,675; Aug. 15. Class 26.

Hardin's Bakery, Tuscaloosa, Ala. Bread. Serial No. 393,535; Aug. 15. Class 46.

Harrower Laboratory, Inc., The, Glendale, Calif. Medicinal preparation. Serial No. 420,817; Aug. 15. Class 6.

Hart Products Corporation, The, New York, N. Y. Soaps and soap preparations. Serial No. 420,456; Aug. 15. Class 4.

Haynes, Lyle H., Peoria, Ill. Electric lighting fixtures, direct and indirect current, electric motors and supports therefor, etc. Serial No. 406,183; Aug. 15. Class 21.

Hidden Gold Canning Company. (See Bradley, W. F.)
Hygienic Products Company, The, Canton, Ohio. Cleaning powder. Serial Nos. 413,673–4; Aug. 15. Class 4.
I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Emulsion breakers and inhibitors. Serial No. 417,874; Aug. 15. Class 6.
Interwoven Stocking Company, New Brunswick, N. J. Hosiery. Serial No. 420,375; Aug. 15. Class 39.
Ivins', J. S., Son, Inc., Philadelphia, Pa. Spiced wafers. Serial No. 413,226; Aug. 15. Class 46.
James, George, Company, The, Boston, Mass. Leather soles and half soles. Serial No. 418,668; Aug. 15. Class 39.
Jeffrey Manufacturing Company, The, Columbus, Ohio. Equipment used for the flocculation of turbid water, sewage, and industrial wastes. Serial No. 414,697; Aug. 15. Class 23.
Kaufmann Department Stores, Inc., Pittsburgh, Pa. Dresses, frocks, suits, etc. Serial No. 420,062; Aug. 15. Class 39.
Key Publishing Co., Inc., The, New York, N. Y. Publication. Serial No. 419,428; Aug. 15. Class 38.
Kinderman, J., & Sons, Philadelphia, Pa. Sticky fly paper. Serial No. 420,638; Aug. 15. Class 50.
Knox Company, The, Los Angeles, Calif. Preparations for the stimulation of metabolism and the reduction of excessive weight. Serial No. 418,581; Aug. 15. Class 6.
Knox Company, The, Los Angeles, Calif. Preparations for the treatment of catarrh, catarrhal congestion, colds, etc. Serial No. 418,582; Aug. 15. Class 6.
Kro-Zel Products, Plainfield, N. J. Nail and cuticle contioner. Serial No. 420,490; Aug. 15. Class 6.
La Crosse Rubber Mills Co., La Crosse, Wis. Rubbers or overshoes. Serial No. 420,418; Aug. 15. Class 39.
Lanvin Parfums, Inc., Wilmington, Del., and New York, N. Y. Perfumes. Serial No. 421,309; Aug. 15. Class 6.
Laver, Joseph, Paris, France. Pharmaceutical products, medicinal products. Serial No. 417,498; Aug. 15. Class 6.
Leach, Arthur C., doing business as Biff Manufacturing Company, Pueblo, Colo. Brooms, brushes, dusters, and mops. Serial No. 420,738; Aug. 15. Class 29.
Leader Card Works, Inc., Milwaukee, Wis. Blank announcements, envelopes, and cards. Serial No. 404,993; Aug. 15. Class 37.
Lee, Frank H., Company, The, Danbury, Conn. Hats. Serial No. 390,523; Aug. 15. Class 39.
Levy, Charles, Paterson, N. J. Table syrup. Serial No. 410,037; Aug. 15. Class 46.
Liebner, Joseph L., Philadelphia, Pa. Soldering paste. Serial No. 420,868; Aug. 15. Class 6.
Love, K. C., doing business as Dr. Pepper-Love Bottling Co., Muskogee, Okla. Beverages, and syrups, extracts, and flavors used in making the same. Serial No. 420,825; Aug. 15. Class 45.
Lucas, John, and Company, Incorporated, Philadelphia, Pa. Varnish type product. Serial No. 419,385; Aug. 15. Class 16.
Lundbeck, H., & Co., Copenhagen, Denmark. Preparation for the treatment of cuts, bruises, burns, etc. Serial No. 415,045; Aug. 15. Class 6.
Lung, Chue, & Co. (See Man, Lee K.)
Maimon, B., and Sons, Incorporated, Philadelphia, Pa. Topcoats. Serial No. 418,111; Aug. 15. Class 39.
Man, Lee K., doing business as Chue Lung & Co., Los Angeles, Calif. Soy, meat sauce, and pickles. Serial No. 410,698; Aug. 15. Class 46.
Maritime Milling Co. Inc., Buffalo, N. Y. Dog food. Serial No. 418,932; Aug. 15. Class 46.
Master Laboratories, Inc., Omaha, Nebr. Medical preparation for dogs and other animals. Serial No. 416,807; Aug. 15. Class 6.
May Way Mills, Inc., Kansas City, Mo. Feed. Serial No. 419,355; Aug. 15. Class 46.
Mermaid Products Corporation, Chicago, Ill. Fish sausages. Serial No. 419,672; Aug. 15. Class 46.
McKay, David, Company, Philadelphia, Pa. Publication. Serial No. 419,304; Aug. 15. Class 38.
Midi Inc., Los Angeles, Calif. Massage and reducing lotion. Serial No. 421,194; Aug. 15. Class 6.
Mode Knitting Mills, Inc., The, Chicago, Ill. Knitted gloves and mittens. Serial No. 419,524; Aug. 15. Class 39.
Monroe Chemical Company, Quincy, Ill. Perfumed bath preparation. Serial No. 417,768; Aug. 15. Class 6.
Mouratoglou, Mourat, Hollidays Cove, W. Va. Laxative preparations. Serial No. 399,803; Aug. 15. Class 6.
Muller, C. H. F., Aktiengesellschaft, Berlin, Germany. X-ray apparatus and supplies therefor. Serial No. 417,231; Aug. 15. Class 44.
National Modes, Inc., New York, N. Y. Fashion periodical. Serial No. 417,059; Aug. 15. Class 38.
National Oil Products Company, Harrison, N. J. Sulfated and sulfonated organic materials. Serial No. 420,596; Aug. 15. Class 6.
Neiman-Marcus Company, Dallas, Tex. Children's clothes. Serial No. 419,494; Aug. 15. Class 39.
New England Confectionery Company, Cambridge, Mass. Candy. Serial No. 420,597; Aug. 15. Class 46.
New Jaunty Sportswear, Inc., New York, N. Y. Coats, suits, skirts, etc. Serial No. 419,307; Aug. 15. Class 39.
Niere, Herman, St. Louis, Mo. Termites destroying paste. Serial No. 410,473; Aug. 15. Class 6.
Nye-Walt Company, Inc., Auburn, N. Y. Rugs and carpets. Serial No. 420,828; Aug. 15. Class 42.
Osmose Wood Preserving Co. of America, Inc., Buffalo, N. Y. Chemical compositions for impregnating and preserving wood. Serial No. 413,955; Aug. 15. Class 6.
P. M. D. Laboratories, Inc., Los Angeles, Calif. Pharmaceutical preparation. Serial No. 418,083; Aug. 15. Class 6.
Parents' Institute, Inc., The, New York, N. Y. Column or section in a monthly magazine. Serial No. 419,487; Aug. 15. Class 38.
Pecheur Lozenge Company, Inc., Brooklyn, N. Y. Candy. Serial No. 410,002; Aug. 15. Class 46.
"Pegebe" Präparatengesellschaft m. b. H., assignor to Dr. Rudolf Reiss, Rheumasan- und Lenicet-Fabrik, Berlin, Germany. Pharmaceutical preparation for treatment of obesity. Serial No. 406,729; Aug. 15. Class 6.
Pen-Sa Sales Co., The, Union, N. J. Soft drinks and carbonated beverages, and syrups and concentrates for making the same. Serial No. 420,885; Aug. 15. Class 45.
Petrol Corporation, The, Los Angeles, Calif. Gasoline. Serial No. 419,875; Aug. 15. Class 15.
Quaker Oats Company, The, Chicago, Ill. Breakfast cereals. Serial No. 404,488; Aug. 15. Class 46.
Rangette Company, St. Louis, Mo. Electric cook stoves. Serial No. 420,690; Aug. 15. Class 21.
Red-Bar Battery Company, doing business as Auto King Battery Mfg. Co., Dayton, Ohio. Electric storage batteries and battery parts. Serial No. 408,898; Aug. 15. Class 21.
Red Dot Foods, Inc., Madison, Wis. Potato chips. Serial No. 419,445; Aug. 15. Class 46.
Reiss, Dr. Rudolf, Rheumasan- und Lenicet-Fabrik. (See "Pegebe" Präparatengesellschaft m. b. H., assignor.)
Remington Rand Inc., Buffalo, N. Y. Massage appliances, nail trimmers, and buffers. Serial No. 400,470; Aug. 15. Class 44.
Riverside & Dan River Cotton Mills, Inc., Danville, Va. Piece goods. Serial No. 421,011; Aug. 15. Class 42.
Rodriguez, Antonio P., doing business as Biosante Chemical Specialties, New York, N. Y. Medicinal preparations. Serial No. 420,970; Aug. 15. Class 6.
Rubin, Samuel, New York, N. Y. Perfume. Serial No. 420,876; Aug. 15. Class 6.
Rüegger & Co., Zofingen, Switzerland. Men's knitted undervests, undershirts, drawers, etc. Serial No. 417,388; Aug. 15. Class 39.
Scully, James D., Philadelphia, Pa. Barbers' hair dusting brushes. Serial No. 420,830; Aug. 15. Class 29.
Sears, Roebuck and Co., Chicago, Ill. Electric storage batteries. Serial No. 406,943; Aug. 15. Class 21.
Seeburg, J. P., Corporation, Chicago, Ill. Phonographs. Serial No. 420,693; Aug. 15. Class 36.
Seley, Louis E., Brooklyn, N. Y. Refrigerant. Serial No. 417,591; Aug. 15. Class 6.
Seymour-Avery Manufacturing Company, Chicago, Ill. Ladies' and children's slips. Serial No. 419,772; Aug. 15. Class 39.
Smith & Gregory, Amarillo, Tex. Metal coating preparation. Serial No. 415,268; Aug. 15. Class 6.
Smith, V. R., doing business as V. R. Smith Olive Company, Lindsay, Calif. Canned olives. Serial No. 403,788; Aug. 15. Class 46.
Snug Anchorage Laboratory. (See Sweeney, Victoria B.)
Soc. An. Egidio Galbani, Melzo, Milan, Italy. Cheese. Serial Nos. 397,384–5; Aug. 15. Class 46.
Solomon, Bernard M., doing business as Tankar Filling Stations, Montgomery, Ala. Fuel oil. Serial No. 418,119; Aug. 15. Class 15.
Standard Chemical Mfg. Co., Omaha, Nebr. Granular mineral to be mixed with live stock feed, medicated food, etc. Serial No. 415,421; Aug. 15. Class 6.
State Sales Co. (See Boeke, Howard F.)
Stearns, Frederick, & Company, Detroit, Mich. Product indicated as a laxative and cathartic. Serial No. 421,298; Aug. 15. Class 6.
Steiner-Liberty Corporation, Baltimore, Md. Night robes and pajamas. Serial No. 415,801; Aug. 15. Class 39.
Stentor Publishing Company, Philadelphia, Pa. Magazine. Serial No. 417,351; Aug. 15. Class 38.
Stephano Brothers, Philadelphia, Pa. Smoking and cigarette tobacco. Serial No. 420,293; Aug. 15. Class 17.
Sterilized Products Corporation, New York, N. Y. Food product. Serial No. 419,738; Aug. 15. Class 46.
Stewart-Warner Corporation, Chicago, Ill. Radio receiving sets. Serial No. 420,698; Aug. 15. Class 21.
Swank Products, Inc., Attleboro, Mass. Monograms and other character mountings. Serial No. 419,351; Aug 15. Class 28.
Sylvania Industrial Corporation, Fredericksburg, Va., and New York, N. Y. Rayon staple fibre. Serial No. 419,280; Aug. 15. Class 1.
Sylvania Industrial Corporation, Fredericksburg, Va., and New York, N. Y. Adhesive. Serial No. 420,150; Aug. 15. Class 5.
Sweeney, Victoria B., doing business as Snug Anchorage Laboratory, Waterbury, Conn. Preparation to be applied to dentures. Serial No. 419,400; Aug. 15. Class 6.
Talco Asphalt and Refining Company, Mt. Pleasant, Tex. Paving and roofing asphalts. Serial No. 418,993; Aug. 15. Class 12.
Tankar Filling Stations. (See Solomon, Bernard M.)

Textile Machine Works, Reading, Pa. Knitting machines and parts thereof and attachments therefor, topping machines, and parts thereof and accessories therefor, etc. Serial No. 418,121; Aug. 15. Class 23.
Tower, A. J., Company, Boston, Mass. Rubber-coated garments. Serial No. 420,077; Aug. 15. Class 39.
Triangle Conduit & Cable Co., Inc., Elmhurst, N. Y. Insulated electric wire of all types. Serial No. 418,018; Aug. 15. Class 21.
United States Gypsum Company, Chicago, Ill. Metallic clips for attachment of building boards. Serial No. 408,359; Aug. 15. Class 12.
United States Plywood Corporation, New York, N. Y. Veneers and plywood panels. Serial No. 417,149; Aug. 15. Class 12.
United Wall Paper Factories, Inc., Chicago, Ill. Wall paper. Serial No. 420,733; Aug. 15. Class 37.
Upjohn Company, The, Kalamazoo, Mich. Medcinal substances. Serial No. 421,015; Aug. 15. Class 6.
West Disinfecting Co., Long Island City, N. Y. Rat exterminator. Serial No. 416,823; Aug. 15. Class 6.
Witte, Albert, Evanston, Cincinnati, Ohio. Combination of several chemical substances in powder form, used on a hot fire to elliminate carbon and soot-scale from boilers. Serial No. 416,824; Aug. 15. Class 6.
Wadsworth & Woodman Company, New York, N. Y. Oilcloth. Serial Nos. 418,661–2; Aug. 15. Class 20.
Waterbury Lock & Specialty Company, The, Milford, Conn. Tape measures. Serial No. 420,655; Aug. 15. Class 26.

LIST OF REGISTRANTS OF TRADE-MARKS

Adirondack Foundries and Steel, Inc., Watervliet, N. Y. Castings of ferrous metals. 370,087; Aug. 15; Serial No. 416,935; published June 6, 1939. Class 14.
Albemarle Paper Manufacturing Company, The, Richmond, Va. Blotting-paper. 128,592; renewed Jan. 13, 1940.
American Abrasive Metals Company, New York, N. Y. Construction materials. 128,594; renewed Jan. 13, 1940.
American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y., to The American Sugar Refining Company, New York, N. Y. Icing for use as a food. 126,237; renewed Aug. 19, 1939.
American Sugar Refining Company, The, Jersey City, N. J., and New York, N. Y., to The American Sugar Refining Company, New York, N. Y. Honey. 126,377; renewed Aug. 26, 1939.
Amerise, William, also doing business as Hazelton Macaroni Co., Hazelton, Pa. Tomato paste, macaroni, canned fish, etc. 370,048; Aug. 15; Serial No. 412,245; published June 6, 1939. Class 46.
Androscoggin Mills, Lewiston, Maine. Cotton piece goods. 126,129; renewed Dec. 23, 1939.
Auto Radiator Manufacturing Co., Chicago, Ill. Electric direction signals, and switches for such signals. 370,059; Aug. 15; Serial No. 414,617; published June 6, 1939. Class 21.
Ayer, Harriet Hubbard, New York, N. Y. Pharmaceutical preparations for toilet purposes. 126,384; renewed Aug. 26, 1939.
Bamberger, L., & Co., Newark, N. J. Golf balls. 370,143; Aug. 15; Serial No. 418,761; published June 6, 1939. Class 22.
Beacon Manufacturing Company, Swannanoa, N. C. Blankets. 370,153–5; Aug. 15. Class 42.
Beach-Nut Packing Company, Canajoharie, N. Y. Gingerale. 128,621; renewed Jan. 13, 1940.
Beggs, C. W., Sons & Company, Chicago, Ill. Cosmetics. 127,809; renewed Dec. 9, 1939.
Bell Garment Manufacturing Corporation, San Antonio, Tex. Articles of wearing apparel for children. 370,083; Aug. 15; Serial No. 416,678; published May 30, 1939. Class 39.
Bernstein Manufacturing Company, Philadelphia, to Komfo Products Corporation, Allentown, Pa., successor. Bedsteads. 128,223; renewed Dec. 30, 1939.
Berry Clothing Corporation, New York, N. Y. Clothing. 370,089; Aug. 15; Serial No. 417,079; published May 30, 1939. Class 39.
Bloomingdale Bros., Inc., New York, N. Y. Hot water bottles and syringes. 370,140; Aug. 15; Serial No. 418,510; published June 6, 1939. Class 44.
Bonwit Teller, Inc., New York, N. Y. Dresses, teagowns, coats, etc. 370,130; Aug. 15; Serial No. 418,075; published June 6, 1939. Class 39.
Bralden, William A., Antonito, Colo. Beef cattle. 370,029; Aug. 15; Serial No. 398,385; published June 6, 1939. Class 46.
Brigham-Hopkins Company, Baltimore, Md. Hats for men. 128,642; renewed Jan. 13, 1940.
Brown, L. L., Paper Company, Adams, Mass. Paper and stationery. 128,318; renewed Jan. 6, 1940.
Brunsviga-Maschinenwerke Grimme, Natalis & Co. Akt.-Ges., Brunswick, Germany. Calculating and adding machines. 370,065; Aug. 15; Serial No. 415,581; published June 6, 1939. Class 26.
Burger Brewing Company, The, Cincinnati, Ohio. Beer. 370,022; Aug. 15; Serial No. 381,835; published Aug. 24, 1937. Class 48.
Burgess Supply Co., Inc., New York, N. Y. Paste for use in the manufacture of confectionery. 370,091; Aug. 15; Serial No. 417,115; published June 6, 1939. Class 46.
Bush Brothers & Company, Dandridge, Tex. Canned sauerkraut. 370,158; Aug. 15. Class 46.
Callaway, C. C., Jr., Atlanta, Ga. Maltless carbonated beverages, syrups, and extracts. 370,097; Aug. 15; Serial No. 417,258; published June 6, 1939. Class 45.
Central Breweries, Inc., East St. Louis, Ill. Beer. 370,028; Aug. 15; Serial No. 402,510; published June 6, 1939. Class 48.
Charak Furniture Company, Boston, Mass. Furniture. 370,132; Aug. 15; Serial No. 418,132; published June 6, 1939. Class 32.
Chemical Products Co. (See Weiss, Harold T.)
Chicago Musical Instrument Company, Chicago, Ill. Phonographs and combination radio-phonographs. 370,098; Aug. 15; Serial No. 417,262; published June 6, 1939. Class 36.
Clayton Manufacturing Company, The, Bristol, Conn. Scissors and shears. 370,148; Aug. 15. Class 23.
Coast Fishing Company, Wilmington, Calif. Canned tuna fish flakes. 370,118; Aug. 15; Serial No. 417,746; published June 6, 1939. Class 46.
Colt-Cromwell Company, Inc., Stoughton, Mass. Boots, shoes and slippers. 370,039; Aug. 15; Serial No. 409,807; published Feb. 14, 1939. Class 39.
Commonwealth Brass Corporation, Detroit, Mich. Metallic radiator-valves. 127,217; renewed Oct. 28, 1939.
Consumers Biscuit Company, New Orleans, La., assignor to Loose-Wiles Biscuit Company, Kansas City, Mo. Biscuit. 127,179; renewed Oct. 21, 1939.
Countess Mara, Inc. (See Whitman, Lucilla D.)
Courtaulds, Limited, London, England. Rayon piece goods. 370,107; Aug. 15; Serial No. 417,489; published June 6, 1939. Class 42.
Christie-Lucas Company, Rochester, N. Y. Paper drill. 370,136; Aug. 15; Serial No. 418,186; published June 6, 1939. Class 23.
Crown Overall Mfg. Co., The, Cincinnati, Ohio. Overalls. 128,351; renewed Jan. 6, 1940.
Crown Rubber Company, Los Angeles, Calif. Sheath prophylactics. 370,141; Aug. 15; Serial No. 418,565; published June 6, 1939. Class 44.
Crown Specialties, Inc., Newark, N. J. Carpet sweepers. 370,102; Aug. 15; Serial No. 417,360; published June 6, 1939. Class 23.
Curvlite Products, Inc., New York, N. Y. Surgical retractors, tongue depressors, cheek retractors, etc. 370,094; Aug. 15; Serial No. 417,203; published June 6, 1939. Class 44.
Daniels, Ward, Montalvo, Calif. Fresh citrus fruits. 370,073; Aug. 15; Serial No. 416,250; published June 6, 1939. Class 46.
Distillerie de la Suze (Société Anonyme), Maisons-Alfort, France. Alcoholic liqueurs. 370,057; Aug. 15; Serial No. 414,184; published June 6, 1939. Class 49.
Dittlinger, H., Roller Mills Company, New Braunfels, Tex. Wheat-flour. 128,676; renewed Jan. 13, 1940.
Donougher, Ernest, doing business as E. Donougher Cocoanut Products Co., San Francisco, Calif. Syrup extracted from cocoanuts. 370,090; Aug. 15; Serial No. 417,085; published June 6, 1939. Class 46.
Dougherty's, J. A., Sons, Inc., Distillers, Philadelphia, Pa. Whiskey. 370,160; Aug. 15. Class 49.
Drapesette Necktie Corporation, New York, N. Y. Neckties and cut-out necktie linings. 370,031; Aug. 15; Serial No. 403,584; published May 30, 1939. Class 39.
Druggists' Supply Corporation, New York, N. Y. Combs. 370,060; Aug. 15; Serial No. 414,653; published June 6, 1939. Class 40.
Eastern Manufacturing Company, New York, N. Y. Reply card letterheads. 370,052; Aug. 15; Serial No. 413,301; published May 30, 1939. Class 37.
Eastern Manufacturing Company, assignor, by mesne assignments, to Eastern Manufacturing Company, Bangor, Maine. Paper and cardboard. 127,227; renewed Oct. 28, 1939.
Electro Acoustic Products Co., Fort Wayne, Ind. Phonograph, combination recording and projecting phonograph, supplies and attachments thereof. 370,032; Aug. 15; Serial No. 404,206; published June 6, 1939. Class 36.
Empire Electric Brake Corporation, Dover, Del. Brakes and parts thereof. 370,029; Aug. 15; Serial No. 402,721; published May 3, 1938. Class 23.
Epco Manufacturing Company, Inc., South Bend, Ind. Electric lamps. 370,084; Aug. 15; Serial No. 416,797; published June 6, 1939. Class 21.
Fabergé, Inc., New York, N. Y. Powder brushes. 370,157; Aug. 15. Class 29.
Farmers Federation Inc., Asheville, N. C. Dresses, coats, skirts, etc. 370,024; Aug. 15; Serial No. 390,642; published June 6, 1939. Class 39.
Fashioncraft, Inc., Cambridge, Mass. Raincoats. 370,055; Aug. 15; Serial No. 413,932; published May 30, 1939. Class 39.

Field and Flint Co., Brockton, Mass. Shoes. 370,125–6; Aug. 15; Serial Nos. 417,999–418,000; published May 30, 1939. Class 39.

Food Service, The, Decatur, Ill. Food products. 370,095; Aug. 15; Serial No. 417,209; published June 6, 1939. Class 46.

Forest Paper Company, Inc., New York, N. Y. Paper and envelops. 128,977; renewed Jan. 20, 1940.

Fort Massac Chair Company, The, Metropolis, Ill. Combined tables and chairs. 370,142; Aug. 15; Serial No. 418,708; published June 6, 1939. Class 32.

Frigid Process Company. (See Rasmusson, Marlin B.)

Garco Products Inc., Butler, Pa. Comminuted material embodying silicates. 370,075; Aug. 15; Serial No. 416,322; published May 30, 1939. Class 1.

Gardner, Lehr & Fitch, Inc. (See Mills & Gibb Corporation.)

Garfinkel & Ritter, New York, N. Y. Chemises, panties, night-gowns, etc. 370,108–11; Aug. 15; Serial Nos. 417,529–32; published June 6, 1939. Class 39.

Gebhardt Chili Powder Company, San Antonio, Tex. Canned tamales. 370,069; Aug. 15; Serial No. 415,983; published June 6, 1939. Class 46.

General Cable Corporation, New York, N. Y. Insulated electrical wires and cables. 370,036; Aug. 15; Serial No. 404,703; published June 6, 1939. Class 21.

Glemby Company, Inc., The, New York, N. Y. Hair goods. 370,133; Aug. 15; Serial No. 418,145; published June 6, 1939. Class 40.

Golden, Seymour S., doing business as Seymour S. Golden Co., New York, N. Y. Piece goods. 370,023; Aug. 15; Serial No. 390,208; published June 6, 1939. Class 42.

Goodrich, B. F., Company, The, New York, N. Y. Pneumatic vehicle tires. 370,144; Aug. 15; Serial No. 418,776; published June 6, 1939. Class 35.

Grossman, H. J., Mount Carmel, Pa. Hosiery and underwear. 370,113; Aug. 15; Serial No. 417,572; published May 30, 1939. Class 37.

Hain, Harold, doing business as Hain Pure Food Co., Los Angeles, Calif. Gelatin dessert and pudding preparation. 370,025; Aug. 15; Serial No. 392,924; published June 6, 1939. Class 46.

Hazleton Macaroni Co. (See Amerise, William.)

Hecker, George V., Estate of, assignor, by mesne assignments, to Standard Milling Company, New York, N. Y. Flour. 16,842; re-renewed July 23, 1939.

Heinzkill, John, doing business as John Heinzkill Soap Works, Appleton, Wis. Cheese rennet. 370,062; Aug. 15; Serial No. 414,950; published June 6, 1939. Class 46.

Hepworth & Grandage Limited, Bradford, England. Engine pistons. 370,058; Aug. 15; Serial No. 414,565; published June 6, 1939. Class 23.

Hermes, S. A., Paris, France. Toilet sets and sewing sets and their contents. 370,082; Aug. 15; Serial No. 416,561; published May 30, 1939. Class 40.

Hickory Grove Coal Mining Corporation, Rochester, N. Y. Coal. 370,035; Aug. 15; Serial No. 404,312; published May 30, 1939. Class 1.

Hickory Overall Company, Hickory, N. C. Overalls, shirts, and hunting apparel. 370,066; Aug. 15; Serial No. 415,595; published May 30, 1939. Class 39.

Kaplan, Charles M., Philadelphia, Pa. Shoes. 128,745; renewed Jan. 13, 1940.

Kessler, Louis, doing business as Novelty Games Co., New York, N. Y. Card number game. 370,134; Aug. 15; Serial No. 418,155; published June 6, 1939. Class 22.

Komfo Products Corporation. (See Bernstein Manufacturing Company.)

La Habra Citrus Association, La Habra, Calif. Oranges and lemons. 128,246; renewed Dec. 30, 1939.

Lees, Joseph S., Los Angeles, Calif. Hair wave turbans. 370,086; Aug. 15; Serial No. 416,857; published May 30, 1939. Class 40.

Licoreria Marin Inc., Mayaguez, P. R. Distilled alcoholic spirits. 370,145; Aug. 15; Serial No. 418,843; published June 6, 1939. Class 49.

Lodge Plugs Limited, Rugby, England. Ceramic insulators for sparking plugs. 370,078; Aug. 15; Serial No. 416,469; published June 6, 1939. Class 21.

Loose-Wiles Biscuit Company. (See Consumers Biscuit Company, assignor.)

Lucerne Cream and Butter Company, The, Oakland, Calif. Eggs. 370,056; Aug. 15; Serial No. 413,996; published June 6, 1939. Class 46.

Lucerne Cream and Butter Company, The, also doing business as Lucerne Cream and Butter Company, Oakland, Calif. Eggs. 370,064; Aug. 15; Serial No. 415,404; published June 6, 1939. Class 46.

MacGregor, Bertha L., as trustee. (See Roessner, William L.)

Man-Sew Pinking Attachment Corp., New York, N. Y. Pinking machines and parts thereof. 370,106; Aug. 15; Serial No. 417,466; published June 6, 1939. Class 23.

Man-Sew Pinking Attachment Corp., New York, N. Y. Pinking machines and parts thereof. 370,112; Aug. 15; Serial No. 417,546; published June 6, 1939. Class 23.

Marshall Field & Company, Chicago, Ill. Woven rugs and woven carpets. 127,966; renewed Dec. 16, 1939.

Martin, H. H., Products Corporation, Toledo, Ohio. Bottle closures. 370,079; Aug. 15; Serial No. 416,470; published May 30, 1939. Class 50.

Mason, Au & Magenheimer Conf. Mfg. Co., Brooklyn, to Mason, Au & Magenheimer Confectionery Manufacturing Company, New York, N. Y. Candies and chocolates. 128,451; renewed Jan. 6, 1940.

Mason Shoe Manufacturing Company, Chippewa Falls, Wis. Footwear. 370,120; Aug. 15; Serial No. 417,884; published May 30, 1939. Class 39.

McCrory Stores Corporation, New York, N. Y. Dress shields. 370,121–2; Aug. 15; Serial Nos. 417,885–6; published May 30, 1939. Class 40.

Meadow Park Clothes, Inc., New York, N. Y. Men's and younger men's clothing. 370,070; Aug. 15; Serial No. 416,014; published May 30, 1939. Class 39.

Mellow Brand Products Co. (See Ortega, Manuel.)

Metakloth Company, Lodi, N. J. Cotton piece goods and woven cotton fabrics. 370,037; Aug. 15; Serial No. 405,173; published June 6, 1939. Class 42.

Meyer, Fred, Inc., Portland, Oreg. Hot water bottles, fountain syringes, and combination bottle and syringe. 370,049; Aug. 15; Serial No. 412,652; published June 6, 1939. Class 44.

Mill Agents and Distributors, Inc., Oakland, Calif. Paper. 370,045; Aug. 15; Serial No. 411,129; published May 30, 1939. Class 37.

Mills & Gibb Corporation, to Gardner, Lehr & Fitch, Inc., New York, N. Y., successor. Piece goods. 127,967; renewed Dec. 16, 1939.

Mitchellace, Incorporated, Portsmouth, Ohio. Shoe laces. 370,085; Aug. 15; Serial No. 416,811; published June 6, 1939. Class 40.

Monroe Coal Mining Company, Cambria Township, Cambria County, and Philadelphia, Pa., to Monroe Coal Mining Company, Philadelphia, Pa. Coal. 126,319; renewed Aug. 19, 1939.

Municipal Liquor Stores Association, Minneapolis, Minn. Whiskies, gin, brandy, etc. 370,050; Aug. 15; Serial No. 412,824; published June 13, 1939. Class 49.

Murphy, Harold J., doing business as Murphy Products Co., Gouverneur, N. Y. Louse and flea powder. 370,040; Aug. 15; Serial No. 410,405; published Nov. 22, 1938. Class 6.

Nash Engineering Company, The, South Norwalk, Conn. Air compressors. 370,161; Aug. 15. Class 23.

Novelty Games Co. (See Kessler, Louis.)

Nutex Company, The, Philadelphia, Pa. Razors and razor blades. 370,077; Aug. 15; Serial No. 416,381; published June 6, 1939. Class 23.

Ohio Truss Company, The, Cincinnati, Ohio. Trusses and truss pads. 370,159; Aug. 15. Class 44.

Old Dutch Brewers, Inc., Brooklyn, N. Y. Beers and ales. 370,103; Aug. 15; Serial No. 417,385; published June 6, 1939. Class 48.

Olive Tablet Company, The, Columbus, Ohio. Tablets containing olive-oil. 128,807; renewed Jan. 13, 1940.

Ortega, Manuel, doing business as Mellow Brand Products Co., New York, N. Y. Syrups. 370,038; Aug. 15; Serial No. 407,739; published June 6, 1939. Class 46.

Paglinccio Products Co. (See Pastene & Co., Inc.)

Pastene & Co., Inc., also doing business as Paglinccio Products Co. and Splendor Products Co., New York, N. Y. Canned vegetables and canned tomato paste. 370,027; Aug. 15; Serial No. 402,201; published June 6, 1939. Class 46.

Peravia S. A., Bern, Switzerland. Speedometers, fuel quantity gauges, manifold pressure gauges, etc. 370,041; Aug. 15; Serial No. 410,705; published June 6, 1939. Class 26.

Peravia S. A., Bern, Switzerland. Magneto generators, including coils and switch apparatus. 370,042; Aug. 15; Serial No. 410,706; published June 6, 1939. Class 21.

Phipps Hat Works, Incorporated, New York, N. Y. Ladies' hats. 370,092; Aug. 15; Serial No. 417,141; published June 6, 1939. Class 39.

Pillsbury Flour Mills Company, Minneapolis, Minn. Prepared mixture for the making of cakes, rolls, doughnuts, etc. 370,115; Aug. 15; Serial No. 417,676; published June 6, 1939. Class 46.

Pudark and Thompson, Chicago, Ill. Electric dry shavers. 370,127; Aug. 15; Serial No. 418,059; published June 6, 1939. Class 23.

Queen Quality Boot Shop, Inc., Washington, D. C. Ladies' shoes. 370,061; Aug. 15; Serial No. 414,830; published May 30, 1939. Class 39.

Ralphs-Pugh Company, Inc., San Francisco, Calif. Leather garments. 370,072; Aug. 15; Serial No. 416,205; published May 30, 1939. Class 39.

Rasmusson, Marlin B., doing business as Frigid Process Company, Sacramento, Calif. Fruit ices. 370,047; Aug. 15; Serial No. 411,793; published June 6, 1939. Class 46.

Red Head Brand Company, Chicago, Ill. Caps, coats, pants, etc. 370,063; Aug. 15; Serial No. 415,139; published May 30, 1939. Class 39.

Red Jacket Manufacturing Company, Davenport, Iowa. Water systems, pumps, etc. 370,044; Aug. 15; Serial No. 411,038; published June 6, 1939. Class 23.

Richmond, Ila, Chicago, Ill. Ladies' hats, fur coats, fur scarfs, etc. 370,152; Aug. 15. Class 39.

Richter & Phillips Company, The, Cincinnati, Ohio. Watches. 370,151; Aug. 15. Class 27.

Roessner, William L., doing business as Y-Burn, assignor to B. L. MacGregor, Chicago, Ill., as trustee. Portable fire extinguishers. 370,128–9; Aug. 15; Serial Nos. 418,061–2; published June 6, 1939. Class 23.

Rossie, J., Velvet Company, The, Mystic, Conn. Pile fabrics in the piece. 370,100; Aug. 15; Serial No. 417,347; published June 6, 1939. Class 42.

Royal Knitting Mills, Inc., Chicago, Ill. Mittens and gloves. 370,051; Aug. 15; Serial No. 413,200; published May 9, 1939. Class 39.

Russell Manufacturing Company, The, Middletown, Conn. Woven belts for military equipment. 127,676; renewed Nov. 18, 1939.

Saks & Company, New York, N. Y. Misses' dresses, coats, suits, and hats. 370,093; Aug. 15; Serial No. 417,153; published May 30, 1939. Class 39.

Saks & Company, New York, N. Y. Shoes. 370,104; Aug. 15; Serial No. 417,389; published May 30, 1939. Class 39.

Saudess Manufacturing Company, Philadelphia, Pa. Piece goods of wool. 370,114; Aug. 15; Serial No. 417,627; published June 6, 1939. Class 42.

Sandler, A., Co., Boston, Mass. Shoes. 370,119; Aug. 15; Serial No. 417,783; published May 30, 1939. Class 39.

Sanifect Company, The, Newark, N. J. Deodorizer and disinfectant. 126,772; renewed Sept. 30, 1939.

Sealy, Incorporated, Pittsburgh, Pa. Mattresses, mattress foundation units, and box springs. 370,139; Aug. 15; Serial No. 418,451; published June 6, 1939. Class 32.

Selsi Company, Inc., New York, N. Y. Prism binoculars and monoculars, sport glasses, etc. 370,135; Aug. 15; Serial No. 418,170; published June 6, 1939. Class 26.

Serfis Glove Corp., New York, N. Y. Gloves. 370,067; Aug. 15; Serial No. 415,918; published May 30, 1939. Class 39.

Schiff, Henry T., Chicago, Ill. Electric razors. 370,071; Aug. 15; Serial No. 416,113; published June 6, 1939. Class 23.

Schoenfeld, H., & Sons, Inc., New York, N. Y. Spices. 370,054; Aug. 15; Serial No. 413,488; published June 6, 1939. Class 46.

Sheffield Gage Corporation, The, Dayton, Ohio. Gauging devices. 370,033–4; Aug. 15; Serial Nos. 404,269–70; published June 6, 1939. Class 26.

Shepard, Omar H., doing business as Shepard Battery Co., Bridgeport, Conn. Storage batteries. 370,096; Aug. 15; Serial No. 417,237; published June 6, 1939. Class 21.

Siegman, Arthur, Inc., New York, N. Y. Neckties. 370,053; Aug. 15; Serial No. 413,322; published May 30, 1939. Class 39.

Smooth-Fit Brassiere Co., Inc., New York, N. Y. Brassières, girdles, and slips. 370,080–1; Aug. 15; Serial Nos. 416,521–2; published June 6, 1939. Class 39.

Snap-On Tools Corporation, Kenosha, Wis. Wrenches, screwdrivers, and hand turning tools. 370,099; Aug. 15; Serial No. 417,309; published June 6, 1939. Class 23.

Spear, Alfred, Providence, R. I. Emblems and badges. 128,176; renewed Dec. 23, 1939.

Splendor Products Co. (See Pastene & Co., Inc.)

Standard Milling Company. (See Hecker, George V., Estate of, assignor.)

Stetson, John B., Company, Philadelphia, Pa. Women's hats. 370,068; Aug. 15; Serial No. 415,966; published Apr. 25, 1939. Class 39.

Superior Felt & Bedding Company, Chicago, Ill. Mattresses. 370,147; Aug. 15; Serial No. 418,902; published June 6, 1939. Class 32.

Swift and Company, Chicago, Ill. Soap. 128,535; renewed Jan. 6, 1940.

Synero Devices, Incorporated, Detroit, Mich. Games and game apparatus. 370,146; Aug. 15; Serial No. 418,857; published June 6, 1939. Class 22.

Tabin-Picker & Company, Chicago, Ill. Rayon piece goods. 370,076; Aug. 15; Serial No. 416,347; published June 6, 1939. Class 42.

Teague-McKevett Association, Santa Paula, Calif. Fresh citrus fruit. 370,116–17; Aug. 15; Serial Nos. 417,716–17; published June 6, 1939. Class 46.

Transit Grain & Commission Company, Fort Worth, Tex. Poultry and stock feed. 370,123; Aug. 15; Serial No. 417,895; published June 6, 1939. Class 46.

United American Metals Corporation, Brooklyn, N. Y. Babbitt metal. 128,882; renewed Jan. 13, 1940.

United States Rubber Company, New York, N. Y. Gaskets and sheet packing. 370,138; Aug. 15; Serial No. 418,377; published June 6, 1939. Class 35.

Ward, Bernard G., and Clarence E. Wernitsch, Portland, Oreg. Identification tags. 370,046; Aug. 15; Serial No. 411,727; published May 30, 1939. Class 50.

Waterbury Clock Company, Waterbury, Conn. Mechanical pencils. 370,149; Aug. 15. Class 37.

Wayne Pump Company, The, Fort Wayne, Ind. Lubricating pumps, lubricating tanks, air compressors, etc. 370,043; Aug. 15; Serial No. 410,759; published June 6, 1939. Class 23.

Weiss, Harold T., doing business as Chemical Products Co., Los Angeles, Calif. Air-flow dispensers. 370,150; Aug. 15. Class 2.

Wernitsch, Clarence E. (See Ward, Bernard G., and Clarence E. Wernitsch.)

West Virginia Pulp & Paper Company, New York, N. Y. Bond-paper. 128,575; renewed Jan. 6, 1940.

Western Hair Goods Company, Chicago, Ill. Face-cream, face-powder, and toilet waters. 128,899; renewed Jan. 13, 1940.

Westpfal, Albert, New York, N. Y. Furrier's blades. 370,156; Aug. 15. Class 23.

Whitman, Lucilla D., assignor to Countess Mara, Inc., New York, N. Y. Neckties. 370,030; Aug. 15; Serial No. 402,882; published May 30, 1939. Class 39.

Wohl Shoe Company, St. Louis, Mo. Leather dance slippers. 370,131; Aug. 15; Serial No. 418,081; published June 6, 1939. Class 39.

Wolf & Barse, Inc., New York, N. Y. Suits, jackets, skirts, etc. 370,101; Aug. 15; Serial No. 417,354; published May 30, 1939. Class 39.

Wood, Gar, Industries, Inc., Detroit, Mich. Endless belt, portable conveyors. 370,105; Aug. 15; Serial No. 417,450; published June 6, 1939. Class 23.

Wright & McGill Co., Denver, Colo. Fish hooks. 370,137; Aug. 15; Serial No. 418,323; published June 6, 1939. Class 22.

Y-Burn. (See Roessner, William L.)

Yorke Beverages, Inc., The, Yonkers, N. Y. Maltless beverages, syrups, extracts, etc. 370,088; Aug. 15; Serial No. 417,073; published June 6, 1939. Class 45.

Yorkshire Dyeing & Proofing Co. Limited, The, Middleton, England. Piece goods. 370,074; Aug. 15; Serial No. 416,303; published June 6, 1939. Class 42.

Zenith Radio Corporation, Chicago, Ill. Talking machine records. 370,124; Aug. 15; Serial No. 417,993; published June 6, 1939. Class 36.

LIST OF REGISTRANTS OF LABELS

Bird & Son, Inc., East Walpole, Mass. De Luxe Mode. For Cartons. 53,372; Aug. 15.

Cingros, Joseph F., doing business as Per-Fek Products, Chicago, Ill. Hollywood. For Artificial Finger Nails. 53,373; Aug. 15.

Cowan, Harry B., Los Angeles, Calif. Kant-Mist Glass Cleaner. For a Glass Cleaner. 53,374; Aug. 15.

General Mills, Inc., Minneapolis, Minn. Kix. For Breakfast Cereal. 53,375; Aug. 15.

Hefley, Chas., doing business as Chas. Hefley Popcorn Products, Los Angeles, Calif. School Days. For Popped Popcorn. 53,376; Aug. 15.

Hooper, W. F., Oklahoma City, Okla. Bile Preparation. For a Bile Preparation. 53,377; Aug. 15.

Hornor, Harold, Mount Holly, N. J. Love Apples. For Tomatoes. 53,378; Aug. 15.

Mactavish Preserves Co., Elmhurst, Long Island, N. Y. Mactavish Orange Marmalade Bitter-Sweet. For Orange Marmalade. 53,379; Aug. 15.

Mars Incorporated, Chicago, Ill. Snickers. For Candy. 53,380; Aug. 15.

Mars Incorporated, Chicago, Ill. Mars, a Toasted Almond Bar. For Candy. 53,381; Aug. 15.

Mars Incorporated, Chicago, Ill. Vanilla Forever Yours Milky Way. For Candy. 53,382; Aug. 15.

Mars Incorporated, Chicago, Ill. Milky Way Chocolate. For Candy. 53,383; Aug. 15.

Nachman Spring-Filled Corp., Chicago, Ill. Nachman Resilatex Construction. For Mattresses. 53,384; Aug. 15.

Paris Neckwear Co. Inc., The, New York, N. Y. Meccador Ties. For Ties. 53,385; Aug. 15.

Per-Fek Products. (See Cingros, Joseph F.)

Roberts Dairy Co., Sioux City, Iowa, and Omaha and Lincoln, Nebr. Roberts Unsweetened Evaporated Milk. For Unsweetened Evaporated Milk. 53,386; Aug. 15.

Schlitz, Jos., Brewing Company, Milwaukee, Wis. Schlitz Quick-Rip Seal. For Beer. 53,387; Aug. 15.

Snuggle Rug Co., Goshen, Ind. Grows with the Child. For Children's Garments. 53,388; Aug. 15.

Snuggle Rug Co., Goshen, Ind. Grows as Baby Grows. For Children's Garment. 53,389; Aug. 15.

Stewart & Ross Corporation, Long Island City, N. Y. Corvet A B D G Vitamin Capsules. For Vitamin Capsules. 53,390–1; Aug. 15.

Taylor, K., Distilling Co., Inc., The, Frankfort, Ky. Golden Bantam. For Kentucky Straight Bourbon Whisky. 53,392; Aug. 15.

Taylor, K., Distilling Co., Inc., The, Frankfort, Ky. 99. For Kentucky Straight Bourbon Whisky. 53,393; Aug. 15.

Taylor, K., Distilling Co., Inc., The, Frankfort, Ky. Royal Springs. For Kentucky Straight Bourbon Whisky. 53,394; Aug. 15.

Titus, James A., doing business as Wye-Tone Distributors, Detroit, Mich. Wye-Tone. For a Medicine Used to Help Purify and Tone the Systems of Men, Women and Children and for Use as a Laxative. 53,395; Aug. 15.

Tobacco By-Products & Chemical Corporation, Incorporated, Louisville, Ky. "Black Leaf" Dual-Fixed Nicotine Dust. For Dual-Fixed Nicotine Dust. 53,396; Aug. 15.
Townsend National Weekly, Inc., Chicago, Ill. Townsend Club. For Stationery. 53,397; Aug. 15.
Wye-Tone Distributors. (See Titus, James A.)
Young, Alexander, Distilling Co., Philadelphia, Pa. Young's Blue Label Y. P. M. For Blended Whiskey. 53,398; Aug. 15.
Young, George, doing business as George Young and Son, Los Angeles, Calif. Red Book. For California Vegetables. 53,399; Aug. 15.
Young, W. F., Inc., Springfield, Mass. Absorbine Jr. For an Antiseptic For Relief of Sore Muscles, Superficial Cuts, Bruises, Burns, Sunburn, Bites of Small Insects, Aches and Pains that Can Be Reached by External Applications. 53,400; Aug. 15.
Young, W. F., Inc., Springfield, Mass. Absorbine Jr. For a Preparation for Relief of Sore Muscles, Superficial Cuts, Bruises, Burns, Sunburn, Bites of Small Insects, Aches aid Pains that Can Be Reached by External Applications. 53,401; Aug. 15.

LIST OF REGISTRANTS OF PRINTS

Dragert, C. H., Company, Inc., Brooklyn, N. Y. Chromlead the New Chromium-Metallic Lead Process. For a Chromized Metallic Lead Used as a Rust Inhibitor. 17,533; Aug. 15.
Jones, Tom, Montpelier, Vt. Tyme Memorials. For Memorials. 17,534; Aug. 15.
Puritan Knitting Mills Corp., Altoona, Pa. Ready-to-Run Newspaper Ads That Will Sell More Sweaters! For Cardigans and Sweaters. 17,535; Aug. 15.
Rohland, Curt J., Providence, R. I. Swingtest, the Fascinating Instructive Practice Game for Good Golf. For a Game. 17,536; Aug. 15.
Savinien, Francis P., Los Angeles, Calif. Kalifat. For Publications. 17,537; Aug. 15.
Stewart & Ross Corporation, Long Island City, N. Y. Vitamins and Health. For Vitamin Capsules. 17,538; Aug. 15.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coal. Hickory Grove Coal Mining Corporation. 370,035; Aug. 15; Serial No. 404,312; published May 30, 1939.
Coal. Monroe Coal Mining Company. 126,319; renewed Aug. 19, 1939.
Material embodying silicates, Comminuted. Garco Products Inc. 370,075; Aug. 15; Serial No. 416,322; published May 30, 1939.

CLASS 2

Dispensers, Air-flow. H. T. Weiss. 370,150; Aug. 15.

CLASS 4

Soap. Swift and Company. 128,535; renewed Jan. 6, 1940.

CLASS 6

Batteries, Storage. O. H. Shepard. 370,096; Aug. 15; Serial No. 417,237; published June 6, 1939.
Cosmetics. C. W. Beggs, Sons & Company. 127,809; renewed Dec. 9, 1939.
Cream and powder, and toilet waters. Western Hair Goods Company. 128,899; renewed Jan. 13, 1940.
Deodorizer and disinfectant. Sanifect Company. 126,772; renewed Sept. 30, 1939.
Pharmaceutical preparations. Harriet Hubbard Ayer. 126,384; renewed Aug. 26, 1939.
Powder, Louse and flea. H. J. Murphy. 370,040; Aug. 15; Serial No. 410,405; published Nov. 22, 1938.
Tablets containing olive-oil. Olive Tablet Company. 128,807; renewed Jan. 13, 1940.

CLASS 9

Belts for military equipment, Woven. Russell Manufacturing Company. 127,676; renewed Nov. 18, 1939.

CLASS 12

Construction materials. American Abrasive Metals Company. 128,594; renewed Jan. 13, 1940.

CLASS 14

Castings of ferrous metals. Adirondack Foundries and Steel, Inc. 370,087; Aug. 15; Serial No. 416,935; published June 6, 1939.
Metal, Babbitt. United American Metals Corporation. 128,882; Jan. 13, 1940.

CLASS 21

Electrical wires and cables, Insulated. General Cable Corporation. 370,036; Aug. 15; Serial No. 404,703; published June 6, 1939.
Insulators for sparking plugs, Ceramic. Lodge Plugs Limited. 370,078; Aug. 15; Serial No. 416,469; published June 6, 1939.
Lamps, Electric. Epco Manufacturing Company. 370,084; Aug. 15; Serial No. 416,797; published June 6, 1939.
Magneto generators, including coils and switch apparatus. Peravia S. A. 370,042; Aug. 15; Serial No. 410,706; published June 6, 1939.
Signals, and switches for such signals, Electric direction. Auto Radiator Manufacturing Co. 370,059; Aug. 15; Serial No. 414,617; published June 6, 1939.

CLASS 22

Fish hooks. Wright & McGill Co. 370,137; Aug. 15; Serial No. 418,323; published June 6, 1939.
Game, Card number. L. Kessler. 370,134; Aug. 15; Serial No. 418,155; published June 6, 1939.
Games and game apparatus. Syncro Devices, Incorporated. 370,146; Aug. 15; Serial No. 418,857; published June 6, 1939.
Golf balls. L. Bamberger & Co. 370,143; Aug. 15; Serial No. 418,761; published June 6, 1939.

CLASS 23

Blades, Furrier's. A. Westpfal. 370,156; Aug. 15.
Brakes and parts thereof. Empire Electric Brake Corporation. 370,029; Aug. 15; Serial No. 402,721; published May 3, 1938.
Compressors, Air. Nash Engineering Company. 370,161; Aug. 15.
Conveyors, Endless belt portable. Gar Wood Industries, Inc. 370,105; Aug. 15; Serial No. 417,450; published June 6, 1939.
Drill, Paper. Christie-Lucas Company. 370,136; Aug. 15; Serial No. 418,186; published June 6, 1939.
Engine pistons. Hepworth & Grandage Limited. 370,058; Aug. 15; Serial No. 414,565; published June 6, 1939.
Fire extinguishers, Portable. W. L. Roessner. 370,128–9; Aug. 15; Serial No. 418,061–2; published June 6, 1939.
Pinking machines and parts thereof. Man-Sew Pinking Attachment Corp. 370,106; Aug. 15; Serial No. 417,466; published June 6, 1939.
Pinking machines and parts thereof. Man-Sew Pinking Attachment Corp. 370,112; Aug. 15; Serial No. 417,546; published June 6, 1939.
Pumps, lubricating tanks, air compressors, etc., Lubricating. Wayne Pump Company. 370,043; Aug. 15; Serial No. 410,759; published June 6, 1939.
Razors and razor blades. Nutex Company. 370,077; Aug. 15; Serial No. 416,381; published June 6, 1939.
Razors, Electric. H. T. Schiff. 370,071; Aug. 15; Serial No. 416,113; published June 6, 1939.
Scissors and shears. Clayton Manufacturing Company. 370,148; Aug. 15.
Shavers, Electric dry. Pudark and Thompson. 370,127; Aug. 15; Serial No. 418,059; published June 6, 1939.
Sweepers, Carpet. Crown Specialties, Inc. 370,102; Aug. 15; Serial No. 417,360; published June 6, 1939.
Water systems, pumps, etc. Red Jacket Manufacturing Company. 370,044; Aug. 15; Serial No. 411,038; published June 6, 1939.
Wrenches, screwdrivers, and hand turning tools. Snap-On Tools Corporation. 370,099; Aug. 15; Serial No. 417,309; published June 6, 1939.

CLASS 26

Binoculars and monoculars, sport glasses, etc., Prism. Seisi Company. 370,135; Aug. 15; Serial No. 418,170; published June 6, 1939.
Calculating and adding machines. Brunsviga-Maschinenwerke Grimme, Natalis & Co. Akt.-Ges. 370,065; Aug. 15; Serial No. 415,581; published June 6, 1939.
Gauging devices. Sheffield Gage Corporation. 370,033–4; Aug. 15; Serial No. 404,269–70; published June 6, 1939.
Speedometers, fuel quantity gauges, manifold pressure gauges, etc. Peravia S. A. 370,041; Aug. 15; Serial No. 410,705; published June 6, 1939.

CLASS 27

Watches. Richter & Phillips Company. 370,151; Aug. 15.

CLASS 28

Emblems and badges. A. Spear. 128,176; renewed Dec. 23, 1939.

CLASS 29

Brushes, Powder. Fabergé, Inc. 370,157; Aug. 15.

CLASS 32

Bedsteads. Bernstein Manufacturing Company. 128,223; renewed Dec. 30, 1939.
Furniture. Charak Furniture Company. 370,132; Aug. 15, 1939; Serial No. 418,132; published June 6, 1939.
Mattresses. Superior Felt & Bedding Company. 370,147; Aug. 15; Serial No. 418,902; published June 6, 1939.
Mattresses, mattress foundation units, and box springs. Sealy, Incorporated. 370,139; Aug. 15; Serial No. 418,451; published June 6, 1939.
Tables and chairs, Combined. Fort Massac Chair Company. 370,142; Aug. 15; Serial No. 418,708; published June 6, 1939.

CLASS 34

Radiator-valves, Metallic. Commonwealth Brass Corporation. 127,217; renewed Oct. 28, 1939.

CLASS 35

Gaskets and sheet packing. United Sates Rubber Company. 370,138; Aug. 15; Serial No. 418,377; published June 6, 1939.
Tires, Pneumatic vehicle. B. F. Goodrich Company. 370,144; Aug. 15; Serial No. 418,776; published June 6, 1939.

CLASS 36

Phonograph, combination recording and projecting phonograph, supplies and attachments therefor. Electro Acoustic Products Co. 370,032; Aug. 15; Serial No. 404,206; published June 6, 1939.
Phonographs and combination radio-phonographs. Chicago Musical Instrument Company. 370,098; Aug. 15; Serial No. 417,262; published June 6, 1939.
Records, Talking machine. Zenith Radio Corporation. 370,124; Aug. 15; Serial No. 417,993; published June 6, 1939.

CLASS 37

Hosiery and underwear. H. J. Grossman. 370,113; Aug. 15; Serial No. 417,572; published May 30, 1939.
Letterheads, Reply card. Eastern Manufacturing Company. 370,052; Aug. 15; Serial No. 413,301; published May 30, 1939.
Paper. Mill Agents and Distributors, Inc. 370,045; Aug. 15; Serial No. 411,129; published May 30, 1939.
Paper and cardboard. Eastern Manufacturing Company. 127,227; renewel Oct. 28, 1939.
Paper and envelops. Forest Paper Company. 128,977; renewed Jan. 20, 1940.
Paper and stationary. L. L. Brown Paper Company. 128,318; renewed Jan. 6, 1940.
Paper, Blotting. Albemarle Paper Manufacturing Company. 128,592; renewed Jan. 13, 1940.
Paper, Bond. West Virginia Pulp & Paper Company. 128,575; renewed Jan. 6, 1940.
Pencils, Mechanical. Waterbury Clock Company. 370,149; Aug. 15.

CLASS 39

Articles of wearing apparel for children. Bell Garment Manufacturing Corporation. 370,083; Aug. 15; Serial No. 416,678; published May 30, 1939.
Boots, shoes and slippers. Colt-Cromwell Company. 370,039; Aug. 15; Serial No. 409,807; published Feb. 14, 1939.
Brassières, girdles, and slips. Smooth-Fit Brassiere Co. 370,080–1; Aug. 15; Serial No. 416,521–2; published June 6, 1939.
Caps, coats, pants, etc. Red Head Brand Company. 370,063; Aug. 15; Serial No. 415,139; published May 30, 1939.
Chemises, panties, night-gowns, etc. Garfinckel & Ritter. 370,108–11; Aug. 15; Serial No. 417,529–32; published June 6, 1939.
Clothing. Berry Clothing Corporation. 370,089; Aug. 15; Serial No. 417,079; published May 30, 1939.
Clothing, Men's and younger men's. Meadow Park Clothes, Inc. 370,070; Aug. 15; Serial No. 416,014; published May 30, 1939.
Dresses, coats, skirts, etc. Farmers Federation Inc. 370,024; Aug. 15; Serial No. 390,642; published June 6, 1939.
Dresses, coats, suits, and hats, Misses'. Saks & Company. 370,093; Aug. 15; Serial No. 417,153; published May 30, 1939.
Dresses, teagowns, coats, etc. Bonwit Teller, Inc. 370,130; Aug. 15; Serial No. 418,075; published June 6, 1939.
Footwear. Mason Shoe Manufacturing Company. 370,120; Aug. 15; Serial No. 417,884; published May 30, 1939.
Garments, Leather. Ralphs-Pugh Company. 370,072; Aug. 15; Serial No. 416,205; published May 30, 1939.
Gloves. Sercls Glove Corp. 370,067; Aug. 15; Serial No. 415,918; published May 30, 1939.
Hats for men. Brigham-Hopkins Company. 128,642; renewed Jan. 13, 1940.
Hats, fur coats, fur scarfs, etc., Ladies'. I. Richmond. 370,152; Aug. 15.
Hats, Ladies'. Phipps Hat Works, Incorporated. 370,092; Aug. 15; Serial No. 417,141; published June 6, 1939.
Hats, Women's. John B. Stetson Company. 370,068; Aug. 15; Serial No. 415,966; published Apr. 25, 1939.
Mittens, and gloves. Royal Knitting Mills, Inc. 370,051; Aug. 15; Serial No. 413,200; published May 9, 1939.
Neckties. Arthur Siegman, Inc. 370,053; Aug. 15; Serial No. 413,322; published May 30, 1939.
Neckties. L. D. Whitman. 370,030; Aug. 15; Serial No. 402,882; published May 30, 1939.
Neckties and cut-out necktie linings. Drapesette Necktie Corporation. 370,031; Aug. 15; Serial No. 403,584; published May 30, 1939.
Overalls. Crown Overall Mfg. Co. 128,351; renewed Jan. 6, 1940.
Overalls, Shirts, and hunting apparel. Hickory Overall Company. 370,066; Aug. 15; Serial No. 415,595; published May 30, 1939.
Raincoats. Fashioncraft, Inc. 370,055; Aug. 15; Serial No. 413,932; published May 30, 1939.
Shoes. Field and Flint Co. 370,125–6; Aug. 15; Serial Nos. 417,999–418,000; published May 30, 1939.
Shoes. C. M. Kaplan. 128,745; renewed Jan. 13, 1940.
Shoes. Saks & Company. 370,104; Aug. 15; Serial No. 417,389; published May 30, 1939.
Shoes. A. Sandler Co. 370,119; Aug. 15; Serial No. 417,783; published May 30, 1939.
Shoes, Ladies'. Queen Quality Boot Shop, Inc. 370,061; Aug. 15; Serial No. 414,830; published May 30, 1939.
Slippers, Leather dance. Wohl Shoe Company. 370,131; Aug. 15; Serial No. 418,081; published Jun 6, 1939.
Suits, jackets, skirts, etc. Wolf & Barse, Inc. 370,101; Aug. 15; Serial No. 417,354; published May 30, 1939.
Combs. Druggests' Supply Corporation. 370,060; Aug. 15; Serial No. 414,653; published June 6, 1939.
Hair goods. Glemby Company. 370,133; Aug. 15; Serial No. 418,145; published June 6, 1939.
Hair wave turbans. J. S. Lees. 370,086; Aug. 15; Serial No. 416,857; published May 30, 1939.
Laces, Shoe. Mitchellace, Incorporated. 370,085; Aug. 15; Serial No. 416,811; published June 6, 1939.
Shields, Dress. McCrory Stores Corporation. 370,121–2; Aug. 15; Serial Nos. 417,885–6; published May 30, 1939.
Toilet sets and sewing sets and their contents. Hermes, S. A. 370,082; Aug. 15; Serial No. 416,561; published May 30, 1939.
Blankets. Beacon Manufacturing Company. 370,153–5; Aug. 15.
Cotton piece goods. Androscoggin Mills. 128,129; renewed Dec. 23, 1939.
Cotton piece goods and woven cotton fabrics. Metakloth Company. 370,037; Aug. 15; Serial No. 405,173; published June 6, 1939.
Fabrics in the piece, Pile. J. Rossie Velvet Company. 370,100; Aug. 15; Serial No. 417,347; published June 6, 1939.
Piece goods. S. S. Golden. 370,023; Aug. 15; Serial No. 390,208; published June 6, 1939.
Piece goods. Mills & Gibb Corporation. 127,967; renewed Dec. 16, 1939.
Piece goods. Yorkshire Dyeing & Proofing Co. Limited. 370,074; Aug. 15; Serial No. 416,303; published June 6, 1939.
Piece goods of wool. Sandess Manufacturing Company. 370,114; Aug. 15; Serial No. 417,627; published June 6, 1939.
Rayon piece goods. Courtaulds, Limited. 370,107; Aug. 15, 1939; Serial No. 417,489; published June 6, 1939.
Rayon piece goods. Tabin-Picker & Company. 370,076; Aug. 15; Serial No. 416,347; published June 6, 1939.
Rugs and carpets, Woven. Marshall Field & Company. 127,966; renewed Dec. 16, 1939.
Bottles and syringes, Hot water. Bloomingdale Bros., Inc. 370,140; Aug. 15; Serial No. 418,510; published June 6, 1939.
Bottles, fountain syringes, and combination bottle and syringe, Hot water. Fred Meyer, Inc. 370,049; Aug. 15; Serial No. 412,652; published June 6, 1939.
Phophylactics, Sheath. Crown Rubber Company. 370,141; Aug. 15; Serial No. 418,565; published June 6, 1939.
Surgical retractors, tongue depressors, cheek retractors, etc. Curvlite Products, Inc. 270,094; Aug. 15; Serial No. 417,203; published June 6, 1939.
Trusses and truss pads. Ohio Truss Company. 370,159; Aug. 15, 1939.

CLASS 45

Beverages, syrups, and extracts, Maltless. C. C. Callaway, Jr. 370,097; Aug. Serial No. 417,258; published June 6, 1939.
Beverages, syrup, extracts, etc. Maltless. Yorke Beverages, Inc. 370,088; Aug. 15; Serial No. 417,073; published June 6, 1939.
Ginger-ale. Beech-Nut Packing Company. 128,621; renewed Jan. 13, 1940.

CLASS 46

Biscuit. Consumers Biscuit Company. 127,179; renewed Oct. 21, 1939.

Candies and chocolates. Mason, Au & Magenheimer Conf. Mfg. Co. 128,451; renewed Jan. 6, 1940.
Canned sauerkraut. Bush Brothers & Company. 370,158; Aug. 15.
Canned tamales. Gebhardt Chili Powder Company. 370,069; Aug. 15; Serial No. 415,983; published June 6, 1939.
Canned tuna fish flakes. Coast Fishing Company. 370,118; Aug. 15; Serial No. 417,746; published June 6, 1939.
Canned vegetables and canned tomato paste. Pastene & Co. 370,027; Aug. 15; Serial No. 402,201; published June 6, 1939.
Cattle, Beef. W. A. Braiden. 370,026; Aug. 15; Serial No. 398,385; published June 6, 1939.
Cheese rennet. J. Heinzkill. 370,062; Aug. 15; Serial No. 414,950; published June 6, 1939.
Eggs. Lucerne Cream and Butter Company. 370,056; Aug. 15; Serial No. 413,996; published June 6, 1939.
Eggs. Lucerne Cream and Butter Company. 370,064; Aug. 15; Serial No. 415,404; published June 6, 1939.
Feed, Poultry and stock. Transit Grain & Commission Company. 370,123; Aug. 15; Serial No. 417,895; published June 6, 1939.
Flour. G. V. Hecker. 16,842; re-renewed July 23, 1939.
Flour, Wheat. H. Dittlinger Roller Mills Company. 128,676; renewed Jan. 13, 1940.
Food products. Food Service. 370,095; Aug. 15; Serial No. 417,209; published June 6, 1939.
Fruit, Fresh citrus. W. Daniels. 370,073; Aug. 15; Serial No. 416,250; published June 6, 1939.
Fruit, Fresh citrus. Teague-McKevett Association. 370,116–7; Aug. 15; Serial Nos. 417,716–7; published June 6, 1939.
Gelatin dessert and pudding preparation. H. Hain. 370,025; Aug. 15; Serial No. 392,924; published June 6, 1939.
Honey. American Sugar Refining Company. 126,377; renewed Aug. 26, 1939.
Ices, Fruit. M. B. Rasmusson. 370,047; Aug. 15; Serial No. 411,793; published June 6, 1939.
Icing for use as a food. American Sugar Refining Company. 126,237; renewed Aug. 19, 1939.
Mixture for the making of cakes, rolls, doughnuts, etc., Prepared. Pillsbury Flour Mills Company. 370,115; Aug. 15; Serial No. 417,676; published June 6, 1939.
Oranges and lemons. La Habra Citrus Association. 128,246; renewed Dec. 30, 1939.
Paste for use in the manufacture of confectionery. Burgess Supply Co. 370,091; Aug. 15; Serial No. 417,115; published June 6, 1939.
Spices. H. Schoenfeld & Sons, Inc. 370,054; Aug. 15; Serial No. 413,488; published June 6, 1939.
Syrup extracted from cocoanuts. E. Donougher. 370,090; Aug. 15; Serial No. 417,085; published June 6, 1939.
Syrups. M. Ortega. 370,038; Aug. 15; Serial No. 407,739; published June 6, 1939.
Tomato paste, macaroni, canned fish, etc. W. Amerise. 370,048; Aug. 15; Serial No. 412,245; published June 6, 1939.

CLASS 48

Beer. Burger Brewing Company. 370,022; Aug. 15; Serial No. 381,835; published Aug. 24, 1937.
Beer. Central Breweries, Inc. 370,028; Aug. 15; Serial No. 402,510; published June 6, 1939.
Beers and ales. Old Dutch Brewers, Inc. 370,103; Aug. 15; Serial No. 417,385; published June 6, 1939.

CLASS 49

Alcoholic spirits, Distilled. Licoreria Marin Inc. 370,145; Aug. 15; Serial No. 418,843; published June 6, 1939.
Liqueurs, Alcoholic. Distillerie de la Suze (Société Anonyme). 370,057; Aug. 15; Serial No. 414,184; published June 6, 1939.
Whiskey. J. A. Dougherty's Sons, Inc., Distillers. 370,160; Aug. 15.
Whiskies, gin, brandy, etc. Municipal Liquor Stores Association. 370,050; Aug. 15; Serial No. 412,824; published June 13, 1939.

CLASS 50

Bottle closures. H. H. Martin Products Corporation. 370,079; Aug. 15; Serial No. 416,470; published May 30, 1939.
Tags, Identification. Bernard G. Ward and Clarence E. Wernitsch. 370,046; Aug. 15; Serial No. 411,727; published May 30, 1939.

LIST OF LABELS

Absorbine Jr. For an Antiseptic for Relief of Sore Muscles, Superficial Cuts, Bruises, Burns, Sunburn, Bites of Small Insects, Aches and Pains that Can Be Reached by External Applications. W. F. Young, Inc. 53,400; Aug. 15.
Absorbine Jr. For a Preparation for Relief of Sore Muscles, Superficial Cuts, Bruises, Burns, Sunburn, Bites of Small Insects, Aches and Pains that Can Be Reached by External Applications. W. F. Young, Inc. 53,401; Aug. 15.
Bile Preparation. For a Bile Preparation. W. F. Hooper. 53,377; Aug. 15.
"Black Leaf" Dual-Fixed Nicotine Dust. For Dual-Fixed Nicotine Dust. Tobacco By-Products & Chemical Corporation. 53,396; Aug. 15.
Corvet A B D G Vitamin Capsules. For Vitamin Capsules. Stewart & Ross Corporation. 53,390–91; Aug. 15.
De Luxe Mode. For Cartons. Bird & Son, Inc. 53,372; Aug. 15.
Golden Bantam. For Kentucky Straight Bourbon Whisky. K. Taylor Distilling Co. 53,392; Aug. 15.
Grows as Baby Grows. For Children's Garments. Snuggle Rug Co. 53,389; Aug. 15.
Grows with the Child. For Children's Garments. Snuggle Rug Co. 53,388; Aug. 15.
Hollywood. For Artificial Finger Nails. J. F. Cingros. 53,373; Aug. 15.
Kant-Mist Glass Cleaner. For a Glass Cleaner. H. B. Cowan. 53,374; Aug. 15.
Klx. For Breakfast Cereal. General Mills, Inc. 53,375; Aug. 15.
Love Apples. For Tomatoes. H. Hornor. 53,378; Aug. 15.
Mactavish Orange Marmalade Bitter-Sweet. For Orange Marmalade. Mactavish Preserves Co. 53,379; Aug. 15.
Mars, a Toasted Almond Bar. For Candy. Mars Incorporated. 53,381; Aug. 15.
Mecca dor Ties. For Ties. Paris Neckwear Co. Inc. 53,385; Aug. 15.
Milky Way Chocolate. For Candy. Mars Incorporated. 53,383; Aug. 15.
Nachman Resilatex Construction. For Mattresses. Nachman Spring-Filled Corp. 53,384; Aug. 15.
99. For Kentucky Straight Bourbon Whisky. K. Taylor Distilling Co. 53,393; Aug. 15.
Red Book. For California Vegetables. G. Young. 53,399; Aug. 15.
Roberts Unsweetened Evaporated Milk. For Unsweetened Evaporated Milk. Roberts Dairy Co. 53,386; Aug. 15.
Royal Springs. For Kentucky Straight Bourbon Whisky. K. Taylor Distilling Co. 53,394; Aug. 15.
Schlitz Quick-Rip Seal. For Beer. Jos. Schlitz Brewing Company. 53,387; Aug. 15.
School Days. For Popped Popcorn. C. Hefley. 53,376; Aug. 15.
Snickers. For Candy. Mars Incorporated. 53,380; Aug. 15.
Townsend Club. For Stationery. Townsend National Weekly, Inc. 53,397; Aug. 15.
Vanilla Forever Yours Milky Way. For Candy. Mars Incorporated. 53,382; Aug. 15.
Wye-Tone. For a Medicine Used to Help Purify and Tone the Systems of Men, Women and Children and for Use as a Laxative. J. A. Titus. 53,395; Aug. 15.
Young's Blue Label Y. P. M. For Blended Whiskey. Alexander Young Distilling Co. 53,398; Aug. 15.

LIST OF PRINTS

Chromlead, the New Chromium-Metallic Lead Process. For Chromized Metallic Lead Used as a Rust Inhibitor. C. H. Dragert Company, Inc. 17,533; Aug. 15.
Kalifat. For Publications. F. P. Savinien. 17,537; Aug. 15.
Ready-to-Run Newspaper Ads That Will Sell More Sweaters! For Cardigans and Sweaters. Puritan Knitting Mills Corp. 17,535; Aug. 15.
Swingtest, the Fascinating Instructive Practice Game for Good Golf. For a Game. C. J. Rohland. 17,536; Aug. 15.
Tyme Memorials. For Memorials. T. Jones. 17,534; Aug. 15.
Vitamins and Health. For Vitamin Capsules. Stewart & Ross Corporation. 17,538; Aug. 15.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Eastman Kodak Company. (See Morey, George W., assignor.)
Hazeltine Corporation. (See Wheeler, Harold A., assignor.)
Morey, George W., Chevy Chase, Md., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Optical glass. Re. 21,175; Aug. 15.
Wheeler, Harold A., Great Neck, N. Y., assignor to Hazeltine Corporation. Radio-frequency inductance unit. Re. 21,176; Aug. 15.

LIST OF DESIGN PATENTEES

Allen-Morrison Sign Co. (See Dey, John B., assignor.)
Ambrose, John P., Bronx, assignor to Phinney-Walker Company, Inc., New York, N. Y. Pull wind desk clock and base combination. 116,130; Aug. 15.
Anchor-Hocking Glass Corporation. (See Barbiers, Ferdinand S., assignor.)
Armstrong Cork Company. (See Steelman, James S., assignor.)
Arnoff, Philip J. (See Sharlitt, H. V., and Arnoff.)
Axel, Benjamin, Brooklyn, assignor to Axel Brothers, Inc., New York, N. Y. Watch bracelet, or similar article. 116,155; Aug. 15.
Axel, Benjamin, Brooklyn, assignor to Axel Brothers, Inc., New York, N. Y. Watch bracelet, or similar article. 116,156; Aug. 15.
Axel Brothers, Inc. (See Axel, Benjamin, assignor.)
Baker, John, assignor to The J. M. Doddridge & Sons Co., Milton, Ind. Burial casket. 116,131; Aug. 15.
Barbiers, Ferdinand S., assignor to Anchor-Hocking Glass Corporation, Lancaster, Ohio. Glass covered butter dish or article of similar nature. 116,157; Aug. 15.
Bigelow-Sanford Carpet Co. (See Lehner, Charles D., assignor.)
Brody, Benjamin R., New York, N. Y. Lady's handbag or similar article. 116,158; Aug. 15.
Brody, Benjamin R., New York, N. Y. Lady's handbag or similar article. 116,159; Aug. 15.
Dannell, Arthur G., Flushing, N. Y. Icon projector or similar article. 116,132; Aug. 15.
D'Elia, Joseph A., Bridgeport, Conn. Oil burner. 116,160; Aug. 15.
De Lisle, Jean, Torrington, Conn. Virgin shrine altar. 116,133; Aug. 15.
Detroit Trust Company et al., executors. (See Trabold, Frank W.)
Dey, John B., assignor to Allen-Morrison Sign Co., Inc., Lynchburg Va. Frame for a display board or the like. 116,134; Aug. 15.
Doddridge, J. M., & Sons Co., The. (See Baker, John, assignor.)
Dreyfuss, Henry, assignor to The New York Central Railroad Company, New York, N. Y. Locomotive. 116,180; Aug. 15.
Ellenoff, Louis, New York, N. Y. Sweater. 116,181; Aug. 15.
Fainblatt, Leon, New York, N. Y. Hood or similar article. 116,182; Aug. 15.
Fassler, Adolph, Pelham, N. Y., assignor to H. A. Lawson, Signal Mountain, Tenn. Bedspread. 116,183; Aug. 15.
Fordyce, Rufus G., Glencoe, Ill., assignor to Luminous Processes, Inc., New York, N. Y. Escutcheon plate. 116,184; Aug. 15.
Fordyce, Rufus G., Glencoe, Ill., assignor to Luminous Processes, Inc., New York, N. Y. Escutcheon plate. 116,185; Aug. 15.
Fordyce, Rufus G., Glencoe, Ill., assignor to Luminous Processes, Inc., New York, N. Y. Escutcheon plate. 116,186; Aug. 15.
Frost, George W., Evansville, Ind. Scaffold unit. 116,187; Aug. 15.
Frost, George W., Evansville, Ind. Scaffold unit. 116,188; Aug. 15.
Gabriel, William A., Oakland, Calif., assignor to Sanitary Vending Company. Dispensing device. 116,135; Aug. 15.
Glick, Leo, New York, N. Y. Ensemble dress. 116,210; Aug. 15.
Goodman, Benjamin F., New York, N. Y. Scarf or similar article. 116,189; Aug. 15.
Gorham Manufacturing Company. (See Price, James R., assignor.)
Gorham Manufacturing Company. (See Woodward, F. R., and Staf, assignors.)
Grand Rapids Store Equipment Co. (See Vaughn, Henry P., assignor.)
Gundelfinger, William E., assignor to Knapp-Monarch Company, St. Louis, Mo. Sadiron or the like. 116,161; Aug. 15.
Hall, Robert W., Los Angeles, Calif. Massage brush. 116,162; Aug. 15.
Hebner, William F., Paonia, Colo. Tax token dispenser. 116,136; Aug. 15.
Holt, George W., Jr., San Francisco, Calif., assignor to Marathon Paper Mills Company, Rothschild, Wis. Paper tray. 116,163; Aug. 15.
Howell Company, The. (See Waltman, Chauncey E., assignor.)
Hydraulic Development Corp. (See Muller, Johan A., assignor.)
Janus, Joseph J., Chicago, Ill. Picture frame. 116,164; Aug. 15.
Kalter, Harold E., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Cycle saddle. 116,137; Aug. 15.
Kalter, Harold E., assignor to The Troxel Manufacturing Company, Elyria, Ohio. Cycle saddle seat. 116,138; Aug. 15.
Katz, Abraham, New York, N. Y. Textile fabric. 116,204; Aug. 15.
Kaufmann, Harry, West Orange, assignor to K. Kaufmann & Co., Inc., Newark, N. J. Overnight case. 116,165; Aug. 15.
Kaufmann, K., & Co. Inc. (See Kaufmann, Harry, assignor.)
Keen, Thomas A., San Mateo, Calif., assignor to H. M. Smith, River Forest, Ill. Starting box. 116,139; Aug. 15.
Knapp-Monarch Company. (See Gundelfinger, William E., assignor.)
Kohorn, Oscar, & Co. (See von Kohorn zu Kornegg, Oscar F., assignor.)
Koonz, Frederick W., Bernardston, assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass. Spoon or similar article. 116,140; Aug. 15.
Kruger, Maurice J., Brooklyn, assignor to Kruger, Ressner & Arner, Inc., New York, N. Y. Shoulder bag or similar article. 116,166; Aug. 15.
Kruger, Ressner & Arner, Inc. (See Kruger, Maurice J., assignor.)
Lawson, Harriette A. (See Fassler, Adolph, assignor.)
Lawson, Harriette A. (See Steinweg, Richard, assignor.)
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 116,167; Aug. 15.
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 116,168; Aug. 15.
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 116,190; Aug. 15.
Lawson, Harriette A., Signal Mountain, Tenn. Bedspread. 116,191; Aug. 15.
Lehner, Charles D., Long Island City, N. Y., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn. Floor covering or the like. 116,205; Aug. 15.
Luminous Processes, Inc. (See Fordyce, Rufus G., assignor.)
Marathon Paper Mills Company. (See Holt, George W., Jr., assignor.)
Marciano, Gerardo F., Providence, R. I., assignor to Universal Optical Corporation. Sun glasses. 116,141; Aug. 15.
McKellar, John D., San Luis Obispo, Calif. Airplane. 116,206; Aug. 15.
Meyers, Harry, New York, N. Y. Accordion grille. 116,142; Aug. 15.
Muller, Johan A., Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del. Press. 116,169; Aug. 15.
National Silver Company. (See Schulgasser, Milton, assignor.)
New York Central Railroad Company, The. (See Dreyfuss, Henry, assignor.)
Ouellette, Paul J., Pasadena, Calif. Citrus fruit peeler. 116,192; Aug. 15.
Patzer, William, and W. A. Tratsch, Chicago, Ill. Coin and slug detector. 116,143; Aug. 15.
Phinney-Walker Company. (See Ambrose, John P., assignor.)

Planeta, Anthony W., Linden, N. J. Basket. 116,193; Aug. 15.
Planeta, Anthony W., Linden, N. J. Basket. 116,194; Aug. 15.
Price, James R., Cranston, assignor to Gorham Manufacturing Company, Providence, R. I. Spoon or other article of flatware. 116,144; Aug. 15.
Rittenhouse, A. E., Co., The. (See Rittenhouse, Lloyd, assignor.)
Rittenhouse, Lloyd, assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Housing for signal device. 116,170; Aug. 15.
Rizsak, Lillian G., New York, N. Y. Dress. 116,207; Aug. 15.
Rodgers, Annetta K., assignor of one-third to F. W. Williams, Philadelphia, Pa. Finger ring. 116,171; Aug. 15.
Rogers, Lunt & Bowlen Company. (See Koonz, Frederick W., assignor.)
Sanitary Vending Company. (See Gabriel, William A., assignor.)
Savastano, Alfred, New York, N. Y. Picture frame or similar article. 116,172; Aug. 15.
Scholes, Howard S., West Barrington, R. I. Display box. 116,145; Aug. 15.
Schulgasser, Milton, assignor, by mesne assignments, to National Silver Company, New York, N. Y. Spoon or similar article. 116,146; Aug. 15.
Schulgasser, Milton, assignor, by mesne assignments, to National Silver Company, New York, N. Y. Spoon or similar article. 116,147; Aug. 15.
Schulgasser, Milton, assignor, by mesne assignments, to National Silver Company, New York, N. Y. Spoon or similar article. 116,148; Aug. 15.
Sharlitt, Herbert V., and P. J. Arnoff, Cleveland, Ohio. Transparent food receptacle. 116,149; Aug. 15.
Sharlitt, Herbert V., and P. J. Arnoff, Cleveland, Ohio. Transparent food receptacle. 116,150; Aug. 15.
Shull, Harry, New York, N. Y. Dress. 116,208; Aug. 15.
Simmon, Rudolph, Long Island City, N. Y. Photographic enlarger. 116,151; Aug. 15.
Smith, Hannah M. (See Keen, Thomas A., assignor.)
Staf, Axel H. (See Woodward, F. R., and Staf.)
Steelman, James S., Millville, N. J., assignor to Armstrong Cork Company, Lancaster, Pa. Bottle or similar article. 116,173; Aug. 15.
Steinweg, Richard, New York, N. Y., assignor to H. A. Lawson, Signal Mountain, Tenn. Bedspread. 116,195; Aug. 15.
Steinweg, Richard, New York, N. Y., assignor to H. A. Lawson, Signal Mountain, Tenn. Bedspread. 116,196; Aug. 15.
Steinweg, Richard, New York, N. Y., assignor to H. A. Lawson, Signal Mountain, Tenn. Bedspread. 116,197; Aug. 15.
Trabold, Frank W., deceased, Detroit, Mich.; Detroit Trust Company and I. J. F. Trabold, executors. Frankfurter. 116,174; Aug. 15.
Trabold, Irma J. F., et al., executors. (See Trabold, Frank W.)
Tratsch, Walter A. (See Patzer, W., and Tratsch.)
Troxel Manufacturing Company, The. (See Kalter, Harold E., assignor.)
Universal Optical Corporation. (See Marciano, Gerardo F., assignor.)
Vaughn, Henry P., assignor to Grand Rapids Store Equipment Co., Grand Rapids, Mich. Display case. 116,152; Aug. 15.
Vaughn, Henry P., assignor to Grand Rapids Store Equipment Co., Grand Rapids, Mich. Display case. 116,153; Aug. 15.
Von Kohorn zu Kornegg, Oscar F., assignor to Oscar Kohorn & Co., Ltd., New York, N. Y. Filter body. 116,209; Aug. 15.
Walther, John L., New York, N. Y. Woven textile fabric. 116,198; Aug. 15.
Waltman, Chauncey E., Chicago, assignor to The Howell Company, St. Charles, Ill. Smoking stand. 116,175; Aug. 15.
Waltman, Chauncey E., Chicago, assignor to The Howell Company, St. Charles, Ill. Smoking stand. 116,176; Aug. 15.
Watling, William, Chicago, Ill. Weighing scale. 116,177; Aug. 15.
Williams, Frederick W. (See Rodgers, Annetta K., assignor.)
Woodward, F. Russell, Attleboro, Mass., and A. H. Staf, assignors to Gorham Manufacturing Company, Providence, R. I. Spoon or other article of flatware. 116,154; Aug. 15.
Yarick, Floyd D., Detroit, Mich. Stoker. 116,178; Aug. 15.
Yates, William K., Jr., Wilmette, Ill. Pocket tool. 116,179; Aug. 15.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 116,199; Aug. 15.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 116,200; Aug. 15.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 116,201; Aug. 15.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 116,202; Aug. 15.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 116,203; Aug. 15.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 15TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abresch, William Y., Gastonia, N. C. Automatic truck brake. 2,169,781; Aug. 15.
Acme Shear Company, The. (See Conway, John J., assignor.)
Acme Visible Records, Inc. (See Gast, Edward C., Jr., assignor.)
Adam, Marcel. (See Terrier, F., and Adam.)
Adams, Thomas C., Minneapolis, Minn., assignor of one-half to M. J. Saperston, Chicago, Ill. Electrically operated clock. 2,169,208; Aug. 15.
Adas, Thomas L., Chicago, Ill., assignor to Purdue Research Foundation, Lafayette, Ind. Highway marker. 2,169,674; Aug. 15.
Adlake Company, The. (See Hendrickson, Hugh H., assignor.)
Adrian, Matthew B., assignor to X-Ray Shoe Fitters, Inc., Milwaukee, Wis. X-ray inspection equipment and method. 2,169,483; Aug. 15.
Agfa Ansco Corporation. (See Brunken, Johannes, assignor.)
Agfa Ansco Corporation. (See Heymer, G., and Schultze, assignors.)
Agfa Ansco Corporation. (See Ossenbrunner, A., Hagdorn, and Wilmanns, assignors.)
Ahrens, Henry T., Charlotte, Tex. Cotton cleaning machine. 2,169,782; Aug. 15.
Aktiebolaget Cevia. (See Welertz, P. A. R., and Olsson, assignors.)
Aktiebolaget Gerh. Arehns Mekaniska Verkstad. (See Danielsson, Paul, assignor.)
Albrecht, Otto, assignor to Society of Chemical Industry in Basle, Basel, Switzerland. Carboxylic acid esters of aromatic sulphocarboxylic acids with hydroxyalkylamides and making same. 2,169,515; Aug. 15.
Allegheny Steel Company. (See Taylor, John R., assignor.)
Allen, Willard W., Augusta, Ill. Rodent trap. 2,169,783; Aug. 15.
Allis-Chalmers Manufacturing Company. (See Sillers, T. G. A., and Michael, assignors.)
Allison, William D., assignor to Hudson Motor Car Company, Detroit, Mich. Stabilizer mechanism. 2,169,969; Aug. 15.
Allsup, Allen R., assignor to Allsup Manufacturing Company, St. Louis, Mo. Starching machine. 2,169,457; Aug. 15.
Allsup Manufacturing Company. (See Allsup, Allen R., assignor.)
Altorfer, Henry W., Peoria, Ill. Ironing machine cabinet. 2,169,753; Aug. 15.
Alt, Wolfgang, and H. Krzikalla, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y. Disazo dyestuffs. 2,169,970; Aug. 15.
Amco, Incorporated. (See Morton, William A., assignor.)
Amco, Incorporated. (See Morton, W. A., and Spencer, assignors.)
American Brake Company, The. (See Williamson, Frederick G., assignor.)
American Can Company. (See Widell, Magnus E., assignor.)
American Cyanamid Company. (See Bradley, Theodore F., assignor.)
American Enka Corporation. (See Kock, T., and van der Kroon, assignors.)
American Machine & Foundry Company. (See Dearsley, G., and Shackleton, assignors.)
American Machine & Foundry Company. (See Stein, John A., assignor.)
American Rolling Mill Company, The. (See Sendzimir, Tadeusz, assignor.)
American Steel Foundries. (See Cottrell, Robert B., assignor.)
American Tap-Bush Company. (See Rice, Frank E., assignor.)
American Textile Engineering Inc. (See Lambach, Fritz, assignor.)
Andersen, Anders C. N., Odense, Denmark. Apparatus for producing artificial respiration. 2,169,784; Aug. 15.
Anderson, Alfred, et al. (See Anderson, Chester A., assignor.)
Anderson, Arvid E., Drexel Hill, and H. Bany, Lansdowne, Pa., assignors to General Electric Company. System of electric distribution. 2,169,863; Aug. 15.
Anderson, Chester A., assignor of one-third to A. Anderson, and one-third to R. N. Ornberg, Litchfield, Minn. Pressure oil can. 2,169,209; Aug. 15.
Anderson, Forest L., Bristol, Tenn. Swimming glove. 2,169,939; Aug. 15.
Anderson, Ralph L. (See Oehler, A. W., Anderson, and Paradise.)
Andrews, Norman F., assignor to Deere & Company, Moline, Ill. Tractor mounted implement. 2,169,909; Aug. 15.
Arends, John H., Maplewood, N. J. Attachment for rocking chairs. 2,169,550; Aug. 15.
Armitage, Joseph B., Wauwatosa, assignor to Kearney & Trecker Corporation, West Allis, Wis. Machine tool transmission and control mechanism. 2,169,484; Aug. 15.
Armstrong, Edwin H., New York, N. Y. Radio transmitting system. 2,169,212; Aug. 15.
Armstrong-Taylor, Duncan, Paris, France. Transmission device. 2,169,822; Aug. 15.
Arndt, Max, Berlin, Germany. Sound recording system. 2,169,910; Aug. 15.
Askania-Werke A. G. (See von Manteuffel, Gert Z., assignor.)
Associated Spring Corporation, The. (See Becker, Sylvan J., assignor.)
Associated Telephone and Telegraph Company. (See Taylor, R., and Baker, assignors.)
Atlantic Refining Company, The. (See Brownscombe, Eugene R., assignor.)
Aument, H. Chester, Long Island City, N. Y. Receptacle and forming the same. 2,169,864; Aug. 15.
Autogiro Company of America. (See Pitcairn, Harold F., assignor.)
Automatic Drive and Transmission Company. (See Haupt, William E., assignor.)
Automatic Shifters, Inc. (See Lasley, Edward D., assignor.)
Auto Research Corporation. (See Bijur, Joseph, assignor.)
Auto Union Aktiengesellschaft. (See Berndt, H. R., and Schulz, assignors.)
Ayala, Juan C., Monterrey, Mexico. Head for machinists' scales. 2,169,785; Aug. 15.
Baash-Ross Tool Company. (See Brown, Ora A., assignor.)
Baash-Ross Tool Company. (See Long, Spencer W., assignor.)
Babcock & Wilcox Company, The. (See Cassidy, Perry R., assignor.)
Bäckdahl, Julia. (See Bäckdahl, Karl G. A., assignor.)
Bäckdahl, Karl G. A., assignor to J. Bäckdahl, Stockholm, Sweden. Ticket printing or marking and issuing apparatus. 2,169,213; Aug. 15.
Bahnson Company, The. (See Simpson, Jerry H., assignor.)
Baker, Clarence L., Elizabeth, E. C. Mueller, Jr., Cranford, and F. J. Redmond, Arlington, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electromagnet for switching devices. 2,169,551; Aug. 15.
Baker, George T. (See Taylor, R., and Baker.)
Baker, Ralph H. (See Gill, H. A., and Baker.)
Baker, William H. (See McCann, J. J., and Stuer, assignors.)
Balcar, Frederick R., Stamford, Conn., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., New York, N. Y. Recovery of olefin oxides from gaseous mixtures. 2,169,210; Aug. 15.
Balfe, George T., assignor to Detroit Gasket & Mfg. Company, Detroit, Mich. Gasket. 2,169,516; Aug. 15.
Banta, John S., New York, N. Y. Structural frame. 2,169,865; Aug. 15.
Bany, Herman. (See Anderson, A. E., and Bany.)
Barkholt, Hans, Berlin-Halensee, assignor to Zohn & Co., G. m. b. H., Berlin, Germany. Elemental sulphur from hydrocarbon gases containing hydrogen sulphide. 2,169,379; Aug. 15.
Barnes & Jones, Incorporated. (See Jones, W. T., and Hartford, assignors.)
Barrett, James H., Okmulgee, Okla. Mechanical manikin. 2,169,380; Aug. 15.
Bartlett, Norman, Weehawken, N. J. Amusement apparatus. 2,169,403; Aug. 15.
Bassick Company, The. (See Claud-Mantle, Arthur, assignor.)
Baum, Henry, assignor of one-half to E. B. Richard, Bowling Green, Ohio. Reading glass support for map holders. 2,169,786; Aug. 15.
Bayer, Matthew F., Kenosha, Wis., assignor to Simmons Company, New York, N. Y. Studio couch. 2,169,211; Aug. 15.
Bayerische Stickstoff-Werke Aktien Gesellschaft. (See Wendlandt, Rudolf, assignor.)
Bays, George S., assignor to Stanolind Oil and Gas Company, Tulsa, Okla. Back-pressure control in pressure drilling. 2,169,675; Aug. 15.

Beal, Arthur G., and B. Holmberg, assignors to The Foxboro Company, Foxboro, Mass. Printing and perforating apparatus. 2,169,891; Aug. 15.
Beatty, Mildred M., Albuquerque, N. Mex. Mimi-o-file cabinet. 2,169,911; Aug. 15.
Becker, Sylvan J., Lake Bluff, Ill., assignor to the Associated Spring Corporation, Bristol, Conn. Spring device. 2,169,787; Aug. 15.
Beckers, William G., Bolton, N. Y. Detergent composition. 2,169,829; Aug. 15.
Bedford, Burnice D., Schenectady, N. Y., assignor to General Electric Company. Electric control and indicating means. 2,169,866; Aug. 15.
Bednarek, Frank, San Francisco, Calif. Machine tool feed controlling means. 2,169,351; Aug. 15.
Beeman, Donald L., Scotia, N. Y., assignor to General Electric Company. Control of electric switches. 2,169,867; Aug. 15.
Behnisch, Robert, J. Klarer, and F. Mietzsch, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Sulphonic acid amide compounds. 2,169,971; Aug. 15.
Belcher, George E., Company. (See Estey, Frederick W., assignor.)
Bell, Milo C. (See Holmes, H. B., Blood, and Bell.)
Bell Telephone Laboratories, Incorporated. (See Baker, C. L., Mueller, and Redmond, assignors.)
Bell Telephone Laboratories, Incorporated. (See Bruce, Edmond, assignor.)
Bell Telephone Laboratories, Incorporated. (See Graham, Frank H., assignor.)
Bell Telephone Laboratories, Incorporated. (See Kannenberg, Walter F., assignor.)
Bell Telephone Laboratories, Incorporated. (See Keckler, C. W., and Raynsford, assignors.)
Bell Telephone Laboratories, Incorporated. (See Legg, Victor E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Peek, Robert L., Jr., assignor.)
Bell Telephone Laboratories, Incorporated. (See Romnes, Haakon I., assignor.)
Bell Telephone Laboratories, Incorporated. (See Ronci, Victor L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Samuel, Arthur L., assignor.)
Bell Telephone Laboratories, Incorporated. (See Swart, Leland K., assignor.)
Bell Telephone Laboratories, Incorporated. (See Sykes, Roger A., assignor.)
Bellegante, Jim, Glenns Ferry, Idaho. Reel attachment for hay mowers. 2,169,628; Aug. 15.
Bellin, Daniel J., New York, N. Y. Garment device. 2,169,552; Aug. 15.
Benander, George B., Yalesville, assignor to Monowatt Electric Corporation, Bridgeport, Conn. Electric socket. 2,169,868; Aug. 15.
Bendix Aviation Corporation. (See Sekella, Youston, assignor.)
Bendix Aviation Corporation. (See Spengler, Walter J., assignor.)
Bent, Franklin A., A. G. Loomis, and H. C. Lawton, Berkeley, assignors to Shell Development Company, San Francisco, Calif. Sealing off water and gas layers. 2,169,458; Aug. 15.
Bergholm, Harry K., Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,169,214; Aug. 15.
Berkshire Knitting Mills. (See Göttler, Martin, assignor.)
Berndt, Hans R., Chemnitz, and R. E. C. Schulz, Berlin-Spandau, assignors to Auto Union Aktiengesellschaft, Chemnitz, Germany. Vehicle body. 2,169,788; Aug. 15.
Bertrand, Raymond, Brussels, assignor to Compagnie Internationale des Pieux Armés Frankignoul, Société Anonyme, Liege, Belgium. Constructing foundation piles. 2,169,789; Aug. 15.
Besal, Joseph A. (See Youngfelt, T. T., Besal, and Hurd.)
Best, Frank C., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,169,335; Aug. 15.
Best, Frank C., assignor to Packard Motor Car Company, Detroit, Mich. Motor vehicle. 2,169,336; Aug. 15.
Bevington, John E., East Cleveland, assignor to S. J. Evans, Cleveland, Ohio. Container. 2,169,892; Aug. 15.
Beyster, Henry E., Detroit, Mich., assignor to A. C. Lawrence Leather Company, Peabody, Mass. Fleshing machine. 2,169,754; Aug. 15.
Bijur, Joseph, New York, N. Y., assignor to Auto Research Corporation. Lubrication. 2,169,215; Aug. 15.
Bingham, Arthur. (See Ruan, F. F., and Bingham.)
Birdsboro Steel Foundry & Machine Company. (See Hall, John H., assignor.)
Biro, Vincent G., Marblehead, Ohio. Meat sawing machine. 2,169,517; Aug. 15.
Blackburn, George, and Sons Limited. (See Jarvis, Frank J., assignor.)
Blake, Kenneth R. (See Hill, R. H., and Blake.)
Block, Harold C. (See Layne, L. A., and Block.)
Blood, Henry F. (See Holmes, H. B., Blood, and Bell.)
Bloxsom, Allan P., Houston, Tex. Accelerator timer control. 2,169,216; Aug. 15.
Blunt, Royden A., Baltimore, Md. Vending machine bottle. 2,169,869; Aug. 15.
Bolen, Carl T., Long Beach, Calif. Thermal cover. 2,169,511; Aug. 15.
Boll, Karl, Berlin, and A. Edelhoff, assignors to Sprengund Tauchgesellschaft m. b. H., Berlin-Schoneberg, Germany. Hydraulic earth-boring apparatus. 2,169,718; Aug. 15.
Bonge, George A., Hearne, Tex. Pipe cleaner. 2,169,940; Aug. 15.
Booth, Charles F., and H. J. Krase, Anniston, Ala., assignors, by mesne assignments, to Monsanto Chemical Company. Making copper phosphate. 2,169,576; Aug. 15.
Borch, Niels S., Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y. Rotary kiln. 2,169,512; Aug. 15.
Bowser, S. F., & Company. (See Carroll, William M., assignor.)
Boyce Thompson Institute for Plant Research, Inc. (See Zimmerman, P. W., and Hitchcock, assignors.)
Brace, Kemper P., South Bend, Ind., assignor to International Engineering Corporation, Chicago, Ill. Refrigerator system. 2,169,459; Aug. 8.
Bradley, Theodore F., Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y. Liquid coating composition. 2,169,577; Aug. 8.
Brady, Henry J., McCone City, and P. H. McConnell, Park Grove, Mont. Trench digging machine. 2,169,518; Aug. 15.
Brandt, David G., Westfield, assignor to Power Patents Company, Hillside, N. J. Recovery of gasoline hydrocarbons. 2,169,959; Aug. 15.
Brauer Machine & Supply Company. (See Notley, Joseph H., assignor.)
Breese, James L., assignor to Oil Devices, Santa Fe, N. Mex. Burner for liquid fuel. 2,169,755; Aug. 15.
Breeze Corporations, Inc. (See Gardner, Frank G., assignor.)
Briand, Henry, Paris, France. Device for regulating the action of brakes. 2,169,519; Aug. 15.
Broughton, Lyle E., Jackson, Mich. Socket head screw and making the same. 2,169,460; Aug. 15.
Brouse, William H. D., assignor to International Metal Industries Limited, Toronto, Ontario, Canada. Switch and computer control device for fluid pumps. 2,169,870; Aug. 15.
Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Braking apparatus. 2,169,629; Aug. 15.
Brown, Ora A., South Gate, Calif., assignor to Baash-Ross Tool Company, Los Angeles, Calif. Well tool. 2,169,217; Aug. 15.
Brownscombe, Eugene R., Alden, assignor to The Atlantic Refining Company, Philadelphia, Pa. Recovery of solvent from hydrocarbon oils. 2,169,218; Aug. 15.
Brownstein, Arthur, Bridgeport, assignor to Whitney Blake Company, New Haven, Conn. Attachment plug. 2,169,219; Aug. 15.
Bruce, Edmond, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Directive radio system. 2,169,553; Aug. 15.
Brunken, Johannes, Dessau, Anhalt, Germany, assignor, by mesne assignments to Agfa Ansco Corporation, Binghamton, N. Y. Hardening albuminous substances. 2,169,513; Aug. 15.
Bruson, Herman A., and R. F. McCleary, assignors to The Resinous Products & Chemical Company, Philadelphia, Pa. Higher alkoxyacetonitriles. 2,169,578; Aug. 15.
Buchanan, Leslie B. M., Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigerating apparatus. 2,169,554; Aug. 15.
Bucher, Samuel, Milwaukee, Wis. Ice cream mold. 2,169,485; Aug. 15.
Buck, Howard T., Cedar Knolls, N. J., and W. A. Buck, Brooklyn, assignors to T. S. Buck Manufacturing Co., New York, N. Y. Signature and other printing dies for printing machines. 2,169,676; Aug. 15.
Buck, T. S. Manufacturing Co. (See Buck, Howard T. and W. A., assignors.)
Buck, Wallace A. (See Buck, Howard T. and W. A.)
Buell, Edward J., Niagara Falls, N. Y., and F. D. Martin, Niagara Falls, Ontario, Canada, assignors to Lindsay Wire Weaving Company, Cleveland, Ohio. Loom stopping device. 2,169,756; Aug. 15.
Burke, James P., Knoxville, Tenn. Airplane undercarriage. 2,169,443; Aug. 15.
Burmeister, Hermann, Berlin-Spandau, Germany, assignor to General Electric Company. Electric circuit interrupter. 2,169,871; Aug. 15.
Burns, Alfred P. (See Keane, J. A., Kittredge, and Burns.)
Burrell, Charles D., assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Apparatus for packing glass sheets. 2,169,677; Aug. 15.
Buschbeck, Werner, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Short wave communication circuit. 2,169,352; Aug. 15.
Bush, Alden J., Columbus, Ohio. Selecting artificial teeth. 2,169,719; Aug. 15.
Buttner, Theodore W., assignor to Robinson-Houchin Optical Company, Columbus, Ohio. Producing lenses. 2,169,404; Aug. 15.
Buzzard, Gale H., and H. A. Roselund, assignors to The De Vilbiss Company, Toledo, Ohio. Spray apparatus. 2,169,514; Aug. 15.

Calco Chemical Company, The. (See Millson, Henry E., assignor.)
Caldwell, John R., Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y. Textile yarn. 2,169,757; Aug. 15.
Caldwell, Walter T., assignor to The George E. Failing Supply Company, Enid, Okla. Removable power device for earth-drilling machines. 2,169,678; Aug. 15.
Caley, Wendell J., and J. E. Thebaud, Philadelphia, Pa. Hair curler. 2,169,220; Aug. 15.
Calzada, Joseph, et al. (See Irby, David F., assignor.)
Campbell, Walter, Knox, Ind. Live bait container. 2,169,941; Aug. 15.
Cantrell, Troy L., and J. O. Turner, Lansdowne, assignors to Gulf Oil Corporation, Pittsburgh, Pa. Lubricating oil compositions, inhibitors therefor, and manufacturing the same. 2,169,634; Aug. 15.
Capstaff, John G., assignor to Eastman Kodak Company, Rochester, N. Y. Spray rack. 2,169,758; Aug. 15.
Carbide and Carbon Chemicals Corporation. (See Fife, Harvey R., assignor.)
Card, Frederic M., Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Rumbling and stitching machine. 2,169,579; Aug. 15.
Carlon, Robert. (See Halleran, H. T., and Carlon.)
Carroll, Ellsworth W., assignor to Sussman Wormser & Co., San Francisco, Calif. Fruit-processing apparatus. 2,169,353; Aug. 15.
Carroll, William M., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind. Liquid dispensing apparatus. 2,169,635; Aug. 15.
Carrom Company, The. (See Stearns, Freeman R., assignor.)
Carruthers, Eben H., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y. Exhaust heater. 2,169,555; Aug. 15.
Carsley, Harold G., Waukegan, Ill., assignor to Cyclone Fence Company. Container. 2,169,520; Aug. 15.
Case, Nelson P., Great Neck, N. Y., assignor to Hazeltine Corporation. Automatic selectivity control. 2,169,830; Aug. 15.
Cassidy, Perry R., Short Hills, assignor to The Babcock & Wilcox Company, Newark, N. J. Furnace. 2,169,972; Aug. 15.
Casto, Lloyd V., Detroit, Mich., G. von Webern, and E. W. Hamant, Dayton, Ohio, assignors to Oxford Varnish Corporation, Detroit, Mich. Printing member. 2,169,221; Aug. 15.
Cattoi, Louis C., Hurley, Wis., assignor to E. Edelmann & Co., Chicago, Ill. Tube flaring tool. 2,169,790; Aug. 15.
Cawein, Madison, Manhasset, N. Y., assignor to Hazeltine Corporation. Television receiving apparatus. 2,169,831; Aug. 15.
Cederquist, Nils H., Los Angeles, Calif. Glass tile. 2,169,720; Aug. 15.
Cederquist, Nils H., Los Angeles, Calif. Adjustable display shelving. 2,169,721; Aug. 15.
Celanese Corporation of America. (See Seymour, George W., assignor.)
Cellulose Research Corporation, The. (See Olsen, Fredrich, assignor.)
Celluloid Corporation. (See Smith, Harry E., assignor.)
Chace, Thomas B., Winnetka, Ill., assignor to Clad Metals Industries, Inc. Method of and means for producing steel clad with stainless steel. 2,169,354; Aug. 15.
Chadwick, Thomas C. (See Palkin, S., and Chadwick.)
Chapman, Charles W., Peterborough, assignor to F. Perkins Limited, Peterborough, Northamptonshire, England. Internal combustion engine of the compression ignition type. 2,169,381; Aug. 15.
Chapman Valve Manufacturing Company. (See Goldberg, David D., assignor.)
Chase Brass & Copper Co. (See Crampton, D. K., and Thulin, assignors.)
Chase Brass & Copper Co. (See Gazey, William J., assignor.)
Chase, Herbert, and H. W. Waldorf, New York, N. Y.; said Waldorf assignor to said Chase. Display device. 2,169,679; Aug. 15.
Chicago Motor Coach Company. (See Hartrick, Charles E.)
Chicago Telephone Supply Co. (See Schellenger, Newton C., assignor.)
Chilton, Roland, Ridgewood, assignor, by mesne assignments, to Wright Aeronautical Corporation, Paterson, N. J. Dynamic damper having single support and cam stabilizers. 2,169,222; Aug. 15.
Chong, Alfred Y., Pala Maui, Hawaii. Pineapple gathering machine. 2,169,521; Aug. 15.
Christian, Carl C., Victoria, Tex. Drilling apparatus. 2,169,223; Aug. 15.
Cinch Manufacturing Corporation. (See Del Camp, Scipione M., assignor.)
City Novelty Corporation. (See Mantz, Robert, assignor.)
Clad Metals Industries, Inc. (See Chace, Thomas B., assignor.)
Clanton, James E., Portsmouth, Va. Lifesaving device for submarines. 2,169,630; Aug. 15.
Clark, Frank M., Pittsfield, Mass., and W. M. Kutz, Pittsburgh, Pa., assignors to General Electric Company. Liquid halogenated compositions. 2,169,872; Aug. 15.
Clark, George J., Haworth, N. J. Attachment for booms. 2,169,556; Aug. 15.
Clark Thread Company, The. (See Garrott, John H., assignor.)
Clark, William D., Jr., Belleville, N. J. Venetian blind slat. 2,169,873; Aug. 15.
Clarke, Thomas B., and L. E. Short, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Securing heel-breast covering flaps to shoes. 2,169,317; Aug. 15.
Claud-Mantle, Arthur, Trumbull, assignor to The Bassick Company, Bridgeport, Conn. Bracket for automobile robe rails. 2,169,920; Aug. 15.
Cleveland, Dorothy B., Los Angeles, Calif. Garment. 2,169,759; Aug. 15.
Cleveland Punch & Shear Works Company, The. (See Treer, Ross B., assignor.)
Cleveland Rock Drill Company, The. (See Smith, William A., Jr., assignor.)
Cloutier, Arthur N. (See Lawson, R. H., Green, and Cloutier.)
Cohn, Irwin E., New York, N. Y. Target-optical-projection practice gun. 2,169,832; Aug. 15.
Cohn, Willi M., Berkeley, Calif. Color-grading system. 2,169,355; Aug. 15.
Cole, Robert E., Toronto, Ontario, Canada. Snow plow. 2,169,224; Aug. 15.
Combustion Engineering Company. (See Crites, Joe, assignor.)
Compagnie Internationale des Pieux Armés Frankignoul, Société Anonyme. (See Bertrand, Raymond, assignor.)
Compo Shoe Machinery Corporation. (See Smith, John F., assignor.)
Conley, Weld E., Jr., assignor, by mesne assignments, to Thermal Research Corporation, Richmond, Va. Canturning apparatus. 2,169,833; Aug. 15.
Continental Can Company. (See Kronquest, Alfred L., assignor.)
Continental Can Company. (See Pfeffer, Edward C., Jr., assignor.)
Conway, John J., assignor to The Acme Shear Company, Bridgeport, Conn. Scissors and shears. 2,169,580; Aug. 15.
Cooney, John R., Waldoboro, Maine. Photoelectric system. 2,169,405; Aug. 15.
Cooney Refrigeration Company. (See Murphy, Harry S., assignor.)
Copeland, George A., Rochester, N. Y. Container and partition therefor. 2,169,318; Aug. 15.
Copeman Laboratories Company. (See Copeman, Lloyd G., assignor.)
Copeman, Lloyd G., assignor to Copeman Laboratories Company, Flint, Mich. Protective coating and applying and removing. 2,169,225; Aug. 15.
Coppus Engineering Corporation. (See Wechsberg, O., and Werner, assignors.)
Cormack, John A., assignor of one-half to C. W. Schuchardt, Milwaukee, Wis. Marking lump materials. 2,169,226; Aug. 15.
Cornelius, Frank H., and W. N. Green, Wilkinsburg, Pa. Heating system. 2,169,601; Aug. 15.
Cost, William A., and J. W. Hartley, Indianapolis, Ind., assignors, by mesne assignments, to The Jaeger Machine Company, Columbus, Ohio. Retread paver. 2,169,406; Aug. 15.
Cottrell, Robert B., assignor to American Steel Foundries, Chicago, Ill. Brake. 2,169,960; Aug. 15.
Crabtree, George W., Cleveland Heights, Ohio. Spring cover. 2,169,760; Aug. 15.
Crampton, Donald K., Marion, and C. Thulin, assignors to Chase Brass & Copper Co., Waterbury, Conn. Cooling means for continuous casting apparatus. 2,169,893; Aug. 15.
Crandall, Max, and M. Sanders, Kingfisher, Okla. Air conditioner. 2,169,942; Aug. 15.
Criley, William W., Cleveland, Ohio. Forming blanks. 2,169,894; Aug. 15.
Crites, Joe, Evanston, Ill., assignor to Combustion Engineering Company, Inc., New York, N. Y. Whizzer separator. 2,169,680; Aug. 15.
Crompton & Knowles Loom Works. (See Payne, Oscar V., assignor.)
Crompton & Knowles Loom Works. (See Robertson, William W., assignor.)
Crosley Corporation, The. (See Griese, William B., assignor.)
Cross, Roland C., Bath, England. Rotary valve engine. 2,169,631; Aug. 15.
Crosthwait, David N., Jr. (See Dunham, Clayton A. and A. R., Crosthwait, and Miller, assignors.)
Crowley, Robert, North Quincy, Mass. Golf training apparatus. 2,169,407; Aug. 15.
Crown Can Company. (See Mills, John, assignor.)
Crown Cork & Seal Company. (See Pearson, Thomas F., assignor.)
Currie, Kent D., Baltimore, Md., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Brush display rack. 2,169,722; Aug. 15.
Curry, Arnold L., assignor of one-third to H. Wright, Lundale, W. Va. Coupling. 2,169,636; Aug. 15.
Curtiss, Charles E., deceased, Clinton, Wis., Rock County Savings and Trust Company, executor. Hand hoe. 2,169,557; Aug. 15.

Cyclone Fence Company. (See Carsley, Harold G., assignor.)
Dadian, Megnerditch, Paris, France. Tooth brush. 2,169,581; Aug. 15.
Dahlberg, Åke, Fagersta, Sweden, assignor to National Standard Company, Niles, Mich. Manufacture of wire. 2,169,444; Aug. 15.
Dahlberg, Carl F., New Orleans, and J. J. Munson, Houma, La. Cane cleaning device. 2,169,522; Aug. 15.
Daimler-Benz Aktiengesellschaft. (See Wagner, Max, assignor.)
Danielsson, Paul, Pitea, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden. Method of and machine for eviscerating fish. 2,169,791; Aug. 15.
Darvie, Bernard, I., and S., New York, N. Y. Interchangeable attachment. 2,169,461; Aug. 15.
Darvie, Irving. (See Darvie, Bernard, I., and S.)
Darvie, Samuel. (See Darvie, Bernard, I., and S.)
Davies, Lynn E., Park Ridge, assignor to White Cap Company, Chicago, Ill. Apparatus for feeding and applying closure caps. 2,169,973; Aug. 15.
Davis, Harold S., and A. W. Francis, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Manufacture of esters. 2,169,227; Aug. 15.
Davis, Herschel S., Little Rock, Ark. Footwear. 2,169,337; Aug. 15.
Davis, Zack T., Beebe, assignor of one-fourth to J. A. Herndon, Mount Vernon, Ark. Steering walking cultivator. 2,169,912; Aug. 15.
Dean, Roy H., assignor to General Motors Corporation, Detroit, Mich. Glass run channel assembly. 2,169,792; Aug. 15.
Dearborn, Frederick E., Washington, D. C., dedicated to the free use of the Public in the territory of the United States. Treating glycerides. 2,169,793; Aug. 15.
Dearsley, George, and J. Shackleton, London, England, assignors to American Machine & Foundry Company, New York, N. Y. Tobacco rod forming method and means. 2,169,582; Aug. 15.
Debor, Robert, Obermenzing by Munich, Germany, assignor to Dominion Oxygen Company, Limited. Apparatus for making pressure vessels. 2,169,228; Aug. 15.
Deere & Company. (See Andrews, Norman F., assignor.)
Deere & Company. (See Oehler, A. W., Anderson, and Paradise, assignors.)
Deere, John, Tractor Company. (See McCormick, Elmer, assignor.)
De Grace, Carl T., Buffalo, N. Y. Hydraulic brake system. 2,169,462; Aug. 15.
De Laval Separator Company, The. (See Lindgren, Hans O., assignor.)
De Laval Separator Company, The. (See Svensson, Karl J., assignor.)
Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Shielded plug and socket member. 2,169,961; Aug. 15.
Del Camp, Scipione M., Maywood, assignor to Cinch Manufacturing Corporation, Chicago, Ill. Electrical connection. 2,169,962; Aug. 15.
De Leeuw, Adolph L., Plainfield, N. J., assignor to The Warner & Swasey Company, Cleveland, Ohio. Change speed mechanism for machine tools. 2,169,761; Aug. 15.
Del Valle, Guillermo A., Oaklyn, N. J., assignor to Radio Corporation of America. Motion picture camera. 2,169,229; Aug. 15.
De Martile, Abramo, Crockett, Calif. Recording speedometer. 2,169,230; Aug. 15.
De Nault, Joseph M., New York, N. Y. Automobile jack. 2,169,913; Aug. 15.
Dentists' Supply Company of New York, The. (See Lease, Glen M., assignor.)
De Peugh, Theodore R. (See Sweet, J. E., De Peugh, and Parish.)
Desormeaux, Frank C., Forest Park, Ill. Adjustable electrode mount. 2,169,723; Aug. 15.
Det norske Aktieselskab for Electrokemisk. (See Légeron, Jean L., assignor.)
Detroit Gasket & Mfg. Company. (See Balfe, George T., assignor.)
De Vellier, William, Newark, N. J. Drive spike. 2,169,408; Aug. 15.
De Vilbiss Company, The. (See Buzzard, G. H., and Roselund, assignors.)
Devine, J. P., Manufacturing Co. (See Murphy, Frank R., assignor.)
Dey, Le Roy H., Chicago, Ill. Changeable sign. 2,169,409; Aug. 15.
Dictograph Products Company. (See Sears, Sterling G., assignor.)
Di Domenico, Anthony, Forest Hills, and D. Di Domenico, Brooklyn, N. Y. Box. 2,169,382; Aug. 15.
Di Domenico, Dominick. (See Di Domenico, Anthony and D.)
Dittmar, Harry R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Stiffening for box toes. 2,169,558; Aug. 15.
Ditto, Marvin W., assignor to Gas Fuel Corporation, New York, N. Y. Emulsifying mill. 2,169,338; Aug. 15.
Ditto, Marvin W., assignor to Gas Fuel Corporation, New York, N. Y. Mill for dispersion and mixing. 2,169,339; Aug. 15.
Doggett, William, New York, N. Y. Brake mechanism for mechanically movable shelves. 2,169,602; Aug. 15.
Dominion Oxygen Company. (See Debor, Robert, assignor.)
Donovan, Hugh H., Montgomery, Ala. Gasoline filler hose nozzle. 2,169,794; Aug. 15.
Donovan, James G. (See Jennings, Howard C., assignor.)
Dorton, John M., Bonner Springs, Kans. Convertible furniture. 2,169,486; Aug. 15.
Dow Chemical Company, The. (See Heath, S. B., and Keller, assignors.)
Dow, Sumner W., Boston, Mass. Spiral binder. 2,169,943; Aug. 15.
Drake, John L. (See Fowler, I. G., and Drake.)
Drane, Phillips B., Tulsa, Okla. Breather valve and hatch for tanks. 2,169,410; Aug. 15.
Drane, Phillips B., Tulsa, Okla. Vapor saving and relief system. 2,169,411; Aug. 15.
Drew, John E., assignor to Durham Duplex Razor Company, Jersey City, N. J. Razor blade and holder therefor. 2,169,383; Aug. 15.
Drummond, Robert S., Detroit, Mich. Making rotary gear cutters. 2,169,632; Aug. 15.
Dudley, Edward F., Oak Park, assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill. Ink fountain. 2,169,681; Aug. 15.
Duncan, Theodore R., Los Angeles, Calif. Mechanical toy. 2,169,682; Aug. 15.
Dunham, Aubra R. (See Dunham, C. A. and A. R., Crosthwait, and Miller.)
Dunham, Clayton A. and A. R., Glencoe, D. N. Crosthwait, Jr., Chicago, Ill., and P. D. Miller, Michigan City, Ind., assignors to Experimental Laboratories Incorporated, Chicago, Ill. Generating mixed fluid heating medium. 2,169,683; Aug. 15.
Dunlop Rubber Company Limited. (See Murphy, E. A., Trobridge, and Ward, assignors.)
Dunning Lueckel Engineering Company. (See Lueckel, William J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Dittmar, Harry R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Izard, Emmette F., assignor.)
Du Pont, E. I., de Nemours & Company. (See Meigs, Frederick M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Osterloh, R. H., Pyle, Voytilla, and Ficke, assignors.)
Durham Duplex Razor Company. (See Drew, John E., assignor.)
Dyer, Zeb A., Los Angeles, assignor of one-fourth to C. Lamb and one-fourth to D. R. Radford, South Pasadena, Calif. Lower cementing plug. 2,169,356; Aug. 15.
Easthampton Rubber Thread Co. (See Shaw, Kenneth R., assignor.)
Eastman Kodak Company. (See Caldwell, John R., assignor.)
Eastman Kodak Company. (See Capstaff, John G., assignor.)
Eastman Kodak Company. (See McNally, James G., assignor.)
Edelhoff, Arthur. (See Böll, K., and Edelhoff.)
Edelhoff, Arthur, assignor to Spreng-und Tauchgesellschaft m. b. H., Berlin-Schoneberg, Germany. Blasting moory soil. 2,169,724; Aug. 15.
Edelmann, E., & Co. (See Cattol, Louis C., assignor.)
Edwards, Carl, et al. (See Jensen, Roy E., assignor.)
Eisenberg, Charles G., Jr., Wauwatosa, assignor to The Heil Co., Milwaukee, Wis. Bulk material delivery truck. 2,169,463; Aug. 15.
Elite-Diamantwerke Aktiengesellschaft. (See Mehnert, Volkhart W., assignor.)
Elliott, John R., and C. C. Hudson, Atlanta, Ga. Door lock. 2,169,944; Aug. 15.
Emsco Derrick & Equipment Company. (See Hutchins, H. A., and Stewart, assignors.)
Emsco Derrick & Equipment Company. (See McMillan, Wesley K., assignor.)
Englert, Kathryn M., Portland, Oreg. Protective sanitary cover for bedpans. 2,169,834; Aug. 15.
Ensign Carburetor Co. (See Ensign, Roy F., assignor.)
Ensign, Roy F., San Marino, assignor to Ensign Carburetor Co., Ltd., Huntington Park, Calif. Carbureting apparatus. 2,169,487; Aug. 15.
Erb, Norris M. (See Hildebrandt, F. M., and Erb.)
Erickson, John A., Jackson, Mich. Hammer mill. 2,169,684; Aug. 15.
Eslick, Frederick M., Pass Christian, Miss. Trap. 2,169,945; Aug. 15.
Estey, Frederick W., West Stoughton, assignor to George E. Belcher Company, Stoughton, Mass. Display form for footwear. 2,169,835; Aug. 15.
Eureka Vacuum Cleaner Company. (See McCarthy, Arthur L., assignor.)
Evans, Sidney J. (See Bevington, John E., assignor.)
Evans, William E., Waterbury, assignor to The Waterbury Lock & Specialty Company, Milford, Conn. Padlock. 2,169,895; Aug. 15.
Evers, Adolph F., Jr., Denton, Tex. Water-cooling apparatus and method. 2,169,795; Aug. 15.

Evjen, Haakon M., Houston, Tex., assignor to Shell Development Company, San Francisco, Calif. Electrical method of geophysical exploration. 2,169,685; Aug. 15.
Exactor Control Company. (See Parkin, William H., assignor.)
Exhibit Supply Company. (See Radtke, Bruno, assignor.)
Experimental Laboratories Incorporated. (See Dunham, C. A. and A. R., Crosthwait, and Miller, assignors.)
Fabro, Frederick J., et al. (See Irby, David F., assignor.)
Fabrice, Edward H., assignor to Guardian Safety Seal Company, Chicago, Ill. Sealed receptacle. 2,169,686; Aug. 15.
Fahrenhorst, Wolfgang. (See Winter, H., Fahrenhorst, and Schmid.)
Failing, George E., Supply Company, The. (See Caldwell, Walter T., assignor.)
Fallor, Charles W., Forest Hills, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,169,603; Aug. 15.
Fairbanks, E. and T., and Company. (See Hadley, Harlan A., assignor.)
Falcon, Jeronimo, Buenos Aires, Argentina. Convertible automobile body. 2,169,340; Aug. 15.
Fanning, John J., Brooklyn, N. Y. Luggage latch device. 2,169,875; Aug. 15.
Faultless Caster Corporation. (See Noelting, Clarence B. and W. H., assignors.)
Fer-O-Con Corporation. (See Kotrbaty, Guy F., assignor.)
Ferrocon Corporation. (See Kotrbaty, Guy F., assignor.)
Ferro Enamel Corporation. (See McIntyre, G. H., and Sylvester, assignors.)
Ficke, Robert C. (See Osterloh, R. H., Pyle, Voytilla, and Ficke.)
Field, Oscar S. (See Preston, N. D., and Field.)
Fife, Harvey R., Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation. Hydraulic brake fluid. 2,169,231; Aug. 15.
Filatex Corporation. (See Tobias, Fred J., assignor.)
Flanders, Warren B., Philadelphia, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Blower apparatus. 2,169,232; Aug. 15.
Fleetwood Craftsman, Inc. (See Stollsteimer, Frederick J., assignor.)
Fleischel, Gaston, Bleneau, France. Planetary transmission system. 2,169,523; Aug. 15.
Jung, Albert H., Flushing, assignor to United American Metals Corporation, Brooklyn, N. Y. Casting apparatus. 2,169,885; Aug. 15.
Fly Fish Kit Company. (See Schumann, William H., assignor.)
Foley, Charles F. (See Worden, N. P., and Foley.)
Folker, Herbert P., Oakland, assignor to National Safety Appliance Co., Ltd., San Francisco, Calif. Dispensing apparatus. 2,169,445; Aug. 15.
Food Dispenser Company, The. (See Loewe, Alfred F., assignor.)
Food Dispenser Company, The. (See Wildermann, Rudolf, assignor.)
Food Machinery Corporation. (See Kerr, Charles E., assignor.)
Fosgood Corporation. (See Foster, Joseph C., assignor.)
Foster, Joseph C., assignor to Fosgood Corporation, Leominster, Mass. Spectacle temple connection. 2,169,235; Aug. 15.
Foval, Lotus, et al. (See Shifflett, John A., assignor.)
Fowler, Ival G., and J. L. Drake, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio. Electrical glass cutting apparatus. 2,169,687; Aug. 15.
Fowler, Owen H., assignor to Hydraulic Brake Company, Detroit, Mich. Fluid-pressure-producing device. 2,169,524; Aug. 15.
Foxboro Company, The. (See Beal, A. G., and Holmberg, assignors.)
Foxboro Company, The. (See Gill, H. A., and Baker, assignors.)
Foxboro Company, The. (See Macdonald, Waldron S., assignor.)
Francis, Alfred W. (See Davis, H. S., and Francis.)
Fraser, James S., Kettering, and J. Miles, London, England. Clay gun. 2,169,604; Aug. 15.
Frazier, Orville Z., Elkhart, Ind., assignor of one-half to R. H. Frederick, Detroit, Mich. Internal combustion engine. 2,169,236; Aug. 15.
Frederick, Donald S. (See Marvel, C. S., and Frederick.)
Frederick, Robert H. (See Frazier, Orville Z., assignor.)
Frederick, Sherwood. (See Marvel, C. S., and Frederick.)
Freeman, Alpheus J., assignor to Freeman, Incorporated, Chicago, Ill. Apparatus for marking food products. 2,169,412; Aug. 15.
Freeman, Alpheus J., assignor to Freeman, Incorporated, Chicago, Ill. Apparatus for applying identifying means. 2,169,413; Aug. 15.
Freeman, Incorporated. (See Freeman, Alpheus J., assignor.)
Freeport Sulphur Company. (See Lee, C. O., and Smith, assignors.)
French, Henry C. (See Frentzel, H. C., Jr., and French.)
Frentzel, Herman C., Jr., and H. C. French, assignors to The Heil Co., Milwaukee, Wis. Scraper. 2,169,946; Aug. 15.
Freudenberg, Carl, G. m. b. H. (See Freudenberg, Hans, assignor.)
Freudenberg, Hans, Weinheim, assignor to Carl Freudenberg G. m. b. H., Weinheim, Baden, Germany. Absorbent wadding, particularly for surgical purposes. 2,169,947; Aug. 15.
Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Assembler slide for typographical machines. 2,169,974; Aug. 15.
Fricot, D. (See Moore, William G., assignor.)
Fritz, Karl, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Magnetron discharge tube oscillator and frequency multiplier. 2,169,725; Aug. 15.
Frötschner, Hellmuth, Dresden-Laubegast, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Photographic camera. 2,169,688; Aug. 15.
Fruehauf Trailer Company. (See Reid, Frederick M., assignor.)
Fulton, Nell, New York, N. Y. Glove and article holder. 2,169,633; Aug. 15.
Gairing Tool Company. (See West, Claude A., assignor.)
Geier, P. A. Company, The. (See Martinet, Eugene F., assignor.)
Galgano, Frank V. (See Niedermaier, Philip J., assignor.)
Gallon Iron Works and Manufacturing Company, The. (See Keeler, Raymond W., assignor.)
Gallupe, Charles A., Mars Hill, Maine. Ambulant spraying machine. 2,169,948; Aug. 15.
Gardner, Frank G., Maplewood, assignor to Breeze Corporations, Inc., Newark, N. J. Heat shield for spark plug cables. 2,169,689; Aug. 15.
Garrott, John H., Pawtucket, R. I., assignor to The Clark Thread Company, Newark, N. J. Box-marking machine. 2,169,238; Aug. 15.
Gartin, Elmer G., Claremont, N. H., assignor to Sullivan Machinery Company. Rock drill. 2,169,637; Aug. 15.
Gas Fuel Corporation. (See Ditto, Marvin W., assignor.)
Gasco, Pete, Torrance, Calif. Stationary ornament for wheel hub caps. 2,169,237; Aug. 15.
Gast, Edward C., Jr., Cicero, assignor, by mesne assignments, to Acme Visible Records, Inc., Chicago, Ill. Rotating visible frame book. 2,169,488; Aug. 15.
Gazey, William J., assignor to Chase Brass & Co., Incorporated, Waterbury, Conn. Producing waste-pipe fittings. 2,169,896; Aug. 15.
General Aniline Works, Inc. (See Alt, W., and Krzikalla, assignors.)
General Electric Company. (See Anderson, A. E., and Bany, assignor.)
General Electric Company. (See Bedford, Burnice D., assignor.)
General Electric Company. (See Beeman, Donald L., assignor.)
General Electric Company. (See Burmeister, Hermann, assignor.)
General Electric Company. (See Clark, F. M., and Kutz, assignors.)
General Electric Company. (See Herskind, Carl C., assignor.)
General Electric Company. (See Linn, Frank C., assignor.)
General Electric Company. (See McArthur, E. D., and Rowe, assignors.)
General Electric Company. (See McNeil, Roderick S., assignor.)
General Electric Company. (See Prade, Karl, assignor.)
General Electric Company. (See Scott, Carl F., assignor.)
General Electric Company. (See Seeley, Harold T., assignor.)
General Electric Company. (See Stephenson, Hugh M., assignor.)
General Electric Company. (See Treanor, Edward D., assignor.)
General Electric Company. (See von Hoorn, Fred G., assignor.)
General Motors Corporation. (See Dean, Roy H., assignor.)
General Motors Corporation. (See Hofferberth, G. F., and Teeter, assignors.)
General Motors Corporation. (See Keller, Clarence J., assignor.)
General Motors Corporation. (See Kucher, Andrew A., assignor.)
General Motors Corporation. (See Pearce, George C., assignor.)
General Motors Corporation. (See Schweller, Edmund F., assignor.)
General Motors Corporation. (See Smith, Rolf M., assignor.)
General Motors Corporation. (See Smith, Rolf M., assignor.)
General Railway Signal Company. (See Powell, Winfred T., assignor.)
General Railway Signal Company. (See Preston, Neil D., assignor.)
General Railway Signal Company. (See Preston, N. D., and Field, assignors.)
George, Roscoe H., West Lafayette, Ind., assignor to Radio Corporation of America. Oscillograph apparatus. 2,169,726; Aug. 15.
Gevaert Photo-Producten N. V. (See Schwarz, George, assignor.)
Gibney, James L., Buffalo, N. Y. Producing high tensile strength iron. 2,169,464; Aug. 15.
Giddings, Fred M., Galesburg, Ill. Utility scraper and tool. 2,169,414; Aug. 15.
Giese, Willi, Nijmegen, Netherlands. Toilet sheet. 2,169,415; Aug. 15.
Gilbert & Nash Company. (See Nash, William C., assignor.)

Gilfillan, Paul M., assignor to Shellmar Products Company, Mount Vernon, Ohio. Container. 2,169,638; Aug. 15.

Gill, Harry A., Foxboro, and R. H. Baker, Attleboro Falls, assignors to The Foxboro Company, Foxboro, Mass. Galvanometer. 2,169,476; Aug. 15.

Gilpin Autolock Corporation. (See Gilpin, Victor L., assignor.)

Gilpin, Victor L., Baltimore, Md., assignor to Gilpin Autolock Corporation. Automobile lock. 2,169,796; Aug. 15.

Giuseffi, Jerome, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine. Shoulder pad construction. 2,169,489; Aug. 15.

Giuseffi, Jerome, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine. Garment construction. 2,169,490; Aug. 15.

Giuseffi, Jerome, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine. Coat construction. 2,169,491; Aug. 15.

Goetz, Emil. (See Jacobs, George, assignor.)

Goines, Albert C. (See Goines, John L., A. C., and C. S.)

Goines, Charles S. (See Goines, John L., A. C., and C. S.)

Goines, John L., A. C., and C. S., Charlotte, N. C. Paper padding or tableting press. 2,169,341; Aug. 15.

Gold, Leon, assignor of one-half to M. Krivis, Brooklyn, N. Y. Laminating apparatus. 2,169,975; Aug. 15.

Goldberg, David D., Springfield, assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Valve manufacture. 2,169,525; Aug. 15.

Goldberg, David D., Springfield, assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass. Valve. 2,169,526; Aug. 15.

Goldfarb, Jacob A., Frankfort, Ky., assignor to Union Underwear Company, Inc., Indianapolis, Ind. Reinforcement for undergarments. 2,169,402; Aug. 15.

Goodall Worsted Company, The. (See Giuseffi, Jerome, assignor.)

Göttler, Martin, West Reading, assignor to Berkshire Knitting Mills, Wyomissing, Pa. Knitting machine. 2,169,836; Aug. 15.

Gould, Stephen P., and E. O. Whittier, Washington, D. C., dedicated to the free use of the People in the territory of the United States. Fiber. 2,169,690; Aug. 15.

Gouldbourn, Joseph, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating upon sheet material. 2,169,319; Aug. 15.

Goulds Pumps, Inc. (See Carruthers, Eben H., assignor.)

Government of the United States of America, as represented by Secretary of War, The. (See Holmes, H. B., Blood, and Bell, assignors.)

Government of the United States of America, represented by the Secretary of War. (See Zwald, Adolph, assignor.)

Graham, Frank H., South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Distributing frame. 2,169,727; Aug. 15.

Granqvist, Carl-Erik, Stockholm, Sweden, assignor to Hazeltine Corporation. Low frequency amplifier. 2,169,837; Aug. 15.

Grant, John. (See Santiago, James J., assignor.)

Green, Isaac H. C. (See Lawson, R. H., Green, and Cloutier.)

Green, Walker N. (See Cornelius, F. H., and Green.)

Grey Iron Casting Company. (See Schmidt, Samuel S., assignor.)

Griese, William B., assignor to The Crosley Corporation, Cincinnati, Ohio. Refrigerator unit testing. 2,169,605; Aug. 15.

Griffiths, Septimus H., Canton, Ohio. Casting, self-stripping and rapid-cooling steel ingots. 2,169,797; Aug. 15.

Griswold, Roger W., II, Old Lyme, assignor to United Aircraft Corporation, East Hartford, Conn. Slotted deflector flap. 2,169,416; Aug. 15.

Grote, Edward, Berlin-Wilmersdorf, Germany. Clutch mechanism for change-speed gears. 2,169,639; Aug. 15.

Guardian Safety Seal Company. (See Fabrice, Edward H., assignor.)

Guenther, Fritz, and K. Safftien, Ludwigshafen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Producing assistants in the textile and related industries. 2,169,976; Aug. 15.

Gulf Oil Corporation. (See Cantrell, T. L., and Turner, assignors.)

Gulick, Russell A., Winthrop, Mass., assignor, by mesne assignments, to Stator Corporation. Aspirator arrangement. 2,169,640; Aug. 15.

Gurwick, Irving, assignor to Shellmar Products Company, Mount Vernon, Ohio. Printing device. 2,169,641; Aug. 15.

Haberstump, Alfred H., and A. J. Jarosik, assignors to The Murray Corporation of America, Detroit, Mich. Die. 2,169,798; Aug. 15.

Hacmac, Edward R., Hollywood, Calif., assignor to Na-Mac Products Company. Container closure and dispensing device. 2,169,239; Aug. 15.

Hadley, Harlan A., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt. Photoelectric cell control for scales. 2,169,465; Aug. 15.

Hager, Onslow B. (See Powers, D. H., and Hager.)

Hagedorn, Max. (See Ossenbrunner A., Hagedorn, and Wilmanns.)

Hale, Frank B., Bel Air, Md. Valve replacement mechanism. 2,169,241; Aug. 15.

Halkias, Theodore. (See West, Claude J., assignor.)

Hall, C. M., Lamp Company. (See Worden, N. P., and Foley, assignors.)

Hall, John H., Philadelphia, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Manufacture of foundry molds. 2,169,384; Aug. 15.

Hall, John H., Philadelphia, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Manufacture of foundry molds. 2,169,385; Aug. 15.

Hall, John H., Philadelphia, assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa. Manufacture of foundry molds. 2,169,386; Aug. 15.

Hall Planetary Company, The. (See Leisner, Henry J., assignor.)

Haller, Robert. (See Widmer, G., Haller, Landolt, and Schürch.)

Halleran, Henry T., Roselle, and R. Carlon, Elizabeth, N. J., assignors to Simmons Company, New York, N. Y. Glider. 2,169,728; Aug. 15.

Halliburton, Erle P., Los Angeles, Calif., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Formation tester. 2,169,559; Aug. 15.

Halliburton Oil Well Cementing Company. (See Halliburton, Erle P., assignor.)

Halliburton Oil Well Cementing Company. (See O'Donnell, Roland E., assignor.)

Halliburton Oil Well Cementing Company. (See Morrisett, O. L., assignor.)

Hamalainen, Toivo, Finlayson, Minn. Antiskid device for vehicle wheels. 2,169,950; Aug. 15.

Hamant, Edward W. (See Casto, L. V., Von Webern, and Hamant.)

Hammer, Axel V., Copenhagen, Denmark. Machine for treating fats. 2,169,642; Aug. 15.

Hammer, Samuel, assignor to United Metal Box Co., Inc., Brooklyn, N. Y. Impositive lock. 2,169,691; Aug. 15.

Hancock Manufacturing Company. (See Marple, Rollo, assignor.)

Hann, Alan L., Newark, N. J. Beverage cooler. 2,169,387; Aug. 15.

Hannan, Joseph J., Chicago, Ill. Chicken splitter. 2,169,951; Aug. 15.

Hansell, Clarence W., Port Jefferson, N. Y., assignor to Radio Corporation of America. Phase modulation type frequency inverter. 2,169,357; Aug. 15.

Hansen, Augie L., assignor to A. L. Hansen Mfg. Co., Chicago, Ill. Door lock. 2,169,692; Aug. 15.

Hansen, A. L., Mfg. Co. (See Hansen, Augie L., assignor.)

Harbert, Victor H., assignor to Illinois Railway Equipment Company, Chicago, Ill. Wear plate for brake hangers. 2,169,729; Aug. 15.

Hardt, William G., Chicago, Ill. Observation device. 2,169,874; Aug. 15.

Hardwicke-Etter Company. (See Streun, John A. assignor.)

Hartford, Orville E. (See Jones, W. T., and Hartford.)

Hartley, Joseph W. (See Cost, W. A., and Hartley.)

Hartrick, Charles E., assignor to Chicago Motor Coach Company, Chicago, Ill. Fare register. 2,169,466; Aug. 15.

Hatfield Wire & Cable Co. (See Wertzheiser, Joseph, assignor.)

Haupt, William E., Westville, assignor to Automatic Drive and Transmission Company, Gloucester City, N. J. Driving and control apparatus. 2,169,949; Aug. 15.

Haynes, David R., Burlington, Iowa. Air cooling and circulating device for vehicles. 2,169,693; Aug. 15.

Haynes, James F., Murfreesboro, Tenn. Seed harvester. 2,169,527; Aug. 15.

Hazeltine Corporation. (See Case, Nelson P., assignor.)

Hazeltine Corporation. (See Cawein, Madison, assignor.)

Hazeltine Corporation. (See Granqvist, Carl-Erik, assignor.)

Hazeltine Corporation. (See Herbst, Philip J., assignor.)

Hazeltine Corporation. (See Lewis, H. M., and Hergenrother, assignors.)

Heath, Sheldon B., and M. O. Keller, assignors to The Dow Chemical Company, Midland, Mich. Phenol composition. 2,169,240; Aug. 15.

Heftron, William, Bronx, N. Y. Press-stitcher sewing machine. 2,169,528; Aug. 15.

Heil Co., The. (See Eisenberg, Charles G., assignor.)

Heil Co., The. (See Frentzel, H. C., Jr., and French, assignors.)

Helenek, Joseph. (See Werner, O., and Helenek.)

Hemphill Company. (See Lawson, R. H., Green, and Cloutier, assignors.)

Hendrickson, Hugh H., Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill. Railway car vestibule diaphragm. 2,169,694; Aug. 15.

Herbst, Philip J., Bayside, N. Y., assignor to Hazeltine Corporation. Television signal reproducing tube. 2,169,838; Aug. 15.

Hergenrother, Rudolf C. (See Lewis, H. M., and Hergenrother.)

Herndon, Joyce A. (See Davis, Zack T., assignor.)

Herskind, Carl C., Schenectady, N. Y., assignor to General Electric Company. Grid control rectifier. 2,169,876; Aug. 15.

Hester, John C., assignor of one-half to G. Oestreich, Milwaukee, Wis. Transportation means for refrigerating unit containers. 2,169,446; Aug. 15.

Hewitte, John C., Jr., and V. E. Kuster, Long Beach, Calif. Well surveying instrument. 2,169,342; Aug. 15.

Heymer, Gerd, Wolfen, Kreis Bitterfeld, and W. Schultze, Dessau, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Photographic dyestuff picture. 2,169,320; Aug. 15.

Hickman, Albert F., assignor to Hickman Pneumatic Seat Co., Inc., Eden, N. Y. Vehicle spring suspension. 2,169,242; Aug. 15.

Hickman Pneumatic Seat Co. (See Hickman, Albert F., assignor.)

Higbie, Vinton, Paterson, N. J., assignor to Wright Aeronautical Corporation. (Supercharger and cooler arrangement. 2,169,243; Aug. 15.

Hildebrandt, Frank M., Baltimore, and N. M. Erb., Riviera Beach, Md., assignors to U. S. Industrial Alcohol Co., New York, N. Y. Fermentation process. 2,169,244; Aug. 15.

Hildebrandt, Frank M., Baltimore, and N. M. Erb., Riviera Beach, Md., assignors to U. S. Industrial Alcohol Co., New York, N. Y. Glycerol fermentation process. 2,169,245; Aug. 15.

Hildebrandt, Frank M., Baltimore, and N. M. Erb., Riviera Beach, Md., assignors to U. S. Industrial Alcohol Co., New York, N. Y. Butyl acetone fermentation process. 2,169,246; Aug. 15.

Hill, C. V., & Co. (See MacMaster, Frank D., assignor.)

Hill, Robert H., Anderson, Ind., and K. R. Blake, Detroit, Mich. Automatic starting device. 2,169,247; Aug. 15.

Hill, Willard B., Hampton, and W. B. Melvin, Newport News, Va. Equipment for photographic development. 2,169,417; Aug. 15.

Hingst, Rudolf, assignor to Rheinmetall-Borsig Aktiengesellschaft, Berlin-Tegel, Germany. Boiler feeding pump and operating the same. 2,169,418; Aug. 15.

Hitchcock, Albert E. (See Zimmerman, P. W., and Hitchcock.)

Hiza, Paul, Fairfield, Conn. Hardware. 2,169,985; Aug. 15.

Hoch, Edward G., Minneapolis, Minn. Cooler. 2,169,914; Aug. 15.

Hochherr, Ferdinand, Heidelberg, Baden, Germany. Cigar mold. 2,169,839; Aug. 15.

Hofferberth, George F., and W. H. Teeter, assignors to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,169,419; Aug. 15.

Hogarth, Donald D., Los Angeles, Calif. Dispensing apparatus for filling stations. 2,169,529; Aug. 15.

Hollins, Jesse, Brooklyn, N. Y. Grille guard. 2,169,695; Aug. 15.

Holister, Frank O., Los Angeles, Calif. Machine for pitching the coils of helical springs. 2,169,248; Aug. 15.

Hollmann, Hans E., assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Receiver for ultra-short waves. 2,169,358; Aug. 15.

Höllstin, Franz, Berlin, assignor to Rheinmetall-Borsig Aktiengesellschaft Werk Borsig Berlin-Tegel, Berlin-Tegel, Germany. Polishing means. 2,169,841; Aug. 15.

Holmberg, Bernard. (See Beal, A. G., and Holmberg.)

Holmes, Edward D., Chicago, Ill., assignor to Sherwin-Williams Company, Cleveland, Ohio. Proportional mixing scale. 2,169,952; Aug. 15.

Holmes, Harlan B., and H. F. Blood, Portland, Oreg., and M. C. Bell, Seattle, Wash., assignors to the Government of the United States of America, as represented by the Secretary of War. Method of and means for effecting downstream migration of fish about dams. 2,169,249; Aug. 15.

Holroyd, Robert, Durban, Natal, Union of South Africa. Perforating machine. 2,169,799; Aug. 15.

Holst, Gilles, and H. L. van der Horst, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Incandescible cathode. 2,169,643; Aug. 15.

Hopkan Rivet Company. (See Hoppenstand, David, assignor.)

Hoppenstand, David, Glenshaw, assignor to Hopkan Rivet Company, Inc., Pittsburgh, Pa. Freezing tray. 2,169,733; Aug. 15.

Hoppenstand, David, Fox Chapel, Pa. Cord retriever. 2,169,734; Aug. 15.

Hornberger, Clarence L. (See Richter, M., and Hornberger.)

Hotchkiss, Clifford, Bellwood, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Electrically operated heater control. 2,169,696; Aug. 15.

Houde Engineering Corporation. (See Lautz, Carl F., assignor.)

Huberty, Oliver A., Lakewood, Ohio. Clothesline tightener. 2,169,530; Aug. 15.

Hudson, Charles C. (See Elliott, J. R., and Hudson.)

Hudson Motor Car Company. (See Allison, William D., assignor.)

Huffstickler, William A., assignor to Rudisill Machine & Tool Works, Charlotte, N. C. Knot-tying device. 2,169,800; Aug. 15.

Hultgren, Arnold P., assignor to Sears, Roebuck and Co., Chicago, Ill. Instrument dial. 2,169,447; Aug. 15.

Humphrey, George T., Dallas, assignor to Republic Supply Company, Houston, Tex. Pumping device. 2,169,493; Aug. 15.

Huntress, Andrew W., Washington, D. C. Pen attachment. 2,169,644; Aug. 15.

Hurd, Ralph H. (See Youngfelt, T. T., Besal, and Hurd.)

Hutchins, Hugh A., Glendale, and J. S. Stewart, Huntington Park, assignors to Emsco Derrick & Engineering Company, Los Angeles, Calif. Bulldozer attachment for tractors. 2,169,606; Aug. 15.

Huxon Holding Corporation. (See Miller, R. A., and Morris, assignors.)

Hydraulic Brake Company. (See Fowler, Owen H., assignor.)

I. G. Farbenindustrie Aktiengesellschaft. (See Guenther, F., and Saftien, assignors.)

Ifield, Richard J., Solihull, Birmingham, England. Automatically reversible freewheel or one-way locking device. 2,169,645; Aug. 15.

Igoe Brothers, Inc. (See Tubbs, Earl D., assignor.)

Illinois Railway Equipment Company. (See Harbert, Victor H., assignor.)

Ingersoll-Rand Company. (See Mock, John F., assignor.)

Ingraham, E., Company, The. (See Poole, Arthur B., assignor.)

Ingram, Edgar W., and L. W. Ray, assignors to White Castle System, Inc., Columbus, Ohio. Metal building structure. 2,169,388; Aug. 15.

Inland Steel Company. (See Werner, Frank J., assignor.)

International Cigar Machinery Company. (See Neumair, Joseph A., assignor.)

International Engineering Corporation. (See Brace, Kemper P., assignor.)

International Metal Industries Limited. (See Brouse, William H. D.)

Intertype Corporation. (See Freund, Herman R., assignor.)

Ipatieff, Vladimir, and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of butane. 2,169,494; Aug. 15.

Irby, David F., assignor of one-fourth to J. Calzada and one-fourth to F. J. Fabre, Gretna, La. Brake system. 2,169,646; Aug. 15.

Izard, Emmette F., Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Forming films, threads, and the like. 2,169,250; Aug. 15.

Jacobs, George, assignor of one-half to E. Goetz, Detroit, Mich. Wire-bending machine. 2,169,420; Aug. 15.

Jacobsmeyer, Oscar H., et al. (See Shifflett, John A., assignor.)

Jaeger Machine Company, The. (See Cost, W. A., and Hartley, assignors.)

Jaeger Machine Company, The. (See Mosel, Joseph H., assignor.)

Jagenberg-Werke Akt.-Ges. (See Küchler, Karl, assignor.)

Janetschke, Erwin, Berlin-Charlottenburg, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany. Device for the conversion of electric currents or potentials by means of periodically actuated switching contacts. 2,169,560; Aug. 15.

Jarosik, Andrew J. (See Haberstump, A. H., and Jarosik.)

Jarry, Albert G., Paris, France. Motored clock. 2,169,647; Aug. 15.

Jarvis, Frank J., assignor to George Blackburn and Sons Limited, Nottingham, England. Manufacture of patterned fabrics on circular knitting machines which are adapted to produce interlock fabrics. 2,169,801; Aug. 15.

Jeffers, Harry I., Montgomery, Ala. Filing device. 2,169,953; Aug. 15.

Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)

Jeffrey, Max L., Shaker Heights, assignor to The M. L. Jeffrey Corporation, Cleveland, Ohio. Electromagnetic circuit breaker. 2,169,477; Aug. 15.

Jeffrey, M. L., Corporation, The. (See Jeffrey, Max L., assignor.)

Jennings, Howard C., Lufkin, assignor of forty per cent to J. G. Donovan, Houston, Tex. Headlight construction. 2,169,531; Aug. 15.

Jensen, Roy E., Topanga Canyon, assignor of one-fourth to C. Edwards, West Hollywood, and one-fourth to M. L. Murrell, Santa Monica, Calif. Position-locating apparatus. 2,169,532; Aug. 15.

Jessen, Arnold H., Los Angeles, Calif. Transmission synchronizer and gear lock-up. 2,169,495; Aug. 15.

Johns-Manville Corporation. (See Parkinson, John S., assignor.)

Johns-Manville Corporation. (See Voight, Paul A., assignor.)

Jones, William T., Newton, and O. E. Hartford, Malden, assignors to Barnes & Jones, Incorporated, Jamaica Plain, Mass. Orifice device. 2,169,359; Aug. 15.

Johnson, John A., Woodhaven, N. Y. Spool-making apparatus. 2,169,251; Aug. 15.

Jones, Emory D., Detroit, Mich. Valve mechanism of fuel preheating controls. 2,169,321; Aug. 15.

Judd, Irving H., Dearborn, assignor to Whitehead & Kales Company, River Rouge, Mich. Motor vehicle transport. 2,169,648; Aug. 15.

Kangas, Charles, Embarrass, Minn. Drill stem coupling. 2,169,697; Aug. 15.

Kannenberg, Walter F., Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electronic organ. 2,169,842; Aug. 15.

Kasarjian, Armen A., Jackson Heights, Long Island, assignor to Mosler Ignition Corporation, New York, N. Y. Spark plug. 2,169,421; Aug. 15.

Kasten, John B., Fairfield, Ala. Micrometer leveling device. 2,169,533; Aug. 15.

Kaul, Gustav A. E., Hackensack, N. J. Window construction. 2,169,343; Aug. 15.

Kaye, Samuel W., Rocky River, Ohio. Device for producing vibrato. 2,169,762; Aug. 15.

Keane, Joseph A., Bridgeport, Conn., and F. J. Kittrege and A. P. Burns, Worcester, Mass.; said Burns assignor to said Keane and said Kittredge. Package receiving device. 2,169,322; Aug. 15.

Kearney & Trecker Corporation. (See Armitage, Joseph B., assignor.)

Keckler, Charles W., Summit, and A. Raynsford, Bergenfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Selector release circuit. 2,169,389; Aug. 15.

Keefe, Lincoln M., Springfield, Mass., assignor to Remington Rand Inc., Buffalo, N. Y. Record controlled machine. 2,169,583; Aug. 15.

Keelen, Thomas F., Brooklyn, N. Y. Sash cord fastener. 2,169,915; Aug. 15.

Keeler, Raymond W., Galion, Ohio, assignor to The Galion Iron Works and Manufacturing Company. Road building machine. 2,169,916; Aug. 15.

Keeler, Raymond W., Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company. Road roller. 2,169,917; Aug. 15.

Keller, Clarence J., Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich. Apparatus for forming and attaching plug terminals. 2,169,802; Aug. 15.

Keller, Merlin O. (See Heath, S. B., and Keller.)

Keller, William J., St. Louis, Mo. Lantern. 2,169,735; Aug. 15.

Kelley, Albert, Miami Beach, Fla. Beater device. 2,169,607; Aug. 15.

Kelley, Gilbert A., assignor to Surface Combustion Corporation, Toledo, Ohio. Prevention of corrosion. 2,169,584; Aug. 15.

Kelley, John N., assignor to Williams-Kelley Corporation, New York, N. Y. Photographic camera. 2,169,422; Aug. 15.

Kern, Jean G., East Aurora, assignor to National Aniline and Chemical Company, Inc., New York, N. Y. Alkylolamino-methylene compound and making. 2,169,736; Aug. 15.

Kern, Jean G., East Aurora, assignor to National Aniline and Chemical Company, Inc., New York, N. Y. Diazoamino compound and making same. 2,169,737; Aug. 15.

Kerr, Charles E., Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif. Green corn cutting machine. 2,169,963; Aug. 15.

Kessler, George H., and W. Meier, assignors to The Midland Steel Products Company, Cleveland, Ohio. Riveter. 2,169,423; Aug. 15.

Keun, Herman L., Atwater, Ohio. Bottle cover. 2,169,986; Aug. 15.

Kiessling, Max, and A. Krieger, Waterbury, Conn. Two-part stop for separable slide fastener tapes. 2,169,608; Aug. 15.

Kiessling, Max, and A. Krieger, Waterbury, Conn. Making two-part stops for separable slide fastener tapes. 2,169,609; Aug. 15.

Kiessling, Max, and A. Krieger, Waterbury, Conn. Making slide fastener stops. 2,169,610; Aug. 15.

Killefer Manufacturing Corporation. (See Mitchell, R. H., and Sjogren, assignors.)

Kimball, Cyril S., Brooklyn, N. Y. Composition for removing worn lubricant material. 2,169,344; Aug. 15.

Kimmel, Hermann, Munich-Nymphenburg, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt-Berlin, Germany. Transmission line. 2,169,360; Aug. 15.

King, John H., Mansfield, Ohio. Sander. 2,169,951; Aug. 15.

Kirchberg, James M., New Orleans, La. Facing machine. 2,169,803; Aug. 15.

Kittredge, Francis J. (See Keane, J. A., Kittredge, and Burns.)

Klarer, Josef. (See Behnisch, R., Klarer, and Mietzsch.)

Knapp, Leo J., and H. C. Neitzel, Detroit, assignors to Whitehead & Kales Company, River Rouge, Mich. Grating. 2,169,640; Aug. 15.

Kniesche, Harry F., Baltimore, Md. Closing containers and the product thereof. 2,169,804; Aug. 15.

Koch, Theodoor, Oosterbeek, and H. A. van der Kroon, Arnhem, Netherlands, assignors to American Enka Corporation, Enka, N. C. Treatment of casein fibers. 2,169,955; Aug. 15.

Koether, Emil A., Baltimore, Md., assignor, by mesne assignments, to Koppers Company. Grinding machine. 2,169,252; Aug. 15.

Kohn, Siegfried, assignor to The Resinous Products & Chemical Company, Philadelphia, Pa. Varnishes, varnish forming substances, and producing same. 2,169,361; Aug. 15.

Koppers Company. (See Koether, Emil A., assignor.)

Kops Brothers, Inc. (See Kops, Waldemar, assignor.)

Kops, Waldemar, assignor to Kops Brothers, Inc., New York, N. Y. Foundation garment. 2,169,585; Aug. 15.

Kortenbach, Karl, Solingen-Weyer, Germany. Umbrella frame. 2,169,650; Aug. 15.

Kotrbaty, Guy F., New York, N. Y., assignor to Ferrocon Corporation, Bryn Mawr, Pa. Building structure and parts therefor. 2,169,253; Aug. 15.

Kotrbaty, Guy F., Chestnut Hill, assignor to Ferrocon Corporation, Bryn Mawr, Pa. Composite structural member and building unit. 2,169,254; Aug. 15.

Kotrbaty, Guy F., Chestnut Hill, Pa., assignor to Fer-O-Con Corporation, New York, N. Y. Building unit and element. 2,169,255; Aug. 15.

Kraeft, Herman L., Cleveland Heights, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio. Cycle fixture. 2,169,256; Aug. 15.

Krase, Herbert J. (See Booth, C. F., and Krase.)

Kraus, Armin J., assignor to The Richards Chemical Works, Incorporated, Jersey City, N. J. Lubricant. 2,169,918; Aug. 15.

Krebs, William N., Baltimore, Md., and D. W. Seiler, Washington, D. C. Multifrequency signaling apparatus. 2,169,257; Aug. 15.

Krieger, Adolph. (See Kiessling, M., and Krieger.)

Krivis, Moses. (See Gold, Leon, assignor.)

Kronquest, Alfred L., Syracuse, assignor to Continental Can Company, Inc., New York, N. Y. Apparatus for coating can bodies. 2,169,805; Aug. 15.

Krzikalla, Hans. (See Alt, W., and Krzikalla.)

Kucher, Andrew A., Dayton, Ohio. Refrigerating apparatus. 2,169,763; Aug. 15.

Kucher, Andrew A., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,169,919; Aug. 15.

Küchler, Karl, assignor to Jagenberg-Werke Akt.-Ges., Dusseldorf, Germany. Method and machine for producing paper containers. 2,169,345; Aug. 15.

Kuster, Vivian E. (See Hewit, J. C., Jr., and Kuster.)

Kutz, Walter M. (See Clark, F. M., and Kutz.)

Labombarde, William C. (See Pearce, Lewis C., assignor.)

Lachman, Charles, assignor to S & W Fine Foods, Inc., San Francisco, Calif. Preparation of glacé fruit. 2,169,362; Aug. 15.

Laitman, George, Brooklyn, N. Y. Powder puff and making same. 2,169,258; Aug. 15.

Lakin, Harry W., Boston, Mass. Garter. 2,169,259; Aug. 15.

Lamb, Charles, et al. (See Dyer, Zeb A., assignor.)

Lambach, Fritz, Belleville, assignor to American Textile Engineering Inc., Kearny, N. J. Safety device. 2,169,260; Aug. 15.

La Mont Corporation. (See Vorkauf, Heinrich, assignor.)

Lancaster, Jackson G., Farmville, Va. Propelled and dirigible fish bait or lure. 2,169,698; Aug. 15.

Landolt, Albert. (See Widmer, G., Haller, Landolt, and Schürch.)

Lange, Edward H., Baltimore, Md. Filter-unit attachment for tobacco pipes. 2,169,730; Aug. 15.

Lange, Max E., and J. J. N. Van Hamersveld, Cleveland Heights, assignors to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,169,764; Aug. 15.

Lange, Max E., Cleveland Heights, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,169,765; Aug. 15.

Lange, Max E., and J. J. N. Van Hamersveld, Cleveland Heights, assignors to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,169,766; Aug. 15.

Lange, Max E., Cleveland Heights, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,169,767; Aug. 15.

Larrison, George M., Red Bank, N. J. Permanent roofing. 2,169,651; Aug. 15.

Lasley, Edward D., Detroit, Mich., assignor to Automatic Shifters, Inc., Richmond, Va. Gear shifting mechanism for motor vehicles. 2,169,478; Aug. 15.

Lautz, Carl F., assignor to Houde Engineering Corporation, Buffalo, N. Y. Link. 2,169,496; Aug. 15.

Lawrence, A. C., Leather Company. (See Reyster, Henry E., assignor.)

Lawrence, John H., Bronxville, assignor to Metropolitan Engineering Company, Brooklyn, N. Y. Boiler. 2,169,843; Aug. 15.

Lawson, Robert H., Pawtucket, I. H. C. Green, Central Falls, and A. N. Cloutier, Lonsdale, assignors to Hemphill Company, Central Falls, R. I. Device for feeding yarn. 2,169,699; Aug. 15.

Lawton, Howard C. (See Bent, F. A., Loomis, and Lawton.)

Layne, Leslie A., and H. C. Block, Houston, Tex.; said Block assignor to said Layne. Automatic bleeder. 2,169,561; Aug. 15.

Lease, Glen M., York, Pa., assignor to The Dentists' Supply Company of New York, New York, N. Y. Pin for artificial teeth and making same. 2,169,731; Aug. 15.

Leatart, Howard A., Trona, Calif. World time indicating device. 2,169,956; Aug. 15.

Lee, Clarence O., and H. A. Smith, Port Sulphur, La., assignors, by mesne assignments, to Freeport Sulphur Company. Purifying sulphur. 2,169,261; Aug. 15.

Lee, Clarence O., and H. A. Smith, Port Sulphur, La., assignors to Freeport Sulphur Company, Freeport, Tex. Apparatus for purifying sulphur. 2,169,262; Aug. 15.

Legg, Victor E., Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Making magnetic bodies. 2,169,732; Aug. 15.

Légeron, Jean L., Riouperoux, France, assignor to Det norske Aktieselskab for Electrokemisk Industri, Oslo, Norway. Electrode and its suspension. 2,169,563; Aug. 15.

Lehr, Clarence G., Baltimore, Md. Mode of treating tea and coffee and product thereof. 2,169,957; Aug. 15.

Leisner, Henry J., assignor to The Hall Planetary Company, Philadelphia, Pa. Work centering and supporting means for milling machines. 2,169,467; Aug. 15.

Leitz, Ernst, G. m. b. H. (See May, Erwin, assignor.)

Leonard, Merrill G., Sharon, assignor to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,169,586; Aug. 15.

Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining system. 2,169,424; Aug. 15.

Lewis, Harold M., Great Neck, and R. C. Hergenrother, Beechhurst, N. Y., assignor to Hazeltine Corporation. Cathode-ray signal-generating tube. 2,169,840; Aug. 15.

Lian, Camille, Paris, and G. Minot, Ezanville, France. Auscultation microphone. 2,169,806; Aug. 15.

Libby-Owens-Ford Glass Company. (See Burrell, Charles D., assignor.)

Libbey-Owens-Ford Glass Company. (See Fowler, I. G., and Drake, assignors.)

Linch, Edward P., Philadelphia, Pa. Closure fastener for containers. 2,169,448; Aug. 15.

Lincoln Engineering Company. (See Rotter, Lutwin C., assignor.)

Lindgren, Hans O., Appelviken, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator. 2,169,263; Aug. 15.

Lindmark, Johan G., Stockholm, Sweden. Spirit and like cooking stove. 2,169,958; Aug. 15.

Lindsay Wire Weaving Company. (See Buell, E. J., and Martin, assignors.)

Link Belt Company. (See Weiss, C. R., and Parker, assignors.)

Linn, Frank C., Swampscott, Mass., assignor to General Electric Company. Spinning spindle. 2,169,877; Aug. 15.

Linn, Frank C., Swampscott, Mass., assignor to General Electric Company. Lubricating arrangement. 2,169,878; Aug. 15.

Ljungstrom, Olof, Detroit, Mich. Internal combustion engine. 2,169,652; Aug. 15.

Lloyd, Robert J., deceased, Detroit, Mich.; A. Philip, executor. Jig and method for reconditioning the aligning edges of lugs of matrices as used in typesetting machines. 2,169,346; Aug. 15.

Loane, Clarence M., Whiting, and B. H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill. Lubricant. 2,169,700; Aug. 15.

Loewe, Alfred F., New York, N. Y., assignor, by mesne assignments, to The Food Dispenser Company, Hartford, Conn. Closure for dispensers. 2,169,779; Aug. 15.

Logan Gear Company, The. (See Snell, Samuel A., assignor.)

Lombardini, Luigi, Turin, Italy. Drawer of a vertical type for indexing and classifying. 2,169,562; Aug. 15.

Londke, Fred F., Ubly, Mich. Tie lock. 2,169,653; Aug. 15.

Long, Spencer W., Inglewood, assignor to Baash-Ross Tool Company, Los Angeles, Calif. Bushing. 2,169,264; Aug. 15.

Loomis, Albert G. (See Bent, F. A., Loomis, and Lawton.)

Lueckel, William J., assignor to Dunning Lueckel Engineering Company, New York, N. Y. Combined conveying and weighing apparatus. 2,169,897; Aug. 15.

Lund, Henry H. B., London, England. Apparatus for the germination of seeds and the growth of seedlings. 2,169,701; Aug. 15.

Lyon, George R., Highland Park, Mich. Compressor. 2,169,807; Aug. 15.

M & R Dietetic Laboratories, Inc. (See Otting, Herbert E., assignor.)

Macdonald, Waldron S., assignor to The Foxboro Company, Foxboro, Mass. Control apparatus. 2,169,977; Aug. 15.

MacMaster, Frank D., assignor to C. V. Hill & Co., Inc., Trenton, N. J. Display case. 2,169,347; Aug. 15.

Magrath, George H., assignor to The Whitin Machine Works, Whitinsville, Mass. Spinning spindle. 2,169,587; Aug. 15.

Maguire, Irwin L., Elwood, Victoria, Australia. Controlling the signal frequencies in television systems. 2,169,654; Aug. 15.

Maher, Laurence C., Asbury Park, N. J. Vaporized fuel heater for gas engines. 2,169,564; Aug. 15.

Makofske, John J., et al. (See Werner, O., and Helenek.)

Malowan, John E., Dayton, Ohio, assignor to Monsanto Chemical Company. Manufacture of phosphoric acid. 2,169,588; Aug. 15.

Malowan, John E., Dayton, Ohio, assignor to Monsanto Chemical Company. Manufacture of phosphoric acid. 2,169,589; Aug. 15.

Maniscalco, Pietro, Toledo, Ohio. Multistage compressor. 2,169,565; Aug. 15.

Maniscalco, Pietro, Toledo, Ohio. Compressor unit. 2,169,571; Aug. 15.

Mantz, Robert, assignor to City Novelty Corporation, New York, N. Y. Linked ornamental chain. 2,169,265; Aug. 15.

Marple, Rollo, assignor to Hancock Manufacturing Company, Jackson, Mich. Lock. 2,169,535; Aug. 15.

Marsal, Paul A., Lakewood, Ohio, assignor to National Carbon Company, Inc. Dry cell. 2,169,702; Aug. 15.

Marshall, James K. (See Soref, S. M., and Marshall.)

Marshall, Thomas, Jr., Chicago, Ill. Process and apparatus for increasing fuel efficiency of internal combustion engines. 2,169,844; Aug. 15.

Martin, Francis D. (See Buell, E. J., and Martin.)

Martinet, Eugene F., assignor to The P. A. Geier Company, Cleveland, Ohio. Food preparer. 2,169,323; Aug. 15.

Marvel, Carl S., and D. S. Frederick, Urbana, Ill.; said Frederick assignor to said Marvel. Olefin-sulphur dioxide reaction products. 2,169,363; Aug. 15.

Marvel, Carl S., Urbana, Ill., and D. S. Frederick, Moylan, Pa.; said Frederick assignor to said Marvel. Acylated olefin-sulphur dioxide reaction products. 2,169,364; Aug. 15.

Mason, Richard C., Tulsa, Okla. Pumping apparatus. 2,169,703; Aug. 15.

Master Builders Company, The. (See Scripture, Edward W., Jr., assignor.)

Master Lock Company. (See Soref, S. M., and Marshall, assignors.)

Masters, Arthur P., assignor of one-half to H. V. C. Welsby, Wellington, New Zealand. Game apparatus. 2,169,365; Aug. 15.

Mathews Conveyer Company. (See Zink, William J., assignor.)

Matter, Gustave O., Portland, Oreg. Game. 2,169,266; Aug. 15.

May, Erwin, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Motion picture film drive. 2,169,566; Aug. 15.

May, Erwin, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany. Geneva movement for motion picture projection. 2,169,567; Aug. 15.

Mazza, Adolfo, Genoa, Italy. Sleeper for railways, tramways, and the like of cement-asbestos with metallic reinforcements. 2,169,704; Aug. 15.

McArthur, Elmer D., Schenectady, N. Y., and H. E. Rowe, Pittsfield, Mass., assignors to General Electric Company. Demountable discharge apparatus. 2,169,879; Aug. 15.

McBride, Jesse L., Portland, Oreg. Discharging means for flush tanks. 2,169,845; Aug. 15.

McCann, John J., Lowell, and J. Stuer, Lawrence, Mass., assignors to W. H. Baker, Montreal, Quebec, Canada. Weft cutting and holding device for looms. 2,169,768; Aug. 15.

McCarthy, Arthur L., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich. Vacuum cleaner display device. 2,169,655; Aug. 15.

McCleary, Rush F. (See Bruson, H. A., and McCleary.)

McConnell, Philip H. (See Brady, H. J., and McConnell.)

McCormick, Elmer, assignor to John Deere Tractor Company, Waterloo, Iowa. Tractor. 2,169,449; Aug. 15.

McCullough, Neel M., assignor to Pierce Governor Company, Anderson, Ind. Vehicle speed engine limiting device. 2,169,267; Aug. 15.

McCullough, Neel M., assignor to Pierce-Governor Company, Anderson, Ind. Speedometer vehicle speed control device. 2,169,268; Aug. 15.

McCurdy, James W., Erie, Pa., assignor to The Standard Stoker Company, Incorporated. Locomotive tender. 2,169,390; Aug. 15.

McCutchen, William A., Birmingham, Ala. Bottle crate. 2,169,450; Aug. 15.

McDougall, John A., and R. E. McGary, Portland, Oreg. Earth tamping device. 2,169,468; Aug. 15.

McGary, Robert E. (See McDougall, J. A., and McGary.)

McGill Manufacturing Company. (See Popp, Rudolf, assignor.)

McIntyre, Glenn H., Cleveland Heights, and G. R. Sylvester, Shaker Heights, assignors to Ferro Enamel Corporation, Cleveland, Ohio. Apparatus for manufacturing porcelain enamel and glass. 2,169,611; Aug. 15.

McMillan, Wesley K., San Francisco, assignor to Emsco Derrick and Equipment Company, Los Angeles, Calif. Combination scraper, carrier, and spreading machine. 2,169,612; Aug. 15.

McNally, James G., Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company. Cellulose acetate crepe yarns and fabrics, and their manufacture. 2,169,269; Aug. 15.

McNally, James G., assignor to Eastman Kodak Company, Rochester, N. Y. Manufacture of cellulose organic acid ester crepe yarns. 2,169,270; Aug. 15.

McNeely, William M., Memphis, Tenn. Gas cap for automobile tanks. 2,169,656; Aug. 15.

McNeil, Roderick S., Bridgeport, Conn., assignor to General Electric Company. Coffee maker. 2,169,880; Aug. 15.

McRoberts, Richard C., Tama, Iowa. Can opener. 2,169,497; Aug. 15.

Mehnert, Volkhart W., assignor to Elite-Diamantwerke Aktiengesellschaft, Siegmar-Schonau, Germany. Knitting machine. 2,169,469; Aug. 15.

Meier, William. (See Kessler, G. H., and Meier.)

Meigs, Frederick M., Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Moistureproof material and making the same. 2,169,366; Aug. 15.

Melvin, William B. (See Hill, W. B., and Melvin.)

Metals & Controls Corporation. (See Peterson, Arthur W., assignor.)

Metropolitan Engineering Company. (See Lawrence, John H., assignor.)
Michael, Clark D., Huntington, Ind. Overhead door construction. 2,169,271; Aug. 15.
Michael, John H. (See Silless, T. G. A., and Michael.)
Midland Steel Products Company, The. (See Kessler, G. H., and Meier, assignors.)
Miehle Printing Press & Manufacturing Company. (See Dudley, Edward F., assignor.)
Mietzsch, Fritz. (See Behnisch, R., Klarer, and Mietzsch.)
Miles, John. (See Fraser, J. S., and Miles.)
Miller, Max C., Cumberland, R. I. Textile machinery. 2,169,272; Aug. 15.
Miller, Paul D. (See Dunham, Clayton A. and A. R., Crosthwait, and Miller.)
Miller, Ralph A., and W. E. Morris, Detroit, Mich., assignors to Huxon Holding Corporation. Hydraulic cycle control. 2,169,470; Aug. 15.
Mills Company, The. (See Mills, George M., assignor.)
Mills, George M., assignor to The Mills Company, Cleveland, Ohio. Partition structure. 2,169,273; Aug. 15.
Mills, George M., assignor to The Mills Company, Cleveland, Ohio. Partition structure. 2,169,274; Aug. 15.
Mills, John, Winter Haven, Fla., assignor, by mesne assignments, to Crown Can Company, Philadelphia, Pa. Preparing fruit juice. 2,169,367; Aug. 15.
Millson, Henry E., Philadelphia, Pa., assignor to The Calco Chemical Company, Inc., Bound Brook, N. J. Luminous or fluorescent floor covering. 2,169,657; Aug. 15.
Minderman, Robert A., Port Clinton, Ohio. Propeller puller. 2,169,898; Aug. 15.
Minerals Separation North American Corporation. (See Williams, C. F., and Trotter, assignors.)
Minneapolis-Honeywell Regulator Company. (See Hotchkiss, Clifford, assignor.)
Minnesota Mining & Manufacturing Company. (See Okie, Francis G., assignor.)
Minot, Georges. (See Lian, C., and Minot.)
Mitchell, Rollie H., and O. W. Sjogren, Huntington Park, Calif., assignors, by mesne assignments, to Killefer Manufacturing Corporation. Disk harrow. 2,169,471; Aug. 15.
Mock, John F., Phillipsburg, assignor to Ingersoll-Rand Company, Jersey City, N. J. Steel retainer. 2,169,921; Aug. 15.
Molins Machine Company. (See Ruau, F. F., and Bingham, assignors.)
Molz, Henry, Glendale, Calif. Device for controlling and planning production, order dispatching, stores, and sales. 2,169,498; Aug. 15.
Monnot, Edward L., assignor to The Weber Dental Manufacturing Company, Canton, Ohio. Dental cuspidor construction. 2,169,324; Aug. 15.
Monowatt Electric Corporation. (See Benander, George B., assignor.)
Monsanto Chemical Company. (See Booth, C. F., and Krase, assignors.)
Monsanto Chemical Company. (See Malowan, John E., assignor.)
Monsanto Chemical Company. (See Sibley, Robert L., assignor.)
Moody, Frank S., Los Angeles, Calif. Adjustable watch-case for wrist watches. 2,169,738; Aug. 15.
Moore, William E., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa. Electric furnace and electrode mechanism therefor. 2,169,808; Aug. 15.
Moores, William G., assignor of one-half to D. Fricot, Angels Camp, Calif. Gate latch. 2,169,846; Aug. 15.
Morrell, Jacque C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of gaseous paraffin hydrocarbons. 2,169,809; Aug. 15.
Morris, Charles E., Hampton, Va. Score card. 2,169,536; Aug. 15.
Morris, Will E. (See Miller, R. A., and Morris.)
Morrisett, O. L., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Apparatus for multiple stage cementing. 2,169,568; Aug. 15.
Morton, William A., Mount Lebanon, and H. F. Spencer, assignors to Amco, Incorporated, Pittsburgh, Pa. Recuperative soaking pit furnace. 2,169,425; Aug. 15.
Morton, William A., Mount Lebanon, assignor to Amco, Incorporated, Pittsburgh, Pa. Composite tumbler. 2,169,426; Aug. 15.
Mosca, Antonio, Troy, N. Y. Fur glazing machine. 2,169,427; Aug. 15.
Mosel, Joseph H., assignor to The Jaeger Machine Company, Columbus, Ohio. Method and apparatus for building roads. 2,169,987; Aug. 15.
Mosher, Hugh H., Nutley, assignor to The Richards Chemical Works, Incorporated, Jersey City, N. J. Reagent used in simultaneous dyeing and degumming fabrics. 2,169,881; Aug. 15.
Mosler Ignition Corporation. (See Kasarjian, Armen A., assignor.)
Mouw, Andrew, Ann Arbor, assignor to No Sag Spring Company, Detroit, Mich. Spring device. 2,169,705; Aug. 15.
Mueller Co. (See Mueller, Frank H., assignor.)
Mueller, Emil C., Jr. (See Baker, C. I., Mueller, and Redmond.)
Mueller, Frank H., assignor to Mueller Co., Decatur, Ill. Lubricated valve. 2,169,810; Aug. 15.
Munson, Joseph J. (See Dahlberg, C. F., and Munson.)
Murphy, Edward A., Wylde Green, Birmingham, G. W. Trobridge, Sutton Coldfield, and A. N. Ward, Alum Rock, Birmingham, assignors to Dunlop Rubber Company Limited, London, England. Production of rubber structures and making the same. 2,169,847; Aug. 15.
Murphy, Frank R., assignor to J. P. Devine Manufacturing Co., Inc., Mount Vernon, Ill. Flaker. 2,169,275; Aug. 15.
Murphy, Harry S., Attica, assignor to Cooney Refrigeration Company, Inc., Buffalo, N. Y. Boiler. 2,169,276; Aug. 15.
Murphy, Howard J., Greenwood, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Lamp socket device. 2,169,964; Aug. 15.
Murray Corporation of America, The. (See Haberstump, A. H., and Jarosik, assignors.)
Murray-Ohio Manufacturing Company. (See Kraeft, Herman L., assignor.)
Murrell, Manuel L., et al. (See Jensen, Roy E., assignor.)
Murray, Thomas E., Jr., Brooklyn, N. Y. Furnace bottom. 2,169,848; Aug. 15.
Murray, Wallace J., Dedham, and E. P. Stevenson, Newton, Mass. Oxidizing agent and making. 2,169,368; Aug. 15.
Myers, Lewis C., Freeport, assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,169,349; Aug. 15.
Myers, Walter, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J. Finishing seam and method. 2,169,590; Aug. 15.
N. V. Philips' Gloeilampenfabrieken. (See Holst, G., and Der Horst, assignors.)
Na-Mac Products Company. (See Hacmac, Edward R., assignor.)
Nash-Kelvinator Corporation. (See Philipp, Lawrence A., assignor.)
Nash, William C., assignor to Gilbert & Nash Company, Neenah, Wis. Guide control mechanism. 2,169,706; Aug. 15.
National Aniline and Chemical Company. (See Kern, Jean G., assignor.)
National Carbon Company. (See Marsal, Paul A., assignor.)
National Safety Appliance Co. Ltd. (See Folker, Herbert P., assignor.)
National Standard Company. (See Dahlberg, Åke, assignor.)
Neitzel, Henry C. (See Knapp, L. J., and Neitzel.)
Neumair, Joseph A., Hollis, N. Y., assignor to International Cigar Machinery Company. Banding mechanism. 2,169,591; Aug. 15.
Nevison, Frederick J., The Bank, Barnard Castle, England. Preserving fish, frogs, and the like. 2,169,811; Aug. 15.
New Jersey Zinc Company, The. (See Winter, H., Fahrenhorst, and Schmid, assignors.)
Newton, Frank, Presidio of Monterey, Calif. Silencer for explosive engines. 2,169,658; Aug. 15.
Niederlehner, Milton J., Cincinnati, Ohio, assignor to V. F. Zahodiakin, New York, N. Y. Piston ring. 2,169,613; Aug. 15.
Niedermaier, Philip J., assignor of one-half to F. V. Galgano, Newark, N. J. Tree branch and stick holder. 2,169,965; Aug. 15.
Niemeyer, Walter F., Marion County, Ind. Poultry roost. 2,169,499; Aug. 15.
Nilsson, Walter E., New York, N. Y. Water unicycle. 2,169,391; Aug. 15.
Nixon Nitration Works. (See Schuster, Charles, assignor.)
Noble, Percy W., Unadilla, N. Y., and A. R. Powell, London, England. Soldering. 2,169,659; Aug. 15.
Noelting, William H. (See Noelting, Clarence B. and W. H.)
Noelting, Clarence B. and W. H., assignors to Faultless Caster Corporation, Evansville, Ind. Caster socket. 2,169,882; Aug. 15.
Norrito, Earl F., Malverne, N. Y. Multicircuit jack. 2,169,988; Aug. 15.
No Sag Spring Company. (See Mouw, Andrew, assignor.)
Notley, Joseph H., assignor of one-half to Brauer Machine & Supply Company, Oklahoma City, Okla. Well clean-out bailer. 2,169,922; Aug. 15.
Novak, Julius J., Cleveland, Ohio. Sustaining and propelling member for fluid-sustained craft. 2,169,325; Aug. 15.
Nowak, John J., Buffalo, N. Y. Refluent ear nozzle. 2,169,923; Aug. 15.
Obermeit, Fritz, Leipzig, Germany. Peeling machine for potatoes, etc. 2,169,707; Aug. 15.
O'Callaghan, Jerome J., Chicago, Ill., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass. Securing device. 2,169,708; Aug. 15.
O'Donnell, Roland E., Midland, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Plugging off bottom hole water under pressure. 2,169,569; Aug. 15.
O'Dowd, Henry W., Jersey City, N. J., assignor to Standard Gas Equipment Corporation. Gas range. 2,169,660; Aug. 15.
Oehler, Alvin W., R. L. Anderson, and L. A. Paradise, assignors to Deere & Company, Moline, Ill. Combine. 2,169,472; Aug. 15.
Oestreich, Godfrey. (See Hester, John C., assignor.)

Öhreneder, Karl, Vienna, Austria. Time switch. 2,169,924; Aug. 15.
Oil Devices. (See Breese, James L., assignor.)
Okie, Francis G., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn. Composite sheet material. 2,169,277; Aug. 15.
Olsen, Fredrich, East Alton, Ill., assignor to The Cellulose Research Corporation. Producing cellulose pulp. 2,169,473; Aug. 15.
Olsson, Lorentz K. (See Weiertz, P. A. R., and Olsson.)
Ornberg, Raymond N., et al. (See Anderson, Chester A., assignor.)
Ossenbrunner, Armin, and M. Hagedorn, Dessau, Anhalt, and G. Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y. Manufacture of films. 2,169,537; Aug. 15.
Osterloh, Robert H., C. Pyle, J. E. Voytilla, and R. C. Ficke, Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Scrubbing gases containing low boiling aldehydes. 2,169,369; Aug. 15.
Otting, Herbert E., Westerville, Ohio, assignor to M & R Dietetic Laboratories, Inc. Manufacturing flavoring for alimentary products. 2,169,278; Aug. 15.
Otto, Dr. C., & Company et al. (See Pieters, Honore A. J., assignor.)
Owen, William, Pittsburgh, assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa. Apparatus for manipulating glass plates. 2,169,739; Aug. 15.
Owens-Illinois Glass Company. (See Vogt, Clarence W., assignor.)
Oxford Varnish Corporation. (See Casto, L. V., von Webern, and Hamant, assignors.)
Oxford Varnish Corporation. (See von Webern, Guido, assignor.)
Oyster, Earl F., Shaker Heights, Ohio. Molding. 2,169,279; Aug. 15.
Packard Motor Car Company. (See Best, Frank C., assignor.)
Paffrath, Georg, Berlin-Sudende, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Television and sound receiver. 2,169,883; Aug. 15.
Palkin, Samuel, and T. C. Chadwick, Washington, D. C., dedicated to the free use of the People of the United States of America. Gauge for measurement of gas pressure. 2,169,812; Aug. 15.
Paradise, Louis A. (See Oehler, A. W., Anderson, and Paradise.)
Parish, Howard. (See Sweet, J. E., De Peugh, and Parish.)
Parker, Humphrey F., Detroit, Mich. Fluid motor. 2,169,451; Aug. 15.
Parker, Richard W. (See Weiss, C. R., and Parker.)
Parkin, William H., Alperton, assignor to Exactor Control Company Limited, Alperton, Middlesex, England. Mechanical remote control apparatus. 2,169,813; Aug. 15.
Parkinson, John S., Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y. Sound-absorbing article. 2,169,370; Aug. 15.
Parmentel, Victoria, New Orleans, La. Scalp protector. 2,169,925; Aug. 15.
Parva Products Company. (See White, Paul W., assignor.)
Patrick, Joseph C., Trenton, assignor to Thiokol Corporation, Yardville, N. J. Bonding and coating product. 2,169,814; Aug. 15.
Patterson, Edgar W., Long Beach, Calif. Well pump operating mechanism. 2,169,815; Aug. 15.
Pattiani, Alois W., Oakland, Calif. Flat metal-covered roof. 2,169,428; Aug. 15.
Payne, Mathew, Rochelle Park, N. J. Syringe. 2,169,371; Aug. 15.
Payne, Oscar V., Leicester, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Motor driven let-off. 2,169,326; Aug. 15.
Pearce, George C., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,169,989; Aug. 15.
Pearce, Lewis C., Cleveland, Ohio, assignor, by mesne assignments, to W. C. Labombarde, Nashua, N. H. Machine for and method of applying transparent windows to envelope blanks. 2,169,978; Aug. 15.
Pearson, Thomas F., Pontefract, England, assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Skimming device for glass tanks or furnaces. 2,169,429; Aug. 15.
Peck, Louis E., assignor to Thomas Machine Manufacturing Company, Pittsburgh, Pa. Press. 2,169,614; Aug. 15.
Pecker, Joseph S., Philadelphia, Pa. Felt treating machine. 2,169,372; Aug. 15.
Pederson, Myron K., Albert Lea, Minn. Building frame construction. 2,169,474; Aug. 15.
Peek, Robert L., Jr., Townley, N. J., assignor to Bell Telephone, Laboratories, Incorporated, New York, N. Y. Relay. 2,169,740; Aug. 15.
Peninsular Metal Products Corporation. (See Shaughnessy, Harry G., assignor.)
Penrod, Melvin A., Franklin Township, Westmoreland County, assignor to The Union Switch & Signal Company, Swissvale, Pa. Railway traffic controlling apparatus. 2,169,615; Aug. 15.
People in the territory of the United States, Dedicated to the free use of the. (See Gould, Stephen P., and E. O. Whittier.
People of the United States of America, Dedicated to the free use of the. (See Palkin, S., and Chadwick.)
Perera, Guido. (See Rossi, U., assignor.)
Perkins, F., Limited. (See Chapman, Charles W., assignor.)
Perrin, René, assignor to Societe d'Electrochimi d'Electrometallurgie et des Acieries Electriques d'Ugine, Paris, France. Manufacture of alloys and in particular of ferro-alloys or of inoxidizable steels. 2,169,741; Aug. 15.
Peterson, Arthur W., North Attleboro, assignor to Metals & Controls Corporation, Attleboro, Mass. Alloy. 2,169,502; Aug. 15.
Pfanstiehl, Carl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company. Forming shaped small objects. 2,169,280; Aug. 15.
Pfanstiehl, Carl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company. Apparatus for forming shaped small objects. 2,169,281; Aug. 15.
Pfanstiehl, Carl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company. Small shaped metallic object. 2,169,966; Aug. 15.
Pfanstiehl Chemical Company. (See Pfanstiehl, Carl, assignor.)
Pfeffer, Edward C., Jr., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Coating can bodies. 2,169,816; Aug. 15.
Philip, Arthur, executor. (See Lloyd, R. J.)
Philipp, Lawrence A., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich. Air conditioning system. 2,169,900; Aug. 15.
Philipp, Lawrence A., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich. Air conditioning system. 2,169,809; Aug. 15.
Phillips, Chas. H., Chemical Co. (See Walton, B., assignor.)
Pierce Governor Company. (See McCullough, Neel M., assignor.)
Pieters, Honoré A. J., Heerlen, Netherlands, assignor of one-half to Dr. C. Otto & Company, Bochum, Germany, and one-half to Staatsmijnen in Limburg, Heerlen, Netherlands. Removal of H_2S and HCN from gases. 2,169,282; Aug. 15.
Pine, Herman. (See Ipatieff, V., and Pines.)
Pippin, John W., Corpus Christi, Tex. Drilling apparatus. 2,169,283; Aug. 15.
Pitcairn, Harold F., Beyn Athyn, Pa., assignor by mesne assignments, to Autogiro Company of America. Aircraft with rotative sustaining blades. 2,169,849; Aug. 15.
Pittsburgh Plate Glass Company. (See Currie, Kent D., assignor.)
Pittsburgh Plate Glass Company. (See Owen, William, assignor.)
Pittsburgh Plate Glass Company. (See Stroud, Charles E., assignor.)
Pittsburgh Research Corporation. (See Moore, William E., assignor.)
Ploeger, Clyde E., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Refrigeration. 2,169,284; Aug. 15.
Ponomareff, Alexander L., Drexel Hill, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Blower apparatus. 2,169,233; Aug. 15.
Ponomareff, Alexander L., Springfield, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Blower apparatus. 2,169,234; Aug. 15.
Poole, Arthur B., assignor to The E. Ingraham Company, Bristol, Conn. Combined electric motor and speed-reduction-train unit. 2,169,901; Aug. 15.
Popp, Rudolf, assignor to McGill Manufacturing Company, Valparaiso, Ind. Combination terminal and contact member for an electric switch. 2,169,593; Aug. 15.
Porsche, F., Dr. ing. h.c., K.-G. (See Porsche, Ferdinand, assignor.)
Porsche, F., Dr. ing. h.c., K.-G. (See Rabe, Karl, assignor.)
Porsche, Ferdinand, Stuttgart, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany. Vehicle suspension. 2,169,373; Aug. 15.
Powell, Alan R. (See Noble, P. W., and Powell.)
Powell, Winfred T., Brighton, assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,169,479; Aug. 15.
Power Patents Company. (See Brandt, David G., assignor.)
Powers, Donald H., Moorestown, N. J., and O. B. Hager, assignors to Röhm & Haas Company, Philadelphia, Pa. Production of cellulosic textile fabric. 2,169,392; Aug. 15.
Powrie, Thomas K., Paisley, Scotland. Ring for spinning, doubling, or twisting frames. 2,169,709; Aug. 15.
Prade, Karl, Nuremberg, Germany, assignor to General Electric Company. Hotplate. 2,169,884; Aug. 15.
Preston, Neil D., and O. S. Field, assignors to General Railway Signal Company, Rochester, N. Y. Track circuit for railroads. 2,169,285; Aug. 15.
Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Track circuit for railroads. 2,169,286; Aug. 15.
Preston, Neil D., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,169,480; Aug. 15.

Preve, Francois V., Long Island City, N. Y. Manicure bowl. 2,169,990; Aug. 15.
Public in the territory of the United States, dedicated to the free use of the. (See Dearborn, Frederick E.)
Purdue Research Foundation. (See Adas, Thomas L., assignor.)
Pyle, Cyrus. (See Osterloh, R. H., Pyle, Voytilla, and Ficke.)
Rabe, Karl, Stuttgart, assignor to Dr. ing h.c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany. Spring mechanism. 2,169,850; Aug. 15.
Radford, Douglas R., et al. (See Dyer, Zeb A., assignor.)
Radio Corporation of America. (See del Valle, Guillermo A., assignor.)
Radio Corporation of America. (See George, Roscoe H., assignor.)
Radio Corporation of America. (See Hansell, Clarence W., assignor.)
Radio Corporation of America. (See Roberts, Walter V., assignor.)
Radio Corporation of America. (See Tunick, Harry, assignor.)
Radio Corporation of America. (See Usselman, George L., assignor.)
Radtke, Bruno, assignor to Exhibit Supply Company, Chicago, Ill. Switch Mechanism. 2,169,287; Aug. 15.
Ransom, Robert D., Mount Vernon, Ohio. Bath mat. 2,169,902; Aug. 15.
Ratcliffe, John T., Frinton-on-Sea, England. Tipping load-carrying platform. 2,169,661; Aug. 15.
Ray, Loyd W. (See Ingram, E. W., and Ray.)
Raynsford, Arthur. (See Keckler, C. W., and Raynsford.)
Redmond, Frederic J. (See Baker, C. I., Mueller, and Redmond.)
Regenhardt, Walter F., Cleveland, Ohio. Cabinet construction. 2,169,769; Aug. 15.
Reid, Frederick M., assignor to Fruehauf Trailer Company, Detroit, Mich. Tank vehicle. 2,169,500; Aug. 15.
Reinholz, Franz, Frankfort-on-the-Main, Germany. Device for producing vegetable infusion. 2,169,430; Aug. 15.
Remington Rand Inc. (See Keefe, Lincoln M., assignor.)
Republic Supply Company. (See Humphrey, George T., assignor.)
Resinous Products & Chemical Company, The. (See Bruson, H. A., and McCleary, assignors.)
Resinous Products & Chemical Company, The. (See Kohn, Siegfried, assignor.)
Reynolds, Richard S., Glen Cove, N. Y. Continuous process of casting thin film. 2,169,288; Aug. 15.
Rheem Manufacturing Company. (See Rheem, Richard S., assignor.)
Rheem, Richard S., Oakland, assignor to Rheem Manufacturing Company, Richmond, Calif. Drum. 2,169,395; Aug. 15.
Rheinmetall-Borsig Aktiengesellschaft. (See Hingst, Rudolf, assignor.
Rheinmetall-Borsig Aktiengesellschaft Werk Borsig Berlin-Tegel. (See Höllstin, Franz, assignor.)
Ricard, Arthur P., Slater, Mo. Valve. 2,169,452; Aug. 15.
Rice, Charles D., West Hartford, Conn. Railway train. 2,169,616; Aug. 15.
Rice, Frank E., assignor to American Tap-Bush Company, Detroit, Mich. Direct tapping faucet structure. 2,169,393; Aug. 15.
Richard, Edward B. (See Baum, Henry, assignor.)
Richards Chemical Works, Incorporated, The. (See Kraus, Armin J., assignor.)
Richards Chemical Works, Incorporated, The. (See Mosher, Hugh H., assignor.)
Richards, Willard R., Buffalo, N. Y. Garment hanger. 2,169,431; Aug. 15.
Richardson, Jarius S., Sheboygan Falls, Wis. Feeding mechanism. 2,169,394; Aug. 15.
Richter, Max, West Reading, and C. L. Hornberger, Ephrata, assignors to Textile Machine Works, Wyomissing, Pa. Straight knitting machine. 2,169,979; Aug. 15.
Rinks, James R., Nashville, Tenn. Grade crossing traffic control. 2,169,926; Aug. 15.
Riszdorfer, Odön, Budapest, Hungary. Photographic film camera with electric exposure meter built in. 2,169,927; Aug. 15.
Rittenhouse, Lloyd, assignor to The A. E. Rittenhouse Co., assignor.)
Rittenhouse, Lloyd, assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Signal device. 2,169,770; Aug. 15.
Robbins, Samuel B., Boise City, Okla., and M. P. Scholl, Ellensburg, Wash.; said Robbins assignor of one-half to said Scholl. Engine. 2,169,289; Aug. 15.
Roberts, Walter V., Princeton, N. J., assignor to Radio Corporation of America. Oscillation generation system. 2,169,374; Aug. 15.
Robertson, William W., Northboro, assignor to Crompton & Knowles Loom Works, Worcester, Mass. Tipping motion for Axminster looms. 2,169,327; Aug. 15.
Robinson, Cecil S., Ithaca, N. Y. Aerial camera mount. 2,169,432; Aug. 15.
Robinson-Houchin Optical Company. (See Buttner, Theodore W., assignor.)
Rock County Savings and Trust Company, executor. (See Curtiss, Charles E., assignor.)
Röhm & Haas Company. (See Powers, D. H., and Hager, assignors.)
Rolph, Samuel W., Shaker Heights, assignor to Willard Storage Battery Company, Cleveland, Ohio. Storage battery. 2,169,771; Aug. 15.
Romnes, Haakon I., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission level transient change indicator. 2,169,851; Aug. 15.
Roncl, Victor L., Brooklyn, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Sealed joint for conductors. 2,169,570; Aug. 15.
Roselund, Harold A. (See Buzzard, G. H., and Roselund.)
Rosenblum, Israel, Jackson Heights, N. Y. Resinous condensation products and preparing same. 2,169,991; Aug. 15.
Rossi, Umberto, Milan, Italy, assignor to G. Perera, New York, N. Y. Transparent mounting frame for pictures. 2,169,290; Aug. 15.
Rotter, Lutwin C., Maplewood, assignor to Lincoln Engineering Company, St. Louis, Mo. Lubricating apparatus. 2,169,291; Aug. 15.
Rowan, John V., University City, Mo. Garment hanger. 2,169,538; Aug. 15.
Rowe, Hobart E. (See McArthur, E. D., and Rowe.)
Roy, Thomas A., Brooklyn, N. Y. Nail-driving device. 2,169,433; Aug. 15.
Royal, Thomas M., & Company. (See Wagner, Melvin, assignor.)
Royal Typewriter Company. (See Myers, Lewis C., assignor.)
Royal Typewriter Company. (See Utz, Anthony, assignor.)
Ruau, Félix F., and A. Bingham, London, assignors to Molins Machine Company, Limited, Dextford, London, England. Manufacture of cigarettes. 2,169,662; Aug. 15.
Rudisill Machine & Tool Works. (See Huffstickler, William A., assignor.)
Ruehl, George F., Detroit, Mich. Window. 2,169,903; Aug. 15.
Ruhl, Charles L., Dallas, Tex. Composite tray and rack. 2,169,292; Aug. 15.
Russell, Carl P., Annapolis, Md. Power-operated amalgamator. 2,169,817; Aug. 15.
S & W Fine Foods, Inc. (See Lachman, Charles, assignor.)
S & W Fine Foods, Inc. (See Sanchez, John, assignor.)
Saftien, Karl. (See Guenther, F., and Saftien.)
St. Clair, John A., Indianapolis, Ind. Tool-shaping template. 2,169,398; Aug. 15.
Saley, Henry, Blue River, Wis. Gambrel. 2,169,928; Aug. 15.
Salvesen, Richard E., Forest City, Iowa. Dispensing cap. 2,169,501; Aug. 15.
Samuel, Arthur L., Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal-translating apparatus. 2,169,396; Aug. 15.
Sanchez, John, assignor to S & W Fine Foods, Inc., San Francisco, Calif. Cherry pitter head. 2,169,375; Aug. 15.
Sanders, Marsh. (See Crandall, M., and Sanders.)
Santiago, James J., assignor to John Grant, Los Angeles, Calif. Well bore enlarging tool. 2,169,502; Aug. 15.
Saperston, Mark J. (See Adams, Thomas C., assignor.)
Scharlau, Hans, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Receiving apparatus for direction finding. 2,169,742; Aug. 15.
Schellenger, Newton C., assignor to Chicago Telephone Supply Co., Elkhart, Ind. Electrical resistance and making same. 2,169,594; Aug. 15.
Schenbeck, Rufus, Toledo, Ohio. Coal chute carrier. 2,169,453; Aug. 15.
Schlage Lock Company. (See Schlage, Walter R., assignor.)
Schlage, Walter R., assignor to Schlage Lock Company, San Francisco, Calif. Door lock. 2,169,743; Aug. 15.
Schlegel Manufacturing Company, The. (See Schlegel, Manufacturing Company, Rochester, N. Y. Window mounting. 2,169,503; Aug. 15.
Schlegel, Charles P., assignor to The Schlegel Manufacturing Company, Rochester, N. Y. Window mounting. 2,169,504; Aug. 15.
Schlegel Manufacturing Company, The. (See Schlegel, Charles P., assignor.)
Schmid, Erich. (See Winter, H., Fahrenhorst, and Schmid.)
Schmidt, Benjamin F., Los Angeles, Calif. Electric motor. 2,169,617; Aug. 15.
Schmidt, Harold V., Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y. Cable reel lagging. 2,169,293; Aug. 15.
Schmidt, Samuel S., York, assignor to Grey Iron Casting Company, Mount Joy, Pa. Toy. 2,169,710; Aug. 15.
Scholl, Marshal P. (See Robbins, S. B., and Scholl.)
Schuchardt, Carl W. (See Cormack, John A., assignor.)
Schulz, Reinhold E. C. (See Berndt, H. R., and Schulz.)
Schumann, William H., assignor to Fly Fish Kit Company, Kent, Ohio. Fishing lure. 2,169,929; Aug. 15.
Schürch, Arthur. (See Widmer, G., Haller, Landolt, and Schürch.)
Schuster, Charles, Fords, assignor to Nixon Nitration Works, Nixon, N. J. Inlaid cellulose plastic bodies. 2,169,930; Aug. 15.

Schwartz, George, assignor to Gevaert Photo-Producten N. V., Antwerp, Belgium. Dequaternating quaternary ammonium dyestuffs. 2,169,434; Aug. 15.
Schweitzer, Howard V., Cleveland, Ohio. Conveyer. 2,169,772; Aug. 15.
Schweller, Edmund F., assignor to General Motors Corporation, Dayton, Ohio. Thermometer bracket. 2,169,904; Aug. 15.
Schwem, William C., Denham Springs, La. Tobacco pipe. 2,169,931; Aug. 15.
Scott, Carl F., Milford, Conn., assignor to General Electric Company. Coffee maker. 2,169,852; Aug. 15.
Scott, Lloyd H., Sidney, N. Y. Spark generating system. 2,169,818; Aug. 15.
Scull, Herbert M., U. S. Navy. Method and system of motor control. 2,169,294; Aug. 15.
Scovill Manufacturing Company. (See Williams, Selden T., assignor.)
Schultze, Werner. (See Heymer, G., and Schultze.)
Scripture, Edward W., Jr., Shaker Heights, assignor to The Master Builders Company, Cleveland, Ohio. Cement mix. 2,169,980; Aug. 15.
Searles, Wayne S., assignor to Universal Optical Corporation, Providence, R. I. Lens strap mounting. 2,169,666; Aug. 15.
Sears, Roebuck and Co. (See Hultgren, Arnold P., assignor.)
Sears, Sterling G., Garden City, assignor to Dictograph Products Company, Inc., New York, N. Y. Sound-reproducing system. 2,169,744; Aug. 15.
Seeley, Harold T., Lansdowne, Pa., assignor to General Electric Company. Supervision of electric systems. 2,169,853; Aug. 15.
Seiler, Donald W. (See Krebs, W. N., and Seiler.)
Sekella, Youston, Elmira, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind. Clamp and drill jig. 2,169,328; Aug. 15.
Sendzimir, Tadeusz, Katowice, Poland, assignor to The American Rolling Mill Company, Middletown, Ohio. Rolling mill adjustment. 2,169,711; Aug. 15.
Servel, Inc. (See Bergholm, Harry K., assignor.)
Servel, Inc. (See Ploeger, Clyde E., assignor.)
Servel, Inc. (See Shuart, Arthur C., assignor.)
Servel, Inc. (See Strandberg, Paul, assignor.)
Sevek, Louis, Omaha, Nebr. Intestine-cleaning mechanism. 2,169,905; Aug. 15.
Seymour, George W., Cumberland, Md., assignor to Celanese Corporation of America. Stabilizing organic esters of cellulose. 2,169,329; Aug. 15.
Seymour, George W., Cumberland, Md., assignor to Celanese Corporation of America. Organic esters of cellulose. 2,169,330; Aug. 15.
Shackleton, Jack. (See Dearsley, G., and Shackleton.)
Shanley, Walter A., Brooklyn Heights, N. Y. Mechanical motion. 2,169,663; Aug. 15.
Shaughnessy, Harry G., Highland Park, Mich., assignor to Peninsular Metal Products Corporation. Trailer draft connection. 2,169,299; Aug. 15.
Shaw, Kenneth R., assignor to Easthampton Rubber Thread Co., Easthampton, Mass. Manufacture and use of rubber thread. 2,169,886; Aug. 15.
Shebol, Joseph, Syracuse, N. Y. Electric motor. 2,169,539; Aug. 15.
Shell Development Company. (See Bent, F. A., Loomis, and Lawton, assignors.)
Shell Development Company. (See Evjen, Haakon M., assignor.)
Shellmar Products Company. (See Gilfillan, Paul M., assignor.)
Shellmar Products Company. (See Gurwick, Irving, assignor.)
Shelton, Stephen M., Reno, Nev. Purification of manganese sulphate solutions. 2,169,540; Aug. 15.
Sherman, Clayton C., assignor to H. P. Smith Paper Company, Chicago, Ill. Making stretchable paper. 2,169,505; Aug. 15.
Sherman, William G., Chicago, Ill. Protective device. 2,169,438; Aug. 15.
Sherman, William, Jeannette, assignor to Transparent Distributor Cap and Motor Parts Co., Philadelphia, Pa. Transparent distributor cap. 2,169,595; Aug. 15.
Sherwin-Williams Company. (See Holmes, Edward D., assignor.)
Shiflett, John A., assignor of one-third to O. H. Jacobsmeyer and one-third to L. Foval, St. Louis, Mo. Refrigeration system. 2,169,664; Aug. 15.
Shipman, Emanuel F., Philadelphia, Pa. Protective mask. 2,169,745; Aug. 15.
Shoemaker, Bernard H. (See Loane, C. M., and Shoemaker.)
Short, Leslie E. (See Clarke, T. B., and Short.)
Shuart, Arthur C., Evansville, Ind., assignor to Servel, Inc., New York, N. Y. Shelf for refrigerators. 2,169,295; Aug. 15.
Shurts, Englebert, Waukesha, Wis. Milking machine. 2,169,992; Aug. 15.
Sibley, Robert L., Nitro, W. Va., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo. Preservation of rubber. 2,169,618; Aug. 15.
Siemens & Halske Aktiengesellschaft. (See Kimmel, Hermann, assignor.)
Siemens-Schuckertwerke Aktiengesellschaft. (See Janetschke, Erwin, assignor.)
Sillers, Thomas G. A., Milwaukee, and J. H. Michael, West Allis, assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Clamping device. 2,169,481; Aug. 15.
Simmons Company. (See Bayer, Matthew F., assignor.)
Simmons Company. (See Halleran, H. T., and Carlon, assignors.)
Simmons, Walter J., Milwaukee, Wis. Bottle fizzing attachment. 2,169,506; Aug. 15.
Simpson, Jerry H., assignor to The Bahnson Company, Winston-Salem, N. C. Air conditioning apparatus. 2,169,435; Aug. 15.
Singer Manufacturing Company, The. (See Card, Frederic M., assignor.)
Singer Manufacturing Company, The. (See Myers, Walter, assignor.)
Sisson, Vinton E., Winnetka, Ill., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company. Refrigerator car floor rack. 2,169,712; Aug. 15.
Sjogren, Oscar W. (See Mitchell, R. H., and Sjogren.)
Skolaude, Heinrich, Gross-Schonau, Czechoslovakia. Production of pressed articles having a pattern extending right through them from materials in powder form. 2,169,665; Aug. 15.
Slater, Harvey A., and B. R. Tarrant, Butte, Mont. Positive action poppet valve. 2,169,773; Aug. 15.
Smidth, F. L., & Co. (See Borch, Niels S., assignor.)
Smith, Edwin F., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Lubricating apparatus. 2,169,296; Aug. 15.
Smith, Harry E., Short Hills, N. J., assignor to Celluloid Corporation. Workbox. 2,169,297; Aug. 15.
Smith, Harry F., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,169,746; Aug. 15.
Smith, H. P., Paper Company. (See Sherman, Clayton C., assignor.)
Smith, Homer A. (See Lee, C. O., and Smith.)
Smith, John C., assignor to Solar Laboratories, Beaver, Pa. Stenciling machine. 2,169,619; Aug. 15.
Smith, John F., Quincy, Mass., assignor to Compo Shoe Machinery Corporation, New York, N. Y. Apparatus for applying pressure to shoe soles. 2,169,981; Aug. 15.
Smith, Paul D., Beloit, Wis. Direction signal device for automobiles. 2,169,906; Aug. 15.
Smith, Rolf M., assignor to General Motors Corporation, Dayton, Ohio. Electrical lead-in bushing. 2,169,967; Aug. 15.
Smith, William A., Jr., assignor to The Cleveland Rock Drill Company, Cleveland, Ohio. Valve for rock drills. 2,169,887; Aug. 15.
Smith, William B., Washington, D. C. Priming device. 2,169,541; Aug. 15.
Snell, Samuel A., Toledo, Ohio, assignor, by mesne assignments, to The Logan Gear Company. Mechanism control. 2,169,888; Aug. 15.
Societe d'Electrochimie d'Electrometallurgie et des Acieries Electriques d'Ugine. (See Perrin, René, assignor.)
Society of Chemical Industry in Basle. (See Albrecht, Otto, assignor.)
Society of Chemical Industry in Basle. (See Widmer, G., Haller, Landolt, and Schürch, assignors.)
Socony-Vacuum Oil Company. (See Davis, H. S., and Francis, assignors.)
Solar Laboratories. (See Smith, John C., assignor.)
Solomon, Nathan L., Mount Vernon, N. Y. Bow holder. 2,169,596; Aug. 15.
Sommer, Hans-Joachim. (See Wagner, Hans (Johann Konrad), and Sommer.)
Soref, Samuel M., and J. K. Marshall, assignors to Master Lock Company, Milwaukee, Wis. Combination padlock. 2,169,907; Aug. 15.
Sorensen, Ed L., Mare Island, Calif. Safety appliance for painters and the like. 2,169,298; Aug. 15.
Spanel, Abraham N., Rochester, N. Y. Making rubber articles. 2,169,475; Aug. 15.
Spayd, Fred M., Van Wert, Ohio. Cleaning apparatus. 2,169,620; Aug. 15.
Spencer, Howard F. (See Morton, W. A., and Spencer.)
Spengler, Walter J., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Magneto generator. 2,169,597; Aug. 15.
Spengler, Walter J., Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Multiple switch. 2,169,819; Aug. 15.
Spreng- und Tauschgesellschaft m. b. H. (See Böll, K., and Edelhoff, assignors.)
Spreng- und Tauchgesellschaft m. b. H. (See Edelhoff, Arthur, assignor.)
Staatsmijnen in Limburg, et al. (See Pieters, Honore A. J., assignor.)
Standard Car Truck Company. (See Webb, Edwin W., assignors.)
Standard Gas Equipment Corporation. (See O'Dowd, Henry W., assignor.)
Standard Oil Company. (See Loane, C. M., and Shoemaker, assignors.)
Standard Railway Equipment Manufacturing Company. (See Sisson, Vinton E., assignor.)
Standard Stoker Company, The. (See McCurdy, James W., assignor.)

Standard Stoker Company, The. (See Stein, Charles M., assignor.)
Stanley, Charles H., assignor of one-third to T. A. Turner, San Diego, Calif. Stereoscopic device. 2,169,397; Aug. 15.
Stanolind Oil and Gas Company. (See Bays, George S., assignor.)
Stator Corporation. (See Gulick, Russell A., assignor.)
Stator Corporation. (See Whitney, Lyman F., assignor.)
Stearns, Freeman R., assignor to The Carrom Company, Ludington, Mich. Label mounting for stamps or printing blocks and the like. 2,169,507; Aug. 15.
Stein, Charles M., Paris, France, assignor to The Standard Stoker Company, Inc., New York, N. Y. Locomotive stoker. 2,169,534; Aug. 15.
Stein, John A., Richmond Hill, N. N., assignor to American Machine & Foundry Company. Cut-off for cigarette making machines. 2,169,598; Aug. 15.
Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Dispensing cabinet and means for mounting a supply roll therein. 2,169,399; Aug. 15.
Steiner Sales Company. (See Steiner, Grank G., assignor.)
Steinkamper, Bernhard, Karlsruhe, Baden, Germany. Filling and sealing flat bags. 2,169,542; Aug. 15.
Stephenson, Hugh M., Fort Wayne, Ind., assignor to General Electric Company. Phonograph-record changer. 2,169,854; Aug. 15.
Stevenson, Earl P. (See Murray, W. J., and Stevenson.)
Stewart, James S. (See Hutchins, H. A., and Stewart.)
Stewart-Warner Corporation. (See Whitted, John B., assignor.)
Stollsteimer, Frederick J., Upper Darby, assignor to Fleetwood Craftsmen, Inc., Fleetwood, Pa. Ice-cooled refrigerator. 2,169,599; Aug. 15.
Stoner-Mudge, Inc. (See Young, George H., assignor.)
Stough, Samuel H., St. Clair, Ala. Article collection and delivery box. 2,169,855; Aug. 15.
Strandberg, Paul, Stockholm, Sweden, assignors, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,169,820; Aug. 15.
Streun, John A., assignor to Hardwicke-Etter Company, Sherman, Tex. Baling press attachment. 2,169,667; Aug. 15.
Strömberg, Nils G., and G. Widlund, Stockholm, Sweden. Arrangement for feeding paper sheets. 2,169,400; Aug. 15.
Stroud, Charles E., Ford City, assignor to Pittsburgh Plate Glass Company, Allegheney County, Pa. Double window construction. 2,169,713; Aug. 15.
Stuer, Joseph. (See McCann, J. J., and Stuer.)
Sullivan Machinery Company. (See Gartin, Elmer G., assignor.)
Sullivan, Michael J., Springfield, Ohio. Rotary cleaner for sewers and flues. 2,169,543; Aug. 15.
Sun Oil Company. (See Vose, Richard S., assignor.)
Surface Combustion Corporation. (See Kelley, Gilbert A., assignor.)
Sussman, Wormser & Co. (See Carroll, Ellsworth W., assignor.)
Svenska Aktiebolagent Bromsregulator. (See Browall Bert H., assignor.)
Svensson, Karl J., Alsten, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Regulable and power consuming reducing discharge device for centrifugal separators. 2,169,300; Aug. 15.
Swanson, Carl O., Minneapolis, Minn. Necktie. 2,698,856; Aug. 15.
Swart, Leland K., Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical switching and control system. 2,169,821; Aug. 15.
Sweet, James E., T. R. De Peugh, and H. Parish, Washington, D. C. Newspaper assembly. 2,169,932; Aug. 15.
Swift, Willard E., Worcester, assignor to United States Envelope Company, Springfield, Mass. Letter sheet. 2,169,436; Aug. 15.
Sykes, Roger A., Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Wave filter. 2,169,301; Aug. 15.
Sylvester, George R. (See McIntyre, G. H., and Sylvester.)
Tanzi, Mario, Chicago, Ill. Cigarette dispenser. 2,169,572; Aug. 15.
Tarrant, Bernerd R. (See Slater, H. A., and Tarrant.)
Taylor, Charles H., Perivale, Greenford, England. Plugging of walls or the like. 2,169,437; Aug. 15.
Taylor, John R., Natrona, Pa., assignor to Allegheny Steel Company. Method and apparatus for annealing metal charges. 2,169,621; Aug. 15.
Taylor, Reginald, and G. T. Baker, Liverpool, England, assignors to Associated Telephone and Telegraph Company, Chicago, Ill. Telephone system. 2,169,302; Aug. 15.
Taylor, Thomas, Carmel, Calif. Streamlined baseball bat or the like. 2,169,774; Aug. 15.
Teeter, Wilford H. (See Hofferberth, G. F., and Teeter.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Buschbeck, Werner, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Fritz, Karl, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hollmann, Hans E., assignor.)
Telefunken Gesellscraft für Drahtlose Telegraphie m. b. H. (See Paffrath, Georg, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Scharlau, Hans, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Urtel, Rudolf, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Walter, Ludwig, assignor.)
Terrier, Felix, and M. Adam, Paris, France. Duplicating machine. 2,169,933; Aug. 15.
Textile Machine Works. (See Richter, M., and Hornberger, assignors.)
Thebaud, John E. (See Caley, W. J., and Theboud.)
Thermal Research Corporation. (See Conley, Weld E., Jr., assignor.)
Thiokol Corporation. (See Patrick, Joseph C., assignor.)
Thomas, Adolph A., New York, N. Y. Brake mechanism for automotive vehicles. 2,169,668; Aug. 15.
Thomas Machine Manufacturing Company. (Seee Peck, Louis E., assignor.)
Thulin, Clarence. (See Cramton, D. K., and Thulin.)
Titus, Thomas L., Denver, Colo., assignor to The Wyott Manufacturing Company, Cheyenne, Wyo. Liquid dispensing apparatus. 2,169,454; Aug. 15.
Tobias, Fred J., Allentown, Pa., assignor, by mesne assignments, to Filatex Corporation, New York, N. Y. Process and apparatus for producing filaments. 2,169,303; Aug. 15.
Tournier, Marcel C., Paris, France, assignor to Western Electric Company, Incorporated, New York, N. Y. Frequency selective system. 2,169,304; Aug. 15.
Towner, Clifford, Winchester, assignor to United-Carr Fastener Corporation, Cambridge, Mass. Fastening installation. 2,169,968; Aug. 15.
Transparent Distributor Cap and Motor Parts Co. (See Sherman, William, assignor.)
Trautvetter, William G., Paterson, N. J. Harness motion for looms. 2,169,823; Aug. 15.
Treanor, Edward D., Pittsfield, Mass., assigner to General Electric Company. Protective device for liquid immersed electrical apparatus. 2,169,857; Aug. 15.
Treer, Ross B., Lakewood, assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio. Power press. 2,169,747; Aug. 15.
Trobridge, Geoffrey W. (See Murphy, E. A., Trobridge, and Ward.)
Trotter, William. (See Williams, C. F., and Trotter.)
Tubbs, Earl D., New York, N. Y., assignor to Igoe Brothers, Inc., Newark, N. J. Removing burrs from welded rod lengths. 2,169,824; Aug. 15.
Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Low-loss circuits. 2,169,305; Aug. 15.
Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Short-wave receiver. 2,169,306; Aug. 15.
Tunick, Harry, Rye, N. Y., assignor to Radio Corporation of America. Low-loss circuit apparatus. 2,169,307; Aug. 15.
Turchenko, Theodore, Lisle, Ill. Combined vehicle and beehive. 2,169,858; Aug. 15.
Turner, James O. (See Cantrell, T. L., and Turner.)
Turner, Thomas A. (See Stanley, Charles H., assignor.)
Ulrich, Emery G., Lakewood, Ohio. Truck anchor. 2,169,508; Aug. 15.
Union Carbide and Carbon Corporation. (See Yngve, Victor, assignor.)
Union Switch & Signal Company, The. (See Failor, Charles W., assignor.)
Union Swith & Signal Company, The. (See Penrod, Melvin A., assignor.)
Union Underwear Company. (See Goldfarb, Jacob A., assignor.)
United Aircraft Corporation. (See Griswold, Roger W., II, assignor.)
United Aircraft Corporation. (See Wait, W., Jr., and Vought, assignors.)
United American Metals Corporation. (See Jung, Albert H., assignor.)
United-Carr Fastener Corporation. (See O'Callaghan, Jerome J., assignor.)
United-Carr Fastener Corporation. (See Murphy, Howard J., assignor.)
United-Carr Fastener Corporation. (See Towner, Clifford, assignor.)
United Metal Box Co. (See Hammer, Samuel, assignor.)
United Shoe Machinery Corporation. (See Clarke, T. B., and Short, assignors.)
United Shoe Machinery Corporation. (See Gouldbourn, Joseph, assignor.)
United States Envelope Company. (See Swift, Willard E., assignor.)
United States Gypsum Company. (See Youngfelt, T. T., Besal, and Hurd, assignors.)
U. S. Industrial Alcohol Co. (See Balcar, Frederick R., assignor.)
U. S. Industrial Alcohol Co. (See Hildebrandt, F. M., and Erb, assignors.)
Universal Oil Products Company. (See Ipatieff, V., and Pines, assignors.)
Universal Oil Products Company. (See Morrell, Jacque C., assignor.)
Universal Optical Corporation. (See Searles, Wayne S., assignor.)

Urtel, Rudolf, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Black spot correcting means. 2,169,714; Aug. 15.
Usselman, George L., Port Jefferson, N. Y., assignor to Radio Corporation of America. Carrier reduced modulator. 2,169,859; Aug. 15.
Utz, Anthony, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y. Typewriting machine. 2,169,348; Aug. 15.
Van der Horst, Hajo L. (See Holst, G., and Van der Horst.)
Van der Kroon, Henricus A. (See Koch, T., and van der Kroon.)
Van Hammersveld, John J. N. (See Lange, M. E., and Van Hammersveld.)
Van Hamersveld, John J. N., Cleveland Heights, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,169,748; Aug. 15.
Van Hamersveld, John J. N., Cleveland Heights, assignor to The Warner & Swasey Company, Cleveland, Ohio. Machine tool. 2,169,749; Aug. 15.
Vanneman, Daniel R. (See Zerk, O. U., and Vanneman.)
Vaughan Motor Co. (See Weiss, Samuel, assignor.)
Venolia, Joseph, Spadra, Calif. Poultry nest. 2,169,775; Aug. 15.
Vissac, Gustave A., Calgary, Alberta, Canada. Method and apparatus for separating material into constituents of different specific gravity. 2,169,544; Aug. 15.
Vogt, Clarence W., New York, N. Y., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio. Container filler for liquids. 2,169,573; Aug. 15.
Voigt, Paul A., Bellerose, assignor to Johns-Manville Corporation, New York, N. Y. Structural assembly. 2,169,376; Aug. 15.
Von Hoorn, Fred G., Bridgeport, Conn., assignor to General Electric Company. Guard means for electric switches. 2,169,860; Aug. 15.
Von Manteuffel, Gert Z., Berlin-Dahlem, Germany, assignor to Askania-Werke A. G. Device for automatically controlling the fore and aft inclination of aircraft. 2,169,982; Aug. 15.
Von Webern, Guido. (See Casto, L. V., Von Webern, and Hamant.)
Von Webern, Guido, Dayton, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich. Surface decorating method and apparatus. 2,169,439; Aug. 15.
Vorkauf, Heinrich, Berlin, Germany, assignor to La Mont Corporation, New York, N. Y. Forced circulation vapor generator. 2,169,934; Aug. 15.
Vorkauf, Heinrich, Berlin, Germany, assignor to La Mont Corporation, New York, N. Y. Forced circulation steam generator. 2,169,935; Aug. 15.
Vose, Richard S., Ridley Park, assignor to Sun Oil Company, Philadelphia, Pa. Lubricating oil. 2,169,545; Aug. 15.
Vought, Chance M. (See Wait, W., Jr., and Vought.)
Voytilla, Joe E. (See Osterloh, R. H., Pyle, Voytilla, and Ficke.)
Wachs, Adolf, Brooklyn, N. Y. Angle-iron bending machine. 2,169,669; Aug. 15.
Wacker, Frederick G. (See Zimmerman, Herman W., assignor.)
Wacker, Grace J. (See Zimmerman, Herman W., assignor.)
Wagner, Hans (Johann Konrad), and H.-J. Sommer, Oberfranken, Germany. Dividing machine and the like. 2,169,308; Aug. 15.
Wagner, Max, Stuttgart, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Axle arrangement for motor-driven vehicles. 2,169,670; Aug. 15.
Wagner, Melvin, assignor to Thomas M. Royal & Company, Philadelphia, Pa. Bag. 2,169,936; Aug. 15.
Wagner, William L., Sr., Glenshaw, Pa. Apparatus for finishing glassware. 2,169,455; Aug. 15.
Wahlmark, Gunnar A., Rockford, Ill. Fluid motor or pump. 2,169,456; Aug. 15.
Wait, William B., New York, N. Y. Lock for locomotive valve gears. 2,169,401; Aug. 15.
Wait, William, Jr., Garden City, and C. M. Vought, Great Neck, N. Y., assignor, by mesne assignments, to United Aircraft Corporation. Starting mechanism for internal combustion engines. 2,169,309; Aug. 15.
Waldorf, Helmuth W. (See Chase, H., and Waldorf.)
Walker, Robert D., Dallas, assignor of one-half to V. E. Yarbrough, Harris County, Tex. Casing perforator. 2,169,671; Aug. 15.
Wallace, Montie A., Sanderson, Tex. Feeding box. 2,169,350; Aug. 15.
Wallen, Hans, San Jose, Calif. Harp. 2,169,938; Aug. 15.
Walsh, Edward J., St. Louis, Mo. Steering mechanism for automobiles. 2,169,861; Aug. 15.
Walter, Ludwig, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Antenna. 2,169,377; Aug. 15.
Walton, Bruce, Glenbrook, Conn., assignor to The Chas. H. Phillips Chemical Co., New York, N. Y. Producing dry magnesium hydroxide and products thereof. 2,169,983; Aug. 15.
Walz, Valeria W., Perham, Minn. Cooking kettle. 2,169,547; Aug. 15.
Ward, Albert N. (See Murphy, E. A., Trobridge, and Ward.)
Warner & Swasey Company, The. (See De Leeuw, Adolph L., assignor.)
Warner & Swasey Company, The. (See Lange, Max E., assignor.)
Warner & Swasey Company, The. (See Lange, M. E., and Van Hammersveld, assignors.)
Warner & Swasey Company, The. (See Van Hamersveld, John J. N., assignor.)
Warren, Richard F., Stratford, Conn. Making an article. 2,169,825; Aug. 15.
Waterbury, James D., Utica, N. Y. Detachable grain door unit for box freight cars. 2,169,889; Aug. 15.
Waterbury Lock & Specialty Company, The. (See Evans, William E., assignor.)
Webb, Edwin W., assignor to Standard Car Truck Company, Chicago, Ill. Stabilized truck and bolster therefor. 2,169,715; Aug. 15.
Weber Dental Manufacturing Company. (See Monnot, Edward L., assignor.)
Wechsberg, Otto, and H. Werner, assignors to Coppus Engineering Corporation, Worcester, Mass. Blower for annealing furnaces and the like. 2,169,331; Aug. 15.
Welertz, Per A. R., and L. K. Olsson, assignors to Aktiebolaget Cevia, Malmo, Sweden. Auxiliary air controller for internal combustion engines. 2,169,622; Aug. 15.
Weiss, Charles R., and R. W. Parker, Indianapolis, Ind. assignors to Link Belt Company. Belt conveyer and idler. 2,169,623; Aug. 15.
Weiss, Charles R., and R. W. Parker, Indianapolis, Ind., assignors to Link Belt Company. Belt conveyer idler. 2,169,624; Aug. 15.
Weiss, Charles R., and R. W. Parker, Indianapolis, Ind., assignors to Link-Belt Company. Belt conveyer idler. 2,169,625; Aug. 15.
Weiss, Samuel, assignor to Vaughan Motor Co., Inc., Portland, Oreg. Industrial truck. 2,169,440; Aug. 15.
Weiss, Samuel, Brooklyn, N. Y. Tag and means thereon for attaching the same to garments. 2,169,600; Aug. 15.
Weissenborn, Albert, Dessau-in-Anhalt, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y. Perfume. 2,169,984; Aug. 15.
Weller, Burt I., Highland, Ind. Conveyer bucket for elevators and the like. 2,169,750; Aug. 15.
Wells, William F., Minneapolis, Minn. Pencil sharpener. 2,169,908; Aug. 15.
Welsby, Henry V. C. (See Masters, Arthur P., assignor.)
Wempe, Bernhard, Berlin-Charlottenburg, Germany. Producing perforated metal sheets. 2,169,937; Aug. 15.
Wendlandt, Rudolf, Piesteritz, near Halle-on-the-Saale, assignor to Bayerische Stickstoff-Werke Aktien Gesellschaft, Berlin, Germany. Producing highly concentrated nitric acid. 2,169,826; Aug. 15.
Wennmann, William, Brooklyn, N. Y. Safety razor. 2,169,574; Aug. 15.
Werner, Frank J., Porter County, Ind., assignor to Inland Steel Company, Chicago, Ill. Hardening the ends of railway rails. 2,169,776; Aug. 15.
Werner, Helmut. (See Wechsberg, O., and Werner.)
Werner, Otto, College Point, and J. Helenek, Flushing, assignors of one-third to said Werner, one-third to said Helenek, and one-third to J. J. Makofske, Hempstead, N. Y. Trench digger. 2,169,716; Aug. 15.
Wertheimer, Milton, Baltimore, Md. Cigar and mouthpiece therefor. 2,169,310; Aug. 15.
Wertzbeiser, Joseph, Newark, assignor to Hatfield Wire & Cable Co., Hillside, N. J. Mechanism for and process of assembly of a flexible plug cap with its terminals and electrical conductors. 2,169,777; Aug. 15.
West, Claude A., assignor to Gairing Tool Company, Detroit, Mich. Cutting tool assembly. 2,169,482; Aug. 15.
West, Claude J., Philadelphia, Pa., assignor, by mesne assignments, to T. Halkias. Laundry ironer. 2,169,672; Aug. 15.
Westinghouse Electric and Manufacturing Company. (See Leonard, Merrill G., assignor.)
Western Electric Company. (See Schmidt, Harold V., assignor.)
Western Electric Company. (See Tournier, Marcel C., assignor.)
Westinghouse Electric & Manufacturing Company. (See Buchanan, Leslie B. M., assignor.)
Westinghouse Electric & Manufacturing Company. (See Flanders, Warren B., assignor.)
Westinghouse Electric & Manufacturing Company. (See Ponomareff, Alexander I., assignor.)
Westinghouse Electric & Manufacturing Company. (See Smith, Edwin F., assignor.)
White Cap Company. (See Davies, Lynn E., assignor.)
White Castle System, Inc. (See Ingram, E. W., and Ray, assignors.)
White, Paul W., assignor to Parva Products Company, Chicago, Ill. Buckle. 2,169,402; Aug. 15.
Whitehead & Kales Company. (See Judd, Irving H., assignor.)
Whitehead & Kales Company. (See Knapp, L. J., and Neitzel, assignors.)
Whitin Machine Works, The. (See Magrath, George H., assignor.)
Whitney Blake Company. (See Brownstein, Arthur, assignor.)

Whitney, Lyman F., Cambridge, Mass., assignor, by mesne assignments, to Stator Corporation. Aspirator assembly. 2,169,626; Aug. 15.
Whitted, John B., Glencoe, assignor to Stewart-Warner Corporation, Chicago, Ill. Electric fuel pump. 2,169,827; Aug. 15.
Whitted, John B., Glencoe, assignor to Stewart-Warner Corporation, Chicago, Ill. Electric fuel pump. 2,169,862; Aug. 15.
Whittier, Earle O. (See Gould, Stephen P., and Whittier.)
Widell, Magnus E., Cincinnati, Ohio, assignor to American Can Company, New York, N. Y. Can-body maker. 2,169,311; Aug. 15.
Wildermann, Rudolf, New York, N. Y., assignor, by mesne assignments, to The Food Dispenser Company, Hartford, Conn. Dispenser. 2,169,778; Aug. 15.
Widlund, Georg. (See Stromberg, Nils G., assignor.)
Widmer, Gustav, Basel, and R. Haller, A. Landolt, and A. Schürch, Riehen, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland. Fixing dyestuffs on substrata. 2,169,546; Aug. 15.
Wilking, Henry P., Waldwick, N. J. Cap for fill pipes. 2,169,312; Aug. 15.
Willard Storage Battery Company. (See Rolph, Samuel W., assignor.)
Williams, Carl F., San Mateo, and W. Trotter, San Francisco, Calif., assignors to Minerals Separation North American Corporation, New York, N. Y. Concentration of metalliferous ores by flotation. 2,169,313; Aug. 15.
Williams-Kelley Corporation. (See Kelley, John N., assignor.)
Williams, Selden T., Bellerose, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn. Forming rubber-headed valve stems. 2,169,378; Aug. 15.
Williamson, Frederick G., assignor to The American Brake Company, Swissvale, Pa. Brake rigging. 2,169,751; Aug. 15.
Wilmanns, Gustav. (See Ossenbrunner, A., Hagedorn, and Wilmanns.)
Wilson, John H., Wichita Falls, Tex. Transmission interlock. 2,169,780; Aug. 15.
Wilson, Lee, Cleveland, Ohio, assignor to Lee Wilson Sales Corporation. Method and apparatus for annealing strip. 2,169,314; Aug. 15.
Wilson, Lee, Sales Corporation. (See Wilson, Lee, assignor.)
Winter, Herbert, Buchschlag, in Hessia, and W. Fahrenhorst, and E. Schmid, Frankfort-on-the-Main, Germany, assignors to The New Jersey Zinc Company, New York, N. Y. Working zinc alloys. 2,169,441; Aug. 15.
Winthrop Chemical Company. (See Behnisch, R., Klarer, and Mietzsch, assignors.)
Winthrop Chemical Company. (See Weissenborn, Albert, assignor.)
Wolf, Gustav, Gutersloh, Germany. Process and machine for winding cables. 2,169,828; Aug. 15.
Wool, Frank A., San Jose, Calif. Fruit dicing machine. 2,169,509; Aug. 15.
Wool, Frank A., San Jose, Calif. Tension roller device and combination. 2,169,510; Aug. 15.
Worden, Norbert P., and C. F. Foley, assignors to C. M. Hall Lamp Company, Detroit, Mich. Lamp structure. 2,169,627; Aug. 15.
Wright-Aeronautical Corporation. (See Chilton, Roland, assignor.)
Wright Aeronautical Corporation. (See Higbie, Vinton, assignor.)
Wright, Andrew S., Springfield, Mass. Furniture. 2,169,752; Aug. 15.
Wright, Hardin. (See Curry, Arnold Lee, assignor.)
Wuensch, Charles E., Joplin, Mo. Thickener. 2,169,442; Aug. 15.
Wyott Manufacturing Company, The. (See Titus, Thomas L., assignor.)
X-Ray Shoe Fitters, Inc. (See Adrian, Matthew B., assignor.)
Yarbrough, Vera E. (See Walker, Robert D., assignor.)
Yngve, Victor, Lakewood, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Spinning thermoplastic materials. 2,169,315; Aug. 15.
Young, George H., Pittsburgh, Pa., assignor to Stoner-Mudge, Inc. Coating compound. 2,169,717; Aug. 15.
Youngfelt, Theodore T., Hinsdale, J. A. Basal, Chicago, and R. H. Hurd, Hinsdale, assignors to United States Gypsum Company, Chicago, Ill. Board-cutting machine. 2,169,575; Aug. 15.
Zahodiakin, Victor F. (See Niederlehner, Milton J., assignor.)
Zapp, Walter, assignor to Valsta Elektrotechniska Fabrika, Riga, Latvia. Roll film camera. 2,169,548; Aug. 15.
Zeiss Ikon Aktiengesellschaft. (See Frötschner, Hellmuth, assignor.)
Zerk, Oscar U., and D. R. Vanneman, Chicago, Ill.; said Vanneman assignor to said Zerk. Hold-over arrangement for refrigerant system evaporators. 2,169,332; Aug. 15.
Zerk, Oscar U., and D. R. Vanneman, Chicago, Ill.; said Vanneman, assignor to said Zerk. Power-transmitting clutch an doperating means therefor. 2,169,333; Aug. 15.
Zerk, Oscar U., and D. R. Vanneman, Chicago, Ill.; said Vanneman assignor to said Zerk. Power take-off for engine-driven mechanisms. 2,169,334; Aug. 15.
Zimmerman, Herman W., Highland Park, assignor by mesne assignments, to F. G. and G. J. Wacker, Lake Forest, Ill. Torque measuring wrench. 2,169,673; Aug. 15.
Zimmerman, Percy W., and A. E. Hitchcock, assignors to Boyce Thompson Institute for Plant Research, Inc., Yonkers, N. Y. Propagation of plants. 2,169,549; Aug. 15.
Zink, William J., Birmingham, Ala., assignor to Mathews Conveyer Company, Ellwood City, Pa. Telescoping conveyer. 2,169,890; Aug. 15.
Zohn & Co., G. m. b. H. (See Barkholt, Hans, assignor.)
Zwald, Adolph, Portland, Oregon, assignor to the Government of the United States of America, represented by the Secreary of War. Tag line hoist for fish lift gates 2,169,316; Aug. 15.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Glass, Optical. G. W. Morey. Re. 21,175; Aug. 15.
Radio-frequency inductance unit. H. A. Wheeler. Re. 21,176; Aug. 15.

LIST OF DESIGN INVENTIONS

Airplane. J. D. McKellar. 116,206; Aug. 15.
Altar, Virgin shrine. J. De Lisle. 116,133; Aug. 15.
Bag or similar article, Shoulder. M. J. Kruger. 116,166; Aug. 15.
Basket. A. W. Planeta. 116,193–4; Aug. 15.
Bedspread. A. Fassler. 116,183; Aug. 15.
Bedspread. H. A. Lawson. 116,167–8; Aug. 15.
Bedspread. H. A. Lawson. 116,190–91; Aug. 15.
Bedspread. R. Steinweg. 116,195–7; Aug. 15.
Bottle or similar article. J. S. Steelman. 116,173; Aug. 15.
Box, Display. H. S. Scholes. 116,145; Aug. 15.
Box, Starting. T. A. Keen. 116,139; Aug. 15.
Bracelet, or similar article, Watch. B. Axel. 116,155–6; Aug. 15.
Brush, Massage. R. W. Hall. 116,162; Aug. 15.
Burner, Oil. J. A. D'Elia. 116,160; Aug. 15.
Case, Display. H. P. Vaughn. 116,152–3; Aug. 15.
Case, Overnight. H. Kaufmann. 116,165; Aug. 15.
Casket, Burial. J. Baker. 116,131; Aug. 15.
Clock and base combination, Pull wind desk. J. P. Ambrose. 116,130; Aug. 15.
Detector, Coin and slug. W. Patzer and W. A. Tratsch. 116,143; Aug. 15.
Dish or article of similar nature, Glass covered butter. F. S. Barbiers. 116,157; Aug. 15.
Dispenser, Tax token. W. F. Hebner. 116,136; Aug. 15.
Dispensing device. W. A. Gabriel. 116,135; Aug. 15.
Dress. L. G. Rizsak. 116,207; Aug. 15.
Dress. H. Shull. 116,208; Aug. 15.
Dress, Ensemble. L. Glick. 116,210; Aug. 15.
Fabric or similar article, Textile. A. Zavell. 116,199–203; Aug. 15.
Fabric, Textile. A. Katz. 116,204; Aug. 15.
Fabric, Woven textile. J. L. Walther. 116,198; Aug. 15.
Filter body. O. F. von Kohorn zu Kornegg. 116,209; Aug. 15.
Floor covering or the like. C. D. Lehner. 116,205; Aug. 15.
Frame for a display board or the like. J. B. Dey. 116,134; Aug. 15.
Frame or similar article, Picture. A. Savastano. 116,172; Aug. 15.
Frame, Picture. J. J. Janus. 116,164; Aug. 15.
Frankfurter. F. W. Trabold. 116,174; Aug. 15.
Glasses, Sun. G. F. Marciano. 116,141; Aug. 15.
Grille, Accordion. H. Meyers. 116,142; Aug. 15.
Handbag or similar article, Lady's. B. R. Brody. 116,158–9; Aug. 15.
Hood or similar article. L. Fainblatt. 116,182; Aug. 15.
Housing for signal device. L. Rittenhouse. 116,170; Aug. 15.
Locomotive. H. Dreyfuss. 116,180; Aug. 15.
Peeler, Citrus fruit. P. J. Ouellette. 116,192; Aug. 15.
Photographic enlarger. R. Simmon. 116,151; Aug. 15.
Plate, Escutcheon. R. G. Fordyce. 116,184–6; Aug. 15.
Press. J. A. Muller. 116,169; Aug. 15.
Projector or similar article, Icon. A. G. Dannell. 116,132; Aug. 15.
Receptacle, Transparent food. H. V. Sharlitt and P. J. Arnoff. 116,149–50; Aug. 15.
Ring, Finger. A. K. Rodgers. 116,171; Aug. 15.
Saddle, Cycle. H. E. Kalter. 116,137; Aug. 15.
Sadiron or the like. W. E. Gundelfinger. 116,161; Aug. 15.
Scaffold unit. G. W. Frost. 116,187–8; Aug. 15.
Scale, Weighing. W. Watling. 116,177; Aug. 15.
Scarf or similar article. B. F. Goodman. 116,189; Aug. 15.
Seat, Cycle saddle. H. E. Kalter. 116,138; Aug. 15.
Spoon or other article of flatware. J. R. Price. 116,144; Aug. 15.
Spoon or other article of flatware. F. R. Woodward and A. H. Staf. 116,154; Aug. 15.
Spoon or similar article. F. W. Koonz. 116,140; Aug. 15.
Spoon or similar article. M. Schulgasser. 116,146–8; Aug. 15.
Stand, Smoking. C. E. Waltman. 116,175–6; Aug. 15.
Stoker. F. D. Yarick. 116,178; Aug. 15.
Sweater. L. Ellenoff. 116,181; Aug. 15.
Tool, Pocket. W. K. Yates, Jr. 116,179; Aug. 15.
Tray, Paper. G. W. Holt, Jr. 116,163; Aug. 15.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 15TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Accelerator timer control. A. P. Bloxsom. 2,169,216; Aug. 15.
Acetone fermentation process, Butyl. F. M. Hildebrandt and N. M. Erb. 2,169,246; Aug. 15.
Acid amide compounds, Sulphonic. R. Behnisch, J. Klarer, and F. Mietzsch. 2,169,971; Aug. 15.
Acid, Manufacture of phosphatic. J. E. Malowan. 2,169,588–9; Aug. 15.
Acid, Producing highly concentrated nitric. R. Wendlandt. 2,169,826; Aug. 15.
Air conditioner. M. Crandall and M. Sanders. 2,169,942; Aug. 15.
Air conditioning apparatus. J. H. Simpson. 2,169,435; Aug. 15.
Air conditioning system. L. A. Philipp. 2,169,899–900; Aug. 15.
Air controller for internal combustion engines, Auxiliary. P. A. R. Welertz and L. K. Olsson. 2,169,622; Aug. 15.
Air cooling and circulating device for vehicles. D. R. Haynes. 2,169,693; Aug. 15.
Aircraft with rotative sustaining blades. H. F. Pitcairn. 2,169,849; Aug. 15.
Albuminous substances, Hardening. J. Brunken. 2,169,513; Aug. 15.
Alkoxyacetonitriles, Higher. H. A. Bruson and R. F. McCleary. 2,169,578; Aug. 15.
Alkylolamino-methylene compound and making. J. G. Kern. 2,169,736; Aug. 15.
Alloy. A. W. Peterson. 2,169,592; Aug. 15.
Alloys and in particular of ferro-alloys or of inoxidizable steels, Manufacture of. R. Perrin. 2,169,741; Aug. 15.
Alloys, Working zinc. H. Winter, W. Fahrenhorst, and E. Schmid. 2,169,441; Aug. 15.
Amalgamator, Power-operated. C. P. Russell. 2,169,817; Aug. 15.
Amplifier, Low-frequency. C. E. Granqvist. 2,169,837; Aug. 15.
Amusement apparatus. N. Bartlett. 2,169,403; Aug. 15.
Anchor, Truck. E. G. Ulrich. 2,169,508; Aug. 15.
Antenna. L. Walter. 2,169,377; Aug. 15.
Antiskid device for vehicle wheels. T. Hamalainen. 2,169,950; Aug. 15.
Apparatus for applying identifying means. A. J. Freeman. 2,169,413; Aug. 15.
Apparatus for forming shaped small objects. C. Pfanstiehl. 2,169,281; Aug. 15.
Apparatus for multiple stage cementing. O. L. Morrisett. 2,169,568; Aug. 15.
Apparatus for producing artificial respiration. A. C. N. Andersen. 2,169,784; Aug. 15.
Article collection and delivery box. S. H. Stough. 2,169,855; Aug. 15.
Article, Making an. R. F. Warren. 2,169,825; Aug. 15.
Articles having a pattern extending right through them from materials in powder form, Production of pressed. H. Skolaude. 2,169,665; Aug. 15.
Aspirator arrangement. R. A. Gulick. 2,169,640; Aug. 15.
Aspirator assembly. L. F. Whitney. 2,169,626; Aug. 15.
Attachment, Interchangeable. B., I., and S. Darvie. 2,169,461; Aug. 15.
Attachment plug. A. Brownstein. 2,169,219; Aug. 15.
Automobile body, Convertible. J. Falcon. 2,169,340; Aug. 15.
Automobile jack. J. M. De Nault. 2,169,913; Aug. 15.
Automobile lock. V. L. Gilpin. 2,169,796; Aug. 15.
Axle arrangement for motor-driven vehicles. M. Wagner. 2,169,670; Aug. 15.
Bag. M. Wagner. 2,169,936; Aug. 15.
Bags, Filling and sealing flat. B. Steinkemper. 2,169,542; Aug. 15.
Bailer, Well clean-out. J. H. Notley. 2,169,922; Aug. 15.
Banding mechanism. J. A. Neumair. 2,169,591; Aug. 15.
Bat or the like, Streamlined baseball. T. Taylor. 2,169,774; Aug. 15.
Battery, Storage. S. W. Rolph. 2,169,771; Aug. 15.
Beater device. A. Kelley. 2,169,607; Aug. 15.
Bending machine, Angle-iron. A. Wachs. 2,169,669; Aug. 15.
Beverage cooler. A. L. Hann. 2,169,387; Aug. 15.
Binder, Spiral. S. W. Dow. 2,169,943; Aug. 15.
Black spot correcting means. R. Urtel. 2,169,714; Aug. 15.
Blanks, Forming. W. W. Criley. 2,169,894; Aug. 15.
Bleeder, Automatic. L. A. Layne and H. C. Block. 2,169,561; Aug. 15.
Blower apparatus. W. B. Flanders. 2,169,232; Aug. 15.
Blower apparatus. A. I. Ponomareff. 2,169,233–4; Aug. 15.

Blower for annealing furnaces and the like. O. Wechsberg and H. Werner. 2,169,331; Aug. 15.
Board-cutting machine. T. T. Youngfelt, J. A. Besal, and R. H. Hurd. 2,169,575; Aug. 15.
Boiler. J. H. Lawrence. 2,169,843; Aug. 15.
Boiler. H. S. Murphy. 2,169,276; Aug. 15.
Bonding and coating product. J. C. Patrick. 2,169,814; Aug. 15.
Book, Rotating visible frame. E. C. Gast, Jr. 2,169,488; Aug. 15.
Booms, Attachment for. G. J. Clark. 2,169,556; Aug. 15.
Bottle cover. H. L. Keun. 2,169,986; Aug. 15.
Bottle fizzing attachment. W. J. Simmons. 2,169,506; Aug. 15.
Bottle, Vending machine. R. A. Blunt. 2,169,869; Aug. 15.
Bow holder. N. L. Solomon. 2,169,596; Aug. 15.
Bowl, Manicure. F. V. Preve. 2,169,990; Aug. 15.
Box: *See*—
Article collection and delivery box.
Feeding box.
Box. A. and D. Di Domenico. 2,169,382; Aug. 15.
Box-marking machine. J. H. Garrott. 2,169,238; Aug. 15.
Bracket: *See*—
Thermometer bracket.
Bracket for automobile robe rails. A. Claud-Mantle. 2,169,920; Aug. 15.
Brake: *See*—
Truck brake.
Brake. R. B. Cottrell. 2,169,960; Aug. 15.
Brake fluid, Hydraulic. H. R. Fife. 2,169,231; Aug. 15.
Brake rigging. F. G. Williamson. 2,169,751; Aug. 15.
Brake mechanism for automotive vehicles. A. A. Thomas. 2,169,668; Aug. 15.
Brake mechanism for mechanically movable shelves. W. Doggett. 2,169,602; Aug. 15.
Brake system. D. F. Irby. 2,169,646; Aug. 15.
Brake system, Hydraulic. E. T. De Grace. 2,169,462; Aug. 15.
Brakes, Device for regulating the action of. H. Briand. 2,169,519; Aug. 15.
Braking apparatus. B. H. Browall. 2,169,629; Aug. 15.
Brush display rack. K. D. Currie. 2,169,722; Aug. 15.
Buckle. P. W. White. 2,169,402; Aug. 15.
Building frame construction. M. K. Pederson. 2,169,474; Aug. 15.
Building structure and parts therefor. G. F. Kotrbaty. 2,169,253; Aug. 15.
Building structure, Metal. E. W. Ingram and L. W. Ray. 2,169,388; Aug. 15.
Building unit and element. G. F. Kotrbaty. 2,169,255; Aug. 15.
Bulldozer attachment for tractors. H. A. Hutchins and J. S. Stewart. 2,169,606; Aug. 15.
Burner for liquid fuel. J. L. Breese. 2,169,755; Aug. 15.
Burrs from welded rod lengths, Removing. E. D. Tubbs. 2,169,824; Aug. 15.
Bushing. S. W. Long. 2,169,264; Aug. 15.
Bushing, Electrical lead-in. R. M. Smith. 2,169,967; Aug. 15.
Butane, Treatment of. V. Ipatieff and H. Pines. 2,169,494; Aug. 15.
Cabinet: *See*—
Ironing machine cabinet.
Mimi-o-file cabinet.
Cabinet and means for mounting a supply roll therein, Dispensing. F. G. Steiner. 2,169,399; Aug. 15.
Cabinet construction. W. F. Regenhardt. 2,169,769; Aug. 15.
Cable reel lagging. H. V. Schmidt. 2,169,293; Aug. 15.
Cables, Process and machine for winding. G. Wolf. 2,169,828; Aug. 15.
Camera, Motion picture. G. A. del Valle. 2,169,229; Aug. 15.
Camera mount, Aerial. C. S. Robinson. 2,169,432; Aug. 15.
Camera, Photographic. H. Frötschner. 2,169,688; Aug. 15.
Camera, Photographic. J. N. Kelley. 2,169,422; Aug. 15.
Camera, Roll film. W. Zapp. 2,169,548; Aug. 15.
Camera with electric exposure meter built in, Photographic film. Ö. Riszdorfer. 2,169,927; Aug. 15.
Can bodies, Apparatus for coating. A. L. Kronquest. 2,169,805; Aug. 15.
Can bodies, Coating. E. C. Pfeffer, Jr. 2,169,816; Aug. 15.
Can-body maker. M. E. Widell. 2,169,311; Aug. 15.
Can-turning apparatus. W. E. Conley, Jr. 2,169,833; Aug. 15.

Can cleaning device. C. F. Dahlberg and J. J. Munson. 2,169,522; Aug. 15.
Cap: *See*—
Dispensing cap.
Distribution cap.
Cap for automobile tanks, Gas. W. M. McNeely. 2,169,656; Aug. 15.
Cap for fill pipes. H. P. Wilking. 2,169,312; Aug. 15.
Caps, Apparatus for feeding and applying closure. L. E. Davies. 2,169,973; Aug. 15.
Carbureting apparatus. R. F. Ensign. 2,169,487; Aug. 15.
Card, Score. C. E. Morris. 2,169,536; Aug. 15.
Carrier: *See*—
Coal chute carrier.
Case: *See*—
Display case.
Case for wrist watches, Adjustable watch. F. S. Moody. 2,169,738; Aug. 15.
Casein fibers, Treatment of. T. Koch and H. A. van der Kroon. 2,169,955; Aug. 15.
Casing perforator. R. D. Walker. 2,169,671; Aug. 15.
Casting apparatus. A. H. Jung. 2,169,885; Aug. 15.
Cathode, Incandescible. G. Holst and H. L. van der Horst. 2,169,643; Aug. 15.
Cathode-ray signal-generating tube. H. M. Lewis and R. C. Hergenrother. 2,169,840; Aug. 15.
Cell, Dry. P. A. Marsal. 2,169,702; Aug. 15.
Cement mix. E. W. Scripture, Jr. 2,169,980; Aug. 15.
Centrifugal separator. H. O. Lindgren. 2,169,263; Aug. 15.
Chain: *See*—
Ornamental chain.
Chairs, Attachment for rocking. J. H. Arends. 2,169,550; Aug. 15.
Change speed mechanism for machine tools. A. L. De Leeuw. 2,169,761; Aug. 15.
Changeable sign. L. H. Dey. 2,169,409; Aug. 15.
Cherry pitter head. J. Sanchez. 2,169,375; Aug. 15.
Chicken splitter. J. J. Hannan. 2,169,951; Aug. 15.
Cigar and mouthpiece therefor. M. Wertheimer. 2,169,310; Aug. 15.
Cigar mold. F. Hochherr. 2,169,839; Aug. 15.
Cigarette dispenser. M. Tanzi. 2,169,572; Aug. 15.
Cigarettes, Manufacture of. F. F. Ruau and A. Bingham. 2,169,662; Aug. 15.
Circuit: *See*—
Selector release circuit.
Short wave communication circuit.
Circuit apparatus, Low-loss. H. Tunick. 2,169,307; Aug. 15.
Circuit breaker. M. G. Leonard. 2,169,586; Aug. 15.
Circuit breaker, Electromagnetic. M. L. Jeffrey. 2,169,477; Aug. 15.
Circuit for railroads, Track. N. D. Preston. 2,169,286; Aug. 15.
Circuit for railroads, Track. N. D. Preston and O. S. Field. 2,169,285; Aug. 15.
Circuit interrupter, Electric. H. Burmeister. 2,169,871; Aug. 15.
Circuits, Low-loss. H. Tunick. 2,169,305; Aug. 15.
Clamp and drill jig. Y. Sekella. 2,169,328; Aug. 15.
Clamping device. T. G. A. Sillers and J. H. Michael. 2,169,481; Aug. 15.
Cleaner: *See*—
Pipe cleaner.
Cleaner display device, Vacuum. A. L. McCarthy. 2,169,655; Aug. 15.
Cleaner for sewers and flues, Rotary. M. J. Sullivan. 2,169,543; Aug. 15.
Cleaning apparatus. F. M. Spayd. 2,169,620; Aug. 15.
Clock, Electrically operated. T. C. Adams. 2,169,208; Aug. 15.
Clock, Motored. A. G. Jarry. 2,169,647; Aug. 15.
Closure fastener for containers. E. P. Linch. 2,169,448; Aug. 15.
Closure for dispensers. A. F. Loewe. 2,169,779; Aug. 15.
Clothesline tightener. O. A. Huberty. 2,169,530; Aug. 15.
Clutch and operating means therefor, Power-transmitting. O. U. Zerk and D. R. Vanneman. 2,169,333; Aug. 15.
Clutch mechanism for change-speed gears. E. Grote. 2,169,639; Aug. 15.
Coal chute carrier. R. Schenbeck. 2,169,453; Aug. 15.
Coat construction. J. Gulseff. 2,169,491; Aug. 15.
Coating and process of applying and removing, Protective. L. G. Copeman. 2,169,225; Aug. 15.
Coating compound. G. H. Young. 2,169,717; Aug. 15.
Coffee maker. R. S. McNeil. 2,169,880; Aug. 15.
Coffee maker. C. F. Scott. 2,169,852; Aug. 15.
Color-grading system. W. M. Cohn. 2,169,355; Aug. 15.
Combine. A. W. Oehler, R. L. Anderson, and L. A. Paradise. 2,169,472; Aug. 15.
Composition for removing worn lubricant material. C. S. Kimball. 2,169,344; Aug. 15.
Compressor. G. R. Lyon. 2,169,807; Aug. 15.
Compressor, Multistage. P. Maniscalco. 2,169,565; Aug. 15.
Compressor unit. P. Maniscalco. 2,169,571; Aug. 15.
Connection, Electrical. S. M. Del Camp. 2,169,962; Aug. 15.
Container: *See*—
Live bait container.
Container. J. E. Bevington. 2,169,892; Aug. 15.
Container. H. G. Carsley. 2,169,520; Aug. 15.
Container. P. M. Gilfillan. 2,169,638; Aug. 15.
Container and partition therefor. G. A. Copeland. 2,169,318; Aug. 15.
Container closure and dispensing device. E. R. Hacmac. 2,169,239; Aug. 15.
Containers and the product thereof, Closing. H. F. Kniesche. 2,169,804; Aug. 15.
Containers, Method and machine for producing paper. K. Küchler. 2,169,345; Aug. 15.
Control apparatus. W. S. Macdonald. 2,169,977; Aug. 15.
Control apparatus, Mechanical remote. W. H. Parkin. 2,169,813; Aug. 15.
Control in pressure drilling, Back-pressure. G. S. Bays. 2,169,675; Aug. 15.
Controlling means, Machine tool feed. F. Bednarek. 2,169,351; Aug. 15.
Controlling system for railroads, Centralized traffic. W. T. Powell. 2,169,479; Aug. 15.
Conveyer. H. V. Schweitzer. 2,169,772; Aug. 15.
Conveyer and idler, Belt. C. R. Weiss and R. W. Parker. 2,169,623; Aug. 15.
Conveyer bucket for elevators and the like. B. I. Weller. 2,169,750; Aug. 15.
Conveyer, Telescoping. W. J. Zink. 2,169,890; Aug. 15.
Conveying and weighing apparatus, Combined. W. J. Lueckel. 2,169,897; Aug. 15.
Cooler: *See*—
Beverage cooler.
Cooler. E. G. Hoch. 2,169,914; Aug. 15.
Cooling means for continuous casting apparatus. D. K. Crampton and C. Thulin. 2,169,893; Aug. 15.
Copper phosphate, Making. C. F. Booth and H. J. Krase. 2,169,576; Aug. 15.
Cord retriever. D. Hoppenstand. 2,169,734; Aug. 15.
Corn cutting machine, Green. C. E. Kerr. 2,169,963; Aug. 15.
Corrosion, Prevention of. G. A. Kelley. 2,169,584; Aug. 15.
Cotton cleaning machine. H. T. Ahrens. 2,169,782; Aug. 15.
Couch, Studio. M. F. Bayer. 2,169,211; Aug. 15.
Coupling: *See*—
Drill stem coupling.
Coupling. A. L. Curry. 2,169,636; Aug. 15.
Cover: *See*—
Bottle cover.
Thermal cover.
Spring cover.
Cover for bedpans, Protective sanitary. K. M. Englert. 2,169,834; Aug. 15.
Crate, Bottle. W. A. McCutchen. 2,169,450; Aug. 15.
Cultivator, Steering walking. Z. T. Davis. 2,169,912; Aug. 15.
Curler, Hair. W. J. Caley and J. E. Thebaud. 2,169,220; Aug. 15.
Cuspidor construction, Dental. E. L. Monnot. 2,169,324; Aug. 15.
Cut-off for cigarette making machines. J. A. Stein. 2,169,598; Aug. 15.
Cutters, Making rotary gear. R. S. Drummond. 2,169,632; Aug. 15.
Cycle control, Hydraulic. R. A. Miller and W. E. Morris. 2,169,470; Aug. 15.
Cycle fixture. H. L. Kraeft. 2,169,256; Aug. 15.
Damper having single support and cam stabilizers, Dynamic. R. Chilton. 2,169,222; Aug. 15.
Detergent composition. W. G. Beckers. 2,169,829; Aug. 15.
Device for automatically controlling the fore and aft inclination of aircraft. G. Z. von Manteuffel. 2,169,982; Aug. 15.
Device for controlling and planning production, order dispatching, stores, and sales. H. Molz. 2,169,498; Aug. 15.
Device for the conversion of electric currents or potentials by means of periodically actuated switching contacts. E. Janetschke. 2,169,560; Aug. 15.
Dial, Industrial. A. P. Hultgren. 2,169,447; Aug. 15.
Diaphragm, Railway car vestibule. H. H. Hendrickson. 2,169,694; Aug. 15.
Diazo-amino compound and making same. J. G. Kern. 2,169,737; Aug. 15.
Die. A. H. Haberstump and A. J. Jarosik. 2,169,798; Aug. 15.
Dies for printing machines, Signature and other printing. H. T. and W. A. Buck. 2,169,676; Aug. 15.
Digger, Trench. O. Werner and J. Helenek. 2,169,716; Aug. 15.
Discharge apparatus, Demountable. E. D. McArthur and H. E. Rowe. 2,169,879; Aug. 15.
Discharge device for centrifugal separators, Regulable and power consuming reducing. K. J. Svensson. 2,169,300; Aug. 15.
Discharging means for flush tanks. J. L. McBride. 2,169,845; Aug. 15.
Dispenser. R. Wildermann. 2,169,778; Aug. 15.
Dispensing apparatus. H. P. Folker. 2,169,445; Aug. 15.
Dispensing apparatus for filling stations. D. D. Hogarth. 2,169,529; Aug. 15.
Dispensing cap. R. E. Salvesen. 2,169,501; Aug. 15.
Display case. F. D. MacMaster. 2,169,347; Aug. 15.
Display device. H. Chase and H. W. Waldorf. 2,169,679; Aug. 15.
Distributing frame. F. H. Graham. 2,169,727; Aug. 15.
Distributor cap, Transparent. W. Sherman. 2,169,595; Aug. 15.

Dividing machine and the like. H. (J. K.) Wagner and H.-J. Sommer. 2,169,308; Aug. 15.
Door construction, Overhead. C. D. Michael. 2,169,271; Aug. 15.
Door lock. J. R. Elliott and C. C. Hudson. 2,169,944; Aug. 15.
Door lock. A. L. Hansen. 2,169,692; Aug. 15.
Door lock. W. R. Schlage. 2,169,743; Aug. 15.
Door unit for box freight cars, Detachable grain. J. D. Waterbury. 2,169,889; Aug. 15.
Drawer of a vertical type for indexing and classifying. L. Lombardini. 2,169,562; Aug. 15.
Drill: *See*—
Rock drill.
Drill stem coupling. C. Kangas. 2,169,697; Aug. 15.
Drilling apparatus. C. C. Christian. 2,169,223; Aug. 15.
Drilling apparatus. J. W. Pippin. 2,169,283; Aug. 15.
Driving and control apparatus. W. E. Haupt. 2,169,949; Aug. 15.
Drum. R. S. Rheem. 2,169,395; Aug. 15.
Duplicating machine. F. Terrier and M. Adam. 2,169,933; Aug. 15.
Dyestuffs, Dequaternating quaternary ammonium. G. Schwarz. 2,169,434; Aug. 15.
Dyestuffs, Disazo. W. Alt and H. Krzikalla. 2,169,970; Aug. 15.
Dyestuffs on substrata, Fixing. G. Widmer, R. Haller, A. Landolt, and A. Schürch. 2,169,546; Aug. 15.
Earth-boring apparatus, Hydraulic. K. Böll and A. Edelhoff. 2,169,718; Aug. 15.
Electric control and indicating means. B. D. Bedford. 2,169,866; Aug. 15.
Electric distribution, System of. A. E. Anderson and H. Bany. 2,169,863; Aug. 15.
Electric fuel pump. J. B. Whitted. 2,169,862; Aug. 15.
Electric motor. B. F. Schmidt. 2,169,617; Aug. 15.
Electric motor. J. Shebol. 2,169,539; Aug. 15.
Electric systems, Supervision of. H. T. Seeley. 2,169,853; Aug. 15.
Electrical resistance and making same. N. C. Schellenger. 2,169,594; Aug. 15.
Electrical switching and control system. L. K. Swart. 2,169,821; Aug. 15.
Electrode and its suspension. J. L. Légeron. 2,169,563; Aug. 15.
Electrode mount, Adjustable. F. C. Desormeaux. 2,169,723; Aug. 15.
Electromagnet for switching devices. C. I. Baker, E. C. Mueller, Jr., and F. J. Redmond. 2,169,551; Aug. 15.
Emulsifying mill. M. W. Ditto. 2,169,338; Aug. 15.
Engine: *See*—
Internal combustion engine.
Rotary valve engine.
Engine. S. B. Robbins and M. P. Scholl. 2,169,289; Aug. 15.
Engine limiting device, Vehicle speed. N. M. McCullough. 2,169,267; Aug. 15.
Engine of the compression ignition type, Internal combustion. C. W. Chapman. 2,169,381; Aug. 15.
Engines, Process and apparatus for increasing fuel efficiency of internal combustion. T. Marshall, Jr. 2,169,844; Aug. 15.
Esters, Manufacture of. H. S. Davis and A. W. Francis. 2,169,227; Aug. 15.
Esters of aromatic sulphocarboxylic acids with hydroxyalkylamides and making same, Carboxylic acid. O. Albrecht. 2,169,515; Aug. 15.
Esters of cellulose, Organic. G. W. Seymour. 2,169,330; Aug. 15.
Esters of cellulose, Stabilizing organic. G. W. Seymour. 2,169,329; Aug. 15.
Evaporators, Hold-over arrangement for refrigerant system. O. U. Zerk and D. R. Vanneman. 2,169,332; Aug. 15.
Exhaust heater. E. H. Carruthers. 2,169,555; Aug. 15.
Fabric: *See*—
Textile fabric.
Fabrics on circular knitting machines which are adapted to produce interlock fabrics, Manufacture of patterned. F. J. Jarvis. 2,169,801; Aug. 15.
Facing machine. J. M. Kirchberg. 2,169,803; Aug. 15.
Fastener: *See*—
Sash cord fastener.
Fastening installation. C. Towner. 2,169,968; Aug. 15.
Faucet structure, Direct tapping. F. E. Rice. 2,169,393; Aug. 15.
Feeding box. M. A. Wallace. 2,169,350; Aug. 15.
Feeding mechanism. J. S. Richardson. 2,169,394; Aug. 15.
Felt treating machine. J. S. Pecker. 2,169,372; Aug. 15.
Fermentation process. F. M. Hildebrandt and N. M. Erb. 2,169,244; Aug. 15.
Fiber. S. P. Gould and E. O. Whittier. 2,169,690; Aug. 15.
Filaments, Process and apparatus for producing. F. J. Tobias. 2,169,303; Aug. 15.
Filing device. H. I. Jeffers. 2,169,953; Aug. 15.
Filler for liquids, Container. C. W. Vogt. 2,169,573; Aug. 15.
Film, Continuous process of casting thin. R. S. Reynolds. 2,169,288; Aug. 15.
Film drive, Motion picture. E. May. 2,169,566; Aug. 15.
Films, Manufacture of. A. Ossenbrunner, M. Hagedorn, and G. Wilmanns. 2,169,537; Aug. 15.
Films, threads, and the like, Forming. E. F. Izard. 2,169,250; Aug. 15.
Filter: *See*—
Wave filter.
Filter-unit attachment for tobacco pipes. E. H. Lange. 2,169,730; Aug. 15.
Fish about dams, Effecting downstream migration of. H. B. Holmes, H. F. Blood, and M. C. Bell. 2,169,249; Aug. 15.
Fish bait or lure, Propelled and dirigible. J. G. Lancaster. 2,169,698; Aug. 15.
Fish, frogs, and the like, Preserving. F. J. Nevison. 2,169,811; Aug. 15.
Fish, Method of and machine for eviscerating. P. Danielsson. 2,169,791; Aug. 15.
Fishing lure. W. H. Schumann. 2,169,929; Aug. 15.
Fittings, Producing waste-pipe. W. J. Gazey. 2,169,896; Aug. 15.
Flaker. F. R. Murphy. 2,169,275; Aug. 15.
Flap, Slotted deflector. R. W. Griswold, II. 2,169,416; Aug. 15.
Flavoring or alimentary products, Manufacturing. H. E. Otting. 2,169,278; Aug. 15.
Fleshing machine. H. E. Beyster. 2,169,754; Aug. 15.
Floor covering, Luminous or fluorescent. H. E. Millson. 2,169,657; Aug. 15.
Fluid motor. H. F. Parker. 2,169,451; Aug. 15.
Fluid-pressure-producing device. O. H. Fowler. 2,169,524; Aug. 15.
Food preparer. E. F. Martinet. 2,169,323; Aug. 15.
Food products, Apparatus for marking. A. J. Freeman. 2,169,412; Aug. 15.
Footwear. H. S. Davis. 2,169,337; Aug. 15.
Form for footwear, Display. F. W. Estey. 2,169,835; Aug. 15.
Fountain, Ink. E. F. Dudley. 2,169,681; Aug. 15.
Frame: *See*—
Distributing frame.
Structural frame.
Umbrella frame.
Frame for pictures, Transparent mounting. U. Rossi. 2,169,290; Aug. 15.
Frequency inverter, Phase modulation type. C. W. Hansell. 2,169,357; Aug. 15.
Frequency selective system. M. C. Tournier. 2,169,304; Aug. 15.
Fruit dicing machine. F. A. Wool. 2,169,509; Aug. 15.
Fruit juice, Preparing. J. Mills. 2,169,367; Aug. 15.
Fruit, Preparation of glacé. C. Lachman. 2,169,362; Aug. 15.
Fruit-processing apparatus. E. W. Carroll. 2,169,353; Aug. 15.
Fuel pump, Electric. J. B. Whitted. 2,169,827; Aug. 15.
Fur glazing machine. A. Mosca. 2,169,427; Aug. 15.
Furnace: *See*—
Recuperative soaking pit furnace.
Furnace. P. R. Cassidy. 2,169,972; Aug. 15.
Furnace and electrode mechanism therefor, Electric. W. E. Moore. 2,169,808; Aug. 15.
Furnace bottom. T. E. Murray, Jr. 2,169,848; Aug. 15.
Furniture. A. S. Wright. 2,169,752; Aug. 15.
Furniture, Convertible. J. M. Dorton. 2,169,486; Aug. 15.
Galvanometer. H. A. Gill and R. H. Baker. 2,169,476; Aug. 15.
Gambrel. H. Saley. 2,169,928; Aug. 15.
Game. G. O. Matter. 2,169,266; Aug. 15.
Game apparatus. A. P. Masters. 2,169,365; Aug. 15.
Garment. D. B. Cleveland. 2,169,759; Aug. 15.
Garment construction. J. Giuseffi. 2,169,490; Aug. 15.
Garment device. D. J. Beilin. 2,169,552; Aug. 15.
Garment, Foundation. W. Kops. 2,169,585; Aug. 15.
Garment hanger. W. R. Richards. 2,169,431; Aug. 15.
Garment hanger. J. V. Rowan. 2,169,538; Aug. 15.
Garter. H. W. Lakin. 2,169,259; Aug. 15.
Gases containing low boiling aldehydes, Scrubbing. R. H. Osterloh, C. Pyle, J. E. Voytilla, and R. C. Ficke. 2,169,369; Aug. 15.
Gasket. G. T. Balfe. 2,169,516; Aug. 15.
Gate latch. W. G. Moores. 2,169,846; Aug. 15.
Gauge for measurement of gas pressures. S. Palkin and T. C. Chadwick. 2,169,812; Aug. 15.
Gear shifting mechanism for motor vehicles. E. D. Lasley. 2,169,478; Aug. 15.
Generator: *See*—
Magneto generator.
Steam generator.
Vapor generator.
Geneva movement for motion picture projection. E. May. 2,169,567; Aug. 15.
Geophysical exploration, Electrical method of. H. M. Evjen. 2,169,685; Aug. 15.
Glass cutting apparatus, Electrical. I. G. Fowler and J. L. Drake. 2,169,687; Aug. 15.
Glass plates, Apparatus for manipulating. W. Owen. 2,169,739; Aug. 15.
Glass run channel assembly. R. H. Dean. 2,169,792; Aug. 15.
Glass sheets, Apparatus for packing. C. D. Burrell. 2,169,677; Aug. 15.
Glassware, Apparatus for finishing. W. L. Wagner. 2,169,455; Aug. 15.
Glider. H. T. Halleran and R. Carlon. 2,169,728; Aug. 15.
Glove and article holder. N. Fulton. 2,169,633; Aug. 15.

Glove, Swimming. F. L. Anderson. 2,169,939; Aug. 15.
Glycerides, Treating. F. E. Dearborn. 2,169,793; Aug. 15.
Glycerol fermentation process. F. M. Hildebrandt and N. M. Erb. 2,169,245; Aug. 15.
Golf training apparatus. R. Crowley. 2,169,407; Aug. 15.
Grating. L. J. Knapp and H. C. Neitzel. 2,169,649; Aug. 15.
Grinding machine. E. A. Koether. 2,169,252; Aug. 15.
Guard, Grille. J. Hollins. 2,169,695; Aug. 15.
Guard means for electric switches. F. G. von Hoorn. 2,169,860; Aug. 15.
Guide control mechanism. W. C. Nash. 2,169,706; Aug. 15.
Gun, Clay. J. S. Fraser and J. Miles. 2,169,604; Aug. 15.
Gun, Target-optical-projection practice. I. E. Cohn. 2,169,832; Aug. 15.
H_2S and HCN from gases, Removal of. H. A. J. Pieters. 2,169,282; Aug. 15.
Hammer mill. J. A. Erickson. 2,169,684; Aug. 15.
Hanger: *See*—
Garment hanger.
Hardware. P. Iliza. 2,169,985; Aug. 15.
Harp. H. Wallen. 2,169,938; Aug. 15.
Harrow, Disk. R. H. Mitchell and O. W. Sjogren. 2,169,471; Aug. 15.
Harvester, Seed. J. F. Haynes. 2,169,527; Aug. 15.
Head for machinists' scales. J. C. Ayala. 2,169,785; Aug. 15.
Headlight construction. H. C. Jennings. 2,169,531; Aug. 15.
Heater: *See*—
Exhaust heater.
Heater control, Electrically operated. C. Hotchkiss. 2,169,696; Aug. 15.
Heater for gas engines, Vaporized fuel. L. C. Maher. 2,169,564; Aug. 15.
Heating medium, Generating mixed fluid. C. A. and A. R. Dunham, D. N. Crosthwaite, Jr., and P. D. Miller. 2,169,683; Aug. 15.
Heating system. F. H. Cornelius and W. N. Green. 2,169,601; Aug. 15.
Heel-breast covering flaps to shoes, Securing. T. B. Clarke and L. E. Short. 2,169,317; Aug. 15.
Hoe, Hand. C. E. Curtiss. 2,169,557; Aug. 15.
Hoist for fish lift gates, Tag line. A. Zwald. 2,169,316; Aug. 15.
Holder: *See*—
Bow holder.
Glove and article holder.
Tree branch and stick holder.
Hotplate. K. Prade. 2,169,884; Aug. 15.
Hydrocarbons, Recovery of gasoline. D. G. Brandt. 2,169,959; Aug. 15.
Hydrocarbons, Treatment of gaseous paraffin. J. C. Morrell. 2,169,809; Aug. 15.
Ice cream mold. S. Bucher. 2,169,485; Aug. 15.
Idler, Belt conveyer. C. R. Weiss and R. W. Parker. 2,169,624–5; Aug. 15.
Impostive lock. S. Hammer. 2,169,691; Aug. 15.
Indicator: *See*—
Transient change indicator.
Ingots, Casting self-stripping and rapid-cooling steel. S. H. Griffiths. 2,169,797; Aug. 15.
Internal combustion engine. O. Z. Frazier. 2,169,236; Aug. 15.
Internal combustion engine. O. Ljungstrom. 2,169,652; Aug. 15.
Intestine-cleaning mechanism. L. Sevek. 2,169,905; Aug. 15.
Iron, Producing high tensile strength. J. L. Gibney. 2,169,464; Aug. 15.
Ironer, Laundry. C. J. West. 2,169,672; Aug. 15.
Ironing machine cabinet. H. W. Altorfer. 2,169,753; Aug. 15.
Jack: *See*—
Automobile jack.
Jig and reconditioning the aligning edges of lugs of matrices as used in typesetting machines. R. J. Lloyd. 2,169,346; Aug. 15.
Joint for conductors, Sealed. V. E. Roncl. 2,169,570; Aug. 15.
Kettle, Cooking. V. W. Walz. 2,169,547; Aug. 15.
Kiln, Rotary. N. S. Borch. 2,169,512; Aug. 15.
Knitting machine. M. Gottlier. 2,169,836; Aug. 15.
Knitting machine. V. W. Mehnert. 2,169,469; Aug. 15.
Knitting machine, Straight. M. Richter and C. L. Hornberger. 2,169,979; Aug. 15.
Knot-tying device. W. A. Huffstickler. 2,169,800; Aug. 15.
Laminating apparatus. L. Gold. 2,169,975; Aug. 15.
Lamp structure. N. P. Worden and C. F. Foley. 2,169,627; Aug. 15.
Lantern. W. J. Keller. 2,169,735; Aug. 15.
Latch: *See*—
Gate latch.
Latch device, Luggage. J. J. Fanning. 2,169,875; Aug. 15.
Lens strap mounting. W. S. Searles. 2,169,666; Aug. 15.
Lenses, Producing. T. W. Buttner. 2,169,404; Aug. 15.
Letter sheet. W. E. Swift. 2,169,436; Aug. 15.
Lifesaving device for submarines. J. E. Clanton. 2,169,630; Aug. 15.
Link. C. F. Lautz. 2,169,496; Aug. 15.
Liquid coating composition. T. F. Bradley. 2,169,577; Aug. 15.
Liquid dispensing apparatus. W. M. Carroll. 2,169,635; Aug. 15.
Liquid dispensing apparatus. T. L. Titus. 2,169,454; Aug. 15.
Liquid halogenated compositions. F. M. Clark and W. M. Kutz. 2,169,872; Aug. 15.
Live bait container. W. Campbell. 2,169,941; Aug. 15.
Lock: *See*—
Automobile lock.
Door lock.
Impositive lock.
Tie lock.
Lock. R. Marple. 2,169,535; Aug. 15.
Lock for locomotive valve gear. W. B. Walt. 2,169,401; Aug. 15.
Locking device, Automatically reversible freewheel or one-way. R. J. Ifield. 2,169,645; Aug. 15.
Locomotive tender. J. W. McCurdy. 2,169,390; Aug. 15.
Loom stopping device. E. J. Buell and F. D. Martin. 2,169,756; Aug. 15.
Looms, Harness motion for. W. G. Trautzetter. 2,169,823; Aug. 15.
Looms, Tipping motion for Axminster. W. W. Robertson. 2,169,327; Aug. 15.
Lower cementing plug. Z. A. Dyer. 2,169,356; Aug. 15.
Lubricant. A. J. Kraus. 2,169,918; Aug. 15.
Lubricant. C. M. Loane and B. H. Shoemaker. 2,169,700; Aug. 15.
Lubricated valve. F. H. Mueller. 2,169,810; Aug. 15.
Lubricating apparatus. L. C. Rotter. 2,169,291; Aug. 15.
Lubricating apparatus. E. F. Smith. 2,169,296; Aug. 15.
Lubricating arrangement. F. C. Linn. 2,169,878; Aug. 15.
Lubrication. J. Bijur. 2,169,215; Aug. 15.
Machine for and method of applying transparent windows to envelope blanks. L. C. Pearce. 2,169,978; Aug. 15.
Machine for pitching the coils of helical springs. F. O. Holsiter. 2,169,248; Aug. 15.
Machine for treating fats. A. V. Hammer. 2,169,642; Aug. 15.
Machine tool. M. E. Lange. 2,169,765; Aug. 15.
Machine tool. M. E. Lange. 2,169,767; Aug. 15.
Machine tool. M. E. Lange and J. J. N. Van Hamersveld. 2,169,764; Aug. 15.
Machine tool. M. E. Lange and J. J. N. Van Hamersveld. 2,169,766; Aug. 15.
Machine tool. J. J. N. Van Hamersveld. 2,169,748–9; Aug. 15.
Machine-tool transmission and control mechanism. J. B. Armitage. 2,169,484; Aug. 15.
Magnesium hydroxide and products thereof, Producing dry. B. Walton. 2,169,983; Aug. 15.
Magnetic bodies, Making. V. E. Legg. 2,169,732; Aug. 15.
Magneto generator. W. J. Spengler. 2,169,597; Aug. 15.
Manganese sulphate solutions, Purification of. S. M. Shelton. 2,169,540; Aug. 15.
Manikin, Mechanical. J. H. Barrett. 2,169,380; Aug. 15.
Marker, Highway. T. L. Adas. 2,169,674; Aug. 15.
Mask, Protective. E. F. Shipman. 2,169,745; Aug. 15.
Mat, Bath. R. D. Ransom. 2,169,902; Aug. 15.
Material and making the same, Moistureproof. F. M. Meigs. 2,169,366; Aug. 15.
Material into constituents of different specific gravity, Method and apparatus for, separating. G. A. Vissac. 2,169,544; Aug. 15.
Materials, Marking lump. J. A. Cormack. 2,169,226; Aug. 15.
Meat sawing machine. V. G. Biro. 2,169,517; Aug. 15.
Mechanical motion. W. A. Shanley. 2,169,663; Aug. 15.
Mechanism control. S. A. Snell. 2,169,888; Aug. 15.
Metal charges, Method and apparatus for annealing. J. R. Taylor. 2,169,621; Aug. 15.
Metal sheets, Producing perforated. B. Wempe. 2,169,937; Aug. 15.
Metallic object, Small shaped. C. Pfanstiehl. 2,169,966; Aug. 15.
Micrometer leveling device. J. B. Kasten. 2,169,533; Aug. 15.
Microphone, Auscultation. C. Lian and G. Minot. 2,169,806; Aug. 15.
Milking machine. E. Shurts. 2,169,992; Aug. 15.
Mill: *See*—
Emulsifying mill.
Hammer mill.
Mill adjustment, Rolling. T. Sendzimir. 2,169,711; Aug. 15.
Mill for dispersion and mixing. M. W. Ditto. 2,169,339; Aug. 15.
Mimi-o-file cabinet. M. M. Beatty. 2,169,911; Aug. 15.
Mining system. N. D. Levin. 2,169,424; Aug. 15.
Modulator, Carrier reduced. G. L. Usselman. 2,169,859; Aug. 15.
Mold: *See*—
Cigar mold.
Ice cream mold.
Molding. E. F. Oyster. 2,169,279; Aug. 15.
Molds, Manufacture of foundry. J. H. Hall. 2,169,384–6; Aug. 15.
Motor: *See*—
Electric motor.
Fluid motor.
Motor and speed-reduction-train unit, Combined electric. A. B. Poole. 2,169,901; Aug. 15.

Motor control, Method and system of. H. M. Soull. 2,169,294; Aug. 15.
Motor driven let-off. O. V. Payne. 2,169,326; Aug. 15.
Motor or pump, Fluid. G. A. Wahlmark. 2,169,456; Aug. 15.
Motor vehicle. F. C. Best. 2,169,335–6; Aug. 15.
Mount, Adjustable electrode. F. C. Desormeaux. 2,169,723; Aug. 15.
Mounting for stamps or printing blocks and the like, Label. F. R. Stearns. 2,169,507; Aug. 15.
Multicircuit jack. E. F. Norrito. 2,169,988; Aug. 15.
Multiple switch. W. J. Spengler. 2,169,819; Aug. 15.
Nail-driving device. T. A. Roy. 2,169,433; Aug. 15.
Necktie. C. O. Swanson. 2,169,856; Aug. 15.
Nest, Poultry. J. Venolia. 2,169,775; Aug. 15.
Newspaper assembly. J. E. Sweet, T. R. De Peugh, and H. Parish. 2,169,932; Aug. 15.
Nozzle, Gasoline filler hose. H. H. Donovan. 2,169,794; Aug. 15.
Nozzle, Refluent ear. J. J. Nowak. 2,169,923; Aug. 15.
Objects, Forming shaped small. C. Pfanstiehl. 2,169,280; Aug. 15.
Observation device. W. G. Hardt. 2,169,874; Aug. 15.
Oil can, Pressure. C. A. Anderson. 2,169,209; Aug. 15.
Oil compositions, Inhibitors therefor, and manufacturing the same, Lubricating. T. L. Cantrell and J. O. Turner. 2,169,634; Aug. 15.
Oil, Lubricating. R. S. Vose. 2,169,545; Aug. 15.
Olefin oxides from gaseous mixtures, Recovery of. F. R. Balcar. 2,169,210; Aug. 15.
Olefin-sulphur dioxide reaction products. C. S. Marvel and D. S. Frederick. 2,169,363–4; Aug. 15.
Opener, Can. R. C. McRoberts. 2,169,497; Aug. 15.
Ores by flotation, Concentration of metalliferous. C. F. Williams and W. Trotter. 2,169,313; Aug. 15.
Organ, Electronic. W. F. Kannenberg. 2,169,842; Aug. 15.
Orifice device. W. T. Jones and O. E. Hartford. 2,169,359; Aug. 15.
Ornament for wheel hub caps, Stationery. P. Gasco. 2,169,237; Aug. 15.
Ornamental chain, Linked. R. Mantz. 2,169,265; Aug. 15.
Oscillation generation system. W. V. Roberts. 2,169,374; Aug. 15.
Oscillator and frequency multiplier, Magnetron discharge tube. K. Fritz. 2,169,725; Aug. 15.
Oscillograph apparatus. R. H. George. 2,169,726; Aug. 15.
Oxidizing agent and making. W. J. Murray and E. P. Stevenson. 2,169,368; Aug. 15.
Package receiving device. J. A. Keane, F. J. Kittredge, and A. P. Burns. 2,169,322; Aug. 15.
Pad construction, Shoulder. J. Guiseffi. 2,169,489; Aug. 15.
Padlock. W. E. Evans. 2,169,895; Aug. 15.
Padlock, Combination. S. M. Soref and J. K. Marshall. 2,169,907; Aug. 15.
Paper, Making stretchable. C. C. Sherman. 2,169,505; Aug. 15.
Paper padding or tableting press. J. L., A. C., and C. S. Goines. 2,169,341; Aug. 15.
Paper sheets, Arrangement for feeding. N. G. Strömberg. and G. Widlund. 2,169,400; Aug. 15.
Partition structure. G. M. Mills. 2,169,273–4; Aug. 15.
Paver, Retread. W. A. Cost and J. W. Hartley. 2,169,406; Aug. 15.
Peeling machine for potatoes, etc. F. Obermeit. 2,169,707; Aug. 15.
Pen attachment. A. W. Huntress. 2,169,644; Aug. 15.
Perforating machine. R. Holroyd. 2,169,799; Aug. 15.
Perfume. A. Weissenborn. 2,169,984; Aug. 15.
Phenol composition. S. B. Heath and M. O. Keller. 2,169,240; Aug. 15.
Phonograph-record changer. H. M. Stephenson. 2,169,854; Aug. 15.
Photoelectric cell control for scales. H. A. Hadley. 2,169,465; Aug. 15.
Photoelectric system. J. R. Cooney. 2,169,405; Aug. 15.
Photographic development, Equipment for. W. B. Hill and W. B. Melvin. 2,169,417; Aug. 15.
Photographic dyestuff picture. G. Heymer and W. Schultze. 2,169,320; Aug. 15.
Piles, Constructing foundation. R. Bertrand. 2,169,789; Aug. 15.
Pin for artificial teeth and making same. G. M. Lease. 2,169,731; Aug. 15.
Pineapple gathering machine. A. Y. Chong. 2,169,521; Aug. 15.
Pipe: *See*—
Tobacco pipe.
Pipe cleaner. G. A. Bonge. 2,169,940; Aug. 15.
Piston ring. M. J. Niederlehner. 2,169,613; Aug. 15.
Planetary transmission system. G. Fleischel. 2,169,523; Aug. 15.
Plants, Propagation of. P. W. Zimmerman and A. E. Hitchcock. 2,169,549; Aug. 15.
Plastic bodies, Making inlaid cellulose. C. Schuster. 2,169,930; Aug. 15.
Plate for brake hangers, Wear. V. H. Harbert. 2,169,729; Aug. 15.
Platform, Tipping load carrying. J. T. Ratcliffe. 2,169,661; Aug. 15.
Plow, Snow. R. E. Cole. 2,169,224; Aug. 15.
Plug: *See*—
Attachment plug. Spark plug.
Lower cementing plug.
Plug and socket member, Shielded. S. M. Del Camp. 2,169,961; Aug. 15.
Plug cap with its terminals and electrical conductors, Mechanism for and process of assembly of a flexible. J. Wertzheiser. 2,169,777; Aug. 15.
Plug terminals, Aupparatus for forming and attaching. C. J. Keller. 2,169,802; Aug. 15.
Plugging off bottom hole water under pressure. R. E. O'Donnell. 2,169,569; Aug. 15.
Polishing means. F. Hollstin. 2,169,841; Aug. 15.
Poppet valve, Positive action. H. A. Slater and B. R. Tarrant. 2,169,773; Aug. 15.
Porcelain enamel and glass, Apparatus for manufacturing. G. H. McIntyre and G. R. Sylvester. 2,169,611; Aug. 15.
Position-locating apparatus. R. E. Jensen. 2,169,532; Aug. 15.
Power device for earth-drilling machines, Removable. W. T. Caldwell. 2,169,678; Aug. 15.
Power press. R. B. Treer. 2,169,747; Aug. 15.
Power take-off for engine-driven mechanisms. O. U. Zerk and D. R. Vanneman. 2,169,334; Aug. 15.
Press: *See*—
Paper padding or tableting Power press.
press.
Press. L. E. Peck. 2,169,614; Aug. 15.
Press attachment, paling. J. A. Streun. 216,667; Aug. 15.
Printing device. W. B. Smith. 2,169,541; Aug. 15.
Printing and perforating apparatus. A. G. Beal and B. Holmberg. 2,169,891; Aug. 15.
Printing device. I. Gurwick. 2,169,641; Aug. 15.
Printing member. L. V. Casto, G. von Webern, and E. W. Hamant. 2,169,221; Aug. 15.
Propeller puller. R. A. Minderman. 2,179,898; Aug. 15.
Protective device. W. G. Sherman. 2,169,438; Aug. 15.
Protective device for liquid immersed electrical apparatus. E. D. Treanor. 2,169,857; Aug. 15.
Protector: *See*—
Scalp protector.
Puff and making the same, Powder. G. Laitman. 2,169,258; Aug. 15.
Pulp, Producing cellulose. F. Olsen. 2,169,473; Aug. 15.
Pump: *See*—
Electric fuel pump. Fuel pump.
Pump and operating the same, Boiler feeding. R. Hingst. 2,169,418; Aug. 15.
Pumping apparatus. R. C. Mason. 2,169,703; Aug. 15.
Pump operating mechanism, Well. E. W. Patterson. 2,169,815; Aug. 15.
Pumping device. G. T. Humphrey. 2,169,493; Aug. 15.
Rack: *See*—
Brush display rack. Spray rack.
Refrigerator car floor rack.
Radio system, Directive. E. Bruce. 2,169,553; Aug. 15.
Radio transmitting system. E. H. Armstrong. 2,169,212; Aug. 15.
Rails, Hardening the ends of railway. F. J. Werner. 2,169,776; Aug. 15.
Range, Gas. H. W. O'Dowd. 2,169,660; Aug. 15.
Razor blade and holder therefor. J. E. Drew. 2,169,383; Aug. 15.
Razor, Safety. W. Wennmann. 2,169,574; Aug. 15.
Reagent used in simultaneous dyeing and degumming fabrics. H. H. Mosher. 2,169,881; Aug. 15.
Receiver for ultra-short waves. H. E. Hollmann. 2,169,358; Aug. 15.
Receiver, Short-wave. H. Tunick. 2,169,306; Aug. 15.
Receiving apparatus for direction finding. H. Scharlau. 2,169,742; Aug. 15.
Receptacle: *See*—
Sealed receptacle.
Receptacle and forming the same. H C. Aument. 2,169,864; Aug. 15.
Record controlled machine. L. M. Keefe. 2,169,583; Aug. 15.
Rectifier, Grid control. C. C. Herskind. 2,169,876; Aug. 15.
Recuperative soaking pit furnace. W. A. Morton and H. F. Spencer. 2,169,425; Aug. 15.
Reel attachment for hay mowers. J. Bellegante. 2,169,628; Aug. 15.
Refrigerating apparatus. L. B. M. Buchanan. 2,169,554; Aug. 15.
Refrigerating apparatus. G. F. Hofferberth and W. H. Teeter. 2,169,419; Aug. 15.
Refrigerating apparatus. A. A. Kucher. 2,169,763; Aug. 15.
Refrigerating apparatus. A. A. Kucher. 2,169,919; Aug. 15.
Refrigerating apparatus. G. C. Pearce. 2,169,989; Aug. 15.
Refrigerating apparatus. H. F. Smith. 2,169,746; Aug. 15.
Refrigeration. H. K. Bergholm. 2,169,214; Aug. 15.
Refrigeration. C. E. Ploeger. 2,169,284; Aug. 15.
Refrigeration. P. Strandberg. 2,169,820; Aug. 15.
Refrigeration system. J. A. Shifflett. 2,169,664; Aug. 15.
Refrigerator car floor rack. V. E. Sisson. 2,169,712; Aug. 15.

Refrigerator, Ice-cooled. F. J. Stollsteimer. 2,169,599; Aug. 15.
Refrigerator system. K. P. Brace. 2,169,459; Aug. 15.
Refrigerator unit testing. W. B. Griese. 2,169,605; Aug. 15.
Register, Fare. C. E. Hartrick. 2,169,466; Aug. 15.
Relay. R. L. Peek, Jr. 2,169,740; Aug. 15.
Resinous condensation products and preparing same, I. Rosenblum. 2,169,991; Aug. 15.
Ring: *See*—
Piston ring.
Ring for spinning, doubling, or twisting frames. T. K. Powrie. 2,169,709; Aug. 15.
Riveter. G. H. Kessler and W. Meier. 2,169,423; Aug. 15.
Road building machine. R. W. Keeler. 2,169,916; Aug. 15.
Road roller. R. W. Keeler. 2,169,917; Aug. 15.
Roads, Method and apparatus for building. J. H. Mosel. 2,169,987; Aug. 15.
Rock drill. E. G. Gartin. 2,169,637; Aug. 15.
Rodent trap. W. W. Allen. 2,169,783; Aug. 15.
Roof, Flat metal-covered. A. W. Pattiani. 2,169,428; Aug. 15.
Roofing, Permanent. G. M. Larrison. 2,169,651; Aug. 15.
Roost, Poultry. W. F. Niemeyer. 2,169,499; Aug. 15.
Rotary valve engine. R. C. Cross. 2,169,631; Aug. 15.
Rubber articles, Making. A. N. Spanel. 2,169,475; Aug. 15.
Rubber, Preservation of. R. L. Sibley. 2,169,618; Aug. 15.
Rubber structures and making the same, Production of. E. A. Murphy, G. W. Trobridge, and A. N. Ward. 2,169,847; Aug. 15.
Ruffling and stitching machine. F. M. Card. 2,169,579; Aug. 15.
Safety appliance for painters and the like. E. L. Sorensen. 2,169,298; Aug. 15.
Safety device. F. Lambach. 2,169,260; Aug. 15.
Sander. J. H. King. 2,169,954; Aug. 15.
Sash cord fastener. T. F. Keelen. 2,169,915; Aug. 15.
Scale, Proportional mixing. E. D. Holmes. 2,169,952; Aug. 15.
Scalp protector. V. Parmentel. 2,169,925; Aug. 15.
Scissors and shears. J. J. Conway. 2,169,580; Aug. 15.
Scraper. H. C. Frentzel, Jr., and H. C. French. 2,169,946; Aug. 15.
Scraper and tool, Utility. F. M. Giddings. 2,169,414; Aug. 15.
Scraper, carrier, and spreading machine, Combination. W. K. McMillan. 2,169,612; Aug. 15.
Screw and making the same, Socket head. L. E. Broughton. 2,169,460; Aug. 15.
Sealed receptacle. E. H. Fabrice. 2,169,686; Aug. 15.
Seam and method, Finishing. W. Myers. 2,169,590; Aug. 15.
Securing device. J. J. O'Callaghan. 2,169,708; Aug. 15.
Seeds and the growth of seedlings, Apparatus for the germination of. H. H. B. Lund. 2,169,701; Aug. 15.
Selectivity control, Automatic. N. P. Case. 2,169,830; Aug. 15.
Selector release circuit. C. W. Keckler and A. Raynsford. 2,169,389; Aug. 15.
Separator: *See*—
Centrifugal separator. Whizzer separator.
Sewing machine, Press-stitcher. W. Heffron. 2,169,528; Aug. 15.
Sharpener, Pencil. W. F. Wells. 2,169,908; Aug. 15.
Sheet material, Composite. F. G. Okie. 2,169,277; Aug. 15.
Sheet material, Machine for operating upon. J. Gouldbourn. 2,169,319; Aug. 15.
Shelf for refrigerators. A. C. Shuart. 2,169,295; Aug. 15.
Shelving, Adjustable display. N. H. Cederquist. 2,169,721; Aug. 15.
Shield for spark plub cables, Heat. F. G. Gardner. 2,169,689; Aug. 15.
Shoe soles, Apparatus for applying pressure to. J. F. Smith. 2,169,981; Aug. 15.
Short wave communication circuit. W. Buschbeck. 2,169,352; Aug. 15.
Sign: *See*—
Changeable sign.
Signal device. L. Rittenhouse. 2,169,770; Aug. 15.
Signal device for automobiles, Direction. P. D. Smith. 2,169,906; Aug. 15.
Signal frequencies in television systems, Controlling the. I. L. Maguire. 2,169,654; Aug. 15.
Signal-translating apparatus. A. L. Samuel. 2,169,396; Aug. 15.
Signaling apparatus, Multi-frequency. W. N. Krebs and D. W. Seller. 2,169,257; Aug. 15.
Silencer for explosive engines. F. Newton. 2,169,658; Aug. 15.
Slat, Venetian blind. W. D. Clark, Jr. 2,169,873; Aug. 15.
Sleeper for railways, tramways, and the like of cement-asbestos with metallic reinforcements. A. Mazza. 2,169,704; Aug. 15.
Socket, Caster. C. B. and W. H. Noelting. 2,169,882; Aug. 15.
Socket device, Lamp. H. J. Murphy. 2,169,964; Aug. 15.
Socket, Electric. G. B. Benander. 2,169,868; Aug. 15.
Soil, Blasting moory. A. Edelhoff. 2,169,724; Aug. 15.
Soldering. P. W. Noble and A. R. Powell. 2,169,659; Aug. 15.
Solvent from hydrocarbon oils, Recovery of. E. R. Brownscombe. 2,169,218; Aug. 15.
Sound-absorbing article. J. S. Parkinson. 2,169,370; Aug. 15.
Sound recording system. M. Arndt. 2,169,910; Aug. 15.
Sound-reproducing system. S. G. Sears. 2,169,744; Aug. 15.
Spark generating system. L. H. Scott. 2,169,818; Aug. 15.
Spark plug. A. A. Kasarjian. 2,169,421; Aug. 15.
Spectacle temple connection. J. C. Foster. 2,169,235; Aug. 15.
Speed control device, Speedometer vehicle. N. M. McCullough. 2,169,268; Aug. 15.
Speedometer, Recording. A. De Martile. 2,169,230; Aug. 15.
Spike, Drive. W. De Vellier. 2,169,408; Aug. 15.
Spindle, Spinning. F. C. Linn. 2,169,877; Aug. 15.
Spindle, Spinning. G. H. Magrath. 2,169,587; Aug. 15.
Spool-making apparatus. J. A. Johnson. 2,169,251; Aug. 15.
Spray apparatus. G. H. Buzzard and H. A. Roselund. 2,169,514; Aug. 15.
Spray rack. J. G. Capstaff. 2,169,758; Aug. 15.
Spraying machine, Ambulant. C. A. Gallupe. 2,169,948; Aug. 15.
Spring cover. G. W. Crabtree. 2,169,760; Aug. 15.
Spring device. S. J. Becker. 2,169,787; Aug. 15.
Spring device. A. Mouw. 2,169,705 Aug. 15.
Spring mechanism. K. Rabe. 2,169,850; Aug. 15.
Stabilizer mechanism. W. D. Allison. 2,169,969; Aug. 15.
Starching machine. A. R. Allsup. 2,169,457; Aug. 15.
Starting device, Automatic. R. H. Hill and K. R. Blake. 2,169,247; Aug. 15.
Starting mechanism for internal combustion engines. W. Wait, Jr., and C. M. Vought. 2,169,309; Aug. 15.
Steam generator, Forced circulation. H. Vorkauf. 2,169,935; Aug. 15.
Steel clad with stainless steel, Method of and means for producing. T. B. Chace. 2,169,354; Aug. 15.
Steel retainer. J. F. Mock. 2,169,921; Aug. 15.
Steering mechanism for automobiles. E. J. Walsh. 2,169,861; Aug. 15.
Stenciling machine. J. C. Smith. 2,169,619; Aug. 15.
Stereoscopic device. C. H. Stanley. 2,169,397; Aug. 15.
Stiffening for box toes. H. R. Dittmar. 2,169,558; Aug. 15.
Stoker, Locomotive. C. M. Stein. 2,169,534; Aug. 15.
Stop for separable slide fastener tapes, Two-part. M. Kiessling and A. Krieger. 2,169,608; Aug. 15.
Stops for separable slide fastener tapes, Making two-part. M. Kiessling and A. Krieger. 2,169,609; Aug. 15.
Stops, Making slide fastener. M. Kiessling and A. Krieger. 2,169,610; Aug. 15.
Stove, Spirit and like cooking. J. G. Lindmark. 2,169,958; Aug. 15.
Strip, Method and apparatus for annealing. L. Wilson. 2,169,314; Aug. 15.
Structural assembly. P. A. Voigt. 2,169,376; Aug. 15.
Structural frame. J. S. Banta. 2,169,865; Aug. 15.
Structural member and building unit, Composite. G. F. Kotrbaty. 2,169,254; Aug. 15.
Sulphur, Apparatus for purifying. C. O. Lee and H. A. Smith. 2,169,262; Aug. 15.
Sulphur from hydrocarbon gases containing hydrogen sulphide, Elemental. H. Barkholt. 2,169,379; Aug. 15.
Sulphur, Purifying. C. O. Lee and H. A. Smith. 2,169,261; Aug. 15.
Supercharger and cooler arrangement. V. Higbie. 2,169,243; Aug. 15.
Support for map holders, Reading glass. H. Baum. 2,169,786; Aug. 15.
Surface decorating method and apparatus. G. von Webern. 2,169,439; Aug. 15.
Sustaining and propelling members for fluid-sustained craft. J. J. Novak. 2,169,325; Aug. 15.
Switch: *See*—
Multiple switch. Time switch.
Switch and computer control device for fluid pumps. W. H. D. Brouse. 2,169,870; Aug. 15.
Switch mechanism. B. Radtke. 2,169,287; Aug. 15.
Switches, Control of electric. D. L. Beeman. 2,169,867; Aug. 15.
Syringe. M. Payne. 2,169,371; Aug. 15.
Tag and means thereon for attaching the same to garments. S. Weiss. 2,169,600; Aug. 15.
Tampering device, Earth. J. A. McDougall and R. E. McGary. 2,169,468; Aug. 15.
Tank vehicle. F. M. Reid. 2,169,50; Aug. 15.
Tanks or furnaces, Skimming device for glass. T. F. Pearson. 2,169,429; Aug. 15.
Tea and coffee and product thereof, Mode of treating. C. G. Lehr. 2,169,957; Aug. 15.
Teeth, Selecting artificial. A. J. Bush. 2,169,719; Aug. 15.
Telephone system. R. Taylor and G. T. Baker. 2,169,302; Aug. 15.
Television and sound receiver. G. Paffrath. 2,169,883; Aug. 15.

Television receiving apparatus. M. Cawein. 2,169,831; Aug. 15.
Television signal reproducing tube. P. J. Herbst. 2,169,838; Aug. 15.
Tension roller device and combination. F. A. Wool. 2,169,510; Aug. 15.
Terminal and contact member for an electric switch, Combination. R. Popp. 2,169,593; Aug. 15.
Tester, Formation. E. P. Halliburton. 2,169,559; Aug. 15.
Textile and related industries, Producing assistants in the. F. Guenther and K. Saftien. 2,169,976; Aug. 15.
Textile fabric, Production of cellulosic. D. H. Powers and O. B. Hager. 2,169,392; Aug. 15.
Textile machinery. M. C. Miller. 2,169,272; Aug. 15.
Thermal cover. C. T. Bolen. 2,169,511; Aug. 15.
Thermometer bracket. E. F. Schweller. 2,169,904; Aug. 15.
Thermoplastic materials, Spinning. V. Yngve. 2,169,315; Aug. 15.
Thickener. C. E. Wuensch. 2,169,442; Aug. 15.
Thread, Manufacture and use of rubber. K. R. Shaw. 2,169,886; Aug. 15.
Ticket printing or marking and issuing apparatus. K. G. A. Bäckdahl. 2,169,213; Aug. 15.
Tie lock. F. F. Londke. 2,169,653; Aug. 15.
Tile, Glass. N. H. Cederquist. 2,169,720; Aug. 15.
Time indicating device, World. H. A. Leatart. 2,169,956; Aug. 15.
Time switch. K. Öhreneder. 2,169,924; Aug. 15.
Tobacco pipe. W. C. Schwem. 2,169,931; Aug. 15.
Tobacco rod forming method and means. G. Dearsley and J. Shackleton. 2,169,582; Aug. 15.
Toilet sheet. W. Giese. 2,169,415; Aug. 15.
Tool: *See*—
Machine tool. Well tool.
Tube flaring tool. Well bore enlarging tool.
Tool assembly, Cutting. C. A. West. 2,169,482; Aug. 15.
Tool-shaping template. J. A. St. Clair. 2,169,398; Aug. 15.
Tooth brush. M. Dadian. 2,169,581; Aug. 15.
Torque measuring wrench. H. W. Zimmerman. 2,169,673; Aug. 15.
Toy. S. S. Schmidt. 2,169,710; Aug. 15.
Toy, Mechanical. T. R. Duncan. 2,169,682; Aug. 15.
Tractor. E. McCormick. 2,169,449; Aug. 15.
Tractor mounted implement. N. F. Andrews. 2,169,909; Aug. 15.
Traffic control, Grade crossing. J. R. Rinks. 2,169,926; Aug. 15.
Traffic controlling apparatus, Railway. C. W. Fallor. 2,169,603; Aug. 15.
Traffic controlling apparatus, Railway. M. A. Penrod. 2,169,615; Aug. 15.
Traffic controlling system for railroads, Centralized. N. D. Preston. 2,169,480; Aug. 15.
Trailer draft connection. H. G. Shaughnessy. 2,169,299; Aug. 15.
Train, Railway. C. D. Rice. 2,169,616; Aug. 15.
Transient change indicator, Transmission level. H. I. Romnes. 2,169,851; Aug. 15.
Transmission. D. Armstrong-Taylor. 2,169,822; Aug. 15.
Transmission interlock. J. H. Wilson. 2,169,780; Aug. 15.
Transmission line. H. Kimmel. 2,169,360; Aug. 15.
Transmission synchronizer and gear lock-up. A. H. Jessen. 2,169,495; Aug. 15.
Transportation means for refrigerating unit containers. J. C. Hester. 2,169,446; Aug. 15.
Trap: *See*—
Rodent trap.
Trap. F. M. Eslick. 2,169,945; Aug. 15.
Tray and rack, Composite. C. L. Ruhl. 2,169,292; Aug. 15.
Tray, Freezing. D. Hoppenstand. 2,169,733; Aug. 15.
Tree branch and stick holder. P. J. Niedermaier. 2,169,965; Aug. 15.
Trench digging machine. H. J. Brady and P. H. McConnell. 2,169,518; Aug. 15.
Truck and bolster therefor, Stabilized. E. W. Webb. 2,169,715; Aug. 15.
Truck brake, Automatic. W. Y. Abresch. 2,169,781; Aug. 15.
Truck, Bulk material delivery. C. G. Eisenberg, Jr. 2,169,463; Aug. 15.
Truck, Industrial. S. Weiss. 2,169,440; Aug. 15.
Tube: *See*—
Cathode ray signal-regenerating tube. Television signal reproducing tube.
Tube flaring tool. L. C. Cattol. 2,169,790; Aug. 15.
Tumbler, Composite. W. A. Morton. 2,169,426; Aug. 15.
Typographical machines, Assembler slide for. H. R. Freund. 2,169,974; Aug. 15.
Typewriting machine. L. C. Myers. 2,169,349; Aug. 15.
Typewriting machine. A. Utz. 2,169,348; Aug. 15.
Umbrella frame. K. Kortenbach. 2,169,650; Aug. 15.
Undercarriage, Aeroplane. J. P. Burke. 2,169,443; Aug. 15.
Undergarments, Reinforcement for. J. A. Goldfarb. 2,169,492; Aug. 15.
Unicycle, Water. W. E. Nilsson. 2,169,391; Aug. 15.
Valve: *See*—
Lubricated valve. Poppet valve.
Valve. D. D. Goldberg. 2,169,526; Aug. 15.
Valve. A. P. Ricard. 2,169,452; Aug. 15.
Valve and hatch for tanks, Breather. P. B. Drane. 2,169,410; Aug. 15.
Valve for rock drills. W. A. Smith, Jr. 2,169,887; Aug. 15.
Valve manufacture. D. D. Goldberg. 2,169,525; Aug. 15.
Valve mechanism of fuel preheating controls. E. D. Jones. 2,169,321; Aug. 15.
Valve replacement mechanism. F. B. Hale. 2,169,241; Aug. 15.
Valve stems, Forming rubber-headed. S. T. Williams. 2,169,378; Aug. 15.
Vapor generator, Forced circulation. H. Vorkauf. 2,169,934; Aug. 15.
Vapor saving and relief system. P. B. Drane. 2,169,411; Aug. 15.
Varnishes, varnish forming substances, and producing same. S. Kohn. 2,169,361; Aug. 15.
Vegetable infusion, Device for producing. F. Reinholz. 2,169,430; Aug. 15.
Vehicle: *See*—
Motor vehicle. Tank vehicle.
Vehicle and beehive, Combined. T. Turchenko. 2,169,858; Aug. 15.
Vehicle body. H. R. Berndt and R. E. C. Schulz. 2,169,788; Aug. 15.
Vehicle spring suspension. A. F. Hickman. 2,169,242; Aug. 15.
Vehicle suspension. F. Porsche. 2,169,373; Aug. 15.
Vehicle transport, Motor. I. H. Judd. 2,169,648; Aug. 15.
Vessels, Apparatus for making pressure. R. Debor. 2,169,228; Aug. 15.
Vibrato, Device for producing. S. W. Kaye. 2,169,762; Aug. 15.
Wadding, particularly for surgical purposes, Absorbent. H. Freudenberg. 2,169,947; Aug. 15.
Walls or the like, Plugging of. C. H. Taylor. 2,169,437; Aug. 15.
Water and gas layers, Sealing off. F. A. Bent, A. G. Loomis, and H. C. Lawton. 2,169,458; Aug. 15.
Water-cooling apparatus and method. A. F. Evers, Jr. 2,169,795; Aug. 15.
Wave filter. R. A. Sykes. 2,169,301; Aug. 15.
Weft cutting and holding device for looms. J. J. McCann and J. Stuer. 2,169,768; Aug. 15.
Well bore enlarging tool. J. J. Santiago. 2,169,502; Aug. 15.
Well surveying instrument. J. C. Hewitt, Jr., and V. E. Kuster. 2,169,342; Aug. 15.
Well tool. O. A. Brown. 2,169,217; Aug. 15.
Whizzer separator. J. Crites. 2,169,680; Aug. 15.
Window. G. F. Ruehl. 2,169,903; Aug. 15.
Window construction. G. A. E. Kaul. 2,169,343; Aug. 15.
Window construction, Double. C. E. Stroud. 2,169,713; Aug. 15.
Window mounting. C. F. Schlegel. 2,169,503–4; Aug. 15.
Wire-bending machine. G. Jacobs. 2,169,420; Aug. 15.
Wire, Manufacture of. A. Dahlberg. 2,169,444; Aug. 15.
Workbox. H. E. Smith. 2,169,297; Aug. 15.
Work centering and supporting means for milling machines. H. J. Leisner. 2,169,467; Aug. 15.
Wrench: *See*—
Torque measuring wrench.
X-ray inspection equipment and method. M. B. Adrian. 2,169,483; Aug. 15.
Yarn, Device for feeding. R. H. Lawson, I. H. C. Green, and A. N. Cloutier. 2,169,699; Aug. 15.
Yarn, Textile. J. R. Caldwell. 2,169,757; Aug. 15.
Yarns and fabrics, and their manufacture, Cellulose acetate crepe. J. G. McNally. 2,169,269; Aug. 15.
Yarns, Manufacture of cellulose organic acid ester crepe. J. G. McNally. 2,169,270; Aug. 15.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 15, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

1— 46: 2,169,433
2— 8: 2,169,745
37: 2,169,585
76: 2,169,759
154: 2,169,856
225: 2,169,492
268: 2,169,489
2,169,490
2,169,491
4— 50: 2,169,845
112: 2,169,834
185: 2,169,902
263: 2,169,324
5— 18: 2,169,211
6— 1: 2,169,858
8— 19: 2,169,881
29: 2,169,546
9— 1: 2,169,941
21: 2,169,939
10— 10: 2,169,460
154: 2,169,467
11— 1: 2,169,341
12— 36: 2,169,981
125: 2,169,317
136: 2,169,835
13— 9: 2,169,503
14: 2,169,808
15— 14: 2,169,427
28: 2,169,581
104.04: 2,169,940
104.10: 2,169,543
16— 38: 2,169,882
91: 2,169,271
202: 2,169,915
17— 3: 2,169,791
41: 2,169,412
2,169,413
43: 2,169,905
18— 5: 2,169,665
8: 2,169,303
54: 2,169,250
2,169,690
2,169,955
55: 2,169,315
58: 2,169,475
2,169,847
19— 93: 2,169,782
20— 1: 2,169,474
1.12: 2,169,657
12: 2,169,985
27: 2,169,889
49: 2,169,903
52.1: 2,169,343
56.5: 2,169,713
69: 2,169,503
22— 57.2: 2,169,893
94: 2,169,885
189: 2,169,384
2,169,385
2,169,386
193: 2,169,279
212: 2,169,797
23— 3: 2,169,282
5: 2,169,983
162: 2,169,826
165: 2,169,588
2,169,589
224: 2,169,261
225: 2,169,379
232: 2,169,605
264: 2,169,262
24— 55: 2,169,653
79: 2,169,968
85: 2,169,633
123: 2,169,920
130: 2,169,530
200: 2,169,402
205: 2,169,608
213: 2,169,708
243: 2,169,259
28— 1: 2,169,757
28— 1: 2,169,886
6: 2,169,372
29— 1: 2,169,281
2,169,346
46: 2,169,748
64: 2,169,764
76: 2,169,398
84: 2,169,241
2,169,777
85: 2,169,898
105: 2,169,482
148: 2,169,609
2,169,610
2,169,824
156.5: 2,169,894
157.1: 2,169,896
160.5: 2,169,280
2,169,966
160.6: 2,169,731
163.5: 2,169,937
189: 2,169,354
30— 13: 2,169,497
48: 2,169,574
51: 2,169,383
172: 2,169,414
267: 2,16 ,580
31— 61: 2,169,992
32— 71: 2,169,719
33— 19: 2,169,308
46: 2,169,533
126.7: 2,169,952
172: 2,169,229
173: 2,169,785
223: 2,169,342
35— 9: 2,169,266
13: 2,169,655
20: 2,169,811
36— 11.5: 2,169,337
77: 2,169,558
37— 43: 2,169,224
96: 2,169,518
98: 2,169,716
126: 2,169,612
2,169,946
144: 2,169,606
38— 8: 2,169,672
39— 6: 2,169,926
40— 10: 2,169,507
19.5: 2,169,498
20: 2,169,600
32: 2,169,679
96: 2,169,409
129: 2,169,237
159: 2,169,290
41— 26: 2,169,825
35: 2,169,930
43— 43: 2,169,698
48: 2,169,929
75: 2,169,783
83: 2,169,945
45— 2: 2,169,911
28: 2,169,292
46— 22: 2,169,682
119: 2,169,663
130: 2,169,710
47— 16: 2,169,701
58: 2,169,549
48— 180: 2,169,487
49— 48: 2,169,455
50: 2,169,687
53: 2,169,611
56: 2,169,429
82: 2,169,404
51— 31: 2,169,841
74: 2,169,954
100: 2,169,803
112: 2,169,252
53— 1: 2,169,547
3: 2,169,430
2,169,852
2,169,880
55— 83: 2,169,471
56— 15: 2,169,909
20: 2,169,472
126: 2,169,527
222: 2,169,628
57— 65: 2,169,828
120: 2,169,709
140: 2,169,270
157: 2,169,269
58— 38: 2,169,647
43: 2,169,956
50: 2,169,208
88: 2,169,738
59— 91: 2,169,265
60— 13: 2,169,243
45: 2,169,683
52: 2,169,423
54.5: 2,169,524
61— 21: 2,169,249
35: 2,169,724
57: 2,169,789
63: 2,169,468
62— 3: 2,169,919
4: 2,169,554
2,169,795
6: 2,169,899
2,169,900
53: 2,169,914
72: 2,169,599
91.5: 2,169,511
95: 2,169,332
108.5: 2,169,733
116: 2,169,419
117: 2,169,664
119: 2,169,459
119.5: 2,169,214
147: 2,169,387
169: 2,169,820
63— 1: 2,169,461
65— 45: 2,169,779
66: 2,169,426
66— 64: 2,169,459
82: 2,169,272
96: 2,169,836
132: 2,169,699
155: 2,169,979
197: 2,169,801
70— 25: 2,169,907
38: 2,169,895
203: 2,169,860
208: 2,169,944
211: 2,169,438
72— 1: 2,169,255
18: 2,169,720
105: 2,169,437
73— 31: 2,169,812
343: 2,169,904
74— 11: 2,169,334
41: 2,169,815
45: 2,169,493
100: 2,169,822
241: 2,169,706
270: 2,169,523
315: 2,169,645
334: 2,169,478
436: 2,169,566
2,169,567
477: 2,169,780
501: 2,169,813
531: 2,169,888
579: 2,169,496
604: 2,169,222
75— 12: 2,169,464
27: 2,169,741
165: 2,169,592
101: 2,169,632
76— 62: 2,169,328
77— 60: 2,169,228
78— 38: 2,169,711
80— 60: 2,169,441
29: 2,169,749
82— 29: 2,169,761
2,169,765
2,169,766
2,169,767
83— 11: 2,169,684
52: 2,169,390
84— 1.18: 2,169,842
266: 2,169,938
85— 44: 2,169,408
87— 5: 2,169,344
2,169,829
9: 2,169,634
2,169,700
2,169,918
88— 1: 2,169,874
14: 2,169,355
29: 2,169,397
39: 2,169,786
47: 2,169,666
53: 2,169,235
79: 2,169,674
90— 21: 2,169,484
91— 31: 2,169,457
46: 2,169,805
67.5: 2,169,501
68: 2,169,366
2,169,732
2,169,816
70: 2,168,277
2,169,392
92— 13: 2,169,473
93— 39.1: 2,169,345
2,169,864
49: 2,169,311
61: 2,169,978
94— 40: 2,169,406
46: 2,169,987
95— 2: 2,169,320
2,169,422
7: 2,169,513
10: 2,169,927
31: 2,169,548
64: 2,169,688
90.5: 2,169,417
94: 2,169,758
155: 2,169,912
97— 24: 2,169,278
69: 2,169,957
155: 2,169,367
239: 2,169,362
244: 2,169,642
100— 28: 2,169,667
101— 28: 2,169,798
37: 2,169,439
41: 2,169,238
69: 2,169,213
71: 2,169,322
119: 2,169,933
123: 2,169,619
154: 2,169,221
157: 2,169,641
350: 2,169,681
375: 2,169,676
103— 45: 2,169,703
150: 2,169,827
2,169,862
105— 4: 2,169,616
18: 2,169,694
193: 2,169,715
367: 2,169,577
375: 2,169,712
106— 27: 2,169,980
36.1: Re.21,175
40: 2,169,537
107— 19: 2,169,485
108— 6.5: 2,169,651
13: 2,169,428
33: 2,169,376
110— 101: 2,169,534
176: 2,169,425
112— 132: 2,169,579
112— 169: 2,169,528
262: 2,169,590
113— 1: 2,169,251
114— 16.6: 2,169,630
115— 19: 2,169,391
116— 31: 2,169,861
124.1: 2,169,447
119— 25: 2,169,499
45: 2,169,775
120— 93: 2,169,908
114: 2,169,644
121— 7: 2,169,637
19: 2,169,887
45: 2,169,470
117: 2,169,289
119: 2,169,456
142: 2,169,451
162: 2,169,401
187: 2,169,631
122— 11: 2,169,601
187: 2,169,843
225: 2,169,276
235: 2,169,848
330: 2,169,972
411: 2,169,418
2,169,931
2,169,935
123— 32: 2,169,381
65: 2,169,652
73: 2,169,230
90: 2,169,773
119: 2,169,622
2,169,844
148: 2,169,818
169: 2,169,421
2,169,689
179: 2,169,309
126— 39: 2,169,660
128— 29: 2,169,784
156: 2,169,947
221: 2,169,371
240: 2,169,923
129— 5: 2,169,953
16: 2,169,562
28: 2,169,318
34: 2,169,488
130— 9: 2,169,963
131— 9: 2,169,839
39: 2,169,662
43: 2,169,582
52: 2,169,310
61: 2,169,591
193: 2,169,931
206: 2,169,730
132— 31: 2,169,220
36.1: 2,169,925
47: 2,169,596
73: 2,169,990
78.5: 2,169,258
134— 11: 2,169,577
135— 26: 2,169,650
136— 133: 2,169,702
177: 2,169,771
137— 68: 2,169,561
93: 2,169,452
139— 9: 2,169,327
55: 2,169,823
100: 2,169,326
264: 2,169,768
370: 2,169,756
140— 89: 2,169,248
91: 2,169,420
143— 5: 2,169,394
146— 19: 2,169,375
49: 2,169,707
78: 2,169,509
88: 2,169,517
89: 2,169,510
95: 2,169,598
2,169,951
125: 2,169,323
146— 155: 2,169,522
148— 6: 2,169,584
21: 2,169,776
26: 2,169,659
149— 19: 2,169,754
152— 228: 2,169,650
153— 1: 2,169,802
48: 2,169,669
79: 2,169,790
154— 14: 2,169,378
33: 2,169,505
36: 2,169,975
40: 2,169,288
44: 2,169,370
46: 2,169,415
155— 45: 2,169,486
129: 2,169,728
170: 2,169,550
179: 2,169,705
156— 17: 2,169,873
158— 55: 2,169,958
91: 2,169,755
115: 2,169,746
164— 0.5: 2,169,671
0.7: 2,169,217
23: 2,169,319
2,169,614
68: 2,169,575
86: 2,169,891
90: 2,169,799
166— 1: 2,169,356
2,169,559
2,169,568
2,169,569
19: 2,169,922
21: 2,169,458
167— 31: 2,169,240
94: 2,169,984
171— 95: 2,169,476
97: 2,169,863
119: 2,169,866
209: 2,169,597
252: 2,169,617
172— 36: 2,169,901
126: 2,169,539
274: 2,169,294
279: 2,169,989
173— 332: 2,169,961
2,169,962
339: 2,169,964
354: 2,169,868
361: 2,169,219
174— 77: 2,169,570
152: 2,169,967
175— 182: 2,169,685
294: 2,169,853
2,169,867
298: 2,169,481
345: 2,169,551
2,169,740
355: 2,169,267
363: 2,169,876
364: 2,169,560
176— 119: 2,169,723
177— 7: 2,169,256
2,169,770
353: 2,169,479
2,169,480
178— 5.8: 2,169,853
6: 2,169,654
7.2: 2,169,714
2,169,840
44: 2,169,301
2,169,304
2,169,360
69: 2,169,851
179— 1: 2,169,762
1.5: 2,169,357
18: 2,169,302
2,169,389
96: 2,169,988

179— 98: 2,169,727
100.3: 2,169,910
109: 2,169,744
171: 2,169,306
2,169,352
2,169,396
171.5: 2,169,859
175.3: 2,169,821
180— 1: 2,169,449
2,169,916
73: 2,169,670
181— 24: 2,169,806
43: 2,169,658
56: 2,169,359
182— 12: 2,169,541
183— 52: 2,169,435
184— 7: 2,169,215
188— 3: 2,169,668
7: 2,169,508
10: 2,169,519
53: 2,169,960
58: 2,169,751
119: 2,169,781
152: 2,169,646
171: 2,169,602
195: 2,169,629
209: 2,169,729
189— 34: 2,169,254
2,169,273
2,169,274
2,169,388
37: 2,169,253
43: 2,169,649
75: 2,169,865
191— 12.2: 2,169,734
192— .01: 2,169,216
2,169,949
53: 2,169,495
67: 2,169,333
87: 2,169,639
144: 2,169,747
193— 43: 2,169,833
195— 37: 2,169,244
38: 2,169,245
44: 2,169,246
196— 8: 2,169,959
10: 2,169,809
151: 2,169,545
197— 33: 2,169,348
2,169,349
198— 56: 2,169,353

198— 79: 2,169,521
131: 2,169,772
139: 2,169,890
152: 2,169,750
192: 2,169,623
2,169,624
2,169,625
199— 30: 2,169,974
200— 18: 2,169,819
19: 2,169,595
33: 2,169,287
38: 2,169,477
2,169,924
54: 2,169,796
56: 2,169,268
59: 2,169,906
81: 2,169,857
116: 2,169,586
149: 2,169,871
166: 2,169,593
201— 73: 2,169,594
204— 1: 2,169,540
9: 2,169,576
205— 21: 2,169,444
206— 41: 2,169,572
59: 2,169,293
209— 121: 2,169,897
144: 2,169,680
166: 2,169,313
455: 2,169,544
210— 43: 2,169,442
72: 2,169,260
211— 1.6: 2,169,380
65: 2,169,722
128: 2,169,721
149: 2,169,752
153: 2,169,295
2,169,763
214— 75: 2,169,440
85: 2,169,661
87: 2,169,739
215— 1: 2,169,809
46: 2,169,686
63: 2,169,986
78: 2,169,506
94: 2,169,448
216— 62: 2,169,226
217— 19: 2,169,450
219— 37: 2,169,884
220— 39: 2,169,312
44: 2,169,410

220— 66: 2,169,395
76: 2,169,892
85: 2,169,411
221— 14: 2,169,239
47.3: 2,169,291
50: 2,169,209
67: 2,169,778
80: 2,169,514
95: 2,169,870
100: 2,169,529
101: 2,169,454
2,169,635
223— 68: 2,169,552
91: 2,169,431
95: 2,169,538
107: 2,169,297
224— 29: 2,169,453
225— 2: 2,169,445
3: 2,169,393
12: 2,169,620
226— 49: 2,169,542
66: 2,169,794
80: 2,169,973
83: 2,169,804
97: 2,169,573
229— 5.7: 2,169,520
8: 2,169,382
55: 2,169,936
61: 2,169,638
92.7: 2,169,436
230— 95: 2,169,626
2,169,640
116: 2,169,234
120: 2,169,232
2,169,233
180: 2,169,807
183: 2,169,565
2,169,571
209: 2,169,331
232— 41.4: 2,169,855
233— 22: 2,169,263
46: 2,169,300
234— 33: 2,169,230
235— 32: 2,169,466
61.9: 2,169,583
236— 1: 2,169,696
69: 2,169,977
99: 2,169,284
238— 91: 2,169,701
240— 6: 2,169,347
27: 2,169,735

240— 41.5: 2,169,627
48.4: 2,169,531
242— 25: 2,169,351
55.5: 2,169,399
244— 18: 2,169,849
40: 2,169,325
42: 2,169,416
78: 2,169,982
100: 2,169,443
246— 3: 2,169,615
34: 2,169,603
41: 2,169,285
2,169,286
248— 42: 2,169,965
179: 2,169,432
249— 64: 2,169,455
250— 9: 2,169,212
11: 2,169,532
2,169,553
2,169,742
20: 2,169,358
2,169,830
27: 2,169,837
27: 2,169,831
27.5: 2,169,643
2,169,879
33: 2,169,377
36: 2,169,305
2,169,307
2,169,374
2,169,725
40: Re 21,176
2,169,257
41.5: 2,169,405
52: 2,169,483
141: 2,169,720
164: 2,169,838
251— 93: 2,169,525
2,169,810
113: 2,169,526
152: 2,169,321
252— 1: 2,169,872
5: 2,169,231
254— 45: 2,169,446
86: 2,169,913
184: 2,169,316
190: 2,169,556
255— 22: 2,169,678
23: 2,169,264
24: 2,169,675
2,169,718

255— 61: 2,169,223
75: 2,169,283
76: 2,169,502
257— 2: 2,169,555
98: 2,169,275
137: 2,169,693
236: 2,169,564
259— 9: 2,169,338
2,169,339
91: 2,169,817
104: 2,169,607
260— 25: 2,169,361
2,169,991
28: 2,169,814
86: 2,169,717
94: 2,169,363
2,169,364
140: 2,169,737
184: 2,169,970
230: 2,169,329
2,169,330
240: 2,169,434
348: 2,169,210
385: 2,169,368
399: 2,169,793
401: 2,169,515
2,169,971
404: 2,169,976
464: 2,169,578
497: 2,169,227
513: 2,169,736
601: 2,169,369
645: 2,169,218
676: 2,169,494
808: 2,169,618
261— 92: 2,169,942
262— 8: 2,169,917
28: 2,169,424
263— 33: 2,169,512
265— 1: 2,169,673
266— 3: 2,169,314
5: 2,169,621
42: 2,169,604
267— 1: 2,169,787
11: 2,169,969
15: 2,169,373
20: 2,169,336
37: 2,169,760
57: 2,169,335
2,169,850
271— 26: 2,169,400

272— 41: 2,169,403
273— 35: 2,169,365
2,169,407
72: 2,169,774
101.2: 2,169,832
274— 10: 2,169,854
279— 19.5: 2,169,921
280— 5: 2,169,500
33.15: 2,169,636
104: 2,169,242
153.5: 2,169,225
292: 2,169,299
281— 19: 2,169,943
283— 1: 2,169,932
49: 2,169,536
287— 119: 2,169,697
288— 33: 2,169,516
289— 3: 2,169,800
290— 37: 2,169,247
292— 5: 2,169,692
17: 2,169,691
31: 2,169,846
145: 2,169,743
165: 2,169,535
254: 2,169,656
306: 2,169,875
293— 55: 2,169,695
294— 79: 2,169,928
296— 1: 2,169,648
31: 2,169,788
44.5: 2,169,504
2,169,792
117: 2,169,340
298— 7: 2,169,350
2,169,463
299— 29: 2,169,948
303— 84: 2,169,462
304— 16: 2,169,298
306— 16: 2,169,557
308— 145: 2,169,877
151: 2,169,587
160: 2,169,296
187: 2,169,878
309— 45: 2,169,613
312— 26: 2,169,753
111: 2,169,769

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,169,200: 210— 72
2,169,208: 200— 56
2,169,278: 99— 24
2,169,290: 40— 159
2,169,345: 93— 39.1
2,169,368: 260— 385
2,169,373: 267— 15
2,169,404: 49— 82
2,169,409: 40— 96

2,169,416: 244— 42
2,169,441: 80— 60
2,169,446: 254— 45
2,169,455: 49— 48
2,169,465: 249— 64
2,159,492: 2— 225
2,169,497: 30— 13
2,169,519: 188— 10
2,169,543: 15—104.10

2,169,554: 62— 4
2,169,558: 36— 77
2,169,565: 230— 183
2,169,571: 230— 183
2,169,598: 146— 95
2,169,618: 260— 808
2,169,635: 221— 101
2,169,651: 108— 6.5
2,169,657: 20— 1.12

2,169,682: 46— 22
2,169,694: 105— 18
2,169,728: 155— 129
2,169,730: 131— 206
2,169,736: 260— 513
2,169,764: 29— 64
2,169,796: 200— 54
2,169,799: 164— 90
2,169,811: 35— 20

2,169,840 178— 7.2
2,169,854: 274— 10
2,169,858: 6— 1
2,169,859: 179—171.5
2,169,866: 29—157.1
2,169,919: 62— 3
2,169,933: 101— 110
2,169,945: 43— 83
2,169,954: 51— 74

2,169,957: 99— 69
2,169,966: 29—100.5
2,169,968: 24— 79
2,169,976: 260— 404
2,169,979: 66— 155
2,169,983: 23— 5

U. S. GOVERNMENT PRINTING OFFICE 1939

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Abercrombie & Fitch Company, New York, N. Y. Watches. Serial No. 419,063; Aug. 22. Class 27.

Acorn Glove Company, Inc., Palm, Pa. Fabric work gloves. Serial No. 420,039; Aug. 22. Class 39.

Aerolene Sales Co. (See Swartz, Roy E.)

Alabama Appliance Company, Inc., doing business as Alabama Manufacturing Company, Birmingham, Ala. Electric churn. Serial No. 419,410; Aug. 22. Class 23.

Alabama Insecticide Co., Gadsden, Ala. Insecticides. Serial No. 418,179; Aug. 22. Class 6.

Aladdin Industries Incorporated, Alexandria, Ind., and Chicago, Ill. Vacuum bottles and heat insulated receptacles. Serial No. 421,628; Aug. 22. Class 2.

Alfocorn Milling Company, East St. Louis, Ill. Feeds. Serial No. 420,355; Aug. 22. Class 46.

Alumileaf Company, Los Angeles, Calif. Stabilizer for aluminum paste, powder, or paint. Serial No. 420,709; Aug. 22. Class 16.

American Extract Company, Port Allegany, Pa. Solution used in the treatment of hides. Serial No. 415,027; Aug. 22. Class 6.

American Food Products Co. (See Besso, Alec.)

American Handkerchief Co., Inc., New York, N. Y. Handkerchiefs. Serial No. 415,490; Aug. 22. Class 39.

American Machine and Metals, Inc., New York, N. Y. Permanent wave machines, electric hair dryers, etc. Serial No. 421,501; Aug. 22. Class 44.

Amick, Walter, Seattle, Wash. Ointments for the skin. Serial No. 418,802; Aug. 22. Class 6.

Beacon Manufacturing Company, Swannanoa, N. C. Blankets. Serial No. 421,121; Aug. 22. Class 42.

Beam, James B., Distilling Co., Incorporated, Clermont, Ky. Whiskey. Serial No. 420,661; Aug. 22. Class 49.

Beaumart Co., New York, N. Y. Piece goods. Serial No. 420,747; Aug. 22. Class 42.

Beker & Friedman Shoe Co., Inc., Brooklyn, N. Y. Shoes. Serial No. 419,605; Aug. 22. Class 39.

Bell, Cecil L., doing business as Elkhart Pharmacal Company, Elkhart, Ind. Proprietary medicines. Serial No. 419,606; Aug. 22. Class 6.

Berst-Forster-Dixfield Company, Dixfield, Maine, and New York, N. Y. Clothespins. Serial No. 421,446; Aug. 22. Class 24.

Berst-Forster-Dixfield Company, Dixfield, Maine, and New York, N. Y. Toothpicks and wood applicators. Serial No. 421,448; Aug. 22. Class 44.

Besso, Alec, doing business as American Food Products Co., New York, N. Y. Preparation for making a food beverage. Serial No. 418,866; Aug. 22. Class 46.

Bilbara Publishing Co., Inc., New York, N. Y. Periodical. Serial No. 420,275; Aug. 22. Class 38.

Biltmore Hotel, The. (See Long, Baron.)

Bolux Laboratories. (See Knorr, Charles H.)

Booth, W. H., & Company, Inc., Santa Ana, Calif. Whole dried chili pods, whole dried chili peppers, ground paprika, etc. Serial No. 413,331; Aug. 22. Class 46.

Brillo Manufacturing Company, Inc., New York, N. Y. Soaps, cleaning, scouring, and polishing wads, pads, rolls, and cloths of abradant nature. Serial No. 418,812; Aug. 22. Class 4.

Brunswig Drug Co., Los Angeles, Calif. Whiskey. Serial No. 420,988; Aug. 22. Class 49.

Callaway Mills, LaGrange, Ga. Textile bath rugs, mats, and seat covers. Serial No. 421,178; Aug. 22. Class 42.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Electrical food warmers. Serial No. 410,685; Aug. 22. Class 21.

Chicago Electrical News, Inc., Chicago, Ill. Publication. Serial No. 420,400; Aug. 22. Class 38.

Chicago Mail Order Company, Chicago, Ill. Dresses and suits. Serial No. 420,513; Aug. 22. Class 39.

Chicago Musical Instrument Company, Chicago, Ill. Band instruments and wood-wind instruments. Serial No. 420,165; Aug. 22. Class 36.

Chicago Tribune-New York News Syndicate, Inc., New York, N. Y. Series of cartoons. Serial No. 420,450; Aug. 22. Class 38.

Chicagrow Corporation, The, Chicago, Ill. Fertilizer. Serial No. 420,164; Aug. 22. Class 10.

Childs, Margia K., doing business as The Marja Brassiere Company, Jacksonville, Tex. Brassières. Serial No. 411,520; Aug. 22. Class 39.

Circulators & Devices Mfg. Corp., New York, N. Y. Electrical air circulatory fans. Serial No. 411,854; Aug. 22. Class 21.

Cold Spring Granite Company, Cold Spring, Minn. Building stone and cut granite. Serial No. 401,337; Aug. 22. Class 12.

Colgate-Palmolive-Peet Company, Jersey City, N. J. Liquid dentifrice. Serial No. 421,452; Aug. 22. Class 6.

Collins and Aikman Corporation, Philadelphia, Pa., and New York, N. Y. Cotton pile fabrics in the piece. Serial No. 421,180; Aug. 22. Class 42.

Columbia Products Corporation, New York, N. Y. Powder puffs. Serial No. 403,074; Aug. 22. Class 29.

Continental Can Company, Inc., New York, N. Y. Crown caps. Serial No. 419,342; Aug. 22. Class 50.

Continental Chemical and Color Co. (See Richards, John R.)

Cornell, Paul L., doing business as The Road Ahead Publishing Co., Washington, Conn. Magazine. Serial No. 416,713; Aug. 22. Class 38.

Coly, Inc., New York, N. Y. Display stands. Serial Nos. 420,898–901; Aug. 22. Class 32.

Delor Laboratories, Louisville, Ky. Cough preparation. Serial No. 412,047; Aug. 22. Class 6.

Dif Corporation, Garwood, N. J. Razor blades. Serial No. 407,749; Aug. 22. Class 23.

Doho Chemical Corporation, The, New York, N. Y. Osmotherapeutic treatment of ear diseases—ear drops. Serial No. 420,575; Aug. 22. Class 6.

Dols Volatalise Flannel, Limited, Huddersfield and London, England. Medicated flannel. Serial No. 419,184; Aug. 22. Class 6.

Drewrys Dry Ginger Ale U. S. A., Inc., Detroit, Mich. Beverages. Serial No. 414,916; Aug. 22. Class 45.

Driyness, Franklin J., doing business as Franklin Chemical Co., Rochester, N. Y. Alkalin powdered cleaner and cleanser. Serial No. 419,957; Aug. 22. Class 4.

Dunberg, David W., New York, N. Y. Miniature refreshment bars. Serial No. 419,861; Aug. 22. Class 32.

Du Pont, E. I., de Nemours and Company, Wilmington, Del. Hand mirrors. Serial No. 421,228; Aug. 22. Class 32.

Elco Manufacturing Co., New York, N. Y. Wallets, key-cases, coin purses, etc. Serial No. 419,960; Aug. 22. Class 3.

Elkhart Pharmacal Company. (See Bell, Cecil L.)

Ellis Laboratories, Inc., Montclair, N. J. Fertilizer. Serial No. 419,058; Aug. 22. Class 10.

Fair, The, Chicago, Ill. Stationery. Serial No. 420,222; Aug. 22. Class 37.

Farm Journal, Inc., Philadelphia, Pa. Publication. Serial No. 420,495; Aug. 22. Class 38.

Felix, Adell, New York, N. Y. Beauty preparations. Serial No. 421,032; Aug. 22. Class 6.

Fels & Company, Philadelphia, Pa. Soap chips. Serial No. 420,365; Aug. 22. Class 4.

Finker, Irving, Inc., New York, N. Y. Women's coats. Serial No. 420,522; Aug. 22. Class 39.

Fisher Flouring Mills Company, West Waterway, Harbor Island, Seattle, Wash. Prepared flour, wheat flour, whole wheat flour, etc. Serial No. 418,632; Aug. 22. Class 46.

Fisher Flouring Mills Company, Harbor Island, Seattle, Wash. Wheat flour. Serial Nos. 420,627–33; Aug. 22. Class 46.

Flip-Top, Ltd., New York, N. Y. Shoe bags. Serial No. 403,124; Aug. 22. Class 2.

Forstmann Woolen Co., Passaic, N. J. Woolen piece goods. Serial No. 419,017; Aug. 22. Class 42.

Foster Brothers Manufacturing Company, Utica, N. Y. Sofa beds and studio couches. Serial No. 421,274; Aug. 22. Class 32.

Fox, G., & Co. Inc., Hartford, Conn. Men's and boys' clothing. Serial No. 408,095; Aug. 22. Class 39.

Franklin Chemical Co. (See Driyness, Franklin J.)

Fraser Manufacturing Co. Inc., New York, N. Y. Covered wire for obtaining body and firmness in hats, bags, and the like. Serial No. 419,864; Aug. 22. Class 40.

Frosst, Charles E., & Company, Montreal, Quebec, Canada. Therapeutic tonic and medicinal food. Serial No. 417,275; Aug. 22. Class 6.

Gardner Machine Company, South Beloit, Ill. Abrasive wheels and abrasive disks. Serial No. 404,211; Aug. 22. Class 4.

General Mills, Inc., Minneapolis, Minn. Feed. Serial No. 420,578; Aug. 22. Class 46.

General Tire & Rubber Company, The, Akron, Ohio. Automobile tires and tubes. Serial No. 421,514; Aug. 22. Class 35.

Gimbel Brothers, Inc., New York, N. Y. Boys', infants', tots', and children's apparel. Serial No. 418,102; Aug. 22. Class 39.

Givol Chemical Co., Chicago, Ill. Stomach antacid preparation and a digestion aid. Serial No. 418,923; Aug. 22. Class 6.

Gluck, Jeannette, New York, N. Y. Preparation for prolonging the life of silk hosiery and the like. Serial No. 420,610; Aug. 22. Class 6.

Gordon & Ferguson Company, St. Paul, Minn. Jackets, coats, vests, etc. Serial Nos. 415,942–4; Aug. 22. Class 39.

Grand Rapids Store Equipment Co., Grand Rapids, Mich. Display cases. Serial No. 419,663; Aug. 22. Class 32.

Grand Rapids Varnish Corporation, Grand Rapids, Mich. Material which, when sprayed, produces a coating of unusual texture and irregularity. Serial No. 419,375; Aug. 22. Class 16.

Gro-Lux, Inc., Minneapolis, Minn. Container-injector to dissolve fertilizer and apply it to the earth. Serial No. 417,614; Aug. 22. Class 23.

Guerlain Perfumery Corporation of Delaware, Wilmington, Del., and New York, N. Y. Face powder. Serial No. 419,802; Aug. 22. Class 6.

Hamilton Watch Company, Lancaster, Pa. Bracelets, bands, chains, etc. Serial No. 395,037; Aug. 22. Class 28.

Hartmann Trunk Company, Racine, Wis. Suitcases and wardrobe hand luggage. Serial No. 420,859; Aug. 22. Class 3.

Hasco Products Limited, New Westminster, British Columbia, Canada. Marine glue. Serial No. 418,148; Aug. 22. Class 5.

Hedge, Marvin K., Portland, Oreg. Fishing tackle and accessories. Serial No. 418,408; Aug. 22. Class 22.

Here-Is Laboratory, Kansas City, Mo. Hand lotion. Serial No. 418,639; Aug. 22. Class 6.

Herz Laboratories, Inc., New York, N. Y. Medicinal tablets. Serial No. 418,833; Aug. 22. Class 6.

Hill & McLaughlin, Inc., Minneapolis, Minn. Razor blades. Serial No. 419,513; Aug. 22. Class 23.

Hygienic Tube & Container Corporation, Newark, N. J. Containers, cans, vials, etc. Serial No. 418,244; Aug. 22. Class 2.

Industrial Sugars Corporation, Chicago, Ill. Liquid sugar. Serial No. 419,148; Aug. 22. Class 46.

International Latex Corporation, Dover, Del. Baby pants, bathing caps, swim suits, etc. Serial No. 417,372; Aug. 22. Class 39.

Janik, Stephen, Niagara Falls, N. Y. Beverages, and sirups and extracts for making the same. Serial No. 421,187; Aug. 22. Class 45.

Joyce, Theodore C., Everett, Mass. Rubbing liniment. Serial No. 409,529; Aug. 22. Class 6.

Kane-weill Inc., New York, N. Y. Fabrics in the piece. Serial No. 420,719; Aug. 22. Class 42.

Karlsruher Parfümerie- & Toilettenseifen-Fabrik, F. Wolff & Sohn, Gesellschaft mit beschränkter Haftung, Karlsruhe, Germany. Hair tonic. Serial No. 420,458; Aug. 22. Class 6.

Keasbey & Mattison Company, Ambler, Pa. Asbestos cement conduit and duct and asbestos cement couplings and fittings. Serial No. 420,865; Aug. 22. Class 21.

Keeney, John H., doing business as J. H. Keeney & Company, Chicago, Ill. Game boards. Serial No. 420,533; Aug. 22. Class 22.

Kemp, E. F., Inc., Somerville, Mass. Confection. Serial No. 418,837; Aug. 22. Class 46.

Knorr, Charles H., doing business as Bolux Laboratories, St. Louis, Mo. Acid solution for removing stains from toilet bowls. Serial No. 410,996; Aug. 22. Class 6.

Knott, Wm. T., Company, Inc., New York, N. Y. Sanitary napkins, manicure sets, and absorbent cotton. Serial No. 417,339; Aug. 22. Class 44.

La Vivante Foundations Incorporated, New York, N. Y. Corsets, brassières, and foundations. Serial No. 418,878; Aug. 22. Class 39.

Lelong, Lucien, Inc., Chicago, Ill. Perfume and cologne. Serial No. 419,382; Aug. 22. Class 6.

Lewis, George, & Sons Co., Chicago, Ill. Lingerie. Serial No. 420,328; Aug. 22. Class 39.

Linok Herbal Products. (See Manzoni, Lino.)

Little Gem Mfg. Co. (See Smith, Willa E.)

Loewer's, V., Gambrinus Brewery Co., New York, N. Y. Beer and ale. Serial No. 421,189; Aug. 22. Class 48.

Long, Baron, doing business as The Biltmore Hotel, Los Angeles, Calif. Whiskey. Serial No. 414,919; Aug. 22. Class 49.

Loose-Wiles Biscuit Company, Long Island City, N. Y. Biscuits, cookies, cakes, and crackers. Serial No. 420,282; Aug. 22. Class 46.

Lutheran Home Journal, Minneapolis, Minn. Publication. Serial No. 420,537; Aug. 22. Class 38.

Machlanburg-Duncan Company, Oklahoma City, Okla. Metal moulding strips. Serial No. 420,378; Aug. 22. Class 14.

Magic Chemical Company, Salt Lake City, Utah. Wax polishes, furniture polishes, combined cleaner and polish for automobiles, etc. Serial No. 387,911; Aug. 22. Class 16.

Manzoni, Lino, doing business as Linok Herbal Products, New York, N. Y. Antiseptic astringent and tonic for the skin. Serial No. 420,869; Aug. 22. Class 6.

Marconi, Orelia D. C., New York, N. Y. Hair tonic and preparations for the hair and scalp. Serial No. 420,020; Aug. 22. Class 6.

Marja Brassiere Company, The. (See Childs, Margia K.)

Mastic Asphalt Corporation, South Bend, Ind. Weatherproofed building siding material. Serial No. 401,067; Aug. 22. Class 12.

McCunn, James M., doing business as James M. McCunn and Company, New York, N. Y. Whiskey. Serial No. 419,083; Aug. 22. Class 49.

McGraw-Hill Publishing Company, Inc., New York, N. Y. Periodical. Serial No. 420,538; Aug. 22. Class 38.

McLellan Stores Company, New York, N. Y. Shirts, blouses, and neckties. Serial No. 416,735; Aug. 22.

McNeil Laboratories, Incorporated, Philadelphia, Pa. Medicinal capsules and tablets. Serial No. 420,493; Aug. 22. Class 6.

Meadow Brook Farms. (See Miller, John A.)

Meincke, A. M., & Son, Inc., Chicago, Ill. Powdered material for use in making, coating, filling, or treating paper. Serial No. 415,343; Aug. 22. Class 6.

Menasha Products Company, Menasha, Wis. Paper cartons. Serial No. 415,954; Aug. 22. Class 2.

Merkel & Kienlin G. m. b. H., Esslingen, Germany. Bonnets, caps, hoods, etc. Serial No. 412,862; Aug. 22 Class 39.

Midwest Laboratories. (See Quinn, J. W., Drug Co.)

Miller, John A., doing business as Meadow Brook Farms, Nazareth, Pa. Dehydrated alfalfa meal used as a feed. Serial No. 418,934; Aug. 22. Class 46.

Mitsubishi Shoji Kaisha Ltd., Tokyo, Japan, and New York, N. Y. Raw silk. Serial No. 420,012; Aug. 22 Class 1.

Mitsubishi Shoji Kaisha Ltd., Tokyo, Japan, and New York, N. Y. Raw silk. Serial No. 420,016; Aug. 22 Class 1.

Mohawk Tablet Company, Chicago, Ill. Loose leaf fillers, typewriting paper and stenographers' note books. Serial No. 403,919; Aug. 22. Class 37.

Nash-Finch Company, Minneapolis, Minn. Canned fruits and vegetables, catsup, etc. Serial No. 411,759; Aug. 22. Class 46.

National Electric Products Corporation, Pittsburgh, Pa. Conductors and cables. Serial Nos. 413,231-2; Aug. 22. Class 21.

Naylee Chemical Company, Philadelphia, Pa. Granular cleaner. Serial No. 420,870; Aug. 22. Class 4.

Old Town Ribbon & Carbon Co. Inc., New York, N. Y. Carbon paper and typewriter ribbons. Serial No. 420,110; Aug. 22. Class 11.

Paltridge, Richard, Jr., Chicago, Ill. Paddle and ball game. Serial No. 419,937; Aug. 22. Class 22.

Parke, Davis & Company, Detroit, Mich. Preparation for treatment of spasmodic and convulsive conditions Serial No. 421,437; Aug. 22. Class 6.

Patterer, Peter, Inc., Battle Creek, Mich. Peat. Serial No. 420,497; Aug. 22. Class 1.

Peavey, F. H., & Company, doing business as Thief River Falls Seed House, Minneapolis and Thief River Falls, Minn. Salt. Serial No. 421,158; Aug. 22. Class 46.

Pellcano, Richard D., Washington, D. C. Gasoline, lubricating oils, and lubricating greases. Serial No. 417,778; Aug. 22. Class 15.

Penney, J. C., Company, Wilmington, Del., and New York, N. Y. Slips and foundation garments. Serial No. 419,085; Aug. 22. Class 39.

Perfect Circle Company, The, Hagerstown, Ind. Trade publication. Serial Nos. 405,655-62; Aug. 22. Class 38.

Perfect Circle Company, The, Hagerstown, Ind. Trade publication. Serial No. 405,664; Aug. 22. Class 38.

Photo-Lithographer, Inc., The, New York, N. Y. Publication. Serial No. 420,111; Aug. 22. Class 38.

Picciotto, M., Inc., New York, N. Y. Writing paper, envelopes, correspondence cards, etc. Serial No. 420,259; Aug. 22. Class 37.

Pillsbury Flour Mills Company, Minneapolis, Minn. Wheat flour. Serial No. 420,688; Aug. 22. Class 46.

Piowaty Bros. of Illinois, Inc., Chicago, Ill. Onions. Serial No. 421,097; Aug. 22. Class 46.

Quinn, J. W., Drug Co., doing business as Midwest Laboratories, Greenwood, Miss. Epsom salt. Serial No 418,362; Aug. 22. Class 6.

Reineman Furs, Inc., New York, N. Y. Fur coats, jackets, scarfs, etc. Serial No. 418,600; Aug. 22. Class 39.

Remington Rand Inc., Buffalo, N. Y. Typewriters. Serial No. 419,733; Aug. 22. Class 23.

Resteria, Inc., New Orleans, La. Sandwiches. Serial No. 420,499; Aug. 22. Class 46.

Richards, John R., doing business as Continental Chemical and Color Co., Chicago, Ill. Compound for preventing formation of scale in boilers, etc., and for elimination of scale therefrom. Serial No. 419,526; Aug. 22. Class 6.

Road Ahead Publishing Co., The. (See Cornell, Paul L.)

Rosenblatt, Arthur J., Washington, D. C. Ladies' dresses, coats, suits, etc. Serial No. 419,527; Aug. 22. Class 39.

Ross & Rowe, Inc., doing business as Ross & Rowe Laboratories, New York, N. Y. Sun tan lotion. Serial No. 419,312; Aug. 22. Class 6.

Russell Manufacturing Company, The, doing business as Southern Manufacturing Company, Alexander City, Ala Sweat shirts, sweat pants, warm-up suits, etc. Serial No. 420,500; Aug. 22. Class 39.

Saccone, Speed & Jenny, Inc., New York, N. Y. Whiskey. Serial No. 421,539; Aug. 22. Class 49.

Sage, Peggy, Inc., New York, N. Y. Nail polish, nail polish remover, nail enamel, etc. Serial No. 416,618; Aug. 22. Class 6.

Sales Research, Incorporated, Cleveland, Ohio. Books of blank forms. Serial No. 420,187; Aug. 22. Class 37.

Sanders, Altina, New York, N. Y. Ophthalmic mountings and lenses and parts thereof. Serial No. 420,916; Aug 22. Class 26.

Schering Corporation, Bloomfield, N. J. Medicinal preparation. Serial No. 421,324; Aug. 22. Class 6.

Schmidt, C., Co., The, Cincinnati, Ohio. Refrigerators and refrigerated display cases. Serial No. 420,340; Aug. 22. Class 31.

Schneierson, I., & Sons, Inc., New York, N. Y. Frocks and dresses. Serial No. 420,545; Aug. 22. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Table damask. Serial No. 421,259; Aug. 22. Class 42.

Serv-Iced Mfg. Co., Los Angeles, Calif. Beverage cooler and dispenser. Serial No. 411,186; Aug. 22. Class 31.

Silbrite Chemical Co. (See Sowa, Frank J.)

Smith, Willa E., doing business as Little Gem Mfg. Co., San Diego, Calif. Shoulder strap holders. Serial No. 420,434; Aug. 22. Class 40.

Smooth-Fit Brassiere Co., Inc., New York, N. Y. Brassières, girdles, and slips. Serial No. 417,557; Aug. 22. Class 39.

Society of Chemical Industry in Basle, Basel, Switzerland. Lacquers and varnishes. Serial No. 414,014; Aug. 22. Class 16.

Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Floor primer and sealer. Serial No. 420,148; Aug. 22. Class 16.

Southern Manufacturing Company. (See Russell Manufacturing Company, The.)

Sowa, Frank J., doing business as Silbrite Chemical Co., New York, N. Y. Silver and metal tarnish preventing fluid. Serial No. 418,316; Aug. 22. Class 6.

Specialty Products Company, Ottumwa, Iowa. Board games. Serial No. 415,673; Aug. 22. Class 22.

Standard Milling Company, New York, N. Y. Wheat flour and high gluten flour. Serial No. 418,372; Aug. 22. Class 46.

Standard Oil Company of California, Wilmington, Del., and San Francisco, Calif. Merchandising equipment. Serial No. 419,890; Aug. 22. Class 32.

Stearns, Frederick, & Company, Detroit, Mich. Analgesic tablets. Serial No. 420,345; Aug. 22. Class 6.

Stedfast Rubber Company, Inc., Boston, Mass. Rubberized hospital sheeting. Serial No. 421,209; Aug. 22. Class 44.

Steelblast Abrasives Company, Cleveland, Ohio. Loose abrasive materials. Serial No. 419,563; Aug. 22. Class 4.

Steele's Mills, Rockingham, N. C. Cotton piece goods for canvasing walls and ceilings before papering. Serial No. 420,392; Aug. 22. Class 42.

Swartz, Roy E., doing business as Aerolene Sales Co., Los Angeles, Calif. Non-acid motor oil purifier. Serial No. 419,213; Aug. 22. Class 6.

Talco Asphalt and Refining Company, Mount Pleasant, Tex. Gasoline. Serial No. 418,992; Aug. 22. Class 15.

Taylor Chemical Company, The, Hollywood, Los Angeles, Calif. Chemical composition. Serial No. 407,395; Aug. 22. Class 6.

Tend-R-Lux Meat Products Company. (See York, Henry H.)

Thief River Falls Seed House. (See Peavey, F. H., & Company.)

Time, Incorporated, New York, N. Y. Magazine and for pamphlets. Serial No. 421,013; Aug. 22. Class 38.

Towne Talk Company, Los Angeles, Calif. Syrups, extracts, flavors and liquid coloring, etc. Serial No. 420,466; Aug. 22. Class 45.

Trumbull Electric Manufacturing Company, The, Plainville, Conn. Electric switches and panelboards, and parts thereof. Serial No. 419,402; Aug. 22. Class 21.

Tyrrell and Garth, Inc., Houston, Tex. Canned vegetables, fruits, and fruit juices. Serial No. 406,660; Aug. 22. Class 46.

Ugoa Game Co., Los Angeles, Calif. Horse-racing game. Serial No. 420,607; Aug. 22. Class 22.

Union Asbestos & Rubber Company, Chicago, Ill. Steel tables, display racks, and cabinets. Serial No. 421,170; Aug. 22. Class 32.

United Cigar-Whelan Stores Corporation, New York, N. Y. Sanitary napkins. Serial No. 421,548; Aug. 22. Class 44.

United States Gypsum Company, Chicago, Ill. Metallic clips for attaching building boards. Serial No. 408,358; Aug. 22. Class 12.

United States Gypsum Company, Chicago, Ill. Acoustical fibre board. Serial No. 412,740; Aug. 22. Class 12.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. Serial No. 421,328; Aug. 22. Class 22.

United States Playing Card Company, The, Cincinnati, Ohio. Playing cards. Serial No. 421,403; Aug. 22. Class 22.

United States Rubber Company, New York, N. Y. Rubber inner tubes for tires. Serial No. 421,268; Aug. 22. Class 35.

Universal Camera Corporation, New York, N. Y. Cameras. Serial No. 419,319; Aug. 22. Class 26.

Universal Camera Corporation, New York, N. Y. Cameras. Serial Nos. 419,352-3; Aug. 22. Class 26.

Universal Dental Company, Philadelphia, Pa. Dental supplies. Serial No. 421,404; Aug. 22. Class 44.

Universal Motor Oils Company, The, Wichita, Kans. Lubricating motor oils and greases. Serial No. 406,952; Aug. 22. Class 15.

Upco Press Publishing Co., The, Youngstown, Ohio. Publication. Serial No. 420,157; Aug. 22. Class 38.

Valette, J. L. J., & Cie, Paris, France. Field, marine, and opera glasses. Serial Nos. 415,063-4; Aug. 22. Class 26.

Vandam, Albert H., Co., Inc., New York, N. Y. Cotton piece goods. Serial No. 420,735; Aug. 22. Class 42.

Vita Sales Corporation, St. Louis, Mo. Liquid food. Serial No. 416,928; Aug. 22. Class 46.

Vulcanized Rubber Company, The, New York, N. Y. Combs. Serial No. 409,145; Aug. 22. Class 40.

Warn-O-Lite Company, Los Angeles, Calif. Controls for signal lights for vehicles and machinery. Serial No. 414,806; Aug. 22. Class 21.

Warren, Andrew R., Oklahoma City, Okla. Lotion. Serial No. 419,534; Aug. 22. Class 6.

Wayne Knitting Mills, The, Fort Wayne, Ind. Stockings Serial No. 420,554; Aug. 22. Class 39.

Weil, Bernard, Inc., New York, N. Y. Yarns. Serial No. 420,351; Aug. 22. Class 43.

White Eagle Brewing Company, Chicago, Ill. Beer. Serial No. 420,352; Aug. 22. Class 48.

Williamson Candy Company, Chicago, Ill. Candy. Serial No. 416,591; Aug. 22. Class 46.

Wise, A. B., doing business as A. B. Wise & Sons, Cincinnati, Ohio. Noodles, dried fruits, condiments, etc. Serial No. 401,759; Aug. 22. Class 46.

Wood Preserving Corporation, The, Pittsburgh, Pa. Metal-faced wood track-rail ties. Serial No. 405,905; Aug. 22. Class 12.

Xterminator Products Corporation, Jersey City, N. J. Insecticides. Serial No. 419,784; Aug. 22. Class 6.

Yerk, Henry H., doing business as Tend-R-Lux Meat Products Company, Davenport, Iowa. Ham, beef, veal, etc. Serial No. 419,600; Aug. 22. Class 46.

LIST OF REGISTRANTS OF TRADE-MARKS

Allen-Bradley Company, Milwaukee, Wis. Electric switches. 370,234; Aug. 22; Serial No. 416,237; published June 13, 1939. Class 21.

Almeida, José, New Bedford, Mass. Olive oil. 370,220; Aug. 22; Serial No. 415,206; published June 13, 1939. Class 46.

American Bleached Goods Company, Inc., New York, N. Y. Piece goods. 370,189; Aug. 22; Serial No. 409,669; published Mar. 7, 1939. Class 42.

American Hominy Company, assignor to Evans Milling Company, Indianapolis, Ind. Breakfast-cereal. 126,620; renewed Sept. 30, 1939.

American Institute of Mining and Metallurgical Engineers, Inc., New York, N. Y. Publication. 370,176; Aug. 22; Serial No. 403,351; published May 30, 1939. Class 38.

American Porcelain Enamel Company, Muskegon, Mich. Porcelain frit. 370,242; Aug. 22; Serial No. 416,635; published June 6, 1939. Class 1.

American Seal-Kap Corporation of Delaware, Long Island City, N. Y. Milk bottle caps. 370,367; Aug. 22. Class 50.

Andresen, Incorporated, Pittsburgh, Pa. Periodical. 370,218; Aug. 22; Serial No. 414,941; published June 6, 1939. Class 38.

An-Fo Manufacturing Co. (See Rosefield, John B.)

Aqua-Sec Corporation, now by change of name Yuba Corporation, assignor to Aqua-Sec Corporation, New York, N. Y. Piece goods treated by a special process to render the same waterproof or water spot-proof and otherwise improve the same. 370,162; Aug. 22; Serial No. 361,596; published June 6, 1939. Class 50.

Arecibo Fruit Growers Cooperative Association, Arecibo, P. R. Canned fruit juices. 370,310; Aug. 22; Serial No. 418,130; published June 13, 1939. Class 46.

Aspinook Company, The, assignor to The Aspinook Corporation, Jewett City, Conn. Woven textile fabrics. 370,348; Aug. 22. Class 42.

Association of 20-30 Clubs, The, Sacramento, Calif. Magazine. 370,263; Aug. 22; Serial No. 417,432; published June 6, 1939. Class 38.

Barron's Publishing Co., Boston, Mass. Column in a publication. 370,285; Aug. 22; Serial No. 417,858; published June 13, 1939. Class 38.

Bates Street Shirt Company, Lewiston, Maine, assignor, by mesne assignments, to V. Bruno, doing business as Bates Street Shirt Company, New York, N. Y. Overshirts, undershirts, underdrawers, etc. 122,569; renewed Aug. 27, 1938.

Beasley, J. W., & Co., Inc., Los Angeles, Calif. Fresh fruits and vegetables. 370,219; Aug. 22; Serial No. 415,102; published Apr. 4, 1939. Class 46.

Benrus Watch Co., Inc., New York, N. Y. Watches and watches and attached bracelets sold as a unit. 370,243; Aug. 22; Serial No. 416,679; published June 6, 1939. Class 27.

Bergonize Company, The, Chicago, Ill. Water soluble, transparent, protective wall coating. 370,287; Aug. 22; Serial No. 417,902; published June 13, 1939. Class 16.

Berthelsen, Sarah, doing business as Dentabrite Laboratories, Portland, Oreg. Cleaning powders. 370,222; Aug. 22; Serial No. 415,315; published May 30, 1939. Class 4.

Better Turf Products Co. (See Cahn, Erich.)
Blue Label Manufacturing Company, Great Falls, Mont. Furniture polish. 370,309; Aug. 22; Serial No. 418,090; published June 13, 1939. Class 16.
Bonheur Co. Inc., The, Syracuse, to The Bonheur Co., Inc., New York, N. Y. Toilet water. 128,636; renewed Jan. 13, 1940.
Borden Company, The, New York, N. Y. Fluid milk. 370,260; Aug. 22; Serial No. 417,357; published June 13, 1939. Class 46.
Brooklyn Shield & Rubber Co., now by change of name to Rand Rubber Company, Inc., Brooklyn, N. Y. Dressshields. 128,644; renewed Jan. 13, 1940.
Bruce's Marble and Granite Works, Fort Scott, Kans. Granite monuments. 370,246; Aug. 22; Serial No. 416,943; published June 6, 1939. Class 50.
Bruno, Vincent. (See Bates Street Shirt Company, assignor.)
Bulova Watch Company, Inc., New York, N. Y. Watches. 370,317–8; Aug. 22; Serial Nos. 418,288–9; published June 13, 1939. Class 27.
Butt, H. E., Grocery Company, Harlingen and Corpus Christi, Tex. Soap chips and cleanser. 370,247; Aug. 22; Serial No. 416,944; published May 30, 1939. Class 4.
Buzza Company, The, Minneapolis, Minn. Greeting cards. 370,266; Aug. 22; Serial No. 417,486; published June 6, 1939. Class 38.
Cahn, Erich, doing business as Better Turf Products Co., New York, N. Y. Lawn seed and other grass seeds. 370,360; Aug. 22. Class 1.
Catanzaro, Alfred, doing business as A. Catanzaro & Co., Long Island City, N. Y. Olive oil. 370,300; Aug. 22; Serial No. 418,032; published June 13, 1939. Class 46.
Cato Oil & Grease Company, Oklahoma City, Okla. Lubricating oils and greases. 370,361; Aug. 22. Class 15.
Celotex Corporation, The, Chicago, Ill. Lightweight aggregate. 370,336; Aug. 22; Serial No. 418,625; published June 13, 1939. Class 1.
Celotex Corporation, The, Chicago, Ill. Mineral surfaced roll roofing and soft plastic cement. 370,337; Aug. 22; Serial No. 418,626; published June 13, 1939. Class 12.
Celotex Corporation, The, Chicago, Ill. Roll roofing. 370,338; Aug. 22; Serial No. 418,627; published June 13, 1939. Class 12.
Certain-teed Products Corporation, New York, N. Y. Webs or sheets of sheathing and insulating and damp proof material. 370,350; Aug. 22. Class 12.
Chicago Mill and Lumber Company. (See Darnell, R. J., Incorporated.)
Colgate-Palmolive-Peet Company, Jersey City, N. J. Scripts for a series of commercial radio broadcasts. 370,239; Aug. 22; Serial No. 416,504; published June 13, 1939. Class 38.
Colgate-Palmolive-Peet Company, Jersey City, N. J. Shaving cream. 370,258; Aug. 22; Serial No. 417,329; published June 6, 1939. Class 4.
Collins, A. M., Manufacturing Company, Philadelphia, Pa. Paper and stationery. 128,334; renewed Jan. 6, 1940.
Collis Products Company, Clinton, Iowa, assignor, by mesne assignments, to Kraft-Phenix Cheese Corporation, Chicago, Ill. Powdered buttermilk. 128,232; renewed Dec. 30, 1939.
Colonial Tobacco Company. (See Griffith, Raymond F.)
Commercial Shirt Company, assignor, by mesne assignments, to Commercial Shirt Corporation, New York, N. Y. Cotton and silk piece goods. 127,363; renewed Nov. 11, 1939.
Consolidated Decalcomania Corporation, Jamaica, N. Y. Decalcomania transfers. 370,301; Aug. 22; Serial No. 418,034; published May 30, 1939. Class 38.
Cosby Brush & Import Company, Inc., New York, N. Y. Toilet brushes. 370,340; Aug. 22; Serial No. 418,677; published June 13, 1939. Class 29.
Curran Corporation, The, Malden, Mass. Liquid cleaning preparation and solvent. 370,250; Aug. 22; Serial No. 417,084; published May 30, 1939. Class 4.
Darnell, R. J., Incorporated, Memphis, Tenn, to Chicago Mill and Lumber Company, Chicago, Ill., successor. Milled lumber. 126,521–2; renewed Sept. 16, 1939.
Davis, Sam J., Homestead, Fla. Fresh avocados. 370,288; Aug. 22; Serial No. 417,906; published June 13, 1939. Class 46.
Decker, Ira M., Denver, Colo. Cigarettes. 370,259; Aug. 22; Serial No. 417,331; published June 6, 1939. Class 17.
Dehls & Stein, Inc., Newark, N. J. Cereal extract for use in the brewing industry. 370,261; Aug. 22; Serial No. 417,367; published June 13, 1939. Class 48.
Del Bono, Salvatore F., Philadelphia, Pa. Newspaper column. 370,251; Aug. 22; Serial No. 417,119; published May 30, 1939. Class 38.
Dentabrite Laboratories. (See Berthelsen, Sarah.)
Deutschmann, Tobe, Corporation, Canton, Mass. Electrical measuring apparatus. 370,168; Aug. 22; Serial No. 389,120; published June 13, 1939. Class 26.
Dobeckmun Company, The, Cleveland, Ohio. Printed transparent sheeting, printed coated paper, etc. 370,238; Aug. 22; Serial No. 416,497; published June 13, 1939. Class 37.
Donovan, F. C., Inc., Boston, Mass. Leather. 370,249; Aug. 22; Serial No. 417,051; published June 6, 1939. Class 1.
Dreyfuss, Jerome, doing business as International Ring Company, Buffalo, N. Y. Solid gold finger rings. 370,213; Aug. 22; Serial No. 413,808; published June 6, 1939. Class 28.
Eaton Paper Corporation, Pittsfield, Mass. Typewriter paper. 370,206; Aug. 22; Serial No. 412,853; published June 6, 1939. Class 37.
Eau de Cologne- & Parfumerie-Fabrik. (See Mülhens, Ferd., Inc.)
Eclipse Lawn Mower Company, Prophetstown, Ill. Power lawn mowers. 370,329–30; Aug. 22; Serial No. 418,514–5; published June 13, 1939. Class 23.
Economy Forms Corporation, Des Moines, Iowa. Metal forms for concrete structures. 370,216; Aug. 22; Serial No. 414,397; published June 6, 1939. Class 12.
Ehrlich, Nathan H., Charlotte, N. C. Preparation for preventing collection of moisture on windshields of automobiles. 370,370; Aug. 22. Class 4.
Electric Vacuum Cleaner Company, Inc., Cleveland, Ohio. Electric vacuum cleaners and parts thereof. 370,198; Aug. 22; Serial No. 411,406; published June 13, 1939. Class 21.
Emanuel, Jay, Publications, Inc., Philadelphia, Pa. Magazine. 370,289; Aug. 22; Serial No. 417,916; published June 6, 1939. Class 38.
Empire Silk Company, Wilmington, Del., and New York, N. Y., assignor to A. D. Juilliard & Co., Inc., New York, N. Y. Silk piece goods. 125,991; renewed July 22, 1939.
Empire Silk Company, Wilmington, Del., and New York, N. Y., assignor to A. D. Juilliard & Co., Inc., New York, N. Y. Silk piece goods. 126,530; renewed Sept. 16, 1939.
Eskimo Pie Corporation, Bloomfield, N. J. Edible coating such as chocolate. 370,175; Aug. 22; Serial No. 403,120; published June 13, 1939. Class 46.
Esleeck Manufacturing Co., Turners Falls, Mass. Paper. 128,373; renewed Jan. 6, 1940.
Esleeck Manufacturing Co., Turners Falls, Mass. Papers. 128,686–7; renewed Jan. 13, 1940.
Evans Milling Company. (See American Hominy Company, assignor.)
Fabriques Movado, La Chaux-de-Fonds, Switzerland. Watches and parts of watches. 370,294; Aug. 22; Serial No. 417,959; published June 6, 1939. Class 27.
Federal Fruit Distributors, Fresno, Calif. Fresh deciduous fruits, fresh grapes. 370,170; Aug. 22; Serial No. 396,984; published Feb. 21, 1939. Class 46.
Filippone, B., & Co. Inc., Passaic, N. J. Macaroni. 370,296; Aug. 22; Serial No. 418,001; published June 13, 1939. Class 46.
Fingles, W. A., Inc., also doing business as Majestic Flashing Co., Baltimore, Md. Fibre wall flashing. 370,269; Aug. 22; Serial No. 417,567; published May 30, 1939. Class 12.
Folker Fabrics, Inc., New York, N. Y. Printed textile fabrics in the piece. 370,298–9; Aug. 22; Serial Nos. 418,023–4; published June 13, 1939. Class 42.
Fox, G., & Co., Inc., Hartford, Conn. Dresses, coats, suits, etc. 370,373; Aug. 22. Class 39.
Fox River Paper Co., assignor to Fox River Paper Corporation, Appleton, Wis. Writing-paper. 128,238; renewed Dec. 30, 1939.
Frankel, Simon. (See Sonora Phonograph Corporation.)
Gair, Robert, Company, Inc., New York, N. Y. Cartons. 370,230; Aug. 22; Serial No. 415,941; published May 16, 1939. Class 2.
Galena Oil Corporation, Cincinnati, Ohio. Motor oils. 370,282; Aug. 22; Serial No. 417,837; published June 6, 1939. Class 15.
Gardex, Inc., Michigan City, Ind. Printed articles. 370,254; Aug. 22; Serial No. 417,170; published June 6, 1939. Class 38.
Gelb, Peter, Los Angeles, Calif. Depilatory product. 370,366; Aug. 22. Class 6.
General Chemical Company, New York, N. Y. Cattle-dip. 126,684; renewed Sept. 30, 1939.
General Mills, Inc., Minneapolis, Minn. Granular synthetic detergent. 370,274; Aug. 22; Serial No. 417,609; published June 13, 1939. Class 4.
General Time Instruments Corporation, New York, N. Y., and La Salle, Ill. Clocks and watches. 370,180; Aug. 22; Serial No. 404,645; published June 6, 1939. Class 27.
General Tire & Rubber Company, The, Akron, Ohio. Liquid preparations for cleaning and dressing rubber articles. 370,166; Aug. 22; Serial No. 381,612; published June 6, 1939. Class 4.
Gernes Garment Company, Inc., The, Kansas City, Mo. Cotton, rayon piece goods. 370,244; Aug. 22; Serial No. 416,849; published June 13, 1939. Class 42.
Gimbel Brothers, Inc., New York, N. Y. Coats, suits, dresses, etc. 370,369; Aug. 22. Class 39.
Golden Rule Oil Company, The, Wichita, Kans. Gasoline, kerosene, lubricating oils, and greases. 370,223; Aug. 22; Serial No. 415,386; published June 13, 1939. Class 15.
Greentree Publishers, Inc., Boston, Mass. Greeting cards. 370,208; Aug. 22; Serial No. 413,403; published June 6, 1939. Class 38.
Griffith, Raymond F., doing business as Colonial Tobacco Company, St. Louis, Mo. Smoking tobacco. 370,255; Aug. 22; Serial No. 417,171; published June 13, 1939. Class 17.

Gum Incorporated, Philadelphia, Pa. Chewing gum. 370,270; Aug. 22; Serial No. 417,573; published June 13, 1939. Class 46.
Harte & Wyle, assignor to R. S. Harte, New York, N. Y. Waterproofed silk fabric. 370,167; Aug. 22; Serial No. 382,429; published Nov. 3, 1936. Class 50.
Hartness, Ray A., Weslaco, Tex. Fresh vegetables. 370,267; Aug. 22; Serial No. 417,491; published June 13, 1939. Class 46.
Hedge, Marvin K., Portland, Oreg., and Norwich, N. Y. Fishing tackle and accessories. 370,381; Aug. 22. Class 22.
Herb Products Medicine Company, Jackson, Tenn. Tonic laxative compound. 370,231; Aug. 22; Serial No. 416,011; published June 6, 1939. Class 6.
Hercules Powder Company, Wilmington, Del. Resin. 370,277–8; Aug. 22; Serial Nos. 417,760–1; published June 6, 1939. Class 1.
Hide and Leather Publishing Co., Chicago, Ill. Periodical. 370,252; Aug. 22; Serial No. 417,124; published May 30, 1939. Class 38.
Home Needs Co. (See Safeway Stores, Inc.)
Hudspeth, George T., Dallas, Tex. Carbon transfer ribbons. 370,371; Aug. 22. Class 11.
Hunt, C. Howard, Pen Co., Camden, N. J. Pen points. 370,279; Aug. 22; Serial No. 417,762; published June 6, 1939. Class 37.
Hunter, Robert L., doing business as The Nautical Clock Company, Norfolk, Va. Watches, clocks, chronometers, and dials therefor. 370,233; Aug. 22; Serial No. 416,226; published June 6, 1939. Class 27.
Hutchinson, Henry F., New York, N. Y. Designs for hats, shoes, gloves, etc. 370,195; Aug. 22; Serial No. 412,142; published May 30, 1939. Class 38.
Hydraulic Pressed Steel Company, The, Cleveland, assignor, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio. Automobile-frames. 126,169; renewed July 29, 1939.
Imperial Knife Co., Inc., Providence, R. I. Pocket knives. 370,200; Aug. 22; Serial No. 411,532; published June 13, 1939. Class 23.
Industrial Sugars Corporation, Chicago, Ill. Syrups. 370,302; Aug. 22; Serial No. 418,044; published June 13, 1939. Class 46.
Interchemical Corporation, New York, N. Y. Compound for drying printing ink. 370,211; Aug. 22; Serial No. 413,788; published Apr. 4, 1939. Class 11.
International Ring Company. (See Dreyfuss, Jerome.)
International Silver Company, Meriden, Conn. Silverplated flatware. 370,323; Aug. 22; Serial No. 418,443; published June 13, 1939. Class 28.
Ivins', J. S., Son, Inc., Philadelphia, Pa. Crackers, cakes, biscuits, etc. 370,197; Aug. 22; Serial No. 411,336; published Feb. 21, 1939. Class 46.
Ivon Bear Co., Inc., New York, N. Y. Ornamental figures. 370,210; Aug. 22; Serial No. 413,755; published June 6, 1939. Class 50.
Jarvis, H. E., & Co., Limited, London, England. Toilet soaps. 370,322; Aug. 22; Serial No. 418,409; published June 6, 1939. Class 4.
Jenaer Glaswerk Schott & Gen., Jena, Germany. Medical, surgical, and dental instruments, materials, and appliances, etc. 370,164; Aug. 22; Serial No. 376,161; published June 13, 1939. Class 44.
Jenaer Glaswerk Schott & Gen., Jena, Germany. Medical, surgical, and dental instruments, materials, and appliances, etc. 370,165; Aug. 22; Serial No. 378,963; published June 13, 1939. Class 44.
Jirunek, Leo, New York, N. Y. Title for a newspaper column. 370,236; Aug. 22; Serial No. 416,326; published May 30, 1939. Class 38.
Johnson, Louis, Co. (See Nelson, John.)
Jones, William T., doing business as Wm. Tyrrell Jones Co., Detroit, Mich. Compounds for the extermination of pests. 370,375; Aug. 22. Class 6.
Juilliard, A. D., & Co., Inc. (See Empire Silk Company, assignor.)
Karasik Bros. Co., Chicago, Ill. Canned foods. 370,163; Aug. 22; Serial No. 375,708; published June 13, 1939. Class 46.
Karfoam Corporation, Dover, Del., and New York, N. Y. Automobile wash. 370,275; Aug. 22; Serial No. 417,649; published June 13, 1939. Class 4.
Kasco Mills, Inc., Toledo, Ohio. Feed. 370,378; Aug. 22. Class 46.
Keeling Company, Inc., Des Moines, Iowa. Tooth brushes. 370,372; Aug. 22. Class 29.
Kelco Company, San Diego, Calif. Sodium alginate. 370,290; Aug. 22; Serial No. 417,918; published June 13, 1939. Class 46.
Koppel Industrial Car & Equipment Company, Koppel and Pittsburgh, assignor to Pressed Steel Car Company, Inc., Pittsburgh, Pa. Machinery. 128,752; renewed Jan. 13, 1940.
Kraft-Phenix Cheese Corporation. (See Collis Products Company, assignor.)
Krasne, A., Inc., New York, N. Y. Lemon oil furniture polish. 370,362; Aug. 22. Class 16.
Krasne, A., Inc., New York, N. Y. General household cleanser and scouring compound. 370,363; Aug. 22. Class 4.
Krasne, A., Inc., New York, N. Y. Ammonia. 370,364; Aug. 22. Class 6.
Kresge, S. S., Company, Detroit, Mich. Watches and clocks. 370,316; Aug. 22; Serial No. 418,278; published June 13, 1939. Class 27.
Landi & Avino, New York, N. Y. Canned tomatoes. 370,207; Aug. 22; Serial No. 413,073; published June 13, 1939. Class 46.
Laucks, I. F., Inc., Seattle, Wash. Plywood. 370,192; Aug. 22; Serial No. 410,595; published June 13, 1939. Class 12.
Lavino, E. J., and Company, Philadelphia, Pa. Refractory bricks, plastics and cements. 370,291; Aug. 22; Serial No. 417,920; published June 6, 1939. Class 12.
Lavino, E. J., and Company, Philadelphia, Pa. Material for making cast refractory bodies. 370,292; Aug. 22; Serial No. 417,923; published June 6, 1939. Class 12.
Lavino, E. J., and Company, Philadelphia, Pa. Refractory material for tap hole mixes. 370,293; Aug. 22; Serial No. 417,924; published June 6, 1939. Class 12.
Lee Polish Mfg. Co. Inc., Brooklyn, N. Y. Paper tissues particularly adapted for polishing and cleaning. 370,177; Aug. 22; Serial No. 403,414; published June 21, 1938. Class 37.
Life Savers Corporation. (See Mint Products Company, Inc., assignor.)
Lily's Chocolate Shop. (See Papas, Christus A.)
Lockwood, L. B., Company, The, Cleveland, Ohio. Wool fiber. 370,214; Aug. 22; Serial No. 413,809; published June 6, 1939. Class 1.
Loma Linda Food Company, Loma Linda, Calif. Extract of yeast and vegetables. 370,187; Aug. 22; Serial No. 408,612; published Dec. 27, 1938. Class 46.
Longines-Wittnauer Watch Co. Inc., New York, N. Y. Watches and clocks. 370,303–4; Aug. 22; Serial Nos. 418,047–8; published June 6, 1939. Class 27.
Lorillard, P., Company, New York, N. Y. Cigarettes and smoking tobacco. 370,325; Aug. 22; Serial No. 418,487; published June 13, 1939. Class 17.
Lyon & Coulson, Inc., Buffalo, N. Y. Fishing leaders. 370,196; Aug. 22; Serial No. 411,173; published June 13, 1939. Class 22.
Mackintosh-Hemphill Company, Pittsburgh, Pa. Unfinished castings. 370,225–8; Aug. 22; Serial Nos. 415,725–8; published June 13, 1939. Class 14.
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Electric condensers or capacitors, electrolytic condensers or capacitors, etc. 370,326; Aug. 22; Serial No. 418,489; published June 13, 1939. Class 21.
Mallory, P. R., & Co., Inc., Indianapolis, Ind. Variable inductance devices, inductive tuning devices, etc. 370,327; Aug. 22; Serial No. 418,490; published June 13, 1939. Class 21.
MacNair-Dorland Company, New York, N. Y. Periodical. 370,253; Aug. 22; Serial No. 417,130; published May 30, 1939. Class 38.
Macy, R. H., & Co., Inc., New York, N. Y. Periodical. 370,203; Aug. 22; Serial No. 412,264; published May 30, 1939. Class 38.
Maine Potato Growers, Inc., Presque Isle, Maine. Seed potatoes. 370,297; Aug. 22; Serial No. 418,010; published June 13, 1939. Class 1.
Majestic Flashing Co. (See Fingles, W. A., Inc.)
Malcolmson Coal Company, Detroit, Mich. Coal and coke. 370,188; Aug. 22; Serial No. 409,549; published June 13, 1939. Class 1.
Marathon City Brewing Company, The, Marathon City, Wis. Beer. 370,237; Aug. 22; Serial No. 416,446; published June 13, 1939. Class 48.
Marna Manufacturing Company, St. Louis, Mo. Upholstery and rug cleaner. 370,256; Aug. 22; Serial No. 417,224; published June 6, 1939. Class 4.
Martin-Copeland Company, Providence, R. I. Spectacles, spectacle-frames, and mountings for eyeglasses. 128,449; renewed Jan. 6, 1940.
Mason City Brick and Tile Company, Mason City, Iowa. Building tile. 370,355; Aug. 22. Class 12.
Matheson Alkali Works (Inc.), The, New York, N. Y. Preparation in powder form. 370,224; Aug. 22; Serial No. 415,518; published May 30, 1939. Class 4.
May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Crib sheets and pillow cases, knit crib sheets, etc. 370,276; Aug. 22; Serial No. 417,698; published June 13, 1939. Class 42.
McLoughlin Bros., Inc., Springfield, Mass. Paper toy. 370,333; Aug. 22; Serial No. 418,550; published June 13, 1939. Class 22.
Mead Johnson & Company, Evansville, Ind. Viosterol, halibut liver oil, oil of percomorph fishes, etc. 370,380; Aug. 22. Class 6.
Melbern, Inc., Los Angeles, Calif. Cosmetic brushes. 370,212; Aug. 22; Serial No. 413,793; published June 13, 1939. Class 29.
Memorials Permanesque Inc., Barre, Vt. Granite monuments and memorials. 370,341; Aug. 22; Serial No. 418,723; published June 13, 1939. Class 50.
Meyer, Geo. D., doing business as Wholesale Petroleum Products Corp., Cincinnati, Ohio. Motor oil. 370,365; Aug. 22. Class 15.
Millspaugh, Giles W., Jr., Natchitoches, La. Blank record sheets. 370,268; Aug. 22; Serial No. 417,500; published June 6, 1939. Class 37.

Mint Products Company, Inc., New York, assignor, by mesne assignments, to Life Savers Corporation, Port Chester, N. Y. Chewing-gum and candy. 128,462; renewed Jan. 6, 1940.
Miracle Patent Company. (See Rosenberger, Adolf.)
Modern Pac, Inc., Eau Claire, Mich. Boxes, paper containers, crates, and baskets. 370,179; Aug. 22; Serial No. 403,954; published May 23, 1939. Class 2.
Monarch Leather Company, Chicago, Ill. Leather. 370,280; Aug. 22; Serial No. 417,811; published June 6, 1939. Class 1.
Monarch Leather Company, Chicago, Ill. Leather. 370,351; Aug. 22. Class 1.
Monocraft Products Co. Inc., New York, N. Y. Pins, clips, bracelets, etc. 370,171; Aug. 22; Serial No. 398,544; published June 13, 1939. Class 28.
Montgomery, H. A., Company, The, Detroit, Mich. Additive primarily consisting of oil and serving to increase penetrating qualities of lubricants and reduce effects of temperature changes. 370,172; Aug. 22; Serial No. 399,852; published Aug. 2, 1938. Class 15.
Moore, George C., Company, Westerly, R. I. Wide elastic fabrics in the piece. 370,357; Aug. 22. Class 42.
Moore, Samuel D., doing business as Sam Moore & Co., Cleveland, Ohio. Sound insulating and deadening materials. 370,311; Aug. 22; Serial No. 418,202; published June 6, 1939. Class 12.
Mülhens, Ferd., Inc., assignor to P. P. Mülhens, doing business as Eau de Cologne- & Parfümerie-Fabrik, Cologne, Germany. Razor blades, safety razor blades, scissors, etc. 370,183; Aug. 22. Serial No. 406,260; published Oct. 18, 1938. Class 23.
Myers, W. F., Cambridge, Ohio. Chemical carbon-solvent and fuel-saver. 128,466; renewed Jan. 6, 1940.
National Broadcasting Company, Inc., New York, N. Y. Maps. 370,295; Aug. 22; Serial No. 417,973; published June 3, 1939. Class 38.
Natoli, Bartholomew F., doing business as Seagram Chemical Co., Passaic, N. J. Metal and silver polish. 370,181; Aug. 22; Serial No. 404,863; published May 30, 1939. Class 4.
Nautical Clock Company, The. (See Hunter, Robert L.)
Nelson, John, doing business as Louis Johnson Co., Chicago, Ill. Artificial fish lures. 370,209; Aug. 22; Serial No. 413,733; published June 13, 1939. Class 22.
Nestra Packing Company, Berkley, Mich. Dog food. 370,262; Aug. 22; Serial No. 417,411; published June 13, 1939. Class 46.
Nu-Mode Bag Co., Inc., The, South Norwalk, Conn. Ladies' handbags. 370,354; Aug. 22. Class 3.
Nusholtz, Florenz, St. Louis, Mo. Wiping rags and cloths. 370,286; Aug. 22; Serial No. 417,887; published June 6, 1939. Class 29.
O. & R. Products, Inc., New York, N. Y. Paint and varnish remover. 370,334; Aug. 22; Serial No. 418,590; published June 13, 1939. Class 16.
Office Tunisien de Standardisation, Tunis, Tunisia. Wines. 370,342; Aug. 22. Class 47.
Office Tunisien de Standardisation, Tunis, Tunisia. Sponges. 370,343; Aug. 22. Class 1.
Office Tunisien de Standardisation, Tunis, Tunisia. Olive oils, either alone or in mixture with other oils for lubricating purposes. 370,344; Aug. 22. Class 15.
Office Tunisien de Standardisation, Tunis, Tunisia. Cups, saucers, jugs, etc. 370,345; Aug. 22. Class 30.
Office Tunisien de Standardisation, Tunis, Tunisia. Knitted and netted piece goods. 370,346; Aug. 22. Class 42.
Office Tunisien de Standardisation, Tunis, Tunisia. Olive oil, honey, eggs, etc. 370,347; Aug. 22. Class 46.
Oneida Ltd., Sherrill and Oneida, N. Y., and Northampton, Mass. Silverplated hollow ware. 370,202; Aug. 22; Serial No. 412,056; published June 6, 1939. Class 28.
Owens-Illinois Glass Company, Toledo, Ohio. Electrical insulators. 370,320; Aug. 22; Serial No. 418,359; published June 13, 1939. Class 21.
Panther Oil & Grease Mfg. Co., doing business as The Zone Company, Fort Worth, Tex. Liquid asbestos roof covering and plastic roof cement. 370,201; Aug. 22; Serial No. 411,897; published May 30, 1939. Class 12.
Panther Oil & Grease Mfg. Co., doing business as The Zone Company, Fort Worth, Tex. Liquid asbestos roof coating and plastic roof cement. 370,377; Aug. 22. Class 12.
Papas, Christus A., doing business as Lily's Chocolate Shop, Covington, Ky. Candy. 370,178; Aug. 22; Serial No. 403,559; published June 13, 1939. Class 46.
Paragon Oil Co., Inc., Brooklyn, N. Y. Lubricating oils and greases. 370,305–6; Aug. 22; Serial Nos. 418,054–5; published June 6, 1939. Class 15.
Parents' Institute, Inc., The, New York, N. Y. Publication. 370,271; Aug. 22; Serial No. 417,586; published May 30, 1939. Class 38.
Penn-O-Tex Oil Company, Minneapolis, Minn. Gasoline, lubricating oils and greases, etc. 370,204; Aug. 22; Serial No. 412,389; published June 6, 1939. Class 15.
Penn Tobacco Company, Wilkes-Barre, Pa. Wrapping paper. 370,312; Aug. 22; Serial No. 418,209; published June 6, 1939. Class 37.
Pepper, Jas. E., & Company, Lexington, Ky., and New York, N. Y. Whiskey, gin, rum, etc. 370,331; Aug. 22; Serial No. 418,530; published June 13, 1939. Class 49.
Pervel Corporation, New York, N. Y. Cellulose material. 370,283; Aug. 22; Serial No. 417,848; published June 13, 1939. Class 50.
Pharis Tire and Rubber Company, The, Newark, Ohio. Pneumatic tires and tubes. 370,182; Aug. 22; Serial No. 405,614; published June 13, 1939. Class 35.
Plastergon Wall Board Company, Buffalo, N. Y. Insulating board. 370,353; Aug. 22. Class 12.
Précision Electro-Mécanique S. A., Delemont, Switzerland. Spark plugs, ignition distributors, ignition coils, etc. 370,199; Aug. 22; Serial No. 411,511; published June 13, 1939. Class 21.
Pressed Steel Car Company, Inc. (See Koppel Industrial Car & Equipment Company, assignor.)
Raine-Kleer Company, San Francisco, Calif. Windshield felts. 370,190; Aug. 22; Serial No. 409,820; published June 6, 1939. Class 4.
Rand Rubber Company, Inc. (See Brooklyn Shield & Rubber Co.)
Rankin, Ray J., Topeka, Kans. Cosmetics. 370,358; Aug. 22.
Roble, Edward, New York, N. Y. Printed stocks and bonds. 370,264; Aug. 22; Serial No. 417,472; published June 13, 1939. Class 38.
Rochester Germicide Company, Rochester, N. Y. Liquid soap. 370,229; Aug. 22; Serial No. 415,912; published May 30, 1939. Class 4.
Rosefield, John B., doing business as An-Fo Manufacturing Co., Oakland, Calif. Dish-washing preparation. 370,245; Aug. 22; Serial No. 416,916; published May 30, 1939. Class 4.
Rosenberger, Adolf, doing business as Miracle Patent Company, New York, N. Y. Implement for use by tailors for inserting loops of thread in fabric. 370,319; Aug. 22; Serial No. 418,312; published June 13, 1939. Class 23.
Ross Research Company, The, Copenhagen, N. Y. Antiseptic liniment. 370,376; Aug. 22. Class 6.
Ripley Vegetable Company, Inc., Mercedes, Tex. Fresh vegetables. 370,314; Aug. 22; Serial No. 418,264; published June 13, 1939. Class 46.
Rubinstein, Helena, Inc., New York, N. Y. Lipsticks and rouges. 370,356; Aug. 22. Class 6.
Safeway Stores, Inc., also doing business as Home Needs Co., Vernon and Oakland, Calif. Granulated soap. 370,265; Aug. 22; Serial No. 417,475; published May 30, 1939. Class 4.
San Pat Vegetable Co. Inc., Sinton, Tex. Fresh vegetables. 370,272; Aug. 22; Serial No. 417,588; published June 13, 1939. Class 46.
Schäfer, Friedrich, St. Gallen, Switzerland. Clips used for fastening wearing apparel. 370,174; Aug. 22; Serial No. 400,129; published June 6, 1939. Class 37.
Schuckl & Co., Inc., San Francisco, Calif. Canned fruits. 370,191; Aug. 22; Serial No. 410,094; published Mar. 14, 1939. Class 46.
Scott, Lester E., Southington, Conn., assignor to J. Small, Warren, R. I. Cleansing compound. 128,267; renewed Dec. 23, 1939.
Seagram Chemical Co. (See Natoli, Bartholomew F.)
Sears, Roebuck and Co., Chicago, Ill. Electric vacuum cleaners. 370,315; Aug. 22; Serial No. 418,267; published June 13, 1939. Class 21.
Selig Company, The, Atlanta, Ga. Insecticides. 370,374; Aug. 22. Class 6.
Sensenbrenner, A., Sons, Los Angeles, Calif. Cigars. 370,307; Aug. 22; Serial No. 418,067; published June 6, 1939. Class 17.
Sharp & Dohme, Incorporated, Philadelphia, Pa. Publication. 370,232; Aug. 22; Serial No. 416,115; published May 30, 1939. Class 38.
Small, James. (See Scott, Lester E., assignor.)
Sonora Phonograph Corporation, New York, N. Y., to S. Frankel, Chicago, Ill., successor. Talking-machine and phonograph-cabinets. 125,680; renewed June 3, 1939.
Southern States Iron Roofing Company, Savannah, Ga. Metal roofing. 370,379; Aug. 22. Class 12.
Soya-Vitamin Sales Corp., New York, N. Y. Vegetable shortening and cooking product. 370,281; Aug. 22; Serial No. 417,826; published June 13, 1939. Class 46.
Stanard-Tilton Milling Co., Alton, Ill. Flour. 370,193; Aug. 22; Serial No. 410,849; published June 13, 1939. Class 46.
Standard Ultramarine Co., The, Huntington, W. Va. Laundry blue. 128,527; renewed Jan. 6, 1940.
Steel Improvement & Forge Co., The, Cleveland, Ohio. Forged iron ring gaskets. 370,352; Aug. 22. Class 35.
Stock, Arthur J., doing business as Stock Engineering Company, Cleveland, Ohio. Coal handling equipment. 370,173; Aug. 22; Serial No. 399,902; published June 13, 1939. Class 23.
Supreme Sanctorum Ancient Mystic Order of Samaritans, Inc., Niagara Falls, N. Y. Fraternity pins, badges, buttons, etc. 370,169; Aug. 22; Serial No. 395,687; published May 30, 1939. Class 28.
Supplee-Biddle Hardware Co., Philadelphia, Pa. Clocks. 370,284; Aug. 22; Serial No. 417,853; published June 6, 1939. Class 27.
Sweet Life Food Corporation, Brooklyn, N. Y. Canned fruits, vegetables, fish, etc. 370,217; Aug. 22; Serial No. 414,513; published June 13, 1939. Class 46.

Tapo Citrus Ass'n, Santa Susana, to Tapo Citrus Association, Simi, Calif. Fresh citrus fruits. 127,887; renewed Dec. 9, 1939.
Tapo Citrus Ass'n, Santa Susana, to Tapo Citrus Association, Simi, Calif. Fresh citrus fruits. 128,536; renewed Jan. 6, 1940.
Tien Chu Ye-Tsin Manufacturing Co., Ltd., Shanghai, China. Food flavoring compound. 370,186; Aug. 22; Serial No. 408,254; published June 13, 1939. Class 46.
Timme, Otto, deceased, Estate of, doing business as E. F. Timme & Son, New York, N. Y. Textile rugs. 370,221; Aug. 22; Serial No. 415,247; published June 13, 1939. Class 42.
Todd Shipyards Corporation, New York, N. Y. Magazine. 370,235; Aug. 22; Serial No. 416,300; published May 30, 1939. Class 38.
Triplex Oil Refining Company, Inc., Long Island City, N. Y. Lubricating oils. 370,339; Aug. 22; Serial No. 418,660; published June 13, 1939. Class 15.
Truscon Steel Company. (See Hydraulic Pressed Steel Company, The, assignor.)
Turney, Burton E., Bridgeport, Conn. Dental creams. 127,694; renewed Nov. 18, 1939.
Union Asbestos & Rubber Company, Cicero, Ill. Woven insulating blankets. 370,248; Aug. 22; Serial No. 417,037; published May 30, 1939. Class 12.
Union Lumber Company, San Francisco, Calif. Grape-packing. 127,523; renewed Nov. 11, 1939.
United Frosted Foods, Inc., Chicago, Ill. Fresh frozen vegetables, fruits, berries, etc. 370,257; Aug. 22; Serial No. 417,312; published June 13, 1939. Class 46.
Universal Atlas Cement Company, Chicago, Ill. Portland cement. 370,240–1; Aug. 22; Serial Nos. 416,622–3; published May 30, 1939. Class 12.
U. S. Slicing Machine Company, La Porte, Ind. Meat tendering machines and slicing machines and parts thereof. 370,321; Aug. 22; Serial No. 418,376; published June 13, 1939. Class 23.
United States Cabinet Bed Co., Brooklyn, N. Y. Couch beds. 370,368; Aug. 22. Class 32.
Utica Cutlery Company, Utica, N. Y. Shears, scissors, razors, etc. 370,205; Aug. 22; Serial No. 412,473; published Apr. 25, 1939. Class 23.
Vayo, A. H., Harlingen, Tex. Fresh citrus fruits, and vegetables and canned orange juice, etc. 370,185; Aug. 22; Serial No. 407,397; published June 13, 1939. Class 46.
Victor Adding Machine Co., Chicago, Ill. Adding and calculating machines. 128,891; renewed Jan. 13, 1940.
Warwick Club Ginger Ale Co., Inc., West Warwick, R. I. Beverages. 370,184; Aug. 22; Serial No. 407,045; published July 19, 1938. Class 45.
Wait Associates, Inc., The, New York, N. Y. Bituminous paving mixture. 370,335; Aug. 22; Serial No. 418,611; published June 13, 1939. Class 12.
Watson Company, The, Attleboro, Mass. Flatware and hollowware. 370,313; Aug. 22; Serial No. 418,220; published June 13, 1939. Class 28.
Wellington Sears Company, Incorporated, New York, N. Y. Canvas duck. 370,324; Aug. 22; Serial No. 418,465; published June 13, 1939. Class 42.
Wholesale Petroleum Products Corp. (See Meyer, Geo. D.)
Wiesehan, John, doing business as John Wiesehan & Co., McAllen, Tex. Fresh vegetables. 370,308; Aug. 22; Serial No. 418,086; published June 13, 1939. Class 46.
Willett, Consider H., Inc., Louisville, Ky. Furniture. 370,215; Aug. 22; Serial No. 414,246; published June 13, 1939. Class 32.
Williamson, Floyd M., Detroit, Mich. Unfilled vanity cases. 370,349; Aug. 22. Class 2.
Wilson, Andrew, Inc., Springfield, N. J. Saponified liquid soap. 370,359; Aug. 22. Class 4.
Wright Aeronautical Corporation, Paterson, N. J. Internal combustion engines. 370,328; Aug. 22; Serial No. 418,592; published June 13, 1939. Class 23.
Wood Shovel and Tool Company, The, Piqua, Ohio. Shovels, spades, and scoops. 370,332; Aug. 22; Serial No. 418,547; published June 13, 1939. Class 23.
Wollman, B., & Bro., New York, N. Y. Fur skins. 370,273; Aug. 22; Serial No. 417,598; published June 6, 1939. Class 1.
Ymba Corporation. (See Aqua-Sec Corporation.)
Zaninovich, Marko, Earlimart and Delano, Calif. Fresh fruits, deciduous and citrus, and fresh grapes. 370,194; Aug. 22; Serial No. 411,066; published June 13, 1939. Class 46.
Zone Company, The. (See Panther Oil & Grease Mfg. Co.)

LIST OF REGISTRANTS OF LABELS

Beech-Nut Packing Company, Canajoharie, N. Y. Beech-Nut Luster-Mints. For Peppermints. 53,402; Aug. 22.
Brooklyn Beverage Company, Cleveland, Ohio. Clover Club. For Root Beer. 53,403; Aug. 22.
Burbank, Orion A., Los Angeles, Calif. Burbank's Orion Brand. For Boysenberries. 53,404; Aug. 22.
Butler Naval Stores Company, Inc., Butler, Ga. Bunasco. For Turpentine. 53,405; Aug. 22.
California and Hawaiian Sugar Refining Corporation, Limited, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. C and H Sugar Pure Cane Cubelets. For Sugar. 53,406; Aug. 22.
California and Hawaiian Sugar Refining Corporation, Limited, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. C and H Sugar Pure Cane Berry Granulated. For Sugar. 53,407; Aug. 22.
California and Hawaiian Sugar Refining Corporation, Limited, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. C and H Sugar Pure Cane Extra Hard Cubelets. For Sugar. 53,408; Aug. 22.
Columbian Enameling & Stamping Co., Inc., Terre Haute, Ind. Glassteel. For Developing Trays. 53,409; Aug. 22.
Hydroponic Chemical Company, Inc., New York, N. Y. Hyponex Plant Food. For Hydroponic Chemicals for Soil or Soilless Culture. 53,410–1; Aug. 22.
Karmel Konfection Kitchen. (See Ryba, Harry.)
Meadolake Foods, Inc., Sherman, Tex. Gleam Oleomargarine. For Oleomargarine. 53,412; Aug. 22.
Meadolake Foods, Inc., Sherman, Tex. Grayson Oleomargarine. For Oleomargarine. 53,413; Aug. 22.
Milwaukee Lace Paper Company, Milwaukee, Wis. Souffle Cups. For Souffle Cups. 53,414; Aug. 22.
New York Toy & Game Manufacturing Co. (See Rubin, Louis.)
Oneida Brewing Co., Inc., Utica, N. Y. Oneida. For Ale. 53,415; Aug. 22.
Oneida Brewing Co., Inc., Utica, N. Y. Oneida. For Lager Beer. 53,416; Aug. 22.
Parker Brothers, Inc., Salem, Mass. Pegity. For a Game. 53,417; Aug. 22.
Parker Brothers Inc., Salem, Mass. Contack. For a Game. 53,418–9; Aug. 22.
Restemeier, H. T., Potato Chip Co., Cleveland, Ohio. Seasoned Bubbles. For Popcorn. 53,420; Aug. 22.
Revere Camera Company, Chicago, Ill. Revere. For High Speed Safety Films for Cameras. 53,421; Aug. 22.
Rubin, Louis, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Happy Times Tables. For a Game. 53,422; Aug. 22.
Rubin, Louis, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Picture Stenciling. For Picture Stenciling Sets. 53,423; Aug. 22.
Ryba, Harry, doing business as Karmel Konfection Kitchen, Detroit, Mich. Happy Pop Corn. For Pop Corn. 53,424; Aug. 22.
Scull, William S., Company, Camden, N. J. Scull Coffee Ready to Drink. For Coffee. 53,425; Aug. 22.
United States Printing & Lithograph Company, The, Cincinnati, Ohio, and St. Charles, Ill. Vignette. For Nectarines. 53,426; Aug. 22.
Windsor-Lloyd Products, Inc., Wilmington, Del. Doubl-Tite. For Blow-Out Proof Mufflers. 53,427; Aug. 22.

LIST OF REGISTRANTS OF PRINTS

Desmond's, Los Angeles, Calif. Career Men. For Boys' Clothes and Toys. 17,539; Aug. 22.
Musebeck Shoe Company, Danville, Ill. Check These Many Inside Features Found in Health Spot Shoes Structural Engineers These Concealed Comfort Features. For Shoes. 17,540; Aug. 22.
Musebeck Shoe Company, Danville, Ill. Don't Walk Like This! Walk the Health Spot Way! Walk Like This. For Shoes. 17,541; Aug. 22.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Aggregate, Lightweight. Celotex Corporation. 370,336; Aug. 22; Serial No. 418,625; published June 13, 1939.
Coal and coke. Malcolmson Coal Company. 370,188; Aug. 22; Serial No. 409,549; published June 13, 1939.
Frit, Porcelain. American Porcelain Enamel Company. 370,242; Aug. 22; Serial No. 416,635; published June 6, 1939.
Leather. F. C. Donovan, Inc. 370,249; Aug. 22; Serial No. 417,051; published June 6, 1939.
Leather. Monarch Leather Company. 370,280; Aug. 22; Serial No. 417,811; published June 6, 1939.
Leather. Monarch Leather Company. 370,351; Aug. 22.
Packing, Grape. Union Lumber Company. 127,523; renewed Nov. 11, 1939.
Resin. Hercules Powder Company. 370,277–8; Aug. 22; Serial Nos. 417,760–1; published June 6, 1939.
Seed and other grass seeds, Lawn. E. Cahn. 370,360; Aug. 22.
Seed potatoes. Maine Potato Growers, Inc. 370,297; Aug. 22; Serial No. 418,010; published June 13, 1939.
Skins, Fur. B. Wollman & Bro. 370,273; Aug. 22; Serial No. 417,598; published June 6, 1939.
Sponges. Office Tunisien de Standardisation. 370,343; Aug. 22.
Wool fiber. L. B. Lockwood Company. 370,214; Aug. 22; Serial No. 413,809; published June 6, 1939.

CLASS 2

Boxes, Paper containers, crates, and baskets. Modern Pac, Inc. 370,179; Aug. 22; Serial No. 403,954; published May 23, 1939.
Cartons. Robert Gair Company. 370,230; Aug. 22; Serial No. 415,941; published May 16, 1939.
Cases, Unfilled vanity. F. M. Williamson. 370,349; Aug. 22.

CLASS 3

Handbags, Ladies'. Nu-Mode Bag Co. 370,354; Aug. 22.

CLASS 4

Cleaning preparation and solvent, Liquid. Curran Corporation. 370,250; Aug. 22; Serial No. 417,084; published May 30, 1939.
Cleanser and scouring compound, General household. A. Krasne, Inc. 370,363; Aug. 22.
Cleansing compound. L. E. Scott. 128,167; renewed Dec. 23, 1939.
Cream, Shaving. Colgate-Palmolive-Peet Company. 370,258; Aug. 22; Serial No. 417,329; published June 6, 1939.
Detergent, Granular synthetic. General Mills, Inc. 370,274; Aug. 22; Serial No. 417,609; published June 13, 1939.
Dish-washing preparation. J. B. Rosefield. 370,245; Aug. 22; Serial No. 416,916; published May 30, 1939.
Felts, Windshield. Raine-Kleer Company. 370,190; Aug. 22; Serial No. 409,820; published June 6, 1939.
Liquid preparations for cleaning and dressing rubber articles. General Tire & Rubber Company. 370,166; Aug. 22; Serial No. 381,612; published June 6, 1939.
Polish, Metal and silver. B. F. Natoli. 370,181; Aug. 22; Serial No. 404,863; published May 30, 1939.
Powder form, Preparation in. Mathieson Alkali Works (Inc.). 370,224; Aug. 22; Serial No. 415,518; published May 30, 1939.
Powders, Cleaning. S. Berthelsen. 370,222; Aug. 22; Serial No. 415,315; published May 30, 1939.
Preparation for preventing collection of moisture on windshields of automobiles. N. H. Ehrlich. 370,370; Aug. 22.
Soap, Saponified liquid. Andrew Wilson Inc. 370,359; Aug. 22.
Soap chips and cleanser. H. E. Butt Grocery Company. 370,247; Aug. 22; Serial No. 416,944; published May 30, 1939.
Soap, Granulated. Safeway Stores, Inc. 370,265; Aug. 22; Serial No. 417,475; published May 30, 1939.
Soap, Liquid. Rochester Germicide Company. 370,229; Aug. 22; Serial No. 415,912; published May 30, 1939.
Soaps, Toilet. H. E. Jarvis & Co., Limited. 370,322; Aug. 22; Serial No. 418,400; published June 6, 1939.
Upholstery and rug cleaner. Marina Manufacturing Company. 370,256; Aug. 22; Serial No. 417,224; published June 6, 1939.
Wash, Automobile. Karfoam Corporation. 370,275; Aug. 22; Serial No. 417,649; published June 13, 1939.

CLASS 6

Ammonia. A. Krasne, Inc. 370,364; Aug. 22.
Blue, Laundry. Standard Ultramarine Co. 128,527; renewed Jan. 6, 1940.
Cattle-dip. General Chemical Company. 126,684; renewed Sept. 30, 1939.
Chemical carbon-solvent and fuel-saver. W. F. Myers. 128,466; renewed Jan. 6, 1940.

Compounds for the extermination of pests. W. T. Jones. 370,375; Aug. 22.
Cosmetics. R. J. Rankin. 370,358; Aug. 22.
Dental creams. B. E. Turney. 127,694; renewed Nov. 18, 1939.
Depilatory product. P. Gelb. 370,366; Aug. 22.
Insecticides. Selig Company. 370,374; Aug. 22.
Liniment, Antiseptic Ross Research Company. 370,376; Aug. 22.
Lipsticks and rouges. Helena Rubinstein, Inc. 370,356; Aug. 22.
Toilet water. Bonheur Co. Inc. 128,636; renewed Jan. 13, 1940.
Tonic laxative compound. Herb Products Medicine Company. 370,231; Aug. 22; Serial No. 416,011; published June 6, 1939.
Viosterol: halibut liver oil; oil of percomorph fishes, etc. Mead Johnson & Company. 370,380; Aug. 22.

CLASS 11

Carbon transfer ribbons. G. T. Hudspeth. 370,371; Aug. 22.
Compound for drying printing ink. Interchemical Corporation. 370,211; Aug. 22; Serial No. 413,788; published Apr. 4, 1939.

CLASS 12

Board, Insulating. Plastergon Wall Board Company. 370,353; Aug. 22.
Bricks, plastics and cements, Refractory. E. J. Lavino and Company. 370,291; Aug. 22; Serial No. 417,920; published June 6, 1939.
Cement, Portland. Universal Atlas Cement Company. 370,240–1; Aug. 22; Serial Nos. 416,622–3; published May 30, 1939.
Flashing, Fibre wall. W. A. Fingles, Inc. 370,269; Aug. 22; Serial No. 417,567; published May 30, 1939.
Insulating blankets, Woven. Union Asbestos & Rubber Company. 370,248; Aug. 22; Serial No. 417,037; published May 30, 1939.
Lumber, Milled. R. J. Darnell, Incorporated. 126,521–2; renewed Sept. 16, 1939.
Material for making cast refractory bodies. E. J. Lavino and Company. 370,292; Aug. 22; Serial No. 417,923; published June 6, 1939.
Material for tap hole mixes, Refractory. E. J. Lavino and Company. 370,293; Aug. 22; Serial No. 417,924; published June 6, 1939.
Metal forms for concrete structures. Economy Forms Corporation. 370,216; Aug. 22; Serial No. 414,897; published June 6, 1939.
Paving mixture, Bituminous. Wait Associates, Inc. 370,335; Aug. 22; Serial No. 418,611; published June 13, 1939.
Plywood. I. F. Laucks, Inc. 370,192; Aug. 22; Serial No. 410,595; published June 13, 1939.
Roof coating and plastic roof cement, Liquid asbestos. Panther Oil & Grease Mfg. Co. 370,377; Aug. 22.
Roof covering and plastic roof cement, Asbestos. Panther Oil & Grease Mfg. Co. 370,201; Aug. 22; Serial No. 411,897; published May 30, 1939.
Roofing and soft plastic cement, Mineral surfaced roll. Celotex Corporation. 370,337; Aug. 22; Serial No. 418,626; published June 13, 1939.
Roofing, Metal. Southern States Iron Roofing Company. 370,379; Aug. 22.
Roofing, Roll. Celotex Corporation. 370,338; Aug. 22. Serial No. 418,627; published June 13, 1939.
Sound insulating and deadening materials. S. D. Moore. 370,311; Aug. 22; Serial No. 418,202; published June 6, 1939.
Tile, Building. Mason City Brick and Tile Company. 370,355; Aug. 22.
Webs or sheets of sheathing and insulating and damp proofing material. Certain-teed Products Corporation. 370,350; Aug. 22.

CLASS 14

Castings, Unfinished. Mackintosh-Hemphill Company. 370,225–8; Aug. 22; Serial Nos. 415,725–8; published June 13, 1939.

CLASS 15

Addative primarily consisting of oil and serving to increase penetrating qualities of lubricants and reduce effects of temperature changes. H. A. Montgomery Company. 370,172; Aug. 22; Serial No. 399,852; published Aug. 2, 1939.
Gasoline, kerosene, lubricating oils, and greases. Golden Rule Oil Company. 370,223; Aug. 22; Serial No. 415,386; published June 13, 1939.
Gasoline, lubricating oils and greases, etc. Penn-O-Tex Oil Company. 370,204; Aug. 22; Serial No. 412,389; published June 6, 1939.
Oil, Motor. G. D. Meyer. 370,365; Aug. 22.
Oils and greases, Lubricating. Cato Oil & Grease Company. 370,361; Aug. 22.

Oils and greases, Lubricating. Paragon Oil Co. 370,305–6; Aug. 22; Serial Nos. 418,054–5; published June 6, 1939.
Oils, either alone or in mixture with other oils for lubricating purposes, Olive. Office Tunisien de Standardisation. 370,344; Aug. 22.
Oils, Lubricating. Triplex Oil Refining Company. 370,339; Aug. 22; Serial No. 418,660; published June 13, 1939.
Oils, Motor. Galena Oil Corporation. 370,282; Aug. 22; Serial No. 417,837; published June 6, 1939.

CLASS 16

Paint and varnish remover. O. & R. Products, Inc. 370,334; Aug. 22; Serial No. 418,590; published June 13, 1939.
Polish, Furniture. Blue Label Manufacturing Company. 370,309; Aug. 22; Serial No. 418,090; published June 13, 1939.
Polish, Lemon oil furniture. A. Krasne, Inc. 370,362; Aug. 22.
Wall coating, Water soluble, transparent protective. Bergonize Company. 370,287; Aug. 22; Serial No. 417,902; published June 13, 1939.

CLASS 17

Cigarettes. I. M. Decker. 370,259; Aug. 22; Serial No. 417,331; published June 6, 1939.
Cigarettes and smoking tobacco. P. Lorillard Company. 370,325; Aug. 22; Serial No. 418,487; published June 13, 1939.
Cigars. A. Sensenbrenner Sons. 370,307; Aug. 22; Serial No. 418,067; published June 6, 1939.
Tobacco, Smoking. R. F. Griffith. 370,255; Aug. 22; Serial No. 417,171; published June 13, 1939.

CLASS 19

Automobile-frames. Hydraulic Pressed Steel Company. 126,169; renewed July 29, 1939.

CLASS 21

Cleaners and parts thereof, Electric vacuum. Electric Vacuum Cleaner Company. 370,198; Aug. 22; Serial No. 411,406; published June 13, 1939.
Cleaners, Electric vacuum. Sears, Roebuck and Co. 370,315; Aug. 22; Serial No. 418,267; published June 13, 1939.
Condensers or capacitors, electrolytic condensers or capacitors, etc., Electric. P. R. Mallory & Co. 370,326; Aug. 22; Serial No. 418,489; published June 13, 1939.
Inductance devices, inductive tuning devices, etc., Variable. P. R. Mallory & Co. 370,327; Aug. 22; Serial No. 418,490; published June 13, 1939.
Insulators, Electrical. Owens-Illinois Glass Company. 370,320; Aug. 22; Serial No. 418,359; published June 13, 1939.
Plugs, ignition distributors, ignition coils, etc., Spark. Précision Electro-Mécanique S. A. 370,199; Aug. 22; Serial No. 411,511; published June 13, 1939.
Switches, Electric. Allen-Bradley Company. 370,234; Aug. 22; Serial No. 416,237; published June 13, 1939.

CLASS 22

Fish lures, Artificial. J. Nelson. 370,209; Aug. 22; Serial No. 413,733; published June 13, 1939.
Fishing leaders. Lyon & Coulson, Inc. 370,196; Aug. 22; Serial No. 411,173; published June 13, 1939.
Fishing tackle and accessories. M. K. Hedge. 370,381; Aug. 22.
Toy, Paper. McLoughlin Bros., Inc. 370,333; Aug. 22; Serial No. 418,550; published June 13, 1939.

CLASS 23

Coal handling equipment. A. J. Stock. 370,173; Aug. 22; Serial No. 399,902; published June 13, 1939.
Engines, Internal combustion. Wright Aeronautical Corporation. 370,328; Aug. 22; Serial No. 418,502; published June 13, 1939.
Implement for use by tailors for inserting loops of thread in fabric. A. Rosenberger. 370,319; Aug. 22; Serial No. 418,312; published June 13, 1939.
Knives, Pocket. Imperial Knife Co. 370,200; Aug. 22; Serial No. 411,532; published June 13, 1939.
Machinery. Koppel Industrial Car & Equipment Company. 128,732; renewed Jan. 13, 1940.
Meat tendering machines and slicing machines and parts thereof. U. S. Slicing Machine Company. 370,321; Aug. 22; Serial No. 418,376; published June 13, 1939.
Mowers, Power lawn. Eclipse Lawn Mower Company. 370,329–30; Aug. 22; Serial Nos. 418,514–5; published June 13, 1939.
Razor blades, safety razor blades, scissors, etc. Ferd. Mühens, Inc. 370,183; Aug. 22; Serial No. 406,260; published Oct. 18, 1938.
Shears, scissors, razors, etc. Utica Cutlery Company. 370,205; Aug. 22; Serial No. 412,473; published Apr. 25, 1939.
Shovels, spades, and scoops. Wood Shovel and Tool Company. 370,332; Aug. 22; Serial No. 418,547; published June 13, 1939.

CLASS 26

Adding and calculating machines. Victor Adding Machine Co. 128,891; renewed Jan. 13, 1940.
Electrical measuring apparatus. Tobe Deutschmann Corporation. 370,168; Aug. 22; Serial No. 389,120; published June 13, 1939.
Spectacles, spectacle-frames, and mountings for eyeglasses. Martin-Copeland Company. 128,449; renewed Jan. 6, 1940.

CLASS 27

Clocks. Supplee-Biddle Hardware Co. 370,284; Aug. 22; Serial No. 417,853; published June 6, 1939.
Clocks and watches. General Time Instruments Corporation. 370,180; Aug. 22; Serial No. 404,645; published June 6, 1939.
Watches. Bulova Watch Company. 370,317–8; Aug. 22; Serial Nos. 418,288–9; published June 13, 1939.
Watches and clocks. S. S. Kresge Company. 370,316; Aug. 22; Serial No. 418,278; published June 13, 1939.
Watches and clocks. Longines-Wittnauer Watch Co. Inc. 370,303–4; Aug. 22; Serial Nos. 418,047–8; published June 6, 1939.
Watches and parts of watches. Fabriques Movado. 370,294; Aug. 22; Serial No. 417,959; published June 6, 1939.
Watches and watches and attached bracelets sold as a unit. Benrus Watch Co. 370,243; Aug. 22; Serial No. 416,679; published June 6, 1939.
Watches, clocks, chronometers, and dials therefor. R. L. Hunter. 370,233; Aug. 22; Serial No. 416,226; published June 6, 1939.

CLASS 28

Flatware and hollowware. Watson Company. 370,313; Aug. 22; Serial No. 418,222; published June 13, 1939.
Flatware, Silver-plated. International Silver Company. 370,323; Aug. 22; Serial No. 418,443; published June 13, 1939.
Hollowware, Silverplated. Oneida Ltd. 370,202; Aug. 22; Serial No. 412,056; published June 6, 1939.
Pins, badges, buttons, etc., Fraternity. Supreme Sanctorum Ancient Mystic Order of Samaritans, Inc. 370,169; Aug. 22; Serial No. 395,687; published May 30, 1939.
Pins, clips, bracelets, etc. Monocraft Products Co. Inc. 370,171; Aug. 22; Serial No. 398,544; published June 13, 1939.
Rings, Solid gold finger. J. Dreyfuss. 370,213; Aug. 22; Serial No. 413,808; published June 6, 1939.

CLASS 29

Brushes, Cosmetic. Melbern, Inc. 370,212; Aug. 22; Serial No. 413,793; published June 13, 1939.
Brushes, Toilet. Cosby Brush & Import Company. 370,340; Aug. 22; Serial No. 418,677; published June 13, 1939.
Rags and cloths, Wiping. F. Nusholtz. 370,286; Aug. 22; Serial No. 417,887; published June 6, 1939.
Tooth brushes. Keeling Company. 370,372; Aug. 22.

CLASS 30

Cups, saucers, jugs, etc. Office Tunisien de Standardisation. 370,345; Aug. 22.

CLASS 32

Cabinets, Talking-machine and phonograph. Sonora Phonograph Corporation. 125,680; renewed June 3, 1939.
Couch beds. United States Cabinet Bed Co. 370,368; Aug. 22.
Furniture. Consider H. Willett, Inc. 370,215; Aug. 22; Serial No. 414,246; published June 13, 1939.

CLASS 35

Gaskets, Forged iron ring. Steel Improvement & Forge Co. 370,352; Aug. 22.
Tires and tubes, Pneumatic. Pharis Tire and Rubber Company. 370,182; Aug. 22; Serial No. 405,614; published June 13, 1939.

CLASS 37

Clips used for fastening wearing apparel. F. Schäfer. 370,174; Aug. 22; Serial No. 400,129; published June 6, 1939.
Paper. Esleeck Manufacturing Co. 128,373; renewed Jan. 6, 1940.
Paper and stationery. A. M. Collins Manufacturing Company. 128,334; renewed Jan. 6, 1940.
Paper tissues particularly adapted to polishing and cleaning. Lee Polish Mfg. Co. Inc. 370,177; Aug. 22; Serial No. 403,414; published June 21, 1938.
Paper, Typewriter. Eaton Paper Corporation. 370,206; Aug. 22; Serial No. 412,853; published June 6, 1939.
Paper, Wrapping. Penn Tobacco Company. 370,312; Aug. 22; Serial No. 418,200; published June 6, 1939.
Paper, Writing. Fox River Paper Co. 128,238; renewed Dec. 30, 1939.
Papers. Esleeck Manufacturing Co. 128,686–7; renewed Jan. 13, 1940.
Pen points. C. Howard Hunt Pen Co. 370,279; Aug. 22; Serial No. 417,762; published June 6, 1939.

Record sheets, Blank. G. W. Millspaugh, Jr. 370,268; Aug. 22; Serial No. 417,500; published June 6, 1939.
Sheeting, and printed coated paper, Printed transparent. Dobeckmun Company. 370,238; Aug. 22; Serial No. 416,497; published June 13, 1939.

CLASS 38

Articles, Printed. Gardex, Inc. 370,254; Aug. 22; Serial No. 417,170; published June 6, 1939.
Cards, Greeting. Buzza Company. 370,266; Aug. 22; Serial No. 417,486; published June 6, 1939.
Cards, Greeting. Greentree Publishers, Inc. 370,208; Aug. 22; Serial No. 413,403; published June 6, 1939.
Column in a publication. Barron's Publishing Co. 370,285; Aug. 22; Serial No. 417,858; published June 13, 1939.
Decalcomania transfers. Consolidated Decalcomania Corporation. 370,301; Aug. 22; Serial No. 418,034; published May 30, 1939.
Designs for hats, shoes, gloves, etc. H. F. Hutchinson. 370,195; Aug. 22; Serial No. 412,142; published May 30, 1939.
Magazine. Association of 20–30 Clubs. 370,263; Aug. 22; Serial No. 417,432; published June 6, 1939.
Magazine. Jay Emanuel Publications, Inc. 370,289; Aug. 22; Serial No. 417,916; published June 6, 1939.
Magazine. Todd Shipyards Corporation. 370,235; Aug. 22; Serial No. 416,300; published May 30, 1939.
Maps. National Broadcasting Company. 370,295; Aug. 22; Serial No. 417,973; published June 13, 1939.
Newspaper column. S. F. Del Bono. 370,251; Aug. 22; Serial No. 417,119; published May 30, 1939.
Periodical. Andresen, Incorporated. 370,218; Aug. 22; Serial No. 414,941; published June 6, 1939.
Periodical. Hide and Leather Publishing Co. 370,252; Aug. 22; Serial No. 417,124; published May 30, 1939.
Periodical. MacNair-Dorland Company. 370,253; Aug. 22; Serial No. 417,130; published May 30, 1939.
Periodical. R. H. Macy & Co. 370,203; Aug. 22; Serial No. 412,264; published May 30, 1939.
Publication. American Institute of Mining and Metallurgical Engineers, Inc. 370,176; Aug. 22; Serial No. 403,351; published May 30, 1939.
Publication. Parents' Institute, Inc. 370,271; Aug. 22; Serial No. 417,586; published May 30, 1939.
Publication. Sharp & Dohme, Incorporated. 370,232; Aug. 22; Serial No. 416,115; published May 30, 1939.
Scripts for a series of commercial radio broadcasts. Colgate-Palmolive-Peet Company. 370,239; Aug. 22; Serial No. 416,504; published June 13, 1939.
Stocks and bonds, Printed. E. Roble. 370,264; Aug. 22; Serial No. 417,472; published June 13, 1939.
Title for a newspaper column. L. Jiranek. 370,236; Aug. 22; Serial No. 416,326; published May 30, 1939.

CLASS 39

Coats, suits, dresses, etc. Gimbel Brothers, Inc. 370,369; Aug. 22.
Dresses, coats, suits, etc. G. Fox & Co. 370,373; Aug. 22.
Overshirts, undershirts, underdrawers, etc. Bates Street Shirt Company. 122,569; renewed Aug. 27, 1938.

CLASS 40

Shields, Dress. Brooklyn Shield & Rubber Co. 128,644; renewed Jan. 13, 1940.

CLASS 42

Cotton and silk piece goods. Commercial Shirt Company. 127,363; renewed Nov. 11, 1939.
Cotton, rayon piece goods. Gernes Garment Company. 370,244; Aug. 22; Serial No. 416,849; published June 13, 1939.
Duck, Canvas. Wellington Sears Company. 370,324; Aug. 22; Serial No. 418,465; published June 13, 1939.
Fabrics in the piece, Printed textile. Folker Fabrics, Inc. 370,298–9; Aug. 22; Serial Nos. 418,023–4; published June 13, 1939.
Fabrics in the piece, Wide elastic. George C. Moore Company. 370,357; Aug. 22.
Fabrics, Woven textile. Aspinook Company. 370,348; Aug. 22.
Piece goods. American Bleached Goods Company. 370,189; Aug. 22; Serial No. 409,669; published Mar. 7, 1939.
Piece goods, Knitted and netted. Office Tunisien de Standardisation. 370,346; Aug. 22.
Rugs, Textile. Estate of Otto Timme. 370,221; Aug. 22; Serial No. 415,247; published June 13, 1939.
Sheets and pillow cases, knit crib sheets, etc., Crib. May Department Stores Company. 370,276; Aug. 22; Serial No. 417,698; published June 13, 1939.
Silk piece goods. Empire Silk Company. 125,991; renewed July 22, 1939.
Silk piece goods. Empire Silk Company. 126,530; renewed Sept. 16, 1939.

CLASS 44

Medical, surgical, and dental instruments, materials, and appliances, etc. Jenaer Glaswerk Schott & Gen. 370,164; Aug. 22; Serial No. 376,161; published June 13, 1939.
Medical, surgical, and dental instruments, materials, and appliances, etc. Jenaer Glaswerk Schott & Gen. 370,165; Aug. 22; Serial No. 378,963; published June 13, 1939.

CLASS 45

Beverages. Warwick Club Ginger Ale Co. 370,184; Aug. 22; Serial No. 407,045; published July 19, 1938.

CLASS 46

Avocados, Fresh. S. J. Davis. 370,288; Aug. 22; Serial No. 417,906; published June 13, 1939.
Buttermilk, Powdered. Collis Products Company. 128,232; renewed Dec. 30, 1939.
Candy. C. A. Papas. 370,178; Aug. 22; Serial No. 403,559; published June 13, 1939.
Canned foods. Karasik Bros. Co. 370,163; Aug. 22; Serial No. 375,708; published June 13, 1939.
Canned fruit juices. Arecibo Fruit Growers Cooperative Association. 370,310; Aug. 22; Serial No. 418,130; published June 13, 1939.
Canned fruits. Schuckl & Co. 370,191; Aug. 22; Serial No. 410,094; published Mar. 14, 1939.
Canned fruits, vegetables, fish, etc. Sweet Life Food Corporation. 370,217; Aug. 22; Serial No. 414,513; published June 13, 1939.
Canned tomatoes. Landi & Avino. 370,207; Aug. 22; Serial No. 413,073; published June 13, 1939.
Cereal, Breakfast. American Hominy Company. 126,620; renewed Sept. 30, 1939.
Coating such as chocolate, Edible. Eskimo Pie Corporation. 370,175; Aug. 22; Serial No. 403,120; published June 13, 1939.
Crackers, Biscuits, etc. J. S. Ivins' Son, Inc. 370,197; Aug. 22; Serial No. 411,336; published Feb. 21, 1939.
Extract of yeast and vegetables. Loma Linda Food Company. 370,187; Aug. 22; Serial No. 408,612; published Dec. 27, 1938.
Feed. Kasco Mills, Inc. 370,378; Aug. 22.
Flour. Stanard-Tilton Milling Co. 370,193; Aug. 22; Serial No. 410,849; published June 13, 1939.
Food, Dog. Nestra Packing Company. 370,262; Aug. 22; Serial No. 417,411; published June 13, 1939.
Food flavoring compound. Tien Chu Ve-Tsin Manufacturing Co. 370,186; Aug. 22; Serial No. 408,254; published June 13, 1939.
Fruits, and vegetables and canned orange juice, etc., Fresh citrus. A. H. Vayo. 370,185; Aug. 22; Serial No. 407,397; published June 13, 1939.
Fruits and vegetables, Fresh. J. W. Beasley & Co. 370,219; Aug. 22; Serial No. 415,102; published Apr. 4, 1939.
Fruits, deciduous and citrus, and fresh grapes, Fresh. M. Zaninovich. 370,194; Aug. 22; Serial No. 411,066; published June 13, 1939.
Fruits, Fresh citrus. Tapo Citrus Ass'n. 127,887; renewed Dec. 9, 1939.
Fruits, Fresh citrus. Tapo Citrus Ass'n. 128,536; renewed Jan. 6, 1940.
Fruits, fresh grapes, Fresh deciduous. Federal Fruit Distributors. 370,170; Aug. 22; Serial No. 396,984; published Feb. 21, 1939.
Gum and candy, Chewing. Mint Products Company. 128,462; renewed Jan. 6, 1940.
Gum, Chewing. Gum Incorporated. 370,270; Aug. 22; Serial No. 417,573; published June 13, 1939.
Macaroni. B. Filippone & Co. Inc. 370,296; Aug. 22; Serial No. 418,001; published June 13, 1939.
Milk, Fluid. Borden Company. 370,260; Aug. 22; Serial No. 417,357; published June 13, 1939.
Olive oil. J. Almeida. 370,220; Aug. 22; Serial No. 415,206; published June 13, 1939.
Olive oil. A. Catanzaro. 370,300; Aug. 22; Serial No. 418,032; published June 13, 1939.
Olive oil, honey, eggs, etc. Office Tunisien de Standardisation. 370,347; Aug. 22.
Shortening and cooking product, Vegetable. Soya-Vitamin Sales Corp. 370,281; Aug. 22; Serial No. 417,826; published June 13, 1939.
Sodium alginate. Kelco Company. 370,290; Aug. 22; Serial No. 417,918; published June 13, 1939.
Syrups. Industrial Sugars Corporation. 370,302; Aug. 22; Serial No. 418,044; published June 13, 1939.
Vegetables, Fresh. R. A. Hartness. 370,267; Aug. 22; Serial No. 417,491; published June 13, 1939.
Vegetables, Fresh. Ripley Vegetable Company. 370,314; Aug. 22; Serial No. 418,264; published June 13, 1939.
Vegetables, Fresh. San Pat Vegetable Co. Inc. 370,272; Aug. 22; Serial No. 417,588; published June 13, 1939.
Vegetables, Fresh. J. Wiesehan. 370,308; Aug. 22; Serial No. 418,086; published June 13, 1939.
Vegetables, fruits, berries, etc., Fresh frozen. United Frosted Foods, Inc. 370,257; Aug. 22; Serial No. 417,312; published June 13, 1939.

CLASS 47

Wines. Office Tunisien de Standardisation. 370,342; Aug. 22.

CLASS 48

Beer. Marathon City Brewing Company. 370,237; Aug. 22; Serial No. 416,446; published June 13, 1939.

Cereal extract for use in the brewing industry. Dehls & Stein, Inc. 370,261; Aug. 22; Serial No. 417,367; published June 13, 1939.

CLASS 49

Whiskey, gin, rum, etc. Jas. E. Pepper & Company. 370,331; Aug. 22; Serial No. 418,530; published June 13, 1939.

CLASS 50

Caps, Milk bottle. American Seal-Kap Corporation of Delaware. 370,367; Aug. 22.
Cellulose material. Pervel Corporation. 370,283; Aug. 22; Serial No. 417,848; published June 13, 1939.
Figures, Ornamental. Ivon Bear Co. 370,210; Aug. 22; Serial No. 413,755; published June 6, 1939.
Monuments and memorials, Granite. Memorials Pennanesque Inc. 370,341; Aug. 22; Serial No. 418,723; published June 13, 1939.
Monuments, Granite. Bruce's Marble and Granite Works. 370,246; Aug. 22; Serial No. 416,943; published June 6, 1939.
Piece goods treated by a special process to render the same waterproof or water spot-proof and otherwise improve the same. Aqua-Sec Corporation. 370,162; Aug. 22; Serial No. 361,596; published June 6, 1939.
Silk fabric, Waterproofed. Harte & Wyle. 370,167; Aug. 22; Serial No. 382,429; published Nov. 3, 1936.

LIST OF LABELS

Beech-Nut Luster-Mints. For Peppermints. Beech-Nut Packing Company. 53,402; Aug. 22.
Bunasco. For Turpentine. Butler Naval Stores Company. 53,405; Aug. 22.
Burbank's Orion Brand. For Boysenberries. O. A. Burbank. 53,404; Aug. 22.
C and H Sugar Pure Cane Berry Granulated. For Sugar. California and Hawaiian Sugar Refining Corporation. 53,407; Aug. 22.
C and H Sugar Pure Cane Cubelets. For Sugar. California and Hawaiian Sugar Refining Corporation. 53,406; Aug. 22.
C and H Sugar Pure Cane Extra Hard Cubelets. For Sugar. California and Hawaiian Sugar Refining Corporation. 53,408; Aug. 22.
Clover Club. For Root Beer. Brooklyn Beverage Company. 53,403; Aug. 22.
Contack. For a Game. Parker Brothers Inc. 53,418–9; Aug. 22.
Doubl-Tite. For Blow-Out Proof Mufflers. Windsor-Lloyd Products, Inc. 53,427; Aug. 22.
Glassteel. For Developing Trays. Columbian Enameling & Stamping Co. 53,409; Aug. 22.
Gleam Oleomargarine. For Oleamargarine. Mendolake Foods, Inc. 53,412; Aug. 22.
Grayson Oleomargarine. For Oleomargarine. Meadolake Foods, Inc. 53,413; Aug. 22.
Happy Times Tables. For a Game. L. Rubin. 53,422; Aug. 22.
Harry Pop Corn. For Pop Corn. H. Ryba. 53,424; Aug. 22.
Hyponex Plant Food. For Hydroponic Chemicals for Soil or Solidless Culture. Hydroponic Chemical Company. 53,410–1; Aug. 22.
Oneida. For Ale. Oneida Brewing Co. 53,415; Aug. 22.
Oneida. For Lager Beer. Oneida Brewing Co. 53,416; Aug. 22.
Pegity. For a Game. Parker Brothers, Inc. 53,417; Aug. 22.
Picture Stenciling. For Picture Stenciling Sets. L. Rubin. 53,423; Aug. 22.
Revere. For High Speed Safety Films for Cameras. Revere Camera Company. 53,421; Aug. 22.
Scull Coffee Ready to Drink. For Coffee. William S. Scull Company. 53,425; Aug. 22.
Seasoned Bubbles. For Popcorn. H. T. Rostemeier Potato Chip Co. 53,420; Aug. 22.
Souffle Cups. For Souffle Cups. Milwaukee Lace Paper Company. 53,414; Aug. 22.
Vignette. For Nectarines. United States Printing & Lithograph Company. 53,426; Aug. 22.

LIST OF PRINTS

Career Men. For Boy's Clothes and Toys. Desmond's. 17,539; Aug. 22.
Check These Many Inside Features Found in Health Spot Shoes. Structural Engineers. These Concealed Comfort Features. For Shoes. Musebeck Shoe Company. 17,540; Aug. 22.
Dont Walk Like This! Walk the Health Spot Way! Walk Like This. For Shoes. Musebeck Shoe Company. 17,541; Aug. 22.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

American Floor Surfacing Machine Company, The. (See Myers, Harry L., assignor.)

Barkelj, Jean A. H., Altadena, Calif. Internal combustion engine. Re. 21,177; Aug. 22.

Forsthoefel, Gregg F., Adrian, Mich., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Refrigeration apparatus. Re. 21,178; Aug. 22.

Lyon, George A., Allenhurst, N. J. Ornamental wheel disk. Re. 21,179; Aug. 22.

Myers, Harry L., assignor to The American Floor Surfacing Machine Company, Toledo, Ohio. Rotary disk edging machine. Re. 21,180; Aug. 22.

Rittenhouse, A. E., Co., The. (See Rittenhouse, Arthur E. and L., assignors.)

Rittenhouse, Arthur E. and L., assignors to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y. Signal device. Re. 21,181; Aug. 22.

Rittenhouse, Lloyd. (See Rittenhouse, Arthur E. and L.)

Westinghouse Electric & Manufacturing Company. (See Forsthoefel, Gregg F., assignor.)

LIST OF DESIGN PATENTEES

Allen, Grosvenor N., Oneida, and P. L'Anglais, New York, assignors to Oneida Ltd., Oneida, N. Y. Dish or similar article. 116,211; Aug. 22.

Allis-Chalmers Manufacturing Company. (See Hobbs, Verne F., assignor.)

American Optical Company. (See Cook, Roland T., assignor.)

Andrews, Archie M., deceased, Greenwich, Conn., E. U. Andrews, executrix. Shaving device. 116,332; Aug. 22.

Andrews, Eleanor U., executrix. (See Andrews, Archie M.)

Angeletti, Joseph M., New York, N. Y. Lamp shade. 116,212; Aug. 22.

Anthony, Alfred A., New York, N. Y. Combined tooth powder dispenser and tooth brush holder. 116,254; Aug. 22.

Attinger, Charles F., et al. (See Booharin, Leo Y., assignor.)

Baer, Lawrence E., Attleboro, Mass., assignor to Swank Products, Inc. Brace connector. 116,276; Aug. 22.

Bahr, Gustave F., assignor to Casco Products Corporation, Bridgeport, Conn. Grille guard. 116,255; Aug. 22.

Bahr, Gustave F., assignor to Casco Products Corporation, Bridgeport, Conn. Grille guard. 116,256; Aug. 22.

Baumhoff, Herbert G., Washington, D. C. Advertising sign. 116,213; Aug. 22.

Bechberger, Paul F., West Hempstead, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Aircraft landing wheel position indicator. 116,277; Aug. 22.

Behrens, Christian. (See Elck, H. C. J., and Behrens.)

Belmont Radio Corporation. (See Mattes, Harold C., assignor.)

Bendix Aviation Corporation. (See Bechberger, Paul F., assignor.)

Bergaud, Félicie E. A. W., Paris, France. Bottle or similar article. 116,214; Aug. 22.

Berger, Samuel L., Newark, N. J. Toy gun or similar article. 116,318; Aug. 22.

Berman, Harry, New York, N. Y. Evening gown. 116,278; Aug. 22.

Berman, Harry, New York, N. Y. Evening gown. 116,279; Aug. 22.

Berman, Harry, New York, N. Y. Evening gown. 116,280; Aug. 22.

Berman, Israel, New York, N. Y. Slipper. 116,215; Aug. 22.

Blackhawk Mfg. Co. (See Mandl, Siegmund, assignor.)

Booharin, Leo Y., San Francisco, Calif., assignor of one-fourth to W. J. Delaney, one-fourth to P. W. Wood, and one-fourth to C. F. Attinger, Clock. 116,257; Aug. 22.

Breer, Edna, New York, N. Y. Dress. 116,304; Aug. 22.

Breer, Edna, New York, N. Y. Dress. 116,305; Aug. 22.

Breer, Edna, New York, N. Y. Dress ensemble. 116,306; Aug. 22.

Brekke, Marshall T., Scarsdale, assignor to Northam Warren Corporation, New York, N. Y. Combination manicure applicator and cleaning device. 116,216; Aug. 22.

Bry, Louis, New York, N. Y. Textile fabric. 116,327; Aug. 22.

Butrim, Simon P., Long Beach, Calif. Game board. 116,217; Aug. 22.

Cleveland Tractor Company, The. (See Heaslet, James G., assignor.)

Casco Products Corporation. (See Bahr, Gustave F., assignor.)

Chalfin, Harry, New York, N. Y. Decorative nail. 116,218; Aug. 22.

Chambers, Joseph A., Memphis, Tenn. Building. 116,219; Aug. 22.

Chase, Hamilton C., Sierra Madre, Calif., assignor to H. H. Peterson, Arlington, Va. Rotary floor treating machine. 116,220; Aug. 22.

Cohn, Rosenberger, Inc. (See Katz, Adolph, assignor.)

Cook, Roland T., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 116,258; Aug. 22.

Cook, Roland T., assignor to American Optical Company, Southbridge, Mass. Ophthalmic mounting. 116,259; Aug. 22.

Corduroy Rubber Company. (See Murphy, Roy C., assignor.)

Dearling, Harry, assignor to Metalfield Incorporated, New York, N. Y. Combined salt shaker, pepper shaker and stand therefor. 116,260; Aug. 22.

Delaney, William J., et al. (See Booharin, Leo Y., assignor.)

Dillon, David, New York, N. Y. Console bar cellarette. 116,281; Aug. 22.

Dillon, David, New York, N. Y. Bridge chair. 116,282; Aug. 22.

Dreyfuss, Henry, New York, N. Y., assignor to The Hoover Company, North Canton, Ohio. Casing for suction cleaners or similar articles. 116,221; Aug. 22.

Elck, Harvey C. J., Sheboygan Falls, and C. Behrens, Sheboygan, Wis. Sprayer or similar article. 116,222; Aug. 22.

Engel, Alice, New York, N. Y. Dress ensemble. 116,283; Aug. 22.

Epstein, Louis J., Jersey City, N. J. Slipper. 116,223; Aug. 22.

Erickson, C. E. Company. (See Erickson, Ernest R., assignor.)

Erickson, Ernest R., assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa. Display rack or similar article. 116,224; Aug. 22.

Faber, Peter J., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Amplifier or the like. 116,261; Aug. 22.

Faber, Peter J., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Amplifier or the like. 116,262; Aug. 22.

Ferguson, Murd M., Detroit, Mich. Plaque. 116,263; Aug. 22.

Fuld, Horace A., New York, N. Y. Ashtray or similar article. 116,225; Aug. 22.

Garten, William, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del. Wastebasket or similar container. 116,226; Aug. 22.

Garten, William, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del. Cake box. 116,227; Aug. 22.

Garten, William, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del. Bread box. 116,228; Aug. 22.

Garten, William, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del. Bread box. 116,229; Aug. 22.

Geiger, George. (See Van Doren, H., and Geiger.)

General Electric Company. (See Petzold, William B., assignor.)

Gibson, John W., assignor to J. V. Kelly, Kansas City, Mo. Toy. 116,230; Aug. 22.

Glover, Eloise H., Sanford, N. C. Dress. 116,284; Aug. 22.

Haon, Ruth, New York, N. Y. Dress ensemble. 116,285; Aug. 22.

Heaslet, James G., Hudson, assignor to The Cleveland Tractor Company, Cleveland, Ohio. Crawler tractor. 116,319; Aug. 22.
Heaslet, James G., Hudson, assignor to The Cleveland Tractor Company, Cleveland, Ohio. Wheel tractor. 116,320; Aug. 22.
Heidt, Alexander J., Woodhaven, N. Y. Electrician's test set. 116,329; Aug. 22.
Heller, Henry R., assignor to Winter & Co., New York, N. Y. Piano. 116,264; Aug. 22.
Heller, Henry R., assignor to Winter & Co., New York, N. Y. Piano music rack. 116,265; Aug. 22.
Heywood Wakefield Company. (See Shurcliff, Sarah P., assignor.)
Hillyard Chemical Company. (See Posch, Rudolph A., assignor.)
Hobbs, Verne F., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor. 116,307; Aug. 22.
Holzinger, William H., Chicago, Ill. Chair. 116,231; Aug. 22.
Hoover Company, The. (See Dreyfuss, Henry, assignor.)
Huber, William C., Chicago, Ill. Bumper guard. 116,308; Aug. 22.
Huxter, Walker L. C., Richmond, Va. Trailer. 116,321; Aug. 22.
Huxter, Walker L. C., Richmond, Va. Trailer. 116,322; Aug. 22.
Huxter, Walker L. C., Richmond, Va. Trailer. 116,323; Aug. 22.
Hydraulic Development Corporation. (See Van Doren, H., and Geiger, assignors.)
Ingwer, Carl H., and C. E. Wright, Elyria, Ohio. Die head. 116,266; Aug. 22.
International Silver Company. (See Stark, Frederick W., assignor.)
Kaplan, David, New York, N. Y. Coat. 116,286; Aug. 22.
Kaplan, David, New York, N. Y. Coat. 116,287; Aug. 22.
Katz, Adolph, New York, N. Y. Brooch or similar article. 116,233; Aug. 22.
Katz, Adolph, assignor to Cohn Rosenberger, Inc., New York, N. Y. Bracelet. 116,288; Aug. 22.
Katz, Adolph, assignor to Cohn Rosenberger, Inc., New York, N. Y. Brooch or similar article. 116,289; Aug. 22.
Kay, John, La Porte, Ind. Combination mirror, match box holder and ashtray. 116,267; Aug. 22.
Kelly, Jesse V. (See Gibson, John W., assignor.)
Kushner, Jacob J., New York, N. Y. Dress. 116,309; Aug. 22.
Lacy, Franklin R., Jr., Chicago, Ill. Fudge warmer or similar article. 116,234; Aug. 22.
Lampl, Walter, New York, N. Y. Charm or the like. 116,324; Aug. 22.
L'Anglais, Pascal. (See Allen, G. N., and L'Anglais.)
Leech, Aubrey B., Los Angeles, Calif. Animated decorative lamp. 116,268; Aug. 22.
Leff, Jacques H., New York, N. Y. Pin clip. 116,290; Aug. 22.
Lehrfeld, William H., Freeport, N. Y. Jeweler's combination tool. 116,235; Aug. 22.
Lentheric Incorporated. (See McIntosh, Frank, assignor.)
Love, Kit C., Muskogee, Okla. Bottle. 116,236; Aug. 22.
Manchester, Eugene L., North Attleboro, assignor to R. H. Tucker, Brockton, Mass. Finger ring. 116,237; Aug. 22.
Mandl, Siegmund, assignor to Blackhawk Mfg. Co., Milwaukee, Wis. Arbor press. 116,269; Aug. 22.
Mattes, Harold C., assignor to Belmont Radio Corporation, Chicago, Ill. Portable radio receiver. 116,270; Aug. 22.
McIntosh, Frank, assignor to Lentheric Incorporated, New York, N. Y. Vanity case. 116,232; Aug. 22.
McIntosh, Frank, assignor to Lentheric Incorporated, New York, N. Y. Box. 116,271; Aug. 22.
McKeen, Margaret, Los Angeles, Calif. Combined manicure bowl and brush. 116,272; Aug. 22.
Metalfield Incorporated. (See Dearling, Harry, assignor.)
Montgomery Ward & Co. (See Faber, Peter J., assignor.)
Moore, Theodore W., Riverside, Conn. Combined apple slicer and corer. 116,273; Aug. 22.
Munson, Garry W., East Orange, N. J. Cushion cap for cash register control keys. 116,238; Aug. 22.
Murphy, Roy C., assignor to Corduroy Rubber Company, Grand Rapids, Mich. Tire. 116,310; Aug. 22.
Nathan, Samuel, Allentown, Pa. Handbag. 116,274; Aug. 22.
Northam Warren Corporation. (See Brekke, Marshall T., assignor.)
Oneida Ltd. (See Allen, G. N., and L'Anglais, assignors.)
Owens-Illinois Can Company. (See Garten, William, assignor.)
Pauly, Nicholas J., Dubuque, Iowa. Baseball schedule card. 116,239; Aug. 22.
Peters and Russell, Inc. (See Russell, Linus E., assignor.)
Peterson, Hubert H. (See Chase, Hamilton C., assignor.)
Petzold, William B., Pittsfield, Mass., assignor to General Electric Company. Combined manicure stand and containers therefor. 116,240; Aug. 22.
Philippe, Alfred, New York, N. Y. Pin clip. 116,291; Aug. 22.
Philippe, Alfred, New York, N. Y. Pin clip. 116,292; Aug. 22.
Philippe, Alfred, New York, N. Y. Pin clip. 116,293; Aug. 22.
Philippe, Alfred, New York, N. Y. Pin clip. 116,294; Aug. 22.
Philippe, Alfred, New York, N. Y. Pin clip. 116,295; Aug. 22.
Philippe, Alfred, New York, N. Y. Pin clip. 116,296; Aug. 22.
Philippe, Alfred, New York, N. Y. Pin clip. 116,297; Aug. 22.
Posch, Rudolph A., near Lees Summit, assignor to Hillyard Chemical Company, St. Joseph, Mo. Combined floor scrubbing and polishing machine. 116,330; Aug. 22.
Poster, Sidney J., New York, N. Y. Dress. 116,311; Aug. 22.
Price, David W., New York, N. Y. Dress. 116,312; Aug. 22.
Price, David W., New York, N. Y. Dress. 116,331; Aug. 22.
Radtke, Adelbert C., Forest Park, assignor to Sears, Roebuck and Co., Chicago, Ill. Compressor casing. 116,241; Aug. 22.
Rithner, Henry, Wellsburg, W. Va. Combined ashtray and candle holder or similar article. 116,242; Aug. 22.
Rizsak, Lillian G., New York, N. Y. Dress ensemble. 116,313; Aug. 22.
Roberts, John J., Louisville, Ky. Electric traffic timing signal. 116,314; Aug. 22.
Roher, Harry, New York, N. Y. Dress ensemble. 116,315; Aug. 22.
Rosenfeld, Milton G., St. Louis, Mo. Coat. 116,298; Aug. 22.
Russell, Linus E., assignor to Peters and Russell, Inc., Springfield, Ohio. Exhaust pipe extension. 116,299; Aug. 22.
Russell, Linus E., assignor to Peters and Russell, Inc., Springfield, Ohio. Exhaust pipe extension. 116,300; Aug. 22.
Russell, Linus E., assignor to Peters and Russell, Inc., Springfield, Ohio. Exhaust pipe extension. 116,301; Aug. 22.
Ryan, Owen W., New York, N. Y. Game counter. 116,325; Aug. 22.
Schnitzer, Louis M., New York, N. Y. Metal tray. 116,243; Aug. 22.
Sears Roebuck and Co. (See Radtke, Adelbert C., assignor.)
Shurcliff, Sarah P., New York, N. Y., assignor to Heywood Wakefield Company, Gardner, Mass. Bedstead. 116,244; Aug. 22.
Shurcliff, Sarah P., New York, N. Y., assignor to Heywood-Wakefield Company, Gardner, Mass. Chest. 116,245; Aug. 22.
Silverman, Charles, Providence, R. I. Monogrammed necktie fastener or similar article. 116,275; Aug. 22.
Silverman, Max, New York, N. Y. Flexible neckpiece. 116,246; Aug. 22.
Stark, Frederick W., assignor to International Silver Company, Meriden, Conn. Coffeepot or similar article. 116,248; Aug. 22.
Stark, Frederick W., assignor to International Silver Company, Meriden, Conn. Sugar bowl or similar article. 116,249; Aug. 22.
Stark, Frederick W., assignor to International Silver Company, Meriden, Conn. Coffeepot or similar article. 116,250; Aug. 22.
Stark, Frederick W., assignor to International Silver Company, Meriden, Conn. Sugar bowl or similar article. 116,251; Aug. 22.
Summers, Otto M., Glasgow, Ky. Dwelling. 116,247; Aug. 22.
Swank Products, Inc. (See Baer, Lawrence E., assignor.)
Tillman, Abe, New York, N. Y. Textile fabric. 116,328; Aug. 22.
Tucker, Ruel H. (See Manchester, Eugene L., assignor.)
Unschuld, Henry, Chicago, Ill. Weighing scale. 116,302; Aug. 22.
Van Doren, Harold, Toledo, and G. Geiger, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del. Radial pump unit. 116,252; Aug. 22.
Van Doren, Harold, Toledo, and G. Geiger, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del. Radial pump. 116,253; Aug. 22.
Wells, Alvin W., Chicago, assignor of one-half to J. W. Wells, Decatur, Ill. Loud speaker cabinet. 116,316; Aug. 22.
Wells, Jewell W. (See Wells, Alvin W., assignor.)
Welsh, Albert D., Ladue, Mo. Baby swing. 116,317; Aug. 22.
West, Peter S. L., Brooklyn, N. Y. Aeroplane. 116,326; Aug. 22.
Winter & Co. (See Heller, Henry R., assignor.)
Wood, Perry W., et al. (See Booharin, Leo Y., assignor.)
Wright, Clyde E. (See Ingwer, C. H., and Wright.)
Zahn, Philip, New York, N. Y. Dress. 116,303; Aug. 22.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 22D DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abbotts, Leonard, assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn. Bottle cap. 2,170,045; Aug. 22.
Ackerman-Blaesser-Fezzey, Inc. (See Ackerman, Edward L., assignor.)
Ackerman, Edward L., assignor to Ackerman-Blaesser-Fezzey, Inc., Detroit, Mich. Sash operating mechanism. 2,170,440; Aug. 22.
Ackermann, Franz. (See Graenacher, C., Ackermann, and Bruengger.)
Adler, Herman G., Detroit, assignor, by mesne assignments, to King-Seeley Corporation, Ann Arbor, Mich. Governor. 2,170,744; Aug. 22.
Adler, Robert, St. Paul, Minn. Flume and ditch lining. 2,170,671; Aug. 22.
Agerell, William C., and A. C. Mueller, assignors to Pines Winterfront Company, Chicago, Ill. Radiator and radiator shutter assemby. 2,170,524; Aug. 22.
Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Lubricating device. 2,170,228; Aug. 22.
Aikman, Burton S., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Train brake mechanism. 2,170,229; Aug. 22.
Aktiebolaget Gerh. Arelius Mekaniska Verkstad. (See Örström, Gustaf, assignor.)
Aktiengesellschaft Brown Boveri & Cie. (See Hürlimann, Max, assignor.)
Albrecht, Christian A., Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y. Typographical composing machine and matrix therefor. 2,170,001; Aug. 22.
Albright, Raymond W., assignor to American Anode Incorporated, Akron, Ohio. Making rubber strips. 2,170,441; Aug. 22.
Alderman, Fred, Petersborough, England. Clock-driven indicator. 2,170,743; Aug. 22.
Aldridge, Blair G. (See Gard, E. W., and Aldridge.)
Alexander, Donald F. (See Candor, R. R., and Alexander.)
Alford, Andrew, San Mateo, Calif., assignor to Mackay Radio & Telegraph Company, New York, N. Y. Aperiodic transformer. 2,170,626; Aug. 22.
Allen, Albert J., Brooklyn, N. Y., assignor to Metropolitan Device Corporation. Hinge construction. 2,170,614; Aug. 22.
Allen, Morris C., Mercedes, and R. G. Shelley, Donna, Tex. Elastic pipe joint. 2,170,181; Aug. 22.
Allis-Chalmers Manufacturing Company. (See Larson, Harry W., assignor.)
Amberg, Walter E., assignor to Universal Paper Products Company, Chicago, Ill. Dispenser. 2,170,105; Aug. 22.
American Anode Incorporated. (See Albright, Raymond W., assignor.)
American Bitumuls Company. (See McKesson, Claude L., assignor.)
American Coil Spring Company. (See Gumprich, William, assignor.)
American Cutting Alloys, Inc. (See Schwarzkopf, Paul, assignor.)
American Cyanamid & Chemical Corporation. (See Brush, John G., assignor.)
American Electric Fusion Corporation. (See von Henke, Edmund J., assignor.)
American Laundry Machinery Company, The. (See Neckel, Edmund N., assignor.)
American Maize Products Company. (See Morgan, Willard L., assignor.)
American Maize-Products Company. (See Walsh, J. F., and Morgan, assignors.)
American Radiator & Standard Sanitary Corporation. (See Reynolds, Frank C., assignor.)
American Rolling Mill Company, The. (See Sendzimir, Tadeusz, assignor.)
American Sales Book Company. (See Hall, George W., assignor.)
American Sales Book Company. (See Pringle, W. A., and Manuel, assignors.)
American Seating Company. (See Nordmark, Henry P., assignor.)
American Security Company, The. (See Forbes, Lewis J.-B., assignor.)
American Steel and Wire Company of New Jersey, The. (See Morrison, J. J., and Howe, assignors.)
American Telephone and Telegraph Company. (See Singer, Fred J., assignor.)
American Thermos Bottle Company, The. (See Payson-A. H., and Duevel, assignors.)
American Viscose Corporation. (See Glover, W. H., and Heaven, assignors.)
Andersen, Niels Y., Kenmore, assignor to Remington Rand Inc., Buffalo, N. Y. Caster. 2,170,257; Aug. 22.
Anderson, Augustus L., Brooklyn, N. Y. Discharge valve for containers. 2,170,395; Aug. 22.
Anderson, Edward R., Van Horn, Tex. Railroad grade crossing signal. 2,170,467; Aug. 22.
Anderson, Frithiof B., Elberon, and A. W. Clement, Summit, N. J., and I. G. Wilson, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Negative feedback amplifier. 2,170,046; Aug. 22.
Anderson, Jasper E., Scotia, N. Y., assignor to General Electric Company. Apparatus for abrading coatings from rods. 2,170,672; Aug. 22.
Anderson, Jasper E., Scotia, N. Y., assignor to General Electric Company. Wire-feeding device. 2,170,673; Aug. 22.
Anthony, Alfred A., New York, N. Y. Toothpowder dispensing device. 2,170,182; Aug. 22.
Anthony, Elijah, Jamestown, R. I. Loose-leaf binders. 2,170,106; Aug. 22.
Appleton Electric Company. (See Tornblom, Nils A., assignor.)
Arado Flugzeugwerke Gesellschaft mit beschränkter Haftung. (See Blume, Walter, assignor.)
Armbrust Chain Company. (See Hess, William F., assignor.)
Armstrong, Thomas, assignor to Western Paper Converting Company, Salem, Oreg. Dispensing package. 2,170,230; Aug. 22.
Arvanitis, James A., Mason City, Iowa. Meat cutter. 2,170,512; Aug. 22.
Asbeck, Gustav, Dusseldorf, Germany. Apparatus for reducing tubes. 2,170,513; Aug. 22.
Ash, Charles S., Milford, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Wheel construction. 2,170,647; Aug. 22.
Atlantic Coast Fisheries Company, The. (See Raynolds, James A., Jr., assignor.)
Atlas Track Corporation. (See Cordeiro, Joseph, assignor.)
Augenblick, Jack, Atlantic City, N. J., assignor to Sports Equipment Mfg. Corp. Fishing line leader. 2,170,788; Aug. 22.
Auslander, Henry, Brooklyn, N. Y. Curtain rod threading device. 2,170,674; Aug. 22.
Autographic Register Company. (See Brenn, Carl W., assignor.)
Automatic Draft and Stove Co. (See Montague, Charles D., assignor.)
Automatic Druckmaschinenfabrik, Dr. W. Hinniger und Söhne. (See Kaufmann, Kurt, assignor.)
Automatic Telephone & Electric Company. (See Renshaw, Alfred P. B., assignor.)
Ayers, Herbert, El Paso, Tex. Circuit breaker. 2,170,584; Aug. 22.
Ayral, Jean B., Paris, France, assignor to General Electric Company. Light projecting device. 2,170,675; Aug. 22.
Babcock & Wilcox Company, The. (See Bailey, Ervin G., assignor.)
Babcock & Wilcox Company, The. (See Bailey, E. G., assignor.)
Cassidy, Hardgrove, and Ebbets, assignors.)
Babcock & Wilcox Company, The. (See Hardgrove, Ralph M., assignor.)
Babcock & Wilcox Company, The. (See Koolstra, Lambert, assignor.)
Bacon, Daniel R. (See Gersbach, H. A., and Bacon.)
Baier, Hermann, assignor to Deutsche Gold und Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany. Bleaching tobacco. 2,170,107; Aug. 22.
Baier, Otto, and A. Katsch, Berlin, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electric discharge tube. 2,170,648; Aug. 22.
Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J. Vapor generator. 2,170,342; Aug. 22.
Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J. Vapor generator. 2,170,343; Aug. 22.
Bailey, Ervin G., Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J. Forced flow vapor generator. 2,170,349; Aug. 22.
Bailey, Ervin G., Easton, Pa., and P. R. Cassidy, Short Hills, R. M. Hardgrove, Westfield, and G. D. Ebbets, Kenilworth, assignors to The Babcock & Wilcox Company, Newark, N. J. Vapor generator. 2,170,345; Aug. 22.
Bailey Meter Company. (See Dickey, Paul S., assignor.)

Bailey Meter Company. (See Junkins, Raymond D., assignor.)
Bakelite Corporation. (See Hanson, Norman D., assignor.)
Baker, John B., assignor to The Timken Roller Bearing Company, Canton, Ohio. Outer raceway member for roller bearings and mounting same. 2,170,492; Aug. 22.
Baldwin-Southwark Corporation. (See Peters, Orville S., assignor.)
Falfe, George T., assignor to Detroit Gasket & Mfg. Co., Detroit, Mich. Gasket. 2,170,363; Aug. 22.
Ball, Frances A., New York, N. Y. Receptacle. 2,170,525; Aug. 22.
Baltimore Paper Box Company, The. (See Ferguson, George K. S., assignor.)
Banbury, Fernley H., Woodmont, assignor to Farrel-Birmingham Company, Inc., Derby, Conn. Temperature-controlling means for rubber mill pans or the like. 2,170,396; Aug. 22.
Banholzer, Harry F., Chicago, Ill. Twitch. 2,170,442; Aug. 22.
Banker, Oscar H., assignors to New Products Corporation, Chicago, Ill. Variable speed transmission. 2,170,649; Aug. 22.
Barbarou, Marius J.-B., Neuilly-sur-Seine, France. Mounting of cylinders in motors. 2,170,443; Aug. 22.
Barbarou, Marius J.-B., Neuilly-sur-Seine, France. Two-speed step-up gear with hydraulic control. 2,170,444; Aug. 22.
Barber, Howard M., Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I. Web-perfecting rotary printing press. 2,170,526; Aug. 22.
Bartholet, Paul, Uzwil, Switzerland. Scoop elevator. 2,170,231; Aug. 22.
Barton, Larry J., assignor to Clorax Chemical Co., Oakland, Calif. Stabilized hydrochlorite solution and method therefor. 2,170,108; Aug. 22.
Bartosek, Henry, Sacramento, Calif. Knife. 2,170,514; Aug. 22.
Bauer, John E., Muncie, Ind., assignor to Owens-Illinois Glass Company, Producing glass building blocks. 2,170,602; Aug. 22.
Baugh & Sons Company. (See Wilson, S. N., and Waggaman, assignors.)
Baughman, George W. (See Farmer, C. C., and Baughman.)
Beard, Lawrence O., Lancaster, Pa. Abrading tool. 2,170,585; Aug. 22.
Beck, James. (See Steele, C. E., and Beck.)
Bedford, Burnice D. (See Edwards, M. A., and Bedford.)
Beers, Joseph L., Bloomfield, N. J., and H. J. Strausberger, assignors to Julius Kayser & Co., Brooklyn, N. Y. Making hosiery. 2,170,615; Aug. 22.
Bell Telephone Laboratories, Incorporated. (See Anderson, F. B., Clement, and Wilson, assignors.)
Bell Telephone Laboratories, Incorporated. (See Bjornson, B. G., and Bryant, assignors.)
Bell Telephone Laboratories, Incorporated. (See Bouton, G. M., and Schumacher, assignors.)
Bell Telephone Laboratories, Incorporated. (See Clarke, Walter J., assignor.)
Bell Telephone Laboratories, Incorporated. (See Goddard, Myron C., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mason, Warren P., assignor.)
Bell Telephone Laboratories, Incorporated. (See Mott, Edward E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Peterson, Liss C., assignor.)
Belmont Radio Corporation. (See Dunn, William L., assignor.)
Beloit Iron Works. (See Berry, Earl E., assignor.)
Benjamin, W. R., Co. (See Benjamin, Walter R., assignor.)
Benjamin, Walter R., assignor to W. R. Benjamin Co., Granite City, Ill. Toy construction elements. 2,170,771; Aug. 22.
Bennett, Ralph S., Pittsfield, Mass., assignor to General Electric Company. Electric cut-out. 2,170,676; Aug. 22
Benson, Gwyn, Shawinigan Falls, Quebec, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada. Making acetic anhydride. 2,170,002; Aug. 22.
Berg, Louis B., assignor to Borg-Warner Corporation, Chicago, Ill. Refuse receptacle. 2,170,677; Aug. 22.
Berghoefer, Victor A. (See Rice, C. J., and Berghoefer.)
Bergstein, Edna M., trustee. (See Bergstein, Robert M., assignor.)
Bergstein, Robert M., Cincinnati, Ohio, assignor to E. M. Bergstein and himself, as trustees. Packaging structure. 2,170,364; Aug. 22.
Bergstrom, Albert L. (See Klamp, P., and Bergstrom.)
Berhenke, Luther F. (See Coleman, G. H., and Berhenke.)
Berry, Earl E., assignor to Beloit Iron Works, Beloit, Wis. Forming wire support for paper machines. 2,170,109; Aug. 22.
Berry, F. E., Jr., & Co. (See Thompson, Richard C., assignor.)
Berryman, Harry H., Chicago, Ill. Flexible coupling for shafts. 2,170,627; Aug. 22.
Blanco, Henry, Baltimore, Md., assignor, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio. Window. 2,170,603; Aug. 22.
Bjornson, Bjorn G., New York, N. Y., and N. W. Bryant, Lyndhurst, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Signal transmission system. 2,170,397; Aug. 22.
Blackmon, Ethel, assignor of one-half to H. W. Stevens, Gulfport, Miss. Automatic magnetic tack hammer. 2,170,468; Aug. 22.
Blanchard, Joseph E., assignor to Watson-Williams Manufacturing Company, Millbury, Mass. Harness frame. 2,170,542; Aug. 22.
Bland, James R. (See Kells, L. M., Kern, and Bland.)
Blue, Robert D. (See Mathers, F. C., and Blue.)
Blume, Walter, assignor of one-half to Arado Flugzeugwerke Gesellschaft mit beschränkter Haftung, Brandenburg-on-the-Havel, Germany. Engine arrangement in aircraft. 2,170,003; Aug. 22.
Booth, Earl C., assignor to Noblitt Sparks Industries, Inc., Columbus, Ind. Radiator. 2,169,993; Aug. 22.
Booth, William N., Detroit, Mich. Supplemental protective closure. 2,170,110; Aug. 22.
Borch, Niels S., Copenhagen, Denmark, assignor to F. L. Smidth & Company, New York, N. Y. Method and apparatus for handling powdered material. 2,170,258; Aug. 22.
Borden Company, The. (See Taylor, B. E., and McClatchie, assignors.)
Borg-Warner Corporation. (See Berg, Louis B., assignor.)
Borofski, Heinrich, Frankfort-on-the-Main, assignor of one-half to the firm Mettmanner Britannia-Warenfabrik W. Seibel, Mettmann, Rhineland, Germany. Introduction of graphitic carbon into light metals or light metal alloys. 2,170,259; Aug. 22.
Boudreau, Willis J., assignor of one-third to H. C. Whitmore and one-third to Robert G. Peterson, Minneapolis, Minn. Line tightener. 2,170,292; Aug. 22.
Boughton, Roger C., San Francisco, Calif. Pipe joint. 2,170,004; Aug. 22.
Bourne, Raleed B., West Hartford, assignor to The Maxim Silencer Company, Hartford, Conn. Spark arrester. 2,170,704; Aug. 22.
Bouton, George M., Lynbrook, N. Y., and E. E. Schumacher, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Alloy. 2,170,650; Aug. 22.
Bower, George D., Columbia Heights, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning system. 2,170,232; Aug. 22.
Bracke, Robert F., Chicago, Ill. Fuel feeding system. 2,170,651; Aug. 22.
Bramblett, Ardrey M., Brooklyn, N. Y., assignor to Mergenthaler Linotype Company. Slug casting machine. 2,170,005; Aug. 22.
Brandt, Robert J., Los Angeles, Calif. Base construction. 2,170,006; Aug. 22.
Breeze Corporation. (See Gorshkoff, Alexis S., assignor.)
Brenn, Carl W., Montclair, assignor to Autographic Register Company, Hoboken, N. J. Manifolding. 2,169,994; Aug. 22.
Brennan, Martin M., Chicago, Ill. Appliance for protecting portions of a shoe during cleaning or polishing. 2,170,652; Aug. 22.
Breth, Ferdinand W., Petrolia, Pa., assignor to L. Sonneborn Sons, Inc. Refining lubricating oils. 2,170,628; Aug. 22.
Brewer, John G., Piedmont, Mo. Liquid container. 2,170,007; Aug. 22.
Brewer-Titchner Corporation, The. (See Wenn, Floyd D., assignor.)
Brewer, William, Upper Edmonton, London, assignor to Sparklets Limited, Westminster, England. Siphon for aerated liquids. 2,170,705; Aug. 22.
Breyley, Edward W., Cleveland, Ohio. Friction car stop. 2,170,008; Aug. 22.
Bridgeport Metal Goods Manufacturing Company, The. (See Abbotts, Leonard, assignor.)
Bristol Company, The. (See Faust, Frederick A., assignor.)
Bristol Company, The. (See Mabey, Arthur R., assignor.)
Bronstein, Jesse B., Jr., assignor to Trojan Powder Company, Allentown, Pa. Colloidal composition. 2,170,629; Aug. 22.
Bruengger, Heinrich. (See Graenacher, C., Ackermann, and Bruengger.)
Brush, John F., Westfield, N. J., assignor to American Cyanamid & Chemical Corporation, New York, N. Y. Heat treatment. 2,170,745; Aug. 22.
Brush, Oscar F., et al. (See Haywood, John F., assignor.)
Bruson, Herman A., assignor to Röhn & Haas Company, Philadelphia, Pa. Manufacture of amines. 2,170,111; Aug. 22.
Bryant, Newton W. (See Bjornson, B. G., and Bryant.)
Bryce, James W., Bloomfield, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y. Key punch multiplying machine. 2,170,543; Aug. 22.
Bryce, James W., Bloomfield, N. J., assignor to International Business Machines Corporation, New York, N. Y. Multiplying machine and impulse emitter therefor. 2,170,544; Aug. 22.
Buffalo Brake Beam Comany. (See Busch, Charles R., assignor.)

Bullerjahn, Karl, Berlin-Neukolln, Germany, assignor to The National Cash Register Company, Dayton, Ohio. Cash register and accounting machine. 2,170,183; Aug. 22.
Burnet, Samuel F., Webster Groves, Mo., assignor to Laclede-Christy Clay Products Company. Wall structure. 2,170,233; Aug. 22.
Burton, Edgar F., Kansas City, Kans., assignor of one-third to E. J. Marcus, Kansas City, Kans., and J. H. Meik, Kansas City, Mo., one-fifth to J. F. Riley, four and two-thirds per cent to T. J. Riley, four and two-thirds per cent to A. C. Riley, four and two-thirds per cent to H. B. Riley, four and one-half per cent to J. P. Jonz, four and one-half per cent to G. E. Ford, and two per cent to G. C. McDermett, Wichita Falls, and five per cent to F. C. Key, Wichita County, Tex. Replaceable shaft surfacing bearing elements. 2,170,545; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Construction of car trucks and working parts thereof. 2,170,112; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Trussed brake beam. 2,170,113; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Brake beam strut. 2,170,114; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Brake head. 2,170,115; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Combination brake beam and head. 2,170,116; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Making brake beams. 2,170,117; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Car truck side frame. 2,170,118; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Car truck side frame. 2,170,119; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Brake beam. 2,170,120; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Brake beam. 2,170,121; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Brake beam. 2,170,122; Aug. 22.
Busch, Charles R., Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y. Car truck side frame. 2,170,123; Aug. 22.
Busch, Robert W., Maywood, Ill., assignor of one-third to F. E. Hummel and one-third to C. T. Patock. Comb cleaner. 2,170,772; Aug. 22.
Buschbeck, Werner, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Electron discharge tube for ultra high frequency systems. 2,170,653; Aug. 22.
Bush Manufacturing Company, The. (See Fagan, Joseph F., assignor.)
Bussmann, Henry T., St. Louis, Mo. Electric contact member. 2,170,317; Aug. 22.
Butenandt, Adolf, Berlin-Lichterfelde, and W. Logemann, Berlin-Charlottenburg, Germany, assignors to Schering Aktiengesellschaft. Compounds of the androstane and pregnane series and producing the same. 2,170,124; Aug. 22.
Cady, Walter G., Middletown, Conn. Piezoelectric crystal device. 2,170,318; Aug. 22.
Cailloux, John F., and P. M. Rea, Oklahoma City, Okla. Rocker arm. 2,170,184; Aug. 22.
Caldwell, Benjamin F., assignor to D. I. Caldwell, San Dimas, Calif. Convertible tool. 2,170,125; Aug. 22.
Caldwell, Dorothy I. (See Caldwell, Benjamin F., assignor.)
Caldwell, Harry F. (See Turhill, H. B., and Caldwell.)
Caldwell, Samuel P., Hamden, assignor to The Greist Manufacturing Company, New Haven, Conn. Device for entitling films. 2,170,398; Aug. 22.
Callaghan, John P., Newark, assignor to Paul Gabriel Corporation, Harrison, N. J. Brick grab. 2,170,706; Aug. 22.
Candor, Robert R., and D. F. Alexander, assignors to General Motors Corporation, Dayton, Ohio. Generating system. 2,170,546; Aug. 22.
Canfield, Charles H., Syracuse, N. Y. Spring wire clip. 2,170,586; Aug. 22.
Cantwell, Robert W., Los Angeles, Calif. Coat hanger. 2,170,319; Aug. 22.
Carley, Leonard R., Watertown, assignor to The Patent Button Company, Waterbury, Conn. Tack button. 2,170,234; Aug. 22.
Carley, Leonard R., Watertown, assignor to The Patent Button Company, Waterbury, Conn. Tack button. 2,170,235; Aug. 22.
Carpenter, Marion S., Nutley, N. J., assignor to Givaudan-Delawanna, Inc., New York, N. Y. Menthyl anthranilate and preparing same. 2,170,185; Aug. 22.
Carter, Clarence F., Danville, Ill. Method of and apparatus for filling containers with powder or other comminuted material. 2,170,469; Aug. 22.
Carter, Lionel A., Webster Groves, Mo. Setting and indicating device for change speed transmissions. 2,170,293; Aug. 22.
Cassidy, Perry R. (See Bailey, E. G., Cassidy, Hardgrove, and Ebbets.)
Catland, Alfred C., Alhambra, assignor to Globe Oil Tools Company, Los Nietos, Calif. Rock bit. 2,170,320; Aug. 22.
Catron, Ty, Dallas, Tex., assignor to Shakespeare Company, Kalamazoo, Mich. Hand guard for fishing reels. 2,170,186; Aug. 22.
Central Paper Box Company. (See Lentine, J. H., and Lolgman, assignors.)
Cernohouz, James B., assignor to R. R. Robertson, Chicago, Ill. Screen focus compensator. 2,170,630; Aug. 22.
Certain-Teed Products Corporation. (See MacNutt, Arthur D., assignor.)
Chambon Corporation. (See Grupe, William F., assignor.)
Chapel, Charles A., El Reno, Okla. Necktie form. 2,170,707; Aug. 22.
Chappell, Bert C., Kansas City, Mo. Animal trap. 2,170,470; Aug. 22.
Charroin, Frank B., Coronado, Calif. Anti-back-siphon flushing apparatus. 2,170,321; Aug. 22.
Chicago Railway Equipment Company. (See Le Beau, Ernest A., assignor.)
Christ, Bruno, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of tertiary aliphatic amines. 2,170,746; Aug. 22.
Christian, Joseph D., San Francisco, Calif. Pressure extraction vessel shell. 2,170,547; Aug. 22.
Christian, Joseph D., San Francisco, Calif. Speed reduction unit. 2,170,548; Aug. 22.
Cilag, Chemiches Industrielles Laboratorium A. G. (See Naegeli, Carl, assignor.)
Cincinnati Grinders Incorporated. (See Ernst, H., and Dall, assignors.)
Cincinnati Grinders Incorporated. (See Herfurth, Charles, assignor.)
Cincinnati Grinders Incorporated. (See Trible, W., and Heckman, assignors.)
Cincinnati Milling Machine Co., The. (See Martellotti, Mario E., assignor.)
Cincinnati Milling Machine Co., The. (See Martellotti, M., and Ernst, assignors.)
Clamp Nail Company. (See Putnam, Mabel C., assignor.)
Clapper, Harland R., assignor to The Timken Roller Bearing Company, Canton, Ohio. Apparatus for determining bearing play. 2,170,493; Aug. 22.
Clark, Frank M., Pittsfield, Mass., assignor to General Electric Company. Electric capacitor. 2,170,782; Aug. 22.
Clark, Lester L., Akron, Ohio. Pumping apparatus. 2,170,549; Aug. 22.
Clarke, Hans T., New York, and C. J. Malm, assignors to Eastman Kodak Company, Rochester, N. Y. Preparation of cellulose ethers. 2,170,009; Aug. 22.
Clarke, Rollin R. (See Peterson, F. H., and Clarke.)
Clarke, Walter J., Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Lacquer. 2,170,187; Aug. 22.
Clemence, Elliott I., Millburn, N. J. Electric lamp husk. 2,170,399; Aug. 22.
Clement, Andrew W. (See Anderson, F. B., Clement, and Wilson.)
Cleophas, Clara M., Beloit, Wis. Shirt blocking device. 2,170,126; Aug. 22.
Clorax Chemical Co. (See Barton, Larry J., assignor.)
Cobl, Walter H., New York, N. Y. Collapsible core. 2,170,188; Aug. 22.
Cogsdill, Stuart A., assignor to Cogsdill Twist Drill Company, Inc., Detroit, Mich. Bearingizing tool. 2,170,631; Aug. 22.
Cogsdill Twist Drill Company. (See Cogsdill, Stuart A., assignor.)
Cohoe, Wallace P., Riverdale-on-Hudson, N. Y. Apparatus for treating materials. 2,170,678; Aug. 22.
Colbert, Clarence L., Elizabeth, N. J., assignor, by mesne assignments, to Empire Trust Company, New York, N. Y., trustee. Roofing granule and method of making. 2,170,445; Aug. 22.
Coleman, Gerald H., and L. F. Berhenke, assignors to The Dow Chemical Company, Midland, Mich. Liquid dielectric compositions. 2,169,995; Aug. 22.
Columbia Radiator Company. (See Watt, William H., assignor.)
Conklin, James W. (See Latimer, C. W., Finch, Conklin, and Goldstine.)
Conner, Guy O., assignor to Wheeling Steel Corporation, Wheeling W. Va. Tap attaching device for containers. 2,170,010; Aug. 22.
Conner, Guy O., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Making a tap attaching device for containers. 2,170,011; Aug. 22.
Constant, Maurice, Scobey, Mont. Apparatus for mineral separation. 2,170,069; Aug. 22.
Conway, John C. (See Hanson, Frank O., assignor.)
Conwell, Scott R. (See Edwards, W. C., and Conwell.)
Cordeiro, Joseph, New Bedford, assignor to Atlas Tack Corporation, Fairhaven, Mass. Eyelet. 2,170,708; Aug. 22.

Corel, Victoria G., San Leandro, Calif. Liquid applicator. 2,170,550; Aug. 22.

Cornwell, Ralph T. K., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Composition of matter. 2,170,632; Aug. 22.

Cottrell, C. B., & Sons Company. (See Barber, Howard M., assignor.)

Cousart, Eddie C., assignor of forty per cent to C. A. Luck and thirty per cent to C. S. Cowan and N. T. Williams, Danville, Va. Brick cleaning machine. 2,170,783; Aug. 22.

Cowan, C. S., et al. (See Cousart, Eddie C., assignor.)

Creesy, George B., Baltimore, Md., and F. A. Prahl, Toledo, Ohio, assignors to Owens-Illinois Can Company. Waste receptacle. 2,170,604; Aug. 22.

Crocker, Ivan B., Garnett, Kans., and D. C. Worthy, Oklahoma City, Okla. Fluid lift. 2,170,587; Aug. 22.

Cromelin, John S., Chicago, Ill. Cigarette package. 2,170,322; Aug. 22.

Cronk, Oscar L., Oswego, N. Y. Vehicle wheel truck. 2,170,012; Aug. 22.

Cruzan, Charles C., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y. Ring binder. 2,170,260; Aug. 22.

Culbertson, Joe W., West Hollywood, Calif., assignor to Technical Oil Tool Corporation, Ltd. Centering device for drift recording instruments. 2,170,527; Aug. 22.

Cummings, William W., Jr., Windermere, Fla. Humidifier. 2,170,551; Aug. 22.

Cuneo Eastern Press, Inc., The. (See Faeber, Harry W., assignor.)

Cushman Chuck Company, The. (See Sloan, H. E., and Highberg, assignors.)

Cutrow, Leo, Los Angeles, Calif. Portable water color box. 2,170,709; Aug. 22.

Dahlenius, Walter R. A., and J. L. Nyström, Stockholm, Sweden. Machine for slicing salmon. 2,170,425; Aug. 22.

Dall, Albert H. (See Ernst, H., and Dall.)

Dalmer, Otto, and F. von Werder, Darmstadt, Germany, assignors to Merck & Co., Inc., Rahway, N. J. N-lower-dialkyl-coumarin-3-carbonylamides and producing them. 2,170,127; Aug. 22.

Dalton, Harold R., Teaneck, N. J., assignor to Postal Telegraph-Cable Company (New York), New York, N. Y. Adhesive-coated paper. 2,170,654; Aug. 22.

Dalzell, Clifton H., Paris, Ky. Seed sacker. 2,170,710; Aug. 22.

Dannöhl, Walter, and H. Neumann, Berlin-Siemensstadt, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Permanent magnet of copper-cobalt-nickel alloy. 2,170,047; Aug. 22.

Davidson, William D., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif. Draw works having dual drive. 2,170,565; Aug. 22.

Davis, Frank M., Jr., et al. (See Spikes, Robert L., assignor.)

De Lamater, Clarence D., San Diego, Calif. Drip catching attachment for umbrellas. 2,170,236; Aug. 22.

De La Mater, Robert G., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va. Brake mechanism for motor vehicles. 2,170,128; Aug. 22.

Delamere Company. (See Huppert, William, assignor.)

Deleray, Bert R., Los Angeles, Calif. Automatic toaster. 2,170,070; Aug. 22.

De Long, Darrol F. (See Hailes, W. D., and De Long.)

De Long, Darrol F., assignor to General Railway Signal Company, Rochester, N. Y. Centralized traffic control system for railroads. 2,170,129; Aug. 22.

Denneen, Francis S., Cleveland, and W. C. Dunn, Shaker Heights, assignors to The Ohio Crankshaft Company, Cleveland, Ohio. Method of and apparatus for hardening a metal article. 2,170,130; Aug. 22.

De Porter, Charles W., Dayton, Ohio. Attachment for automobiles. 2,170,552; Aug. 22.

Despatch Shops, Inc. (See West, L. S., Steuber, and Powers, assignors.)

Detroit Gasket & Mfg. Co. (See Balfe, George T., assignor.)

Detroit Hydrostatic Brake Corporation. (See Sauzedde, Claude, assignor.)

Detwiler, Angus E., Miami, Fla. Shelf. 2,170,013; Aug. 22

Deutsche Gold und Silber Scheideanstalt vormals Roessler. (See Baier, Hermann, assignor.)

Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft. (See Hamann, Christel, assignor.)

Dickerson, Bert A., assignor to Faries Manufacturing Company, Decatur, Ill. Lock for telescopic standards. 2,170,679; Aug. 22.

Dickey, Paul S., Cleveland, Ohio, assignor to Bailey Meter Company. Control system. 2,170,344; Aug. 22.

Dickey, Paul S., Cleveland, Ohio, assignor to Bailey Meter Company. Control system. 2,170,346; Aug. 22.

Dickey, Paul S., Cleveland, Ohio, assignor to Bailey Meter Company. Control system. 2,170,347; Aug. 22.

Dickey, Paul S., Cleveland, Ohio, assignor to Bailey Meter Company. Control system. 2,170,348; Aug. 22.

Dimond, Lloyd E., Chicago, Ill., assignor to Wilson & Co. Apparatus for gauging wetted material. 2,170,747; Aug. 22.

Dionne, John C., Somerville, Mass., and H. W. Keevil, Highland Park, Ill. Sensitometer. 2,170,515; Aug. 22.

Doane, Leroy C., assignor to The Miller Company, Meriden, Conn. Lighting fixture. 2,170,189; Aug. 22

Dolphi, James J. (See Hintze, H., and Dolphi.)

Dominguez, Julio C., Tocopilla, Chile. Rotary internal combustion motor. 2,170,366; Aug. 22.

Donovan, John F., East Cleveland, and J. Flaws, Jr., Cleveland Heights, Ohio, assignors to General Electric Company. Apparatus for flattening lead wires 2,170,784; Aug. 22.

Dopyera, Rudolph, Los Angeles, Calif. Electrical stringed musical instrument. 2,170,294; Aug. 22.

Doremus, Cornelius W., Washington, D. C. Shielded telephone plug. 2,170,131; Aug. 22.

Douglas, Fredric E., assignor to Draper Corporation, Hopedale, Mass. Bobbin. 2,170,773; Aug. 22.

Douglas, Gordon, Stayner, Ontario, Canada. Self-closing cap for collapsible tubes. 2,170,588; Aug. 22.

Dow Chemical Company, The. (See Coleman, G. H., and Berhenke, assignors.)

Draper Corporation. (See Douglas, Fredric E., assignor.)

Draper Corporation. (See Lanier, Henry J., assignor.)

Dreyfus, Henry, London, England. Organic materials. 2,170,190; Aug. 22.

Drissner, Alfred E., assignor to The National Acme Company, Cleveland, Ohio. Stock stop. 2,170,633; Aug. 22.

Druyvesteyn, Mari J. (See Reerink, E. H., and Druyvesteyn.)

Duevel, Charles O., Jr. (See Payson, A. H., and Duevel.)

Duncan Electric Manufacturing Company. (See Green, Stanley S., assignor.)

Duncan, James F., Waterbury, Conn. Valve operating mechanism. 2,170,516; Aug. 22.

Dunham, George W., Westport, Conn., assignor to General Electric Company. Shoe for rotary troners. 2,170,680; Aug. 22.

Dunn, William C. (See Denneen, F. S., and Dunn.)

Dunn, William L., assignor to Belmont Radio Corporation, Chicago, Ill. Radio speaker control structure and circuit for use with automatic tuning devices for radio receivers. 2,170,261; Aug. 22.

Dunning, Orville M., Glen Ridge, and C. T. Jacobs, New Providence Township, Union County, assignors to Thomas A. Edison, Incorporated, West Orange, N. J. Coupled circuit system. 2,170,048; Aug. 22.

Du Pont, E. I., de Nemours & Company. (See Frey W., and Schwalenstöcker, assignors.)

Du Pont, E. I., de Nemours & Company. (See Griggs, Ernest L., Jr., assignor.)

Du Pont, E. I., de Nemours & Company. (See Heckert, Winfield W., assignor.)

Du Pont, E. I., de Nemours & Company. (See Howell, Edward T., assignor.)

Du Pont, E. I., de Nemours & Company. (See Hucks, Robert T., assignor.)

Du Pont, E. I., de Nemours & Company. (See Lee, H. R., and Klein, assignors.)

Du Pont, E. I., de Nemours & Company. (See Stecher, J. L., and Parker, assignors.)

Du Pont, E. I., de Nemours & Company. (See Williams, Ira, assignor.)

E. A. Laboratories, Inc. (See Meyerhoefer, Carl E., assignor.)

Eagle Pencil Company. (See Hanle, Benjamin W., assignor.)

Eastman, Harlan J., Dallas, Tex. Whip-stock bottom. 2,170,284; Aug. 22.

Eastman Kodak Company. (See Clarke, H. T., and Malm, assignors.)

Eastman Kodak Company. (See Fordyce, C. R., and Hiatt, assignors.)

Eastman Kodak Company. (See Malm, C. J., and Fordyce, assignors.)

Eaton, Malcolm W., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill. Snap switch. 2,170,748; Aug. 22.

Ebbets, George D. (See Bailey, E. G., Cassidy, Hardgrove, and Ebbets.)

Echevarria, José D., Madrid, Spain. Grease box for rolling stock for railways and tramways. 2,170,471; Aug. 22.

Edison, Thomas A., Incorporated. (See Dunning, O. M., and Jacobs, assignors.)

Edwards and Company. (See Edwards, Robert S., assignor.)

Edwards and Company. (See Ruth, Edward S., assignor.)

Edwards, Martin A., Schenectady, N. Y., assignor to General Electric Company. Electric discharge apparatus. 2,170,446; Aug. 22.

Edwards, Martin A., Schenectady, N. Y., assignor to General Electric Company. Electric discharge apparatus. 2,170,447; Aug. 22.

Edwards, Martin A., Schenectady, N. Y., assignor to General Electric Company. Electric discharge apparatus. 2,170,448; Aug. 22.

Edwards, Martin A., Schenectady, N. Y., assignor to General Electric Company. Electric discharge apparatus. 2,170,449; Aug. 22.

Edwards, Martin A., and B. D. Bedford, Schenectady, N. Y., assignor to General Electric Company. Illuminating circuits. 2,170,450; Aug. 22.

Edwards, O. M., Company, The. (See Stephenson, Samuel S., assignor.)

Edwards, Robert S., New Rochelle, N. Y., assignor to Edwards and Company, Inc., Norwalk, Conn. Push-button switch construction. 2,169,996; Aug. 22.

Edwards, William C., and S. R. Conwell, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich. Selector switch. 2,170,711; Aug. 22.

Eggleston, Oscar P., Theresa, N. Y. Nonfreeze tip-up. 2,170,000; Aug. 22.

Eichel, Frank A., assignor to Tom Lamb Company, Inc., New York, N. Y. Furniture. 2,170,400; Aug. 22.

Eilers, Frederick B., Rochester, N. Y. Portable foot spraying apparatus. 2,170,553; Aug. 22.

Eitzen, August D., Rockville Centre, assignor to News Projection Corporation, New York, N. Y. Message transmitting system. 2,170,132; Aug. 22.

Eitzen, August D., Rockville Centre, assignor to News Projection Corporation, New York, N. Y. Broad-tape illuminator. 2,170,133; Aug. 22.

Elliott, Harold E., Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Needle-lubricating mechanism. 2,170,554; Aug. 22.

Ellis, Charles A., Natick, assignor to Maseco Corporation, Hopkinton, Mass. Door operating device. 2,170,014; Aug. 22.

Ellison, Leslie J., London, England, assignor to International Standard Electric Corporation, New York, N. Y. Sulphide rectifier. 2,170,634; Aug. 22.

Emberson, Frederick, Penge, London, England, assignor to The National Cash Register Company, Dayton, Ohio. Cash register. 2,170,517; Aug. 22.

Emigholz, Lawrence F., assignor to Union Steel Products Company, Albion Mich. Combined reinforce element and support. 2,170,635; Aug. 22.

Empire Metal Cap Co. (See Merolle, Augustus L., assignor.)

Empire Trust Company. (See Colbert, Clarence L., assignor.)

Emsco, Derrick & Equipment Company. (See Davidson, William D., assignor.)

Erickson, Andrew J., Beebe, Wash. Tree and plant protector. 2,170,589; Aug. 22.

Ernst, Hans. (See Martellotti, M., and Ernst.

Ernst, Hans, Cincinnati, and A. H. Dall, Silverton, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Grinding machine. 2,170,494; Aug. 22.

Estep, Arthur C., assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio. Ingot mold plug. 2,170,555; Aug. 22.

Eustis, J. P., Manufacturing Company. (See Spencer, Allard W., assignor.)

Fahlan, Constantine F., Brookfield, assignor to The Non-Mercurie Carrot Company, Danbury, Conn. Carroting fur and the like and composition therefor. 1,169,997; Aug. 22.

Faeber, Harry W., assignor to The Cuneo Eastern Press, Inc., Philadelphia, Pa. Apparatus for processing books. 2,170,049; Aug. 22.

Fagan, Joseph F., West Hartford, assignor to The Bush Manufacturing Company, Hartford, Conn. Making radiators. 2,170,774; Aug. 22.

Faries Manufacturing Company. (See Dickerson, Bert A., assignor.)

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Strainer cleaning device. 2,170,082; Aug. 22.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Hand brake release control. 2,170,238; Aug. 22.

Farmer, Clyde C., Pittsburgh, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,170,239; Aug. 22.

Farmer, Clyde C., Pittsburgh, and G. W. Baugham, Edgewood, assignors to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,170,237; Aug. 22.

Farr, George F. (See Hayes, G., assignor.)

Farrel-Birmingham Company. (See Banbury, Fernley H., assignor.)

Farrel-Birmingham Company. (See Kitchen, Harry E., assignor.)

Fasce, Egi V., and J. J. Owen, Baton Rouge, La., assignors to Standard Oil Development Company. Preparing alkyl sulphates. 2,170,401; Aug. 22.

Fattinger, Hans, Stadl, at St. Ruprecht on the Raab, Styria, Austria. Stock food and producing the same. 2,170,713; Aug. 22.

Faust, Frederick A., assignor to The Bristol Company, Waterbury, Conn. Automatic temperature control system. 2,170,402; Aug. 22.

Federal Telegraph Company. (See Romander, Hugo, assignor.)

Ferguson, George K. S., assignor to The Baltimore Paper Box Company, Baltimore, Md. Reinforced receptacle. 2,170,714; Aug. 22.

Ferris, William D., assignor to Frantz Manufacturing Co., Sterling, Ill. Garage door construction. 2,170,295; Aug. 22.

Ferry, Joseph D., deceased, Harrisburg, Pa.; S. O. Ferry, executrix. Food impelling mechanism. 2,170,775; Aug. 22.

Ferry, Sylvia O., executrix. (See Ferry, J. D., assignor.)

Fidelity Machine Company. (See Ingouf, Robert J. A., assignor.)

Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung. (See Klipfmüller, Karl, assignor.)

Fiedler, Karl. (See Helm, M. L., and Fiedler.)

Finch, James L. (See Latimer, C. W., Finch, Conklin, and Goldstine.)

Finlayson, Frank E., Pittsfield, Mass., assignor to General Electric Company. Glue pot. 2,170,681; Aug. 22.

Fisch, Willi. (See Widmer, G., and Fisch.)

Fisher, Gerald M., Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Gear lubricant. 2,170,495; Aug. 22.

Fisher, Harry L., Leonia, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y. Treatment of rubber. 2,170,191; Aug. 22.

Fisher, Lyman C. (See Frank, W. H., and Fisher.)

Fisher, Lyman C., and W. H. Frank, Detroit, Mich. Detachable collector. 2,170,285; Aug. 22.

Fitch, Ellery R., Irwin, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Master controller device. 2,170,240; Aug. 22.

Fitch, Jason A., Youngstown, Ohio. Attaching nuts to metal plates or similar articles or members. 2,170,472; Aug. 22

Fitch, Jason A., Youngstown, Ohio. Apparatus for and process of making nuts. 2,170,473; Aug. 22.

Flaws, John, Jr. (See Donovan, J. F., and Flaws.)

Flick, Zeno E., Jackson, Mich. Bearing seal. 2,170,134; Aug. 22.

Flygare, Carl G., assignor to Norton Company, Worcester, Mass. Grinding wheel truing apparatus. 2,170,605; Aug. 22.

Flygare, Carl G., assignor to Norton Company, Worcester, Mass. Grinding machine. 2,170,606; Aug. 22.

Forbes, Lewis J.-B., St. Helens, England, assignor to The American Securit Company. Furnace for heating glass plates for tempering. 2,170,749; Aug. 22.

Ford, Geo. E., et al. (See Burton, E. F., assignor.)

Ford, Henry, assignor to Ford Motor Company, Dearborn, Mich. Internal combustion engine. 2,170,015; Aug. 22.

Ford Motor Company. (See Ford, Henry, assignor.)

Fordyce, Charles R. (See Malm, C. J., and Fordyce.)

Fordyce, Charles R., and G. D. Hiatt, assignors to Eastman Kodak Company, Rochester, N. Y. Mixed esters of cellulose containing unsaturated acid radicals. 2,170,016; Aug. 22.

Forstner Chain Corporation. (See Schwarz, Joachim, assignor.)

Fosgood Corporation. (See Graham, Philip J., assignor.)

Foster, Alfred, New York, N. Y., assignor to Royal Battery Corporation, New Brunswick, N. J. Handle or lifting device for storage batteries. 2,170,750; Aug. 22.

Fourness, Charles A., Appleton, assignor to Paper Patents Company, Neenah, Wis. Laminated crepe cellulosic product. 2,170,655; Aug. 22.

Frank, William H. (See Fisher, L. C., and Frank.)

Frank, William H., Detroit, Mich. Electrical distribution system. 2,170,298; Aug. 22.

Frank, William H., Detroit, Mich., Continuous outlet construction. 2,170,299; Aug. 22.

Frank, William H., Detroit, Mich. Continuous outlet construction. 2,170,300; Aug. 22.

Frank, William H., and L. C. Fisher, Detroit, Mich. Trolley or collector. 2,170,297; Aug. 22.

Frank, William H., and W. A. Harper, Detroit, Mich. Trolley or collector. 2,170,296; Aug. 22.

Frantz Manufacturing Co. (See Ferris, William D., assignor.)

Frech, Theodore W., and E. A. Howard, Cleveland Heights, and K. D. Scott, Cleveland, Ohio, assignors to General Electric Company. Vehicle headlighting system. 2,170,682; Aug. 22.

Freeling, Albert L. (See Sarver, Emmett F., assignor.)

Frey, Frederick E., Bartlesville, Okla., assignor to Phillips Petroleum Company. Converting normally gaseous hydrocarbons into gasoline. 2,170,367; Aug. 22.

Frey, Walter, Freiburg, Breisgau, and H. Schwalenstöcker, Korbach, near Cassel, Germany, assignor to the firm E. I. du Pont de Nemours & Co., Wilmington, Del. Converting soluble into insoluble cellulose derivatives. 2,170,017; Aug. 22.

Freydberg Bros., Inc. (See Hawkins, W. H., and Selditz, assignors.)

Friederich, Ernst, Berlin-Charlottenburg, and W. Meyer, Birkenwerder, near Berlin, Germany, assignors to General Electric Company. Electric incandescent lamp. 2,170,683; Aug. 2.

Frost, Earl R., assignor to The National Machinery Company, Tiffin Ohio. Process and apparatus for making rivets. 2,170,556; Aug. 22.

Furrer, Emery C., Chicago, Ill. Apparatus for separating gases. 2,170,071; Aug. 22.

Gabriel, Paul, Corporation. (See Callaghan, John P., assignor.)

Gabrilovitch, Leonide, Paris, France. Method and device for reducing and increasing audio frequencies 2,170,751; Aug. 22.

Gadd, William E., East Orange, N. J., assignor to Poor & Company, New York, N. Y. Frozen rail joint. 2,170,018; Aug. 22.

Gagnier, George E. (See Place, Bion C., assignor.)

Gandtner, Valentin, Falkensee, Kreis Osthavelland, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Arrangement for shielding amplifiers. 2,170,050; Aug. 22.

Gard, Earle W., Palos Verdes Estates, and B. G. Aldridge, assignors to Union Oil Company of California, Los Angeles, Calif. Process and apparatus for interacting fluids. 2,170,0496; Aug. 22.
Gardiner, Laurence E., Stratford, N. J. Relay. 2,170,135; Aug. 22.
Garton, Clarence E., Sheboygan, Wis. Child's toy. 2,170,616; Aug. 22.
Gavin, Edward M., Dayton, Ohio. Reserve fuel control system. 2,170,136; Aug. 22.
Gaylor, Peter J. (See Wiezevich, P. J.)
Gaylord Container Corporation. (See Williams, B. M. and Thompson, assignors.)
Gaylord, Thomas S., Rochester, N. Y. Welding. 2,170,019; Aug. 22.
Gelb, Lawrence M. (See Siefert, O., and Pfennig, assignors.)
General Door Company. (See Greegor, Ralph H., assignor.)
General Electric Company. (See Anderson, Jasper E., assignor.)
General Electric Company. (See Ayral, Jean B., assignor.)
General Electric Company. (See Bennett, Ralph S., assignor.)
General Electric Company. (See Clark, Frank M., assignor.)
General Electric Company. (See Donovan, J. F., and Flaws, assignors.)
General Electric Company. (See Dunham, George W., assignor.)
General Electric Company. (See Edwards, Martin A., assignor.)
General Electric Company. (See Edwards, M. A., and Bedford, assignors.)
General Electric Company. (See Finlayson, Frank E., assignor.)
General Electric Company. (See Frech, T. W., Howard, and Scott, assignors.)
General Electric Company. (See Friederich, E., and Meyer, assignors.)
General Electric Company. (See Hahn, William C., assignor.)
General Electric Company. (See Jones, Benjamin W., assignor.)
General Electric Company. (See Lord, Harold W., assignor.)
General Electric Company. (See Navias, Louis, assignor.)
General Electric Company. (See Perry, Charles L., assignor.)
General Electric Company. (See Pike, Otis W., assignor.)
General Electric Company. (See Smith, Sidney R., Jr., assignor.)
General Electric Company. (See Wardwell, George W., Jr., assignor.)
General Motors Corporation. (See Candor, R. R., and Alexander, assignors.)
General Motors Corporation. (See Edwards, W. C., and Conwell, assignors.)
General Railway Signal Company. (See De Long, Darrol F., assignor.)
General Railway Signal Company. (See Hailes, W. D., and De Long, assignors.)
Genesee Valley Trust Company, executor. (See West, Lewis S.)
Gentilini, Augusto, Rome, Italy. Illuminated advertising apparatus with a scintillating effect. 2,170,368; Aug. 22.
George Automatic Train Control Company. (See George, Clayton B., assignor.)
George, Clayton B., assignor to George Automatic Train Control Company, Seattle, Wash. Train control mechanism. 2,170,137; Aug. 22.
Gerlach, Manfred, Aken-on-the-Elbe, assignor to Junkers Flugzeug- und-Motorenwerke Aktiengesellschaft, Dessau, Germany. Internal combustion engine. 2,170,020; Aug. 22.
Gersbach, Herbert A., Flushing, and D. R. Bacon, Craigsville, assignors to Percy Manufacturing Company, Inc., New York, N. Y. Turnstile. 2,170,192; Aug. 22.
Gibbons, John P., Chicago, Ill. Vacuum mop cleaner. 2,170,528; Aug. 22.
Gille, Willis H., St. Paul, assignor to Minneapolis Honeywell Regulator Company, Minneapolis, Minn. Fuel combustion control system. 2,170,497; Aug. 22.
Givandan-Delawanna, Inc. (See Carpenter, Marion S., assignor.)
Gleaner Harvester Corporation. (See Pierson, Torvald N., assignor.)
Glenn, Marlow Silver Spring, Md. Footwear traction device. 2,170,138; Aug. 22.
Globe Oil Tools Company. (See Catland, Alfred C., assignor.)
Glover, Walter H., Leamington, and G. S. Heaven, Coventry, England, assignors, by mesne assignments, to American Viscose Corporation. Filament of rayon from viscose. 2,170,752; Aug. 22.
Goddard, Myron C., Garden City, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Telephone system. 2,170,403; Aug. 22.
Godsey, Frank W., Jr., North Adams, Mass., assignor to The Safety Car Heating & Lighting Company. Electric regulation. 2,170,193; Aug. 22.
Goepel, Arthur H., assignor to Scovill Manufacturing Company, Waterbury, Conn. Flush tank utility shelf. 2,170,776; Aug. 22.
Goldstine, Hallan E. (See Latimer, C. W., Finch, Conklin, and Goldstine.)
Goodale, Uel R., New Suffold, N. Y. Gas burner. 2,170,139; Aug. 22.
Goodrich, B. F., Company, The. (See Mathes, Roger A., assignor.)
Goodrich, B. F., Company, The. (See Semon, Waldo L., assignor.)
Goodwin, Melville J., Needham, Mass., assignor to The Pfaudler Co., Rochester, N. Y. Dye wheel. 2,170,712; Aug. 22.
Gorshkoff, Alexis S., New York, N. Y., assignor to Breeze Corporation, Inc., Newark, N. J. Rivet setting device. 2,170,323; Aug. 22.
Graenacher, Charles, Basel, F. Ackermann, Binningen, near Basel, and H. Bruengger, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Derivatives of dyestuffs containing hydroxyl groups and making same. 2,170,262; Aug. 22.
Graenacher, Charles, and J. Meyer, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Benzimidazoles and making same. 2,170,474; Aug. 22.
Graham, Philip J., assignor to Fosgood Corporation, Leominster, Mass. Hair fastener. 2,170,636; Aug. 22.
Grant, John, Los Angeles, Calif. Wet reaming tool. 2,170,451; Aug. 22.
Grant, John, Los Angeles, Calif. Expansible reamer. 2,170,452; Aug. 22.
Grantham, Charles R., Washington, D. C. Switch and operator therefor. 2,170,715; Aug. 22.
Gray Processes Corporation, The. (See Youker, Malcolm P., assignor.)
Greaker, Josef, Skien, Norway. Artillery type wheel for vehicles. 2,170,404; Aug. 22.
Greegor, Ralph H., Columbus, Ohio, assignor to General Door Company, Reno, Nev. Truck body and door construction. 2,170,021; Aug. 22.
Green, Clifton F., New Haven, assignor of one-third to A. H. Williams, Milford, and one-third to G. E. Wood, East Haven, Conn. Dolly for dismounting vehicle wheels. 2,170,607; Aug. 22.
Green, Stanley S., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind. Electric meter. 2,170,753; Aug. 22.
Greenberg, Herman, and P. Morrison, Brooklyn, N. Y. Top cowl vehicle antenna. 2,170,684; Aug. 22.
Greenwood, Henry B., assignor to F. X. Hooper Company, Inc., Glen Arm, Md. Heat transfer device for corrugator rolls. 2,170,405; Aug. 22.
Gregory, Charles, Amarillo, Tex. Combination boot and shoe stretching and lengthening device. 2,170,754; Aug. 22.
Greist Manufacturing Company, The. (See Caldwell, Samuel P., assignor.)
Griggs, Ernest L., Jr., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Method and apparatus for winding. 2,170,194; Aug. 22.
Grindrod, George, Oconomowoc, Wis. Sterilizing apparatus. 2,170,195; Aug. 22.
Grindrod, George, Oconomowoc, Wis. Sterilizing food products. 2,170,196; Aug. 22.
Grubb, Gunnar, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y. Refrigeration. 2,170,656; Aug. 22.
Gruber, George, Linden, N. J. Support for candy molds. 2,170,051; Aug. 22.
Grupe, William F., Lyndhurst, assignor to Chambon Corporation, Garfield, N. J. Applying material to a sheet or web. 2,170,140; Aug. 22.
Gruss, Heinz. (See Kolnath, G., and Gruss.)
Guarnaschelli, Stephen, Elmhurst, assignor to Packless Metal Products Corporation, New York, N. Y. Support for flexible hose. 2,170,557; Aug. 22.
Guenther, Fritz, and K. Saftien, Ludwigshagen-on-the-Rhine, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Sulpho-carboxylic esters suitable as assistants for the textile and related industries. 2,169,998; Aug. 22.
Guilday, John W., Mount Vernon, and J. Jeming, assignors to M. R. Scharff, New York, N. Y. Holder for record cards or sheets. 2,169,999; Aug. 22.
Gumprich, William, Brooklyn, N. Y., assignor, by mesne assignments, to American Coil Spring Company, Muskegon, Mich. Spring testing scale. 2,170,197; Aug. 22.
Hadert, Hans, Berlin, Germany, assignor to Michle Printing Press and Manufacturing Company, Chicago, Ill. Making water printing inks. 2,170,198; Aug. 22.
Hahn, William C., Scotia, N. Y., assignor to General Electric Company. Automatic fidelity control. 2,170,475; Aug. 22.
Hailes, William D., and D. F. De Long, assignors to General Railway Signal Company, Rochester, N. Y. Centralized traffic controlling system for railroads. 2,170,141; Aug. 22.
Hale, Frank B., Bel Air, Md., and F. A. Logan, Sarasota, Fla. Filter impregnating machine. 2,170,142; Aug. 22.
Hall, George W., Lewiston, assignor to American Sales Book Company, Inc., Niagara Falls, N. Y. Manifolding set. 2,170,241; Aug. 22.

Hamann, Christel, Neu-Babelsberg, near Berlin, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany. Calculating machine. 2,170,406; Aug. 22.
Hamill, William W., Woodlands, Forest Lane, Chigwell, England, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Manufacture of disk wheels. 2,170,617; Aug. 22.
Hamilton, Thomas J. (See Stephens, J. P., and Hamilton.)
Hamilton, Thomas J., Oklahoma City, Okla., assignor to Phillips Petroleum Company. Baller. 2,170,369; Aug. 22.
Hammon, Stratton O. (See Misbach, T. A., and Hammon.)
Hanle, Benjamin W., Elizabeth, N. J., assignor to Eagle Pencil Company. Fountain pen. 2,170,242; Aug. 22.
Hanna, Samuel O., Jamestown, N. Y. Dust evacuating device. 2,170,324; Aug. 22.
Hanson, Frank O., assignor to J. C. Conway, Buffalo, N. Y. Hernia appliance. 2,170,558; Aug. 22.
Hanson, Norman D., Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y. Making resin-fiber compositions. 2,170,755; Aug. 22.
Hardgrove, Ralph M. (See Bailey, E. G., Cassidy, Hardgrove, and Ebbets.)
Hardgrove, Ralph M., Westfield, assignor to The Babcock & Wilcox Company, Newark, N. J. Control system. 2,170,350; Aug. 22.
Harman, Marion W., Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo. Vulcanization of rubber. 2,170,453; Aug. 22.
Harper, William A. (See Frank, William H., and Harper.)
Harrison, George R., assignor to National Stamping Company, Detroit, Mich. Battery hold-down clamp and making the same. 2,170,325; Aug. 22.
Harrison, Vernon C. J., Timperley, assignor to Linotype and Machinery Limited, London, England. Casting mechanism of typographical composing machines. 2,170,263; Aug. 22.
Harry, Eugene B., Tulare, Calif. Padding rack. 2,170,301; Aug. 22.
Hart, Fred V., Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for shaping soles. 2,170,022; Aug. 22.
Hartig, Henry E., Robbinsdale, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Control system. 2,170,072; Aug. 22.
Hartshorn, Stanley D., assignor to Pennsylvania Crusher Company, Philadelphia, Pa. Hammer mill. 2,170,407; Aug. 22.
Hartwell, Arthur F. (See Hartwell, Benjamin F., L. L., Jr., and A. F.)
Hartwell, Benjamin F., L. L., Jr., and A. F., Bellows Falls, Vt. Making molded heels and quarter constructions. 2,170,559; Aug. 22.
Hartwell, Leslie L., Jr. (See Hartwell, Benjamin F., L. L., Jr., and A. F.)
Hässler, Max, Buenos Aires, Argentina. Calendar. 2,170,023; Aug. 22.
Hastings Manufacturing Company. (See Phillips, Harold P., assignor.)
Hatch, Charles T., and I. R. Swanson, assignors to Union Steel Products Company, Albion, Mich. Insulating wall panel. 2,170,637; Aug. 22.
Hawkins, William H., Brooklyn, N. Y., and M. Selditz, assignors to Freydberg Bros., Inc., Stamford, Conn. Shoulder pad and making same. 2,170,199; Aug. 22.
Hayes, Charles T., assignor to James River Paper Products, Inc., Richmond, Va. Intaglio roll. 2,170,560; Aug. 22.
Hayes, George, Norwalk, Conn., assignor to G. F. Farr, Luton, England. Hat-finishing machine. 2,170,756; Aug. 22.
Haywood, John F., assignor of one-third to O. F. Brush and one-third to H. B. McMeen, Lewistown, Pa. Hot water heating radiator. 2,170,777; Aug. 22.
Headland, Olga, Moorhead, Minn. Fuel. 2,170,326; Aug. 22.
Hearn, John L., Upper Darby, Pa. Locomotive smokebox shroud and hinge therefor. 2,170,302; Aug. 22.
Heaven, George S. (See Glover, W. H., and Heaven.)
Heckert, Winfield W., Arden, assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulose esters and method. 2,170,024; Aug. 22.
Heckman, Gerhard F. (See Trible, W., and Heckman.)
Helm, Moses L., and K. Fiedler, Leipzig, Germany; said Fiedler assignor to said Helm. Oxygen-generating composition. 2,170,052; Aug. 22.
Heltner, William A., assignor to W. H. Miner, Inc., Chicago, Ill. Refrigerator car door. 2,170,053; Aug. 22.
Hektner, Joel, assignor to The Timken Roller Bearing Company, Canton, Ohio. Wheel and axle assembly. 2,170,498; Aug. 22.
Helstrup, Lars K. V., Frederiksberg, Denmark. Apparatus for grinding liquid or semisolid substances. 2,170,303; Aug. 22.
Henderson, Charles R. (See Lochhead, Elmer C., assignor.)
Herber, Leondard, Rochester, Minn. Butter cutting machine. 2,170,685; Aug. 22.
Hercules Powder Company. (See Klinger, Harry W., assignor.)
Herfurth, Charles, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Truing attachment. 2,170,304; Aug. 22.
Herzog, Robert, Berlin-Wilhelmshagen, and A. Katsch, Berlin-Lichterfelde, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Electron tube. 2,170,657; Aug. 22.
Hess, William F., Pawtucket, R. I., assignor to Armbrust Chain Company. Ornamental chain. 2,170,073; Aug. 22.
Hesselman Motor Corporation Aktiebolag. (See Johansson, Martin, assignor.)
Hewitt, Ellis E., Edgewood, assignor to Westinghouse Air Brake Company, Wilmerding, Pa. Air filter. 2,170,074; Aug. 22.
Hiatt, Gordon D. (See Fordyce, C. R., and Hiatt.)
Higgins, Pattillo, Jr., Mont Belvieu, Tex. Method and apparatus for taking sample cores. 2,170,716; Aug. 22.
Highberg, George A. (See Sloan, H. E., and Highberg.)
Hillecourt, Carrol W., San Francisco, Calif. Perpetual calendar. 2,170,408; Aug. 22.
Hillis, David R., Detroit, Mich., assignor to Trabon Engineering Corporation, Cleveland, Ohio. Combined alternating pump and control valve. 2,170,327; Aug. 22.
Hintze, Harry, Rock Hill, S. C., and J. J. Dolphi, Cranston, R. I. Textile printing machine. 2,170,286; Aug. 22.
Hiscock, John T., Chicago, Ill. Tool-holding device. 2,170,590; Aug. 22.
Hoffman, Robert W., St. Louis, Mo., and O. F. Juenger, Belleville, Ill., assignors to Johns-Manville Corporation, New York, N. Y. Stove oven. 2,170,409; Aug. 22.
Hoffman, William C., Baltimore, Md. Photographic lighting apparatus. 2,170,529; Aug. 22.
Hoffmann-La Roche Inc. (See Schnider, Otto, assignor.)
Hoke, William E., Baltimore, Md. Lapping or grinding. 2,170,328; Aug. 22.
Hoke, William E., Baltimore, Md. Apparatus for lapping or abrading. 2,170,329; Aug. 22.
Holloway, John, Burnham, assignor to Holloway Patents Limited, Slough, Bucks, England. Power hammer. 2,170,757; Aug. 22.
Holloway, Mayo, Birmingham, Ala. Neck band ironer. 2,170,075; Aug. 22.
Holloway Patents Limited. (See Holloway, John, assignor.)
Holsten, Hermann, Ludwigshafen-on-the-Rhine, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Aliphatic sulphonic acid. 2,170,380; Aug. 22.
Holt, Lucile E., Los Angeles, Calif. Puff sleeve ironer. 2,170,591; Aug. 22.
Hooper, F. X., Company. (See Greenwood, Henry B., assignor.)
Hopkins, Arthur G., Maspeth, New York, assignor to McKeesport Tin Plate Corporation. Soldered can seam and making same. 2,170,638; Aug. 22.
Hopkins, Arthur G., Maspeth, N. Y., assignor to McKeesport Tin Plate Corporation. Soldered metal seam for sheet metal cans and making same. 2,170,639; Aug. 22.
Hornback, Arch E., assignor of one-half to O. Van Dyke, Jr., Chicago, Ill. Spark plug. 2,170,243; Aug. 22.
Horton, Erwin C., Hamburg, assignor to Trico Products Corporation, Buffalo, N. Y. Windshield cleaner. 2,170,264; Aug. 22.
Houseman, Harold E., assignor to Scott & Williams, Incorporated, Laconia, N. H. Stocking and making the same. 2,170,078; Aug. 22.
Houseman, Harry A., assignor to Scott and Williams, Incorporated, Laconia, N. H. Stocking and making the same. 2,170,077; Aug. 22.
Houseman, Wilbur L., Maplewood, N. J., assignor to Scott and Williams, Incorporated, Laconia, N. H. Stocking and making the same. 2,170,076; Aug. 22.
Howard, Ernest A. (See Frech, T. W., Howard, and Scott.)
Howard Hosiery Company. (See Stevenson, Frank, assignor.)
Howe, James F. (See Morrison, J. J., and Howe.)
Howell, Edward T., Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Compounds of the benzanthrone series. 2,170,381; Aug. 22.
Hoysted, Elizabeth A., New York, N. Y. Hair curler. 2,170,785; Aug. 22.
Hucks, Robert T., South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Enamel composition. 2,170,658; Aug. 22.
Hull, John B., Berkley, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Magnetic track brake. 2,170,244; Aug. 22.
Hull, Matthew R., Connersville, Ind., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill. Refrigerator cabinet. 2,170,717; Aug. 22.
Hummel, Frederick E., et al. (See Busch, Robert W., assignor.)
Humphries, Loyal E., Balmorhea, Tex. Rod-supporting bushing. 2,170,718; Aug. 22.
Huppert, William, New York, N. Y., assignor to Delamere Company, Inc. Hair fastener. 2,170,778; Aug. 22.

Hürlimann, Max, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland. Electric valve protective system. 2,170,499; Aug. 22.
Hygienol Co. Inc., The. (See Meyer, David, assignor.)
Hygrade Sylvania Corporation. (See Imboden, George J., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Christ, Bruno, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Guenther, F., and Saftien, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Holsten, Hermann, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Jühne, Friedrich, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See von Zeppelin, Helmut, assignor.)
Imboden, George J., Emporium, Pa., assignor to Hygrade Sylvania Corporation, Salem, Mass. Electron discharge tube. 2,170,410; Aug. 22.
Imperial Chemical Industries Limited. (See Worrall, Gladstone W., assignor.)
Imperial Knife Co. (See Mirando, F. A., and Vossler, assignors.)
Ingersoll Milling Machine Company, The. (See Ridgway, William F., assignor.)
Ingouf, Robert J. A., Kingsport, Tenn., assignor to Fidelity Machine Company, Wilmington, Del. Wire mesh fabric for wire glass. 2,170,719; Aug. 22.
Ingwersen, Christian L., Milwaukee, Wis. Torch compass. 2,170,305; Aug. 22.
International Business Machines Corporation. (See Bryce, James W., assignor.)
International Standard Electric Corporation. (See Ellison, Leslie J., assignor.)
Ipatieff, Vladimir, and H. Pines, assignors to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbons. 2,170,306; Aug. 22.
Iron Fireman Manufacturing Company. (See Richardson, Max C., assignor.)
Isaacson, Carl A., St. Paul, Minn. Garment hanger. 2,170,686; Aug. 22.
Jackson, Robert E., Dedham, Mass. Safety bill handling chest. 2,170,245; Aug. 22.
Jacobs, Charles T. (See Dunning, O. M., and Jacobs.)
Jacobs, Morris B., Brooklyn, and A. A. Singer, New York, N. Y. Separatory flask. 2,170,411; Aug. 22.
Jacobus, Warren A., Wood River, Nebr. Direction indicator. 2,170,370; Aug. 22.
Jühne, Friedrich, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Apparatus for testing magnetizable workpieces. 2,170,371; Aug. 22.
James River Paper Products, Inc. (See Hayes, Charles T., assignor.)
Jeming, Joseph. (See Guilday, J. W., and Jeming.)
Jennings, Oliver S., Pittsburgh, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Circuit breaker. 2,170,412; Aug. 22.
Jeschor, Paul, Breslau, Germany. Apparatus for boring crank case bearings. 2,170,054; Aug. 22.
Joedicke, Fritz, Hamburg, Germany, assignor to Shell Development Company, San Francisco, Calif. Asphalt laying apparatus. 2,170,330; Aug. 22.
Johansson, Martin, assignor to Hesselman Motor Corporation Aktiebolag, Henriksdal, Stockholm, Sweden. Governing device. 2,170,413; Aug. 22.
Johns-Manville Corporation. (See Hoffman, R. W., and Juenger, assignors.)
Johns-Manville Corporation. (See Seigle, William R., assignor.)
Johnson, Arthur B., Minneapolis, Minn. Tiltable cutter unit. 2,170,687; Aug. 22.
Johnson, Axel, deceased (by G. W. and L. A. Johnson, executors), and G. W. Johnson, Oakland, Calif. Double seamer. 2,170,055; Aug. 22.
Johnson, George W. (See Johnson, A. and G. W.)
Johnson, Henry, et al. (See Spikes, Robert L., assignor.)
Johnson, James P., Shaker Heights, assignor, by mesne assignments, to Pump Engineering Service Corporation, Cleveland, Ohio. Fuel pump. 2,170,530; Aug. 22.
Johnson, Lloyd A., et al., executors. (See Johnson, A. and G. W.)
Johnston, Clarence L., Oakland, Calif. Autographic register. 2,170,143; Aug. 22.
Jones, Benjamin W., Schenectady, N. Y., assignor to General Electric Company. Remote control system. 2,170,688; Aug. 22.
Jones, Ira M. (See Ohlson, John B., assignor.)
Jonz, J. P., et al. (See Burton, Edgar F., assignor.)
Jordihoy, Hans C., North Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y. Ink-motion carriage. 2,170,025; Aug. 22.
Joy, Joseph F., Claremont, N. H., assignor to Sullivan Machinery Company. Mining machine. 2,170,331; Aug. 22.
Joyce, Harold L., assignor to Jas. P. Marsh Corporation, Chicago, Ill. Combined Bourdon tube and trap. 2,170,561; Aug. 22.
Juenger, Otto F. (See Hoffman, R. W., and Juenger.)
Junghans, Helmut, Eckenhof in Sulgen, near Schramberg, Germany. Alarm clock. 2,170,079; Aug. 22.
Junkers Flugzeug- und-Motorenwerke Aktiengesellschaft. (See Gerlach, Manfred, assignor.)
Junkers Flugzeug- und-Motorenwerke Aktiengesellschaft. (See Steudel, Hans, assignor.)
Junkins, Raymond D., Cleveland Heights, Ohio, assignor to Bailey Meter Company. Operating vapor generators 2,170,351; Aug. 22.
Jurale, Bernard, South Meriden, Conn. Poultry feed. 2,170,562; Aug. 22.
Justheim, Clarence L., Salt Lake City, Utah. Refrigerator. 2,170,332; Aug. 22.
Jutting, Bernhard G., New Brunswick, N. J. Rotary Diesel engine. 2,170,414; Aug. 22.
Kahn, Julian, New York, N. Y. Apparatus for mixing a liquid with a gas. 2,170,531; Aug. 22.
Kahn, Robert S., Brooklyn, N. Y. Burglar-alarm wall construction. 2,170,026; Aug. 22.
Kaiser, Otto, St. Ingbert, Germany. Control means for valves for concrete delivery pumps. 2,170,080; Aug. 22.
Kalio, Inc. (See Lieberknecht, Karl R., assignor.)
Karell, Louis, Brooklyn, N. Y. Rain shield for filling openings of automobile gasoline tanks. 2,170,415; Aug. 22.
Karnes, David W., Denver, Colo. Head gate control device. 2,170,200; Aug. 22.
Karwat, Ernst, Grosshesselohe, near Munich, Germany, assignor to The Linde Air Products Company. Producing hydrogen-enriched gas mixtures. 2,170,265; Aug. 22.
Katsch, Annemarie. (See Baier, O., and Katsch.)
Katsch, Annemarie. (See Herzog, R., and Katsch.)
Kaufmann, Kurt, Berlin-Waidmannslust, assignor, to Automatic Druckmaschinenfabrik Dr. W. Hinniger und Söhne, Berlin, Germany. Cylinder printing machine. 2,170,027; Aug. 22.
Kayser, Julius, & Co. (See Beers, J. L., and Strausberger, assignors.)
Keevil, Henry W. (See Dionne, J. C., and Keevil.)
Keinath, Georg, Berlin-Charlottenburg, and H. Grüss, Berlin-Wannsee, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany. Automatic indication of inflammable gas admixtures. 2,170,056; Aug. 22.
Kells, Lyman M., W. F. Kern, and J. R. Bland, Annapolis, Md., assignors to Keuffel & Esser Company, Hoboken, N. J. Slide rule. 2,170,144; Aug. 22.
Kelsey-Hayes Wheel Company. (See Ash, Charles S., assignor.)
Kelsey-Hayes Wheel Company. (See Hamill, William W., assignor.)
Kelsey-Hayes Wheel Company. (See Le Jeune, Frank H., assignor.)
Kelsey-Hayes Wheel Company. (See Sinclair, Charles W., assignor.)
Kenyon, John N., New York, N. Y. Fatigue testing machine. 2,170,640; Aug. 22.
Kern, Walter, Sissach, and R. Tobler, Riehen, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Azo dyestuffs. 2,170,372; Aug. 22.
Kern, Willis F. (See Kells, L. M., Kern, and Bland.)
Kerr, Ralph L., assignor of one-half to J. E. Peek, Oklahoma City, Okla. Shock absorbing device. 2,170,057; Aug. 22.
Kestenbaum, Theodore, New York, N. Y. Milk can construction. 2,170,720; Aug. 22.
Keuffel & Esser Company. (See Kells, L. M., Kern, and Bland, assignors.)
Key, F. C., et al. (See Burton, Edgar F., assignor.)
Kiesler, Frederick, New York, N. Y. Party lounge and furniture construction. 2,170,382; Aug. 22.
Kind, Oscar, Rodenkirchen, near Cologne, Germany. Apparatus for playing a table game. 2,170,373; Aug. 22.
Kines, Charles R., Baltimore, Md. Aircraft recording means 2,170,383; Aug. 22.
King-Seeley Corporation. (See Adler, Herman G., assignor.)
Kinnebrew, Walter L., Emeryville, Calif. Detachable electrical connector. 2,170,287; Aug. 22.
Kirk, Walter B., East McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Strainer cleaning device. 2,170,081; Aug. 22.
Kiss, James, Bethlehem, Pa. Coin feeding apparatus. 2,170,288; Aug. 22.
Kitchen, Harry E., assignor to Farrel-Birmingham Company, Inc., Buffalo, N. Y. Gear generator. 2,170,608; Aug. 22.
Klamp, Paul, and A. L. Bergstrom, assignors to The Timken Roller Bearing Company, Canton, Ohio. Peripheral machining apparatus. 2,170,501; Aug. 22.
Klein, David X. (See Lee, H. R., and Klein.)
Kleiner, Adolph W., Worcester, Mass. Boring bar holder. 2,170,246; Aug. 22.
Klinger, Harry W., assignor to Hercules Powder Company, Wilmington, Del. Laminated cloth. 2,170,416; Aug. 22.
Klingler, Francis, Riverside, N. J., assignor to Super Speed Press Corporation, New York, N. Y. Mechanism for feeding sheet material and the like. 2,170,289; Aug. 22.
Knapp, William, Hollis, N. Y. Adjustable electric lamp. 2,170,201; Aug. 22.
Knowlton, Donald R., Bartlesville, Okla., and P. C. Murphy, Shreveport, La., assignors to Phillips Petroleum Company. Flow head with adjustable flow bean 2,170,500; Aug. 22.
Kohl, Karl, Berlin, Germany, assignor to Naamlooze Vennootschap Machinericen-en Apparaten Fabrieken "Meaf", Utrecht, Netherlands. Transmitting and receiving device for ultra-short waves. 2,170,028; Aug. 22.

Kohler, Harriet S., Westport, Conn. Garment. 2,170,083; Aug. 22.
Kooistra, Lambert, Barberton, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J. Heat exchanger. 2,170,145; Aug. 22.
Kothny, Gottdank L., Strafford, assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa. Core protractor. 2,170,146; Aug. 22.
Kramar, Ernst, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany. Direction finding arrangement. 2,170,659; Aug. 22.
Kramer, Bernard L., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbon oils. 2,170,333; Aug. 22.
Kruse, Albert J., Fredericksburg, Tex. Baling press. 2,170,084; Aug. 22.
Küpfmüller, Karl, Berlin-Charlottenburg, assignor to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung, Berlin, Germany. Receiver for frequency-modulated waves. 2,170,202; Aug. 22.
Kyle, David H., Bryan, Ohio. Fishing apparatus. 2,170,476; Aug. 22.
Lacks, John P., assignor to Reynolds Wire Co., Dixon, Ill. Bobbin for wire weaving looms. 2,170,334; Aug. 22.
Laclede-Christy Clay Products Company. (See Burnet, Samuel F., assignor.)
Lamb, Tom, Company. (See Eichel, Frank A., assignor.)
Lambert, Richard A., Tacoma, Wash. Water trap for gasoline pipe lines, etc., and for all storage tanks and tank cars. 2,170,247; Aug. 22.
La Mont Corporation. (See Zwilling, Theodor, assignor.)
Lancelot, Ralph, Pittsburgh, Pa. Illuminated advertising display. 2,170,641; Aug. 22.
Lane, John D., Boston, Mass. Package of gummed bands or stickers. 2,170,147; Aug. 22.
Langmyhr, George J., Sarnia, Ontario, Canada, assignor to Standard Oil Development Company. Coke cleaning device. 2,170,660; Aug. 22.
Lanier, Henry J., Langdale, Ala., assignor to Draper Corporation, Hopedale, Mass. Shuttle box front. 2,170,384; Aug. 22.
Larison, Glenn L., La Grande, Oreg. Shock reducing and cushioning wheel mounting for vehicles. 2,170,454; Aug. 22.
Larkin, Elwood T., Buffalo, assignor to Michell-Crankless Engines Corporation, New York, N. Y. Internal combustion engine. 2,170,058; Aug. 22.
Larson, Harry W., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Sheet metal pulley. 2,170,779; Aug. 22.
Latimer, Chester W., West Orange, N. J., and J. L. Finch, Patchogue, J. W. Conklin, Rocky Point, and H. E. Goldstine, Port Jefferson Station, N. Y., assignors to Radio Corporation of America. Long dash and light keying indicator. 2,170,203; Aug. 22.
Lavino, E. J., and Company. (See Sell, Gilbert E., assignor.)
Le Beau, Ernest A., assignor to Chicago Railway Equipment Company, Chicago, Ill. Railway brake gear device. 2,170,532; Aug. 22.
Lee, Henry R., South Milwaukee, and D. X. Klein, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Anthraquinone acid wool dyestuffs. 2,170,385; Aug. 22.
Lehwald, Carl J., Salem, Ohio. Container closure retainer. 2,170,758; Aug. 22.
Leighton, John W., Port Huron, Mich. Roller bearing shackle. 2,170,455; Aug. 22.
Leissner, Edward E., assignor of one-half to A. J. Schossberger, New York, N. Y. Piston for internal combustion engines. 2,170,266; Aug. 22.
Le Jeune, Frank H., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Manufacturing wheel body elements. 2,170,661; Aug. 22.
Lemasson, Roger P. F., Montrouge, France. High speed motor operating with heavy liquid fuel. 2,170,477; Aug. 22.
Lemoine, John E., Maynard, Mass. Clothespin. 2,170,204; Aug. 22.
Lengyel, Carl, Buffalo, N. Y. Insulating covering for hot air furnaces. 2,170,085; Aug. 22.
Lentine, John H., and V. Loigman, assignors to Central Paper Box Company, Philadelphia, Pa. Paper box construction. 2,170,759; Aug. 22.
Leonard, Wellington C., Mansfield, Pa. Control switch. 2,170,374; Aug. 22.
Leslie-California Salt Company. (See See, Douglas S., assignor.)
Levin, Harry M., Philadelphia, Pa. Salad dressing. 2,170,417; Aug. 22.
Libbey Glass Company. (See Schutz, Harold R., assignor.)
Liddell, Wingham J., and L. C. Morse, Oakland, Calif. Hydraulic jack. 2,170,029; Aug. 22.
Lieberknecht, Karl R., Oberlungwitz, Germany, assignor to Kalio, Inc., New York, N. Y. Flat full-fashioned knitting machine. 2,170,148; Aug. 22.
Linde Air Products Company, The. (See Karwat, Ernst, assignor.)
Linotype and Machinery Limited. (See Harrison, Vernon C. J., assignor.)
Lochhead, Elmer C., assignor of one-half to C. R. Henderson, Moberly, Mo. Hosiery and making the same. 2,170,149; Aug. 22.
Lockhart, William, Northfield, Ohio, assignor to The National Steel Barrel Company. Method of and apparatus for burnishing. 2,170,533; Aug. 22.
Logan, Frank A. (See Hale, F. B., and Logan.)
Logemann, Willy. (See Butenandt, A., and Logemann.)
Loigman, Victor. (See Lentine, J. H., and Loigman.)
Lombardo, Joseph, assignor of one-half to S. Roth, Chicago, Ill. Lock construction. 2,170,205; Aug. 22.
Long, Fred M. (See Long, Fred R., and F. M.)
Long, Fred R. and F. M., Catawissa, Pa. Valved pipe union. 2,170,478; Aug. 22.
Loomis, Ernest L., Haverhill, Mass. Scaffolding suspension. 2,170,689; Aug. 22.
Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Electric discharge apparatus. 2,170,456; Aug. 22.
Lord, Harold W., Schenectady, N. Y., assignor to General Electric Company. Electric discharge apparatus. 2,170,457; Aug. 22.
Lord, Howard F., assignor to J. W. Wood Elastic Web Co., Stoughton, Mass. Reversible woven elastic fabric. 2,170,563; Aug. 22.
Lorenz, C., Aktiengesellschaft. (See Baier, O., and Katsch, assignors.)
Lorenz, C., Aktiengesellschaft. (See Herzog, R., and Katsch, assignors.)
Lorenz, C., Aktiengesellschaft. (See Kramar, Ernst, assignor.)
Luck, Clyde A., et al. (See Cousart, Eddie C., assignor.)
Luckins, Russell C., Philadelphia, Pa. Scaling device. 2,170,721; Aug. 22.
Luftschiffbau Zeppelin G. m. b. H. (See Moechel, Hans, assignor.)
Lundin, John, Detroit, Mich. Form apparatus for concrete construction. 2,170,564; Aug. 22.
Luther Manufacturing Company. (See Messer, Peter J., assignor.)
Lyman, Winnifred C., Southampton, Mass. Garment hanger. 2,170,479; Aug. 22.
Lyon, Norman W., assignor to Package Machinery Company, Springfield, Mass. Bottle hooding machine. 2,170,760; Aug. 22.
Mabey, Arthur R., assignor to The Bristol Company, Waterbury, Conn. Automatic control system. 2,170,418; Aug. 22.
Macbeth, Colin, Birmingham, England. Spring suspension for fork-mounted wheels. 2,170,565; Aug. 22.
MacDougall, Bon G., assignor to R. T. Moloney, Chicago, Ill. Indicator for ball-rolling games. 2,170,566; Aug. 22.
Mackay Radio & Telegraph Company. (See Alford, Andrew, assignor.)
MacNutt, Arthur D., Kenmore, assignor to Certain-Teed Products Corporation, New York, N. Y. Covering material. 2,170,534; Aug. 22.
Mafera, Guy, Revere, Mass. Aligner. 2,170,690; Aug. 22.
Magee Carpet Company. (See Penman, Montgomery B., assignor.)
Mainzer, Walter, Stuttgart, Germany. Filling nozzle for fuel tanks. 2,170,722; Aug. 22.
Malm, Carl J. (See Clarke, H. T., and Malm.)
Maim, Carl J., and C. R. Fordyce, assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y. Preparation of mixed dicarboxylic acid esters of polyhydroxy compounds and monohydroxy alcohols. 2,170,030; Aug. 22.
Manuel, Charles J. (See Pringle, W. A., and Manuel.)
Marcus, Edward J., et al. (See Burton, Edgar F., assignor.)
Marinsky, Davis. (See Morin, L. H., and Marinsky.)
Marinsky, Davis, assignor to Whitehall Patents Corporation, Bronx, N. Y. Stringer tape. 2,170,419; Aug. 22.
Markert, John P., Stamford, Conn. Paper receptacle. 2,170,420; Aug. 22.
Marquardt, Robert E., Oshkosh, Wis. Mortician's appliance. 2,170,724; Aug. 22.
Marsden, Cleve G., Portland, Oreg. Movement rest for watches. 2,170,535; Aug. 22.
Marsh, Jas. P., Corporation. (See Joyce, Harold L., assignor.)
Marshall, James K. (See Soref, H. E., and Marshall.)
Martellotti, Mario, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Machine tool transmission. 2,170,502; Aug. 22.
Martellotti, Mario, and H. Ernst, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Milling machine. 2,170,503; Aug. 22.
Martellotti, Mario E., assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio. Transmission and control mechanism for milling machines. 2,170,291; Aug. 22.
Martin, Alfred M., Park Ridge, Ill. Slip accounting device. 2,170,642; Aug. 22.
Martin, Louis F., Jr., assignor of one-half to L. H. Sprague, Winchester, Tenn. Prescription powder divider. 2,170,150; Aug. 22.
Marx, Frank A., assignor to The Richardson Taylor-Globe Corporation, Cincinnati, Ohio. Collapsible display container. 2,170,723; Aug. 22.
Maseco Corporation. (See Ellis, Charles A., assignor.)

Mason, Edwin R., assignor to Motor Products Corporation, Detroit, Mich. Rubbing machine. 2,170,643; Aug. 22.
Mason, Harry R., Chicago, Ill. Oil controlling mechanism. 2,170,725; Aug. 22.
Mason, Warren P., West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical and electromechanical system employing magnetostrictive devices. 2,170,206; Aug. 22.
Massey, Emmett, Proctor, assignor of one-half to O. C. Pittman, Chatfield, Ark. Combination lock ignition switch. 2,170,780; Aug. 22.
Master Lock Company. (See Soref, H. E., and Marshall, assignors.)
Mathers, Frank C., Bloomington, Ind., and R. D. Blue, Midland, Mich. Electrodeposition of aluminum. 2,170,375; Aug. 22.
Mathes, Roger A., Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Manufacture of mercaptothiazolines. 2,170,059; Aug. 22.
Maucher, Hans, assignor to Norma Multikolor, Inc., New York, N. Y. Mechanical pencil. 2,170,761; Aug. 22.
Maxim Silencer Company, The. (See Bourne, Roland B., assignor.)
Mayer, Karl, Landau, Pfalz, Germany. Stiffening shoes. 2,170,376; Aug. 22.
McCarthy, John J., Malden, Mass. Internal combustion engine. 2,170,151; Aug. 22.
McClatchie, John M. (See Taylor, B. E., and McClatchie.)
McCune, Joseph C., Edgewood, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Fluid pressure brake. 2,170,086; Aug. 22.
McDermett, G. C., et al. (See Burton, Edgar F., assignor.)
McElroy, Isaac E., and R. H. Shadrick, Minneapolis, Minn. Hydraulic transmission apparatus. 2,170,786; Aug. 22.
McKeesport Tin Plate Corporation. (See Hopkins, Arthur G., assignor.)
McKesson, Claude L., assignor to American Bituminis Company, San Francisco, Calif. Stable bituminous emulsion and preparing the same. 2,170,152; Aug. 22.
McMeen, Hugh B., et al. (See Haywood, John F., assignor.)
McNeil, James W., Tampa, Fla. Adjustable closure for containers. 2,170,335; Aug. 22.
McPherson, Harry L., Memphis, Tenn. Airplane indicator. 2,170,087; Aug. 22.
McWane, Arthur T., Birmingham, Ala. Cigarette holder. 2,170,248; Aug. 22.
Meier, Paul, Ridgewood, N. Y. Pen feeding machine. 2,170,567; Aug. 22.
Meik, John H., et al. (See Burton, Edgar F., assignor.)
Melba Machinery Royalty Corporation. (See Weil, Bert, assignor.)
Merck & Co. (See Dalmer, O., and von Werder, assignors.)
Mergenthaler Linotype Company. (See Albrecht, Christian A., assignor.)
Mergenthaler Linotype Company. (See Bramlett, Ardrey M., assignor.)
Merolle, Augustus L., assignor of one-half to Empire Metal Cap Co., Inc., Brooklyn, N. Y. Receptacle closure. 2,170,386; Aug. 22.
Merritt, Charles A., Miami, Fla. Oil burner. 2,170,480; Aug. 22.
Messer, Peter J., assignor to Luther Manufacturing Company, Inc., Olean, N. Y. Winch. 2,170,504; Aug. 22.
Mesterton, Kuno W., Brooklyn, N. Y. Vegetable slicing and stringing tool. 2,170,536; Aug. 22.
Metropolitan Device Corporation. (See Allen, Albert J., assignor.)
Mettmanner Britannia-Warenfabrik W. Seibel. (See Borofski, Heinrich, assignor.)
Meyer, David, assignor to The Hygienol Co. Inc., New Rochelle, N. Y. Receptacle or box. 2,170,060; Aug. 22.
Meyer, Jules. (See Graenacher, C., and Meyer.)
Meyer, Wilfried. (See Friederich, E., and Meyer.)
Meyerhoefer, Carl E., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y. Core mounting. 2,170,031; Aug. 22.
Michell-Crankless Engines Corporation. (See Larkin, Elwood T., assignor.)
Micro Switch Corporation. (See Eaton, Malcolm W., assignor.)
Micro Switch Corporation. (See Riche, Arthur L., assignor.)
Michle Printing Press and Manufacturing Company. (See Hadert, Hans, assignor.)
Miller Company, The. (See Doane, Leroy C., assignor.)
Miller, George W., Sapulpa, Okla. Sand pump and attachment therefor. 2,170,568; Aug. 22.
Miner, James H., Meridian, Miss. Ice tray organization for refrigerators. 2,170,592; Aug. 22.
Miner, W. H., Inc. (See Heitner, William A., assignor.)
Minneapolis-Honeywell Regulator Company. (See Bower, George D., assignor.)
Minneapolis-Honeywell Regulator Company. (See Gille, Willis H., assignor.)
Minneapolis-Honeywell Regulator Company. (See Hartig, Henry E., assignor.)
Minneapolis-Honeywell Regulator Company. (See Nessell, Clarence W., assignor.)
Minneapolis-Honeywell Regulator Company. (See Shivers, Paul F., assignor.)
Mirando, Felix A., and H. Vossler, assignors to Imperial Knife Co., Inc., Providence, R. I. Knife handle and component parts thereof. 2,170,537; Aug. 22.
Misbach, Thomas A., and S. O. Hammon, Louisville, Ky. Damper structure. 2,170,726; Aug. 22.
Misiak, Joseph T., and W. D. Mitchell, Chicago, Ill. Waffle iron. 2,170,153; Aug. 22.
Misner, George W., East McKeesport, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic weighing device. 2,170,249; Aug. 22.
Mitchell, Allister S., and H. M. Ratley, assignors to National Automotive Fibres, Inc., Detroit, Mich. Trimpanel manufacture and apparatus. 2,170,662; Aug. 22.
Mitchell, Harry, assignor to Whitin Machine Works, Whitinsville, Mass. Production of spindle blades. 2,170,727; Aug. 22.
Mitchell, Wesley D. (See Mislak, J. T., and Mitchell.)
Moberg, Ivar O., Lowell, Mass., assignor to Nashua Manufacturing Company, Nashua, N. H. Let-off mechanism for looms. 2,170,762; Aug. 22.
Moechel, Hans, assignor to Luftschiffbau Zeppelin G. m. b. H., Friedrichshafen, Bodensee, Germany. Lightweight girder, especially for aircraft. 2,170,458; Aug. 22.
Mohun, John L., Jr. (See Mosier, C., and Mohun.)
Moloney, Raymond T. (See MacDougall, Bon G., assignor.)
Monsanto Chemical Company. (See Harman, Marion W., assignor.)
Montague, Charles D., Fredericksburg, assignor to Automatic Draft and Stove Co., Inc., Lynchburg, Va. Automatic draft regulator. 2,170,728; Aug. 22.
Montgomery, John A., Denver, Colo. Cutting screen for sewage. 2,170,569; Aug. 22.
Moore, Clarence W., Roslyn, Pa., assignor, by mesne assignments, to United Specialties Company, Detroit, Mich. Circuit control device. 2,170,154; Aug. 22.
Moore, Joseph B., Madawaska, Maine. Brake control mechanism. 2,170,593; Aug. 22.
Morgan Construction Company. (See Sheperdson, John W., assignor.)
Morgan, John D., South Orange, assignor to Power Patents Company, Hillside, N. J. Glaze. 2,170,387; Aug. 22.
Morgan, Willard L. (See Walsh, J. F., and Morgan.)
Morgan, Willard L., Calumet City, Ill., assignor to American Maize-Products Company. Adhesive composition. 2,170,273; Aug. 22.
Morgan, Willard L., Calumet City, Ill., assignor to American Maize-Products Company. Baking powder. 2,170,274; Aug. 22.
Moriarty, Benedict E., Kenosha, Wis. Curtain rod and bracket. 2,170,570; Aug. 22.
Morin, Louis H., and D. Marinsky, Bronx, assignors to Whitehall Patents Corporation, New York, N. Y. Coupling link for separable fasteners. 2,170,421; Aug. 22.
Morrell, Jacque C., assignor to Universal Oil Products Company, Chicago, Ill. Treatment of hydrocarbon oils. 2,170,336; Aug. 22.
Morrison, James J., and J. F. Howe, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey. Submarine barrier. 2,170,481; Aug. 22.
Morrison, Philip. (See Greenberg, H., and Morrison.)
Morrow, Homer B., and G. W. Walker, Platteville, Wis. Radiator used with internal combustion engines. 2,170,214; Aug. 22.
Morse, Leander C. (See Liddell, W. J., and Morse.)
Mosier, Carl, and J. L. Mohun, Jr., assignors to Union Asbestos & Rubber Company, Chicago, Ill. Insulating tape and making the same. 2,170,207; Aug. 22.
Motiograph, Inc. (See Wienke, Emil J., assignor.)
Motkowicz, Charles, and J. Podgorny, Chicago, Ill. Spring-action clothesline reel. 2,170,459; Aug. 22.
Motor Products Corporation. (See Mason, Edwin R., assignor.)
Mott, Edward E., Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Acoustic device. 2,170,571; Aug. 22.
Mueller, Arthur C. (See Agerell, W. C., and Mueller.)
Mulder, Johannes G. W., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Mercury-vapor rectifier. 2,170,482; Aug. 22.
Murphy, Paul C. (See Knowlton, D. R., and Murphy.)
Murray, Howard J., New York, N. Y. Variable speed power transmission device with speed-torque actuated give-away control. 2,170,208; Aug. 22.
Murray, Howard J., New York, N. Y. Variable speed power transmission with unidirectional clutch. 2,170,460; Aug. 22.
Murray, James M. and T. J., Chicago, Ill. Stop signal control. 2,170,088; Aug. 22.
Murray, Thomas J. (See Murray, James M. and T. J.)
Musher, Albert, New York, N. Y., assignor to Musher Corporation, Elizabeth, N. J. Food product. 2,170,155; Aug. 22.
Musher, Albert, New York, N. Y., assignor to Musher Corporation, Elizabeth, N. J. Salad dressing. 2,170,518; Aug. 22.
Musher Corporation. (See Musher, Albert, assignor.)
Mutter, Charles F., Brooklyn, N. Y. Antiskid shoe attachment. 2,170,691; Aug. 22.

N. V. Molybdenum Company. (See Schwartzkopf, Hans H., assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Mulder, Johannes G. W., assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Reerink, E. H., and Druyvesteyn, assignors.)
Naamlooze Vennootschap Machinerieen-en Apparaten Fabrieken "Meaf". (See Kohl, Karl, assignor.)
Naegeli, Carl, Zurich, assignor to Cilag, Chemisches Industrielles Laboratorium A. G., Shaffhausen, Switzerland. Sulphonamides of 2-amino pyridines. 2,170,209; Aug. 22.
Nashua Manufacturing Company. (See Moberg, Ivar O., assignor.)
National Acme Company, The. (See Drissner, Alfred E., assignor.)
National Automotive Fibres, Inc. (See Mitchell, A. S., and Ratley, assignors.)
National Cash Register Company, The. (See Bullerjahn, Karl, assignor.)
National Cash Register Company, The. (See Emberson, Frederick, assignor.)
National Machinery Company, The. (See Frost, Earl R., assignor.)
National Stamping Company. (See Harrison, George R., assignor.)
National Steel Barrel Company, The. (See Lockhart, William, assignor.)
Navias, Louis, Schenectady, N. Y., assignor to General Electric Company. Electric heater. 2,170,692; Aug. 22.
Neckel, Edmund N., Cincinnati, assignor to The American Laundry Machinery Company, Norwood, Ohio. Neckband clamp. 2,170,061; Aug. 22.
Nedal, Peder, Meadville, Pa., assignor to Talon, Inc. Machine for cutting slide fastener strips. 2,170,609;
Nelson, Edwin F., assignor to Universal Oil Products Company, Chicago, Ill. Conversion of hydrocarbons. 2,170,275; Aug. 22.
Nelson, Franklin C., Roselle, N. J., assignor to Stanco, Incorporated. Wetting and spreading agent for oils. 2,170,644; Aug. 22.
Nelson, Verner A., Minneapolis, Minn., assignor of one-half to J. Whelan, New York, N. Y. Seal for bags. 2,170,089; Aug. 22.
Nessell, Clarence W., Dayton, Ohio, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Air conditioning control system. 2,170,388; Aug. 22.
Neumann, Hans. (See Dannöhl, W., and Neumann.)
New Idea, Inc. (See Vutz, Wilhelm, assignor.)
Newman Machine Co. (See Payne, Charles A., assignor.)
New Products Corporation. (See Banker, Oscar H., assignor.)
News Projection Corporation. (See Eltzen, August D., assignor.)
Nicholson, Paul C., Providence, R. I. Line release clip and signal. 2,170,594; Aug. 22.
Nisle, Louise A., Chicago, Ill. Picture illumination. 2,170,377; Aug. 22.
Nobblitt-Sparks Industries, Inc. (See Booth, Earl C., assignor.)
Non-Mercuric Carrot Company, The. (See Fabian, Constantine F., assignor.)
Nordmark, Henry P., assignor to American Seating Company, Grand Rapids, Mich. Supporting leg. 2,170,062; Aug. 22.
Norma Multikolor, Inc. (See Maucher, Hans, assignor.)
North Star Specialty & Manufacturing Company. (See Ohme, W. F., and Stephan, assignors.)
Norton Company. (See Flygare, Carl G., assignor.)
Norton Company. (See Williams, L. A., and Racine, assignors.)
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Envelope machinery. 2,170,422; Aug. 22.
Novick, Abraham, Flushing, assignor to F. L. Smithe Machine Co., Inc., New York, N. Y. Sheet feeding mechanism. 2,170,423; Aug. 22.
Nyström, Jean L. (See Dalenius, V. R. A., and Nyström.)
O'Beirne, Donald E., Waukesha, Wis. Observation unit for bees or the like. 2,170,210; Aug. 22.
Oelkers, Alfred H., Chicago, Ill. Impact forging. 2,170,519; Aug. 22.
Ohio Boxboard Company, The. (See Stocker, Frederick C., assignor.)
Ohio Crankshaft Company, The. (See Denneen, F. S., and Dunn, assignors.)
Ohlson, John B., Philadelphia, Pa., assignor to I. M. Jones, Milwaukee, Wis. Drying system. 2,170,763; Aug. 22.
Ohme, Walter F., and R. C. Stephan, assignors to North Star Specialty & Manufacturing Company, Minneapolis, Minn. Water-control system for machines for washing drinking vessels. 2,170,307; Aug. 22.
Oliver Machinery Company. (See Tuthill, H. B., and Caldwell, assignors.)
Opticolor, Incorporated. (See Waide, Merrill, assignor.)
Orders, J. B. (See Schumpert, Harry L., assignor.)
Örström, Gustaf, Alsten, assignor to Aktiebolaget Gerh. Archns Mekaniska Verkstad, Stockholm, Sweden. Container. 2,170,378; Aug. 22.
Ortt, Nellie F., New York, N. Y. Collapsible pet case. 2,170,379; Aug. 22.
Osborne, Horace A., assignor of two-fifths to Webster Electric Company, Racine, Wis. Machine tool. 2,170,211; Aug. 22.
Ovington, Edward J., Newton Highlands, Mass. Seamed articles and making it. 2,170,693; Aug. 22.
Owen, John J. (See Fasce, E. V., and Owen.)
Owens-Illinois Glass Company. (See Bauer, John E., assignor.)
Owens-Illinois Can Company. (See Creesy, G. B., and Prahl, assignors.)
Package Machinery Company. (See Lyon, Norman W., assignor.)
Package Machinery Company. (See Price, Robert M., assignor.)
Packless Metal Products Corporation. (See Guarnaschelli, Stephen, assignor.)
Page, Lionel F., Xenia, Ohio. Auxiliary circulating device for automobile heaters. 2,170,032; Aug. 22.
Painter, William H., East Orange, N. J., assignor to Radio Corporation of America. Electron discharge device. 2,170,663; Aug. 22.
Paper Patents Company. (See Fourness, Charles A., assignor.)
Parker, Herbert H. (See Stecher, J. L., and Parker.)
Parkersburg Rig. & Reel Company, The. (See De La Mater, Robert G., assignor.)
Parsons, Edward T., Upper Montclair, assignor to Thomson Machine Company, Belleville, N. J. Loaf molder and extender. 2,170,424; Aug. 22.
Patent Button Company, The. (See Carley, Leonard R., assignor.)
Patent Button Company, The. (See Peterson, F. H., and Clarke, assignors.)
Patock, Charles T., et al. (See Busch, Robert W., assignor.)
Paul, Frank V., New York, N. Y. Phonograph record. 2,170,090; Aug. 22.
Payne, Charles A., assignor to Newman Machine Co., Brockton, Mass. Apparatus for use in repairing commutators. 2,170,389; Aug. 22.
Payson, Arthur H., and C. O. Duevel, Jr., assignors to The American Thermos Bottle Company, Norwich, Conn. Wall bracket for bottles. 2,170,063; Aug. 22.
Peck, J. Eldon. (See Kerr, Ralph L., assignor.)
Penman, Montgomery B., assignor to Magee Carpet Company, Bloomsburg, Pa. Yarn swift. 2,170,764; Aug. 22.
Penn Electric Switch Co. (See Shaw, Burton E., assignor.)
Pennsylvania Crusger Company. (See Hartshorn, Stanley D., assignor.)
Pepperdine, Ben, Chicago, Ill. Combination puller. 2,170,461; Aug. 22.
Perey Manufacturing Company. (See Gersbach, H. A., and Bacon, assignors.)
Permutit Company, The. (See Riley, Ray, assignor.)
Perry, Charles L., Schenectady, N. Y., assignor to General Electric Company. Electromagnetic switch and system therefor. 2,170,694; Aug. 22.
Perry, Charles W., Montgomery, Ala. Fireplace boiler structure. 2,170,729; Aug. 22.
Peterman, Theodore A., Tacoma, Wash. Wheel suspension. 2,170,064; Aug. 22.
Peters, Orville S., Chevy Chase, Md., assignor to Baldwin-Southwark Corporation. Recorder apparatus. 2,170,505; Aug. 22.
Peterson, Frederick H., and R. R. Clarke, Watertown, assignors to The Patent Button Company, Waterbury, Conn. Tack button. 2,170,091; Aug. 22.
Peterson, Frederick H., and R. R. Clarke, Watertown, assignors to The Patent Button Company, Waterbury, Conn. Tack button. 2,170,092; Aug. 22.
Peterson, Hartin F. (See Test, E. W., Winther, and Petrson.
Peterson, Liss C., Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. High frequency amplifier. 2,170,645; Aug. 22.
Peterson, Robert G., et al. (See Boudreau, Willis J., assignor.)
Pfaudler Co., The. (See Goodwin, Melville J., assignor.)
Pfennig, Richard. (See Siefert, O., and Pfennig.)
Pfleger, George T., Los Angeles, Calif., assignor to U. S. Electrical Motors, Inc. Variable ratio transmission device. 2,170,212; Aug. 22.
Phillips, Harold P., assignor to Hastings Manufacturing Company, Hastings, Mich. Inner piston expanding spring. 2,170,276; Aug. 22.
Phillips Petroleum Company. (See Frey, Frederick E., assignor.)
Phillips Petroleum Company. (See Hamilton, Thomas J., assignor.)
Phillips Petroleum Company. (See Knowlton, D. R., and Murphy, assignors.)
Phillips Petroleum Company. (See Stephens, James P., assignor.)
Phillips Petroleum Company. (See Stephens, J. P., and Hamilton, assignors.)
Pierce, John B., Foundation. (See Strong, William E. S., assignor.)
Pierson, Torvald N., assor to Gleaner Harvester Corporation, Independence, Mo. Clutch operating mechanism. 2,170,572; Aug. 22.
Pierson, Torvald N., assignor to Gleaner Harvester Corporation, Independence, Mo. Grain pan raising and lowering mechanism. 2,170,573; Aug. 22.

Pike, Otis W., Schenectady, N. Y., assignor to General Electric Company. Discharge device. 2,170,695; Aug. 22.

Pines, Herman. (See Ipatieff, V., and Pines.)

Pines Winterfront Company. (See Agerell, W. C., and Mueller, assignors.)

Pitney-Bowes Postage Meter Company. (See Thatcher, Linden A., assignor.)

Pittinger, Alphonse H. (See Pittinger, Fred W., assignor.)

Pittinger, Fred W., assignor of one-half to A. H. Pittinger, Akron, Ohio. Sliding marker for number game cards. 2,170,033; Aug. 22.

Pittman, O. C. (See Massey, Emmett, assignor.)

Pittman, Ralph R., and C. H. Walsh, Pine Bluff, Ark. Surge-protected circuit interrupter. 2,170,337; Aug. 22.

Place, Bion C., assignor to one-half to George E. Gagnier, Detroit, Mich. Fastener. 2,170,483; Aug. 22.

Plummer, Jesse L., and C. Sullivan, Kansas City, Mo. Landing indicator for airports. 2,170,338; Aug. 22.

Podgorny, Joseph. (See Motkowicz, C., and Podgorny.)

Pogoda, Rudolf. (See Waxman, C. F., and Pogoda.

Poor & Company. (See Gadd, William E., assignor.)

Popivalo, Andrew C., Sanger, Calif. Door check. 2,170,156; Aug. 22.

Porter, Irving D. (See Wynne, Robert J., assignor.)

Postal Telegraph-Cable Company (New York). (See Dalton, Harold R., assignor.)

Postal Telegraph-Cable Company (New York). (See Vernam, Gilbert S., assignor.)

Povandra, Frank V., Denver, Colo. Lifting jack. 2,170,595; Aug. 22.

Power Patents Company. (See Morgan, John D., assignor.)

Powers, Joseph H. (See West, L. S., Steuber, and Powers.)

Prahl, Frederick A. (See Cressy, G. B., and Prahl.)

Prat, Emile, Paris, France. Heat interchanger 2,170,484; Aug. 22.

Pratt, John W. (See Ricks, F., and Pratt.)

Pray, George E., Washington, D. C. Electronic switch device. 2,170,157; Aug. 22.

Prew, Robert H., Nashua, N. H. Internal combustion engine. 2,170,213; Aug. 22.

Price, Robert M., assignor to Package Machinery Company, Springfield, Mass. Bottle hooding machine. 2,170,765; Aug. 22.

Pringle, William A., Niagara Falls, N. Y., and C. J. Manuel, Dover, N. H., assignors to American Sales Book Company, Inc., Niagara Falls, N. Y. Portable autographic register. 2,170,093; Aug. 22.

Pullman-Standard Car Manufacturing Company. (See Test, E. W., Winther, and Peterson, assignors.)

Pump Engineering Service Corporation. (See Johnson, James P., assignor.)

Purves, Andrew, Holyoke, Mass. Fourdrinier manufacture. 2,170,308; Aug. 22.

Putnam, Mabel C., assignor to Clamp Nail Company, Chicago, Ill. Clamp nail and making same. 2,170,462; Aug. 22.

Quiggle, Dorothy, State College, Pa. Oxygen-absorbing solution. 2,170,596; Aug. 22.

Racine, Albert C. (See Williams, L. A., and Racine.)

Radioaktiengesellschaft D. S. Loewe. (See Schlesinger, Kurt, assignor.)

Radio Corporation of America. (See Latimer, C. W., Finch, Conklin, and Goldstine, assignors.)

Rodio Corporation of America. (See Painter, William H., assignor.)

Ranco Incorporated. (See Raney, Estel C., assignor.)

Rand, James H., Jr., Stamford, Conn. Movable guard for dry shavers. 2,170,215; Aug. 22.

Raney, Estel C., assignor to Ranco Incorporated, Columbus, Ohio. 2,170,426; Aug. 22.

Ratley, Harold M. (See Mitchell, A. S., and Ratley.)

Rau, Henry V., Amityville, assignor to Edwin B. Stimpson Company, Brooklyn, N. Y. Snap fastener. 2,170,216; Aug. 22.

Ray, Frank T. (See Ritter, Isaac B., assignor.)

Raynolds, James A., Jr., Elmhurst, assignor to The Atlantic Coast Fisheries Company, New York, N. Y. Producing molded products. 2,170,520; Aug. 22.

Rea, Philip M. (See Cailloux, J. F., and Rea.)

Reconstruction Finance Corporation. (See Hul, Matthew R., assignor.)

Reerink, Engbert H., and M. J. Druyvesteyn, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Rectifier tube. 2,170,034; Aug. 22.

Reeves, Byron H., Calumet City, Ill., assignor to Winer Manufacturing Co., Hammond, Ind. Garment. 2,170,339; Aug. 22.

Reiber, Harold G., Long Beach, assignor to Union Oil Company of California, Los Angeles, Calif. Purification of naphthenic acids. 2,170,506; Aug. 22.

Reich, Ernest, Budapest, Hungary. Electrical measuring instrument. 2,170,597; Aug. 22.

Reid, Elmer A., Morrisville, Pa. Tool for sharpening lawn mowers. 2,170,463; Aug. 22.

Reilly, Alfred F., North Attleboro, Mass. Catalytic lighter. 2,170,485; Aug. 22.

Remington Rand Inc. (See Andersen, Niels Y., assignor.)

Renner, Harold G., Detroit, Mich. Clinch nut and forming same. 2,170,290; Aug. 22.

Rennerfelt, Ivar, Djursholm Sweden. Decarbonizing a carbon holding metal, for instance pig iron. 2,170,158; Aug. 22.

Renshaw, Alfred P. B., Kingston Hill, assignor by mesne assignments, to Automatic Telephone & Electric Company Limited, London, England. Traffic control system. 2,170,160; Aug. 22.

Reynolds, Frank C., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Radiator construction. 2,170,427; Aug. 22.

Reynolds Metals Company. (See Whitfield, Marshall G., assignor.)

Reynolds Wire Co. (See Lacks, John P., assignor.)

Rhodes, Taylor C., St. Paul, assignor of one-half to L. S. Stenvig, Robbinsdale, Minn. Line spacing and paragraphing mechanism. 2,170,696; Aug. 22.

Rice, Clarence J., and V. A. Berghoefer, assignors to Sterling Engineering Company, Milwaukee, Wis. Heating system. 2,170,507; Aug. 22.

Rich, George R., assignor to Rich Manufacturing Corporation, Battle Creek, Mich. Alloy steel. 2,170,267; Aug. 22.

Rich, George R., assignor to Rich Manufacturing Corporation, Battle Creek, Mich. Alloy steel for the manufacture of motor valves. 2,170,268; Aug. 22.

Rich Manufacturing Corporation. (See Rich, George R., assignor.)

Richardson, Max C., assignor to Iron Fireman Manufacturing Company, Portland, Oreg. Stoker and furnace therefor. 2,170,277; Aug. 22.

Richardson Taylor-Globe Corporation, The. (See Marx, Frank A., assignor.

Riche, Arthur L., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill. Snap switch. 2,170,767; Aug. 22.

Richter, Richard, Oberlungwitz, Germany. Warp loom. 2,170,697; Aug. 22.

Richter, Robert, assignor to Carl Zeiss, Jena, Germany. Four-lens photo-objective. 2,170,428; Aug. 22.

Richter, Wolfgang D., Jr., Southampton, Pa. Knitting machine. 2,170,278; Aug. 22.

Ricks, Fred, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J. Method of and machine for making bags. 2,170,094; Aug. 22.

Ricks, Fred, and J. W. Pratt, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J. Lasting machine. 2,170,035; Aug. 22.

Ridgway, William F., assignor to The Ingersoll Milling Machine Company, Rockford, Ill. Drive mechanism. 2,170,159; Aug. 22.

Rieger, Wilhelm, Kassel-Wilhelmshohe, Germany. Apparatus for spinning prevention of traction wheels. 2,170,766; Aug. 22.

Rieman, Otto A., St. Louis, Mo. Electrical connecting device. 2,170,217; Aug. 22.

Riley, Amand C., et al. (See Burton, E. F., assignor.)

Riley, Henry B., et al. (See Burton, E. F., assignor.)

Riley, John F., et al. (See Burton, E. F., assignor.)

Riley, Ray, Long Island City, assignor to The Permutit Company, New York, N. Y. Making carbonaceous zeolites. 2,170,065; Aug. 22.

Riley, T. J., et al. (See Burton, E. F., assignor.)

Ritter, Isaac B., assignor of one-half to F. T. Ray, Philadelphia, Pa. Antisyphoning trap for plumbing fixtures. 2,170,390; Aug. 22.

Robertson, Robert R. (See Cornhouz, J. B., assignor.)

Robertson, Robert R. (See Sussin, M., assignor.)

Robinson, Joseph R., Pittsburgh, Pa. Stoker. 2,170,279; Aug. 22.

Rodieck, George J., Tyler, Tex. Apparatus for deterging radiators. 2,170,730; Aug. 22.

Rodth, Joseph R., New York, N. Y. Alarm lock. 2,170,521; Aug. 22.

Roeske, Walter F., Chicago, Ill. Cushion and mattress spring. 2,170,618; Aug. 22.

Röhm & Haas Company. (See Bruson, Herman A., assignor.)

Romander, Hugo, Irvington, assignor to Federal Telegraph Company, Newark, N. J. Temperature compensation device. 2,170,664; Aug. 22.

Ronk, George T., Lanark, Ill. Truck. 2,170,095; Aug. 22.

Rose, Alfred G., assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England. Apparatus for drawing plastic material. 2,170,309; Aug. 22.

Rose Brothers (Gainsborough) Limited. (See Rose, Alfred G., assignor.)

Rose, William K., New York, N. Y. Lateral control means for airplanes. 2,170,787; Aug. 22.

Rosenberg, Stig E., Brockton, Mass. Mechanism for edge staining leather and the like. 2,170,218; Aug. 22.

Rosenberg, Stig E., Brockton, Mass. Perforating machine. 2,170,646; Aug. 22.

Rosenberry, Homer R., Euclid, Ohio. Hydraulic jack. 2,170,464; Aug. 22.

Rosin, Maurice, Brooklyn, N. Y. Telephone system. 2,170,429; Aug. 22.

Roth, Sydney. (See Lombardo, J., assignor.)

Royal Battery Corporation. (See Foster, Alfred, assignor.)

Ruben, Samuel, New Rochelle, N. Y. Fluorescent lamp. 2,170,066; Aug. 22.

Ruppik, Herbert, Bochum, Germany. Yieldable core for casting heavy hollow steel blocks. 2,170,486; Aug. 22.

Rush, John W., Wilkinsburg, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Brake control means. 2,170,250; Aug. 22.

Russell, Robert P., Short Hills, N. J., assignor to Standard Oil Development Company. Voltolized oils and products thereof. 2,170,665; Aug. 22.

Russell, William W., Brookline, Mass. Washing machine. 2,170,096; Aug. 22.

Ruth, Edward S., assignor to Edwards and Company, Inc., Norwalk, Conn. Telephone system. 2,170,391; Aug. 22.

Rydberg, John T., Harrison, N. J. Directional control and stabilizing apparatus. 2,170,731; Aug. 22.

Safety Car Heating & Lighting Company, The. (See Godsey, Frank W., Jr., assignor.)

Saftien, Karl. (See Guenther, F., and Saftien.)

Sarver, Emmett F., assignor to E. L. Freeling, Kansas City, Mo. Fluid actuated coupler. 2,170,538; Aug. 22.

Sattler, Stephen, Tulsa, Okla. Collapsible copy holder. 2,170,161; Aug. 22.

Sauzedde, Claude, assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich. Hydraulic seal. 2,170,574; Aug. 22.

Sauzedde, Claude, assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich. Braking system. 2,170,575; Aug. 22.

Schaafsma, Albert, and J. M. Versteeg, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif. Dewaxing mineral hydrocarbon oils. 2,170,508; Aug. 22.

Schaefer, Joe, Pinckneyville, Ill. Wheel or pulley lock. 2,170,352; Aug. 22.

Scharff, Maurice R. (See Guilday, J. W., and Jeming, assignors.)

Schering Aktiengesellschaft. (See Butenandt, A., and Logemann, assignors.)

Schieferstein, Georg H., Berlin-Charlottenburg, Germany. Grinding and the like apparatus. 2,170,768; Aug. 22.

Schiff, Ludwig. (See Tarbox, J. P., and Schiff.)

Schlesinger, Kurt, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Television tube. 2,170,251; Aug. 22.

Schlesinger, Kurt, Berlin, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany. Transformation of relaxation oscillations. 2,170,252; Aug. 22.

Schmidt, Karl W., Nuremberg, Germany. Making water-soluble capsules for cosmetic purposes. 2,170,253; Aug. 22.

Schnaier, Milton, New York, N. Y. Smoking pipe. 2,170,430; Aug. 22.

Schnider, Otto, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J. 2,4-dioxo-3,3-dialkyltetrahydro-pyridine-6-carboxylic acids and their manufacture. 2,170,781; Aug. 22.

Schoberg, George E., Minneapolis, Minn. Toy balloon. 2,170,539; Aug. 22.

Schoenleber, Lawrence H., Clarinda, Iowa. Grade meter. 2,170,269; Aug. 22.

Schossberger, Arthur J. (See Leissner, Edward E., assignor.)

Schumacher, Earle E. (See Bouton, G. M., and Schumacher.)

Schumann, Robert, Dusseldorf, Germany. Small electric machine tool. 2,170,036; Aug. 22.

Schumpert, Harry L., assignor of two-thirds to J. B. Orders, Greenville, S. C. Reclining chair. 2,170,509; Aug. 22.

Schutz, Harold R., Toledo, Ohio, assignor to Libbey Glass Company. Banding apparatus. 2,170,610; Aug. 22.

Schwalenstöcker, Heinz. (See Frey, W., and Schwalenstöcker.)

Schwarz, Joachim, Irvington, N. J., assignor to Forstner Chain Corporation. Suspender construction. 2,170,340; Aug. 22.

Schwarzkopf, Hans H., assignor to N. V. Molybdenum Company, Reutte, Tyrol, Austria. Alloy. 2,170,431; Aug. 22.

Schwarzkopf, Paul, Reutte, Tyrol, Austria, assignor to American Cutting Alloys, Inc., New York, N. Y. Hard metal tool alloy. 2,170,432; Aug. 22.

Schwarzkopf, Paul, Reutte, Tyrol, Austria, assignor to American Cutting Alloys, Inc., New York, N. Y. Producing a hard metal alloy. 2,170,433; Aug. 22.

Scott, Kenneth D. (See Frech, T. W., Howard, and Scott.)

Scott & Williams, Incorporated. (See Houseman, Wilbur L., assignor.)

Scovill Manufacturing Company. (See Goepel, Arthur H., assignor.)

See, Douglas S., San Mateo, Calif., assignor to Leslie-California Salt Company. Iodine fixation and product thereof. 2,170,611; Aug. 22.

Segal, Samuel Brooklyn, N. Y. Roller skate. 2,170,162; Aug. 22.

Seigle, William R., Mamaroneck, assignor to Johns-Manville Corporation, New York, N. Y. Article of manufacture and making the same. 2,170,434; Aug. 22.

Seil, Gilbert E., Cynwyd, assignor to E. J. Lavino and Company, Philadelphia, Pa. Refractory. 2,170,254; Aug. 22.

Seller, Richard, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Ultra high frequency oscillator. 2,170,219; Aug. 22.

Selditz, Maurice. (See Hawkins, W. H., and Selditz.)

Semon, Waldo L., Silver Lake Village, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y. Accelerator of vulcanization. 2,170,037; Aug. 22.

Sendzimir, Tadeusz, Katowice, Poland, assignor to The American Rolling Mill Company, Middletown, Ohio. Rolling mill. 2,170,732; Aug. 22.

Servel, Inc. (See Grubb, Gunnar, assignor.)

Shadrick, Richard H. (See McElroy, I. E., and Shadrick.)

Shakespeare Company. (See Catron, Ty, assignor.)

Sharp, John H., Chicago, Ill. Churn. 2,170,280; Aug. 22.

Sharpe, John S., Haverford, Pa. Mechanical movement. 2,170,733; Aug. 22.

Shaver, James B., East Cleveland, Ohio. Air conditioning apparatus. 2,170,576; Aug. 22.

Shaw, Burton E., Bristol, assignor to Penn Electric Switch Co., Goshen, Ind. Switch unit. 2,170,341; Aug. 22.

Shawinigan Chemicals Limited. (See Benson, Gwyn, assignor.)

Shelby, Albert, Buffalo, N. Y. Device for straightening hair. 2,170,577; Aug. 22.

Shell Development Company. (See Joedicke, Fritz, assignor.)

Shell Development Company. (See Schaafsma, A., and Versteeg, assignors.)

Shelley, Ray G. (See Allen, M. C., and Shelley.)

Sheperdson, John W., assignor to Morgan Construction Company, Worcester, Mass. Shearing of material. 2,170,255; Aug. 22.

Shivers, Paul F., Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Controller for heating systems. 2,170,310; Aug. 22.

Sica, Ralph, Philadelphia, Pa. Dispensing valve. 2,170,619; Aug. 22.

Siefert, Otto, and R. Pfennig, Berlin-Reinickendorf, Germany, assignor to L. M. Gelb, New York, N. Y. Hair waving apparatus. 2,170,220; Aug. 22.

Siemens & Halske Aktiengesellschaft. (See Dannöhl, W., and Neumann, assignors.)

Siemens & Halske, Aktiengesellschaft. (See Gandtner, Valentin, assignor.)

Siemens & Halske, Aktiengesellschaft. (See Keinath, G., and Gruss, assignors.)

Signal Engineering & Manufacturing Company. (See Terjeson, Tellef A., assignor.)

Signal Engineering & Manufacturing Company. (See Wheelock, John H., assignor.)

Sims, Henry M., Tampa, Fla. Fertilizer distributor. 2,170,598; Aug. 22.

Sinclair, Charles W., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich. Wheel. 2,170,666; Aug. 22.

Singer, Alexander A. (See Jacobs, M. B., and Singer.)

Singer, Fred J., Rockville Centre, N. Y., assignor to American Telephone and Telegraph Company. Telephone and telegraph exchange system. 2,170,038; Aug. 22.

Skrepinsky, Constantin, Elizabeth, N. J., assignor to Standard Oil Development Company. Treating mineral oils. 2,170,620; Aug. 22.

Sloan, Harry E., Hartford, and G. A. Highberg, West Hartford, assignors to The Cushman Chuck Company, Hartford, Conn. Chuck. 2,170,769; Aug. 22.

Smenner, Herbert F., Muncie, Ind. Tip for draftsmen's mechanical pencils. 2,170,734; Aug. 22.

Smidth, F. L., & Company. (See Borch, Niels S., assignor.)

Smit, J. K., & Sons, Inc. (See Stone, J. M., and Taylor, assignors.)

Smith, Claude V., Emporia, Kans. Waterproof paint. 2,170,163; Aug. 22.

Smith, Edith P., Berkeley, Calif. Bowl. 2,170,311; Aug. 22.

Smith, Samuel H., Rocky River, Ohio. Egg turning mechanism for incubators. 2,170,789; Aug. 22.

Smith, Sidney R., Jr., Pittsfield, Mass., assignor to General Electric Company. Fuse support. 2,170,698; Aug. 22.

Smithe, F. L., Machine Co. (See Novick, Abraham, assignor.)

Smitmans, John A., assignor to United Engineering & Foundry Company, Pittsburgh, Pa. Water-lubricated bearing. 2,170,667; Aug. 22.

Snow, Ross C., New York, N. Y. Cabinet syringe. 2,170,281; Aug. 22.

Snyder, Gilbert J., South Bend, Ind., assignor to United States Gypsum Company, Chicago, Ill. Looper apparatus. 2,170,392; Aug. 22.

Society of Chemical Industry in Basle. (See Graenacher, C., Ackermann, and Bruengger, assignors.)

Society of Chemical Industry in Basle. (See Graenacher, C., and Meyer, assignors.)

Society of Chemical Industry in Basle. (See Kern, W., and Tobler, assignors.)

Society of Chemical Industry in Basle. (See Widmer, G., and Fisch, assignors.)

Socony-Vacuum Oil Company. (See Fisher, Gerald M., assignor.)

Soler, José, Buenos Aires, Argentina. Electromechanical apparatus. 2,170,487; Aug. 22.

Solodar, Abraham, Chicago, Ill. Printing method and apparatus therefor. 2,170,668; Aug. 22.

Sonneborn, L., Sons, Inc. (See Breth, Ferdinand W., assignor.)

Soref, Harry E., and J. K. Marshall, assignors to Master Lock Company, Milwaukee, Wis. Savings bank. 2,170,097; Aug. 22.
Sparklets Limited. (See Brewer, William, assignor.)
Spencer, Allard W., Winchester, assignor to J. P. Eustis Manufacturing Company, Cambridge, Mass. Wall fixture. 2,170,465; Aug. 22.
Sperry, Paul A., New Haven, Conn. Guider. 2,170,578; Aug. 22.
Sperry, Paul A., New Haven, Conn. Cloth finishing. 2,170,579; Aug. 22.
Sperry-Sun Well Surveying Company. (See Kothny, Gottdank L., assignor.)
Spiess, Georg, Leipzig, Germany. Method and device of feeding sheets to printing and other sheet working machines. 2,170,488; Aug. 22.
Spiess, Georg, Leipzig, Germany. Sheet feeding device. 2,170,489; Aug. 22.
Spikes, Robert L., assignor of one-third to F. M. Davis, Jr., and one-third to H. Johnson, Farmville, N. C. Oil-burning air heater. 2,170,735; Aug. 22.
Sports Equipment Mfg. Corp. (See Augenblick, Jack, assignor.)
Sprague, Lawrence H. (See Martin, Louis F., Jr., assignor.)
Stanco, Incorporated. (See Nelson, Franklin C., assignor.)
Standard Oil Development Company. (See Fasce, E. V., and Owen, assignors.)
Standard Oil Development Company. (See Langmyhr, George J., assignor.)
Standard Oil Development Company. (See Russell, Robert P., assignor.)
Standard Oil Development Company. (See Skrepinsky, Constantin, assignor.)
Standard Oil Development Company. (See Sweeney, William J. assignor.)
Standard Oil Development Company. (See Voorhies, Alexis, Jr., assignor.)
Standard Oil Development Company. (See Wiezevish, Peter J., assignor.)
Stanley, Frederic, New York, N. Y. Toy machine gun. 2,170,221; Aug. 22.
Stecher, Joseph L., Wilmington, Del., and H. H. Parker, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Combination valve and enclosure plate for high pressure reaction vessels. 2,170,353; Aug. 22.
Steele, Charles E., Olean, and J. Beck, Buffalo, N. Y. Artificial limb. 2,170,580; Aug. 22.
Stegmeier, Charles, Grimes, Calif. Gear-shifting mechanism. 2,170,736; Aug. 22.
Steiner, Frank G., Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah. Paper package. 2,170,540; Aug. 22.
Steiner Sales Company. (See Steiner, Frank G., assignor.)
Steinvig, Lennox S. (See Rhodes, Taylor C., assignor.)
Stephan, Ray C. (See Ohme, W. F., and Stephan.)
Stephen, George J., Richmond Hill, N. Y. Fishing lure. 2,170,067; Aug. 22.
Stephens, James P., Oklahoma City, Okla., assignor to Phillips Petroleum Company. Baffer. 2,170,355; Aug. 22.
Stephens, James P., and T. J. Hamilton, Oklahoma City, Okla., assignors to Phillips Petroleum Company. Baffer. 2,170,354; Aug. 22.
Stephenson, Samuel S., New York, assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y. Desk construction. 2,170,098; Aug. 22.
Sterling Engineering Company. (See Rice, C. J., and Berghoefer, assignors.)
Steuber, George A. (See West, L. S., Steuber, and Powers.)
Steudel, Hans, Dessau, Germany, assignor to Junkers Flugzeug- und-Motorenwerke Aktiengesellschaft. Bearing and making same. 2,170,039; Aug. 22.
Stevens, Henry W. (See Blackmon, Ethel, assignor.)
Stevens, William G., Jr., Sykesville, Md. Elevating and lower planter runners. 2,170,490; Aug. 22.
Stevenson, Frank, West Lawn, assignor to Howard Hosiery Company, Sinking Spring, Pa. Knitting apparatus. 2,170,621; Aug. 22.
Stewart, Carlton D., Swissvale, assignor to The Westinghouse Air Brake Company, Wilmerding, Pa. Automatic fuel-control device. 2,170,256; Aug. 22.
Stimpson, Edwin B., Company. (See Rau, Henry V., assignor.)
Stocker, Frederick C., assignor to The Ohio Boxboard Company, Rittman, Ohio. Display stand. 2,170,356; Aug. 22.
Stone, James M., Detroit, Mich., and R. H. Taylor, Millburn, N. J., assignors to J. K. Smit & Sons, Inc., New York, N. Y. Setting diamonds and making diamond tools. 2,170,164; Aug. 22.
Strauss, Oscar A., Milwaukee, Wis. Instrument for vaginal treatment. 2,170,222; Aug. 22.
Straussberger, Hans J (See Beers, J L., and Straussberger.)
Stricklen, Elza A., Del Rio, Tex. Veterinary dose gun. 2,170,599; Aug. 22.
Strong, William E. S., assignor to John B. Pierce Foundation, New York, N. Y. Composite building unit. 2,170,165; Aug. 22.
Stuart, Elizabeth R. B. (See Stuart, Kimberly, assignor.)
Stuart, Kimberly, Neenah, assignor of one-half to E. R. B. Stuart, Menasha, Wis. Cooking and baking utensil. 2,170,040; Aug. 22.
Stubings, Alfred J., Richmond, assignor to Tilling-Stevens Limited, Maidstone, Kent, England. Engine having diametrically opposed cylinders. 2,170,099; Aug. 22.
Submarine Signal Company. (See Williams, Robert L., assignor.)
Sullivan, Cornelius. (See Plummer, J. L., and Sullivan.)
Sullivan, Francis W., Cranston, R. I., assignor to United Wire & Supply Corporation. Combination capillary tube and bulb and making same. 2,170,612; Aug. 22.
Sullivan Machinery Company. (See Joy, Joseph F., assignor.)
Sullivan, Woodruff T., Norwich, Conn. Shuttleless loom. 2,170,770; Aug. 22.
Super Speed Press Corporation. (See Klingler, Francis, assignor.)
Sussin, Max, assignor to R. R. Robertson, Chicago, Ill. Suction printing frame. 2,170,622; Aug. 22.
Swanson, Ivar R. (See Hatch, C. T., and Swanson.)
Swant, Harold F., Council Bluffs, Iowa. Arch support. 2,170,737; Aug. 22.
Sweeney, William J., Westfield, N. J., assignor to Standard Oil Development Company. Gas analysis apparatus. 2,170,435; Aug. 22.
Sweet, George A., Milford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Making cutting dies and blade stock therefor. 2,170,166; Aug. 22.
Sylvania Industrial Corporation. (See Cornwell, Ralph T. K., assignor.)
Sylvania Industrial Corporation. (See Wallach, Roger N., assignor.)
Sylvester, William L., Lyndhurst, N. J. Towel cabinet. 2,170,223; Aug. 22.
Talon, Inc. (See Nedal, Peder, assignor.)
Tarbox, John P., Philadelphia, Pa., and L. Schiff, Berlin-Lichterfelde, Germany. Electric outdoor display system. 2,170,167; Aug. 22.
Tarr, Samuel. Chicago, Ill. Upholstered furniture. 2,170,224; Aug. 22.
Taylor, Burt E., Mount Vernon, and J. M. McClatchie, Middletown, assignors to The Borden Company, New York, N. Y. Labeling apparatus. 2,170,068; Aug. 22.
Taylor, Rutherford H. (See Stone, J. M., and Taylor.)
Tebo, William A., Anthony, R. I. Shuttle tension. 2,170,541; Aug. 22.
Technical Oil Tool Corporation. (See Culbertson, Joe W., assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Buschbeck, Werner, assignor.)
Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Seiler, Richard, assignor.)
Teletype Corporation. (See Zenner, Walter J., assignor.)
Terjesen, Tellef A., Hoboken, N. J., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Code setting device for signal systems. 2,170,100; Aug. 22.
Terry, Owen R., Detroit, Mich. Fountain pen filling device. 2,170,699; Aug. 22.
Test, Ellis W., Hinsdale, M. P. Winther, Waukegan, and H. F. Peterson, Chicago, Ill., assignors, by mesne assignments, to Pullman-Standard Car Manufacturing Company. Air conditioning system for railway cars. 2,170,101; Aug. 22.
Texas Company, The. (See Watson, Claude W., assignor.)
Thatcher, Linden A., Coscob, assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn Coin operated mailing machine 2,170,270; Aug. 22.
Thompson, Joseph C. (See Williams, B. M., and Thompson.)
Thompson, Joseph F., San Leandro, Calif. Camera. 2,170,583; Aug. 22.
Thompson, Lloyd O., Los Angeles, Calif. Ventilating lid cover. 2,170,738; Aug. 22.
Thompson, Richard C., Cohasset, assignor to F. E. Berry Jr. & Co., Inc., Boston, Mass. Cellular product and making the same. 2,170,102; Aug. 22.
Thomson Machine Company. (See Parsons, Edward T., assignor.)
Tilling-Stevens Limited. (See Stubings, Alfred J., assignor.)
Timken Roller Bearing Company, The. (See Baker, John B., assignor.)
Timken Roller Bearing Company, The. (See Clapper, Harland R., assignor.)
Timken Roller Bearing Company, The. (See Hektner, Joel, assignor.)
Timken Roller Bearing Company, The. (See Klamp, P., and Bergstrom, assignors.)
Tinnerman, Albert H. (See Tinnerman, George A., assignor.)
Tinnerman, George A., Rocky River, assignor to A. H. Tinnerman, Cleveland, Ohio. Joint or connection. 2,170,739; Aug. 22.
Tobler, Richard. (See Kern, W., and Tobler.)
Tornblom, Nils A., Chicago, Ill., assignor to Appleton Electric Company. Device for connecting cable to a box. 2,170,393; Aug. 22.
Torvik Gustav A., Bagley, Minn. Store-goods lifter. 2,170,357; Aug. 22.
Trabon Engineering Corporation. (See Hillis, David R., assignor.)

Travelo Corporation. (See Ware, Frank, assignor.)
Trible, Winthrop, and G. F. Heckman, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. Automatic position stop mechanism for machine tools. 2,170,510; Aug. 22.
Trico Products Corporation. (See Horton, Erwin C., assignor.)
Trojan Powder Company. (See Bronstein, Jesse B., Jr.)
Trojan Powder Company. (See Wyler, Joseph A., assignor.)
Truscon Steel Company. (See Bianco, Henry, assignor.)
Trussell Manufacturing Company. (See Cruzan, Charles C., assignor.)
Tuthill, Howard B., and H. F. Caldwell, assignors to Oliver Machinery Company, Grand Rapids, Mich. Combination bread slicing and wrapping machine. 2,170,312; Aug. 22.
Unge, Nils W., Stockholm, Sweden. Method and apparatus for effecting circulation of a liquid in a pipe system. 2,170,225; Aug. 22.
Union Asbestos & Rubber Company. (See Mosier, C., and Mohun, assignors.)
Union Oil Company of California. (See Gard, E. W., and Aldridge, assignors.)
Union Oil Company of California. (See Reiber, Harold G., assignor.)
Union Steel Products Company. (See Emigholz, Lawrence F., assignor.)
Union Steel Products Company. (See Hatch, C. T., and Swanson, assignors.)
United Engineering & Foundry Company. (See Smitmans, John A., assignor.)
United Shoe Machinery Corporation. (See Elliott, Harold E., assignor.)
United Shoe Machinery Corporation. (See Hart, Fred V., assignor.)
United Shoe Machinery Corporation. (See Ricks, Fred, assignor.)
United Shoe Machinery Corporation. (See Ricks, F., and Pratt, assignors.)
United Shoe Machinery Corporation. (See Sweet, George A., assignor.)
United Specialties Company. (See Moore, Clarence W., assignor.)
U. S. Electrical Motors, Inc. (See Pfleger, George T., assignor.)
United States Gypsum Company. (See Snyder, Gilbert J., assignor.)
United States Rubber Company. (See Fisher, Harry L., assignor.)
United Wire & Supply Corporation. (See Sullivan, Francis W., assignor.)
Universal Oil Products Company. (See Ipatieff, V., and Pines, assignors.)
Universal Oil Products Company. (See Kramer, Bernard L., assignor.)
Universal Oil Products Company. (See Morrell, Jacque C., assignor.)
Universal Oil Products Company. (See Nelson, Edwin F., assignor.)
Universal Paper Products Company. (See Amberg, Walter E., assignor.)
Van der Spek, Marinus A., Manhattan Beach, Calif. Drinking device. 2,170,282; Aug. 22.
Vanderveer, Ora G., Kansas City, Mo. Replaceable fuse plug. 2,170,168; Aug. 22.
Van Dyke, Owen, Jr. (See Hornback, Arch E., assignor.)
Vernam, Gilbert S., Hackensack, N. J., assignor to Postal Telegraph-Cable Company (New York), New York, N. Y. Automatic printing telegraph exchange system. 2,170,669; Aug. 22.
Versteeg, Johannes M. (See Schaafsma, A., and Versteeg.)
Vickers-Armstrongs Limited. (See Watson, John P., assignor.)
Vogel, William M., Bloomfield, N. J. Can. 2,170,436; Aug. 22.
Volckening, Henry G., Brooklyn, N. Y., assignor to Volckening Inc. Bottle brush. 2,170,740; Aug. 22.
Volckening Inc. (See Volckening, Henry G., assignor.)
Voll, Samuel T., Great Falls, Mont. Safety clearance lamp. 2,170,600; Aug. 22.
Von Henke, Edmund J., assignor to American Electric Fusion Corporation, Chicago, Ill. Welding machine transformer. 2,170,700; Aug. 22.
Von Werder, Fritz. (See Dalmer, O., and von Werder.)
Von Zeppelin, Helmut, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Treating metal mixtures. 2,170,394; Aug. 22.
Voorhees, Daniel W., Peru, Ill. Axle structure-steel farm truck. 2,170,522; Aug. 22.
Voorhies, Alexis, Jr., Baton Rouge, La., assignor to Standard Oil Development Company. Carrying out endothermic reactions. 2,170,437; Aug. 22.
Vossler, Henry. (See Mirando, F. A., and Vossler.)
Vutz, Wilhelm, assignor to New Idea, Inc., Coldwater, Ohio. Pitman rod connection. 2,170,041; Aug. 22.
Vutz, Wilhelm, assignor to New Idea, Inc., Coldwater, Ohio. Connection for pitman rods. 2,170,042; Aug. 22.
Waggaman, William H. (See Wilson, S. M., and Waggaman.)
Waide, Merrill, Miami, Fla., assignor to Opticolor, Incorporated, New York, N. Y. Optical apparatus. 2,170,438; Aug. 22.
Wainwright, Charles, Erie, Pa. Multistep intake unloader. 2,170,358; Aug. 22.
Walker, George W. (See Morrow, H. B., and Walker.)
Wallach, Roger N., Briarcliff Manor, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Display. 2,170,701; Aug. 22.
Walsh, Carroll H. (See Pittman, R. R., and Walsh.)
Walsh, James F., Chicago, Ill., and W. L. Morgan, Cranston, R. I., assignors to American Maize-Products Company. Starch composition and process. 2,170,271; Aug. 22.
Walsh, James F., Chicago, Ill., and W. L. Morgan, Cranston, R. I., assignors to American Maize-Products Company. Starch composition. 2,170,272; Aug. 22.
Wardwell, George W., Jr., Nichols, Conn., assignor to General Electric Company. Hydraulic operator. 2,170,702; Aug. 22.
Ware, Frank, Moorestown, N. J., assignor to Travelo Corporation, Philadelphia, Pa. Knitted fabric. 2,170,741; Aug. 22.
Watson, Claude W., Yonkers, assignor to The Texas Company, New York, N. Y. Treating hydrocarbon oil. 2,170,169; Aug. 22.
Watson, John P., Sidcup, assignor to Vickers-Armstrongs Limited, London, England. Controlling the output power of electric motors. 2,170,623; Aug. 22.
Watson-Williams Manufacturing Company. (See Blanchard, Joseph E., assignor.)
Watt, William H., McKeesport, Pa., assignor to Columbia Radiator Company. Method and apparatus for sorting and setting double-headed chaplets. 2,170,226; Aug. 22.
Waxman, Carl F., and R. Pogoda, San Francisco, Calif. Garment. 2,170,703; Aug. 22.
Weber, Ernst, Baretswil, Zurich, Switzerland. Collapsible baby carriage. 2,170,227; Aug. 22.
Webster Electric Company. (See Osborne, Horace A., assignor.)
Weil, Bert, assignor to Melba Machinery Royalty Corporation, New York, N. Y. Toasting machine. 2,170,170; Aug. 22.
Wemp, Ernest E., Detroit, Mich. Clutch control apparatus. 2,170,171; Aug. 22.
Wemp, Ernest E., Detroit, Mich. Clutch control. 2,170,172; Aug. 22.
Wenn, Floyd D., Binghamton, assignor to The Brewer-Titchener Corporation, Cortland, N. Y. Frictional brake lever. 2,170,511; Aug. 22.
West, Lewis S., Brighton, G. A. Steuber, Penfield, and J. H. Powers, Rochester; Genesee Valley Trust Company, executors of L. S. West, deceased, assignor to Despatch Shops, Inc., East Rochester, N. Y. Vehicle construction. 2,170,581; Aug. 22.
Western Paper Converting Company. (See Armstrong, Thomas, assignor.)
Western Pipe & Steel Company of California. (See Williams, George D., assignor.)
Westinghouse Air Brake Company, The. (See Aikman, Burton S., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, Clyde C., assignor.)
Westinghouse Air Brake Company, The. (See Farmer, C. C., and Baughman, assignors.)
Westinghouse Air Brake Company, The. (See Fitch, Ellery R., assignor.)
Westinghouse Air Brake Company. (See Hewitt, Ellis E., assignor.)
Westinghouse Air Brake Company, The. (See Hull, John B., assignor.)
Westinghouse Air Brake Company, The. (See Kirk, Walter B., assignor.)
Westinghouse Air Brake Company, The. (See McCune, Joseph C., assignor.)
Westinghouse Air Brake Company, The. (See Misner, George W., assignor.)
Westinghouse Air Brake Company, The. (See Rush, John W., assignor.)
Westinghouse Air Brake Company, The. (See Stewart, Carlton D., assignor.)
Westinghouse Electric & Manufacturing Company. (See Jennings, Oliver S., assignor.)
Westover, C. Edward, Chicago, Ill. Method of and means for producing castings. 2,170,103; Aug. 22.
Wheatley, John E., Norwood, Ohio. Nonpouring self-measuring dispensing container. 2,170,173; Aug. 22.
Wheeling Steel Corporation. (See Conner, Guy O., assignor.)
Wheelock, John H., Fitzwilliam, N. H., assignor to Signal Engineering & Manufacturing Company, New York, N. Y. Fault-indicating means for signal systems. 2,170,104; Aug. 22.
Whelan, Joseph. (See Nelson, Verner A., assignor.)
Whelan, Laurence J., Butte, Mont. Road sander. 2,170,360; Aug. 22.
Whiteacre-Greer Fireproofing Company, The. (See Estep, Arthur C., assignor.)
Whitehall Patents Corporation. (See Marinsky, Davis, assignor.)
Whitehall Patents Corporation. (See Morin, L. H., and Marinsky, assignors.)
Whitfield, Marshall G., Knoxville, Tenn., assignor to Reynolds Metals Company, New York, N. Y. Making ductile laminated metal. 2,170,361; Aug. 22.
Whitin Machine Works. (See Mitchell, Harry, assignor.)

Whitmore, Harry C., et al. (See Boudreau, Willis J., assignor.)
Whittlesey, Ralph E., Los Angeles, Calif. Pump jack. 2,170,313; Aug. 22.
Widmer, Gustave, Basel, and W. Fisch, Riehen, near Basel, assignors to Society of Chemical Industry in Basle, Basel, Switzerland. Manufacture of aminotriazines. 2,170,491; Aug. 22.
Wiegand, Albert P., assignor, by mesne assignments, to E. L. Wiegand, Pittsburgh, Pa. Heating means. 2,170,175; Aug. 22.
Wiegand, Edwin L., Pittsburgh, Pa. Electric resistance heating element. 2,170,174; Aug. 22.
Wiegand, Edwin L., Pittsburgh, Pa. Heating means. 2,170,176; Aug. 22.
Wiegand, Edwin L. (See Wiegand, Albert P., assignor.)
Wienke, Emil J., assignor to Motiograph, Inc., Chicago, Ill. Projector stand. 2,170,466; Aug. 22.
Wiezevich, Peter J., Elizabeth, N. J., now by judicial change of name P. J. Gaylor, assignor to Standard Oil Development Company. Elastic fiber. 2,170,439; Aug. 22.
Wilcox, Edgar M., Chicago, Ill. Track skate. 2,170,523; Aug. 22.
Wilkerson, Edward D., Orange, N. J. Antirattle spring saddle brace. 2,170,177; Aug. 22.
Williams, Alden H., et al. (See Green, Clifton F., assignor.)
Williams, Benjamin M., and J. C. Thompson, assignors to Gaylord Container Corporation, St. Louis, Mo. Skid attachment for containers. 2,170,283; Aug. 22.
Williams, George D., South San Francisco, assignor to Western Pipe & Steel Company of California, San Francisco, Calif. Pipe-coating machine. 2,170,314; Aug. 22.
Williams, Ira, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Salts of 2-mercapto-benzothiazole. 2,170,670; Aug. 22.
Williams, Lewis A., Shrewsbury, and A. C. Racine, assignors to Norton Company, Worcester, Mass. Cylindrical grinding machine for shoulder grinding. 2,170,613; Aug. 22.
Williams, N. T., et al. (See Cousart, Eddie C., assignor.)
Williams, Robert L., Newton, assignor to Submarine Signal Company, Boston, Mass. Vibratory apparatus. 2,170,178; Aug. 22.
Wilson & Co. (See Dimond, Lloyd E., assignor.)
Wilson, Ira G. (See Anderson, F. B., Clement, and Wilson.)
Wilson, Stansbury M., and W. H. Waggaman, Baltimore, Md., assignors to Baugh & Sons Company, Philadelphia, Pa. Producing material for purifying liquids. 2,170,601; Aug. 22.
Winer Manufacturing Co. (See Reeves, Byron H., assignor.)
Winther, Martin P. (See Test, E. W., Winther, and Peterson.)
Wirth, Charles G., Fair Oaks, Pa. Electrical connector. 2,170,359; Aug. 22.
Wolcott, Hollis W., Mount Vernon, Ohio. Pick or plectrum. 2,170,179; Aug. 22.
Wolter, Robert, Cologne, Germany. Slide gauge. 2,170,582; Aug. 22.
Wonderly, Robert L., Canton, Ohio. Universal joint. 2,170,315; Aug. 22.
Wood, George E., et al. (See Green, Clifton F., assignor.)
Wood, J. W., Elastic Web Co. (See Lord, Howard F., assignor.)
Wood Newspaper Machinery Corporation. (See Jordhoy, Hans C., assignor.)
Worrall, Gladstone W., Northwich, England, assignor to Imperial Chemical Industries Limited. Coating process. 2,170,043; Aug. 22.
Worthy, Drannan C. (See Crocker, I. B., and Worthy.)
Wyler, Joseph A., assignor to Trojan Powder Company, Allentown, Pa. Preparation of pentaerythritol. 2,170,624; Aug. 22.
Wyler, Joseph A., assignor to Trojan Powder Company, Allentown, Pa. Stabilization of aldehydes. 2,170,625; Aug. 22.
Wynne, Robert J., Bellwood, Ill., assignor to I. D. Porter. Label-removing machine. 2,170,044; Aug. 22.
Yingling, Frank B., Hamilton, Ohio. Locomotive. 2,170,742; Aug. 22.
Youker, Malcolm P., Bartlesville, Okla., assignor, by mesne assignments, to The Gray Processes Corporation, Jersey City, N. J. Vapor phase filtering process for the treatment of hydrocarbon vapors. 2,170,180; Aug. 22.
Zeiss, Carl. (See Richter, Robert, assignor.)
Zenner, Walter J., Des Plaines, assignor to Teletype Corporation, Chicago, Ill. Printing telegraph apparatus. 2,170,316; Aug. 22.
Zoub, Erazm, New York, N. Y. Safety device for cash registers or the like. 2,170,362; Aug. 22.
Zwilling, Theodor, Kiel-Wellingdorf, Germany, assignor to La Mont Corporation, New York, N. Y. Forced circulation vapor generator. 2,170,790; Aug. 22.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Disk edging machine, Rotary. H. L. Myers. Re. 21,180; Aug. 22.
Engine, Internal combustion. J. A. H. Barkelj. Re. 21,177; Aug. 22.
Refrigeration apparatus. G. F. Forsthoefel. Re. 21,178; Aug. 22.
Signal device. A. E. and L. Rittenhouse. Re. 21,181; Aug. 22.
Wheel disk, Ornamental. G. A. Lyon. Re. 21,179; Aug. 22.

LIST OF DESIGN INVENTIONS

Aeroplane. P. S. L. West. 116,326; Aug. 22.
Amplifier or the like. P. J. Faber. 116,261–2; Aug. 22.
Ashtray and candle holder or similar article, Combined. H. Rithner. 116,242; Aug. 22.
Ashtray or similar article. H. A. Fuld. 116,225; Aug. 22.
Bedstead. S. P. Shurcliff. 116,244; Aug. 22.
Bottle. K. C. Love. 116,236; Aug. 22.
Bottle or similar article. F. E. A. W. Bergaud. 116,214; Aug. 22.
Bowl and brush, Combined manicure. M. McKeen. 116,272; Aug. 22.
Bowl or similar article, Sugar. F. W. Stark. 116,249; Aug. 22.
Bowl or similar article, Sugar. F. W. Stark. 116,251; Aug. 22.
Box. F. McIntosh. 116,271; Aug. 22.
Box, Bread. W. Garten. 116,228–9; Aug. 22.
Box, Cake. W. Garten. 116,227; Aug. 22.
Bracelet. A. Katz. 116,288; Aug. 22.
Brooch or similar article. A. Katz. 116,233; Aug. 22.
Brooch or similar article. A. Katz. 116,289; Aug. 22.
Building. J. A. Chambers. 116,219; Aug. 22.
Cabinet, Loud speaker. A. W. Wells. 116,316; Aug. 22.
Cap for cash register control keys, Cushion. G. W. Munson. 116,238; Aug. 22.
Card, Baseball schedule. N. J. Pauly. 116,239; Aug. 22.
Case, Vanity. F. McIntosh. 116,232; Aug. 22.
Casing, Compressor. A. C. Radtke. 116,241; Aug. 22.
Casing for suction cleaners or similar articles. H. Dreyfuss. 116,221; Aug. 22.
Cellarette, Console bar. D. Dillon. 116,281; Aug. 22.
Chair. W. H. Holzinger. 116,231; Aug. 22.
Chair, Bridge. D. Dillon. 116,282; Aug. 22.
Charm or the like. W. Lampl. 116,324; Aug. 22.
Chest. S. P. Shurcliff. 116,245; Aug. 22.
Clip, Pin. J. H. Leff. 116,290; Aug. 22.
Clip, Pin. A. Philippe. 116,291–7; Aug. 22.
Clock. L. Y. Boobarin. 116,257; Aug. 22.
Coat. D. Kaplan. 116,286–7; Aug. 22.
Coat. M. G. Rosenfeld. 116,298; Aug. 22.
Coffeepot or similar article. F. W. Stark. 116,248; Aug. 22.
Coffeepot or similar article. F. W. Stark. 116,250, Aug. 22.
Connector, Brace. L. E. Baer. 116,276; Aug. 22.
Die head. C. H. Ingwer and C. E. Wright. 116,266; Aug. 22.
Dish or similar article. G. N. Allen and P. L'Anglais. 116,211; Aug. 22.
Dispenser and tooth brush holder, Combined tooth powder. A. A. Anthony. 116,254; Aug. 22.
Dress. E. Breer. 116,304–5; Aug. 22.
Dress. E. H. Glover. 116,284; Aug. 22.
Dress. J. J. Kushner. 116,309; Aug. 22.
Dress. S. J. Poster. 116,311; Aug. 22.
Dress. D. W. Price. 116,312; Aug. 22.
Dress. D. W. Price. 116,331; Aug. 22.
Dress. P. Zahn. 116,303; Aug. 22.
Dress ensemble. E. Breer. 116,306; Aug. 22.
Dress ensemble. A. Engel. 116,283; Aug. 22.
Dress ensemble. R. Haon. 116,285; Aug. 22.
Dress ensemble. L. G. Rizsak. 116,313; Aug. 22.
Dress ensemble. H. Roher. 116,315; Aug. 22.
Dwelling. O. M. Summers. 116,247; Aug. 22.
Electrician's test set. A. J. Heldt. 116,329; Aug. 22.
Fabric, Textile. L. Bry. 116,327; Aug. 22.
Fabric, Textile. A. Tillman. 116,328; Aug. 22.
Fastener or similar article, Monogrammed necktie. C. Silverman. 116,275; Aug. 22.
Floor scrubbing and polishing machine, Combined. R. A. Posch. 116,330; Aug. 22.
Floor treating machine, Rotary. H. C. Chase. 116,220; Aug. 22.
Fudge warmer or similar article. F. R. Lacy, Jr. 116,234; Aug. 22.
Game board. S. P. Butrim. 116,217; Aug. 22.
Game counter. O. W. Ryan. 116,325; Aug. 22.
Gown, Evening. H. Borman. 116,278–80; Aug. 22.
Guard, Bumper. W. C. Huber. 116,308; Aug. 22.
Guard, Grille. G. F. Bahr. 116,255–6; Aug. 22.
Handbag. S. Nathan. 116,274; Aug. 22.
Indicator, Aircraft landing wheel position. P. F. Bechberger. 116,277; Aug. 22.
Lamp, Animated decorative. A. B. Leech. 116,268; Aug. 22.
Lamp shade. J. M. Angeletti. 116,212; Aug. 22.
Manicure applicator and cleaning device, Combination. M. T. Brekke. 116,216; Aug. 22.
Mirror, match box holder and ashtray, Combination. J. Kay. 116,267; Aug. 22.
Mounting, Ophthalmic. R. T. Cook. 116,258–9; Aug. 22.
Nail, Decorative. H. Chalfin. 116,218; Aug. 22.
Neckpiece, Flexible. M. Silverman. 116,246; Aug. 22.
Piano. H. R. Heller. 116,264; Aug. 22.
Pipe extension, Exhaust. L. E. Russell. 116,299–301; Aug. 22.
Plaque. M. M. Ferguson. 116,263; Aug. 22.
Press, Arbor. S. Mandl. 116,269; Aug. 22.
Pump, Radial. H. Van Doren and G. Geiger. 116,253; Aug. 22.
Pump unit, Radial. H. Van Doren and G. Geiger. 116,252; Aug. 22.
Rack or similar article, Display. E. R. Erickson. 116,224; Aug. 22.
Rack, Piano music. H. R. Heller. 116,265; Aug. 22.
Radio receiver, Portable. H. C. Mattes. 116,270; Aug. 22.
Ring, Finger. E. L. Manchester. 116,237; Aug. 22.
Scale, Weighing. H. Unschuld. 116,302; Aug. 22.
Shaker, pepper shaker and stand therefor, Combined salt. H. Dearling. 116,260; Aug. 22.
Shaving device. A. M. Andrews. 116,332; Aug. 22.
Sign, Advertising. H. G. Baumhoff. 116,213; Aug. 22.
Signal, Electric traffic timing. J. J. Roberts. 116,314; Aug. 22.
Slicer and corer, Combined apple. T. W. Moore. 116,273; Aug. 22.
Slipper. I. Berman. 116,215; Aug. 22.
Slipper. L. J. Epstein. 116,223; Aug. 22.
Sprayer or similar article. H. C. J. Eick. 116,222; Aug. 22.
Stand and containers therefor, Combined manicure. W. B. Petzold. 116,240; Aug. 22.
Swing, Baby. A. D. Welsh. 116,317; Aug. 22.
Tire. R. C. Murphy. 116,310; Aug. 22.
Tool, Jeweler's combination. W. H. Lehrfeld. 116,235; Aug. 22.
Toy. J. W. Gibson. 116,230; Aug. 22.
Toy gun or similar article. S. I. Berger. 116,318; Aug. 22.
Tractor. V. F. Hobbs. 116,307; Aug. 22.
Tractor, Crawler. J. G. Heaslet. 116,319; Aug. 22.
Tractor, Wheel. J. G. Heaslet. 116,320; Aug. 22.
Trailer. W. L. C. Huxter. 116,321–3; Aug. 22.
Tray, Metal. L. M. Schnitzer. 116,243; Aug. 22.
Wastebasket or similar container. W. Garten. 116,226; Aug. 22.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 22D DAY OF AUGUST, 1939

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Abrading tool. L. O. Beard. 2,170,585; Aug. 22.
Accelerator of vulcanization. W. L. Semon. 2,170,037; Aug. 22.
Accounting device, Slip. A. M. Martin. 2,170,642; Aug. 22.
Acetic anhydride, Making. G. Benson. 2,170,002; Aug. 22.
Acid, Aliphatic sulphonic. H. Hoisten. 2,170,380; Aug. 22.
Acid esters of polyhydroxy compounds and monohydroxy alcohols, Preparation of mixed dicarboxylic. C. J. Malm and C. R. Fordyce. 2,170,030; Aug. 22.
Acids, Purification of naphthenic. H. G. Reiber. 2,170,506; Aug. 22.
Acoustic device. E. E. Mott. 2,170,571; Aug. 22.
Adhesive composition. W. L. Morgan. 2,170,273; Aug. 22.
Adjustable electric lamp. W. Knapp. 2,170,201; Aug. 22.
Advertising display, Illuminating. R. Lancelot. 2,170,641; Aug. 22.
Air conditioning apparatus. J. B. Shaver. 2,170,576; Aug. 22.
Air conditioning control system. C. W. Nessell. 2,170,388; Aug. 22.
Air conditioning system. G. D. Bower. 2,170,232; Aug. 22.
Air conditioning system for railway cars. E. W. Test. M. P. Winther, and H. F. Peterson. 2,170,101; Aug. 22.
Air filter. E. E. Hewitt. 2,170,074; Aug. 22.
Aircraft recording means. C. R. Kines. 2,170,383; Aug. 22.
Airplane indicator. H. L. McPherson. 2,170,087; Aug. 22.
Airplanes, Lateral control means for. W. K. Rose. 2,170,787; Aug. 22.
Alarm lock. J. R. Rodth. 2,170,521; Aug. 22.
Aldehydes, Stabilization of. J. A. Wyler. 2,170,625; Aug. 22.
Aligner. G. Mafera. 2,170,690; Aug. 22.
Alloy: *See*—
Tool alloy.
Alloy. G. M. Bouton and E. E. Schumacher. 2,170,650; Aug. 22.
Alloy. H. H. Schwarzkopf. 2,170,431; Aug. 22.
Aluminum, Electrodeposition of. F. C. Mathers and R. D. Blue. 2,170,375; Aug. 22.
Amines, Manufacture of. H. A. Bruson. 2,170,111; Aug. 22.
Amines, Production of tertiary aliphatic. B. Christ. 2,170,746; Aug. 22.
Amino-triazines, Manufacture of. G. Widmer and W. Fisch. 2,170,491; Aug. 22.
Amplifier, High frequency. L. C. Peterson. 2,170,645; Aug. 22.
Amplifier, Negative feedback. F. B. Anderson, A. W. Clement, and I. G. Wilson. 2,170,046; Aug. 22.
Amplifiers, Arrangement for shielding. V. Gandtner. 2,170,050; Aug. 22.
Animal trap. B. C. Chappell. 2,170,470; Aug. 22.
Antenna, Top cowl vehicle. H. Greenberg and P. Morrison. 2,170,684; Aug. 22.
Anthranilate and preparing same, Menthyl. M. S. Carpenter. 2,170,185; Aug. 22.
Apparatus for abraiding coatings from rods. J. E. Anderson. 2,170,672; Aug. 22.
Apparatus for grinding liquid or semisolid substances. L. K. V. Helstrup. 2,170,303; Aug. 22.
Apparatus for spinning prevention of traction wheels. W. Rieger. 2,170,766; Aug. 22.
Apparatus for testing magnetizable workpieces. F. Jähne. 2,170,371; Aug. 22.
Apparatus with scintillating effect, Illuminated advertising. A. Gentilini. 2,170,368; Aug. 22.
Appliance for protecting portions of a shoe during cleaning or polishing. M. M. Brennan. 2,170,652; Aug. 22.
Applicator, Liquid. V. G. Corel. 2,170,550; Aug. 22.
Arch support. H. F. Swant. 2,170,737; Aug. 22.
Article and making it, Seamed. E. J. Ovington. 2,170,693; Aug. 22.
Article of manufacture and making the same. W. R. Seigle. 2,170,434; Aug. 22.
Asphalt laying apparatus. F. Jiedicke. 2,170,330; Aug. 22.
Audio frequencies, Method and device for reducing and increasing. L. Gabrilovitch. 2,170,751; Aug. 22.
Automatic draft regulator. C. D. Montague. 2,170,728; Aug. 22.

Automobiles, Attachment for. C. W. De Porter. 2,170,552; Aug. 22.
Bags, Method of and machine for making. F. Ricks. 2,170,094; Aug. 22.
Bailer. T. J. Hamilton. 2,170,369; Aug. 22.
Bailer. J. P. Stephens. 2,170,355; Aug. 22.
Bailer. J. P. Stephens and T. J. Hamilton. 2,170,354; Aug. 22.
Baking powder. W. L. Morgan. 2,170,274; Aug. 22.
Baling press. A. J. Kruse. 2,170,084; Aug. 22.
Banding apparatus. H. R. Schutz. 2,170,610; Aug. 22.
Bank, Savings. H. E. Soref and J. K. Marshall. 2,170,097; Aug. 22.
Barrier, Submarine. J. J. Morrison and J. F. Howe. 2,170,481; Aug. 22.
Base construction. R. J. Brandt. 2,170,006; Aug. 22.
Bearing: *See*—
Water-lubricated bearing.
Bearing and making same. H. Steudel. 2,170,039; Aug. 22.
Bearing element, Replaceable shaft surfacing. E. F. Burton. 2,170,545; Aug. 22.
Bearing play, Apparatus for determining. H. R. Clapper. 2,170,493; Aug. 22.
Bearing shackle, Roller. J. W. Leighton. 2,170,455; Aug. 22.
Bearings, Apparatus for boring crank case. P. Joscher. 2,170,054; Aug. 22.
Bearingizing tool. S. A. Cogsdill. 2,170,631; Aug. 22.
Benzanthrone series, Compounds of the. E. T. Howell. 2,170,381; Aug. 22.
Benzimidazoles and making same. C. Graenacher and J. Meyer. 2,170,474; Aug. 22.
Binder, Ring. C. C. Cruzan. 2,170,260; Aug. 22.
Binders, Loose-leaf. E. Anthony. 2,170,106; Aug. 22.
Bit: *See*—
Rock bit.
Bituminous emulsion and preparing the same, Stable. C. L. McKesson. 2,170,152; Aug. 22.
Blocks, Producing glass building. J. E. Bauer. 2,170,602; Aug. 22.
Bobbin. F. E. Douglas. 2,170,773; Aug. 22.
Bobbin for wire weaving looms. J. P. Lacks. 2,170,334; Aug. 22.
Boiler structure, Fireplace. C. W. Perry. 2,170,729; Aug. 22.
Books, Apparatus for processing. H. W. Faeber. 2,170,049; Aug. 22.
Boot and shoe stretching and lengthening device, Combination. C. Gregory. 2,170,754; Aug. 22.
Boring bar holder. A. W. Kleiner. 2,170,246; Aug. 22.
Bottle cap. L. Abbotts. 2,170,045; Aug. 22.
Bottle hooding machine. N. W. Lyon. 2,170,760; Aug. 22.
Bottle hooding machine. R. M. Price. 2,170,765; Aug. 22.
Bowl. E. P. Smith. 2,170,311; Aug. 22.
Box: *See*—
Portable water color box.
Box construction, Paper. J. H. Lentine and V. Loigman. 2,170,759; Aug. 22.
Box for rolling stock for railways and tramways, Grease. J. U. Echevarria. 2,170,471; Aug. 22.
Brace, Antirattle spring saddle. E. D. Wilkerson. 2,170,177; Aug. 22.
Bracket for bottles, Wall. A. H. Payson and C. O. Ducvel, Jr. 2,170,063; Aug. 22.
Brake: *See*—
Fluid pressure brake. Magnetic track brake.
Brake beam. C. R. Busch. 2,170,120–2; Aug. 22.
Brake beam and head, Combination. C. R. Busch. 2,170,116; Aug. 22.
Brake beam, Trussed. C. R. Busch. 2,170,113; Aug. 22.
Brake beams, Making. C. R. Busch. 2,170,117; Aug. 22.
Brake control means. C. C. Farmer and G. W. Baughman. 2,170,237; Aug. 22.
Brake control means. J. W. Rush. 2,170,250; Aug. 22.
Brake control mechanism. J. B. Moore. 2,170,593; Aug. 22.
Brake gear device, Railway. E. A. Le Beau. 2,170,532; Aug. 22.
Brake head. C. R. Busch. 2,170,115; Aug. 22.
Brake lever, Frictional. F. D. Wenn. 2,170,511; Aug. 22.
Brake mechanism for motor vehicles. R. G. De La Mater. 2,170,128; Aug. 22.
Brake mechanism, Train. B. S. Aikman. 2,170,229; Aug. 22.
Brake release control, Hand. C. C. Farmer. 2,170,238; Aug. 22.
Braking system. C. Sauzedde. 2,170,575; Aug. 22.

Brick cleaning machine. E. C. Cousart. 2,170,783; Aug. 22.
Brush, Bottle. H. G. Volckening. 2,170,740; Aug. 22.
Building unit, Composite. W. E. S. Strong. 2,170,165; Aug. 22.
Burner: *See*—
Gas burner. Oil burner.
Burnishing, Method of and apparatus for. W. Lockhart. 2,170,533; Aug. 22.
Bushing, Rod-supporting. L. E. Humphries. 2,170,718; Aug. 22.
Butter cutting machine. L. Herber. 2,170,685; Aug. 22.
Cabinet: *See*—
Refrigerator cabinet. Towel cabinet.
Cable to a box, Device for connecting. N. A. Tornblom. 2,170,393; Aug. 22.
Calculating machine. C. Hamann. 2,170,406; Aug. 22.
Calendar. M. Hässler. 2,170,023; Aug. 22.
Calendar, Perpetual. C. W. Hillcourt. 2,170,408; Aug. 22.
Camera. J. F. Thompson. 2,170,583; Aug. 22.
Can. W. M. Vogel. 2,170,436; Aug. 22.
Can construction, Milk. T. Kestenbaum. 2,170,720; Aug. 22.
Can seam and making same, Soldered. A. G. Hopkins. 2,170,638; Aug. 22.
Cap: *See*—
Bottle cap.
Cap for collapsible tubes, Self-closing. G. Douglas. 2,170,588; Aug. 22.
Capsules for cosmetic purposes, Making water-soluble. K. W. Schmidt. 2,170,253; Aug. 22.
Car truck side frame. C. R. Busch. 2,170,118–9; Aug. 22.
Car truck side frame. C. R. Busch. 2,170,123; Aug. 22.
Carbon into light metals or light metal alloys, Introduction of graphitic. H. Borofski. 2,170,259; Aug. 22.
Carriage, Collapsible baby. E. Weber. 2,170,227; Aug. 22.
Carriage, Ink-motion. H. C. Jordhoy. 2,170,025; Aug. 22.
Case: *See*—
Collapsible pet case.
Cash register and accounting machine. K. Bullerjahn. 2,170,183; Aug. 22.
Caster. N. Y. Andersen. 2,170,257; Aug. 22.
Casting mechanism of typographical composing machines. V. C. J. Harrison. 2,170,263; Aug. 22.
Castings, Method of and means for producing. C. E. Westover. 2,170,103; Aug. 22.
Cellular product and making the same. R. C. Thompson. 2,170,102; Aug. 22.
Cellulose derivatives, Converting soluble into insoluble. W. Frey and H. Schwalenstöcker. 2,170,017; Aug. 22.
Centering device for drift recording instruments. J. W. Culbertson. 2,170,527; Aug. 22.
Chain: *See*—
Ornamental chain.
Chair: *See*—
Reclining chair.
Chaplets, Method and apparatus for sorting and setting double-headed. W. H. Watt. 2,170,226; Aug. 22.
Chest, Safety bill handling. R. E. Jackson. 2,170,245; Aug. 22.
Chuck. H. E. Sloan and G. A. Highberg. 2,170,769; Aug. 22.
Churn. J. H. Sharp. 2,170,280; Aug. 22.
Cigarette holder. A. T. McWane. 2,170,248; Aug. 22.
Cigarette package. J. S. Cromelin. 2,170,322; Aug. 22.
Circuit breaker. H. Ayers. 2,170,584; Aug. 22.
Circuit breaker. O. S. Jennings. 2,170,412; Aug. 22.
Circuit control device. C. W. Moore. 2,170,154; Aug. 22.
Circuit interrupter, Surge-protected. R. R. Pittman and C. H. Walsh. 2,170,337; Aug. 22.
Circuit system, Coupled. O. M. Dunning and C. T. Jacobs. 2,170,048; Aug. 22.
Circuits, Illuminating. M. A. Edwards and B. D. Bedford. 2,170,450; Aug. 22.
Clamp: *See*—
Neckband clamp.
Clamp and making the same, Battery hold-down. G. R. Harrison. 2,170,325; Aug. 22.
Cleaner: *See*—
Comb cleaner. Windshield cleaner.
Mop cleaner.
Clip: *See*—
Spring wire clip.
Clip and signal, Line release. P. C. Nicholson. 2,170,594; Aug. 22.
Clock, Alarm. H. Junghans. 2,170,079; Aug. 22.
Clock-driven indicator. F. Alderman. 2,170,743; Aug. 22.
Closure, Supplemental protective. W. N. Booth. 2,170,110; Aug. 22.
Cloth finishing. P. A. Sperry. 2,170,579; Aug. 22.
Cloth, Laminated. H. W. Klinger. 2,170,416; Aug. 22.
Clothesline reel, Spring-action. C. Motkowicz and J. Podgorny. 2,170,459; Aug. 22.
Clothespin. J. E. Lemoine. 2,170,204; Aug. 22.
Clutch control apparatus. E. E. Wemp. 2,170,171; Aug. 22.
Clutch control. E. E. Wemp. 2,170,172; Aug. 22.
Clutch operating mechanism. T. N. Pierson. 2,170,572; Aug. 22.
Coat hanger. R. W. Cantwell. 2,170,319; Aug. 22.
Coating process. G. W. Worrall. 2,170,043; Aug. 22.
Code setting device for signal systems. T. A. Terjesen. 2,170,100; Aug. 22.
Coin feeding apparatus. J. Kiss. 2,170,288; Aug. 22.
Coke cleaning device. G. J. Langmyhr. 2,170,660; Aug. 22.
Collapsible copy holder. S. Sattler. 2,170,161; Aug. 22.
Collapsible display container. F. A. Marx. 2,170,723; Aug. 22.
Collapsible pet case. N. F. Ortt. 2,170,379; Aug. 22.
Collector, Detachable. L. C. Fisher and W. H. Frank. 2,170,285; Aug. 22.
Colloidal composition. J. B. Bronstein, Jr. 2,170,629; Aug. 22.
Comb cleaner. R. W. Busch. 2,170,772; Aug. 22.
Combination lock ignition switch. E. Massey. 2,170,780; Aug. 22.
Combination puller. B. Pepperdine. 2,170,461; Aug. 22.
Commutators, Apparatus for use in repairing. C. A. Payne. 2,170,389; Aug. 22.
Compass, Torch. C. I. Ingwersen. 2,170,305; Aug. 22.
Composing machine and matrix therefor, Typographical. C. A. Albrecht. 2,170,001; Aug. 22.
Composition of matter. R. T. K. Cornwell. 2,170,632; Aug. 22.
Compounds of the androstane and pregnane series and producing the same. A. Butenandt and W. Logemann. 2,170,124; Aug. 22.
Connection for pitman rods. W. Vutz. 2,170,042; Aug. 22.
Connection, Pitman rod. W. Vutz. 2,170,041; Aug. 22.
Connector: *See*—
Detachable electrical connector. Electrical connector.
Container: *See*—
Collapsible display container. Dispensing container.
Liquid container.
Container. G. Örström. 2,170,378; Aug. 22.
Container closure retainer. C. J. Lehwald. 2,170,758; Aug. 22.
Containers, Adjustable closure for. J. W. McNeil. 2,170,335; Aug. 22.
Containers, Skid attachment for. B. M. Williams and J. C. Thompson. 2,170,283; Aug. 22.
Containers with powder or other comminuted material, Method of and apparatus for filling. C. F. Carter. 2,170,469; Aug. 22.
Control apparatus. E. C. Raney. 2,170,426; Aug. 22.
Control, Automatic fidelity. W. C. Hahn. 2,170,475; Aug. 22.
Control means for valves for concrete delivery pumps. O. Kaiser. 2,170,080; Aug. 22.
Control switch. W. C. Leonard. 2,170,374; Aug. 22.
Control system. P. S. Dickey. 2,170,344; Aug. 22.
Control system. P. S. Dickey. 2,170,346–8; Aug. 22.
Control system. R. M. Hardgrove. 2,170,350; Aug. 22.
Control system. H. E. Hartig. 2,170,072; Aug. 22.
Control system, Automatic. A. R. Mabey. 2,170,418; Aug. 22.
Control system, Remote. B. W. Jones. 2,170,688; Aug. 22.
Convertible tool. B. F. Caldwell. 2,170,125; Aug. 22.
Core, Collapsible. W. H. Cobi. 2,170,188; Aug. 22.
Core for casting heavy hollow steel blocks, Yieldable. H. Ruppik. 2,170,486; Aug. 22.
Core mounting. C. E. Meyerhoefer. 2,170,031; Aug. 22.
Core protractor. G. L. Kothny. 2,170,146; Aug. 22.
Cores, Method and apparatus for taking sample. P. Higgins, Jr. 2,170,716; Aug. 22.
Coupler, Fluid actuated. E. F. Sarver. 2,170,538; Aug. 22.
Coupling for shafts, Flexible. H. H. Berryman. 2,170,627; Aug. 2.
Cover: *See*—
Ventilating lid cover.
Covering for hot air furnaces, Insulating. C. Lengyel. 2,170,085; Aug. 22.
Covering material. A. D. MacNutt. 2,170,534; Aug. 22.
Crepe cellulosic product, Laminated. C. A. Fourness. 2,170,655; Aug. 22.
Curler, Hair. E. A. Hoysted. 2,170,785; Aug. 22.
Cushion and mattress spring. W. F. Roeske. 2,170,618; Aug. 22.
Cutter: *See*—
Meat cutter.
Cutter unit, Tiltable. A. B. Johnson. 2,170,687; Aug. 22.
Cylinder printing machine. K. Kaufmann. 2,170,027; Aug. 22.
Cylinders in motors, Mounting of. M. J.-B. Barbarou. 2,170,443; Aug. 22.
Damper structure. T. A. Misbach and S. O. Hammon. 2,170,726; Aug. 22.
Desk construction. S. S. Stephenson. 2,170,098; Aug. 22.
Detachable electrical connector. W. L. Kinnebrew. 2,170,287; Aug. 22.
Device for cutting films. S. P. Caldwell. 2,170,398; Aug. 22.
Diamonds and making diamond tools, Setting. J. M. Stone and R. H. Taylor. 2,170,164; Aug. 22.
Dies and blade stock therefor, Making cutting. G. A. Sweet. 2,170,166; Aug. 22.

Direction finding arrangement. E. Kramar. 2,170,659; Aug. 22.
Direction indicator. W. A. Jacobus. 2,170,370; Aug. 22.
Directional control and stabilizing apparatus. J. T. Rydberg. 2,170,731; Aug. 22.
Discharge device. O. W. Pike. 2,170,695; Aug. 22.
Dispenser. W. E. Amberg. 2,170,105; Aug. 22.
Dispensing container, Nonpouring self-measuring. J. E. Wheatley. 2,170,173; Aug. 22.
Dispensing valve. R. Sica. 2,170,619; Aug. 22.
Display. R. N. Wallach. 2,170,701; Aug. 22.
Display stand. F. C. Stocker. 2,170,356; Aug. 22.
Dolly for dismounting vehicle wheels. C. F. Green. 2,170,607; Aug. 22.
Door; *See*—
Refrigerator car door.
Door check. A. C. Poplvalo. 2,170,156; Aug. 22.
Door construction, Garage. W. D. Ferris. 2,170,295; Aug. 22.
Door operating device. C. A. Ellis. 2,170,014; Aug. 22.
Draw works having dual drive. W. D. Davidson. 2,170,365; Aug. 22.
Drinking device. M. A. Van der Spek. 2,170,282; Aug. 22.
Drip catching attachment for umbrellas. C. D. De Lamater. 2,170,236; Aug. 22.
Drive mechanism. W. F. Ridgway. 2,170,159; Aug. 22.
Drying system. J. B. Ohlson. 2,170,763; Aug. 22.
Dust evacuation device. S. O. Hanna. 2,170,324; Aug. 22.
Dye wheel. M. J. Goodwin. 2,170,712; Aug. 22.
Dyestuffs, Anthraquinone acid wool. H. R. Lee and D. X. Klein. 2,170,385; Aug. 22.
Dyestuffs, Azo. W. Kern and R. Tobler. 2,170,372; Aug. 22.
Dyestuffs containing hydroxy groups and making same, Drivatives of. C. Graenacher, F. Ackermann and H. Bruengger. 2,170,262; Aug. 22.
Elastic fabric, Reversible woven. H. F. Lord. 2,170,563; Aug. 22.
Elastic pipe joint. M. C. Allen and R. G. Shelley. 2,170,181; Aug. 22.
Electric capacitor. F. M. Clark. 2,170,782; Aug. 22.
Electric contact member. H. T. Bussmann. 2,170,317; Aug. 22.
Electric cut-out. R. S. Bennett. 2,170,676; Aug. 22.
Electric discharge apparatus. M. A. Edwards. 2,170,446–9; Aug. 22.
Electric discharge apparatus. H. W. Lord. 2,170,456–7; Aug. 22.
Electric discharge tube. O. Baier and A. Katsch. 2,170,648; Aug. 22.
Electric heater. L. Navias. 2,170,692; Aug. 22.
Electric incandescent lamp. E. Friederich and W. Meyer. 2,170,683; Aug. 22.
Electric meter. S. S. Green. 2,170,753; Aug. 22.
Electric outdoor display system. J. P. Tarbox and L. Schiff. 2,170,167; Aug. 22.
Electric regulation. F. W. Godsey, Jr. 2,170,193; Aug. 22.
Electrical connecting device. O. A. Rieman. 2,170,217; Aug. 22.
Electrical connector. C. G. Wirth. 2,170,359; Aug. 22.
Electrical distribution system. W. H. Frank. 2,170,298; Aug. 22.
Electromechanical apparatus. J. Soler. 2,170,487; Aug. 22.
Electromechanical system employing magneto-strictive devices, Electrical and. W. P. Mason. 2,170,206; Aug. 22.
Electron discharge device. W. H. Painter. 2,170,663; Aug. 22.
Electron discharge tube. G. J. Imboden. 2,170,410; Aug. 22.
Electron tube. R. Herzog and A. Katsch. 2,170,657; Aug. 22.
Elevator, Scoop. P. Bartholet. 2,170,231; Aug. 22.
Enamel composition. R. T. Hucks. 2,170,658; Aug. 22.
Endothermic reactions, Carrying out. A. Voorhies, Jr. 2,170,437; Aug. 22.
Engine; *See*—
Internal combustion engine. Rotary Diesel engine.
Engine arrangement in aircraft. W. Blume. 2,170,003; Aug. 22.
Engine having diametrically opposed cylinders. A. J. Stubings. 2,170,099; Aug. 22.
Envelope machine. A. Novick. 2,170,422; Aug. 22.
Esters and method, Cellulose. W. W. Heckert. 2,170,024; Aug. 22.
Esters of cellulose containing unsaturated acid radicals, Mixed. C. R. Fordyce and G. D. Hiatt. 2,170,016; Aug. 22.
Esters suitable as assistants for the textile and related industries, Sulpho-carboxylic. F. Guenther and K. Saftien. 2,169,998; Aug. 22.
Ethers, Preparation of cellulose. H. T. Clarke and C. J. Malm. 2,170,009; Aug. 22.
Eyelet. J. Cordeiro. 2,170,708; Aug. 22.
Fabric; *See*—
Elastic fabric. Knitted fabric.
Fabric for wire glass, Wire mesh. R. J. A. Ingouf. 2,170,719; Aug. 22.
Fastener; *See*—
Hair fastener. Snap fastener.
Fatigue testing machine. J. N. Kenyon. 2,170,640; Aug. 22.
Fastener. B. C. Place. 2,170,483; Aug. 22.
Feed, Poultry. B. Jurale. 2,170,562; Aug. 22.
Fertilizer distributor. H. M. Sims. 2,170,598; Aug. 22.
Fiber, Elastic. P. J. Wiezevich. 2,170,439; Aug. 22.
Filament of rayon from viscose. W. H. Glover and G. S. Heaven. 2,170,752; Aug. 22.
Filter; *See*—
Air filter.
Filter impregnating machine. F. B. Hale and F. A. Logan. 2,170,142; Aug. 22.
Fishing apparatus. D. H. Kyle. 2,170,476; Aug. 22.
Fishing lure. G. J. Stephen. 2,170,067; Aug. 22.
Flask, Separatory. M. B. Jacobs and A. A. Singer. 2,170,411; Aug. 22.
Flow head with adjustable flow bean. D. R. Knowlton and P. C. Murphy. 2,170,500; Aug. 22.
Fluid pressure brake. C. C. Farmer. 2,170,239; Aug. 22.
Fluid pressure brake. J. C. McCune. 2,170,086; Aug. 22.
Fluids, Process and apparatus for interacting. E. W. Gard and B. G. Aldridge. 2,170,496; Aug. 22.
Fluorescent lamp. S. Ruben. 2,170,066; Aug. 22.
Food and producing the same, Stock. H. Fattinger. 2,170,713; Aug. 22.
Food impelling mechanism. J. D. Ferry. 2,170,775; Aug. 22.
Food product. A. Musher. 2,170,155; Aug. 22.
Food products, Sterilizing. G. Grindrod. 2,170,196; Aug. 22.
Footwear traction device. M. Glenn. 2,170,138; Aug. 22.
Forced circulation vapor generator. T. Zwilling. 2,170,790; Aug. 22.
Forging, Impact. A. H. Oelkers. 2,170,519; Aug. 22.
Form apparatus for concrete construction. J. Lundin. 2,170,564; Aug. 22.
Form, Necktie. C. A. Chapel. 2,170,707; Aug. 22.
Fourdrinier manufacture. A. Purves. 2,170,308; Aug. 22.
Frame; *See*—
Car truck side frame. Suction printing frame.
Harness frame.
Frozen rail joint. W. E. Gadd. 2,170,018; Aug. 22.
Fuel. O. Headland. 2,170,326; Aug. 22.
Fuel combustion control system. W. H. Gille. 2,170,497; Aug. 22.
Fuel-control device, Automatic. C. D. Stewart. 2,170,256; Aug. 22.
Fuel control system, Reserve. E. M. Gavin. 2,170,136; Aug. 22.
Fuel feeding system. R. F. Bracke. 2,170,651; Aug. 22.
Fuel pump. J. P. Johnson. 2,170,530; Aug. 22.
Fur and the like and composition therefor, Carroting. C. F. Fabian. 2,169,997; Aug. 22.
Furnace for heating glass plates for tempering. L. J. B. Forbes. 2,170,749; Aug. 22.
Furniture. F. A. Eichel. 2,170,400; Aug. 22.
Furniture, Upholstered. S. Tarr. 2,170,224; Aug. 22.
Fuse plug, Replaceable. O. G. Vanderveer. 2,170,168; Aug. 22.
Fuse support. S. R. Smith, Jr. 2,170,698; Aug. 22.
Game, Apparatus for playing a table. O. Kind. 2,170,373; Aug. 22.
Garment. H. S. Kohler. 2,170,083; Aug. 22.
Garment. B. H. Reeves. 2,170,339; Aug. 22.
Garment. C. F. Waxman and R. Pogoda. 2,170,703; Aug. 22.
Garment hanger. C. A. Isaacson. 2,170,686; Aug. 22.
Garment hanger. W. C. Lyman. 2,170,479; Aug. 22.
Gas admixtures, Automatic indication of inflammable. G. Keinath and H. Gruss. 2,170,056; Aug. 22.
Gas analysis apparatus. W. J. Sweeney. 2,170,435; Aug. 22.
Gas burner. U. R. Goodale. 2,170,139; Aug. 22.
Gas mixtures, Producing hydrogen-enriched. E. Karwat. 2,170,265; Aug. 22.
Gases, Apparatus for separating. E. C. Furrer. 2,170,071; Aug. 22.
Gasket. G. T. Balfe. 2,170,363; Aug. 22.
Gate control device, Head. D. W. Karnes. 2,170,200; Aug. 22.
Gauge; *See*—
Slide gauge.
Gear generator. H. E. Kitchen. 2,170,608; Aug. 22.
Gear-shifting mechanism. C. Stegmeier. 2,170,736; Aug. 22.
Gear with hydraulic control, Two-speed step-up. M. J. B. Barbarou. 2,170,444; Aug. 22.
Generating system. R. R. Candor and D. F. Alexander. 2,170,546; Aug. 22.
Generator; *See*—
Forced circulation vapor generator. Gear generator.
Vapor generator.
Generators, Operating vapor. R. D. Junkins. 2,170,351; Aug. 22.
Girder, especially for aircraft, Light-weight. H. Moechel. 2,170,458; Aug. 22.
Glaze. J. D. Morgan. 2,170,387; Aug. 22.
Governing device. M. Johansson. 2,170,413; Aug. 22.
Governor. H. G. Adler. 2,170,744; Aug. 22.
Grab, Brick. J. P. Callaghan. 2,170,706; Aug. 22.

Grade crossing signal, Railroad. E. R. Anderson. 2,170,467; Aug. 22.
Grade meter. L. H. Schoenleber. 2,170,269; Aug. 22.
Grinding and the like apparatus. G. H. Schieferstein. 2,170,768; Aug. 22.
Grinding machine. H. Ernst and A. H. Dall. 2,170,494; Aug. 22.
Grinding machine. C. G. Flygare. 2,170,606; Aug. 22.
Grinding machine for shoulder grinding, Cylindrical. L. A. Williams and A. C. Racine. 2,170,613; Aug. 22.
Grinding wheel truing apparatus. C. G. Flygare. 2,170,605; Aug. 22.
Guard for dry shavers, Movable. J. H. Rand, Jr. 2,170,215; Aug. 22.
Guard for fishing reels, Hand. T. Catron. 2,170,186; Aug. 22.
Guider. P. A. Sperry. 2,170,578; Aug. 22.
Gun, Veterinary dose. E. A. Stricklen. 2,170,599; Aug. 22.
Hair, Device for straightening. A. Shelby. 2,170,577; Aug. 22.
Hair fastener. P. J. Graham. 2,170,636; Aug. 22.
Hair fastener. W. Huppert. 2,170,778; Aug. 22.
Hair waving apparatus. O. Siefert and R. Pfennig. 2,170,220; Aug. 22.
Hammer, Automatic magnetic tack. E. Blackmon. 2,170,468; Aug. 22.
Hammer mill. S. D. Hartshorn. 2,170,407; Aug. 22.
Hammer, Power. J. Holloway. 2,170,757; Aug. 22.
Hanger; *See*—
Coat hanger. Garment hanger.
Handle and component parts thereof, Knife. F. A. Mirando and H. Vossler. 2,170,537; Aug. 22.
Handle or lifting device for storage batteries. A. Foster. 2,170,750; Aug. 22.
Harness frame. J. E. Blanchard. 2,170,542; Aug. 22.
Hat-finishing machine. G. Hayes. 2,170,756; Aug. 22.
Headlighting system, Vehicle. T. W. Frech, E. A. Howard, and K. D. Scott. 2,170,682; Aug. 22.
Heat exchanger. L. Kooistra. 2,170,145; Aug. 22.
Heat interchanger. E. Prat. 2,170,484; Aug. 22.
Heat transfer device for corrugator rolls. H. B. Greenwood. 2,170,405; Aug. 22.
Heat treatment. J. G. Brush. 2,170,745; Aug. 22.
Heater; *See*—
Electric heater. Oil-burning air heater.
Heaters, Auxiliary circulating device for automobile. L. F. Page. 2,170,032; Aug. 22.
Heating element, Electric resistance. E. L. Wiegand. 2,170,174; Aug. 22.
Heating means. A. P. Wiegand. 2,170,175; Aug. 22.
Heating means. E. L. Wiegand. 2,170,176; Aug. 22.
Heating system. C. J. Rice and V. A. Berghoefer. 2,170,507; Aug. 22.
Heating systems, Controller for. P. F. Shivers. 2,170,310; Aug. 22.
Heels and quarter constructions, Making molded B. F. L. L., Jr., and A. F. Hartwell. 2,170,559; Aug. 22.
Hernia appliance. F. O. Hanson. 2,170,558; Aug. 22.
Hinge construction. A. J. Allen. 2,170,614; Aug. 22.
Holder; *See*—
Boring bar holder. Collapsible copy holder.
Cigarette holder.
Holder for record cards or sheets. J. W. Guilday and J. Jeming. 2,169,999; Aug. 22.
Hosiery and making the same. E. C. Lochhead. 2,170,149; Aug. 22.
Hosiery, Making. J. L. Beers and H. J. Straussberger. 2,170,615; Aug. 22.
Humidifier. W. W. Cummings, Jr. 2,170,551; Aug. 22.
Hydraulic jack. W. J. Liddell and L. C. Morse. 2,170,029; Aug. 22.
Hydraulic jack. H. R. Rosenberry. 2,170,464; Aug. 22.
Hydraulic operator. G. W. Wardwell, Jr. 2,170,702; Aug. 22.
Hydrocarbons, Conversion of. E. F. Nelson. 2,170,275; Aug. 22.
Hydrocarbons into gasoline, Converting normally gaseous. F. E. Frey. 2,170,367; Aug. 22.
Hydrocarbons, Treatment of. V. Ipatieff and H. Pines. 2,170,306; Aug. 22.
Hypochlorite solutions and method therefor, Stabilized. L. J. Barton. 2,170,108; Aug. 22.
Illuminator, Broad-tape. A. D. Eitzen. 2,170,133; Aug. 22.
Incubators, Egg turning mechanism for. S. H. Smith. 2,170,789; Aug. 22.
Indicator; *See*—
Airplane indicator. Long dash and light keying indicator.
Clock-driven indicator.
Direction indicator.
Indicator for ball-rolling games. B. G. MacDougall. 2,170,566; Aug. 22.
Ingot mold plug. A. C. Estep. 2,170,555; Aug. 22.
Inks, Making water printing. H. Hadert. 2,170,198; Aug. 22.
Inner piston expanding spring. H. P. Phillips. 2,170,276; Aug. 22.
Instrument for vaginal treatment. O. A. Strauss. 2,170,222; Aug. 22.
Insulating tape and making the same. C. Mosier and J. L. Mohun, Jr. 2,170,207; Aug. 22.
Intaglio roll. C. T. Hayes. 2,170,560; Aug. 22.
Internal combustion engine. H. Ford. 2,170,015; Aug. 22.
Internal combustion engine. M. Gerlach. 2,170,020; Aug. 22.
Internal combustion engine. E. T. Larkin. 2,170,058; Aug. 22.
Internal combustion engine. J. J. McCarthy. 2,170,151; Aug. 22.
Internal combustion engine. R. H. Prew. 2,170,213; Aug. 22.
Internal combustion motor, Rotary. J. C. Dominguez. 2,170,366; Aug. 22.
Iodine fixation and product thereof. D. S. See. 2,170,611; Aug. 22.
Iron; *See*—
Waffle iron.
Ironer, Neck band. M. Holloway. 2,170,075; Aug. 22.
Ironer, Puff sleeve. L. E. Holt. 2,170,591; Aug. 22.
Jack; *See*—
Hydraulic jack. Pump jack.
Lifting jack.
Joint; *See*—
Elastic pipe joint. Pipe joint.
Frozen rail joint. Universal joint.
Joint or connection. G. A. Tinnerman. 2,170,739.; Aug. 22.
Knike. H. Bartosek. 2,170,514; Aug. 22.
Knitted fabric. F. Ware. 2,170,741; Aug. 22.
Knitting apparatus. F. Stevenson. 2,170,621; Aug. 22.
Knitting machine. W. D. Richter, Jr. 2,170,278; Aug. 22.
Knitting machine, Flat full-fashioned. K. R. Lieberknecht. 2,170,148; Aug. 22.
Label-removing machine. R. J. Wynne. 2,170,044; Aug. 22.
Labeling apparatus. B. E. Taylor and J. M. McClatchie. 2,170,068; Aug. 22.
Lacquer. W. J. Clarke. 2,170,187; Aug. 22.
Lamp; *See*—
Adjustable electric lamp. Fluorescent lamp.
Electric incandescent lamp. Safety clearance lamp.
Lamp husk, Electric. E. I. Clemence. 2,170,399; Aug. 22.
Landing indicator for airports. J. L. Plummer and C. Sullivan. 2,170,338; Aug. 22.
Lapping or abraiding, Apparatus for. W. E. Hoke. 2,170,329; Aug. 22.
Lapping or grinding. W. E. Hoke. 2,170,328; Aug. 22.
Lasting machine. F. Ricks and J. W. Pratt. 2,170,035; Aug. 22.
Leader, Fishing line. J. Augenblick. 2,170,788; Aug. 22.
Leg, Supporting. H. P. Nordmark. 2,170,062; Aug. 22.
Lift, Fluid. I. B. Crocker and D. C. Worthy. 2,170,587; Aug. 22.
Lifter; *See*—
Store-goods lifter.
Lifting jack. F. V. Povandra. 2,170,595; Aug. 22.
Lighter, Catalytic. A. F. Reilly. 2,170,485; Aug. 22.
Lighting fixture. L. C. Doane. 2,170,189; Aug. 22.
Light projecting device. J. B. Ayral. 2,170,675; Aug. 22.
Limb, Artificial. C. E. Steele and J. Beck. 2,170,580; Aug. 22.
Line spacing and paragraphing mechanism. T. C. Rhodes. 2,170,696; Aug. 22.
Line tightener. W. J. Boudreau. 2,170,292; Aug. 22.
Lining, Flume and ditch. R. Adler. 2,170,671; Aug. 22.
Link for separable fasteners, Coupling. L. H. Morin and D. Marinsky. 2,170,421; Aug. 22.
Liquid container. J. G. Brewer. 2,170,007; Aug. 22.
Liquid dielectric compositions. G. H. Coleman and L. F. Berhenke. 2,169,995; Aug. 22.
Liquid in a pipe system, Method and apparatus for effecting circulation of a. N. W. Unge. 2,170,225; Aug. 22.
Liquid with a gas, Apparatus for mixing a. J. Kahn. 2,170,531; Aug. 22.
Loaf molder and extender. E. T. Parsons. 2,170,424; Aug. 22.
Lock; *See*—
Alarm lock. Wheel or pulley lock.
Lock construction. J. Lombardo. 2,170,205; Aug. 22.
Lock for telescopic standards. B. A. Dickerson. 2,170,679; Aug. 22.
Locomotive. F. B. Yingling. 2,170,742; Aug. 22.
Locomotive smokebox shroud and hinge therefor. J. L. Hearn. 2,170,302; Aug. 22.
Long dash and light keying indicator. C. W. Latimer, J. L. Finch, J. W. Conklin, and H. E. Goldstine. 2,170,203; Aug. 22.
Loom; *See*—
Shuttleless loom. Warp loom.
Looms, Let-off mechanism for. I. O. Moberg. 2,170,762; Aug. 22.
Looper apparatus. G. J. Snyder. 2,170,392; Aug. 22.
Lounge and furniture construction, Party. F. Kiesler. 2,170,382; Aug. 22.
Lubricant, Gear. G. M. Fisher. 2,170,495; Aug. 22.
Lubricating device. B. S. Aikman. 2,170,228; Aug. 22.
Machine for shaping soles. F. V. Hart. 2,170,022; Aug. 22.
Machine for cutting slide fastener strips. P. Medal. 2,170,609; Aug. 22.

Machine for slicing salmon. V. R. A. Dalenius and J. L. Nyström. 2,170,425; Aug. 22.
Machine tool. H. A. Osborne. 2,170,211; Aug. 22.
Machine tool, Small electric. R. Schumann. 2,170,036; Aug. 22.
Machine tool transmission. M. Martellotti. 2,170,502; Aug. 22.
Magnet of copper-cobaltnickel alloy, Permanent. W. Dannöhl and H. Neumann. 2,170,047; Aug. 22.
Magnetic track brake. J. B. Hull. 2,170,244; Aug. 22.
Mailing machine, Coin operated. L. A. Thatcher. 2,170,270; Aug. 22.
Manifolding. C. W. Brenn. 2,169,994; Aug. 22.
Manifolding set. G. W. Hall. 2,170,241; Aug. 22.
Marker for number game cards, Sliding. F. W. Pittinger. 2,170,033; Aug. 22.
Master controller. E. R. Fitch. 2,170,240; Aug. 22.
Material, Apparatus for gauging wetted. L. E. Dimond. 2,170,747; Aug. 22.
Material for purifying liquids, Producing. S. M. Wilson and W. H. Waggaman. 2,170,601; Aug. 22.
Material, Shearing of. J. W. Sheperdson. 2,170,255; Aug. 22.
Material to a sheet or web, Applying. W. F. Grupe. 2,170,140; Aug. 22.
Materials, Apparatus for treating. W. P. Cohoe. 2,170,678; Aug. 22.
Materials, Organic. H. Dreyfus. 2,170,190; Aug. 22.
Measuring instrument, Electrical. E. Reich. 2,170,597; Aug. 22.
Meat cutter. J. A. Arvanitis. 2,170,512; Aug. 22.
Mechanical movement. J. S. Sharpe. 2,170,733; Aug. 22.
Mechanism for edge staining leather and the like. S. E. Rosenberg. 2,170,218; Aug. 22.
Mechanism for feeding sheet material and the like. F. Klingler. 2,170,289; Aug. 22.
Mercaptothiazolines, Manufacture of. R. A. Mathes. 2,170,059; Aug. 22.
Message transmitting system. A. D. Eitzen. 2,170,132; Aug. 22.
Metal alloy, Producing a hard. P. Schwarzkopf. 2,170,433; Aug. 22.
Metal article, Method of and apparatus for hardening a. F. S. Denneen and W. C. Dunn. 2,170,130; Aug. 22.
Metal, for instance pig iron, Decarbonizing a carbon holding. I. Rennerfelt. 2,170,158; Aug. 22.
Metal, Making ductile laminated. M. G. Whitfield. 2,170,361; Aug. 22.
Metal mixtures, Treating. H. von Zeppelin. 2,170,394; Aug. 22.
Meter: *See*—
  Electric meter.
Mill: *See*—
  Hammer mill. Rolling mill.
Milling machine. M. Martellotti and H. Ernst. 2,170,503; Aug. 22.
Mineral separation, Apparatus for. M. Constant. 2,170,069; Aug. 22.
Mining machine. J. F. Joy. 2,170,331; Aug. 22.
Molded products, Producing. J. A. Raynolds, Jr. 2,170,520; Aug. 22.
Mop cleaner, Vacuum. J. P. Gibbons. 2,170,528; Aug. 22.
Mortician's appliance. R. E. Marquardt. 2,170,724; Aug. 22.
Motor: *See*—
  Internal combustion motor.
Motor operating with heavy liquid fuel, High speed. R. P. F. Lemasson. 2,170,477; Aug. 22.
Motors, Controlling the output power of electric. J. P. Watson. 2,170,623; Aug. 22.
Mounting: *See*—
  Core mounting.
Movement rest for watches. C. G. Marsden. 2,170,535; Aug. 22.
Multiplying machine and impulse emitter therefor. J. W. Bryce. 2,170,544; Aug. 22.
Multiplying machine, Key punch. J. W. Bryce. 2,170,543; Aug. 22.
Musical instrument, Electrical stringed. R. Dopyera. 2,170,294; Aug. 22.
N-lower-dialkyl-cumarin-3-carbonylamides and producing them. O. Dalmer and F. von Werder. 2,170,127; Aug. 22.
Nail and making same, Clamp. M. C. Putnam. 2,170,462; Aug. 22.
Neckband clamp. E. N. Neckel. 2,170,061; Aug. 22.
Needle-lubricating mechanism. H. E. Elliott. 2,170,554; Aug. 22.
Nonfreeze tip-up. O. P. Eggleston. 2,170,000; Aug. 22.
Nozzle for fuel tanks, Filling. W. Mainzer. 2,170,722; Aug. 22.
Nut and forming same, Clinch. H. G. Renner. 2,170,290; Aug. 22.
Nuts, Apparatus for and process of making. J. A. Fitch. 2,170,473; Aug. 22.
Nuts to metal plates or similar articles or members, Attaching. J. A. Fitch. 2,170,472; Aug. 22.
Observation unit for bees or the like. D. E. O'Beirne. 2,170,210; Aug. 22.
Oil burner. C. Merritt. 2,170,480; Aug. 22.
Oil-burning air heater. R. L. Spikes. 2,170,735; Aug. 22.
Oil controlling mechanism. H. R. Mason. 2,170,725; Aug. 22.
Oil, Treating hydrocarbon. C. W. Watson. 2,170,169; Aug. 22.
Oils and products thereof, Voltolized. R. P. Russell. 2,170,665; Aug. 22.
Oils, Conversion of hydrocarbons. B. L. Kramer. 2,170,333; Aug. 22.
Oils, Dewaxing mineral hydrocarbon. A. Schaafsma and J. M. Versteeg. 2,170,508; Aug. 22.
Oils, Refining lubricating. F. W. Breth. 2,170,628; Aug. 22.
Oils, Treating mineral. C. Skrepinsky. 2,170,620; Aug. 22.
Oils, Treatment of hydrocarbon. J. C. Morrell. 2,170,336; Aug. 22.
Optical apparatus. M. Waide. 2,170,438; Aug. 22.
Ornamental chain. W. F. Hess. 2,170,073; Aug. 22.
Oscillations, Transformation of relaxation. K. Schlesinger. 2,170,252; Aug. 22.
Oscillator, Ultra high frequency. R. Seiler. 2,170,219; Aug. 22.
Outlet construction, Continuous. W. H. Frank. 2,170,299–300; Aug. 22.
Oven, Stove. R. W. Hoffman and O. F. Juenger. 2,170,409; Aug. 22.
Oxygen-absorbing solution. D. Quiggle. 2,170,596; Aug. 22.
Oxygen-generating composition. M. L. Heim and K. Fiedler. 2,170,052; Aug. 22.
Package dispensing. T. Armstrong. 2,170,230; Aug. 22.
Package of gummed bands or stickers. J. D. Lane. 2,170,147; Aug. 22.
Package, Paper. F. G. Steiner. 2,170,540; Aug. 22.
Packaging structure. R. M. Bergstein. 2,170,364; Aug. 22.
Pad and making same, Shoulder. W. H. Hawkins and M. Selditz. 2,170,199; Aug. 22.
Padding rack. E. B. Harry. 2,170,301; Aug. 22.
Paint, Waterproof. C. V. Smith. 2,170,163; Aug. 22.
Pan raising and lowering mechanism, Grain. T. N. Pierson. 2,170,573; Aug. 22.
Panel, Insulating wall. C. T. Hatch and I. R. Swanson. 2,170,637; Aug. 22.
Paper, Adhesive-coated. H. R. Dalton. 2,170,654; Aug. 22.
Paper receptacle. J. P. Markert. 2,170,420; Aug. 22.
Pen feeding machine. P. Meier. 2,170,567; Aug. 22.
Pen filling device, Fountain. O. R. Terry. 2,170,699; Aug. 22.
Pen, Fountain. R. W. Hanle. 2,170,242; Aug. 22.
Pencil, Mechanical. H. Maucher. 2,170,761; Aug. 22.
Pencils, Tip for draftsmen's mechanical. H. F. Smenner. 2,170,734; Aug. 22.
Pentaerythritol, Preparation of. J. A. Wyler. 2,170,624; Aug. 22.
Perforating machine. S. E. Rosenberg. 2,170,646; Aug. 22.
Peripheral machining apparatus. P. Klamp and A. L. Bergstrom. 2,170,501; Aug. 22.
Photographic lighting apparatus. W. C. Hoffman. 2,170,529; Aug. 22.
Photo-objective, Four-lens. R. Richter. 2,170,428; Aug. 22.
Pick or plectrum. H. W. Wolcott. 2,170,179; Aug. 22.
Picture illumination. L. A. Nisle. 2,170,377; Aug. 22.
Piezoelectric crystal device. W. G. Cady. 2,170,318; Aug. 22.
Pipe: *See*—
  Smoking pipe.
Pipe-coating machine. G. D. Williams. 2,170,314; Aug. 22.
Pipe joint. R. C. Boughton. 2,170,004; Aug. 22.
Pipe union, Valved. F. R. and F. M. Long. 2,170,478; Aug. 22.
Piston for internal combustion engines. E. E. Leissner. 2,170,266; Aug. 22.
Planter runners, Elevating and lowering. W. G. Stevens, Jr. 2,170,490; Aug. 22.
Plastic material, Apparatus for drawing. A. G. Rose. 2,170,369; Aug. 22.
Plug: *See*—
  Fuse plug. Shield telephone plug.
  Ingot mold plug. Spark plug.
Portable water color box. L. Cutrow. 2,170,709; Aug. 22.
Pot, Glue. F. E. Finlayson. 2,170,681; Aug. 22.
Powder divider, Prescription. L. F. Martin, Jr. 2,170,150; Aug. 22.
Power transmission with unidirectional clutch, Variable-speed. H. J. Murray. 2,170,460; Aug. 22.
Powdered material, Method and apparatus for handling. N. S. Borch. 2,170,258; Aug. 22.
Press: *See*—
  Baling press. Printing press.
Printing method and apparatus therefor. A. Solodar. 2,170,668; Aug. 22.
Printing press, Web-perfecting rotary. H. M. Barber. 2,170,526; Aug. 22.
Printing telegraph exchange system, Automatic. G. S. Vernam. 2,170,669; Aug. 22.
Projector stand. E. J. Wienke. 2,170,466; Aug. 22.
Protector: *See*—
  Tree and plant protector.
Puller: *See*—
  Combination puller.
Pulley, Sheet metal. H. W. Larson. 2,170,779; Aug. 22.

Pump: *See*—
  Fuel pump.
Pump and attachment therefor, Sand. G. W. Miller. 2,170,568; Aug. 22.
Pump and control valve, Combined alternating. D. R. Hillis. 2,170,327; Aug. 22.
Pump jack. R. E. Whittlesey. 2,170,313; Aug. 22.
Pumping apparatus. L. L. Clark. 2,170,549; Aug. 22.
Raceway member for roller bearings and mounting same, Outer. J. B. Baker. 2,170,492; Aug. 22.
Rack: *See*—
  Padding rack.
Radiator. E. C. Booth. 2,169,993; Aug. 22.
Radiator and radiator shutter assembly. W. C. Agerell and A. C. Mueller. 2,170,524; Aug. 22.
Radiator construction. F. C. Reynolds. 2,170,427; Aug. 22.
Radiator, Hot water heating. J. F. Haywood. 2,170,777; Aug. 22.
Radiator used with internal combustion engines. H. B. Morrow and G. W. Walker. 2,170,214; Aug. 22.
Radiators, Apparatus for deterging. G. J. Rodieck. 2,170,730; Aug. 22.
Radiators, Making. J. F. Fagan. 2,170,774; Aug. 22.
Radio speaker control structure and circuit for use with automatic tuning devices for radio receivers. W. L. Dunn. 2,170,261; Aug. 22.
Ratio transmission device, Variable. G. T. Pfleger. 2,170,212; Aug. 22.
Reamer, Expansible. J. Grant. 2,170,452; Aug. 22.
Receiver for frequency-modulated waves. K. Küpfmüller. 2,170,202; Aug. 22.
Receptacle: *See*—
  Paper receptacle. Reinforced receptacle.
  Refuse receptacle. Waste receptacle.
Receptacle. F. A. Ball. 2,170,525; Aug. 22.
Receptacle closure. A. L. Merolle. 2,170,386; Aug. 22.
Receptacle or box. D. Meyer. 2,170,060; Aug. 22.
Reclining chair. H. L. Schunpert. 2,170,509; Aug. 22.
Record, Phonograph. F. V. Paul. 2,170,090; Aug. 22.
Recorder apparatus. O. S. Peters. 2,170,505; Aug. 22.
Rectifier, Mercury-vapor. J. G. W. Mulder. 2,170,482; Aug. 22.
Rectifier tube. E. H. Reerink and M. J. Druyvesteyn. 2,170,034; Aug. 22.
Reel: *See*—
  Clothesline reel.
Refractory. G. E. Seil. 2,170,254; Aug. 22.
Refrigeration. G. Grubb. 2,170,656; Aug. 22.
Refrigerator. C. I. Justheim. 2,170,332; Aug. 22.
Refrigerator cabinet. N. R. Hull. 2,170,717; Aug. 22.
Refrigerator car door. W. A. Heitner. 2,170,053; Aug. 22.
Refuse receptacle. L. B. Berg. 2,170,677; Aug. 22.
Register, Autographic. C. L. Johnston. 2,170,143; Aug. 22.
Register, Cash. F. Emberson. 2,170,517; Aug. 22.
Register, Portable autographic. W. A. Pringle and C. J. Manuel. 2,170,093; Aug. 22.
Regulator: *See*—
  Automatic draft regulator.
Reinforce element and support, Combined. L. F. Emigholz. 2,170,635; Aug. 22.
Reinforced receptacle. G. K. S. Ferguson. 2,170,714; Aug. 22.
Relay. L. E. Gardiner. 2,170,135; Aug. 22.
Resin-fiber compositions, Making. N. D. Hanson. 2,170,755; Aug. 22.
Rivet setting device. A. S. Gorshkoff. 2,170,323; Aug. 22.
Rivets, Process and apparatus for making. E. R. Frost. 2,170,556; Aug. 22.
Rock bit. A. C. Catland. 2,170,320; Aug. 22.
Rocker arm. J. F. Cailloux and P. M. Rea. 2,170,184; Aug. 22.
Rod and bracket, Curtain. B. E. Moriarty. 2,170,570; Aug. 22.
Rod threading device, Curtain. H. Auslander. 2,170,674; Aug. 22.
Rolling mill. T. Sendzimir. 2,170,732; Aug. 22.
Roofing granule and making. C. L. Colbert. 2,170,445; Aug. 22.
Rotary Diesel engine. B. G. Jutting. 2,170,414; Aug. 22.
Rubber strips, Making. R. W. Albright. 2,170,441; Aug. 22.
Rubber, Treatment of. H. L. Fisher. 2,170,191; Aug. 22.
Rubber, Vulcanization of. M. W. Harman. 2,170,453; Aug. 22.
Rubbing machine. E. R. Mason. 2,170,643; Aug. 22.
Rule, Slide. L. M. Kells, W. F. Kern, and J. R. Bland. 2,170,144; Aug. 22.
Sacker, Seed. C. H. Dalzell. 2,170,710; Aug. 22.
Safety clearance lamp. S. T. Voll. 2,170,600; Aug. 22.
Safety device for cash registers or the like. E. Zoub. 2,170,362; Aug. 22.
Salad dressing. H. M. Levin. 2,170,417; Aug. 22.
Salad dressing. A. Musher. 2,170,518; Aug. 22.
Salts of 2-mercapto-benzothiazole. I. Williams. 2,170,670; Aug. 22.
Sander, Road. L. J. Whelan. 2,170,360; Aug. 22.
Sash operating mechanism. E. L. Ackerman. 2,170,440; Aug. 22.
Scaffolding suspension. E. L. Loomis. 2,170,689; Aug. 22.
Scale, Spring testing. W. Gumprich. 2,170,197; Aug. 22.
Scaling device. R. C. Luckins. 2,170,721; Aug. 22.
Screen focus compensator. J. B. Cernohouz. 2,170,630; Aug. 22.
Screen for sewage, Cutting. J. A. Montgomery. 2,170,569; Aug. 22.
Seal, Bearing. Z. E. Flick. 2,170,134; Aug. 22.
Seal for bags. V. A. Nelson. 2,170,089; Aug. 22.
Seal, Hydraulic. C. Sauzedde. 2,170,574; Aug. 22.
Seam for sheet metal cans and making same, Soldered metal. A. G. Hopkins. 2,170,639; Aug. 22.
Seamer, Double. A. Johnson and G. W. Johnson. 2,170,055; Aug. 22.
Selector switch. W. C. Edwards and S. R. Conwell. 2,170,711; Aug. 22.
Sensitometer. J. C. Dionne and H. W. Keevil. 2,170,515; Aug. 22.
Sheet feeding device. G. Spiess. 2,170,489; Aug. 22.
Sheet feeding mechanism. A. Novick. 2,170,423; Aug. 22.
Sheets to printing and other sheet working machines, Method and device of feeding. G. Spiess. 2,170,488; Aug. 22.
Shelf. A. E. Detwiler. 2,170,013; Aug. 22.
Shelf, Flush tank utility. A. H. Goepel. 2,170,776; Aug. 22.
Shell, Pressure extraction vessel. J. D. Christain. 2,170,547; Aug. 22.
Shield for filling openings of automobile gasoline tanks, Rain. L. Karell. 2,170,415; Aug. 22.
Shielded telephone plug. C. W. Doremus. 2,170,131; Aug. 22.
Shirt blocking device. C. M. Cleophas. 2,170,126; Aug. 22.
Shock absorbing device. R. L. Kerr. 2,170,057; Aug. 22.
Shoe attachment, Antiskid. C. F. Mutter. 2,170,691; Aug. 22.
Shoe for rotary ironers. G. W. Dunham. 2,170,680; Aug. 22.
Shoes, Stiffening. K. Mayer. 2,170,376; Aug. 22.
Shuttleless loom. W. T. Sullivan. 2,170,770; Aug. 22.
Shuttle box front. H. J. Lanier. 2,170,384; Aug. 22.
Shuttle tension. W. A. Tebo. 2,170,541; Aug. 22.
Signal: *See*—
  Grade crossing signal.
Signal control, stop. J. M. and T. J. Murray. 2,170,088; Aug. 22.
Signal systems, Fault-indicating means for. J. H. Wheelock. 2,170,104; Aug. 22.
Signal transmission system. B. G. Bjornson and N. W. Bryant. 2,170,397; Aug. 22.
Siphon for aerated liquids. W. Brewer. 2,170,705; Aug. 22.
Siphon flushing apparatus, Antiback. F. B. Charrion. 2,170,321; Aug. 22.
Skate, roller. S. Segal. 2,170,162; Aug. 22.
Skate, Track. E. M. Wilcox. 2,170,523; Aug. 22.
Slicing and wrapping machine, Combination bread. H. B. Tuthill and H. F. Caldwell. 2,170,312; Aug. 22.
Slide gauge. R. Wolter. 2,170,582; Aug. 22.
Slug casting machine. A. M. Bramblett. 2,170,005; Aug. 22.
Smoking pipe. M. Schnaier. 2,170,430; Aug. 22.
Snap fastener. H. V. Rau. 2,170,216; Aug. 22.
Snap switch. M. W. Eaton. 2,170,748; Aug. 22.
Snap switch. A. L. Riche. 2,170,767; Aug. 22.
Spark arrester. R. B. Bourne. 2,170,704; Aug. 22.
Spark plug. A. E. Hornback. 2,170,243; Aug. 22.
Speed reduction unit. J. D. Christian. 2,170,548; Aug. 22.
Speed transmission, Variable. O. H. Banker. 2,170,649; Aug. 22.
Spindle blades, Production of. H. Mitchell. 2,170,727; Aug. 22.
Spraying apparatus, Portable foot. F. B. Ellers. 2,170,553; Aug. 22.
Spring: *See*—
  Cushion and mattress Inner piston expanding spring. spring.
Spring suspension for fork-mounted wheels. C. Macbeth. 2,170,565; Aug. 22.
Spring wire clip. C. H. Canfield. 2,170,586; Aug. 22.
Stand: *See*—
  Display stand. Projector stand.
Starch composition. J. F. Walsh and W. L. Morgan. 2,170,272; Aug. 22.
Starch composition and process. J. F. Walsh and W. L. Morgan. 2,170,271; Aug. 22.
Steel, Alloy. G. R. Rich. 2,170,267; Aug. 22.
Steel for the manufacture of motor valves, Alloy. G. R. Rich. 2,170,268; Aug. 22.
Sterilizing apparatus. G. Grindrod. 2,170,195; Aug. 22.
Stocking and making the same. H. A. Houseman. 2,170,077; Aug. 22.
Stocking and making the same. H. E. Houseman. 2,170,078; Aug. 22.
Stocking and making the same. W. L. Houseman. 2,170,076; Aug. 22.
Stoker. J. R. Robinson. 2,170,279; Aug. 22.
Stoker and furnace therefor. M. C. Richardson. 2,170,277; Aug. 22.

Stop, Friction car. E. W. Breyley. 2,170,008; Aug. 22.
Stop mechanism for machine tools, Automatic position. W. Trible and G. F. Heckman. 2,170,510; Aug. 22.
Stop, Stock. A. E. Drissner. 2,170,633; Aug. 22.
Store-goods lifter. G. A. Torvik. 2,170,357; Aug. 22.
Strainer cleaning device. C. C. Farmer. 2,170,082; Aug. 22.
Strainer cleaning device. W. B. Kirk. 2,170,081; Aug. 22.
Strut, Brake beam. C. R. Busch. 2,170,114; Aug. 22.
Suction printing frame. M. Sussin. 2,170,622; Aug. 22.
Sulphates, Preparing alkyl. E. V. Fasce and J. J. Owen. 2,170,401; Aug. 22.
Sulphide rectifier. L. J. Ellison. 2,170,634; Aug. 22.
Sulphonamides of 2-amino pyridines. C. Naegeli. 2,170,209; Aug. 22.
Support: *See*—
Arch support. Fuse support.
Support for candy molds. G. Gruber. 2,170,051; Aug. 22.
Support for flexible hose. S. Guarnaschelli. 2,170,557; Aug. 22.
Suspender construction. J. Schwarz. 2,170,340; Aug. 22.
Switch: *See*—
Combination lock ignition switch. Selector switch.
Control switch. Snap switch.
Switch and operator therefor. C. R. Grantham. 2,170,715; Aug. 22.
Switch and system therefor, Electromagnetic. C. L. Perry. 2,170,694; Aug. 22.
Switch construction, Push-button. R. S. Edwards. 2,169,996; Aug. 22.
Switch devices, Electronic. G. E. Pray. 2,170,157; Aug 22.
Switch unit. B. E. Shaw. 2,170,341; Aug. 22.
Syringe, Cabinet. R. C. Snow. 2,170,281; Aug. 22.
Tack button. F. H. Peterson and R. R. Clarke. 2,170,091–2; Aug. 22.
Tack button. L. R. Carley. 2,170,234–5; Aug. 22.
Tap attaching device for containers. G. O. Conner. 2,170,010; Aug. 22.
Tap attaching device for containers, Making a. G. O. Conner. 2,170,011; Aug. 22.
Tape, Stringer. D. Marinsky. 2,170,419; Aug. 22.
Telegraph apparatus, Printing. W. J. Zenner. 2,170,316; Aug. 22.
Telephone and telegraph exchange system. F. J. Singer. 2,170,038; Aug. 22.
Telephone system. M. C. Goddard. 2,170,403; Aug. 22.
Telephone system. M. Rosin. 2,170,429; Aug. 22.
Telephone system. E. S. Ruth. 2,170,391; Aug. 22.
Television tube. K. Schlesinger. 2,170,251; Aug. 22.
Temperature compensation device. H. Romander. 2,170,664; Aug. 22.
Temperature control system. F. A. Faust. 2,170,402; Aug. 22.
Temperature-controlling means for rubber mill pans or the like. F. H. Banbury. 2,170,396; Aug. 22.
Textile printing machine. H. Hintze and J. J. Dolphi. 2,170,286; Aug. 22.
Toaster, Automatic. B. R. Deleray. 2,170,070; Aug. 22.
Toasting machine. B. Weil. 2,170,170; Aug. 22.
Tobacco, Bleaching. H. Baier. 2,170,107; Aug. 22.
Tool: *See*—
Abrading tool. Vegetable slicing and stringing tool.
Bearingizing tool. Well reaming tool.
Convertible tool.
Machine tool.
Tool alloy, Hard metal. P. Schwarzkopf. 2,170,432; Aug. 22.
Tool for sharpening lawn mowers. E. A. Reid. 2,170,463; Aug. 22.
Tool-holding device. J. T. Hiscock. 2,170,590; Aug. 22.
Toothpowder dispensing device. A. A. Anthony. 2,170,182; Aug. 22.
Towel cabinet. W. L. Sylvester. 2,170,223; Aug. 22.
Toy balloon. G. E. Schoberg. 2,170,539; Aug. 22.
Toy, Child's. C. E. Garton. 2,170,616; Aug. 22.
Toy construction elements. W. R. Benjamin. 2,170,771; Aug. 22.
Toy machine gun. F. Stanley. 2,170,221; Aug. 22.
Traffic control system. A. P. B. Renshaw. 2,170,160; Aug. 22.
Traffic control system for railroads, Centralized. D. F. De Long. 2,170,129; Aug. 22.
Traffic controlling system for railroads, Centralized. W. D. Hailes, and D. F. De Long. 2,170,141; Aug. 22.
Train control mechanism. C. B. George. 2,170,137; Aug. 22.
Transformer, Aperiodic. A. Alford. 2,170,626; Aug. 22.
Transformer, Welding machine. E. J. von Henke. 2,170,700; Aug. 22.
Transmission and control mechanism for milling machines. M. E. Martellotti. 2,170,291; Aug. 22.
Transmission apparatus, Hydraulic. I. E. McElroy and R. H. Shadrick. 2,170,786; Aug. 22.
Transmission device with speed-torque actuated give-away control, Variable speed power. H. J. Murray. 2,170,208; Aug. 22.
Transmissions, Setting and indicating device for change speed. L. A. Carter. 2,170,293; Aug. 22.
Transmitting and receiving device for ultra-short waves. K. Kohl. 2,170,028; Aug. 28.
Trap: *See*—
Animal trap.
Trap for gasoline pipe lines, etc., and for all storage tanks and tank cars, Water. R. A. Lambert. 2,170,247; Aug. 22.
Trap for plumbing fixtures, Antisyphoning. I. B. Ritter. 2,170,390; Aug. 22.
Tray organization for refrigerators, Ice. J. H. Miner. 2,170,592; Aug. 22.
Tree and plant protector. A. J. Erickson. 2,170,589; Aug. 22.
Trim-panel manufacture and apparatus. A. S. Mitchell and H. M. Ratley. 2,170,662; Aug. 22.
Trolley or collector. W. H. Frank and L. C. Fisher. 2,170,297; Aug. 22.
Trolley or collector. W. H. Frank and W. A. Harper. 2,170,296; Aug. 22.
Truck. G. T. Ronk. 2,170,095; Aug. 22.
Truck, Axle structure-steel farm. D. W. Voorhees. 2,170,522; Aug. 22.
Truck body and door construction. R. H. Greegor. 2,170,021; Aug. 22.
Truck, Vehicle wheel. O. L. Cronk. 2,170,012; Aug. 22.
Trucks and working parts thereof, Construction of car. C. R. Busch. 2,170,112; Aug. 22.
Truing attachment. C. Herfurth. 2,170,304; Aug. 22.
Tube: *See*—
Electric discharge tube. Rectifier tube.
Electron discharge tube. Television tube.
Electron tube.
Tube and bulb and making same, Combination capillary F. W. Sullivan. 2,170,612; Aug. 22.
Tube and trap, Combined Bourdon. H. L. Joyce. 2,170,561; Aug. 22.
Tube for ultra high frequency systems, Electron discharge. W. Buschbeck. 2,170,653; Aug. 22.
Tubes, Apparatus for reducing. G. Asbeck. 2,170,513; Aug. 22.
Turnstile. H. A. Gersbach and D. R. Bacon. 2,170,192; Aug. 22.
Twitch. H. F. Banholzer. 2,170,442; Aug. 22.
2,4-Dioxo-3,3-dialkyl-tetrahydro-pyridine-6-carboxylic acids and their manufacture. O. Schnider. 2,170,781; Aug. 22.
Unloader, Multistep intake. C. Wainwright. 2,170,358; Aug. 22.
Universal joint. R. L. Wonderly. 2,170,315; Aug. 22.
Utensil, Cooking and baking. K. Stuart. 2,170,040; Aug. 22.
Valve: *See*—
Dispensing valve. Pump and control valve.
Valve and enclosure plate for high pressure reaction vessels, Combination. J. L. Stecher and H. H. Parker. 2,170,353; Aug. 22.
Valve for containers, Discharge. A. L. Anderson. 2,170,395; Aug. 22.
Valve operating mechanism. J. F. Duncan. 2,170,516; Aug. 22.
Valve protective system, Electric. M. Hürlimann. 2,170,499; Aug. 22.
Vapor generator. E. G. Bailey. 2,170,342–3; Aug. 22.
Vapor generator. E. G. Bailey, P. R. Cassidy, R. M. Hardgrove, and G. D. Ebbets. 2,170,345; Aug. 22.
Vapor generator, Forced flow. E. G. Bailey. 2,170,349; Aug. 22.
Vapor phase filtering process for the treatment of hydrocarbon vapors. M. P. Youker. 2,170,180; Aug. 22.
Vegetable slicing and stringing tool. K. W. Mesterton. 2,170,536; Aug. 22.
Vehicle construction. L. S. West, G. A. Steuber, and J. H. Powers. 2,170,581; Aug. 22.
Ventilating lid cover. L. Thompson. 2,170,738; Aug. 22.
Vibratory apparatus. R. L. Williams. 2,170,178; Aug. 22.
Waffle iron. J. T. Misiak and W. D. Mitchell. 2,170,153; Aug. 22.
Wall construction, Burglar-alarm. R. S. Kahn. 2,170,026; Aug. 22.
Wall fixture. A. W. Spencer. 2,170,465; Aug. 22.
Wall structure. S. F. Burnet. 2,170,233; Aug. 22.
Warp loom. R. Richter. 2,170,697; Aug. 22.
Washing machine. W. W. Russell. 2,170,096; Aug. 22.
Waste receptacle. G. B. Creesy and F. A. Prahl. 2,170,604; Aug. 22.
Water-control system for machines for washing drinking vessels. W. F. Ohme and R. C. Stephan. 2,170,307; Aug. 22.
Water-lubricated bearing. J. A. Smitmans. 2,170,667; Aug. 22.
Weighing device, Automatic. G. W. Misner. 2,170,249; Aug. 22.
Welding. T. S. Gaylord. 2,170,019; Aug. 22.
Well reaming tool. J. Grant. 2,170,451; Aug. 22.
Wetting and spreading agent for oils. F. C. Nelson. 2,170,644; Aug. 22.
Wheel: *See*—
Dye wheel.
Wheel. C. W. Sinclair. 2,170,666; Aug. 22.
Wheel and axle assembly. J. Hektner. 2,170,498; Aug. 22.

Wheel body elements, Manufacturing. F. H. Le Jeune. 2,170,661; Aug. 2.
Wheel construction. C. S. Ash. 2,170,647; Aug. 22.
Wheel for vehicles, Artillery type. J. Greaker. 2,170,404; Aug. 22.
Wheel mounting for vehicles, Shock reducing and cushioning. G. L. Larison. 2,170,454; Aug. 22.
Wheel or pully lock. J. Schaefer. 2,170,352; Aug. 22.
Wheel suspension. T. A. Peterman. 2,170,064; Aug. 22.
Wheels, Manufacture of disk. W. W. Hamill. 2,170,617; Aug. 22.
Whip-stock bottom. H. J. Eastman. 2,170,284; Aug. 22.
Winch. P. J. Messer. 2,170,504; Aug. 22.
Winding, Method and apparatus for. E. L. Griggs, Jr. 2,170,194; Aug. 22.
Window. H. Blanco. 2,170,603; Aug. 22.
Windshield cleaner. E. C. Horton. 2,170,264; Aug. 22.
Wire-feeding device. J. E. Anderson. 2,170,673; Aug. 22.
Wire support for paper machines, Forming. E. E. Berry. 2,170,109; Aug. 22.
Wires, Apparatus for flattening lead. J. F. Donovan and J. Flaws, Jr. 2,170,784; Aug. 22.
Yarn swift. M. B. Penman. 2,170,764; Aug. 22.
Zeolites, Making carbonaceous. R. Riley. 2,170,065; Aug. 22.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 22, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number—class, second number—subclass, third number—patent number

1— 45: 2,170,468
2— 49: 2,170,703
84: 2,170,339
153: 2,170,707
224: 2,170,083
268: 2,170,199
3— 2: 2,170,580
4— 26: 2,170,321
67: 2,170,516
68: 2,170,776
5— 37: 2,170,382
129: 2,170,400
267: 2,170,618
6— 1: 2,170,210
8— 112: 2,169,997
120: 2,170,024
130: 2,170,190
151: 2,170,579
10— 27: 2,170,556
34: 2,170,402
78: 2,170,473
86: 2,170,290
11— 1: 2,170,049
2,170,301
12— 14: 2,170,035
21: 2,170,022
128.6: 2,170,754
145: 2,170,376
2,170,559
15— 20: 2,170,081
61: 2,170,044
104.10: 2,170,660
128: 2,170,740
142: 2,170,528
255: 2,170,264
16— 31: 2,170,257
53: 2,170,156
179: 2,170,302
192: 2,170,614
17— 4: 2,170,425
18— 2: 2,170,396
54: 2,170,441
55: 2,170,253
20— 16: 2,170,295
23: 2,170,053
22— 9: 2,170,226
148: 2,170,555
165: 2,170,486
174: 2,170,103
23— 6: 2,170,052
86: 2,170,108
212: 2,170,265
232: 2,170,056
2,170,596
244: 2,170,644
250: 2,170,625
259: 2,170,411
24— 71.3: 2,170,292
81: 2,170,586
137: 2,170,204
141: 2,170,708
205: 2,170,419
2,170,421
217: 2,170,216
261: 2,170,483
25— 128: 2,170,188
131.5: 2,170,564
156: 2,170,445
26— 65: 2,170,578
27— 23: 2,170,724
28— 1: 2,170,439
2,170,752
29— 33: 2,170,633
34: 2,170,784
85: 2,170,461
88.2: 2,170,472
90: 2,170,533
2,170,631
96: 2,170,590
148.2: 2,170,612
148.4: 2,170,492
29—149.5: 2,170,039
156: 2,170,011
159.01: 2,170,617
2,170,661
164: 2,170,117
170: 2,170,727
30— 43: 2,170,215
164: 2,170,537
298: 2,170,514
31— 20: 2,170,685
33— 143: 2,170,582
147: 2,170,747
172: 2,170,493
174: 2,170,146
204: 2,170,087
220: 2,170,269
34— 19: 2,170,763
36— 7.6: 2,170,691
62: 2,170,138
71: 2,170,737
72: 2,170,652
38— 66: 2,170,680
110: 2,170,061
2,170,075
39— 3: 2,170,192
40— 20: 2,170,091
2,170,092
2,170,234
2,170,235
82: 2,170,133
95: 2,170,398
110: 2,170,023
112: 2,170,408
126: 2,170,641
130: 2,170,368
41— 4: 2,170,709
43— 17: 2,170,000
2,170,594
28: 2,170,067
2,170,788
74: 2,170,470
108: 2,170,589
44— 15: 2,170,326
45— 7: 2,170,093
91: 2,170,098
46— 29: 2,170,771
87: 2,170,539
49— 45: 2,170,749
81: 2,170,602
51— 49: 2,170,494
95: 2,170,606
2,170,613
103: 2,170,672
135: 2,170,643
177: Re. 21,180
184.3: 2,170,585
237: 2,170,329
273: 2,170,324
278: 2,170,328
52— 13: 2,170,629
53— 5: 2,170,170
6: 2,170,040
7: 2,170,775
56— 20: 2,170,572
208: 2,170,573
58— 22: 2,170,079
126: 2,170,743
59— 35: 2,170,073
60— 52: 2,170,029
2,170,464
2,170,702
54.6: 2,170,574
106: 2,170,350
61— 14: 2,170,671
23: 2,170,200
63: 2,170,330
62— 4: 2,170,332
2,170,388
89: Re. 21,178
2,170,717
108.5: 2,170,592
62— 119: 2,170,656
123: 2,170,071
64— 11: 2,170,627
17: 2,170,315
25: 2,170,413
65— 15: 2,170,311
61: 2,170,282
66— 82: 2,170,278
86: 2,170,697
96: 2,170,148
109: 2,170,621
173: 2,170,615
178: 2,170,149
185: 2,170,076
2,170,077
2,170,078
197: 2,170,741
67— 7: 2,170,485
68— 144: 2,170,712
184: 2,170,096
70— 179: 2,170,722
363: 2,170,205
72— 36: 2,170,165
37: 2,170,254
101: 2,170,233
122: 2,170,635
73— 51: 2,170,435
2,170,640
62: 2,170,150
109: 2,170,561
74— 41: 2,170,313
191: 2,170,502
230.17: 2,170,212
230.8: 2,170,779
259: 2,170,208
277: 2,170,444
298: 2,170,733
363: 2,170,736
505: 2,170,238
531: 2,170,511
559: 2,170,184
568: 2,170,608
606: 2,170,548
75— 28: 2,170,158
121: 2,170,394
128: 2,170,267
2,170,268
135: 2,170,259
136: 2,170,432
137: 2,170,433
153: 2,170,431
167: 2,170,650
76— 82.1: 2,170,463
101: 2,170,164
107: 2,170,166
77— 3: 2,170,054
55: 2,170,211
78— 20: 2,170,519
80— 11: 2,170,513
38: 2,170,732
81— 6: 2,170,535
82— 29: 2,170,293
36: 2,170,246
83— 9: 2,170,768
11: 2,170,407
12: 2,170,303
84— 1.15: 2,170,294
322: 2,170,179
88— 1: 2,170,438
57: 2,170,428
90— 12: 2,170,389
14: 2,170,501
21: 2,170,159
21.5: 2,170,291
2,170,503
91— 12: 2,170,610
18: 2,170,142
39: 2,170,218
44: 2,170,314
51: 2,170,560
55: 2,170,392
91— 68: 2,170,043
2,170,654
70: 2,170,140
92— 21: 2,170,755
44: 2,170,109
93— 2: 2,170,312
41: 2,170,759
95— 37: 2,170,583
76: 2,170,622
81: 2,170,630
97— 236: 2,170,490
99— 4: 2,170,562
6: 2,170,713
83: 2,170,155
95: 2,170,274
143: 2,170,611
144: 2,170,417
2,170,518
215: 2,170,196
234: 2,170,178
251: 2,170,195
100— 7: 2,170,084
50: 2,170,547
101— 178: 2,170,286
179: 2,170,526
275: 2,170,027
352: 2,170,025
103— 42: 2,170,530
120: 2,170,786
227: 2,170,080
235: 2,170,549
260: 2,170,587
104— 259: 2,170,008
260: 2,170,523
105— 4: 2,170,095
35: 2,170,742
48: 2,170,766
159: 2,170,581
206: 2,170,118
106— 12: 2,170,434
19: 2,170,102
36.2: 2,170,387
107— 8: 2,170,051
9: 2,170,424
10: 2,170,309
54: 2,170,520
108— 7: 2,170,534
109— 42: 2,170,026
46: 2,170,362
110— 45: 2,170,277
2,170,279
111— 96: 2,170,598
112— 2: 2,170,094
43: 2,170,554
262: 2,170,693
113— 24: 2,170,055
112: 2,170,638
2,170,639
118: 2,170,774
114— 240: 2,170,481
116— 50: 2,170,370
119— 44: 2,170,789
96: 2,170,442
120— 9: 2,170,734
14: 2,170,761
32: 2,170,161
33: 2,170,642
42: 2,170,242
121— 119: 2,170,058
122— 1: 2,170,351
235: 2,170,343
2,160,345
250: 2,170,349
411: 2,170,790
448: 2,170,342
2,170,344
2,170,346
2,170,347
2,170,348
123— 32: 2,170,477
43: 2,170,213
51: 2,170,020
54: Re.21,177
55: 2,170,151
56: 2,170,099
78: 2,170,266
119: 2,170,651
169: 2,170,243
173: 2,170,443
191: 2,170,015
124— 29: 2,170,221
125— 11: 2,170,304
2,170,605
26: 2,170,783
33: 2,170,757
126— 58: 2,170,735
334.1: 2,170,299
114: 2,170,085
132: 2,170,729
288: 2,170,726
350: 2,170,139
127— 33: 2,170,271
2,170,272
128— 95: 2,170,558
173: 2,170,553
223: 2,170,599
227: 2,170,281
227: 2,170,288
129— 1: 2,170,260
131— 6: 2,170,107
182: 2,170,248
132— 13: 2,170,550
28: 2,170,772
31: 2,170,577
33: 2,170,220
2,170,785
48: 2,170,636
2,170,778
133— 3: 2,170,288
134— 1: 2,170,152
23.9: 2,170,273
36: 2,170,198
46: 2,170,163
79: 2,170,632
135— 5: 2,170,415
48: 2,170,236
136— 181: 2,170,750
137— 21: 2,170,353
69: 2,170,478
138— 45: 2,170,500
61: 2,170,557
139— 92: 2,170,542
108: 2,170,762
127: 2,170,770
183: 2,170,384
217: 2,170,541
421: 2,170,563
140— 125: 2,170,673
141— 1: 2,170,082
2,170,730
3: 2,170,307
144— 134: 2,170,687
146— 78: 2,170,512
171: 2,170,536
148— 12: 2,170,361
153— 32: 2,170,308
154— 1: 2,170,662
28: 2,170,207
44: 2,170,655
46: 2,170,416
155— 163: 2,170,509
182: 2,170,224
158— 1.5: 2,170,145
28: 2,170,426
2,170,497
46.5: 2,170,136
91: 2,170,480
164— 13: 2,170,646
61: 2,170,255
68: 2,170,609
164— 88: 2,170,289
166— 19: 2,170,354
2,170,355
2,170,369
2,170,568
167— 90: 2,170,185
171— 95: 2,170,597
97: 2,170,450
229: 2,170,193
264: 2,170,753
313: 2,170,546
327: 2,170,318
172— 239: 2,170,460
2,170,623
173— 330: 2,170,287
2,170,359
334.1: 2,170,299
2,170,300
339: 2,170,217
343: 2,170,285
358: 2,170,399
361: 2,170,131
175— 21: 2,170,047
41: 2,170,782
183: 2,170,371
2,170,515
294: 2,170,694
356: 2,170,700
363: 2,170,499
366: 2,170,634
176— 16: 2,170,683
34: 2,170,675
122: 2,170,066
124: 2,170,446
2,170,447
2,170,448
2,170,449
2,170,456
2,170,457
177— 7: Re.21,181
311: 2,170,104
314: 2,170,521
329: 2,170,338
337: 2,170,160
380: 2,170,100
178— 2: 2,170,669
4: 2,170,132
6: 2,170,167
33: 2,170,316
44: 2,170,206
2,170,397
2,170,626
69: 2,170,203
179— 2: 2,170,374
4: 2,170,038
18: 2,170,429
27: 2,170,403
39: 2,170,391
100.11: 2,170,383
100.2: 2,170,751
119: 2,170,571
171: 2,170,046
2,170,070
2,170,645
180— 68: 2,170,524
182— 7: 2,170,390
183— 49: 2,170,074
80: 2,170,704
181— 7: 2,170,327
29: 2,170,228
103: 2,170,725
188— 90: 2,170,128
152: 2,170,086
2,170,575
2,170,593
165: 2,170,244
172: 2,170,510
210: 2,170,532
212: 2,170,112
2,170,119
2,170,123

188—	222:	2,170,113	200—	130:	2,170,168	227—	25:	2,170,721	248—	11:	2,170,466	260—	203:	2,170,372	280—	124:	2,170,064
		2,170,114		133:	2,170,698	229—	3.5:	2,170,060		101:	2,170,710		208:	2,170,262		286:	2,170,565
		2,170,120		138:	2,170,748		5.6:	2,170,436		122:	2,170,201		225:	2,170,016	281—	3:	2,170,106
		2,170,121		159:	2,169,996		6:	2,170,283		194:	2,170,006			2,170,017		44:	2,169,999
		2,170,122	201—	64:	2,170,692			2,170,420			2,170,062		231:	2,170,009	282—	12:	2,169,994
	223:	2,170,116	204—	1:	2,170,375			2,170,714		223:	2,170,465		240:	2,170,474		16:	2,170,143
	236:	2,170,115		31:	2,170,665		14:	2,170,378		291:	2,170,063		248:	2,170,491		22:	2,170,241
189—	34:	2,170,637	206—	41:	2,170,322		34:	2,170,723		361:	2,170,325		293:	2,170,111	285—	40:	2,170,010
	36:	2,170,739		47:	2,170,570		51:	2,170,230	249—	42:	2,170,249		295:	2,170,781		90:	2,170,181
	37:	2,170,458		56:	2,170,147		55:	2,170,364	250—	11:	2,170,028		296:	2,170,209		164:	2,170,393
	72:	2,170,603		57:	2,170,540	230—	25:	2,170,358			2,170,659		302:	2,170,059		197:	2,170,004
	79:	2,170,110	209—	423:	2,170,069	232—	1.4:	2,170,245		16:	2,170,048		344:	2,170,127	286—	30:	2,170,134
190—	43:	2,170,379	210—	43:	2,170,247		4:	2,170,097		20:	2,170,202		355:	2,170,381	287—	53:	2,170,352
191—	23:	2,170,298		176:	2,170,569	234—	77:	2,170,505			2,170,261		374:	2,170,385		58:	2,170,679
	45:	2,170,296		205:	2,170,601	235—	2:	2,170,183			2,170,475		397:	2,170,124		89:	2,170,041
		2,170,297	211—	72:	2,170,356		5:	2,170,517		27:	2,170,251		459:	2,170,401			2,170,042
192—	3:	2,170,256	215—	25:	2,170,395		58:	2,170,543			2,170,252		475:	2,170,030		93:	2,170,455
	3.2:	2,170,649		43:	2,170,045		61:	2,170,544		27.5:	2,170,034		481:	2,169,998	288—	26:	2,170,363
	87:	2,170,538			2,170,386		70:	2,170,144			2,170,219		513:	2,170,380	292—	308:	2,170,089
	99:	2,170,171	216—	55:	2,170,068		79:	2,170,406			2,170,410		514:	2,170,506	294—	22:	2,170,357
		2,170,172	218—	19:	2,170,323	236—	1:	2,170,664			2,170,482		546:	2,170,002		63:	2,170,706
193—	43:	2,170,567	219—	8:	2,170,688		11:	2,170,232			2,170,648		583:	2,170,746	296—	140:	2,170,021
194—	83:	2,170,270		10:	2,170,019		12:	2,170,402			2,170,653		635:	2,170,624	301—	6:	2,170,666
196—	10:	2,170,275,		19:	2,170,070		68:	2,170,310			2,170,657		785:	2,170,670		12:	2,170,404
		2,170,306			2,170,153		74:	2,170,072			2,170,695		792:	2,170,037		37:	Re.21,179
		2,170,367		25:	2,170,591		86:	2,170,418		33:	2,170,684			2,170,453		39:	2,170,647
	18:	2,170,508		38:	2,170,174		96:	2,170,728		36:	2,170,487		796:	2,170,191		132:	2,170,522
	36:	2,170,336			2,170,175	237—	7:	2,170,777		41.5:	2,170,157	261—	84:	2,170,678			
	40:	2,170,620			2,170,176		8:	2,170,507		162:	2,170,663		92:	2,170,576	303—	13:	2,170,229
	48:	2,170,333			2,170,351		12.3:	2,170,032	251—	91:	2,170,619		93:	2,170,496		20:	2,170,240
	52:	2,170,437		44:	2,170,681		60:	2,170,225	252—	1:	2,169,995		121:	2,170,705		21:	2,170,237
	58:	2,170,169	220—	9:	2,170,409	238—	151:	2,170,018		2:	2,170,065	262—	28:	2,170,331		57:	2,170,239
	96:	2,170,180		17:	2,170,604	240—	1.3:	2,170,529	254—	3:	2,170,607	263—	53:	2,170,745		77:	2,170,137
	147:	2,170,628		44:	2,170,738		4:	2,170,377		7:	2,170,012	265—	16:	2,170,197		83:	2,170,250
	151:	2,170,495		71:	2,170,525		7.35:	2,170,189		97:	2,170,595	266—	4:	2,170,130	304—	17:	2,170,689
197—	63:	2,170,696	221—	14:	2,170,007		8.1:	2,170,600		104:	2,170,690		23:	2,170,305	306—	6:	2,170,125
198—	140:	2,170,231		60:	2,170,588		41.3:	2,170,682		187:	2,170,504	267—	1:	2,170,744	308—	4:	2,170,527
199—	36:	2,170,001			2,170,758		45:	2,170,552	255—	1:	2,170,057		52:	2,170,177			2,170,718
	56:	2,170,005		62:	2,170,182	241—	12:	2,170,340			2,170,284	268—	65:	2,170,014		76:	2,170,667
	62:	2,170,263			2,170,335	242—	84.1:	2,170,186			2,170,716		126:	2,170,440		91:	2,170,471
	66:	2,170,668		67:	2,170,720		84.7:	2,170,476		19:	2,170,365	271—	1:	2,170,423		187:	2,170,036
200—	11:	2,170,711		74:	2,170,531		100:	2,170,459		71:	2,170,320		46:	2,170,489		208:	2,170,498
	33:	2,170,715		124:	2,170,258		111:	2,170,764		76:	2,170,451		58:	2,170,488		237:	2,170,545
	44:	2,170,154		147:	2,170,173		120:	2,170,773			2,170,452		62:	2,170,422			
	45:	2,170,780	223—	20:	2,170,756		123:	2,170,334	257—	3:	2,170,101	273—	121:	2,170,566	309—	43:	2,170,276
	52:	2,170,088		69:	2,170,126		128:	2,170,194		95:	2,170,405		129:	2,170,373	311—	21:	2,170,013
		2,170,584		88:	2,170,319	244—	42:	2,170,787		125:	2,170,214		136:	2,170,033	312—	38:	2,170,223
	67:	2,170,767		94:	2,170,479		55:	2,170,003		136:	2,170,427	274—	44:	2,170,090		43:	2,170,105
	83:	2,170,341		95:	2,170,686		78:	2,170,731		137:	2,170,031	275—	8:	2,170,360		192:	2,170,677
	88:	2,170,412		105:	2,170,674	245—	8:	2,170,719		139:	2,169,993	279—	60:	2,170,769			
	111:	2,170,135	226—	63:	2,170,699	246—	3:	2,170,129		245:	2,170,484	280—11.26:		2,170,162			
	114:	2,170,317		80:	2,170,760		5:	2,170,141	259—	102:	2,170,280		37:	2,170,227			
		2,170,676			2,170,765	126:	2,170,467		260—	16:	2,170,187		81:	2,170,454			
	115:	2,170,337		116:	2,170,469	248—	1:	2,170,701			2,170,658		87.03:	2,170,616			

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

2,170,004:	285—	197	2,170,191:	260—	796	2,170,297:	191—	45	2,170,430:	131—	207	2,170,591:	219—	28	2,170,678:	261—	84
2,170,005:	199—	56	2,170,199:	2—	268	2,170,325:	248—	361	2,170,434:	106—	12	2,170,595:	254—	97	2,170,683:	176—	16
2,170,011:	29—	156	2,170,247:	210—	43	2,170,329:	51—	237	2,170,453:	260—	792	2,170,606:	51—	95	2,170,704:	183—	80
2,170,015:	123—	191	2,170,253:	18—	55	2,170,332:	62—	4	2,170,472:	29—	88.2	2,710,633:	29—	33	2,170,718:	308—	4
2,170,037:	260—	792	2,170,262:	260—	208	2,170,370:	116—	50	2,170,474:	260—	240	2,170,644:	23—	244	2,170,736:	74—	363
2,170,051:	107—	8	2,170,273:	134—	23.9	2,170,372:	260—	202	2,170,488:	271—	58	2,170,646:	164—	13	2,170,749:	49—	45
2,170,058:	121—	119	2,170,285:	173—	343	2,170,379:	190—	43	2,170,507:	237—	8	2,170,649:	192—	3.2	2,170,777:	237—	7
2,170,069:	209—	423	2,170,291:	90—	21.5	2,170,384:	139—	183	2,170,543:	235—	58	2,170,656:	62—	119			
2,170,114:	188—	222	2,170,292:	24—	71.3	2,170,402:	236—	12	2,170,547:	100—	50	2,170,663:	250—	162			
2,170,121:	188—	222	2,170,294:	84—	1.15	2,170,404:	301—	12	2,170,589:	43—	108	2,170,670:	260—	785			

U. S. GOVERNMENT PRINTING OFFICE: 1939

LIST OF TRADE-MARK APPLICANTS

PUBLISHED FOR OPPOSITION

[Act of Feb. 20, 1905, Sec. 6, as amended Mar. 2, 1907]

Acme Egg Co., Inc., New York, N. Y. Eggs. Serial No. 421,117; Aug. 29. Class 46.

Admiral Products Co. (See Strauss, I. Mayer.)

Alexander Bros. Company, Savannah, Ga. Overalls, work shirts, jumpers, etc. Serial No. 420,987; Aug. 29. Class 39.

Alvarez, Santiago, doing business as Alvarez Manufacturing Company, Laredo, Tex. General cleaner. Serial No. 407,082; Aug. 29. Class 4.

American Abrasive Metals Company, New York, N. Y. Rubber compound. Serial No. 420,799; Aug. 29. Class 12.

American Smelting and Refining Company, New York, N. Y. Solder. Serial No. 420,842; Aug. 29. Class 14.

Armstrong Cork Company, Lancaster, Pa. Ingredients for the preparation of a plastic composition. Serial No. 420,743; Aug. 29. Class 12.

Ashburner, A. Saunders, Swissvale, Pa. Neckties. Serial No. 420,444; Aug. 29. Class 39.

Asphalt Process Corporation, New York, N. Y. Liquid asphalt cut back. Serial No. 420,800; Aug. 29. Class 12.

Bamberger, L., & Co., Newark, N. J. Mattresses. Serial No. 421,959; Aug. 29. Class 32.

Bemis Bro. Bag Company, St. Louis, Mo. Bags. Serial No. 420,801; Aug. 29. Class 2.

Bendien, Hermanus P., Naarden, Netherlands. Artificial fertilizer. Serial No. 419,172; Aug. 29. Class 10.

Berg, Erdman, Detroit, Mich. Leather watch straps. Serial No. 420,662; Aug. 29. Class 40.

Best, Alfred M., Company Inc., New York, N. Y. Publication. Serial No. 384,954; Aug. 29. Class 38.

Bloc-Dry, Incorporated. (See French, Harriet H., assignor.)

Blue Line Hosiery Mills, Inc., New York, N. Y. Hosiery. Serial No. 420,802; Aug. 29. Class 39.

Boehringer, C. H., Sohn, Nieder-Ingelheim-on-the-Rhine, Germany. Beverages. Serial No. 415,700; Aug. 29. Class 45.

Bonita Packing Co., Guadalupe, Calif. Fresh vegetables. Serial No. 420,310; Aug. 29. Class 46.

Bonwit Teller, Inc., New York, N. Y. Dresses, coats, skirts, etc. Serial No. 420,711; Aug. 29. Class 39.

Boutells Corporation, Minneapolis, Minn. Row boats, motor boats, and canoes. Serial No. 415,070; Aug. 29. Class 19.

Bowden (Engineers) Limited, London, England. Flexible tubing. Serial No. 418,561; Aug. 29. Class 13.

Brady, Elsa, Frocks, St. Louis, Mo. Dresses. Serial No. 420,932; Aug. 29. Class 39.

Brunswick-Balke-Collender Company, The, Chicago, Ill. Billiard table covers. Serial No. 389,451; Aug. 29. Class 50.

Bull-Burger Company, The, Amarillo, Tex. Sandwiches. Serial No. 415,761; Aug. 29. Class 46.

Bupane Gas Company. (See Kohl, Otto A.)

Burd Piston Ring Company, Rockford, Ill. Piston rings. Serial No. 421,234; Aug. 29. Class 35.

Calvert Distilling Co., The, Baltimore, Md. Whiskey. Serial No. 411,083; Aug. 29. Class 49.

Cannon Mills Company, Kannapolis, N. C. Hosiery. Serial No. 402,176; Aug. 29. Class 39.

Carson Pirie Scott & Company, Chicago, Ill. Nightgowns and pajamas. Serial No. 419,657; Aug. 29. Class 39.

Catelli Food Products, Ltd., Montreal, Quebec, Canada. Pea soup. Serial No. 419,572; Aug. 29. Class 46.

Catlin, De Forest B., Boston, Mass. Osteopathic treatment tables. Serial No. 419,140; Aug. 29. Class 44.

Chase Brass & Copper Co. Incorporated, Waterbury, Conn. Electric lighting ceiling fixtures. Serial No. 421,235; Aug. 29. Class 21.

Clapp, Otis, & Son, Inc., Boston, Mass. Elastic hosiery and underwear. Serial No. 421,691; Aug. 29. Class 44.

Cleveland Range Company, The, Cleveland, Ohio. Steam pressure cooking units. Serial No. 419,142; Aug. 29. Class 34.

Collins and Aikman Corporation, Philadelphia, Pa. Tops and rovings. Serial No. 420,474; Aug. 29. Class 1.

Craddock-Terry Shoe Corporation, Lynchburg, Va. Men's and boys' leather shoes. Serial No. 419,417; Aug. 29. Class 39.

Crum, Emma W., Poughkeepsie, N. Y. Hospital signal cords and waste receptacle holders. Serial No. 421,371; Aug. 29. Class 44.

Culberlson Lemon Assn., Saticoy, Calif. Fresh citrus fruit. Serial No. 421,028; Aug. 29. Class 46.

D-Lek-Table Food Company. (See Van Wert, Earl C.)

Dau, Frederick W., New York, N. Y. Social registers or directories. Serial No. 419,955; Aug. 29. Class 38.

Davenshire Inc., Davenport, Iowa. Trousers and sportswear. Serial No. 420,751; Aug. 29. Class 39.

Deerpark Beverages, Inc., Port Jervis, N. Y. Sparkling ale. Serial No. 421,029; Aug. 29. Class 48.

Delgado, Hernando B., Cali, Colombia. Anthelmintic and vermifuge. Serial No. 420,989; Aug. 29. Class 6.

Diamond Shoe Co., New York, N. Y. Shoes. Serial No. 420,518; Aug. 29. Class 39.

Dictaphone Corporation, Bridgeport, Conn. Sound transmitters. Serial No. 419,501; Aug. 29. Class 36.

Dill Manufacturing Company, The, Cleveland, Ohio. Valve insides. Serial No. 414,691; Aug. 29. Class 13.

Dow Chemical Company, The, Midland, Mich. Insecticidal compositions. Serial Nos. 421,373–6; Aug. 29. Class 6.

Eastern Outfitting Co. of Los Angeles, Cal., Los Angeles, Huntington Park, Pasadena, and Long Beach, Calif. Ceramic dinnerware and cooking ware. Serial No. 419,958; Aug. 29. Class 30.

Electrol Incorporated, Clifton, N. J. Domestic oil burners and air conditioners. Serial No. 401,668; Aug. 29. Class 34.

Endeavor Publishing Corporation. (See Gibson & Gibson.)

Enrico Cigar Company, New York, N. Y. Cigars. Serial No. 421,019; Aug. 29. Class 17.

Eureka Publishing Corporation. (See Gronich, Mary T.)

Famous-Barr Co. (See May Department Stores Company, The.)

Feibel, K., Ltd., Los Angeles, Calif. Textile art piece goods. Serial No. 419,613; Aug. 29. Class 42.

Fidel Drug Company, Inc., New York, N. Y. Acriflavine hydrochloride, agar and oil, alkaline aromatic tablets, etc. Serial No. 421,135; Aug. 29. Class 6.

French, Harriet H., Newport, R. I., assignor to Bloc-Dry, Incorporated, New Haven, Conn. Clothes drying frame. Serial No. 407,185; Aug. 29. Class 24.

Furukawa Plantation Company, Inc., Davao, P. I. Dessicated coconut. Serial Nos. 418,870–1; Aug. 29. Class 46.

G. & G. Wholesale Grocers Inc., Brooklyn, N. Y. Canned tomatoes, canned fish. Serial No. 406,712; Aug. 29. Class 46.

Gail, G. W., Inc., Baltimore, Md. Sealing strips Serial No. 418,861; Aug. 29. Class 12.

Gantis Food Products Corp., New York, N. Y. Sweet milk cocoa. Serial No. 419,966; Aug. 29. Class 46.

Gastonia Full Fashioned Hosiery Mill, Inc., Gastonia, N. C. Hosiery. Serial No. 420,814; Aug. 29. Class 39.

Gemex Company, Newark, N. J. Watch straps, watch chains, wrist watch bracelets, etc. Serial No. 420,577; Aug. 29. Class 40.

General Baking Company, New York, N. Y. Bread. Serial No. 418,682; Aug. 29. Class 46.

General Motors Corporation, Detroit, Mich. Expansion valves. Serial No. 414,734; Aug. 29. Class 13.

Gentile, Antonio, and Nicholas A. Margiotta, Brooklyn, N. Y. Vehicle wheels. Serial No. 416,650; Aug. 29. Class 19.

Gibson & Gibson, assignor to Endeavor Publishing Corporation, New York, N. Y. Publication. Serial No. 407,980; Aug. 29. Class 38.

Globe Distributing Company, Baltimore, Md. Wines. Serial No. 418,635; Aug. 29. Class 47.

Goldman, Louis M., doing business as Lou-Bob Company, Chicago, Ill. Denatured alcohol. Serial No. 421,082; Aug. 29. Class 6.

Gronich, Mary T., doing business as Eureka Publishing Corporation, New York, N. Y. Periodical. Serial No. 420,411; Aug. 29. Class 38.

Hall China Company, East Liverpool, Ohio. Chinaware. Serial No. 420,058; Aug. 29. Class 30.

Harte, Ralph S., doing business as Harte & Co., New York, N. Y. Cellulose processed waterproof materials. Serial No. 420,858; Aug. 29. Class 50.

Hefley, Chas., doing business as Chas. Hefley Popcorn Products, Los Angeles, Calif. Buttered popped popcorn. Serial No. 420,374; Aug. 29. Class 46.

Henkel-Clauss Company, The, Fremont, Ohio. Manicure kits. Serial No. 421,652; Aug. 29. Class 44.

Herman, Shepard, Boston, Mass. Thermal insulating material. Serial No. 414,295; Aug. 29. Class 12.

House of Lowell, Incorporated. (See Shipman, Ray, assignor.)

Hudson Oil Co., Kansas City, Kans. Lubricating oil. Serial No. 407,549; Aug. 29. Class 15.

Hudson Oil Co., Kansas City, Kans. Lubricating oil. Serial No. 413,971; Aug. 29. Class 15.

Hygea Research Corporation, New York, N. Y. Leather. Serial No. 420,955; Aug. 29. Class 1.

Igoe Brothers, Inc., Newark, N. J. Rock wool and roofing material. Serial No. 419,339; Aug. 29. Class 12.

International Brotherhood of Teamsters, Chauffeurs, Stablemen & Helpers of America, Indianapolis, Ind., and Washington, D. C. Books, pamphlets, circulars, etc. Serial No. 406,553; Aug. 29. Class 38.

Ireland Bros., Johnstown, N. Y. Ladies' gloves. Serial No. 420,958; Aug. 29. Class 39.

Isaacson, L., & Sons, Inc., New York, N. Y. Suits, overalls, shorts, etc. Serial No. 420,323; Aug. 29. Class 39.
Island Packers. (See Tottori, Kakuichi.)
Ismert-Hincke Milling Company, The, Kansas City, Mo., doing business as The Riverview Mills Company, Topeka, Kans. Wheat flour. Serial No. 416,899; Aug. 29. Class 46.
Jacobs, John M., doing business as John Jacobs Farms, Phoenix, Ariz. Fresh vegetables and melons. Serial No. 409,811; Aug. 29. Class 46.
Kaplan, Felix A., & Co., Inc., New York, N. Y. Shirts. Serial No. 420,324; Aug. 29. Class 39.
Kelray Knitting Mills. (See Krumholz & Lichtblau.)
Kessler, Julius, Distilling Co., Inc., Lawrenceburg, Ind. Whiskey. Serial No. 408,443; Aug. 29. Class 49.
Kirby, Block & Company, New York, N. Y. Publication. Serial No. 421,044; Aug. 29. Class 38.
Kohl, Otto A., doing business as Bilpane Gas Company, Cedar Rapids, Iowa. Liquefied petroleum gas. Serial No. 419,811; Aug. 29. Class 6.
Kresge, Sebastian S., doing business as Kresge Department Store, Newark, Newark, N. J. Hand bags, trunks. Serial No. 419,024; Aug. 29. Class 3.
Krumholz & Lichtblau, doing business as Kelray Knitting Mills, New York, N. Y. Chemises, slips, petticoats, etc. Serial No. 420,009; Aug. 29. Class 39.
Lanitt Co., The, Boston, Mass. Soap. Serial No. 420,737; Aug. 29. Class 4.
Laucks, I. F., Inc., Seattle, Wash. Plywood, insulating board, and wall board. Serial No. 420,419; Aug. 29. Class 12.
Levinsohn, Sanders A., Inc., New York, N. Y. Suits and overcoats. Serial No. 421,045; Aug. 29. Class 39.
Lewis Bolt & Nut Company, Minneapolis, Minn. Guard rail cables, posts, offsets, etc. Serial No. 420,824; Aug. 29. Class 12.
Liberty Bottling Company. (See Lotti, Henry.)
Linkman, M., & Company, Chicago, Ill. Smoking pipes. Serial No. 419,000; Aug. 29. Class 8.
Llewellyn Laboratories, Inc., assignor, by mesne assignments, to Roses and Myrrh Inc., Philadelphia, Pa. Solution for human hygiene. Serial No. 418,687; Aug. 29. Class 6.
Lloyd Manufacturing Co., Inc., Apponaug, R. I. Card cloth, card clothing foundation, printers' offset blankets, etc. Serial No. 419,582; Aug. 22. Class 50.
Loewns, G., & Co., Inc., Newark, N. J. Fruit wine. Serial No. 413,832; Aug. 20. Class 47.
Los Angeles Sales Co., Los Angeles, Calif. Canned fruits, vegetables, fish, etc. Serial No. 420,960; Aug. 29. Class 46.
Lotti, Henry, doing business as Liberty Bottling Company, Memphis, Tenn. Beverage. Serial No. 417,519; Aug. 29. Class 45.
Lou-Bob Company. (See Goldman, Louis M.)
Lowell, Mary, Laboratories. (See Shipman, Ray.)
Lyon & Coulson, Incorporated, Buffalo, N. Y. Fishing tackle and sporting goods. Serial No. 420,721; Aug. 29. Class 22.
MacDonald, Robert W., Providence, R. I. Portable coolers or refrigerators. Serial No. 421,707; Aug. 29. Class 31.
MacDonald, Wilson P., Mount Royal, Quebec, Canada. Bread and pastry. Serial No. 418,160; Aug. 29. Class 46.
Madison Foods. (See Rural Educational Association.)
Main Laboratories, Inc., Olympia, Wash. Liquid gas. Serial No. 420,961; Aug. 29. Class 6.
Marcalus Manufacturing Co., Inc., Elizabeth, N. J. Tissue, napkins, neck strips, etc. Serial No. 421,091; Aug. 29. Class 37.
Margiotta, Nicholas A. (See Gentile, Antonio, and Nicholas A. Margiotta.)
Maxcy, L., Inc., Frostproof, Fla. Fresh citrus fruits. Serial No. 419,429; Aug. 29. Class 46.
May Department Stores Company, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo. Men's sweaters, bathing suits, jackets, etc. Serial No. 420,231; Aug. 29. Class 39.
May Department Stores, The, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; and Denver, Colo., doing business as Famous-Barr Co., St. Louis, Mo. Dresses, coats, jackets, etc. Serial No. 421,143; Aug. 29. Class 39.
McDougall, Alexander, & Company Limited, Glasgow and Islay, Scotland. Whisky. Serial Nos. 418,586–7; Aug. 29. Class 49.
Meyer, Earl O., doing business as Moe-Nade Laboratories, Denver, Colo. Preparation for cleaning and polishing glass and windows. Serial No. 419,209; Aug. 29. Class 4.
Mitsubishi Shoji Kaisha, Ltd., Tokyo, Japan, and New York, N. Y. Koto strings. Serial No. 420,013; Aug. 29. Class 36.
Moe-Nade Laboratories. (See Meyer, Earl O.)
Mohawk Rubber Company, The, Akron, Ohio. Pneumatic tires for vehicles. Serial No. 421,435; Aug. 29. Class 35.
Montsweag Food Products, Inc., Bath, Maine. Canned pie fillings. Serial No. 420,232; Aug. 29. Class 46.
Moore, Geo. D. (See Pickrell, George D.)
Müller, C. H. F., Aktiengesellschaft, Berlin, Germany. Electric generators, transmitters, transformers, etc. Serial No. 417,230; Aug. 29. Class 21.
National Canvas Goods Manufacturers Association, Inc., St. Paul, Minn. Tents. Serial No. 420,138; Aug. 29. Class 50.
National Silver Company, New York, N. Y. Electric shavers. Serial No. 417,503; Aug. 29. Class 23.
National Venetian Blind Co., Los Angeles, Calif. Venetian blinds. Serial No. 421,276; Aug. 29. Class 32.
Odora Company, Inc., New York, N. Y. Paperboard or corrugated paperboard storage receptacles, and moth-proof bags. Serial No. 421,251; Aug. 29. Class 2.
Ohio Leather Company, The, Girard, Ohio. Leather. Serial No. 420,723; Aug. 29. Class 1.
Oneida Ltd., Sherrill and Oneida, N. Y.; and Northampton, Mass. Silverplated flatware. Serial No. 420,139; Aug. 29. Class 28.
Optikotechna společnost s r. o., Prerov, Czechoslovakia. Optical lenses. Serial No. 413,680; Aug. 29. Class 26.
Oregon Worsted Company, New York, N. Y. General play ball. Serial No. 420,914; Aug. 29. Class 22.
Pacific Lumber Inspection Bureau, Seattle, Wash. Lumber, woodwork, paneling, etc. Serial No. 420,427; Aug. 29. Class 12.
Pacific Piston Ring Company. (See Shannon, S. Q.)
Paley-Sachs Food Co., Houston, Tex. Prepared baby foods. Serial No. 419,037; Aug. 29. Class 46.
Parker Pipe Company Limited, The, London, England. Tobacco pipes, cigar holders, and cigarette holders. Serial No. 419,732; Aug. 29. Class 8.
Parks, E. W., Company, Worcester, Mass. Sole leather. Serial No. 418,262; Aug. 29. Class 1.
Paul, Edward P., & Co., Inc., New York, N. Y. Ceramic tableware and vases. Serial No. 413,557; Aug. 29. Class 30.
Philadelphia Wholesale Drug Company, Philadelphia, Pa. Hard water soap and lavender shaving cream. Serial No. 419,877; Aug. 29. Class 4.
Pickrell, George D., doing business as Geo. D. Moore, Chicago, Ill. Wax remover. Serial No. 420,872; Aug. 29. Class 4.
Pioneer Suspender Company, Philadelphia, Pa. Suspenders, braces, and supporters. Serial No. 420,542; Aug. 29. Class 39.
Plough, Inc., Memphis, Tenn. Cough syrup, laxative quinine tablets, cough drops, etc. Serial No. 418,598; Aug. 29. Class 6.
Pullman Couch Company, Chicago, Ill. Upholstered furniture and furniture convertible into sleeping units. Serial No. 421,671; Aug. 29. Class 32.
Rail Steel Bar Association, Chicago, Ill. Rail-steel concrete reinforcement bars. Serial No. 420,430; Aug. 29. Class 12.
Rehhun, Richard, Flint, Mich. Infant foods. Serial No. 420,431; Aug. 29. Class 46.
Remington Rand Inc., Buffalo, N. Y. Electric dry shavers, attachments, and parts thereof. Serial No. 394,304; Aug. 29. Class 23.
Remington Rand Inc., Buffalo, N. Y. Electric motors and parts therefor. Serial No. 400,469; Aug. 29. Class 21.
Remington Rand Inc., Buffalo, N. Y. Tooth brushes and tooth brush attachments for electric motors. Serial No. 400,471; Aug. 29. Class 29.
Rhinelander Paper Company, Rhinelander, Wis. Parchment paper. Serial No. 420,969; Aug. 29. Class 37.
Richmond Hosiery Mills, Rossville, Ga. Hosiery. Serial No. 405,091; Aug. 29. Class 39.
Riverview Mills Company, The. (See Ismert Hincke Milling Company, The.)
Rogers Peet Company, New York, N. Y. Suits and overcoats. Serial No. 420,875; Aug. 29. Class 39.
Roses and Myrrh Inc. (See Llewellyn Laboratories, Inc., assignor.)
Ross Potato Chip Co., Richland, Pa. Popcorn coated with cheese. Serial No. 407,764; Aug. 29. Class 46.
Royal Lace Paper Works, Brooklyn, N. Y. Shelf and lining paper. Serial No. 421,054; Aug. 29. Class 37.
Ruinart, Paul, & Cie, Reims and Paris, France. Wines. Serial No. 409,977; Aug. 29. Class 47.
Rural Educational Association, doing business as Madison Foods, Madison College, Tenn. Canned protein food. Serial No. 421,055; Aug. 29. Class 46.
Saks & Company, New York, N. Y. Suits and overcoats. Serial No. 421,162; Aug. 29. Class 39.
Sand, John A., Jr., Chicago, Ill. Magnetized toy animals. Serial No. 421,946; Aug. 29. Class 22.
Sawada, Masaji, doing business as Tea Gold Co., New York, N. Y. Tea. Serial No. 420,645; Aug. 29. Class 46.
Sealy, Incorporated, Pittsburgh, Pa. Mattresses. Serial No. 421,950; Aug. 29. Class 32.
Sears, Roebuck and Co., Chicago, Ill. Moth-proofing solution. Serial No. 421,261; Aug. 29. Class 6.
Select Sportswear, Inc., New York, N. Y. Ladies' and misses' knitted sport sweaters and two piece knitted dresses. Serial No. 420,972; Aug. 29. Class 39.
Service Instruments, Inc., New York, N. Y. Publications. Serial No. 419,641; Aug. 29. Class 38.
Shannon, S. Q., doing business as Pacific Piston Ring Company, Los Angeles, Calif. Piston rings. Serial No. 421,204; Aug. 29. Class 35.

Shipman, Ray, doing business as Mary Lowell Laboratories, assignor to House of Lowell, Incorporated, Tippecanoe City, Ohio. Toilet articles and cosmetics. Serial No. 392,896; Aug. 29. Class 6.
Simmons Hardware Company, St. Louis, Mo. Fishing lines. Serial No. 421,622; Aug. 29. Class 22.
Sims, Lorin M., doing business as Sims Food Products, San Francisco, Calif. Alimentary paste products. Serial No. 420,879; Aug. 29. Class 46.
Southern Belting Company, Atlanta, Ga. Leather belting. Serial No. 421,327; Aug. 29. Class 35.
Starline Inc., Harvard, Ill. Metal stalls, curb clamps, alignment devices, etc. Serial No. 416,485; Aug. 29. Class 13.
Stechel, William, New York, N. Y. Sport shirts and pants. Serial No. 421,058; Aug. 29. Class 39.
Stove Mounters' International Union, St. Louis, Mo. Printed books, pamphlets, magazines. Serial No. 403,061; Aug. 29. Class 38.
Strauss, I. Mayer, doing business as Admiral Products Co., Maspeth, Long Island, N. Y. Paints and varnishes. Serial No. 420,028; Aug. 29. Class 16.
Strauss Stores Corp., Maspeth, Long Island, N. Y. Lubricating oils and greases, hydraulic brake oils, etc. Serial No. 420,027; Aug. 29. Class 15.
Tea Gold Co. (See Sawada, Masaji.)
Thermek Corporation, Chicago, Ill. Heat exchange tubing. Serial No. 413,252; Aug. 29. Class 13.
Timson, Louis E., doing business as Timson's, Boston, Mass. Compound for treating or dressing the uppers and soles of shoes, and other leather products. Serial No. 421,168; Aug. 29. Class 4.
Tobey-Fine Papers, Inc., St. Louis, Mo. Paper. Serial No. 421,169; Aug. 29. Class 37.
Tottori, Kakuichi, doing business as Island Packers, Honolulu, Hawaii. Fresh vegetables, fresh fruits. Serial No. 417,894; Aug. 29. Class 46.
Trade-Wind Motorfans, Inc., Los Angeles, Calif. Fans and blowers, and complete ventilating and cooling units. Serial No. 412,012; Aug. 29. Class 34.
Tyrrell and Garth, Inc., Houston, Tex. Canned fresh vegetables and vegetable juices. Serial No. 407,288; Aug. 29. Class 46.
Ulmann, Bernhard, Co. Inc., New York, N. Y. Stamped goods and art needlework package outfits. Serial No. 420,749; Aug. 29. Class 40.
United Aircraft Corporation, East Hartford, Conn. Aircraft propellers, parts, and attachments therefor. Serial No. 417,420; Aug. 29. Class 19.
United Cigar-Whelan Stores Corporation, New York, N. Y. Rubber gloves. Serial No. 420,467; Aug. 29. Class 39.
Vanity Fair Silk Mills, Reading, Pa. Hosiery and knitted and textile underwear. Serial No. 408,672; Aug. 29. Class 39.
Van Wert, Earl C., doing business as D-Lek-Table Food Company, Pasadena, Calif. Bottled salad dressing. Serial No. 420,298; Aug. 29. Class 46.
Victor Metal Products Corporation, New York and Brooklyn, N. Y. Capless collapsible tubes. Serial No. 408,934; Aug. 29. Class 2.
Vandewegh Trading Corp., New York, N. Y. Fur skins. Serial No. 420,740; Aug. 29. Class 1.
Walker, Hiram, & Sons Inc., Peoria, Ill. Whiskey. Serial No. 421,867; Aug. 29. Class 49.
Wamsutta Mills, New Bedford, Mass. Cotton piece goods and sheets and pillow cases. Serial No. 420,553; Aug. 29. Class 42.
Warner, William R., & Co., Inc., New York, N. Y. Elixir and pepsin. Serial No. 420,983; Aug. 29. Class 6.
Watson, Ira A., Company, Knoxville, Tenn. Ready mixed paints. Serial No. 420,121; Aug. 29. Class 16.
Westinghouse Air Brake Company, The, Wilmerding, Pa. Combined electrical and pneumatic vehicle brake and propulsion control units. Serial No. 416,527; Aug. 29. Class 21.
Whitlock, C. G., Co., Springfield, Ill. Embalming fluid. Serial No. 420,199; Aug. 29. Class 6.
Williamson Heater Company, The, Cincinnati, Ohio. Air conditioning units. Serial No. 383,045; Aug. 29. Class 34.
Windsor-Lloyd Products, Inc., Wilmington, Del. Bicycles. Serial No. 409,177; Aug. 29. Class 19.
Wolfenden, Harry C., doing business as R. Wolfenden & Sons, Attleboro, Mass. Fibres, sliver, slubbing, etc. Serial No. 408,938; Aug. 29. Class 1.
Wolf, Jacques, & Co., Clifton, N. J. Cationic active softening agent and finish for all textile fibres. Serial No. 421,332; Aug. 29. Class 6.
Wolf, Jacques, & Co., Clifton, N. J. Waterproof finish for all textile fibres. Serial No. 421,333; Aug. 29. Class 6.
Wolf, Jacques, & Co., Clifton, N. J. Chemical preparation. Serial No. 421,334; Aug. 29. Class 6.
Young's Merchandising Corporation, New York, N. Y. Hats and caps. Serial No. 420,153; Aug. 29. Class 39.
Ziniti, Evelyn, New York, N. Y. Ladies', misses', and children's shoes and slippers. Serial No. 419,828; Aug. 29. Class 39.

LIST OF REGISTRANTS OF TRADE-MARKS

Air Control Products, Inc., Muskegon, Mich. Registers, grilles, and damper control sets, etc. 370,570; Aug. 29; Serial No. 418,396; published June 20, 1939. Class 34.
Amendola, Raffaele, doing business as Enterprise Laboratories, New Haven, Conn. Hair tonic, shampoo, bay rum, etc. 370,394; Aug. 29; Serial No. 403,890; published June 13, 1939. Class 6.
America-Chiffon Co. (See Scott Products Co.)
American Cyanimid & Chemical Chemical Corporation, New York, N. Y. Chemical compound. 370,509; Aug. 29; Serial No. 417,394; published June 6, 1939. Class 6.
American Ferment Co., Inc., New York, N. Y. Dentifrice. 370,615; Aug. 29; Serial No. 418,911; published Jnne 20, 1939. Class 6.
American Metal Company, Limited, The, New York, N. Y. White arsenic. 128,602; renewed Jan. 13, 1940.
American Varnish Company, The, Chicago, Ill. Liquid paint enamels. 370,603; Aug. 29; Serial No. 418,699; published June 20, 1939. Class 16.
Amirol-Admiracion Sales Corporation, Newark, N. J. Hair coloring and shampoo treatment. 370,506; Aug. 29; Serial No. 417,355; published June 6, 1939. Class 6.
Ancienne Maison Louis Sanders, Société Anonyme, St. Gilles, near Brussels, Belgium. Preparation used in digestive disturbances in human beings and animals. 370,406–7; Aug. 29; Serial Nos. 407,047–8; published June 13, 1939. Class 6.
Andresin Laboratories. (See Levy, Rosabelle.)
Apex Hosiery Company, Philadelphia, Pa. Hosiery. 129,118; renewed Jan. 27, 1940.
Apffel, James A., doing business as Vac-U-Matic Products Co., Los Angeles, Calif. Accelerator actuated brake control. 370,457; Aug. 29; Serial No. 415,623; published June 13, 1939. Class 19.
Appeal Inc., Spokane, Wash. Bread. 370,408; Aug. 29; Serial No. 407,710; published June 20, 1939. Class 46.
Aqua-Sec Corp., New York, N. Y. Chemical preparations for finishing, sizing, etc. fabrics. 370,499; Aug. 29; Serial No. 417,047; published June 6, 1939. Class 6.
Arlen, George, Foot Health Center Ltd., The, New York, N. Y. Foot powder. 370,492; Aug. 29; Serial No. 416,886; published June 20, 1939. Class 6.
Athletika Laboratories. (See Kenda, Paul.)
Atlantic Laboratories. (See Persse, Joseph M.)
Auerbach Bath Robe Co., The, New York, N. Y. Bath robes. 370,671; Aug. 29. Class 39.
Augusta Knitting Corporation, Utica, N. Y. Underwear and outerwear. 370,662; Aug. 29. Class 39.
Austin, Nichols & Co., Incorporated, Brooklyn, N. Y. Fresh frozen berries, fruits, and vegetables; canned berries, etc. 370,428; Aug. 29; Serial No. 412,935; published June 20, 1939. Class 46.
Axton-Fisher Tobacco Company, The, Louisville, Ky. Cigarettes. 370,628; Aug. 29; Serial No. 419,065; published June 20, 1939. Class 17.
Babs Creations, Inc., New York, N. Y. Perfumes, face powder, lipsticks, etc. 370,552; Aug. 29; Serial No. 418,087; published June 13, 1939. Class 6.
Bauer, Dr. Armin, & Co. G. m. b. H., Berlin, Germany. Tonics. 370,456; Aug. 29; Serial No. 415,493; published June 6, 1939. Class 6.
Becker Pretzel Bakeries, Inc., Baltimore, Md. Cheese flavored popcorn. 370,405; Aug. 29; Serial No. 406,269; published July 12, 1938. Class 46.
Bell Textile Company, New York, N. Y. Sheets and pillow cases. 370,468; Aug. 29; Serial No. 416,244; published June 20, 1939. Class 42.
Bemax Laboratories, Inc., New York, N. Y. Medicinal preparation. 370,516; Aug. 29; Serial No. 417,478; published June 13, 1939. Class 6.
Bendix Aviation Corporation, South Bend, Ind. Vehicle steering stabilizers and parts thereof. 370,658; Aug. 29. Class 19.
Bernstein & Sons Shirt Corporation, New York, N. Y. Blouses, dress shirts, sports shirts, etc. 370,645; Aug. 29. Class 39.
Betzold Fur Cleaners, Philadelphia, Pa. Preparation for softening furs and fur garments. 370,395; Aug. 29; Serial No. 403,984; published May 3, 1938. Class 6.
Binghamton Knitting Co., Inc., Binghamton, N. Y. Sweaters, sweater coats, surcoats, etc. 370,668; Aug. 29. Class 39.
Bio-Products Laboratory Co., Brooklyn, N. Y. Medicinal preparation. 370,470; Aug. 29; Serial No. 416,282; published June 6, 1939. Class 6.
Bireley's Inc., Hollywood, Calif. Nonalcoholic beverages, fruit juices, and fruit juice products, etc. 370,634; Aug. 29; Serial No. 419,174; published June 20, 1939. Class 45.
Black & Decker Manufacturing Company, The, Towson, Md. Electrical apparatus and machines and accessories. 370,560; Aug. 29; Serial No. 418,234; published June 20, 1939. Class 21.
Bloede, Victor G., Company Incorporated, Baltimore, Md. Paper-sizing composition. 370,573; Aug. 29; Serial No. 418,404; published May 30, 1939. Class 6.
Bocan Drug Co. (See Bockmann, Frederick A.)

Bockmann, Frederick A., doing business as Bocan Drug Co., Utica, N. Y. Laxative tablets. 370,404; Aug. 29; Serial No. 406,080; published June 28, 1938. Class 6.
Bonney Forge & Tool Works, Allentown, Pa. Mechanics' hand tools. 370,527; Aug. 29; Serial No. 417,638; published June 20, 1939. Class 23.
Boott Mills, Lowell, Mass. Towels. 370,427; Aug. 29; Serial No. 412,850; published June 20, 1939. Class 42.
Borden Company, The, New York, N. Y. Candies. 370,539; Aug. 29; Serial No. 417,867; published June 20, 1939. Class 46.
Branower, Edmund I., doing business as Branower Chemical Company, New York, N. Y. Mouth deodorant. 370,449; Aug. 29; Serial No. 415,156; published June 6, 1939. Class 6.
Brides House, Inc., New York, N. Y. Decorating and planning kits. 370,436; Aug. 29; Serial No. 413,510; published June 20, 1939. Class 50.
Bro-Kade Wall Finish Co., Inc., Milwaukee, Wis. Painters' stencils. 370,497; Aug. 29; Serial No. 416,982; published June 20, 1939. Class 23.
Brown Instrument Company, The, Philadelphia, Pa. Instruments for measuring radiant energy. 370,443; Aug. 29; Serial No. 414,724; published June 20, 1939. Class 26.
Bulien, Joseph W., Folcroft, Pa. Disinfectant. 128,947–8; renewed Jan. 20, 1940.
California Spray-Chemical Corporation, Wilmington, Del., and Richmond, Calif. Parasiticides. 370,636; Aug. 29; Serial No. 419,219; published June 20, 1939. Class 6.
Camden Furniture Company, Camden, Ark. Mirrors. 370,653; Aug. 29. Class 32.
Candy House, The, Seattle, Wash. Candy bars. 370,532; Aug. 29; Serial No. 417,797; published June 20, 1939. Class 46.
Cape Cod Art Glass Co., North Abington, Mass. Glass tableware and decorative glass. 370,440; Aug. 29; Serial No. 414,336; published June 6, 1939. Class 33.
Carr Chemical Co., The. (See Simons, Sidney G.)
Casco Company, The, Canton, Ohio. Laxative. 370,571; Aug. 29; Serial No. 418,397; published May 30, 1939. Class 6.
Casco Company, The, Canton, Ohio. Antacid. 370,572; Aug. 29; Serial No. 418,398; published May 30, 1939. Class 6.
Caso, Frank P., New York, N. Y. Local anesthetic. 370,444; Aug. 29; Serial No. 415,024; published June 6, 1939. Class 6.
Central Steel & Wire Company, Chicago, Ill. Cast-iron-welding metal. 126,138; renewed July 29, 1939.
Chambon Corporation, Garfield, N. J. Web printing machines and accessories. 370,596; Aug. 29; Serial No. 418,629; published June 20, 1939. Class 23.
Clayton, Lulu, doing business as Madam Lulu Clayton, Kinloch, Mo. Hair pomade. 370,493; Aug. 29; Serial No. 416,891; published June 6, 1939. Class 6.
Cleveland Punch & Shear Works Co., The, Cleveland, Ohio. Punching machines, bending rolls, flanging clamps, etc. 370,507; Aug. 29; Serial No. 417,359; published June 20, 1939. Class 23.
Climax Reflector, Inc., assignor to Smally Products, Inc., Canton, Ohio. Reflectors and display lighting. 370,400; Aug. 29; Serial No. 405,371; published June 6, 1939. Class 34.
Columbia Winery and Fruit Distilling Co., Inc., Vancouver, Wash. Wine punch. 370,474–7; Aug. 29; Serial Nos. 416,541–4; published May 30, 1939. Class 47.
Columbia Winery and Fruit Distilling Co., Inc., Vancouver, Wash. Wine punch. 370,478; Aug. 29; Serial No. 416,546; published May 30, 1939. Class 47.
Comptoir des Textiles Artificiels Société Anonyme, Paris, France. Textile fabrics and piece goods, and table and bed linen. 370,459; Aug. 29; Serial No. 415,704; published June 20, 1939. Class 42.
Conrad & Company, Ridgefield, N. J. Musical reeds. 370,661; Aug. 29. Class 36.
Coty, Inc., New York, N. Y. Face powder, toilet water, perfume, etc. 370,420; Aug. 29; Serial No. 412,085; published June 20, 1939. Class 6.
Cow & Gate (Canada) Limited, Gananoque, Ontario, Canada. Product for bakery use. 370,484; Aug. 29; Serial No. 416,722; published June 20, 1939. Class 46.
Crossley Motors Limited, Gorton, England. Automobiles. 370,664; Aug. 29. Class 19.
Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany. Electric motors, ignition-batteries, accumulators, etc. 370,391; Aug. 29; Serial No. 403,647; published June 20, 1939. Class 21.
Dalar Medical Laboratories, Inc., New York, N. Y. Ointment for skin diseases. 370,528; Aug. 29; Serial No. 417,644; published June 13, 1939. Class 6.
De Long Hook and Eye Company, The, Philadelphia, Pa. Hooks and eyes, snap-fasteners, safety-pins, etc. 127,375; renewed Nov. 11, 1939.
De Long Hook and Eye Company, The, Philadelphia, Pa. Snap-fasteners. 127,376; renewed Nov. 11, 1939.
D'Emarese, E., di S. Richetta & Figli, Turin, Italy. Vermouth. 370,409; Aug. 29; Serial No. 408,187; published June 13, 1939. Class 47.
Detroit Briar Pipe Company, Detroit, Mich. Tobacco pipes. 370,647; Aug. 29. Class 8.
Dietetic Research Laboratories, Inc., Bloomfield, N. J. Preparation of vitamins and minerals. 370,439; Aug. 29; Serial No. 414,289; published May 30, 1939. Class 6.
Doho Chemical Corporation, The, New York, N. Y. Antiseptic ear drops. 370,607; Aug. 29; Serial No. 418,771; published June 6, 1939. Class 6.
Dover Mill Company, Shelby, N. C. Rayon and cotton dress goods and suitings. 370,656; Aug. 29. Class 42.
Dow Chemical Company, The, Midland, Mich. Dry cleaning solvents. 370,415–16; Aug. 29; Serial Nos. 411,826–7; published June 20, 1939. Class 4.
Dunk Donut Co., The, Cleveland, Ohio. Crullers, doughnuts, and fried cakes. 370,553; Aug. 29; Serial No. 418,095; published June 20, 1939. Class 46.
Dunwoodie, David, Dayton, Ohio. Smoking pipes. 370,623; Aug. 29; Serial No. 418,969; published June 20, 1939. Class 8.
Durkee Famous Foods. (See Glidden Company, The.)
Economy Forms Corporation, Des Moines, Iowa. Spreader tie pullers, pin tools, plate clamp tools, etc. 370,498; Aug. 29; Serial No. 417,003; published June 20, 1939. Class 23.
Eez Company, The. (See Hannan, Willett W.)
Electric Controller & Mfg. Co., The, Cleveland, Ohio. Electric switches and contactors. 370,512; Aug. 29; Serial No. 417,446; published June 20, 1939. Class 21.
Ellena Brothers, Etiwanda, Calif. Champagne. 370,402; Aug. 29; Serial No. 405,439; published Aug. 16, 1938. Class 47.
Empire Silk Company, Wilmington, Del., and New York, N. Y., assignor to A. D. Juilliard & Co., Inc., New York, N. Y. Silk piece goods. 125,998; renewed July 22, 1939.
Enterprise Laboratories. (See Amendola, Raffaele.)
Epstein, Oscar. (See Shotwell Company, The.)
Etablissements Antoine Chiris, Compagnie des Produits Aromatiques Chimiques et Medicinaux, Societe Anonyme, Paris, France. Essential oils. 370,426; Aug. 29; Serial No. 412,760; published June 6, 1939. Class 6.
Euclid Candy Co. of California, Inc., The, San Francisco, Calif. Candy bars. 370,554; Aug. 29; Serial No. 418,096; published June 20, 1939. Class 46.
Faith Mills, Inc., Averill Park, N. Y. Cloth. 370,491; Aug. 29; Serial No. 416,845; published June 20, 1939. Class 42.
Ferry-Morse Seed Company, Detroit, Mich. Insecticide. 370,399; Aug. 29; Serial No. 405,353; published June 6, 1939. Class 6.
Fillauer, George W., Chattanooga, Tenn. Medicines. 126,276; renewed Aug. 19, 1939.
Fisher Flouring Mills Company, Seattle, Wash. Wheat flour. 370,586–9; Aug. 29; Serial Nos. 418,517–20; published June 20, 1939. Class 46.
Fitzgibbons Boiler Company, Inc., New York, N. Y. Furnaces. 370,670; Aug. 29. Class 34.
5 Vitamins Llac Co., The. (See Mayer, A. Kiefer.)
Florida Fruit Canners, Inc., Frostproof, Fla. Canned fruits and juices. 370,558; Aug. 29; Serial No. 418,191; published June 20, 1939. Class 46.
French, R. T., Company, The, Rochester, N. Y. Antiseptic and germicide. 370,520; Aug. 29; Serial No. 417,569; published June 6, 1939. Class 6.
French, R. T. Company, The, Rochester, N. Y. Antiseptic and germicide. 370,521; Aug. 29; Serial No. 417,571; published June 6, 1939. Class 6.
Gates, William, Norfolk, Va. Candy cough-drops. 126,160; renewed July 29, 1939.
Gaw-O'Hara Envelope Co., Chicago, Ill. Envelopes and writing paper. 370,480; Aug. 29; Serial No. 416,604; published June 20, 1939. Class 37.
General Beverage Corp., Springfield, Mass. Orange beverages and syrups for the same. 370,503; Aug. 29; Serial No. 417,278; published June 20, 1939. Class 45.
General Chemical Company, New York, N. Y. Insecticides. 370,543; Aug. 29; Serial No. 417,963; published June 13, 1939. Class 6.
General Motors Corporation, Detroit, Mich. Condensers of refrigerating systems. 370,389; Aug. 29; Serial No. 401,021; published June 20, 1939. Class 31.
General Scientific Corporation, Chicago, Ill. Assembled lenses and mountings therefor. 370,513; Aug. 29; Serial No. 417,455; published June 20, 1939. Class 26.
Gladdy-Colleen, Inc., New York, N. Y. Dresses. 370,657; Aug. 29. Class 39.
Glidden Company, The, doing business as Durkee Famous Foods, Cleveland, Ohio. Vegetable shortening. 370,597; Aug. 29; Serial No. 418,634; published June 20, 1939. Class 46.
Goodyear Tire & Rubber Company, The, Akron, Ohio. Tires and inner tubes therefor. 370,610; Aug. 29; Serial No. 418,828; published June 20, 1939. Class 35.
Grainger, W. B., Packing Company, Salinas, Calif. Fresh vegetables. 370,574; Aug. 29; Serial No. 418,406; published June 20, 1939. Class 46.
Gulberson Oil Heater Company. (See Pyle Manufacturing Company, assignor.)
Haack Bros. Manufacturing Pharmacists, Portland, Oreg. Tablets containing certain drugs. 370,471; Aug. 29; Serial No. 416,511; published June 6, 1939. Class 6.
Haffenreffer & Co., Inc. (See Harvard Company, assignor.)

Haley, L. B., doing business as Haley Canning Company, Hillsboro, Oreg. Beef broth, chicken and noodles, pot roast beef, etc. 370,651; Aug. 29. Class 46.
Hannan, Willett W., doing business as The Eez Company, Jamaica, N. Y. Insecticide and parasite killer for dogs and no other animals. 370,481; Aug. 29; Serial No. 416,607; published May 30, 1939. Class 6.
Hart Products Corporation, The, New York, N. Y. Waterproofing compound for textiles. 370,514; Aug. 29; Serial No. 417,457; published June 13, 1939. Class 6.
Harvard Company, Lowell, assignor, by mesne assignments, to Haffenreffer & Co., Inc., Boston, Mass. Cereal malt beverage. 129,163; renewed Jan. 27, 1940.
Henning, Dr. Georg, Chem. Pharm. Werk G. m. b. H., Berlin-Tempelhof, Germany. Preparation containing the glycosides of digitalis. 370,592; Aug. 29; Serial No. 418,569; published June 6, 1939. Class 6.
Henning, Dr. Georg, Chem. Pharm. Werk G. m. b. H., Berlin-Tempelhof, Germany. Adrenalin extract. 370,593; Aug. 29; Serial No. 418,570; published June 6, 1939. Class 6.
Hercules Powder Company, Wilmington, Del. Cleaning preparation. 370,425; Aug. 29; Serial No. 412,602; published June 20, 1939. Class 4.
Hickman, Williams & Co., Cincinnati, Ohio. Coke. 370,517; Aug. 29; Serial No. 417,492; published June 20, 1939. Class 1.
Hilger, Adam, Limited, London, England. X-ray apparatus for industrial purposes. 370,489; Aug. 29; Serial No. 416,767; published June 20, 1939. Class 26.
Hille Laboratories, Chicago, Ill. Medicinal compound. 127,416–17; renewed Nov. 11, 1939.
Hoffmann-La Roche, Inc., Nutley, N. J. Individual containers made of gelatine or other suitable material. 370,611; Aug. 29; Serial No. 418,834; published June 6, 1939. Class 6.
Holland Food Corporation, New York, N. Y. Condensed milk. 127,619; renewed Nov. 18, 1939.
Holland Food Corporation, New York, N. Y. Condensed milk. 129,166; renewed Jan. 27, 1940.
Holland Food Corporation, New York, N. Y. Cheese. 370,501; Aug. 29; Serial No. 417,172; published June 20, 1939. Class 46.
Homelike Canning & Packing Co., San Francisco, Calif. Canned fruits, vegetables, fish, etc. 370,567; Aug. 29; Serial No. 418,340; published June 20, 1939. Class 46.
Honey Web Inc., New York, N. Y. Ribbon fly catcher. 370,613; Aug. 29; Serial No. 418,875; published June 20, 1939. Class 50.
Hormel, Geo. A., Austin, Minn. Canned luncheon meat. 370,467; Aug. 29; Serial No. 416,188; published June 20, 1939. Class 46.
Hunt, C. Howard, Pen Co., Camden, N. J. Linoleum cutting tools. 370,594; Aug. 29; Serial No. 418,577; published June 20, 1939. Class 23.
Hydraulic Mfg. Company, Troy, Ill. Hydraulic stokers. 370,604; Aug. 29; Serial No. 418,715; published June 20, 1939. Class 34.
Hygrade Sylvania Corporation, Salem, Mass. Electric lamps. 370,385; Aug. 29; Serial No. 390,651; published June 20, 1939. Class 21.
Hygrade Sylvania Corporation, Salem, Mass. Electric lamps, electrielight translating devices. 370,386; Aug. 29; Serial No. 390,652; published June 20, 1939. Class 21.
Imco Co., The. (See Kohn, Julius.)
Ingersoll-Rand Company, Jersey City, N. J., and New York, N. Y., to Ingersoll-Rand Company, New York, N. Y. Core-drills. 128,407; renewed Jan. 6, 1940.
Insulation Development Corporation, Monroe, Mich. Spring units for use in seat cushions. 370,637; Aug. 29; Serial No. 419,426; published June 20, 1939. Class 32.
Irvington Shirt Corporation, New York, N. Y. Men's shirts, pajamas, underwear, etc. 370,672; Aug. 29. Class 39.
Italian Swiss Colony, San Francisco, Calif. Wines. 370,529; Aug. 29; Serial No. 417,734; published May 30, 1939. Class 47.
Italian Swiss Colony, San Francisco, Calif. Wines. 370,555; Aug. 29; Serial No. 418,106; published June 13, 1939. Class 47.
Jarvis, H. E., & Co., Limited, London, England. Toilet powders and lotions, impregnated pads, etc. 370,575; Aug. 29; Serial No. 418,410; published May 30, 1939. Class 6.
Johansson, Carl E., Eskilstuna, Sweden. Drills, dies, screw-thread-cutting tools, etc., and parts thereof. 126,172; renewed July 29, 1939.
Johnson, Robert Wm., Baltimore, Md. Medicinal tablets. 370,494; Aug. 29; Serial No. 416,900; published June 6, 1939. Class 6.
Johnson, S. C., & Son, Inc., Racine, Wis. Varnish. 370,447; Aug. 29; Serial No. 415,121; published June 13, 1939. Class 16.
Juilliard, A. D., & Co., Inc. (See Empire Silk Company, assignor.)
Kaplan, Joseph A., Inc., New York, N. Y. Shower curtains. 370,665–6; Aug. 29. Class 13.
Kay Preparations Co. Inc., New York, N. Y. Skin lotion. 370,434; Aug. 29; Serial No. 413,446; published June 6, 1939. Class 6.
Kenda, Paul, doing business as Athletika Laboratories, San Antonio, Tex. Patent medicine. 370,462; Aug. 29; Serial No. 415,950; published June 6, 1939. Class 6.
Keystone Mfg. Co., Boston, Mass. Photographic apparatus and supplies. 370,612; Aug. 29; Serial No. 418,839; published June 20, 1939. Class 26.
Kleenco Boiler Products Company. (See Windschauer, Max.)
Kleinert, I. B., Rubber Company, New York, N. Y. Dress shields. 370,649; Aug. 29. Class 40.
Knight, J. B., Sr., doing business as Old 97 Manufacturing Co., and La Charma Company, Tampa, Fla. Toilet creams, shampoos, deodorants, etc. 370,438; Aug. 29; Serial No. 413,907; published June 13, 1939. Class 6.
Kohn, Julius, doing business as The Imco Co., New York, N. Y. Cigarette and cigar lighters. 370,546; Aug. 29; Serial No. 418,008; published June 20, 1939. Class 34.
Krasne, A., Inc., New York, N. Y. Paper towels and toilet tissue. 370,659; Aug. 29. Class 37.
Kress, S. H., and Company, New York, N. Y. Toy paint sets, children's water colors, children's paint books, etc. 370,646; Aug. 29. Class 22.
Labagnara, Frank, doing business as Labagnara & Son, Cleveland, Ohio. Scalp tonic. 370,508; Aug. 29; Serial No. 417,377; published June 6, 1939. Class 6.
La Charma Company. (See Knight, J. B., Sr.)
La Flex Products, Mishawaka, Ind. Sleeping pillows. 370,616; Aug. 29; Serial No. 418,928; published June 20, 1939. Class 32.
La Forest Laboratories Company, New York and Long Island City, N. Y. Solution of glandular products and mineral salts. 370,464; Aug. 29; Serial No. 415,980; published June 6, 1939. Class 6.
Lanman & Kemp-Barclay & Co. Incorporated, New York, N. Y. Toilet creams. 370,423; Aug. 29; Serial No. 412,414; published May 23, 1939. Class 6.
Lee, Michael E., doing business as The Merlek Co., Oakland, Calif. Artificial mineral waters. 370,411; Aug. 29; Serial No. 409,813; published June 6, 1939. Class 6.
Les Parfums de Dana, Inc., New York, N. Y. Perfumes, toilet water, cologne, etc. 370,451; Aug. 29; Serial No. 415,295; published June 13, 1939. Class 6.
Letellier-Phillips Paper Company, Inc., New Orleans, La. Wiping cloths. 370,397; Aug. 29; Serial No. 404,568; published Aug. 2, 1938. Class 29.
Lever Brothers Company, Cambridge, Mass. Soap. 370,584; Aug. 29; Serial No. 418,485; published June 20, 1939. Class 4.
Levy, Rosabelle, doing business as Andresin Laboratories, Springfield Gardens, N. Y. Dentifrice and mouth wash. 370,441; Aug. 29; Serial No. 414,421; published June 6, 1939. Class 6.
Lewis, Mme. Martha, Donora, Pa. Preparations for the hair and treatment of the scalp. 370,522; Aug. 29; Serial No. 417,580; published June 6, 1939. Class 6.
Linok Herbal Products. (See Manzoni, Lino.)
Lowell, P. Marcus, Amesbury, Mass. Sailboats. 370,431; Aug. 29; Serial No. 413,413; published June 6, 1939. Class 19.
Luminous Processes, Inc., New York, N. Y. Self-luminous devices. 370,450; Aug. 29; Serial No. 415,253; published Apr. 11, 1939. Class 34.
Lyndon Products Corporation, Norwalk, Conn. Perfume and deodorant dispensing diffusers and disseminators for attachment to lamps. 370,540; Aug. 29; Serial No. 417,881; published June 20, 1939. Class 13.
Lyndon Products Corporation, Norwalk, Conn. Perfume. 370,541; Aug. 29; Serial No. 417,882; published June 13, 1939. Class 6.
Mack Manufacturing Corporation, Long Island City, N. Y. Internal combustion engines. 370,523; Aug. 29; Serial No. 417,582; published June 20, 1939. Class 23.
Macy, R. H., & Co., Inc., New York, N. Y. Perfumes. 370,445; Aug. 29; Serial No. 415,047; published June 13, 1939. Class 6.
Maine State Packing Company, Inc., Boothbay Harbor, Maine. Vacuum packed shoestring potatoes. 370,533; Aug. 29; Serial No. 417,809; published June 20, 1939. Class 46.
Maison Joubert, Inc., Jersey City, N. J. Astringents, astringent cerates, beauty creams, etc. 370,502; Aug. 29; Serial No. 417,177; published June 6, 1939. Class 6.
Mandl, Alex J., Inc., Hagerstown, Md. Rye whiskey. 370,617; Aug. 29; Serial No. 418,930; published June 20, 1939. Class 49.
Manhattan Shirt Company, The, New York, N. Y. Men's outer shirts, pajamas, and shorts. 370,673; Aug. 29. Class 39.
Manzoni, Lino, doing business as Linok Herbal Products, New York, N. Y. Syrup for asthma, bronchitis, coughs, etc. 370,590; Aug. 29; Serial No. 418,524; published May 30, 1939. Class 6.
Manzoni, Lino, doing business as Linok Herbal Products, New York, N. Y. Cream for burns and sprains. 370,591; Aug. 29; Serial No. 418,525; published May 30, 1939. Class 6.
Marion, Frank, doing business as Marion Pharmacal Laboratories, New York, N. Y. Medicinal and pharmaceutical preparations. 370,429; Aug. 29; Serial No. 413,020; published June 13, 1939. Class 6.

Marion, Frank, doing business as Marion Pharmacal Laboratories, New York, N. Y. Medicinal and pharmaceutical preparations. 370,463; Aug. 29; Serial No. 415,951; published June 13, 1939. Class 6.

Marmaduke, J. M., Deepwater, Mo. Preparation used in the treatment of croup, sore throat, hoarseness, etc. 370,534; Aug. 29; Serial No. 417,810; published June 6, 1939. Class 6.

Maurice, Bert J., Washington, D. C. Ointment. 370,625; Aug. 29; Serial No. 419,029; published June 13, 1939. Class 6.

Mayer, A. Kiefer, doing business as The 5 Vitamins Liac Co., Indianapolis, Ind. Vitamin capsules. 370,410; Aug. 29; Serial No. 409,479; published Nov. 29, 1938. Class 6.

Maysett Co., The. (See Weisler, Walter E.)

McCarthy, Justin J., doing business as The Wilmac Laboratories, Brighton, Boston, Mass. Chemical compound. 370,510; Aug. 29; Serial No. 417,406; published June 6, 1939. Class 6.

McGraw Electric Company, Chicago, Ill. Receptacles. 370,417; Aug. 29; Serial No. 411,878; published June 6, 1939. Class 13.

McGraw Electric Company, Chicago, Ill. Receptacles. 370,418; Aug. 29; Serial No. 411,884; published June 6, 1939. Class 13.

Merck & Co. Inc., Rahway, N. J. Medicinal preparations used in bacterial infections. 370,576; Aug. 29; Serial No. 418,414; published May 30, 1939. Class 6.

Merlek Co., The. (See Lee, Michael E.)

Michigan Tank & Furnace Corporation, Detroit, Mich. Furnaces, with and without air conditioning equipment. 370,519; Aug. 29; Serial No. 417,547; published May 30, 1939. Class 34.

Miller Drug Co., Rochester, N. Y. Reducing preparation. 370,485; Aug. 29; Serial No. 416,736; published June 6, 1939. Class 6.

Min-Aqua Co., Inc., Caldwell Township, N. J. Maltless, noncereal beverages. 370,549; Aug. 29; Serial No. 418,050; published June 20, 1939. Class 45.

Mitchell & Peirson Inc., Philadelphia, Pa. Leather. 370,556; Aug. 29; Serial No. 418,113; published June 20, 1939. Class 1.

Monowatt Electric Corporation, Providence, R. I. Electrical connectors. 370,536; Aug. 29; Serial No. 417,846; published June 20, 1939. Class 21.

Monsanto Chemical Company, St. Louis, Mo. Aromatic substances. 370,550; Aug. 29; Serial No. 418,051; published June 13, 1939. Class 6.

Moorhead Knitting Company, Harrisburg, Pa. Men's hose. 370,654; Aug. 29. Class 39.

Morgan, John (a corporation), Brooklyn, N. Y. Beverages. 370,655; Aug. 29. Class 45.

Morrell, John, & Co., Ottumwa, Iowa. Breakfast-bacon. 128,795; renewed Jan. 13, 1940.

Mück, Rudolf, New York, N. Y. Musical instruments and accessories. 370,650; Aug. 29. Class 36.

Murcott & Campbell, Inc., New York, N. Y. Files. 370,667; Aug. 29. Class 23.

National Candy Co., Inc., St. Louis, Mo. Candy confection. 370,547; Aug. 29; Serial No. 418,013; published June 20, 1939. Class 46.

National Fabrics Corporation, New York, N. Y. Textile fabrics. 370,557; Aug. 29; Serial No. 418,162; published June 20, 1939. Class 42.

National Lead Company, New York, N. Y. White lead and oxide of lead. 370,605; Aug. 29; Serial No. 418,735; published June 20, 1939. Class 16.

National Pattern Co., Inc., The, New York, N. Y. Garment patterns. 370,530–1; Aug. 29; Serial Nos. 417,770–1; published June 20, 1939. Class 26.

National Sanitary Health Service. (See Rhoads, James F.)

National Supply Company, The, Pittsburgh, Pa. Metal pipes and tubes. 370,577; Aug. 29; Serial No. 418,415; published June 20, 1939. Class 13.

Newman, Harry L., New York, N. Y. Wearing apparel. 370,455; Aug. 29; Serial No. 415,484; published June 6, 1939. Class 39.

Nielsen & Kittle Canning Co. Ltd., Terminal, to Van Camp Sea Food Co. Inc., Terminal Island, Calif., successor. Canned sardines. 127,099; renewed Oct. 21, 1939.

Nueburger, C. A. Company. (See Oshkosh Muslin Underwear Co.)

Nyal Company, Detroit, Mich. Preparation used in the treatment of certain genito-urinary conditions. 370,618; Aug. 29; Serial No. 418,935; published June 20, 1939. Class 6.

Nyal Company, Detroit, Mich. General tonic. 370,619; Aug. 29; Serial No. 418,936; published June 20, 1939. Class 6.

Nyal Company, Detroit, Mich. Preparation used in the treatment of rheumatic fever. 370,620; Aug. 29; Serial No. 418,937; published June 20, 1939. Class 6.

Nyal Company, Detroit, Mich. Lozenge for the throat. 370,638; Aug. 29; Serial No. 419,434; published June 20, 1939. Class 6.

Nyal Company, Detroit, Mich. Tonic. 370,639–40; Aug. 29; Serial Nos. 419,435–6; published June 20, 1939. Class 6.

Nyal Company, Detroit, Mich. Ear ache drops. 370,641; Aug. 29; Serial No. 419,437; published June 20, 1939. Class 6.

Nyal Company, Detroit, Mich. Ephedrine nasal jelly. 370,642; Aug. 29; Serial No. 419,438; published June 20, 1939. Class 6.

Nyal Company, Detroit, Mich. Preparation used in the treatment of dysentery and diarrhea. 370,643; Aug. 29; Serial No. 419,439; published June 20, 1939. Class 6.

Old 97 Manufacturing Co. (See Knight, J. B., Sr.)

Oliver Farm Equipment Company, Chicago, Ill. Plows, plowshares, and parts thereof. 370,525; Aug. 29; Serial No. 417,623; published June 20, 1939. Class 23.

Ollendorff, I., Company, to Ollendorff Watch Co., Inc., New York, N. Y., successor. Watches and watch-movements. 126,050; renewed July 22, 1939.

Oneida Ltd., Sherrill and Oneida, N. Y., and Northampton, Mass. Stainless steel and stainless iron table and kitchen dishes and pans. 370,388; Aug. 29; Serial No. 395,080; published May 30, 1939. Class 13.

Oneida Ltd., Sherrill and Oneida, N. Y., and Northampton, Mass. Plates, cups, saucers, etc. 370,419; Aug. 29; Serial No. 412,057; published June 20, 1939. Class 30.

Oshkosh Muslin Underwear Co., Oshkosh, Wis., now by change of name, to C. A. Neuburger. Ladies' and children's underwear and aprons. 126,052; renewed July 22, 1939.

Palm Valley Canning Company. (See Tyrrell & Garth, Inc.)

Palm Works. (See Walters' "Palm" Toffee Limited.)

Palmieri, Thomas, doing business as Shapira Chemical Company, San Anselmo, Calif. Tooth powder. 370,580; Aug. 29; Serial No. 418,449; published May 30, 1939. Class 6.

Parker Rust Proof Company, Detroit, Mich. Chemicals for treating steel surfaces. 370,624; Aug. 29; Serial No. 418,980; published June 13, 1939. Class 6.

Parsons Chemical Works, Grand Ledge, Mich. Seed treating compounds, disinfectants, repellents, etc. 370,564; Aug. 29; Serial No. 418,310; published June 13, 1939. Class 6.

Pedmor Products Co. (See Schwartzenfeld, Edward.)

Pennsylvania Aircraft Syndicate, Ltd., Philadelphia, Pa. Solid metal stays, bolts, clevis pins, etc. 370,581; Aug. 29; Serial No. 418,450; published June 13, 1939. Class 13.

Pepperell Manufacturing Company, Boston, Mass. Blankets, blanket cloth, and piece goods. 370,608; Aug. 29; Serial No. 418,789; published June 20, 1939. Class 42.

Perry, Adelaide R., assignor to S. A. Perry, Buffalo, N. Y. Remedy for neuralgia, sick and bilious headache. 129,047; renewed Jan. 20, 1940.

Persse, Joseph M., doing business as Atlantic Laboratories, Savannah, Ga. Medicinal preparation. 370,482; Aug. 29; Serial No. 416,615; published June 13, 1939. Class 6.

Pfeiffer, S., Mfg. Co., St. Louis, Mo. Medicinal tonic and appetite stimulant. 370,598; Aug. 29; Serial No. 418,649; published June 6, 1939. Class 6.

Poliwoda & Anasky, Calverton, L. I., N. Y. Potatoes. 370,460; Aug. 29; Serial No. 415,795; published June 20, 1939. Class 46.

Prime Needleart Co. (See Schwechter, Mandel.)

Princeton Worsted Mills, Inc., Trenton, N. J. Worsted and woolen piece goods. 370,504; Aug. 29; Serial No. 417,299; published June 20, 1939. Class 42.

Puritan Piece Dye Works, Paterson, N. J. Piece goods. 370,437; Aug. 29; Serial No. 413,735; published June 20, 1939. Class 42.

Pyle Manufacturing Company, assignor to Gulberson Oil Heater Company, Dallas, Tex. Oil and gas burners. 370,644; Aug. 29. Class 34.

Raspler & Zankel, New York, N. Y. Neckties, pajamas, lounging robes, etc. 370,648; Aug. 29. Class 39.

Raybestos-Manhattan, Inc., Passaic, N. J. Clutch facings. 370,632; Aug. 29; Serial No. 419,124; published June 20, 1939. Class 35.

Reed, Angie M., Miami, Fla. Hair tonic. 370,403; Aug. 29; Serial No. 405,566; published June 20, 1939. Class 6.

Refined Products Corporation, Newark, N. J. Chemical for treating textile materials. 370,578; Aug. 29; Serial No. 418,420; published May 30, 1939. Class 6.

Reflectors, Inc., Philadelphia, Pa. Lighting reflectors. 370,537; Aug. 29; Serial No. 417,851; published June 20, 1939. Class 34.

Rekonso Products Incorporated, Miami, Fla. Antacid tablets. 370,486; Aug. 29; Serial No. 416,745; published June 6, 1939. Class 6.

Republic Steel Corporation, Cleveland, Ohio. Nails. 370,660; Aug. 29. Class 13.

Rhoads, James F., doing business as National Sanitary Health Service, Media, Pa. Plumbing units, bathroom fixtures and equipment, etc. 370,465; Aug. 29; Serial No. 416,016; published June 6, 1939. Class 13.

Roche-Organon, Inc., Nutley, N. J. Medicinal preparation. 370,472; Aug. 29; Serial No. 416,518; published Apr. 11, 1939. Class 6.

Roessner, William L., Chicago, Ill. Motion picture screens. 370,599; Aug. 29; Serial No. 418,692; published June 20, 1939. Class 26.

Ross-Perry Corp., New York, N. Y. Cough drops. 370,515; Aug. 29; Serial No. 417,474; published June 6, 1939. Class 6.

Santiago Orange Growers Association, Orange, Calif. Fresh oranges. 128,263; renewed Dec. 30, 1939.

Santiago Orange Growers Association, Orange, Calif. Fresh oranges. 128,842; renewed Jan. 13, 1940.

Schenley Import Corporation, New York, N. Y. Wines. 370,561–2; Aug. 29; Serial Nos. 418,270–1; published June 13, 1939. Class 47.

Schering Corporation, Bloomfield, N. J. Hormone preparation. 370,626; Aug. 29; Serial No. 419,044; published June 20, 1939. Class 6.

Schindel, Edmund, doing business as Schindels Laboratories, Aurora, Ill. Medicinal preparation. 370,382; Aug. 29; Serial No. 388,557; published Aug. 2, 1938. Class 6.

Schwartzenfeld, Edward, doing business as Pedmor Products Co., Cleveland, Ohio. Foot massage creams. 370,396; Aug. 29; Serial No. 404,492; published June 6, 1939. Class 6.

Schwechter, Mandel, doing business as Prime Needleart Co., Chicago, Ill. Sheets, pillow cases, doilies, etc. 370,421; Aug. 29; Serial No. 412,231; published June 20, 1939. Class 42.

Scott Products Co., doing business as America-Chiffon Co., Chicago, Ill. Ladies' hosiery. 370,663; Aug. 29. Class 39.

Sears, Roebuck and Co., Chicago, Ill. Mechanics' tools. 370,383; Aug. 29; Serial No. 389,266; published June 20, 1939. Class 23.

Sensenbrenner, A., Sons, Los Angeles, Calif. Cigars. 370,621; Aug. 29; Serial No. 418,951; published June 20, 1939. Class 17.

Serr Manufacturing Company, New York, N. Y. Steam egg poachers. 370,548; Aug. 29; Serial No. 418,016; published June 13, 1939. Class 13.

Shapira Chemical Company. (See Palmieri, Thomas.)

Sherwin-Williams Co., The, Cleveland, Ohio. Paints, paint enamels, lacquers, etc. 370,582; Aug. 29; Serial No. 418,452; published June 20, 1939. Class 16.

Sherwin-Williams Co., The, Cleveland, Ohio. Insecticides and fungicides. 370,585; Aug. 29; Serial No. 418,497; published May 30, 1939. Class 6.

Shoot-A-Lite Corporation, New York, N. Y. Lighters. 370,565; Aug. 29; Serial No. 418,314; published June 20, 1939. Class 34.

Shotwell Company, The, to Oscar Epstein, doing business as Universal Shoe Dressing Co., Los Angeles, Calif., successor. Liquid cleaner for kid gloves and shoes. 127,505; renewed Nov. 11, 1939.

Sierra Rubber Company, Los Angeles, Calif. Plumbing rubber specialties. 370,566; Aug. 29; Serial No. 418,315; published June 13, 1939. Class 13.

Simmons Hardware Company, St. Louis, Mo. Lawnmowers. 126,781; renewed Sept. 30, 1939.

Simon, Eugene, doing business as E. Simon Company, Tampa, Fla. Preparation for restoring color to gray and faded hair. 370,469; Aug. 29; Serial No. 416,271; published June 6, 1939. Class 6.

Simons, Sidney G., doing business as The Carr Chemical Co., Columbus, Ga. Insecticide and vermin destroyer. 370,568; Aug. 29; Serial No. 418,369; published May 30, 1939. Class 6.

Smally Products, Inc. (See Climax Reflector, Inc., assignor.)

Smith, Auburn, Columbus, Ohio. Gas burners. 370,652; Aug. 29. Class 34.

Smith, Lee S., & Son Manufacturing Company, Pittsburgh, Pa. Dental enamel. 126,349; renewed Aug. 19, 1939.

Snell-Jones Tack Corp., Brockton, Mass. Tacks, nails, glaziers' points, etc. 370,500; Aug. 29; Serial No. 417,104; published June 13, 1939. Class 13.

Societe Anonyme Parfumerie F. Millot, Paris, France. Perfumes, toilet waters, rouge, etc. 370,595; Aug. 29; Serial No. 418,603; published May 30, 1939. Class 6.

Solvay Process Company, The, New York, N. Y. Insecticides and fungicides. 370,452–3; Aug. 29; Serial Nos. 415,304–5; published June 6, 1939. Class 6.

Shilton, Inc., New York, N. Y. Astringents, astringent cerates, bleach creams, etc. 370,631; Aug. 29; Serial No. 419,099; published June 20, 1939. Class 6.

Standard Antiseptics Inc., New York, N. Y. Tooth powder, mouth wash, skin lotion, etc. 370,483; Aug. 29; Serial No. 416,706; published June 6, 1939. Class 6.

Standard Sanitary Mfg. Co., Pittsburgh, Pa., and San Francisco, Oakland, and Sacramento, Calif. Enameled iron plumbing fixtures. 370,430; Aug. 29; Serial No. 413,324; published June 13, 1939. Class 13.

Stearns, Frederick, & Company, Detroit, Mich. Preparation used in the treatment of dysmenorrhea. 370,622; Aug. 29; Serial No. 418,954; published June 13, 1939. Class 6.

Stearns, Frederick, & Company, Detroit, Mich. Preparation used in the treatment of certain genito-urinary conditions. 370,635; Aug. 29; Serial No. 419,199; published June 20, 1939. Class 6.

Stetson China Company, Inc., Chicago, Ill. China tableware. 370,398; Aug. 29; Serial No. 404,920; published May 30, 1939. Class 30.

Strathmore Paper Company, West Springfield, Mass. Writing and printing paper. 370,454; Aug. 29; Serial No. 415,319; published June 20, 1939. Class 37.

Sturtevant, B. F., Company, Hyde Park, Boston, Mass. Propeller fans. 370,526; Aug. 29; Serial No. 417,629; published May 30, 1939. Class 34.

Superior Felt & Bedding Company, Chicago, Ill. Mattresses. 370,614; Aug. 29; Serial No. 418,901; published June 20, 1939. Class 32.

Superior Tube Company, Philadelphia and Norristown, Pa. Metal tubing. 370,524; Aug. 29; Serial No. 417,594; published June 13, 1939. Class 13.

Supplemental Nutritions Company, Los Angeles, Calif. Therapeutic vitamin and mineral dietary supplement. 370,461; Aug. 29; Serial No. 415,806; published June 6, 1939. Class 6.

Supreme Sanctorum Ancient Mystic Order of Samaritans, Inc., Niagara Falls, N. Y. Rituals, transfer certificates, withdrawal cards, etc. 370,390; Aug. 29; Serial No. 402,656; published June 20, 1939. Class 37.

Surgical Supply Corporation, New York, N. Y. Forceps, scissors, retractors, etc. 370,435; Aug. 29; Serial No. 413,469; published June 20, 1939. Class 44.

Swift and Company, Chicago, Ill. Poultry, sausage, beef, etc. 370,583; Aug. 29; Serial No. 418,454; published June 20, 1939. Class 46.

Sylvania Industrial Corporation, New York, N. Y. Cellulose ethers. 370,629; Aug. 29; Serial No. 419,092; published June 13, 1939. Class 6.

Szarlip, Lucia M., Toledo, Ohio. Cementitious composition. 370,609; Aug. 29; Serial No. 418,794; published June 20, 1939. Class 44.

Table Rock Laboratories, Inc., Greenville, S. C. Preparation for the treatment of essential hyypertension, arteriosclerosis, etc. 370,414; Aug. 29; Serial No. 411,060; published June 6, 1939. Class 6.

Tappan Stove Company, The, Mansfield, Ohio. Attachable indicating charts for use with cooking apparatus. 370,479; Aug. 29; Serial No. 416,587; published June 20, 1939. Class 34.

Texas Star Flour Mills, Galveston, Tex. Wheat flour, all wheat flour, cake flour, etc. 370,458; Aug. 29; Serial No. 415,674; published June 20, 1939. Class 46.

Thompson-Hayward Chemical Company, Kansas City, Mo. Chemical coating for barrels, kegs, drums, etc. 370,466; Aug. 29; Serial No. 416,168; published May 30, 1939. Class 6.

Trico Products Corporation, Buffalo, N. Y. Glass cleaner. 370,432; Aug. 29; Serial No. 413,424; published Jan. 24, 1939. Class 4.

Trico Products Corporation, Buffalo, N. Y. Glass cleaner. 370,433; Aug. 29; Serial No. 413,425; published Feb. 14, 1939. Class 4.

Tyrrell & Garth, Inc., also doing business as the Palm Valley Canning Company, Houston, Tex. Canned fruits, vegetables, fruit juices, etc. 370,569; Aug. 29; Serial No. 418,375; published June 20, 1939. Class 46.

Uddo, F., & Sons, New Orleans, La. Bleach, disinfectant, deodorant, and cleanser. 370,563; Aug. 29; Serial No. 418,276; published June 6, 1939. Class 6.

Ulrici Medicine Company, Inc., The, New York, N. Y. Preparation useful as a tonic and reconstituent. 370,535; Aug. 29; Serial No. 417,828; published June 13, 1939. Class 6.

Ulrici Medicine Company, Inc., The, New York, N. Y. Tonics and reconstituents. 370,579; Aug. 29; Serial No. 418,424; published June 6, 1939. Class 6.

Union Fork & Hoe Company, The, Columbus, Ohio. Hand operated tools. 370,606; Aug. 29; Serial No. 418,755; published June 20, 1939. Class 23.

Union Paper and Twine Company, The, Cleveland, Ohio. Toilet paper and sanitary paper towels. 370,446; Aug. 29; Serial No. 415,060; published June 20, 1939. Class 37.

Union Sales Corporation, Columbus, Ind. Confectioners corn syrup. 370,487; Aug. 29; Serial No. 416,751; published June 20, 1939. Class 46.

United Cigar-Whelan Stores Corporation, New York, N. Y. Whiskey and gin. 370,424; Aug. 29; Serial No. 412,566; published Feb. 7, 1939. Class 49.

U. S. Expansion Bolt Co., York, Pa. Hand saws. 370,600–1; Aug. 29; Serial Nos. 418,694–5; published June 20, 1939. Class 23.

U. S. Expansion Bolt Co., York, Pa. Hand saws. 370,602; Aug. 29; Serial No. 418,697; published June 20, 1939. Class 23.

U. S. Standard Products Company, Woodworth, Wis. Bacterial vaccine. 370,392; Aug. 29; Serial No. 403,840; published June 14, 1939. Class 6.

U. S. Standard Products Company, Woodworth, Wis. Bacterial vaccine. 370,393; Aug. 29; Serial No. 403,842; published June 14, 1939. Class 6.

Universal Button Fastening & Button Company, Detroit, Mich. Combination toasters and grillers. 370,401; Aug. 29; Serial No. 405,376; published June 13, 1939. Class 13.

Universal Dental Company, Philadelphia, Pa. Artificial teeth. 370,630; Aug. 29; Serial No. 419,093; published June 20, 1939. Class 44.

Universal Match Corporation, St. Louis, Mo. Wrappers for cigarette packages. 370,627; Aug. 29; Serial No. 419,051; published June 20, 1939. Class 37.

Universal Shoe Dressing Co. (See Shotwell Company, The.)

Utility Dress Co., New York, N. Y. Piece goods. 370,538 Aug. 29; Serial No. 417,855; published June 20, 1939 Class 42.

Vac-U-Matic Products Co. (See Apffel, James A.)

Valdor, Inc., assignor to Valdor, Inc., New York, N. Y. Lipsticks. 370,442; Aug. 29; Serial No. 414,583; published June 6, 1939. Class 6.

Valley Sulphur Company, Lodi, Calif. Dusting, burning, and soil sulphur. 370,511; Aug. 29; Serial No. 417,424; published June 6, 1939. Class 6.

Van Camp Sea Food Co. Inc. (See Nielsen & Kittle Canning Co. Ltd.)

Vari-Color Machine Co., St. Louis, Mo. Etched engraving plates. 370,384; Aug. 29; Serial No. 389,398; published June 20, 1939. Class 50.

Victor Chemical Co. (See Zahlout, Victor.)

Vitaguard Corporation, Sellersville, Pa. Screen and multiple baffle window ventilators. 370,505; Aug. 29; Serial No. 417,315; published May 30, 1939. Class 34.

Wagner, Stephen M., Incorporated, St. Louis, Mo. Sights. 370,490; Aug. 29; Serial No. 416,817; published June 20, 1939. Class 26.

Walters' "Palm" Toffee Limited, doing business as Palm Works, London, England. Toffee and sugar confectionery. 370,496; Aug. 29; Serial No. 416,977; published June 20, 1939. Class 46.

Waples Platter Co., Fort Worth, Tex. Coffee. 370,412–13; Aug. 29; Serial Nos. 410,278–9; published June 20, 1939. Class 46.

Webb Laboratories, Schenectady, N. Y. Vitamin preparations. 370,542; Aug. 29; Serial No. 417,947; published June 13, 1939. Class 6.

Weisler, Walter E., doing business as The Maysett Co., Massillon, Ohio. Fried flour mixture. 370,488; Aug. 29; Serial No. 416,754; published June 20, 1939. Class 46.

Wentz, M. C., Los Angeles, Calif. Ceramic vases, bowls, tea pots, etc. 370,473; Aug. 29; Serial No. 416,526; published May 30, 1939. Class 30.

Western College Bookstore Association, Palo Alto, Calif. Loose leaf zinders and fillers, notebooks, etc. 370,422; Aug. 29; Serial No. 412,400; published June 20, 1939. Class 37.

Western Foundry Company, Portland, Oreg. Sawdust burners and hot water heaters. 370,448; Aug. 29; Serial No. 415,154; published May 30, 1939. Class 34.

Wilmac Laboratories, The. (See McCarthy, Justin J.)

Wilson-Jones Company, Chicago, Ill. Loose leaf binders. 370,633; Aug. 29; Serial No. 419,133; published June 20, 1939. Class 37.

Windschauer, Max, doing business as Kleenco Boiler Products Company, New York, N. Y. Chemical for cleaning boilers. 370,551; Aug. 29; Serial No. 418,082; published June 13, 1939. Class 6.

Windsor Products Co. Inc., Bridgeton, N. J. Tomato catsup. 370,559; Aug. 29; Serial No. 418,223; published June 20, 1939. Class 46.

Winthrop Chemical Company, Inc., New York, N. Y. Vitamin A preparation. 370,544; Aug. 29; Serial No. 417,991; published June 13, 1939. Class 6.

Wyeth, John, & Brother, Incorporated, Philadelphia, Pa. Medicinal compounds. 370,518; Aug. 29; Serial No. 417,515; published June 13, 1939. Class 6.

Xandra Limited, New York, N. Y. Liquid ammonia bath preparation. 370,495; Aug. 29; Serial No. 416,929; published June 6, 1939. Class 6.

Yardley of London, Inc., Union City, N. J. Astringent, astringent cerate, bleach cream, etc. 370,545; Aug. 29; Serial No. 417,992; published June 6, 1939. Class 6.

Zahlout, Victor, doing business as Victor Chemical Co., Oakland, Calif. Analgesics, anaphrodisiacs, anesthetics, etc. 370,387; Aug. 29; Serial No. 392,064; published June 6, 1939. Class 6.

Zimray, Inc., New York, N. Y. Ladies' and misses' sport and travel suits. 370,669; Aug. 29. Class 39.

LIST OF REGISTRANTS OF LABELS

A-Treat Bottling Company, Allentown, Pa. Dutch Treat. For an Orange Flavored Carbonated Beverage. 53,428; Aug. 29.

Armour and Company, Chicago, Ill. Motorist Picnic Kit. For a Picnic Assortment Consisting of Deviled Tongue, Deviled Ham, a Mock Chicken Spread, a Meat Food Product Used as a Buffet Spread, a Liver Spread, an All-Purpose Meat, Frankfurters and a Cream Cheese Spread with Pimiento. 53,429; Aug. 29.

Bird & Son, inc., East Walpole, Mass. Bellaire. For Cartons. 53,430; Aug. 29.

Bird & Son, inc., East Walpole, Mass. The Clinton Shoe. For Cartons. 53,431; Aug. 29.

Burroughs Wellcome & Co. (U. S. A.) Inc., New York, N. Y. Dexin. For Dietary Supplement for Children and Adults. 53,432; Aug. 29.

Caley, Wendell J., doing business as W. J. Caley & Co., Philadelphia, Pa. Botanee Box. For Material for Making Artificial Flowers. 53,433; Aug. 29.

Clayton, A. C., Printing Company, St. Louis, Mo. Joseph Salon Shoes. For Shoes. 53,434; Aug. 29.

Clayton, A. C., Printing Company, St. Louis, Mo. Fine Footwear. For Footwear. 53,435; Aug. 29.

Clayton, A. C., Printing Company, St. Louis, Mo. Bullock's Salon Footwear. For Footwear. 53,436; Aug. 29.

Cowan, Harry B., Los Angeles, Calif. Fog-Pruf Glass Cleaner. For a Glass Cleaner. 53,437; Aug. 29.

Crown-Zellerbach Corporation, doing business as Crown Willamette Paper Company, San Francisco, Calif. Crown Copperized Fruit Wrap. For Fruit Wraps. 53,438; Aug. 29.

Dolphin, Byron J., Seattle, Wash. Dolphin's Natural Barks, The Wonderful Drops for the Eye. For Drops for the Eye. 53,439; Aug. 29.

Draper, Weldon, doing business as The Tricosal Company, Los Angeles, Calif. Stix-Quik. For Cement Patch Kits. 53,440; Aug. 29.

Ehlers, Albert, Inc., Brooklyn, N. Y. Ehlers White Giant. For Rice. 53,441; Aug. 29.

English, John, doing business as United Wholesale Grocery, Schenectady, N. Y. Lady Betty. For Golden Bantam Succotash. 53,442; Aug. 29.

Gandrud, Ebenhard S., doing business as E. S. Gandrud Co., Owatonna, Minn. Gandy Dough Master. For Folding Frame Baker's Canvasses and Rolling-pin Covers. 53,443; Aug. 29.

Garcia Wine Corporation, Long Island City, N. Y. Treasure. For California Port Wine. 53,444; Aug. 29.

Glemby Company, Inc., The, New York, N. Y. Lovelee Hair Snood. For Hair Nets. 53,445; Aug. 29.

Krim Beverage Company, Lebanon, Pa. Ju-C-Orange. For a Carbonated Beverage. 53,446; Aug. 29.

Locke, Frank C., Oberlin, Ohio. Frizzed Fresh. For Fruits and Vegetables. 53,447; Aug. 29.

Long, W. E., Co., The, Chicago, Ill. Schmidt's Blue Ribbon Pantry Package Sliced White Bread Open in Middle—Like a Book! For Bread. 53,448; Aug. 29.

Mars Incorporated, Chicago, Ill. The 3 Musketeers. For Candy. 53,449; Aug. 29.

Marta Cigar Company, New York, N. Y. Briar Bowl. For Tobacco. 53,450; Aug. 29.

Page & Shaw Inc., Cambridge, Mass. Orchids. For Candy. 53,451; Aug. 29.

Paris Neckwear Co. Inc., The, New York, N. Y. Pueblo. For Men's Ties. 53,452; Aug. 29.

Pharma-Craft Corporation, The, Louisville, Ky. Fresh No. One Deodorant Cream. For Deodorant Cream. 53,453; Aug. 29.

Pharma-Craft Corporation, The, Louisville, Ky. Fresh No. One. For Deodorant Cream. 53,454; Aug. 29.

Tricosal Company, The. (See Draper, Weldon.)

Trouche, Paul E., Charleston, S. C. Center Spot. For Writing Tablets. 53,455; Aug. 29.

United Wholesale Grocery. (See English, John.)

Universal Tool-Drive Tool Company, Los Angeles, Calif. U. T.-D. High Power Drain Pipe Opener. For a Drain Pipe Cleaner or Opener. 53,456; Aug. 29.

Waxide Paper Company, Kansas City, Mo. Sliced Wheat Bread. For Wheat Bread. 53,457; Aug. 29.

Waxide Paper Company, Kansas City, Mo. Royal Bread Sliced. For Bread. 53,458; Aug. 29.

Wayne Paper Box & Printing Corp., Fort Wayne, Ind. Holland Linen. For Stationery, Writing Paper, and Writing Tablets. 53,459; Aug. 29.

Wayne Paper Box & Printing Corp., Fort Wayne, Ind. Royal Scottie. For Stationery, Writing Paper, and Writing Tablets. 53,460; Aug. 29.

LIST OF REGISTRANTS OF PRINTS

Berg, Christy L., St. Louis, Mo. Berg Method of Entombment. For Burial Vaults. 17,542; Aug. 29.

Brach, E. J., & Sons, Chicago, Ill. Candy is Delicious Food. For Candy. 17,543; Aug. 29.

Hoppe, Frank A., Inc., Philadelphia, Pa. Limpie Sus Armas Regularmente. For Gun Cleaning Products. 17,544; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. Drink to Me Only With. For Lager Beer. 17,545; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. A Hit! For Lager Beer. 17,546; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. A True Lager Brewed for You. For Lager Beer. 17,547; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. Popular Since 1876. For Lager Beer. 17,548; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. Seldom Equalled. Never Excelled. For Lager Beer. 17,549; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. In the Good Old Summertime. For Lager Beer. 17,550; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. Long Long Ago. Long Ago. For Lager Beer. 17,551; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. Hyde Park 5% True Lager Beer. For Lager Beer. 17,552; Aug. 29.

Hyde Park Breweries Association, Inc., St. Louis, Mo. Hyde Park True Lager Beer. For Lager Beer. 17,553; Aug. 29.

Lowe, Joe, Corporation, New York, N. Y. We Sell Frozen Confections on a Stick. For Frozen Confections on a Stick. 17,554; Aug. 29.

Parke, Davis & Company, Detroit, Mich. Parke-Davis Medicated Throat Discs. For Medicated Throat Discs. 17,555; Aug. 29.

Parke, Davis & Company, Detroit, Mich. Parke-Davis Cod Liver Oil. For Cod Liver Oil. 17,556; Aug. 29.

Warshauer, Ben, Stockton, Calif. The World's Softest Shoe. For Shoes. 17,557; Aug. 29.

CLASSIFIED LIST OF TRADE-MARKS REGISTERED

CLASS 1

Coke. Hickman, Williams & Co. 370,517; Aug. 29; Serial No. 417,492; published June 20, 1939.

Leather. Mitchell & Peirson Inc. 370,556; Aug. 29; Serial No. 418,113; published June 20, 1939.

CLASS 4

Cleaner for kid gloves and shoes, Liquid. Shotwell Company. 127,505; renewed Nov. 11, 1939.

Cleaner, Glass. Trico Products Corporation. 370,432; Aug. 29; Serial No. 413,424; published Jan. 24, 1939.

Cleaner, Glass. Trico Products Corporation. 370,433; Aug. 29; Serial No. 413,425; published Feb. 14, 1939.

Cleaning preparation. Hercules Powder Company. 370,425; Aug. 29; Serial No. 412,602; published June 20, 1939.

Soap. Lever Brothers Company. 370,584; Aug. 29; Serial No. 418,485; published June 20, 1939.

Solvents, Dry cleaning. Dow Chemical Company. 370,415–16; Aug. 29; Serial Nos. 411,826–7; published June 20, 1939.

CLASS 6

Adrenalin extract. Dr. Georg Henning Chem. Pharm. Werk G. m. b. H. 370,593; Aug. 29; Serial No. 418,570; published June 6, 1939.

Ammonia bath preparation, Liquid. Xandra Limited. 370,495; Aug. 29; Serial No. 416,929; published June 6, 1939.

Analgesics, anaphrodisiacs, anesthetics, etc. V. Zahlout. 370,387; Aug. 29; Serial No. 392,064; published June 6, 1939.

Anesthetic, Local. F. P. Caso. 370,444; Aug. 29; Serial No. 415,024; published June 6, 1939.

Antacid. Casco Company. 370,572; Aug. 29; Serial No. 418,398; published May 30, 1939.

Antacid tablets. Rekonso Products Incorporated. 370,486; Aug. 29; Serial No. 416,745; published June 6, 1939.

Antiseptic and germicide. R. T. French Company. 370,520; Aug. 29; Serial No. 417,569; published June 6, 1939.

Antiseptic and germicide. R. T. French Company. 370,521; Aug. 29; Serial No. 417,571; published June 6, 1939.

Antiseptic ear drops. Doho Chemical Corporation. 370,607; Aug. 29; Serial No. 418,771; published June 6, 1939.

Aromatic substances. Monsanto Chemical Company. 370,550; Aug. 29; Serial No. 418,051; published June 13, 1939.

Arsenic, White. American Metal Company. 128,602; renewed Jan. 13, 1940.

Astringent, astringent cerate, bleach cream, etc. Yardley of London, Inc. 370,545; Aug. 29; Serial No. 417,992; published June 6, 1939.

Astringents, astringent cerates, beauty creams, etc. Maison Joubert, Inc. 370,502; Aug. 29; Serial No. 417,177; published June 6, 1939.

Astringents, astringent cerates, bleach creams, etc. Shulton, Inc. 370,631; Aug. 29; Serial No. 419,099; published June 20, 1939.

Bleach, disinfectant, deodorant, and cleanser. F. Uddo & Sons. 370,563; Aug. 29; Serial No. 418,276; published June 6, 1939.

Chemical coating for barrels, kegs, drums, etc. Thomas-Hayward Chemical Company. 370,466; Aug. 29; Serial No. 416,168; published May 30, 1939.

Chemical compound. American Cyanimid & Chemical Corporation. 370,509; Aug. 29; Serial No. 417,394; published June 6, 1939.

Chemical compound. J. J. McCarthy. 370,510; Aug. 29; Serial No. 417,406; published June 6, 1939.

Chemical for cleaning boilers. M. Windschauer. 370,551; Aug. 29; Serial No. 418,082; published June 13, 1939.

Chemical for treating textile materials. Refined Products Corporation. 370,578; Aug. 29; Serial No. 418,420; published May 30, 1939.

Chemical preparations for finishing, sizing, etc., fabrics. Aqua-Sec. Corp. 370,499; Aug. 29; Serial No. 417,047; published June 6, 1939.

Chemicals for treating steel surfaces. Parker Rust Proof Company. 370,624; Aug. 29; Serial No. 418,980; published June 13, 1939.

Containers made of gelatine or other suitable materials, Individual. Hoffmann-La Roche, Inc. 370,611; Aug. 29; Serial No. 418,834; published June 6, 1939.

Cough drops. Ross-Perry Corp. 370,515; Aug. 29; Serial No. 417,474; published June 6, 1939.

Cough-drops, Candy. W. Gates. 126,160; renewed July 29, 1939.

Cream for burns and sprains. L. Manzoni. 370,591; Aug. 29; Serial No. 418,525; published May 30, 1939.

Creams, Foot massage. E. Schwartzenfeld. 370,396; Aug. 29; Serial No. 404,492; published June 6, 1939.

Creams, shampoos, deodorants, etc., Toilet. J. B. Knight, Sr. 370,438; Aug. 29; Serial No. 413,967; published June 13, 1939.

Creams, Toilet. Lanman & Kemp-Barclay & Co. Incorporated. 370,423; Aug. 29; Serial No. 412,414; published May 23, 1939.

Dentifrice. American Ferment Co. 370,615; Aug. 29; Serial No. 418,911; published June 20, 1939.

Dentifrice and mouth wash. R. Levy. 370,441; Aug. 29; Serial No. 414,421; published June 6, 1939.

Deodorant, Mouth. E. I. Branower. 370,449; Aug. 29; Serial No. 415,156; published June 6, 1939.

Disinfectant. J. W. Bullen. 128,947–8; renewed Jan. 20, 1940.

Ear ache drops. Nyal Company. 370,641; Aug. 29; Serial No. 419,437; published June 20, 1939.

Ephedrine nasal jelly. Nyal Company. 370,642; Aug. 29; Serial No. 419,438; published June 20, 1939.

Essential oils. Etablissements Antoine Chiris, Compagnie des Produits Aromatiques Chimiques et Medicinaux, Societe Anonyme. 370,426; Aug. 29; Serial No. 412,760; published June 6, 1939.

Ethers, Cellulose. Sylvania Industrial Corporation. 370,629; Aug. 29; Serial No. 419,092; published June 13, 1939.

Hair coloring and shampoo treatment. Amirol-Admiracion Sales Corporation. 370,506; Aug. 29; Serial No. 417,355; published June 6, 1939.

Hair tonic. A. M. Reed. 370,403; Aug. 29; Serial No. 405,566; published June 20, 1939.

Hair tonic, shampoo, bay rum, etc. R. Amendola. 370,394; Aug. 29; Serial No. 403,890; published June 13, 1939.

Hormone preparation. Schering Corporation. 370,626; Aug. 29; Serial No. 419,044; published June 20, 1939.

Insecticide. Ferry-Morse Seed Company. 370,399; Aug. 29; Serial No. 405,353; published June 6, 1939.

Insecticide and parasite killer for dogs and no other animals. W. W. Hannan. 370,481; Aug. 29; Serial No. 416,607; published May 30, 1939.

Insecticide and vermin destroyer. S. G. Simons. 370,568; Aug. 29; Serial No. 418,369; published May 30, 1939.

Insecticides. General Chemical Company. 370,543; Aug. 29; Serial No. 417,963; published June 13, 1939.

Insecticides and fungicides. Sherwin-Williams Co. 370,585; Aug. 29; Serial No. 418,497; published May 30, 1939.

Insecticides and fungicides. Solvay Process Company. 370,452–3; Aug. 29; Serial Nos. 415,304–5; published June 6, 1939.

Laxative. Casco Company. 370,571; Aug. 29; Serial No. 418,397; published May 30, 1939.

Laxative tablets. F. A. Bockmann. 370,404; Aug. 29; Serial No. 406,080; published June 28, 1938.

Lipsticks. Valdor, Inc. 370,442; Aug. 29; Serial No. 414,583; published June 6, 1939.

Lotion, Skin. Kay Preparations Co. Inc. 370,434; Aug. 29; Serial No. 413,446; published June 6, 1939.

Lozenge for the throat. Nyal Company. 370,638; Aug. 29; Serial No. 419,434; published June 20, 1939.

Medicinal and pharmaceutical preparations. F. Marion. 370,429; Aug. 29; Serial No. 413,020; published June 13, 1939.

Medicinal and pharmaceutical preparations. F. Marion. 370,463; Aug. 29; Serial No. 415,951; published June 13, 1939.

Medicinal compound. Hille Laboratories. 127,416–17; renewed Nov. 11, 1939.

Medicinal compound. John Wyeth & Brother, Incorporated. 370,518; Aug. 29; Serial No. 417,515; published June 13, 1939.

Medicinal preparation. Bemax Laboratories, Inc. 370,516; Aug. 29; Serial No. 417,478; published June 13, 1939.
Medicinal preparation. Bio-Products Laboratory Co. 370,470; Aug. 29; Serial No. 416,282; published June 6, 1939.
Medicinal preparation. J. M. Persse. 370,482; Aug. 29; Serial No. 416,615; published June 13, 1939.
Medicinal preparation. Roche-Organon, Inc. 370,472; Aug. 29; Serial No. 416,518; published Apr. 11, 1939.
Medicinal preparation. E. Schindel. 370,382; Aug. 29; Serial No. 388,557; published Aug. 2, 1938.
Medicinal preparations used in bacterial infections. Merck & Co. Inc. 370,576; Aug. 29; Serial No. 418,414; published May 30, 1939.
Medicinal tablets. R. W. Johnson. 370,494; Aug. 29; Serial No. 416,900; published June 6, 1939.
Medicine, Patent. P. Kenda. 370,462; Aug. 29; Serial No. 415,950; published June 6, 1939.
Medicines. G. W. Fillauer. 126,276; renewed Aug. 19, 1939.
Mineral waters, Artificial. M. E. Lee. 370,411; Aug. 29; Serial No. 409,813; published June 6, 1939.
Ointment. B. J. Maurice. 370,625; Aug. 29; Serial No. 419,029; published June 13, 1939.
Ointment for skin diseases. Dalar Medical Laboratories, Inc. 370,528; Aug. 29; Serial No. 417,644; published June 13, 1939.
Paper-sizing composition. Victor G. Bloede Company Incorporated. 370,573; Aug. 29; Serial No. 418,404; published May 30, 1939.
Parasiticides. California Spray-Chemical Corporation. 370,636; Aug. 29; Serial No. 419,219; published June 20, 1939.
Perfume. Lyndon Products Corporation. 370,541; Aug. 29; Serial No. 417,882; published June 13, 1939.
Perfumes. R. H. Macy & Co. 370,445; Aug. 29; Serial No. 415,047; published June 13, 1939.
Perfumes, face powder, lipsticks, etc. Babs Creations, Inc. 370,552; Aug. 29; Serial No. 418,087; published June 13, 1939.
Perfumes, toilet water, cologne, etc. Les Parfums de Dana, Inc. 370,451; Aug. 29; Serial No. 415,295; published June 13, 1939.
Perfumes, toilet waters, rouge, etc. Societe Anonyme Parfumerie F. Millot. 370,595; Aug. 29; Serial No. 418,603; published May 30, 1939.
Pomade, Hair. L. Clayton. 370,493; Aug. 29; Serial No. 416,891; published June 6, 1939.
Powder, Foot. George Arlen Foot Health Center Ltd. 370,492; Aug. 29; Serial No. 416,886; published June 20, 1939.
Powder, mouth wash, skin lotion, etc., Tooth. Standard Antiseptics Inc. 370,483; Aug. 29; Serial No. 416,706; published June 6, 1939.
Powder, toilet water, perfume, etc. Coty, Inc. 370,420; Aug. 29; Serial No. 412,085; published June 20, 1939.
Powder, Tooth. T. Palmieri. 370,580; Aug. 29; Serial No. 418,449; published May 30, 1939.
Powders and lotions, impregnated pads, etc., Toilet. H. E. Jarvis & Co. 370,575; Aug. 29; Serial No. 418,410; published May 30, 1939.
Preparation containing the glycosides of digitalis. Dr. Georg Henning Chem. Pharm. Werk G. m. b. H. 370,592; Aug. 29; Serial No. 418,569; published June 6, 1939.
Preparation for restoring color to gray and faded hair. E. Simon. 370,469; Aug. 29; Serial No. 416,271; published June 6, 1939.
Preparation for softening furs and fur garments. Betzold Fur Cleaners. 370,395; Aug. 29; Serial No. 403,984; published May 3, 1938.
Preparation for the treatment of essential hypertension, arteriosclerosis, etc. Table Rock Laboratories, Inc. 370,414; Aug. 29; Serial No. 411,060; published June 6, 1939.
Preparation of vitamins and minerals. Dietetic Research Laboratories, Inc. 370,439; Aug. 29; Serial No. 414,289; published May 30, 1939.
Preparation used in digestive disturbances in human beings and animals. Ancienne Maison Louis Sanders, Société Anonyme. 370,406–7; Aug. 29; Serial Nos. 407,047–8; published June 13, 1939.
Preparation used in the treatment of certain genito-urinary conditions. Nyal Company. 370,618; Aug. 29; Serial No. 418,935; published June 20, 1939.
Preparation used in the treatment of certain genito-urinary conditions. Frederick Stearns & Company. 370,635; Aug. 29; Serial No. 419,199; published June 20, 1939.
Preparation used in the treatment of croup, sore throat, hoarseness, etc. J. M. Marmaduke. 370,534; Aug. 29; Serial No. 417,810; published June 6, 1939.
Preparation used in the treatment of dysentery and diarrhea. Nyal Company. 370,643; Aug. 29; Serial No. 419,439; published June 20, 1939.
Preparation used in the treatment of dysmenorrhea. Frederick Stearns & Company. 370,622; Aug. 29; Serial No. 418,954; published June 13, 1939.
Preparation used in the treatment of rheumatic fever. Nyal Company. 370,620; Aug. 29; Serial No. 418,937; published June 20, 1939.
Preparation useful as a tonic and reconstituent. Ulrici Medicine Company. 370,535; Aug. 29; Serial No. 417,828; published June 13, 1939.
Preparations for the hair and treatment of the scalp. Mme. M. Lewis. 370,522; Aug. 29; Serial No. 417,580; published June 6, 1939.
Reducing preparation. Miller Drug Co. 370,485; Aug. 29; Serial No. 416,736; published June 6, 1939.
Remedy for neuralgia, sick and bilious headache. A. R. Perry. 129,047; renewed Jan. 20, 1940.
Scalp tonic. F. Labagnara. 370,508; Aug. 29; Serial No. 417,377; published June 6, 1939.
Seed treating compounds, disinfectants, repellents, etc. Parsons Chemical Works. 370,564; Aug. 29; Serial No. 418,310; published June 13, 1939.
Solution of glandular products and mineral salts. La Forest Laboratories Company. 370,464; Aug. 29; Serial No. 415,989; published June 6, 1939.
Sulphur, Dusting, burning, and soil. Valley Sulphur Company. 370,511; Aug. 29; Serial No. 417,424; published June 6, 1939.
Syrup for asthma, bronchitis, coughs, etc. L. Manzoni. 370,590; Aug. 29; Serial No. 418,524; published May 30, 1939.
Tablets containing certain drugs. Haack Bros. Manufacturing Pharmacists. 370,471; Aug. 29; Serial No. 416,511; published June 6, 1939.
Therapeutic vitamin and mineral dietary supplement. Supplemental Nutritions Company. 370,461; Aug. 29; Serial No. 415,806; published June 6, 1939.
Tonic. Nyal Company. 370,639–40; Aug. 29; Serial Nos. 419,435–6; published June 20, 1939.
Tonic and appetite stimulant, Medicinal. S. Pfeiffer Mfg. Co. 370,598; Aug. 29; Serial No. 418,649; published June 6, 1939.
Tonic, General. Nyal Company. 370,619; Aug. 29; Serial No. 418,936; published June 20, 1939.
Tonics. Dr. Armin Bauer & Co. G. m. b. H. 370,456; Aug. 29; Serial No. 415,493; published June 6, 1939.
Tonics and reconstituents. Ulrici Medicine Company. 370,579; Aug. 29; Serial No. 418,424; published June 6, 1939.
Vaccine, Bacterial. U. S. Standard Products Company. 370,392; Aug. 29; Serial No. 403,840; published June 14, 1939.
Vaccine, Bacterial. U. S. Standard Products Company. 370,393; Aug. 29; Serial No. 403,842; published June 14, 1939.
Vitamin A preparation. Winthrop Chemical Company. 370,544; Aug. 29; Serial No. 417,991; published June 13, 1939.
Vitamin capsules. A. K. Mayer. 370,410; Aug. 29; Serial No. 409,479; published Nov. 29, 1938.
Vitamin preparations. Webb Laboratories, Inc. 370,542; Aug. 29; Serial No. 417,947; published June 13, 1939.
Waterproofing compound for textiles. Hart Products Corporation. 370,514; Aug. 29; Serial No. 417,457; published June 13, 1939.

CLASS 8

Pipes, Smoking. D. Dunwoodie. 370,623; Aug. 29; Serial No. 418,969; published June 20, 1939.
Pipes, Tobacco. Detroit Briar Pipe Company. 370,647; Aug. 29.

CLASS 13

Dishes and pans, Stainless steel and stainless iron table and kitchen. Oneida Ltd. 370,388; Aug. 29; Serial No. 395,080; published May 30, 1939.
Metal tubing. Superior Tube Company. 370,524; Aug. 29; Serial No. 417,594; published June 13, 1939.
Nails. Republic Steel Corporation. 370,660; Aug. 29.
Perfume and deodorant dispensing diffusers and disseminators for attachment to lamps. Lyndon Products Corporation. 370,540; Aug. 29; Serial No. 417,881; published June 20, 1939.
Pipes and tubes, Metal. National Supply Company. 370,577; Aug. 29; Serial No. 418,415; published June 20, 1939.
Plumbing fixtures, Enameled. Standard Sanitary Mfg. Co. 370,430; Aug. 29; Serial No. 413,324; published June 13, 1939.
Plumbing rubber specialties. Sierra Rubber Company. 370,566; Aug. 29; Serial No. 418,315; published June 13, 1939.
Plumbing units, bathroom fixtures and equipment, etc. J. F. Rhoads. 370,465; Aug. 29; Serial No. 416,016; published June 6, 1939.
Poachers, Steam egg. Serr Manufacturing Company. 370,548; Aug. 29; Serial No. 418,016; published June 13, 1939.
Receptacles for household use. McGraw Electric Company. 370,417; Aug. 29; Serial No. 411,878; published June 6, 1939.
Receptacles for household use. McGraw Electric Company. 370,418; Aug. 29; Serial No. 411,884; published June 6, 1939.
Shower curtains. Joseph A. Kaplan Inc. 370,665–6; Aug. 29.
Stays, bolts, clevis pins, etc., Solid metal. Pennsylvania Aircraft Syndicate, Ltd. 370,581; Aug. 29; Serial No. 418,450; published June 13, 1939.
Tacks, nails, glaziers' points, etc. Snell-Jones Tack Corp. 370,500; Aug. 29; Serial No. 417,104; published June 13, 1939.

Toasters and grillers, Combination. Universal Button Fastening & Button Company. 370,401; Aug. 29; Serial No. 415,376; published June 13, 1939.

CLASS 14

Metal, Cast-iron-welding. Central Steel & Wire Company. 126,138; renewed July 29, 1939.

CLASS 16

Lead and oxide of lead, White. National Lead Company. 370,605; Aug. 29; Serial No. 418,735; published June 20, 1939.
Paint enamels, Liquid. American Varnish Company. 370,603; Aug. 29; Serial No. 418,699; published June 20, 1939.
Paints, paint enamels, lacquers, etc. Sherwin-Williams Co. 370,582; Aug. 29; Serial No. 418,452; published June 20, 1939.
Varnish. S. C. Johnson & Son, Inc. 370,447; Aug. 29; Serial No. 415,121; published June 13, 1939.

CLASS 17

Cigarettes. Axton-Fisher Tobacco Company. 370,628; Aug. 29; Serial No. 419,065; published June 20, 1939.
Cigars. A. Sensenbrenner Sons. 370,621; Aug. 29; Serial No. 418,951; published June 20, 1939.

CLASS 19

Automobiles. Crossley Motors Limited. 370,664; Aug. 29.
Brake control, Accelerator actuated. J. A. Apffel. 370,457; Aug. 29; Serial No. 415,623; published June 13, 1939.
Sailboats. P. M. Lowell. 370,431; Aug. 29; Serial No. 413,413; published June 6, 1939.
Steering stabilizers and parts thereof, Vehicle. Bendix Aviation Corporation. 370,658; Aug. 29.

CLASS 21

Electrical apparatus and machines and accessories. Black & Decker Manufacturing Company. 370,560; Aug. 29; Serial No. 418,234; published June 20, 1939.
Electrical connectors. Monowatt Electric Corporation. 370,536; Aug. 29; Serial No. 417,846; published June 20, 1939.
Lamps, Electric. Hygrade Sylvania Corporation. 370,385; Aug. 29; Serial No. 390,651; published June 20, 1939.
Lamps, electric light translating devices, Electric. Hygrade Sylvania Corporation. 370,386; Aug. 29; Serial No. 390,652; published June 20, 1939.
Motors, Ignition-batteries, accumulators, etc., Electric. Daimler-Benz Aktiengesellschaft. 370,391; Aug. 29; Serial No. 403,647; published June 20, 1939.
Switches and contactors, Electric. Electric Controller & Mfg. Co. 370,512; Aug. 29; Serial No. 417,446; published June 20, 1939.

CLASS 22

Toy paint sets, children's water colors, children's paint books, etc. S. H. Kress and Company. 370,646; Aug. 29.

CLASS 23

Core-drills. Ingersoll-Rand Company. 128,407; renewed Jan. 6, 1940.
Drills, dies, screw-thread-cutting tools, etc., and parts thereof. C. E. Johansson. 126,172; renewed July 29, 1939.
Engines, Internal combustion. Mack Manufacturing Corporation. 370,523; Aug. 29; Serial No. 417,582; published June 20, 1939.
Files. Murcott & Campbell, Inc. 370,667; Aug. 29.
Mowers, Lawn. Simmons Hardware Company. 126,781; renewed Sept. 30, 1939.
Plows, plowshares, and parts thereof. Oliver Farm Equipment Company. 370,525; Aug. 29; Serial No. 417,623; published June 20, 1939.
Punching machines, bending rolls, flanging clamps, etc. Cleveland Punch & Shear Works Co. 370,507; Aug. 29; Serial No. 417,359; published June 20, 1939.
Saws, Hand. U. S. Expansion Bolt Co. 370,600–1; Aug. 29; Serial Nos. 418,694–5; published June 20, 1939.
Saws, Hand. U. S. Expansion Bolt Co. 370,602; Aug. 29; Serial No. 418,697; published June 20, 1939.
Stencils, Painters'. Bro-Kade Wall Finish Co. 370,497; Aug. 29; Serial No. 416,982; published June 20, 1939.
Tie pullers, pin tools, plate clamp tools, etc., Spreader. Economy Forms Corporation. 370,498; Aug. 29; Serial No. 417,003; published June 20, 1939.
Tools, Hand operated. Union Fork & Hoe Company. 370,606; Aug. 29; Serial No. 418,755; published June 20, 1939.
Tools, Linoleum cutting. C. Howard Hunt Pen Co. 370,594; Aug. 29; Serial No. 418,577; published June 20, 1939.
Tools, Mechanic's. Sears, Roebuck and Co. 370,383; Aug. 29; Serial No. 389,266; published June 20, 1939.
Tools, Mechanics' hand. Bonney Forge & Tool Works. 370,527; Aug. 29; Serial No. 417,638; published June 20, 1939.
Web printing machines and accessories. Chambon Corporation. 370,596; Aug. 29; Serial No. 418,629; published June 20, 1939.

CLASS 26

Instruments for measuring radiant energy. Brown Instrument Company. 370,443; Aug. 29; Serial No. 414,724; published June 20, 1939.
Lenses and mountings therefor, Assembled. General Scientific Corporation. 370,513; Aug. 29; Serial No. 417,455; published June 20, 1939.
Patterns, Garment. National Pattern Co. 370,530–1; Aug. 29; Serial Nos. 417,770–1; published June 20, 1939.
Photographic apparatus and supplies. Keystone Mfg. Co. 370,612; Aug. 29; Serial No. 418,839; published June 20, 1939.
Screens, Motion picture. W. L. Roessner. 370,599; Aug. 29; Serial No. 418,692; published June 20, 1939.
Sights. Stephen M. Wagner, Incorporated. 370,490; Aug. 29; Serial No. 416,817; published June 20, 1939.
X-ray apparatus for industrial purposes. Adam Hilger Limited. 370,489; Aug. 29; Serial No. 416,767; published June 20, 1939.

CLASS 27

Watches and watch-movements. I. Ollendorff Company. 126,050; renewed July 22, 1939.

CLASS 29

Wiping cloths. Letellier-Phillips Paper Company. 370,397; Aug. 29; Serial No. 404,568; published Aug. 2, 1938.

CLASS 30

Plates, cups, saucers, etc. Oneida Ltd. 370,419; Aug. 29; Serial No. 412,057; published June 20, 1939.
Tableware, China. Stetson China Company. 370,398; Aug. 29; Serial No. 404,920; published May 30, 1939.
Vases, bowls, tea pots, etc., Ceramic. M. C. Wentz. 370,473; Aug. 29; Serial No. 416,526; published May 30, 1939.

CLASS 31

Condensers of refrigerating systems. General Motors Corporation. 370,389; Aug. 29; Serial No. 401,021; published June 20, 1939.

CLASS 32

Mattresses. Superior Felt & Bedding Company. 370,614; Aug. 29; Serial No. 418,901; published June 20, 1939.
Mirrors. Camden Furniture Company. 370,653; Aug. 29.
Pillows, Sleeping. La Flex Products. 370,616; Aug. 29; Serial No. 418,928; published June 20, 1939.
Spring units for use in seat cushions. Insulation Development Corporation. 370,637; Aug. 29; Serial No. 419,426; published June 20, 1939.

CLASS 33

Glass tableware and decorative glass. Cape Cod Art Glass Co. 370,440; Aug. 29; Serial No. 414,336; published June 6, 1939.

CLASS 34

Burners and hot water heaters, Sawdust. Western Foundry Company. 370,448; Aug. 29; Serial No. 415,154; published May 30, 1939.
Burners, Gas. A. Smith. 370,652; Aug. 29.
Burners, Oil and gas. Pyle Manufacturing Company. 370,644; Aug. 29.
Charts for use with cooking apparatus, Attachable indicating. Tappan Stove Company. 370,479; Aug. 29; Serial No. 416,587; published June 20, 1939.
Fans, Propeller. B. F. Sturtevant Company. 370,526; Aug. 29; Serial No. 417,629; published May 30, 1939.
Furnaces. Fitzgibbons Boiler Company. 370,670; Aug. 29.
Furnaces, with and without air conditioning equipment. Michigan Tank & Furnace Corporation. 370,519; Aug. 29; Serial No. 417,547; published May 30, 1939.
Lighters, Shoot-A-Lite Corporation. 370,565; Aug. 29; Serial No. 418,314; published June 20, 1939.
Lighters, Cigarette and cigar. J. Kohn. 370,546; Aug. 29; Serial No. 418,008; published June 20, 1939.
Reflectors and display lighting. Climax Reflector, Inc. 370,400; Aug. 29; Serial No. 405,371; published June 6, 1939.
Reflectors, Lighting. Reflectors, Inc. 370,537; Aug. 29; Serial No. 417,851; published June 20, 1939.
Registers, grilles, and damper control sets, etc. Air Control Products, Inc. 370,570; Aug. 29; Serial No. 418,396; published June 20, 1939.
Self-luminous devices. Luminous Processes, Inc. 370,450; Aug. 29; Serial No. 415,253; published Apr. 11, 1939.
Stokers, Hydraulic. Hydraulic Mfg. Company. 370,604; Aug. 29; Serial No. 418,715; published June 20, 1939.
Ventilators, Screen and multiple baffle window. Vita-guard Corporation. 370,505; Aug. 29; Serial No. 417,315; published May 30, 1939.

CLASS 35

Clutch facings. Raybestos-Manhattan, Inc. 370,632; Aug. 29; Serial No. 419,124; published June 20, 1939.

Tires and inner tubes therefor. Goodyear Tire & Rubber Company. 370,610; Aug. 29; Serial No. 418,828; published June 20, 1939.

CLASS 36

Musical instruments and accessories. R. Mück. 370,650; Aug. 29.
Reeds, Musical. Conrad & Company. 370,661; Aug. 29.

CLASS 37

Binders and fillers, notebooks, etc., Loose leaf. Western College Bookstore Association. 370,422; Aug. 29; Serial No. 412,400; published June 20, 1939.
Binders, Loose leaf. Wilson-Jones Company. 370,633; Aug. 29; Serial No. 419,133; published June 20, 1939.
Envelopes and writing paper. Gaw-O'Hara Envelope Co. 370,480; Aug. 29; Serial No. 416,604; published June 20, 1939.
Paper and sanitary paper towels, Toilet. Union Paper and Twine Company. 370,446; Aug. 29; Serial No. 415,060; published June 20, 1939.
Paper towels and toilet tissue. A. Krasne, Inc. 370,659; Aug. 29.
Paper, Writing and printing. Strathmore Paper Company. 370,454; Aug. 29; Serial No. 415,319; published June 20, 1939.
Rituals, transfer certificates, withdrawal cards, etc. Supreme Sanctorum Ancient Mystic Order of Samaritans, Inc. 370,390; Aug. 29; Serial No. 402,656; published June 20, 1939.
Wrappers for cigarette packages. Universal Match Corporation. 370,627; Aug. 29; Serial No. 419,051; published June 20, 1939.

CLASS 39

Apparel, Wearing. H. L. Newman. 370,455; Aug. 29; Serial No. 415,484; published June 6, 1939.
Blouses, dress shirts, sports shirts, etc. Bernstein & Sons Shirt Corporation. 370,645; Aug. 29.
Dresses. Gladdy-Colleen, Inc. 370,657; Aug. 29.
Hose, Men's. Moorhead Knitting Company. 370,654; Aug. 29.
Hosiery. Apex Hosiery Company. 129,118; renewed Jan. 27, 1940.
Hosiery, Ladies'. Scott Products Co. 370,663; Aug. 29.
Neckties, pajamas, lounging robes, etc. Raspler & Zankel. 370,648; Aug. 29.
Robes, Bath. Auerbach Bath Robe Co. 370,671; Aug. 29.
Shirts, pajamas, and shorts, Men's. Manhattan Shirt Company. 370,673; Aug. 29.
Shirts, pajamas, underwear, etc., Men's. Irvington Shirt Corporation. 370,672; Aug. 29.
Suits, Ladies' and misses' sport and travel. Zimray, Inc. 370,669; Aug. 29.
Sweaters, sweater coats, surcoats, etc. Binghamton Knitting Co. 370,668; Aug. 29.
Underwear and aprons, Ladies' and children's. Oshkosh Muslin Underwear Co. 126,052; renewed July 22, 1939.
Underwear and outerwear. Augusta Knitting Corporation. 370,662; Aug. 29.

CLASS 40

Fasteners, Snap. De Long Hook and Eye Company. 127,376; renewed Nov. 11, 1939.
Hooks and eyes, snap-fasteners, safety-pins, etc. De Long Hook and Eye Company. 127,375; renewed Nov. 11, 1939.
Shields, Dress. I. B. Kleinert Rubber Company. 370,649; Aug. 29.

CLASS 42

Blankets, blanket cloth, and piece goods. Pepperell Manufacturing Company. 370,608; Aug. 29; Serial No. 418,789; published June 20, 1939.
Cloth. Faith Mills, Inc. 370,491; Aug. 29; Serial No. 416,845; published June 20, 1939.
Fabrics and piece goods, and table and bed linen, Textile. Comptoir des Textiles Artificiels Société Anonyme. 370,459; Aug. 29; Serial No. 415,704; published June 20, 1939.
Fabrics, Textile. National Fabrics Corporation. 370,557; Aug. 29; Serial No. 418,162; published June 20, 1939.
Piece goods. Puritan Piece Dye Works. 370,437; Aug. 29; Serial No. 413,735; published June 20, 1939.
Piece goods. Utility Dress Co. 370,538; Aug. 29; Serial No. 417,855; published June 20, 1939.
Rayon and cotton dress goods and suitings. Dover Mill Company. 370,656; Aug. 29.
Sheets and pillow cases. Bell Textile Company. 370,468; Aug. 29; Serial No. 416,244; published June 20, 1939.
Sheets, pillow cases, doilies, etc. M. Schwechter. 370,421; Aug. 29; Serial No. 412,231; published June 20, 1939.
Silk piece goods. Empire Silk Company. 125,998; renewed July 22, 1939.
Towels. Boot Mills. 370,427; Aug. 29; Serial No. 412,850; published June 20, 1939.
Worsted and woolen piece goods. Princeton Worsted Mills, Inc. 370,504; Aug. 29; Serial No. 417,299; published June 20, 1939.

CLASS 44

Cementitious composition. L. M. Szarlip. 370,609; Aug. 29; Serial No. 418,794; published June 20, 1939.
Dental enamel. Lee S. Smith & Son Manufacturing Company. 126,349; renewed Aug. 19, 1939.
Forceps, scissors, retractors, etc. Surgical Supply Corporation. 370,435; Aug. 29; Serial No. 413,460; published June 20, 1939.
Teeth, Artificial. Universal Dental Company. 370,630; Aug. 29; Serial No. 419,093; published June 20, 1939.

CLASS 45

Beverages. John Morgan (a Corporation). 370,655; Aug. 29.
Beverages and syrups for the same, Orange. General Beverage Corp. 370,503; Aug. 29; Serial No. 417,278; published June 20, 1939.
Beverages, fruit juices, and fruit juice products, etc., Nonalcoholic. Bireley's Inc. 370,634; Aug. 29; Serial No. 419,174; published June 20, 1939.
Beverages, Nonalcoholic, maltless, noncereal. Min-Aqua Co. 370,549; Aug. 29; Serial No. 418,050; published June 20, 1939.

CLASS 46

Bacon, Breakfast. John Morrell & Co. 128,795; renewed Jan. 13, 1940.
Beef broth, chicken and noodles, pot roast beef, etc. L. B. Haley. 370,651; Aug. 29.
Berries, fruits and vegetables; canned berries, etc., Fresh frozen. Austin, Nichols & Co. 370,428; Aug. 29; Serial No. 412,935; published June 20, 1939.
Bread. Appeal Inc. 370,408; Aug. 29; Serial No. 407,710; published June 20, 1939.
Candies. Borden Company. 370,539; Aug. 29; Serial No. 417,867; published June 20, 1939.
Candy bars. Candy House. 370,532; Aug. 29; Serial No. 417,797; published June 20, 1939.
Candy bars. Euclid Candy Co. of California, Inc. 370,554; Aug. 29; Serial No. 418,096; published June 20, 1939.
Canned fruits and juices. Florida Fruit Canners, Inc. 370,558; Aug. 29; Serial No. 418,191; published June 20, 1939.
Canned fruits, vegetables, fish, etc. Homelike Canning & Packing Co. 370,567; Aug. 29; Serial No. 418,340; published June 20, 1939.
Canned fruits, vegetables, fruit juices, etc. Tyrrell & Garth, Inc. 370,569; Aug. 29; Serial No. 418,375; published June 20, 1939.
Canned luncheon meat. G. A. Hormel. 370,467; Aug. 29; Serial No. 416,188; published June 20, 1939.
Canned sardines. Nielsen & Kittle Canning Co. Ltd. 127,099; renewed Oct. 21, 1939.
Catsup, Tomato. Windsor Products Co. Inc. 370,559; Aug. 29; Serial No. 418,223; published June 20, 1939.
Cheese. Holland Food Corporation. 370,501; Aug. 29; Serial No. 417,172; published June 20, 1939.
Coffee. Waples Platter Co. 370,412–13; Aug. 29; Serial Nos. 410,278–9; published June 20, 1939.
Confection, Candy. National Candy Co. 370,547; Aug. 29; Serial No. 418,013; published June 20, 1939.
Crullers, doughnuts, and fried cakes. Dunk Donut Co. 370,553; Aug. 29; Serial No. 418,095; published June 20, 1939.
Flour, all wheat flour, cake flour, etc., Wheat. Texas Star Flour Mills. 370,458; Aug. 29; Serial No. 415,674; published June 20, 1938.
Flour mixture, Fried. W. E. Weisler. 370,488; Aug. 29; Serial No. 416,754; published June 20, 1939.
Flour, Wheat. Fisher Flouring Mills Company. 370,586–9; Aug. 29; Serial Nos. 418,517–20; published June 20, 1939.
Milk, Condensed. Holland Food Corporation. 127,619; renewed Nov. 18, 1939.
Milk, Condensed. Holland Food Corporation. 129,166; renewed Jan. 27, 1940.
Oranges, Fresh. Santiago Orange Growers Association. 128,263; renewed Dec. 30, 1939.
Oranges, Fresh. Santiago Orange Growers Association. 128,842; renewed Jan. 13, 1940.
Popcorn, Cheese flavored. Becker Pretzel Bakeries, Inc. 370,405; Aug. 29; Serial No. 406,269; published July 12, 1938.
Potatoes, Pollwoda & Anasky. 370,460; Aug. 29; Serial No. 415,795; published June 20, 1939.
Potatoes, Vacuum packed shoestring. Maine State Packing Company. 370,533; Aug. 29; Serial No. 417,809; published June 20, 1939.
Poultry, sausage, beef, etc. Swift and Company. 370,583; Aug. 29; Serial No. 418,454; published June 20, 1939.
Product for bakery use. Cow & Gate (Canada) Limited. 370,484; Aug. 29; Serial No. 416,722; published June 20, 1939.
Shortening, Vegetable. Glidden Company. 370,597; Aug. 29; Serial No. 418,634; published June 20, 1939.
Syrup, Confectioners corn. Union Sales Corporation. 370,487; Aug. 29; Serial No. 416,751; published June 20, 1939.
Toffee and sugar confectionery. Walters' "Palm" Toffee Limited. 370,496; Aug. 29; Serial No. 416,977; published June 20, 1939.

Vegetables, Fresh. W. B. Grainger Packing Company. 370,574; Aug. 29; Serial No. 418,406; published June 20, 1939.

CLASS 47

Champagne. Ellena Brothers. 370,402; Aug. 29; Serial No. 405,439; published Aug. 16, 1938.
Vermouth. E. D'Emarese di S. Richetta & Figli. 370,409; Aug. 29; Serial No. 408,187; published June 13, 1939.
Wine punch. Columbia Winery and Fruit Distilling Co. 370,474–7; Aug. 29; Serial Nos. 416,541–4; published May 30, 1939.
Wine punch. Columbia Winery and Fruit Distilling Co. 370,478; Aug. 29; Serial No. 416,546; published May 30, 1939.
Wines. Italian Swiss Colony. 370,529; Aug. 29; Serial No. 417,734; published May 30, 1939.
Wines. Italian Swiss Colony. 370,555; Aug. 29; Serial No. 418,106; published June 13, 1939.
Wines. Schenley Import Corporation. 370,561–2; Aug. 29; Serial Nos. 418,270–1; published June 13, 1939.

CLASS 48

Malt beverage, Cereal. Harvard Company. 129,163; renewed Jan. 27, 1940.

CLASS 49

Whiskey and gin. United Cigar-Whelan Stores Corporation. 370,421; Aug. 29; Serial No. 412,566; published Feb. 7, 1939.
Whiskey, Rye. A. J. Mandl, Inc. 370,617; Aug. 29; Serial No. 418,930; published June 20, 1939.

CLASS 50

Etched engraving plates. Vari-Color Machine Co. 370,384; Aug. 29; Serial No. 389,398; published June 20, 1939.
Kits, Decorating and planning. Brides House, Inc. 370,436; Aug. 29; Serial No. 413,510; published June 20, 1939.
Ribbon fly catcher. Honey Web Inc. 370,613; Aug. 29; Serial No. 418,875; published June 20, 1939.

LIST OF LABELS

Bellaire. For Cartons. Bird & Son, Inc. 53,430; Aug. 29.
Botanee Box. For Material for Making Artificial Flowers. W. J. Caley. 53,433; Aug. 29.
Briar Bowl. For Tobacco. Marta Cigar Company. 53,450; Aug. 29.
Bullock's Salon Footwear. For Footwear. A. C. Clayton Printing Company. 53,436; Aug. 29.
Center Spot. For Writing Tablets. P. E. Trouche. 53,455; Aug. 29.
Crown Copperized Fruit Wrap. For Fruit Wraps. Crown-Zellerbach Corporation. 53,438; Aug. 29.
Dexin. For Dietary Supplement for Children and Adults. Burroughs Wellcome & Co. (U. S. A.) Inc. 53,432; Aug. 29.
Dolphin's Natural Barks, the Wonderful Drops for the Eye. For Drops for the Eye. B. J. Dolphin. 53,439; Aug. 29.
Dutch Treat. For an Orange Flavored Carbonated Beverage. A-Treat Bottling Company. 53,428; Aug. 29.
Ehlers White Giant. For Rice. A. Ehlers, Inc. 53,441; Aug. 29.
Fine Footwear. For Footwear. A. C. Clayton Printing Company. 53,435; Aug. 29.
Fog-Pruf Glass Cleaner. For a Glass Cleaner. H. B. Cowan. 53,437; Aug. 29.
Fresh No. One Deodorant Cream. For Deodorant Cream. Pharma-Craft Corporation. 53,453; Aug. 29.
Fresh No. One. For Deodorant Cream. Pharma-Craft Corporation. 53,454; Aug. 29.
Frizzed Fresh. For Fruits and Vegetables. F. C. Locke. 53,447; Aug. 29.
Gandy Dough Master. For Folding Frame Baker's Canvasses and Rolling-pin Covers. E. S. Gandrud. 53,443; Aug. 29.
Holland Linen. For Stationery, Writing Paper and Writing Tablets. Wayne Paper & Box & Printing Corp. 53,459; Aug. 29.
Joseph Salon Shoes. For Shoes. A. C. Clayton Printing Company. 53,434; ug. 29.
Ju-C-Orange. For a Carbonated Beverage. Krim Beverage Company. 53,446; Aug. 29.
Lady Betty. For Golden Bantam Succotash. J. English. 53,442; Aug. 29.
Lovelee Hair Snood. For Hair Nets. Glemby Company. 53,445; Aug. 29.
Motorist Picnic Kit. For a Picnic Assortment Consisting of Deviled Tongue, Deviled Ham, a Mock Chicken Spread, a Meat Food Product Used as a Buffet Spread, a Liver Spread, and All-Purpose Meat, Frankfurters and a Cream Cheese Spread with Pimiento. Armour and Company. 53,429; Aug. 29.
Orchids. For Candy. Page & Shaw Inc. 53,451; Aug. 29.
Pueblo. For Men's Ties. Paris Neckwear Co. Inc. 53,452; Aug. 29.
Royal Bread Sliced. For Bread. Waxide Paper Company. 53,458; Aug. 29.
Royal Scottie. For Stationery, Writing Paper, and Writing Tablets. Wayne Paper Box & Printing Corp. 53,460; Aug. 29.
Schmidt's Blue Ribbon Pantry Package Sliced White Bread Open in Middle—Like a Book! For Bread. W. E. Long Co. 53,448; Aug. 29.
Sliced Wheat Bread. For Wheat Bread. Waxide Paper Company. 53,457; Aug. 29.
Stix-Quik. For Cement Patch Kits. W. Draper. 53,440; Aug. 29.
The Clinton Shoe. For Cartons. Bird & Son, Inc. 53,431; Aug. 29.
The 3 Musketeers. For Candy. Mars Incorporated. 53,449; Aug. 29.
Treasure. For California Port Wine. Garcia Wine Corporation. 53,444; Aug. 29.
U. T.-D. High Power Drain Pipe Opener. For a Drain Pipe Cleaner or Opener. Universal Tool-Drive Tool Company. 53,456; Aug. 29.

LIST OF PRINTS

A Hit! For Lager Beer. Hyde Park Breweries Association, Inc. 17,546; Aug. 29.
A True Lager Brewed For You. For Lager Beer. Hyde Park Breweries Association, Inc. 17,547; Aug. 29.
Berg Method of Entombment. For Burial Vaults. C. L. Berg. 17,542; Aug. 29.
Candy is Delicious Food. For Candy. E. J. Brach & Sons. 17,543; Aug. 29.
Drink To Me Only With. For Lager Beer. Hyde Park Breweries Association, Inc. 17,545; Aug. 29.
Hyde Park 5% True Lager Beer. For Lager Beer. Hyde Park Breweries Association, Inc. 17,552; Aug. 29.
Hyde Park True Lager Beer. For Lager Beer. Hyde Park Breweries Association, Inc. 17,553; Aug. 29.
In the Good Old Summertime. For Lager Beer. Hyde Park Breweries Association, Inc. 17,550; Aug. 29.
Limpie Sus Armas Regularmente. For Gun Cleaning Products. Frank A. Hoppe, Inc. 17,544; Aug. 29.
Long Long Ago. Long Ago. For Lager Beer. Hyde Park Breweries Association, Inc. 17,551; Aug. 29.
Parke-Davis Cod Liver Oil. For Cod Liver Oil. Parke, Davis & Company. 17,556; Aug. 29.
Parke-Davis Medicated Throat Discs. For Medicated Throat Discs. Parke, Davis & Company. 17,555; Aug. 29.
Popular Since 1870. For Lager Beer. Hyde Park Breweries Association, Inc. 17,548; Aug. 29.
Seldom Equalled. Never Excelled. For Lager Beer. Hyde Park Breweries Association, Inc. 17,549; Aug. 29.
The World's Softest Shoe. For Shoes. B. Warshauer. 17,557; Aug. 29.
We Sell Frozen Confections on a Stick. For Frozen Confections on a Stick. Joe Lowe Corporation. 17,554; Aug. 29.

LIST OF REISSUE PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Adirondack Sportswear, Inc. (See Fitch, Albert R., assignor.)

Baxter, William R., Garfield Heights, assignor to The Empire Plow Company, Cleveland, Ohio. Highway guard rail construction. Re. 21,182; Aug. 29.

Blau, Ludwig W., Houston, Tex., assignor to Standard Oil Development Company. Reflection shooting procedure for the accurate determination of dip. Re. 21,183; Aug. 29.

Bowser, S. F., & Company. (See Griffith, Clement P., assignor.)

Empire Plow Company, The. (See Baxter, William R., assignor.)

Fitch, Albert R., Summit, N. J., assignor to Adirondack Sportswear, Inc., Amsterdam, N. Y. Garment. Re. 21,184; Aug. 29.

Fulweiler, John E., Moylan, Pa. Separating system and method. Re. 21,185; Aug. 29.

Griffith, Clement P., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind. Air release mechanism for dispensing apparatus. Re. 21,186; Aug. 29.

Hooper, Harold A. (See Hooper, William J., assignor.)

Hooper, William J., Elsah, assignor of one-half to H. A. Hooper, Chicago, Ill. Dental cleaning spray. Re. 21,187; Aug. 29.

Iron Paving Limited. (See Small, Francis G., assignor.)

La Bounty, Eddie P., Hoopeston, Ill. Centrifugal can feeding means. Re. 21,188; Aug. 29.

Leighton Machine Company. (See Rice John H., assignor.)

Price, Osborne I., Frederick, Md., assignor to Westinghouse Electric & Manufacturing Company. Refrigerating apparatus. Re. 21,189; Aug. 29.

Rice, John H., assignor to Leighton Machine Company, Manchester, N. H. Circular knitting machine for drop-stitch work. Re. 21,190; Aug. 29.

Small, Francis G., Middlesex, assignor to Iron Paving Limited, London, England. Road construction. Re. 21,191; Aug. 29.

Standard Oil Development Company. (See Blau, Ludwig W., assignor.)

Stein, Irving, Monticello, N. Y. Clipping device. Re. 21,192; Aug. 29.

Westinghouse Electric & Manufacturing Company. (See Price, Osborne I., assignor.)

LIST OF DESIGN PATENTEES

Aldrich, Ralph N., and A. H. Jaehne, assignors to Standard Oil Company of California, San Francisco, Calif. Service station. 116,392; Aug. 29.

American Lead Pencil Company. (See Reckford, J. S., and Kubler, assignors.)

Angeletti, Joseph M., New York, N. Y. Lamp. 116,356; Aug. 29.

Angeletti, Joseph M., New York, N. Y. Lamp shade. 116,357; Aug. 29.

Angeletti, Joseph M., New York, N. Y. Lamp shade. 116,358; Aug. 29.

Arch, Samuel G., Ontremont, Quebec, Canada. Shoe rack. 116,393; Aug. 29.

Asbury-Prentiss, Inc., et al. (See Asch, Leonard C., assignor.)

Asch, Leonard C., New York, N. Y., assignor of one-half to Polly Prentiss, Inc., and one-half to Asbury-Prentiss, Inc., Sumter, S. C. Beach coat or similar article. 116,425; Aug. 29.

Baldwin Rubber Company. (See Cotterman, Don R., assignor.)

Banks, Dorothy A. (See Banks, Reginald M. and D. A.)

Banks, Reginald M. and D. A., Woodmere, N. Y. Surf-mattress. 116,359; Aug. 29.

Bibula, Jacob L., New York, N. Y. Belt buckle. 116,333; Aug. 29.

Bibula, Jacob L., New York, N. Y. Belt buckle. 116,334; Aug. 29.

Bibula, Jacob L., New York, N. Y. Belt buckle. 116,335; Aug. 29.

Bibula, Jacob L., New York, N. Y. Belt buckle. 116,336; Aug. 29.

Bryan, Mortimer N., New York, N. Y. Hat. 116,426; Aug. 29.

Chernow, Michael, New York, N. Y. Alphabet for forming monograms or similar article. 116,361; Aug. 29.

Chernow, Michael, New York, N. Y. Alphabet for forming monograms or similar article. 116,362; Aug. 29.

Clark, Frederick J., assignor to Eastman Machine Company, Buffalo, N. Y. Portable electric cutting machine or similar article. 116,360; Aug. 29.

Continental Elastic Corporation, The. (See Hansmann, Ernest, assignor.)

Cotterman, Don R., assignor to Baldwin Rubber Company, Pontiac, Mich. Floor mat. 116,363; Aug. 29.

Eastman Machine Company. (See Clark, Frederick J., assignor.)

Edelstein, Jennie, Miami Beach, Fla. Holder for thread spools or similar articles. 116,364; Aug. 29.

Edson, Bert, Pawtucket, R. I. Lace. 116,365; Aug. 29.

Evans Products Company. (See Raseman, Rachel D., assignor.)

Faber, Peter J., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Amplifier or the like. 116,394; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,395; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,396; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,397; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,398; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,399; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress ensemble. 116,400; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,401; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,402; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,403; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,404; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress ensemble. 116,405; Aug. 29.

Fracchia, Pauline, New York, N. Y. Dress. 116,406; Aug. 29.

Gaertner, Frederick J., Maplewood, N. J. Jewelry setting or similar article. 116,337; Aug. 29.

Gatch, Milton W., assignor to The Gatch Wire Goods Company, Baltimore, Md. Fly swatter blade. 116,366; Aug. 29.

Gatch Wire Goods Company, The. (See Gatch, Milton W., assignor.)

Gates, Arnold N., Cleveland Heights, Ohio. Eye shade or similar article. 116,427; Aug. 29.

Gist, Thomas H., Bloomington, Ill. Announcement stand. 116,338; Aug. 29.

Goldman, Harry, New York, N. Y. Dress. 116,428; Aug. 29.

Greenblatt, Henry, University City, Mo. Shoe. 116,429; Aug. 29.

Hadley Company, The. (See Ingleby, George A., assignor.)

Haggart, John C., Jr., Westfield, N. J., assignor to Signal Service Corporation. Reflector signal device or the like. 116,339; Aug. 29.

Hansmann, Ernest, assignor to The Continental Elastic Corporation, New Bedford, Mass. Braided fabric or article of similar nature. 116,367; Aug. 29.

Haon, Marion, New York, N. Y. Dress. 116,407; Aug. 29.

Heberger, Linus F., Rochester, N. Y., assignor to Metal Arts Company. Finger ring. 116,340; Aug. 29.

Hedin, Oscar C., Minneapolis, Minn. Counterbore. 116,341; Aug. 29.

Hudachek, Richard F., Los Angeles, Calif. Combination ashtray and cigarette receptacles. 116,368; Aug. 29.

Ingleby, George A., Cranston, assignor to The Hadley Company, Inc., Providence, R. I. Cuff link. 116,342; Aug. 29.

Jaehne, Alfred H. (See Aldrich, R. N., and Jaehne.)

Kenzie, Clarence W. (See Lynch, T. B., and Kenzie.)

Kleinert, I. B., Rubber Company. (See Selverstone, Agnes A., assignor.)

Kolmer, Max, New York, N. Y. Suit ensemble. 116,430; Aug. 29.

Krüger, Johannes, Erfurt, Germany. Typewriter frame. 116,369; Aug. 29.
Kubler, Edwin C. (See Reckford, J. S., and Kubler.)
Kuznetz, Samuel, New York, N. Y. Dress ensemble. 116,408; Aug. 29.
Laib, William L., Oak Park, assignor to Reynolds Electric Company, Chicago, Ill. Motor support. 116,343; Aug. 29.
Lewis, Florence N., New York, N. Y. Combination perfume container. 116,371; Aug. 29.
Lindemann, A. J., & Hoverson Company. (See Lindemann. Walter C., assignor.)
Lindemann, Walter C., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis. Range or analogous article. 116,370; Aug. 29.
Lombard, Ralph S., Detroit, Mich., assignor to United States Rubber Company, New York, N. Y. Pneumatic tire. 116,344; Aug. 29.
Lovejoy, Arthur W., Lowell, assignor to P. I. Morehouse, Lawrence, Mass. Cake box. 116,345; Aug. 29.
Lovejoy, Arthur W., Lowell, assignor to P. I. Morehouse, Methuen, Mass. Cupboard. 116,346; Aug. 29.
Lynch, Thomas B., and C. W. Kenzie, Irons, Mich. Culinary cabinet. 116,372; Aug. 29.
Maidman, Ada, New York, N. Y. Dress. 116,409; Aug. 29.
Maidman, Ada, New York, N. Y. Dress ensemble. 116,410; Aug. 29.
Maidman, Ada, New York, N. Y. Dress. 116,411; Aug. 29.
Mandler, Vera S., New York, N. Y. Dress. 116,347; Aug. 29.
Mandler, Vera S., New York, N. Y. Dress. 116,348; Aug. 29.
Mas, George N., Lynchburg, Va. Bottle. 116,349; Aug. 29.
McDevitt, Harry J., Media, Pa. Safety lock for automobile doors. 116,350; Aug. 29.
Metal Arts Company. (See Heberger, Linus F., assignor.)
Miller, George P., Dover-Foxcroft, Maine. Pair of spectacles. 116,431; Aug. 29.
Miller, George P., Dover-Foxcroft, Maine. Pair of spectacles. 116,432; Aug. 29.
Mitchell, Lewis J., Warren, Ohio. Cream pitcher. 116,373; Aug. 29.
Monarch Manufacturing Works, Inc. (See Murphy, Thomas W., assignor.)
Montgomery Ward & Co. (See Faber, Peter J., assignor.)
Montgomery Ward & Co. (See Underwood, John A., assignor.)
Moore, Madeline, New York, N. Y. Dress ensemble. 116,433; Aug. 29.
Morehouse, Philip I. (See Lovejoy, Arthur W., assignor.)
Murphy, Thomas W., Penn Valley, assignor to Monarch Manufacturing Works, Inc., Philadelphia, Pa. Oil burner pumping and control unit. 116,374; Aug. 29.
Murphy, Thomas W., Penn Valley, assignor to Monarch Manufacturing Works, Inc., Philadelphia, Pa. Oil burner pumping and control unit. 116,375; Aug. 29.
Nurre Companies, The. (See Silverman, Sebet, assignor.)
Ostrander, Hiram H., Norris, Tenn. Crane bridge or similar article. 116,376; Aug. 29.
Ostrander, Hiram H., Norris, Tenn. Crane bridge or similar article. 116,377; Aug. 29.
Philippe, Alfred, New York, N. Y. Necklace. 116,378; Aug. 29.
Prentiss, Polly, Inc., et al. (See Asch, Leonard C., assignor.)
Ramsthal, Alfred F., assignor to West Bend Aluminum Co., West Bend, Wis. Coffee server. 116,379; Aug. 29.
Ramsthal, Alfred F., assignor to West Bend Aluminum Co., West Bend, Wis. Coffee maker. 116,380; Aug. 29.
Raseman, Rachel D., Bloomfield Hills, assignor to Evans Products Company, Detroit, Mich. Tractive vehicle. 116,434; Aug. 29.
Reckford, Joseph S., New York, and E. C. Kubler, Hollis, N. Y., assignors to American Lead Pencil Company, Hoboken, N. J. Pencil tip. 116,412; Aug. 29.
Reynolds Electric Company. (See Laib, William L., assignor.)
Rosenzweig, Arthur, New York, N. Y. Coat. 116,351; Aug. 29.
Ross, Eugene S., New York, N. Y. Textile fabric. 116,413; Aug. 29.
Rost, Katheryn, New York, N. Y. Dress. 116,414; Aug. 29.
Roth, Bernard S., St. Louis, Mo. Dress. 116,415; Aug. 29.
Schechtel, Harry, Denver, Colo. Air conditioner. 116,381; Aug. 29.
Schenley Distillers Corporation. (See Schuellein, Edward J., assignor.)
Schor, Mary G., New York, N. Y. Dress. 116,435; Aug. 29.
Schuellein, Edward J., assignor to Schenley Distillers Corporation, New York, N. Y. Bottle. 116,352; Aug. 29.
Selverstone, Agnes A., Brooklyn, assignor to I. B. Kleinert Rubber Company, New York, N. Y. Textile fabric. 116,416; Aug. 29.
Shatt, Daniel, New York, N. Y. Combination desk unit. 116,382; Aug. 29.
Shelton, Lee A., Des Moines, Iowa. Display rack. 116,383; Aug. 29.
Siegler, Eugene G. and R. J., Marion County, Ill. Heater or similar article. 116,384; Aug. 29.
Siegler, Raymond J. (See Siegler, Eugene G. and R. J.)
Signal Service Corporation. (See Haggart, John C., Jr., assignor.)
Simeone, Michael, New York, N. Y. Textile fabric. 116,436; Aug. 29.
Siverts, Anna L., New York, N. Y. Dress. 116,417; Aug. 29.
Siverts, Anna L., New York, N. Y. Dress ensemble. 116,418; Aug. 29.
Sigoda, Mark, Laurelton, Long Island, N. Y. Textile fabric or similar article. 116,386; Aug. 29.
Sigoda, Mark, Laurelton, Long Island, N. Y. Textile fabric or similar article. 116,385; Aug. 29.
Sigoda, Mark, Laurelton, Long Island, N. Y. Textile fabric or similar article. 116,387; Aug. 29.
Sigoda, Mark, Laurelton, Long Island, N. Y. Textile fabric or similar article. 116,388; Aug. 29.
Silverman, Sebet, Atlantic City, assignor to The Nurre Companies, Inc., Egg Harbor City, N. J. Mirror. 116,353; Aug. 29.
Standard Oil Company of California. (See Aldrich, R. N., and Jaehne, assignors.)
Sussman, Fannie, New York, N. Y. Dress. 116,419; Aug. 29.
Toran, Fay, New York, N. Y. Dress. 116,437; Aug. 29.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 116,420; Aug. 29.
Turpan, Mark, West Englewood, N. J. Textile fabric or similar article. 116,421; Aug. 29.
Underwood, John A., Evanston, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Cooking range. 116,389; Aug. 29.
Underwood, John A., Evanston, assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill. Cooking range. 116,390; Aug. 29.
United States Rubber Company. (See Lombard, Ralph S., assignor.)
Walther, John L., New York, N. Y. Woven textile fabric. 116,422; Aug. 29.
West Bend Aluminum Co. (See Ramsthal, Alfred F., assignor.)
Wojtalewicz, Frank M., Chicago, Ill. Prayer rail. 116,354; Aug. 29.
Wright, Richard H., Cleveland Heights, Ohio. Valance clip. 116,438; Aug. 29.
Zahn, Samuel, New York, N. Y. Dress. 116,423; Aug. 29.
Zahn, Philip, New York, N. Y. Dress. 116,424; Aug. 29.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 116,355; Aug. 29.
Zavell, Arnold, New York, N. Y. Textile fabric or similar article. 116,391; Aug. 29.

LIST OF PATENTEES

TO WHOM

PATENTS WERE ISSUED ON THE 29TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abel, Jack, Elmhurst, N. Y. Powered cross feed for lathes. 2,170,888; Aug. 29.
Ackley, Sherman G., assignor to Peoples Finance and Thrift Company of Bakersfield, Bakersfield, Calif. Whip stock. 2,171,020; Aug. 29.
Adams, Robert J. (See Johnson, H. S., and Adams.)
Adams, Schalto E., assignor of one-half to C. E. Dues, Flint, Mich. Trailer hitch. 2,170,983; Aug. 29.
Adamson Machine Company, The, et al. (See Winegar, E. M., and Dawes, assignors.)
Ainsworth Manufacturing Company. (See Potter, Albert T., assignor.)
Aktiebolaget Imo-Industrl. (See Montelius, Carl O. J., assignor.)
Alco Valve Company. (See Shrode, John L., assignor.)
Allen, Harold F., assignor to Link-Belt Company, Chicago, Ill. Removable accumulator. 2,170,890; Aug. 29.
Allgemeine Elektricitats-Gesellschaft. (See Helmann, Walter, assignor)
Allgemiene Elektricitats Gesellschaft. (See Wiegand, Erich, assignor.)
Allin, George S., Seattle, Wash. Anchor. 2,170,889; Aug. 29.
Allis-Chalmers Manufacturing Company. (See Newhouse, Ray C., assignor.)
Allis-Chalmers Manufacturing Company. (See Norelius, Emil F., assignor.)
Almgren, August E. (See Hothersall, J. M., and Almgren.)
Altamura, Mario S., Woodbury, N. J., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y. Reacting a tetra-alkyl lead and a nitro-phenol. 2,171,423; Aug. 29.
Aluminum Company of America. (See Merritt, R. S., and Keller, assignors.)
Amdur, Leon H., Brooklyn, N. Y. Keyless lock device. 2,170,957; Aug. 29.
American Can Company. (See Hothersall, J. M., and Almgren, assignors.)
American Car and Foundry Company. (See Nichols, Daniel R., assignor.)
American Enka Corporation. (See van der Waals, Hendrik G., and Wiessing, assignors.)
American Foundry Equipment Company, The. (See Minich, Verne E., assignor.)
American Locomotive Company. (See Blunt, James G., assignor.)
American Lurgi Corporation. (See Steiner, Carl, assignor.)
American Radiator & Standard Sanitary Corporation. (See Cornell, Edward S., Jr., assignor.)
American Rezo, Inc. (See Le Gall, Jean, assignor.)
American Rolling Mill Company, The. (See Freeze, Jonathan R., assignor.)
American Steel Foundries. (See Baselt, Walter H., assignor.)
American Steel Foundries. (See Hedgcock, William C., assignor.)
Anderson, Charles R., Chicago, Ill. Card holder. 2,171,350; Aug. 29.
Anderson, Verner G. (See Tideman, Carl E., assignor.)
Anderson, Warren D., Bridgeport, Conn., assignor to General Electric Company. Multiple recorder. 2,171,327; Aug. 29.
Andrews, Edward F., Chicago, Ill. Power soarer. 2,170,958; Aug. 29.
Andrews, P. L., Corporation. (See Mertz, August A., assignor)
Anschutz & Co., G. m. b. H. (See Bode, R., and von Petery, assignors.)
Archbald, Ralph H., Burgh Heath, England. Rate of climb indicator. 2,171,298; Aug. 29.
Archibald, Francis M., Elizabeth, N. J., assignor to Standard Alcohol Company. Olefin polymerization. 2,171,250; Aug. 29.
Ardco Manufacturing Co. (See Stern, Charles, assignor.)
Arkell Safety Bag Company. (See Greene, Edwin D., assignor.)
Art Metal Construction Company. (See Jones, James R., assignor.)
Associated Electric Laboratories, Inc. (See Cox, Irvin W., assignor.)
Atkinson, Noël, London, assignor to Electric & Musical Industries Ltd., Hayes, England. Radio receiving circuit. 2,171,135; Aug. 29.
Attanasio, Margaret, New York, N. Y. Glove pocket construction. 2,171,440; Aug. 29.
Atwood, Seth B., Rockford, Ill. Hinge. 2,171,021; Aug. 29.
Automatic Control Corporation. (See Persons, Lawrence M., assignor.)
Auto Union Aktiengesellschaft. (See Boxan, Walter, assignor.)
Aviation Manufacturing Corporation. (See Lampton, Glen T., assignor.)
Bach, Charles G., assignor to The Vilter Manufacturing Company, Milwaukee, Wis. Automatic compressor unloader. 2,170,846; Aug. 29.
Baker, Charles S., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor regulator. 2,171,285; Aug. 29.
Baker, Charles S., Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J. Compressor regulator. 2,171,286; Aug. 29.
Baker, John S., assignor to Cook Electric Company, Chicago, Ill. Lightning arrester. 2,171,351; Aug. 29.
Baker, Virgil P., et al. (See Werts, Richard A., assignor.)
Baldwin-Duckworth Chain Corporation. (See McCann, John F., assignor.)
Ball, Samuel G., Streetly, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y. Covering tennis balls. 2,171,118; Aug. 29.
Banks, George B., Chelmsford, England, assignor to Radio Corporation of America. Electron beam deflection circuits. 2,170,847; Aug. 29.
Barber Asphalt Corporation. (See Warden, John B., assignor.)
Barger, Charles O., Kent, Wash. Milk bottle filler attachment. 2,171,386; Aug. 29.
Barnes Drill Co. (See Johnson, Albert M., assignor.)
Baron, Carol F., Brooklyn, N. Y. Method and apparatus for making artificial stone. 2,170,936; Aug. 29.
Barr and Stroud, Limited. (See Strang, John M., assignor.)
Barry, Gerald J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa. Tuning condenser mounting. 2,171,441; Aug. 29.
Bartels, Heinrich, Dresden-Laubegast, and O. Müller, assignors to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Photographic camera. 2,170,959; Aug. 29.
Bartman & Bixer Inc. (See Meyer, Charles, assignor.)
Barton, Louis E., Windsor, Conn., assignor to National Lead Company, New York, N. Y. Making composite titanium pigments. 2,170,800; Aug. 29.
Bartscherer, Franz, Duisburg-Hamborn, Germany. Improving the texture of rolled products. 2,171,074; Aug. 29.
Baselt, Walter H., assignor to American Steel Foundries, Chicago, Ill. Elliptic spring. 2,171,206; Aug. 29.
Battelle Memorial Institute. (See Hobart, Floyd B., assignor.)
Bazeley, Arthur J., Shaker Heights, Ohio, assignor to National Malleable and Steel Castings Company. Car coupler. 2,170,891; Aug. 29.
Bear Manufacturing Company. (See Wochner, Henry, assignor.)
Beavan, John, Ayr, Scotland. Emergency brake apparatus for motor road vehicles. 2,171,352; Aug. 29.
Beck, Johnse H., assignor to The Geo. F. Cram Company, Indianapolis, Ind. Map and like article support. 2,171,497; Aug. 29.
Becker, Rudolf. (See Pier, M., Simon, Becker, and Stoewener.)
Beckett, Clay C., Washington, D. C. Golf ball teeing device. 2,171,299; Aug. 29.
Beckman, Rudolph H., Davenport, Iowa, assignor to French & Hecht, Incorporated. Wheel structure. 2,171,170; Aug. 29.
Beekman, Everett W., and R. Hauhursin, Muncie, Ind. and E. E. Ward, Verona, N. J., assignors to General Motors Corporation, Detroit, Mich. Trimming and reaming machine. 2,171,262; Aug. 29.
Belits, William A., Dumont, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Strand-winding machine. 2,171,119; Aug. 29.
Bell Telephone Laboratories, Incorporated. (See Belits, William A., assignor.)
Bell Telephone Laboratories, Incorporated. (See Davis, Kingsbury H., assignor.)
Bell Telephone Laboratories, Incorporated. (See De Lange, Owen E., assignor.)
Bell Telephone Laboratories, Incorporated. (See Fry, Jacob R., assignor.)
Bell Telephone Laboratories, Incorporated. (See Glass, M. S., and Hale, assignors.)
Bell Telephone Laboratories, Incorporated. (See Kohman, Girard T., assignor.)
Bell Telephone Laboratories, Incorporated. (See Price, Arnold F., assignor.)
Bellfort, David, New York, N. Y. Shoulder supporting member. 2,170,960; Aug. 29.

Bender, Harry, Antioch, Calif., assignor, by mesne assignments, to The Dow Chemical Company, Midland, Mich. Chlorination. 2,170,801; Aug. 29.
Bendix Aviation Corporation. (See Carroll, Eugene G., assignor.)
Bendix Aviation Corporation. (See Kliesrath, Victor W., assignor.)
Bendix Aviation Corporation. (See Neill, Robert L., assignor.)
Bendix Aviation Corporation. (See Sanford, Roy S., assignor.)
Bendix Products Corporation. (See Gallup, David L., assignor.)
Bendix Radio Corporation. (See Hicks, Charles W., assignor.)
Benjamin Electric Mfg. Company. (See Niemann, George F., assignor.)
Benjamin Electric Mfg. Company. (See Wideroe, Marshall S., assignor.)
Bennett, Charles C., Dallas, Tex., assignor of one-third to C. W. Walker, Charleston, S. C. Mop wringer. 2,171,387; Aug. 29.
Bennett, Claude C., South Bend, Ind., assignor to A. E. Peragen, Inc., Seattle, Wash. Wheel balance tester. 2,170,848; Aug. 29.
Berger, Ludwig, Knittelfeld, Styria, Austria. Method and means for binding fibrous building material. 2,171,388; Aug. 29.
Bergevin, Charles R., and E. W. Halvorsen, assignors to The Torrington Manufacturing Company, Torrington, Conn. Spring coiling machine. 2,170,984; Aug. 29.
Bergner, Nore E., Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y. Centrifugal separator provided with special discharges. 2,171,136; Aug. 29.
Berndt, Walter, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Vertical antenna. 2,170,849; Aug. 29.
Bigg, Henry T., and S. H. Sunderland, assignors to Percy Jones (Twinlock) Limited, Beckenham, Kent, England. Tray or baseboard for use with loose leaf books. 2,171,488; Aug. 29.
Bigley, William J. (See McCoy, James R., assignor.)
Blair, Charles, Jr., Webster Groves, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd. Resolving petroleum emulsions. 2,171,328; Aug. 29.
Blaupot ten Cate, Steven J., Kootwijk, Netherlands. Applying a coating of lacquer to flexible materials. 2,171,389; Aug. 29.
Blaw-Knox Company. (See Harrington, Edward L., assignor.)
Blazier, Jess A., Cleveland, Ohio. Snow sweeper. 2,171,075; Aug. 29.
Blodgett, Fred D., Randolph, Maine. Shears and scissors. 2,171,468; Aug. 29.
Blomberg, Martin P., Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich. Locomotive front end arrangement. 2,170,791; Aug. 29.
Blunt, James G., Schenectady, assignor to American Locomotive Company, New York, N. Y. Steam locomotive. 2,171,106; Aug. 29.
Bode, Richard, and A. von Petery, Kiel, assignors to Anschutz & Co., G. m. b. H., Kiel-Neumuhlen, Germany. Antifriction bearing. 2,171,390; Aug. 29.
Boecker, Alfred, Bielerhof, Biel, assignor to the firm Duradur S. A., Biel, Switzerland. Producing hard materials. 2,171,391; Aug. 29.
Boecker, Theodore J., Melrose, assignor to Haley Cate Rockwood Company Inc., Everett, Mass. Apparatus for skiving strip material. 2,170,920; Aug. 29.
Bonnett, John, and A. Schillace, Girard, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y. Target toy. 2,170,850; Aug. 29.
Bookwalter, R. R., et al. (See Perry, John R., assignor.)
Boone, Charles G., Tulsa, Okla., assignor to Gustin-Bacon Manufacturing Co., Kansas City, Mo. Oil well pumping transmission. 2,171,287; Aug. 29.
Boone, James, Clinton, N. J. Rain detecting means. 2,171,329; Aug. 29.
Borgkvist, Elmer, Arlington, N. J. Relay. 2,170,961; Aug. 29.
Borg-Warner Corporation. (See Greif, Edward J., assignor.)
Borg-Warner Corporation. (See Zeidler, Reinhold C., assignor.)
Borsetti, Ermanno, deceased, Genova-Sampierdarena; E. Borsetti, sole heires and administratrix, Ferrara, assignor to Soc. An. Rolla Traverso & Storace, Genova-Sampierdarena, Italy. Multiple clamp. 2,171,076; Aug. 29.
Borsetti, Ernegia, sole heiress and administratrix. (See Borsetti, Ermanno.)
Boultbee, Arthur H., Martinez, assignor to Shell Development Company, San Francisco, Calif. Polymerization of olefins. 2,171,207; Aug. 29.
Bowden (Engineers) Limited. (See Tondeur, Rene, assignor.)
Bowman, Robert A., Prospect Park, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Vacuum-producing apparatus. 2,170,802; Aug. 29.
Boxan, Walter, assignor to Auto Union Aktiengesellschaft, Chemnitz, Germany. Automobile. 2,171,469; Aug. 29.
Brainard, Frank W., et al. (See Crum, Roland R., assignor.)
Branch, Albert L., Richmond, Va. Tie case. 2,171,077; Aug. 29.
Brassert, H. A., & Company. (See Brassert, Herman A., assignor.)
Brassert, Herman A., Bovington, England, assignor to H. A. Brassert & Company, Chicago, Ill. Utilization of waste heat. 2,171,353; Aug. 29.
Brauer, Walter, Oklahoma City, Okla. Well pump. 2,171,171; Aug. 29.
Braunschweig, Werner, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Electric condenser. 2,171,231; Aug. 29.
Bremer, Fredrick J., assignor to The Mosler Safe Company, Hamilton, Ohio. Protective device. 2,171,263; Aug. 29.
Breth, Walter J., Akron, and W. C. McCoy, Shaker Heights, assignors to The General Tire & Rubber Company, Akron, Ohio. Apparatus for expanding a tire carcass and inserting an air bag therein. 2,171,424; Aug. 29.
British Rubber Producers' Research Association, The. (See Farmer, E. H., Stevens, and Rowe, assignors.)
Brooke, Arthur O., Compton, Calif., assignor to General Motors Corporation, Detroit, Mich. Polishing machine. 2,170,792; Aug. 29.
Brooker, Leslie G. S., Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J. Photographic sensitizing dyes and their preparation. 2,170,803; Aug. 29.
Brooker, Leslie G. S., assignor to Eastman Kodak Company, Rochester, N. Y. Merocyanine dyes from benzoxazoles. 2,170,804; Aug. 29.
Brooker, Leslie G. S., assignor to Eastman Kodak Company, Rochester, N. Y. Photographic emulsion containing dyes from benzoxazoles. 2,170,805; Aug. 29.
Brooker, Leslie G. S., assignor to Eastman Kodak Company, Rochester, N. Y. Merocyanine dyes containing a thionaphthenone nucleus. 2,170,806; Aug. 29.
Brooker, Leslie G. S., assignor to Eastman Kodak Company, Rochester, N. Y. Merocyanine dyes from barbituric acids. 2,170,807; Aug. 29.
Browall, Bert H., assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden. Variable leverage mechanism for vehicle brakes. 2,171,392; Aug. 29.
Brown Company. (See Haney, John I., assignor.)
Brown Company. (See Schur, M. O., and Hoos, assignors.)
Brown, Dewey O., Lansing, Mich. Garnish molding and securing means therefor. 2,171,412; Aug. 29.
Brown, Harry F., Detroit, Mich. Indicator. 2,171,022; Aug. 29.
Browning, Glenn H. (See Doble, F. C., and Browning.)
Brunetti, Joseph P., Clarksburg, W. Va. Fountain attachment for faucets. 2,171,471; Aug. 29.
Brüning, Hans, assignor to W. C. Heraeus, G. m. b. H., Hanau-on-the-Main, Germany. Explosion safety device. 2,170,937; Aug. 29.
Bruns, Chester H. (See Smith, C. E., and Bruns.)
Bruson, Herman A., assignor to Röhm & Haas Company, Philadelphia, Pa. Sulphonates of polyaryl polyethers. 2,171,498; Aug. 29.
Budd, Edward G., Manufacturing Company. (See Dean, Albert G., assignor.)
Budd, Edward G., Manufacturing Company. (See Dean, A. G., and Farr, assignors.)
Budd, Edward G., Manufacturing Company. (See Ragsdale, E. J. W., and Dean, assignors.)
Budd, Edward G., Manufacturing Company. (See Tarbox, John P., assignor.)
Bullard, Edwin W., Hamden, Conn. Tie wire apparatus. 2,171,120; Aug. 29.
Bullihger, Conrad, Riverside, assignor to A. Stein & Company, Chicago, Ill. Undergarment. 2,171,354; Aug. 29.
Buras, Quinton, Birmingham, Ala. Sign composing apparatus. 2,170,985; Aug. 29.
Burke, Alfred, New York, N. Y. Lamp shade and covering therefor. 2,171,137; Aug. 29.
Burns, Frank B. (See Schuetz, C. C., and Burns.)
Burnside, John, Glasgow, Scotland. Wind-screen wiper. 2,171,393; Aug. 29.
Busi, Mario, assignor to The Silver Globe Corp., New York, N. Y. Dry-cleaning machine. 2,171,499; Aug. 29.
Buxton, Jay, Hawthorne, Calif. Rubber faucet extension. 2,171,023; Aug. 29.
Bye, Mortimer, Cincinnati, Ohio. Product for the treatment of the alimentary canal. 2,170,921; Aug. 29.
Bynum, Pink T., Beeville, Tex. Casing perforating device. 2,171,442; Aug. 29.
Callender's Cable and Construction Company Limited. (See Grieve, George T. W., assignors.)
Calorider Corporation, The. (See Downs, C. R., and Spiselman, assignors.)
Cameron, Norman M., Bedford, Ind. Ashtray and cigarette extinguisher. 2,171,489; Aug. 29.
Campbell, Donald G., New York, N. Y. Ice cubing machine. 2,171,264; Aug. 29.
Canepa, Ernest, Gemenos, Bouches-du-Rhone, France. Automatic locking device. 2,171,138; Aug. 29.
Capron, Ralph C., Ottawa, Kans. Invalid's bed-chair. 2,171,251; Aug. 29.
Carbide and Carbon Chemicals Corporation. (See Drake, Nathan L., assignor.)

Carbide and Carbon Chemicals Corporation. (See Chitwood, Henry C., assignor.)
Carlson, Bert G., Freeport, assignor to The Sperry Gyroscope Company, Inc., Brooklyn, N. Y. Aircraft trim indicator. 2,171,265; Aug. 29.
Carr, Brice M., Lebanon, Tenn. Carpenter's tool. 2,170,986; Aug. 29.
Carr, Charles E., Columbus, Ohio. Cornerib or similar structure. 2,171,121; Aug. 29.
Carreras, James, and R. Laborda, Brooklyn; said Carreras assignor of one-fourth to F. Valls, one-eighth to A. Gausch, and one-eighth to J. Gausch, New York, N. Y. Venetian blind. 2,170,938; Aug. 29.
Carroll, Charles F., London, England. Cutting torch or blowpipe. 2,170,793; Aug. 29.
Carroll, Eugene G., Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind. Master cylinder and piston structure. 2,170,851; Aug. 29.
Case, Harold W., Dayton, Ohio. Integral tail wheel and rudder for airplanes. 2,170,808; Aug. 29.
Castle, Alfred J., assignor to Inland Steel Company, Chicago, Ill. Producing ferrous sheet material. 2,171,300; Aug. 29.
Celanese Corporation of America. (See Gentile, Alexander H., assignor.)
Celanese Corporation of America. (See Martin, Herbert E., assignor.)
Chalmers, John W., Deptford, London, assignor to Molins Machine Company, Limited, London, England. Wrapping machine. 2,171,172; Aug. 29.
Chambers, William L., Ogden, Utah. Convertible camp bed and luggage carrier. 2,170,987; Aug. 29.
Chaplin Corporation. (See Chaplin, Merle P., assignor.)
Chaplin, Merle P., assignor to Chaplin Corporation, South Portland, Maine. Apparatus for and method of reshaping a molded pulp article. 2,171,413; Aug. 29.
Chayne, Charles A., Flint, assignor to General Motors Corporation, Detroit, Mich. Remote control for transmissions. 2,170,794; Aug. 29.
Cheatham Electric Switching Device Co., et al. (See Richterkessing, Frank H., assignor.)
Chireix, Henri, Paris, France, assignor to Compagnie Generale de Telegraphic sans Fil. Aircraft blind landing system. 2,170,852; Aug. 29.
Chitwood, Henry C., Lakewood, Ohio, assignor to Carbide and Carbon Chemicals Corporation. Production of alkoxyacetones. 2,170,855; Aug. 29.
Christen, Victor H., Detroit, Mich., assignor of fifty per cent to Superior Seal & Stamp Company. Windshield wiper clip. 2,170,939; Aug. 29.
Christensen, Oscar, and E. A. Sperry, Redlands, Calif. Collar form attachment for garment hangers. 2,171,301; Aug. 29.
Christian, Jean E., assignor to Phillips Petroleum Company, Bartlesville, Okla. Device for controlling and regulating liquid, level liquid flow, and temperature and pressure conditions thereof. 2,171,394; Aug. 29.
Christiansen, Ejnar, Birmingham, England. Machine for feeding or depositing measured quantities of dough or the like. 2,170,988; Aug. 29.
Chrysler Corporation. (See Dunn, W. T., and Schotz, assignors.)
Chrysler Corporation. (See Janeway, Robert N., assignor.)
Chrysler Corporation. (See Neracher, C. A., and Dunn, assignors.)
Chrysler Corporation. (See Tarbell, John C., assignor.)
Cincinnati Grinders Incorporated. (See Dall, A. H., and Haas, assignors.)
Cincinnati Time Recorder Company, The. (See Streckfuss, Elmer G., assignor.)
Cissell, William M., Louisville, Ky. Water conditioner. 2,171,266; Aug. 29.
Clamann, Gerhard, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany. Photoelectrically scanning balanced sound records. 2,170,962; Aug. 29.
Clay, John E., Berwick, Iowa. Snow plow. 2,171,056; Aug. 29.
Cleveland Pneumatic Tool Company, The. (See Van Sittert, Paul, assignor.)
Cline, Earl E., assignor to Mueller Co., Decatur, Ill. Breakable stem for fire hydrants. 2,171,078; Aug. 29.
Clum Manufacturing Company. (See Winning, Robert K., assignor.)
Coates, Neligh C., Kansas City, Mo. Tile cutting machine. 2,171,024; Aug. 29.
Coffing, Fred W., et al. (See Perry, John R., assignor.)
Coffing Hoist Co. (See Perry, John R.)
Cole, Elza F., Warren, assignor to The Deister Concentrator Company, Fort Wayne, Ind. Producing compound motion. 2,171,355; Aug. 29.
Coleman, Gerald H., and R. P. Perkins, assignors to The Dow Chemical Company, Midland, Mich. Alkylated diphenyloxide. 2,170,809; Aug. 29.
Coleman, Gerald H., and R. R. Dreisbach, assignors to The Dow Chemical Company, Midland, Mich. Alkyl halo-diphenyloxides. 2,170,989; Aug. 29.
Coleman, Gerald H., and G. V. Moore, assignors to The Dow Chemical Company, Midland, Mich. Methallyl ethers of phenylphenols. 2,170,990; Aug. 29.
Collins & Aikman Corporation. (See Kaufman, Frank M., assignor.)
Commercial Solvents Corporation. (See Vanderbilt, Byron M., assignor.)
Compagnie Generale de Telegraphic sans Fil. (See Chirlex, Henri, assignor.)
Conner, Guy O., assignor to Wheeling Steel Corporation, Wheeling, W. Va. Gasketed fitting. 2,171,302; Aug. 29.
Continental Can Company. (See Pearson, Paul E., assignor.)
Control Equipment Corporation. (See Myers, Sidney E., assignor.)
Cook Electric Company. (See Baker, John S., assignor.)
Cook, Harry W., Malta, Ohio. Sash counterbalancing means for window frames. 2,171,252; Aug. 29.
Corn Products Refining Company. (See Otterbacher, Theodore J., assignor.)
Cornell, Edward S., Jr., Larchmont, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Machine for forming cold wrought products. 2,170,810; Aug. 29.
Cornelius, Peter H. K. G., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Regenerative radio receiver. 2,171,139; Aug. 29.
Cornell, Edward S., Jr., Larchmont, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Forming cold-worked articles. 2,170,811; Aug. 29.
Cornell, Edward S., Jr., Larchmont, assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y. Making pipe fittings. 2,170,853; Aug. 29.
Cornwell, Ralph T. K., Spotsylvania, assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Pressure sensitive adhesive sheet. 2,171,140; Aug. 29.
Cox, Irvin W., assignor to Associated Electric Laboratories, Inc., Chicago, Ill. Magneto generator. 2,170,892; Aug. 29.
Coyer, Francis J., assignor of forty per cent to F. C. Coyer, Oswego, N. Y. Sound pick-up unit. 2,171,173; Aug. 29.
Coyer, Frederick C. (See Coyer, Francis J., assignor.)
Cram, Geo. F., Company. (See Beck, Johnse H., assignor.)
Cram, Geo. F., Company. (See Peterson, Arthur L., assignor.)
Crosley Corporation, The. (See Money, Roland H., assignor.)
Crosley Corporation, The. (See Rockwell, Ronald J., assignor.)
Crouse-Hinds Company. (See Herrick, John W., assignor.)
Crout, Prescott D., Boston, assignor to Raytheon Manufacturing Company, Newton, Mass. Electrical apparatus. 2,171,512; Aug. 29.
Crown Cork & Seal Company. (See Pearson, Thomas F., assignor.)
Crum, Roland R., assignor of one-fourth to E. A. Perkins, and three-eighths to F. W. Brainard, Whittier, Calif. Roller bit. 2,171,057; Aug. 29.
Crum, Roland R., assignor of one-fourth to E. A. Perkins, and three-eighths to F. W. Brainard, Whittier, Calif. Manufacturing roller bit structure. 2,171,058; Aug. 29.
Crumb, Charles F., Chicago, and E. Mowry, Rock Falls, Ill., assignors to International Harvester Company. Rake tooth construction. 2,171,025; Aug. 29.
Culp, Harry R. (See Youngman, J., and Culp.)
Cunningham, Lewis L., Milwaukee, Wis., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Adjustable thermostatic switch. 2,171,273; Aug. 29.
Cupples Company. (See Thener, Arthur F., assignor.)
Curtis, Charles C., assignor to Halstead Products Company, Oakland, Calif. Oil testing apparatus. 2,171,026; Aug. 29.
Curtis Refrigerating Machine Company. (See Gygax, Ernest, assignor.)
Custer, Vincent L., Eau Claire, Wis. Rotary conveyer guide and fork for barn cleaning apparatus. 2,171,330; Aug. 29.
Cutler-Hammer, Inc. (See Krieger, Alvin W., assignor.)
Dahl, Gosta, Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del. Suction nozzle. 2,170,963; Aug. 29.
Dahlstrom, Roy, Metuchen, N. J., assignor to National Lead Company, New York, N. Y. White titanium dioxide pigment. 2,170,940; Aug. 29.
Dall, Albert H., Silverton, and F. S. Haas, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio. High speed spindle construction. 2,171,208; Aug. 29.
Dalotel, Maurice A., Deuil, assignor to S. R. Mathot, Paris, France. Moving picture camera. 2,171,472; Aug. 29.
Dalpayrat, Henri F., New York, N. Y., assignor to Radio Corporation of America. Electric discharge device. 2,171,490; Aug. 29.
Daniels, William C. (See White, R., and Daniels.)
Davis, Kingsbury H., Closter, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Transmission control in signaling systems. 2,170,941; Aug. 29.
Dawes, Forrest L. (See Winegar, E. M., and Dawes.)
Dawn Mfg. Corp. (See Welter, Herman C., assignor.)
Day, Charles, Stockport, England. Machine for grinding articles to predetermined forms. 2,171,211; Aug. 29.
Day, George W., Newfane, N. Y., assignor to General Motors Corporation, Detroit, Mich. Tubular radiator. 2,171,253; Aug. 29.

Dayton Rubber Manufacturing Company, The. (See Freedlander, Abraham L., assignor.)
Dean, Albert G. (See Ragsdale, E. J. W., and Dean.)
Dean, Albert G., Narberth, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Underframe. 2,171,107; Aug. 29.
Dean, Albert G., Philadelphia, and W. W. Farr, Penn Valley, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Vehicle construction. 2,171,425; Aug. 29.
Dean, Albert G., Narberth, assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Vehicle roof construction and method of assembly. 2,171,426; Aug. 29.
Dearborn Chemical Company. (See Hinsch, Walter H., assignor.)
Dearborn, Frank W., assignor to Gold Car Heating & Lighting Company, Brooklyn, N. Y. Coupler for train pipes. 2,171,288; Aug. 29.
De Coudres, Harry J., Chicago, Ill. Universal joint. 2,171,059; Aug. 29.
De Forest, Alfred V., Marlboro, N. H., assignor to Research Corporation. Resonant vibration fatigue tester. 2,171,303; Aug. 29.
Deister Concentrator Company, The. (See Cole, Elza F., assignor.)
Delamere Company. (See Gallagher, Walter J., assignor.)
Delamere Company. (See Huppert, William, assignor.)
De Lange, Owen E., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Frequency modulation. 2,170,812; Aug. 29.
De Lanty, Loren J. (See Schumacher, H., Perry, and De Lanty.)
De Lanty, Loren J., assignor to Sperry Products, Inc., Brooklyn, N. Y. Device for controlling electric circuits. 2,170,964; Aug. 29.
De Laval Separator Company, The. (See Bergner, Nore E., assignor.)
Del-Mac Shoe Process Corporation, The. (See Sutcliffe, Harry L., assignor.)
Despatch Shops, Inc. (See Steuber, George A., assignor.)
De Spirt, Giles, Toronto, Ontario, Canada. Floor surfacing machine. 2,171,060; Aug. 29.
Delta Electric Company. (See Wiley, Lee M., assignor.)
Detroit Trust Company et al., executors. (See Trabold, Frank W.)
Deverell, Frederick W. E., assignor to Spiral Locks, Limited, Wellington, Wellington, New Zealand. Latch. 2,171,174; Aug. 29.
Dexter Folder Company. (See Goodwin, Edwin W., assignor.)
Diaz, Guillermo P., Habana, Cuba. Combined automatic lighting and advertising device. 2,171,079; Aug. 29.
Dickey, Joseph B. (See McNally, J. G., Dickey, and Zugschwerdt.)
Dictaphone Corporation. (See Worden, Robert E., assignor.)
Dietzel, Willy. See Eppenstein O., and Dietzel.)
Dinzl, Richard W., Westfield, assignor to The Watson-Stillman Co., Roselle, N. J. Ingot ejector. 2,171,141; Aug. 29.
Dixon, Joseph, Crucible Company. (See Miller, Kay, assignor.)
Doble Engineering Company. (See Doble, F. C., and Browning, assignors.)
Doble, Frank C., Cambridge, and G. H. Browning, Winchester, assignors to Doble Engineering Company, Medford, Mass. Apparatus for determining insulating values. 2,170,813; Aug. 29.
Doh, William G., Philadelphia, Pa. Clearing device for beer dispensing systems. 2,171,142; Aug. 29.
Doom, Ernest F., Niagara Falls, N. Y., assignor to Electro Metallurgical Company. Stabilizing silicon alloys. 2,171,108; Aug. 29.
Dopyera, Emil E. (See Kislingbury, Fredray H., assignor.)
Doty, Alfred F., Bridgeport, Conn. Electric switch. 2,171,267; Aug. 29.
Dow Chemical Company, The. (See Bender, Harry, assignor.)
Dow Chemical Company, The. (See Coleman, G. H., and Dreisbach, assignors.)
Dow Chemical Company, The. (See Coleman, G. H., and Moore, assignors.)
Dow Chemical Company, The. (See Coleman, G. H., and Perkins, assignors.)
Dow Chemical Company, The. (See Grether, E. F., Shawver, and Du Vall, assignors.)
Dow Chemical Company, The. (See Moyle, Clarence L., assignor.)
Dow Chemical Company, The. (See Shelley, Paul G., assignor.)
Downey, John J., Los Angeles, and W. W. Murray, Downey, Calif., assignors to Sinclair Refining Company, New York, N. Y. Manufacture of gasoline and fuel oil. 2,170,795; Aug. 29.
Downs, Charles R., Old Greenwich, Conn., and J. W. Spiselman, Brooklyn, N. Y., assignors, by mesne assignments, to The Calorider Corporation, Old Greenwich, Conn. Humidity control. 2,171,109; Aug. 29.
Drake, Harcourt C., Hempstead, assignor to Sperry Products, Inc., Brooklyn, N. Y. Rail flaw detector mechanism. 2,170,965; Aug. 29.
Drake, Nathan L., College Heights, Md., assignor to Carbide and Carbon Chemicals Corporation. Methoxy acetaldehyde and making alkoxy acetaldehydes. 2,170,854; Aug. 29.
Drapeau, Joseph E., Jr., Calumet City, Ill., assignor to The Glidden Company, Cleveland, Ohio. Preparing copper powder. 2,170,814; Aug. 29.
Dreisbach, Robert R. (See Coleman, G. H., and Dreisbach.)
Duclos, Aeneas J. N., South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y. Material treating apparatus. 2,171,232; Aug. 29.
Dues, Clarence E. (See Adams, Schalto E., assignor.)
Dunlop Tire and Rubber Corporation. (See Ball, Samuel G., assignor.)
Dunn, William T. (See Neracher, C. A., and Dunn.)
Dunn, William T., and O. W. Schotz, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,170,856; Aug. 29.
Du Pont, E. I., de Nemours & Company. (See Hannum, C. W., and Rossander, assignors.)
Du Pont, E. I., de Nemours & Company. (See Loder, Donald J., assignor.)
Du Pont, E. I., de Nemours & Company. (See Melgs, Frederick M., assignor.)
Du Pont, E. I., de Nemours & Company. (See Nydegger, Roland R., assignor.)
Du Pont, E. I., de Nemours & Company. (See Rothrock, Henry S., assignor.)
Du Pont, E. I., de Nemours & Company. (See Underwood, W. F., and Rothrock, assignors.)
Du Pont, E. I., de Nemours & Company. (See Wahl, Milton H., assignor.)
Du Pont, E. I., de Nemours & Company. (See Williams, Ira, assignor.)
Du Pont, E. I., de Nemours & Company. (See Woodhouse, John C., assignor.)
Du Pont, E. I., de Nemours & Company. (See Young, Fred, assignor.)
Durandur, S. A. (See Boecker, Alfred, assignor.)
Durite Plastics, Incorporated. (See Novotny, Emil E., assignor.)
Du Vall, Russell B. (See Grether, E. F., Shawver, and Du Vall.)
Dynamit-Actien-Gesellschaft, vormals Alfred Nobel & Co. (See Friederich, Walter, assignor.)
Eakin, Howard G., Milwaukee, Wis. Vehicle brake. 2,171,289; Aug. 29.
Eastman Kodak Company. (See Brooker, Leslie G. S., assignor.)
Eastman Kodak Company. (See McNally, J. G., Dickey, and Zugschwerdt, assignors.)
Eaton Manufacturing Company. (See Swank, Arthur L., assignor.)
Eckert, Clarence R., Englewood, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, New York, N. Y. Thick butt shingle. 2,171,143; Aug. 29.
Eckhold, Charles G., Wellston, Mo. Fork construction. 2,170,966; Aug. 29.
Eclipse Aviation Corporation. (See McNeil, C. I., and Longfellow, assignors.)
Eclipse Aviation Corporation. (See Nardone, Romeo M., assignor.)
Eggert, John, Leipzig, and B. Wendt, Dessau, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Wrapping material. 2,171,427; Aug. 29.
Ekes, Ludwik. (See Rosenwald, M., and Ekes.)
Electric & Musical Industries Ltd. (See Atkinson, Noël, assignor.)
Electric & Musical Industries Limited. (See Percival, William S., assignor.)
Electro Metallurgical Company. (See Doom, Ernest F., assignor.)
Electrolux Corporation. (See Dahl, Gosta, assignor.)
Electronic Control Corporation. (See Powers, Ralph A., assignor.)
Ellinwood, Herman R., Los Angeles, Calif. Dual control mechanism. 2,170,982; Aug. 29.
Elliott, Raymond D., Long Beach, Calif., assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex. Recording apparatus and method. 2,170,857; Aug. 29.
Ely, George B., Olivet, Mich. Induction heat transformer. 2,171,080; Aug. 29.
Endres, Rudolf, Dessau-Rosslau/Anhalt, Germany. Brake and pressure fluid. 2,171,491; Aug. 29.
Engel, Fred S., Brooklyn, N. Y. Time and distance recorder. 2,170,858; Aug. 29.
Eppenstein, Otto, and W. Dietzel, assignors to the firm of Carl Zeiss, Jena, Germany. Projecting apparatus. 2,170,967; Aug. 29.
Erbel, Joseph, San Francisco, Calif. Braking mechanism. 2,171,473; Aug. 29.
Erichsen, Ruth J., East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Phototube. 2,171,233; Aug. 29.
Eroe, Harold S., Wharton, N. J., assignor to the Government of the United States of America, as represented by the Secretary of War and his successors in office. Flare. 2,170,815; Aug. 29.
Errera, Attilio, Turin, Italy. Coin collecting and object distributing machine. 2,171,492; Aug. 29.

Evasic, John, Detroit, Mich. Feeding finger. 2,170,942; Aug. 29.
Ervin, John F., Ann Arbor, Mich. Metallic abrasive. 2,171,081; Aug. 29.
Ervin, John F., Ann Arbor, Mich. Metallic abrasive. 2,171,082; Aug. 29.
Ervin, John F., Ann Arbor, Mich. Metallic abrasive. 2,171,083; Aug. 29.
F. L. M. Holding Company. (See Stonecypher, William E., assignor.)
Fansteel Metallurgical Corporation. (See Van Note, Lillian M., assignor.)
Farmer, Ernest H., Hertfordshire, and H. P. Stevens and J. W. Rowe, London Bridge, assignors, by mesne assignments, to The British Rubber Producers' Research Association, London, England. Treatment of rubber. 2,171,395; Aug. 29.
Farr, William W. (See Dean, A. G., and Farr.)
Farrell, Matthew, Middleport, Pa. Brake mechanism. 2,171,396; Aug. 29.
Farwell, Phillip, Sunapee, N. H. Saw file. 2,171,443; Aug. 29.
Fusco, Angelo, Genoa, Italy. Dining table. 2,171,084; Aug. 29.
Feicht, Robert N., assignor to General Motors Corporation, Dayton, Ohio. Refrigerating apparatus. 2,171,110; Aug. 29.
Fenagen, A. E., Inc. (See Bennett, Claude C., assignor.)
Ferrante, Joseph C., Bronx, N. Y. Synchronous converter control system. 2,170,816; Aug. 29.
Finkelstein, William. (See Freeman, Samuel, assignor.)
Flexible Steel Lacing Company. (See Olsen, John C., assignor.)
Florea, Manuel, assignor to L. C. Schmidt, Springfield, Ill. Ruffle press. 2,171,356; Aug. 29.
Folsom, Elwood E., Jr., Trumbull, Conn., assignor to General Electric Company. Electric cord assembly for vacuum cleaners or the like. 2,171,331; Aug. 29.
Folsom, Leon T., Berkeley, assignor to Standard Oil Company of California, San Francisco, Calif. Fuel pump for supercharged engines. 2,171,209; Aug. 29.
Ford, Frank R., Sparkbrook, Birmingham, England. Duplicating machine. 2,171,061; Aug. 29.
Frank, William, New York, N. Y. Brush. 2,171,444; Aug. 29.
Freedlander, Abraham L., assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio. Belt and belt connector. 2,171,055; Aug. 29.
Freeland Spool and Bobbin Corp. (See Schuster, Ervin A., assignor.)
Freeman, George A., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge device and electrode. 2,171,234; Aug. 29.
Freeman, Samuel, assignor to W. Finkelstein, New York, N. Y. Hair curling device. 2,171,332; Aug. 29.
Freeze, Jonathan R., assignor to The American Rolling Mill Company, Middletown, Ohio. Sheet piling. 2,170,796; Aug. 29.
Freihoff, Anthony G., Ferguson, assignor of one-half to H. H. Gatch, Ladue City, Mo. Frog and point switch for miniature railway tracks. 2,171,357; Aug. 29.
French & Hecht, Incorporated. (See Beckman, Rudolph H., assignor.)
Freund, Herman R., assignor to Intertype Corporation, Brooklyn, N. Y. Casting means for line-casting machines. 2,171,500; Aug. 29.
Freygang, Walter H., Essex Fells, assignor to Walter Kidder & Company, Inc., Bloomfield, N. J. Manufacturing spherical light weight containers. 2,171,111; Aug. 29.
Friberg, Hjalmar, Stora Essingen, near Stockholm, Sweden. Labeling machine for bottles and the like. 2,171,085; Aug. 29.
Frickey, Royal E., assignor to Welding Service, Inc., San Francisco, Calif. Repairing rail ends. 2,170,859; Aug. 29.
Friederich, Walter, Troisdorf, Cologne, assignor to Dynamit-Actien-Gesellschaft, vormals Alfred Nobel & Co., Troisdorf, near Cologne-on-the-Rhine, Germany. Disruptive or brisant explosive composition. 2,170,943; Aug. 29.
Frock, William F., North Jackson, Ohio. Selective gear transmission. 2,171,144; Aug. 29.
Fry, Jacob R., Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Relay. 2,171,333; Aug. 29.
Fulton Company, The. (See Thorp, J. R., and Strand, assignors.)
Fuoss, Raymond M., Schenectady, N. Y., assignor to General Electric Company. Electrical insulation. 2,171,334; Aug. 29.
Gallon Iron Works & Manufacturing Company. (See Keeler, Raymond W., assignor.)
Gallagher, Walter J., Yonkers, N. Y., assignor to Delamere Company, Inc., Jersey City, N. J. Hair curler. 2,171,122; Aug. 29.
Gallup, David L., assignor to Bendix Products Corporation, South Bend, Ind. Brake. 2,170,893; Aug. 29.
Gapinski, Edmund J., New York, N. Y. Showcase lock. 2,171,123; Aug. 29.
Gatch, Hayward H. (See Freihoff, Anthony G., assignor.)
Gates, Arthur O., and O. H. and G. Pearson, assignors, by mesne assignments, to N. L. Strike, Salt Lake City, Utah. Automatic fluid connection for toggle actions. 2,171,235; Aug. 29.
Gausch, Anthony. (See Carreras, J., assignor, and Laborda.)
Gausch, John, et al. (See Carreras, J., assignor, and Laborda.)
Gaylord Brothers, Inc. (See Grant, Chester A., assignor.)
Gebauer, Charles L., assignor to The Gebauer Chemical Company, Cleveland, Ohio. Dispensing receptacle. 2,171,501; Aug. 29.
Gebauer Chemical Company, The. (See Gebauer, Charles L., assignor.)
Gelardin, Albert, New York, N. Y. Flashlight. 2,171,304; Aug. 29.
Gelb, Joseph, New York, N. Y. Arc lamp. 2,171,027; Aug. 29.
Gelb, Joseph, New York, N. Y. Stand for supporting light projecting or light receiving units. 2,171,028; Aug. 29.
Geldhof, Silver, Detroit, Mich. Pneumatic tool. 2,171,029; Aug. 29.
General Cable Corporation. (See Wyland, Harry C., assignor.)
General Electric Company. (See Anderson, Warren D., assignor.)
General Electric Company. (See Folsom, Elwood E., Jr., assignor.)
General Electric Company. (See Fuoss, Raymond M., assignor.)
General Electric Company. (See McMahan, Kenton D., assignor.)
General Electric Company. (See Rosch, Arthur, assignor.)
General Electric Company. (See Schneider, Elbert D., assignor.)
General Motors Corporation. (See Beckman, E. W., Haubursin, and Ward, assignors.)
General Motors Corporation. (See Blomberg, Martin P., assignor.)
General Motors Corporation. (See Brooke, Arthur O., assignor.)
General Motors Corporation. (See Chayne, Charles A., assignor.)
General Motors Corporation. (See Day, George W., assignor.)
General Motors Corporation. (See Feicht, Robert N., assignor.)
General Motors Corporation. (See Glover, Rexford C., assignor.)
General Motors Corporation. (See Kamrath, Herbert G., assignor.)
General Motors Corporation. (See Mathews, Verner P., assignor.)
General Motors Corporation. (See Rabezzana, Hector, assignor.)
General Motors Corporation. (See Sullivan, Raymond H., assignor.)
General Tire & Rubber Company, The. (See Breth, W. J., and McCoy, assignors.)
Gentle, Alexander H., Spondon, near Derby, England, assignor to Celanese Corporation of America. Fabric finishing and like machines. 2,170,968; Aug. 29.
Gerrard Company, The. (See Rowe, Martin L., assignor.)
Gertler, Samuel E., assignor of one-half to H. I. Stein, New York, N. Y. Glow lamp. 2,171,359; Aug. 29.
Getnz, James L., Maryville, Tenn. Knitting. 2,171,236; Aug. 29.
Getaz, James L., Maryville, Tenn. Knitting fabric with elastic inlay and embroidery pattern. 2,171,445; Aug. 29.
Gibson, Charles S., Kingswood, England. Preparation of gold films. 2,171,086; Aug. 29.
Giesen, Johannes. (See Zetzsche, W., Giesen, and von Pongratz.)
Gilman Fanfold Corporation. (See Mabon, Carl R., assignor.)
Gilson Brothers Company. (See Gilson, Michael V., assignor.)
Gilson, Michael V., assignor to Gilson Brothers Company, Fredonia, Wis. Automobile truck. 2,171,030; Aug. 29.
Gits, Joseph A. and J. P. Gits, Chicago, Ill. Knob structure. 2,171,361; Aug. 29.
Gits, Jules P. (See Gits, Joseph A. and J. P.)
Givren, James C., Brockton, Mass. Shoe. 2,171,414; Aug. 29.
Glass, Myron S., West Orange, N. J., and D. A. S. Hale, Brooklyn, assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y. Multicathode ray discharge device. 2,170,944; Aug. 29.
Glidden Company, The. (See Drapeau, Joseph E., Jr., assignor.)
Glover, Rexford C., Clio, assignor to General Motors Corporation, Detroit, Mich. Making axle housings. 2,170,797; Aug. 29.
Goddeyne, Leo D. (See Slawson, Edward D., assignor.)
Goff, Mont, Huntington, W. Va. Switch retainer construction. 2,171,087; Aug. 29.
Gold Car Heating & Lighting Company. (See Dearborn, Frank W., assignor.)
Good Humor Ice Cream Company of Los Angeles. (See Hawkins, Elza, assignor.)

Goodlass Wall & Lead Industries Limited. (See Jones, Brinley, assignor.)
Goodwin, Edwin W., New Rochelle, assignor to Dexter Folder Company, New York, N. Y. Sheet-feeding apparatus. 2,170,894; Aug. 29.
Government of the United States of America, as represented by the Secretary of War and his successors in office. (See Eroe, Harold S., assignor.)
Gow, William G., Belleville, assignor to Gow-Mac Instrument Company, Newark, N. J. Gas cell. 2,171,502; Aug. 29.
Gow-Mac Instrument Company. (See Gow, William G., assignor.)
Grady, Charles B., West Orange, N. J. Air conditioning apparatus. 2,170,991; Aug. 29.
Grady, Charles B., West Orange, N. J. Air conditioning. 2,170,992; Aug. 29.
Grady, Charles B., Sky Top, Pa. Air conditioning. 2,170,993; Aug. 29.
Grafe, Paul M., Livingston, N. J. Collapsible tube closure. 2,171,175; Aug. 29.
Graham, William S., and J. L. Hipple, Canton, Ill., assignors to International Harvester Company. Tractor implement. 2,171,031; Aug. 29.
Grant, Chester A., assignor to Gaylord Brothers, Inc., Syracuse, N. Y. Display rack for books and the like. 2,170,994; Aug. 29.
Green, Mason V., assignor, by mesne assignments, to Hayes Electric Manufacturing Company, Lansing, Mich. Magnetic impulse contactor. 2,171,124; Aug. 29.
Greene, Edwin D., assignor to Arkell Safety Bag Company, New York, N. Y. Crinkled paper tube and forming same. 2,170,945; Aug. 29.
Greif, Edward J., assignor to Borg-Warner Corporation, Chicago, Ill. Machine for forming bottle necks upon sheet metal tubs. 2,170,946; Aug. 29.
Grether, Ernest F., W. R. Shawver, and R. B. Du Vall, assignors to The Dow Chemical Company, Midland, Mich. Ethylene glycol aryloxy-acetates. 2,170,995; Aug. 29.
Grether, Ernest F., W. R. Shawver, and R. B. Du Vall, assignors to The Dow Chemical Company, Midland, Mich. Ethylene glycol di-(aryloxy-acetates). 2,170,996; Aug. 29.
Greve, Edgar E., assignor to Oil Well Supply Company, Dallas, Tex. Oil bath rotary. 2,171,176; Aug. 29.
Griesbacher, Hans, Taunton, Mass. Plant protector. 2,171,397; Aug. 29.
Grieve, George T. W., assignor to Callender's Cable and Construction Company Limited, London, England. Press for the extrusion of lead and other metals. 2,171,062; Aug. 29.
Griffin, Cecil M., Pittsburgh, Pa. Tube cleaner. 2,170,997; Aug. 29.
Griffith, Carroll L., and L. A. Hall, Chicago, Ill., assignors to The Griffith Laboratories, Inc. Composition of matter. 2,171,428; Aug. 29.
Griffith, Charles A., deceased, Knoxville, by D. E. Griffith, executor and trustee, Pruden, Tenn. Interlocking door structures for mine cars and like purposes. 2,170,998; Aug. 29.
Griffith, Donald E., executor and trustee. (See Griffith, Charles A.)
Griffith Laboratories, Inc. (See Griffith, C. L., and Hall, assignors.)
Griffiths, Gwyn, Durham, N. C. Air conditioning apparatus. 2,171,088; Aug. 29.
Gross, Joseph M., Rockville Centre, assignor to Ideal Fastener Corporation, Brooklyn, N. Y. Slider. 2,171,335; Aug. 29.
Guardian Electric Manufacturing Co. (See Nelsen, M., and Obszarny, assignors.)
Gulliksen, Finn H., Wilkinsburg, assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Photocell system to control spacing of traveling articles. 2,171,362; Aug. 29.
Gulliksen, Finn H., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Moisture indicator. 2,171,363; Aug. 29.
Gustin-Bacon Manufacturing Co. (See Boone, Charles G., assignor.)
Guze, Emil B., assignor to Quality Hardware & Machine Corporation, Chicago, Ill. Motor mounting for machine frames. 2,171,032; Aug. 29.
Gustin, Daniel S., Bloomfield, N. J., assigner, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa. Vapor lamp. 2,171,237; Aug. 29.
Gustin, Daniel S., Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa. Discharge device and electrode. 2,171,238; assignor.)
Gygax, Ernest, St. Louis, assignor to Curtis Refrigerating Machine Company, Wellston, Mo. Refrigerator heat interchanger. 2,171,239; Aug. 29.
Haas, Clarence C. (See Kriegbaum, G. M., and Haas.)
Haas, Frederick S. (See Dall, A. H., and Haas.)
Habgood, Bernard J., and L. B. Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited. Manufacture of rubber articles. 2,170,947; Aug. 29.
Hale, Douglas A. S. (See Glass, M. S., and Hale.)
Haley Cate Rockwood Company Inc. (See Boecker, Theodore J., assignor.)
Hall, Elwin B., et al. (See Werts, Richard A., assignor.)
Hall, Lloyd A. (See Griffith, C. L., and Hall.)
Halliburton Oil Well Cementing Company. (See Simmons, John T., assignor.)
Halstead Products Company. (See Curtis, Charles C., assignor.)
Halvorsen, Elmer W. (See Bergevin, C. R., and Halvorsen.)
Hamaut, Edward W., Dayton, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich. Inking system for surfaces-decorating machines. 2,170,817; Aug. 29.
Haney, John L., assignor to Brown Company, Berlin, N. H. Container for packaging dispensing interfolded paper sheets. 2,171,415; Aug. 29.
Hannum, Chester W., and S. S. Rossander, assignors to E. I. du Pont de Nemours & Company, Wilmington, Del. Azo dyes. 2,171,364; Aug. 29.
Hanson, Edward, Cleveland, Ohio. Internal combustion engine. 2,170,818; Aug. 29.
Harding, Howard V., New York, N. Y. Automatic holding and releasing device. 2,171,365; Aug. 29.
Hardinge Company. (See Hardinge, Harlowe, assignor.)
Hardinge, Harlowe, assignor to Hardinge Company, Incorporated, York, Pa. Ore reducing machine. 2,171,268; Aug. 29.
Harman, Marion W., Nitro, W. Va., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo. Vulcanization of rubber. 2,171,305; Aug. 29.
Harr, Herman H., Newark, N. J. Beer-dispensing faucet. 2,170,922; Aug. 29.
Harrington, Edward L., Pittsburgh, assignor to Blaw-Knox Company, Blawnox, Pa. Head assembly for grab buckets. 2,170,999; Aug. 29.
Hartmann-Riis, Petter, Ostre Aker, near Oslo, Norway. Electrical control apparatus for heating plants. 2,171,099; Aug. 29.
Hastert, Edouard, Esch-Alzette, Luxemburg. Apparatus for homogenizing powdered mixtures. 2,171,398; Aug. 29.
Hastert, Edouard, Esch-Alzette, Luxemburg, assignor to L. Peters, Duesseldorf, Germany. Method and apparatus for homogenizing powdered mixtures. 2,171,399; Aug. 29.
Haubursin, Richard. (See Beekman, E. W., Haubersin, and Ward.)
Hawgood, Harvey R., assignor to The Lees-Bradner Company, Cleveland, Ohio. Finishing tool. 2,171,325; Aug. 29.
Hawkins, Elza, assignor to Good Humor Ice Cream Company of Los Angeles, Los Angeles, Calif. Vehicle lighting unit. 2,171,089; Aug. 29.
Hayden, Silas B., Seattle, Wash. Nonglare reflector. 2,171,336; Aug. 29.
Hayes Electric Manufacturing Company. (See Green, Mason V., assignor.)
Haynes, Lonnie E., Birmingham, Ala. Cotton tamper. 2,171,090; Aug. 29.
Heath, Frank M., Silver Spring, Md. Guide for flush tank valves. 2,171,447; Aug. 29.
Heberlein, Georges, Wattwil, and E. Weiss, Wattwil, Bunt, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y. Treating fabrics and like materials to produce effects therein and products therefrom. 2,171,513; Aug. 29.
Heberlein Patent Corporation. (See Heberlein, G., and Weiss, assignors.)
Hedgcock, William C., Wilmette, assignor to American Steel Foundries, Chicago, Ill. Brake arrangement. 2,171,514; Aug. 29.
Heimann, Walter, assignor to Allgemeine Elektricitats-Gesellschaft, Berlin, Germany. Cathode ray tube recording device. 2,170,819; Aug. 29.
Heller, Harry, Ardmore, assignor to Sun Oil Company, Philadelphia, Pa. Fluid-dispensing apparatus. 2,171,125; Aug. 29.
Hellmann, John, E. L. Keyes, and J. A. Petrone, Pittsburgh, Pa. Air conditioned garment. 2,171,337; Aug. 29.
Henderson, Albert, assignor to W. P. Witherow, Pittsburgh, Pa. Building member and construction. 2,171,338; Aug. 29.
Henderson, Charles L., Appleton, assignor to Paper Patents Company, Neenah, Wis. Transfer machine. 2,170,895; Aug. 29.
Henderson, Charles L., Appleton, assignor to Paper Patents Company, Neenah, Wis. Transfer machine. 2,170,896; Aug. 29.
Henney Motor Company. (See Schofield, Earl L., assignor.)
Hensler, Bernard A. (See Humphries, H. E., and Hensler.)
Heraeus, W. C., G. m. b. H. (See Bruning, Hans, assignor.)
Hermanspann, Paul, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Direction finder. 2,170,860; Aug. 29.
Herrick, John W., assignor to Crouse-Hinds Company, Syracuse, N. Y. Flametight switch housing. 2,171,063; Aug. 29.
Heywood-Wakefield Company. (See Stinson, George, assignor.)
Hicks, Charles W., Hyattsville, Md., assignor, by mesne assignments, to Bendix Radio Corporation, New York, N. Y. Radio apparatus. 2,171,432; Aug. 29.

Hillman, Albert G., Maidenhead, England. Camera. 2,171,269; Aug. 29.
Hines, Charles, New York, N. Y. Window cleaner's guard. 2,171,446; Aug. 29.
Hinsch, Walter H., assignor to Dearborn Chemical Company, Chicago, Ill. Blow-off valve. 2,171,240; Aug. 29.
Hipple, Hermann, assignor to W. Müller, Munich, Germany. Telephonograph. 2,171,366; Aug. 29.
Hipple, James L. (See Graham, W. S., and Hipple.)
Hoban, Fairfield W., assignor to Stewart & McGuire, Inc., New York, N. Y. Coin classifier and slug detector. 2,170,897; Aug. 29.
Hobart, Edward A., Troy, Ohio. Electric apparatus power saver. 2,170,861; Aug. 29.
Hobart, Floyd B., assignor to Battelle Memorial Institute, Columbus, Ohio. Making clay products. 2,171,290; Aug. 29.
Hobson, Roy C., Cleveland Heights, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car truck. 2,170,862; Aug. 29.
Hochheimer, Ernst, Aachen, Germany. Mirror device for looms for ascertaining from the position of the weaver breaking of warp threads or the like in the loom. 2,171,493; Aug. 29.
Hodgman, Frederick S., Glen Rock, N. J., assignor, by mesne assignments, to The Waterbury Tool Company, Waterbury, Conn. Power transmission. 2,171,177; Aug. 29.
Hoffman, Allan C., Milldale, assignor to Scovill Manufacturing Company, Waterbury, Conn. Lipstick container. 2,171,112; Aug. 29.
Holland Company. (See Holland, Cyrus J., assignor.)
Holland, Cyrus J., Chicago, Ill., assignor to Holland Company. Bolster spring unit. 2,171,064; Aug. 29.
Hollmann, Hans E., assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Electron discharge device. 2,171,212; Aug. 29.
Holmström, Axel, Monte Carlo, Monaco, assignor to H. A. Holmstrom, Ronninge, Sweden. Etching apparatus. 2,171,474; Aug. 29.
Holmstrom, Harry A. (See Holmström, Axel, assignor.)
Holophane Company. (See Rolph, Thomas W., assignor.)
Holtz, Ireneus B., Ashville, Pa. Buckle. 2,171,448; Aug. 29.
Holzknecht, Felix, Vancouver, British Columbia, Canada, assignor of five per cent to J. Morisi, Washington, D. C. Collar fastener. 2,171,270; Aug. 29.
Hoos, Benjamin G. (See Schur, M. O., and Hoos.)
Hooven, Frederick J., Dayton, Ohio. Control mechanism for radio receivers. 2,170,820; Aug. 29.
Hopkins, Howe H., Detroit, Mich., assignor to National Carbon Company, Inc. Apparatus for detecting leakage. 2,171,113; Aug. 29.
Hothersall, John M., Brooklyn, and A. E. Almgren, Hillside, N. J., assignors to American Can Company, New York, N. Y. Can-closing machine. 2,170,821; Aug. 29.
Houdaille-Hershey Corporation. (See Jandus, H. S., and Purdy, assignors.)
Houghton, Harry S., San Marino, assignor to Witt Ice & Gas Co., Los Angeles, Calif. Packer for solid refrigerants. 2,170,969; Aug. 29.
Hubellmeyer, Edward J. (See Jordan, C., and Hubelmeyer.)
Humphrey, Fred, and A. Krieger, assignors to The Pass Book and Check Cover Company, Denver, Colo. Machine for making book covers. 2,171,126; Aug. 29.
Humphrey, George P., Mount Vernon, N. Y. Stabilized coupler for tractor drawn trailers. 2,170,898; Aug. 29.
Humphries, Horace E., and B. A. Hensler, assignors to Siemens Brothers & Company Limited, London, England. Telephone system. 2,170,899; Aug. 29.
Huppert, William, New York, N. Y., assignor to Delamere Company, Inc. Wave forming and setting device. 2,171,503; Aug. 29.
Hurt, Samuel N., assignor to Toledo Scale Manufacturing Company, Toledo, Ohio. Weighing scale. 2,170,798; Aug. 29.
Hyman, Henry. (See Muldoon, Bernard F., assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Eggert, J., and Wendt, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kiesskalt, Siegfried, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Kiesskalt, S., and Mejer, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See Schneider, K., and Schunck, assignors.)
I. G. Farbenindustrie Aktiengesellschaft. (See von Zeppelin, Helmut, assignor.)
I. G. Farbenindustrie Aktiengesellschaft. (See Zetzsche, W., Giesen, and von Pongratz, assignors.)
Ideal Fastener Corporation. (See Gross, Joseph M., assignor.)
Iden, Christian, Houston, Tex. Formation tester. 2,171,000; Aug. 29.
Imperial Chemical Industries Limited. (See Habgood, B. J., and Morgan, assignors.)
Ingersoll-Rand Company. (See Baker, Charles S., assignor.)
Inland Steel Company. (See Castle, Alfred J., assignor.)
International Harvester Company. (See Crumb, C. F., and Mowry, assignors.)
International Harvester Company. (See Graham, W. S., and Hipple, assignors.)
International Harvester Company. (See Kriegbaum, G. M., and Haas, assignors.)
Intertype Corporation. (See Freund, Herman R., assignor.)
Ireland, Glenn V., Wauwatosa, Wis. Welding rod. 2,171,306; Aug. 29.
Irving Air Chute Co. (See Waite, G., and Rogers, assignors.)
Jackson, George F., Toledo, Ohio. Brake shoe key anchorage. 2,171,307; Aug. 29.
Jacobs, Rex C., Detroit, Mich. Sent track and riser. 2,170,923; Aug. 29.
Jak-Kraw, Inc. (See Stirgwolt, Robert W., assignor.)
Jandus, Herbert S., and Charles F. Purdy, assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich. Brake lever construction. 2,170,900; Aug. 29.
Janes, Robert B., Rutherford, N. J., assignor by mesne assignments, to Radio Corporation of America, New York, N. Y. Television transmitting tube and electrode structure. 2,171,213; Aug. 29.
Janeway, Robert N., Detroit, assignor to Chrysler Corporation, Highland Park, Mich. Vehicle draft means. 2,170,924; Aug. 29.
Jeffrey Manufacturing Company, The. (See Levin, Nils D., assignor.)
Jeffrey Manufacturing Company, The. (See Mitchell, Lewis E., assignor.)
Johnson, Albert M., assignor to Barnes Drill Co., Rockford, Ill. Honing machine. 2,171,271; Aug. 29.
Johnson, Elvin H., Winnetka, Ill. Builder's hardware. 2,171,065; Aug. 29.
Johnson, Harley S., Erwin, Tenn., and R. J. Adams, Ashland, Ky. Derailment actuated brake applying means for pony and engine trucks. 2,171,178; Aug. 29.
Johnson, Tomlinson F., Atlanta, Ga. Fuse assembly. 2,171,179; Aug. 29.
Johnson, Treat B., Bethany, Conn., assignor to Textile Foundation, Washington, D. C. Silk. 2,171,241; Aug. 29.
Johnston, Charles F., Oakland, Calif. Piston, ring, and ring expander. 2,170,970; Aug. 29.
Jones, Brinley, Perivale, assignor to Goodlass Wall & Lead Industries Limited, London, England. Lead alloy. 2,171,180; Aug. 29.
Jones, Hilton I. and L., Wilmette, Ill. Fixing cloth finishes. 2,171,475; Aug. 29.
Jones, Homer W., Westfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation. Delayed action switch. 2,171,114; Aug. 29.
Jones, James R., assignor to Art Metal Construction Company, Jamestown, N. Y. Drop shelf and bracket. 2,170,799; Aug. 29.
Jones, Llewellyn. (See Jones, Hilton I. and L.)
Jones, Percy (Twinlock) Limited. (See Bigg, H. T., and Sunderland, assignors.)
Jonker, Johan L. H., E. H. Löpp, and A. J. W. M. van Overbeek, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Secondary electron emitting screen tube. 2,171,214; Aug. 29.
Jordan, Cornelius, and E. J. Hubelmeyer, Little Ferry, N. J., assignors to United American Metals Corporation, Brooklyn, N. Y. Metal feeding apparatus. 2,171,181; Aug. 29.
Jorgensen, Bernhardt, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Bulling machine. 2,170,901; Aug. 29.
Julius, Arthur D., assignor to Miner's, Inc., New York, N. Y. Container for rouge and the like. 2,171,339; Aug. 29.
Junker, Erich, Berlin-Charlottenburg, and W. Leitgebel, Berlin-Wilmersdorf, Germany. Melting up light metal scrap. 2,170,863; Aug. 29.
Justheim, Clarence I., et al. (See Woodbury, Elias L., assignor.)
Kamborian, Jacob S., Newton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for manufacturing strap sandals. 2,170,864; Aug. 29.
Kampf, Henry. (See Richardson, H. C., and Kampf.)
Kamrath, Herbert G., Flint, assignor to General Motors Corporation, Detroit, Mich. Carburetor air cleaner and silencer assembly. 2,170,902; Aug. 29.
Katz, Charles, Baltimore, Md. Cover for umbrellas, parasols, and sunshades. 2,171,476; Aug. 29.
Kauffeldt, Alfons, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Gaseous discharge tube. 2,171,215; Aug. 29.
Kaufman, Frank M., Merion, assignor to Collins & Aikman Corporation, Philadelphia, Pa. Apparatus for and method of weaving pile fabrics. 2,171,367; Aug. 29.
Kaufman, Leonard J., and C. H. Schemchak, Manitowoc, Wis. Abrasive tool. 2,171,254; Aug. 29.
Kay, Arthur J., Glendale, Calif. Cushion closing device. 2,171,066; Aug. 29.
Keeler, Raymond W., Galion, Ohio, assignor to Galion Iron Works & Manufacturing Company. Portable road roller. 2,171,255; Aug. 29.
Kellenberger, Leonhard, St. Gallen, Switzerland. Belt drive. 2,170,925; Aug. 29.
Keller, Fred. (See Merritt, R. S., and Keller.)
Keller, Rex E., Beverly Hills, Calif. Automatic transmission. 2,170,926; Aug. 29.

Kelley Koett Manufacturing Company, The. (See Werner, Wilbur S., assignor.)
Kennedy, Clarence C. (See Luce, W. F., and Kennedy.)
Kesten, Ulrich, Staaken, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany. Telephone system. 2,170,903; Aug. 29.
Keuffel, Adolf W., and H. F. Schermerhorn, Montclair, assignors to Keuffel & Esser Company, Hoboken, N. J. Measuring tape. 2,171,504; Aug. 29.
Keuffel & Esser Company. (See Keuffel, A. W., and Schermerhorn, assignors.)
Keyes, Ernest L. (See Hellmann, J., Keyes, and Petrone.)
Kidder, Walter, & Company. (See Freygang, Walter H., assignor.)
Kiesskalt, Siegfried, Frankfort-on-the-Main-Hoechst, and W. Mejer, Bad Soden, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Grinding device. 2,171,115; Aug. 29.
Kiesskalt, Siegfried, Frankfort-on-the-Main-Hoechst, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Gyratory crusher. 2,171,429; Aug. 29.
Kimball, Franklin E., Los Angeles, Calif. Contacting hydrocarbon vapors with zinc chloride. 2,171,033; Aug. 29.
King, George F. W., Helena, Mont. Rotary tooth brush. 2,171,308; Aug. 29.
Kircher, Ralph N., assignor to West Bend Aluminum Company, West Bend, Wis. Serving oven. 2,170,904; Aug. 29.
Kirkpatrick, Willis B., Scarsdale, N. Y. Tree band. 2,170,822; Aug. 29.
Kislingbury, Fredray H., assignor to E. E. Dopyera, Los Angeles, Calif. Musical instrument. 2,171,430; Aug. 29.
Klavik Miloš, Koprivnice, Czechoslovakia. Streamline body for motor vehicles with air-cooled rear engines. 2,171,091; Aug. 29.
Klavik Miloš, Koprivnice, Czechoslovakia. Streamline body for motor vehicles with air-cooled rear engines. 2,171,092; Aug. 29.
Kliesrath, Victor W., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control. 2,170,905; Aug. 29.
Klima, Rudolf, Salzburg, and P. Pellischek, Vienna, Austria. Adaptable rail trolley. 2,171,093; Aug. 29.
Kline, Oliver; et al. (See Palmer, Frank D., assignor.)
Klingelnberg, W. Ferd., Sölne. (See Schlicht, Heinrich, assignor.)
Klinkenstein, Gustave, Maplewood, assignor to Maas & Waldstein Company, Newark, N. J. Laminated fabric. 2,171,505; Aug. 29.
Klinkenstein, Gustave, Maplewood, assignor to Maas & Waldstein Company, Newark, N. J. Laminated fabric. 2,171,506; Aug. 29.
Koch, George M., Summit, N. J., assignor by mesne assignments, to Radio Corporation of America, New York, N. Y. Cathode ray electrical measuring device. 2,171,216; Aug. 29.
Kohman, Girard T., Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Condenser. 2,171,127; Aug. 29.
Kollsman, Paul, Stamford, Conn. Miniature lamp instrument illuminator system. 2,171,431; Aug. 29.
Koons, Kenneth D., Salem, Ohio. Instrument holder. 2,171,128; Aug. 29.
Koppitz, Carl G., assignor, by mesne assignments, to Railway & Industrial Engineering Company, Greensburg, Pa. Disconnecting switch. 2,171,182; Aug. 29.
Kreidel, Hans, Wiesbaden, Germany. Metal packing ring for use with screwed pipe joints or couplings. 2,171,217; Aug. 29.
Kriebel, Walter, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Ultra short wave system for two-way communication. 2,171,218; Aug. 29.
Kriegbaum, George M., and C. C. Haas, Richmond, Ind., assignors to International Harvester Company. Tractor attached implement. 2,171,034; Aug. 29.
Krieger, Adam. (See Humphrey, F., and Krieger.)
Krieger, Alvin W., assignor to Cutler-Hammer, Inc., Milwaukee, Wis. Electric snap switch. 2,171,368; Aug. 29.
Krippemdorf Kalculator Company. (See McMaster, Albert L., assignor.)
Kronmiller, Carl G., and H. E. Malone, assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn. Condition responsive switch. 2,171,272; Aug. 29.
Kuhn, George, Takoma Park, Md. Apparatus for treating articles with fluid. 2,171,449; Aug. 29.
Kyrides, Lucas P., Webster Groves, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Hydroxy halogenated benzene derivatives and uses therefor. 2,171,494; Aug. 29.
Kyrides, Lucas P., Webster Groves, Mo., assignor, by mesne assignments, to Monsanto Chemical Company. Ethers of polyhydroxy halogenated phenols. 2,171,495; Aug. 29.
La Bolteaux, Eugene M., Washington, D. C. Counter transfer and clearing mechanism. 2,171,477; Aug. 29.
Laborda, Richard. (See Carreras, J., and Laborda.)
Lamb, Francis X., East Orange, assignor to Weston Electrical Instrument Corporation, Newark, N. J. Maximum demand indicator. 2,171,183; Aug. 29.
Lampton, Glen T., assignor to Aviation Manufacturing Corporation, Williamsport, Pa. Propeller blade. 2,170,865; Aug. 29.
Langley, Thomas W., Osterley, assignor to Tecalemit Limited, Brentford, England. Detecting ice forming conditions, particularly when encountered by aircraft. 2,171,450; Aug. 29.
Lautenschläger, Carl L., and W. Ludwig, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y. Preparing extracts of spleen and liver. 2,171,320; Aug. 29.
Lawson, Axel A., Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J. Machine for operating on shoe parts. 2,170,823; Aug. 29.
Lawton, Chester S., Ridgewood, N. J., assignor to The Western Union Telegraph Company, New York, N. Y. System and apparatus for determining at a distance the angular position of a submarine device. 2,171,156; Aug. 29.
Lee Angular Drill Corporation. (See Lee, Robert E., assignor.)
Lee, Robert E., Coleman, assignor to Lee Angular Drill Corporation, Dallas, Tex. Treating a producing formation. 2,171,416; Aug. 29.
Lees-Bradner Company, The. (See Hawgood, Harvey R., assignor.)
Leemhuis, Johannes C. P., Johannesburg, Transvaal, Union of South Africa, assignor of one-half to H. Shoenhaut, Los Angeles, Calif. Building construction. 2,171,001; Aug. 29.
Le Gall, Jean, Nanterre, France, assignor, by mesne assignments, to American Rezo, Inc., Montclair, N. J. Hollow panel. 2,171,358; Aug. 29.
Leitgebel, Willibald. (See Junker, E., and Leitgebel.)
Lempco Products, Inc. (See McGovern, E. M., and Shrick, assignors.)
Lengyel, Carl H., Kenmore, N. Y. Furnace. 2,171,002; Aug. 29.
Lepper, Walter W. (See Tennehill, Vernon L., assignor.)
Leverenz, Humboldt W., Collingswood, N. J., assignor to Radio Corporation of America. Luminescent material. 2,171,145; Aug. 29.
Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,170,927; Aug. 29.
Levin, Nils D., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,170,928; Aug. 29.
Lewis, Charles H. (See Urbain, O. M., and Stemen, assignors.)
Lichtenwalner, Jay Y., San Diego, assignor to Pacific Scientific Company, San Francisco, Calif. Propellor protractor. 2,170,824; Aug. 29.
Limited Company formerly The Skodaworks Plzen. (See Tschauner, Leo, assignor.)
Linde Air Products Company, The. (See Shorter, Albert E., assignor.)
Lindenblad, Nils E., Port Jefferson, N. Y., assignor to Radio Corporation of America. High-voltage generator. 2,171,242; Aug. 29.
Link-Belt Company. (See Allen, Harold F., assignor.)
Linzell, Harry K., Ingleside, assignor to United States Gypsum Company, Chicago, Ill. Board joint reinforcement. 2,171,210; Aug. 29.
Livoti, Joseph, Roseville, Calif. Can and insertible pouring spout. 2,171,094; Aug. 29.
Loder, Donald J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Propionic acid synthesis. 2,170,825; Aug. 29.
Lodewick, Madeleine and M., New York, N. Y. Educational device. 2,170,971; Aug. 29.
Lodewick, Mildred. (See Lodewick, Madeleine and M.)
Longfellow, Melvin E. (See McNeil, C. I., and Longfellow.)
Löpp, Edmund H. (See Jonker, J. L. H., Löpp, and van Overbeek.)
Lord & Taylor. (See Martin, Catherine H., assignor.)
Lowe, Russell E. (See Morgan, J. D., and Lowe.)
Luce, Willis F., San Francisco, and C. C. Kennedy, Palo Alto, Calif., assignors to Owens-Illinois Pacific Coast Company. Shipping container. 2,171,309; Aug. 29.
Ludwig, Willy. (See Lautenschläger, C. L., and Ludwig.)
Lyon, James, San Diego, Calif. Air filter and medicator for poultry hovers and the like. 2,171,400; Aug. 29.
Maas & Waldstein Company. (See Klinkenstein, Gustave, assignor.)
Maatschappij van Berkel's Patent N. V. (See van Berkel, Wilhelmus A., assignor.)
Mabon, Carl R., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y. Strip feeding and aligning mechanism. 2,171,003; Aug. 29.
Macdonald, George C., Boston, assignor to Megowen-Educator Food Company, Cambridge, Mass. Display rack. 2,171,035; Aug. 29.
Macdonald, James A., London, England. Producer gas plant. 2,171,184; Aug. 29.
Madden, Frank, Earlville, Ill. Rake attachment for cultivators. 2,171,451; Aug. 29.
Madill Alfred L., Vancouver, British Columbia, Canada. Tamping plug. 2,170,929; Aug. 29.
Magnesium Development Corporation. (See Michel, Joseph M., assignor.)

Malinken, Werner, Blankenfelde, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Tuning indicator for radio receivers. 2,171,129; Aug. 29.
Mahurin, Vinton, Novinger, Mo. Planter. 2,171,037; Aug. 29.
Maier, Friedrich E., Berlin-Charlottenburg, Germany. Longitudinal spring for telescopic tubular guides. 2,171,185; Aug. 29.
Makins, Thomas C., assignor to Ruston & Hornsby, Limited, Lincoln, England. Filter or strainer. 2,171,004; Aug. 29.
Malhiot, Clarence J. (See Milmore, M. J., and Malhiot.)
Malone, Homer E. (See Kronmiller, C. G., and Malone.)
Malter, Louis, Nutley, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. High frequency condenser. 2,171,219; Aug. 29.
Marcus, Nathan, Union City, N. J. Hot water heater. 2,171,369; Aug. 29.
Markley, George E., Cleveland Heights, Ohio. Material processing apparatus. 2,171,340; Aug. 29.
Marshall & Ilsley Bank. (See Thompson, Walter S., assignor.)
Martin, Adrian, New York, N. Y. Automatic time switch clock. 2,171,370; Aug. 29.
Martin, Catherine H., Westport, Conn., assignor to Lord & Taylor, New York, N. Y. Sweater. 2,171,220; Aug. 29.
Martin, Herbert E., Cumberland, Md., assignor to Celanese Corporation of America. Treating anhydrides. 2,170,972; Aug. 29.
Martindale, Alpheus R., Cambridge City, Ind. Separable hinge. 2,171,038; Aug. 29.
Marx, Louis, & Company. (See Bonnett, J., and Schillace, assignors.)
Masters, Edwin L., Chicago, Ill. Plant setter. 2,171,067; Aug. 29.
Masters, Edwin L., Chicago, Ill. Cart. 2,171,068; Aug. 29.
Mathews, Verner P., Flint, assignor to General Motors Corporation, Detroit, Mich. Pivotal joint. 2,171,157; Aug. 29.
Mathot, Suzanne R. (See Dalotel, Maurice A., assignor.)
Maus, Albert C., St. Louis, Mo., assignor to Roesch Porcelain Construction, Inc., Belleville, Ill. Supporting structure for porcelain enameled pans. 2,171,221; Aug. 29.
Maxson, Louis A., Claremont, N. H., assignor to Sullivan Machinery Company. Method and apparatus for size reduction. 2,171,515; Aug. 29.
McAdams, Harry, assignor to Nolde and Horst Company, Reading, Pa. Seamless knitted stocking and producing same. 2,171,452; Aug. 29.
McAllister, Franklin, Flushing, N. Y. Internal expansion stopper. 2,170,866; Aug. 29.
McCann, John F., Longmeadow, assignor to Baldwin-Duckworth Chain Corporation, Springfield, Mass. Speed reducing mechanism. 2,171,158; Aug. 29.
McCoy, James R., Jersey City, assignor of three-fourths to W. J. Bigley, Hoboken, N. J. Speed control mechanism for automotive vehicles. 2,171,401; Aug. 29.
McCoy, William C. (See Breth, W. J., and McCoy.)
McGovern, Edward M., and P. Schrick, Newark, N. J., assignors to Lempco Products, Inc., Bedford, Ohio. Crankshaft grinding tool. 2,171,417; Aug. 29.
McKesson, Lewis J., Port Jefferson, N. Y., assignor to Radio Corporation of America. Frequency control system. 2,171,243; Aug. 29.
McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Fan casing. 2,171,341; Aug. 29.
McMahan, Kenton D., Schenectady, N. Y., assignor to General Electric Company. Fan casing. 2,171,342; Aug. 29.
McMaster, Albert L., Revere, Mass., assignor to Krippendorf Kalculator Company, Portland, Maine. Rating and recording cutting operations. 2,170,826; Aug. 29.
McNally, James G., J. B. Dickey, and W. H. Zugschwerdt, assignors to Eastman Kodak Company, Rochester, N. Y. Azo compounds and coloring therewith. 2,171,159; Aug. 29.
McNeil, Charles I., Bloomfield, and M. E. Longfellow, Newark, assignors to Eclipse Aviation Corporation, East Orange, N. J. Speed-responsive device. 2,171,005; Aug. 29.
McVicar, Leonard E. M. (See Trollope, W. A. C., and McVicar.)
Mead, Daniel M. (See Ryan, R. W., Mead, and Phillips.)
Mead, Harold B., Ilford, England. Expanding shoe mechanism. 2,171,186; Aug. 29.
Meakin, Edgar N., San Francisco, Calif. Mechanism for molding material. 2,171,039; Aug. 29.
Megowen-Educator Food Company. (See Macdonald, George C., assignor.)
Meigs, Frederick M., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Pellicle and preparing same. 2,170,828; Aug. 29.
Meigs, Frederick M., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Film and preparing same. 2,170,829; Aug. 29.
Meiners, Henry, Township 14, Whitman County, Wash. Plant husbandry apparatus. 2,171,160; Aug. 29.
Mejer, Walther. (See Kiesskalt, S., and Mejer.)
Merchant & Merchant. (See Peltier, William J., assignor.)
Merrifield, John D., Rocky Ford, Colo. Bag-closing apparatus. 2,171,130; Aug. 29.
Merritt, Richard S., Charleston, S. C., and F. Keller, New Kensington, assignors to Aluminum Company of America, Pittsburgh, Pa. Composite sheet metal body and producing the same. 2,171,040; Aug. 29.
Mertè, Willy, assignor to the firm Carl Zeiss, Jena, Germany. Telephotographic objective. 2,171,274; Aug. 29.
Mertz, August A., Richmond Hill, assignor to P. L. Andrews Corporation, Brooklyn, N. Y. Collapsible display carton. 2,170,906; Aug. 29.
Metzger, William J., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Car coupler. 2,170,907; Aug. 29.
Metzger, William J., assignor to National Malleable and Steel Castings Company, Cleveland, Ohio. Coupler shank and yoke connection. 2,170,908; Aug. 29.
Meyer, Charles, Yonkers, assignor to Bartman & Bixer Inc., New York, N. Y. Sewing machine. 2,170,948; Aug. 29.
Meyer, Georg, Hanover, Germany. Preparation of salts of cellulose ether carboxylic acids. 2,171,222; Aug. 29.
Meyers, Sidney E., Lockport, assignor to Control Equipment Corporation, Buffalo, N. Y. Consistency control device. 2,171,312; Aug. 29.
Michel, Josef M., Bitterfeld, Germany, assignor, by mesne assignments, to Magnesium Development Corporation. Flux for welding magnesium and magnesium alloys. 2,171,041; Aug. 29.
Michle Printing Press and Manufacturing Company. (See Wilkinson, William J., assignor.)
Miller, Kay, New Brunswick, assignor to Joseph Dixon Crucible Company, Jersey City, N. J. Pencil. 2,170,867; Aug. 29.
Miller, Theodore C., New York, N. Y. Coffee-making apparatus. 2,171,321; Aug. 29.
Milling, James H., Dallas, Tex. Stick file. 2,171,453; Aug. 29.
Millner, Clincie W., Norfolk, Va. Dustpan. 2,171,187; Aug. 29.
Milmoe, Michael J., Glen Ellyn, and C. J. Malhiot, Oak Park, assignors to F. B. Redington Co., Chicago, Ill. Carton and article feeding mechanism. 2,171,131; Aug. 29.
Milosis, Phokion C. (See Zaccaro, F., and Milosis.)
Miner's, Inc. (See Julius, Arthur D., assignor.)
Minich, Verne E., Scarsdale, N. Y., assignor to The American Foundry Equipment Company, Mishawaka, Ind. Abrasive throwing machine. 2,170,831; Aug. 29.
Minich, Verne E., Scarsdale, N. Y., assignor to The American Foundry Equipment Company, Mishawaka, Ind. Abrasive throwing machine. 2,170,832; Aug. 29.
Minkow, Julius M., New York, assignor to R. Minkow, Richmond Hill, N. Y. Wire feed mechanism. 2,170,830; Aug. 29.
Minkow, Robert. (See Minkow, Julius M., assignor.)
Minneapolis-Honeywell Regulator Company. (See Cunningham, Lewis L., assignor.)
Minneapolis-Honeywell Regulator Company. (See Kronmiller, C. G., and Malone, assignors.)
Minton, Clarence S., Laurel, Miss. Vehicle stand and guard. 2,171,042; Aug. 29.
Mitchell, Lewis E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,171,043; Aug. 29.
Mitchell, Lewis E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,171,161; Aug. 29.
Mitchell, Lewis E., Columbus, Ohio, assignor to The Jeffrey Manufacturing Company. Mining machine. 2,171,162; Aug. 29.
Molins Machine Company. (See Chalmers, John W., assignor.)
Molins Machine Company. (See Ruan, Félix F., assignor.)
Money, Roland H., assignor to The Crosley Corporation, Cincinnati, Ohio. Breaker strip and fitting. 2,171,036; Aug. 29.
Monsanto Chemical Company. (See Harman, Marion W., assignor.)
Monsanto Chemical Company. (See Kyrides, Lucas P., assignor.)
Montelius, Carl O. J., assignor to Aktiebolaget Imo-Industri, Stockholm, Sweden. Hydraulic rotary engine. 1,171,146; Aug. 29.
Moore, Garnett Y. (See Coleman, G. H., and Moore.)
Moore, George L., and J. R. Steele, Owego, N. Y. Fastening device. 2,171,163; Aug. 29.
Moren, Theodore, Chicago, Ill. Game. 2,170,909; Aug. 29.
Morgan, Edward B., Philadelphia, Pa. Shoehorn. 2,171,310; Aug. 29.
Morgan, John D., South Orange, N. J., and R. E. Lowe, New York, N. Y., assignors to Power Patents Company, Hillside, N. J. Manufacture of ceramic tubing. 2,171,006; Aug. 29.
Morgan, Leslie B. (See Habgood, B. J., and Morgan.)
Morgan, Willard L., Hammond, Ind., assignor to Sylvania Industrial Corporation, Fredericksburg, Va. Preparing adhesive sheets. 2,170,949; Aug. 29.
Morisi, John. (See Holzknecht, Felix, assignor.)
Morris, Charles E., Newport News, Va. Binding device and pencil support. 2,171,188; Aug. 29.
Morrison, John R., Hudson, Ohio. Heating unit. 2,171,275; Aug. 29.

Moses, Joseph, Toronto, Ontario, Canada. Ear and mouth telephone attachment. 2,171,311; Aug. 29.
Mosler Safe Company, The. (See Bremer, Frederick J., assignor.)
Moullin, Eric B., Oxford, England, assignor to Radio Corporation of America. Radio aerial. 2,171,256; Aug. 29.
Mowry, Edward. (See Crumb, C. F., and Mowry.)
Moyle, Clarence L., assignor to The Dow Chemical Company, Midland, Mich. Di-phenyl mono-ortho-chlorphenyl phosphite. 2,170,833; Aug. 29.
Mueller Co. (See Cline, Earl E., assignor.)
Muir, Raymond F., assignor of one-half to W. P. Strait, Grand Valley, Pa. Fluid well flowing means. 2,171,402; Aug. 29.
Muldoon, Bernard F., Mountain View, N. J., assignor to H. Hyman, Brooklyn, N. Y. Christmas tree decoration. 2,171,116; Aug. 29.
Müller, Otto. (See Bartels, H., and Müller.)
Müller, Willy. (See Hipple, Hermann, assignor.)
Muñoz, Luis, Santiago, Chile. Attachment to typewriter keys. 2,171,470; Aug. 29.
Murray, William W. (See Downey, J. J., and Murray.)
N. V. Actrooien Maatschappy "Activit". (See Smit, Pieter, assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Cornelius, Peter H. K. G., assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Jonker, J. L. H., Löpp, and van Overbeek.)
N. V. Philips' Gloeilampenfabrieken. (See Schoonenberg, Pancras, assignor.)
N. V. Philips' Gloeilampenfabrieken. (See Schreinemachers, Willem J. H., assignor.)
Nachod & United States Signal Co., et al. (See Richterkessing, Frank H., assignor.)
Nardone, Romeo M., assignor to Eclipse Aviation Corporation, East Orange, N. J. Internal combustion engine. 2,171,257; Aug. 29.
National Carbon Company. (See Hopkins, Howe H., assignor.)
National Colortype Company, The. (See Ryder, Charles D., assignor.)
National Lead Company. (See Barton, Louis E., assignor.)
National Lead Company. (See Dahlstrom, Roy, assignor.)
National Malleable and Steel Castings Company. (See Bazeley, Arthur J., assignor.)
National Malleable and Steel Castings Company. (See Hobson, Roy C., assignor.)
National Malleable and Steel Castings Company. (See Metzger, William J., assignor.)
National Pneumatic Company. (See Parvin, Edward G., assignor.)
Neill, Robert L., Birmingham, England, assignor to Bendix Aviation Corporation, Chicago, Ill. Control of motor vehicle clutches. 2,170,868; Aug. 29.
Nelsen, Marvin, and T. Obszarny, assignors to Guardian Electric Manufacturing Co., Chicago, Ill. Switch. 2,171,044; Aug. 29.
Neracher, Carl A., and W. T. Dunn, Detroit, assignors to Chrysler Corporation, Highland Park, Mich. Power transmission. 2,170,869; Aug. 29
Newhouse, Ray C., Wauwatosa, assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Calcining lime. 2,171,507; Aug. 29.
Nichols, Daniel R., Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y. Sliding door. 2,170,870; Aug. 29.
Niemann, George F., Chicago, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Dustproof fixture. 2,170,871; Aug. 29.
Nixon, Jeddy D., assignor of one-half to Wilson Supply Company, Houston, Tex. Flowing fluids under pressure. 2,171,478; Aug. 29.
Nixon, Jeddy D., assignor of one-half to Wilson Supply Company, Houston, Tex. Flow device. 2,171,480; Aug. 29.
Nixon, Jeddy D., assignor of one-half to Wilson Supply Company, Houston, Tex. Well packer. 2,171,479; Aug. 29.
Nixon Nitration Works. (See Orsini, Camillo, assignor.)
Nolde and Horst Company. (See McAdams, Harry, assignor.)
Norelius, Emil F., Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis. Tractor. 2,171,508; Aug. 29.
Norris, Edward O., Inc. (See Norris, Edward O., assignor.)
Norris, Edward O., Port Chester, assignor to Edward O. Norris, Inc., New York, N. Y. Metal half tone screen. 2,171,276; Aug. 29.
North, Frank G., Inc. (See Smith, Robert B., assignor.)
Novotny, Emil E., Oak Lane, assignor to Durite Plastics, Incorporated, Philadelphia, Pa. Resins from phenolic compositions and esters of anacardic acid. 2,170,950; Aug. 29.
Nydegger, Roland R., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Crimping device. 2,171,371; Aug. 29.
Obszarny, Theodore. (See Nelsen, M., and Obszarny.)
Ohio Rubber Company, et al. (See Winegar, E. M., and Dawes, assignors.)
Ohsman, Edward, New York, N. Y. Fur dyeing. 2,171,277; Aug. 29.
Ohstrom, Harry A., Detroit, Mich. Detachable repair shoe heel member. 2,171,045; Aug. 29.
Oil Well Supply Company. (See Greve, Edgar E., assignor.)
Oil Well Supply Company. (See Ravanelli, Bennett H., assignor.)
Olesvary, Louis, McClelland Town, Pa. Car coupling. 2,171,343; Aug. 29.
Olsen, John C., assignor to Flexible Steel Lacing Company, Chicago, Ill. Belt fastener. 2,170,973; Aug. 29.
Orscheln, Albert, Moberly, Mo. Brake mechanism. 2,171,403; Aug. 29.
Orsini, Camillo, Highland Park, assignor to Nixon Nitration Works, Nixon, N. J. Extrusion apparatus for obtaining luster, color, pattern, and complicated shape effects on articles formed of plastic material. 2,171,095; Aug. 29.
Othmer, Donald F., Brooklyn, N. Y., assignor to Tennessee Eastman Corporation, Kingsport, Tenn. Dehydration of lower fatty acids with ketones and ethers. 2,170,834; Aug. 29.
Ostruk, Paul, New York, N. Y. Combination lifting jack and wheel locking arrangement for automobiles or like vehicles. 2,170,910; Aug. 29.
Otterbacher, Theodore J., Zion City, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y. Food compound. 2,171,244; Aug. 29.
Owens-Illinois Pacific Coast Company. (See Luce, W. F., and Kennedy, assignors.)
Oxford Varnish Corporation. (See Hamant, Edward W., assignor.)
Pacific Scientific Company. (See Lichtenwalner, Jay Y., assignor.)
Paine, James M., Harlingen, Tex. Revolving hoist. 2,171,404; Aug. 29.
Palmer, Frank D., assignor of one-third to O. Kline, and one-third to C. Spray, Chicago, Ill. Carton machine and forming cartons. 2,171,418; Aug. 29.
Pan American Airways Corporation. (See Winter, Charles W., Jr., assignor.)
Paper Patents Company. (See Henderson, Charles L., assignor.)
Park, Jesse W., Los Angeles, Calif. Top construction. 2,171,046; Aug. 29.
Parkins, Wright A., West Hartford, assignor to United Aircraft Corporation, East Hartford, Conn. Two-stage supercharger. 2,170,974; Aug. 29.
Parvin, Edward G., Roselle, N. J., assignor to National Pneumatic Company, New York, N. Y. Combined carburetor and fume eliminator innerlock for internal combustion engines. 2,171,291; Aug. 29.
Pass Book and Check Cover Company, The. (See Humphrey, F., and Krieger, assignors.)
Patent and Licensing Corporation, The. (See Eckert, Clarence R., assignor.)
Patent and Licensing Corporation, The. (See Wright, William R., Jr., assignor.)
Paterson, Thomas W., Aigburth, Liverpool, England. Transmission apparatus. 2,170,930; Aug. 29.
Pearce, John W. B., Toledo, Ohio. Universal joint. 2,171,313; Aug. 29.
Pearson, George. (See Gates, A. O., and O. H. and G. Pearson.)
Pearson, Otto H. (See Gates, A. O., and O. H. and G. Pearson.)
Pearson, Paul E., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y. Method and apparatus for lining crown caps. 2,171,258; Aug. 29.
Pearson, Thomas F., Pontefract, England, assignor to Crown Cork & Seal Company, Inc., New York, N. Y. Apparatus for feeding molten glass. 2,171,096; Aug. 29.
Peck, Cortez E., Beaumont, Tex. Mechanical fish-luring device. 2,171,372; Aug. 29.
Peebles, David D., Eureka, Calif. Extracting carotinoids. 2,170,872; Aug. 29.
Pellischek, Paul. (See Klima, R., and Pellischek.)
Peltier, William J., assignor of one-third to Merchant & Merchant, Minneapolis, Minn. Method of and apparatus for controlled air conditioning. 2,171,147; Aug. 29.
People of the United States of America, Dedicated to the free use of the. (See Thompson, Clifford J., assignor.)
Peoples Finance and Thrift Company of Bakersfield. (See Ackley, Sherman G., assignor.)
Percival, William S., Ealing, London, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England. Superregenerative receiver. 2,171,148; Aug. 29.
Perkins, Edwin A., et al. (See Crum, Roland R., assignor.)
Perkins, Ralph P. (See Coleman, G. H., and Perkins.)
Permutit Company, The. (See Pick, Eric, assignor.)
Perry, John R., assignor to F. W. Coffing and R. R. Bookwalter, doing business as the Coffing Hoist Co., Danville, Ill. Continuous power eccentric dual gear speed reducer. 2,170,951; Aug. 29.
Persons, Lawrence M., assignor, by mesne assignments, to Automatic Control Corporation, St. Louis, Mo. Bimetallic strip. 2,171,344; Aug. 29.
Peters, Louis. (See Hastert, Edouard, assignor.)
Peterson, Arthur L., Indianapolis, Ind., assignor to The Geo. F. Cram Company. Terrestrial globe mounting. 2,171,509; Aug. 29.
Petroleum Processes Corporation. (See Tears, Claude F., assignor.)
Petrolite Corporation. (See Blair, Charles M., Jr., assignor.)

Petrone, Joseph A. (See Hellman, J., Keyes, and Petrone.)
Philco Radio and Television Corporation. (See Barry, Gerald J., assignor.)
Phillips, Orley O. (See Ryan, R. W., Mead, and Phillips.)
Phillips Petroleum Company. (See Christian, Jean E., assignor.)
Phillips Petroleum Cmpany. (See Steele, Francis E., assignor.)
Philstan Products Company. (See Roadfuss, John P., assignor.)
Pick, Eric, assignor to The Permutit Company, New York, N. Y. Water-treating apparatus. 2,170,975; Aug. 29.
Pickering, Benjamin D., Pomona, Calif. Signal device. 2,171,481; Aug. 29.
Pieper, Alphonse F., Brighton, N. Y. Fluid control device. 2,171,292; Aug. 29.
Pier, Mathias, Heidelberg, and W. Simon, R. Becker, and F. Stoewener, Ludwigshafen-on-the-Rhine, Germany, assignors to Standard-I. G. Company, Linden, N. J. Production of hydrocarbon products by thermal treatment of materials containing carbon. 2,170,976; Aug. 29.
Piron, Emil H., assignor, by mesne assignments, to Transit & Research Corporation, New York, N. Y. Truck and swing bolster construction. 2,171,069; Aug. 29.
Plastino, Rubino, New York, N. Y., assignor to Transoceanic Aerial Control System, Inc., Wilmington, Del. Radio navigational guide system. 2,171,293; Aug. 29.
Platter, Charlie E. and O. R., North Vernon, Ind. Chair. 2,171,189; Aug. 29.
Platter, Orval R. (See Platter, Charles E. and O. R.)
Polston, John R., Tulsa, Okla. Automatic check and shut-off valve. 2,171,190; Aug. 29.
Porter, Ella M., Shaker Heights, Ohio. Combination storm and screen sash. 2,171,454; Aug. 29.
Potter, Albert T., assignor to Ainsworth Manufacturing Company, Detroit, Mich. Windshield frame structure. 2,171,191; Aug. 29.
Power Patents Company. (See Morgan, J. D., and Lowe, assignors.)
Powers, Ralph A., Grosse Pointe, assignor to Electronic Control Corporation, Detroit, Mich. Smoothness gauge. 2,171,433; Aug. 29.
Price, Arnold F., Hartsdale, assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y. Electrical system. 2,170,873; Aug. 29.
Prickett, Clyde W., Los Angeles, and B. L. Wilcox, Huntington Park, Calif. Nailing plug. 2,171,097; Aug. 29.
Purdy, Charles F. (See Jandus, H. S., and Purdy.)
Quality Hardware & Machine Corporation. (See Guze, Emil B., assignor.)
Rabezzana, Hector, Flint, assignor to General Motors Corporation, Detroit, Mich. Spark plug. 2,171,164; Aug. 29.
Rabezzana, Hector, Flint, assignor to General Motors Corporation, Detroit, Mich. Shielded spark plug. 2,171,165; Aug. 29.
Radio Corporation of America. (See Banks, George B., assignor.)
Radio Corporation of America. (See Dalpayrat, Henry F., assignor.)
Radio Corporation of America. (See Erichsen, Ruth J., assignor.)
Radio Corporation of America. (See Jones, Robert B., assignor.)
Radio Corporation of America. (See Koch, George M., assignor.)
Radio Corporation of America. (See Leverenz, Humboldt W., assignor.)
Radio Corporation of America. (See Lindenblad, Nils E., assignor.)
Radio Corporation of America. (See Multer, Louis, assignor.)
Radio Corporation of America. (See McKesson, Lewis J., assignor.)
Radio Corporation of America. (See Moullin, Eric B., assignor.)
Radio Corporation of America. (See Rose, Albert, assignor.)
Radio Corporation of America. (See Schade, Otto H., assignor.)
Radio Corporation of America. (See Shelby, Robert E., assignor.)
Radio Corporation of America. (See Wamsley, Delos H., assignor.)
Radio Corporation of America. (See Wright, George M., assignor.)
Ragland, Chester A., Jr. (See Ragland, Chester A., Sr., C. A., Jr., and G. G.)
Ragland, Chester A., Sr., C. A., Jr., and G. G., Louisburg, N. C.; said C. A. Ragland, Sr., assignor to said C. A. and G. G. Ragland. Earth working apparatus. 2,171,098; Aug. 29.
Ragland, George G. (See Ragland, Chester A., Sr., C. A., Jr., and G. G.)
Ragsdale, Earl J. W., Norristown, and A. G. Dean, Narberth, assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Beam-type housing structure. 2,171,434; Aug. 29.
Raible, Charles G., Shaker Heights, assignor, by mesne assignments, to The Sentry Stop-A-Draft Co., Cleveland, Ohio. Draft eliminator. 2,171,070; Aug. 29.
Railway & Industrial Engineering Company. (See Köppitz, Carl G., assignor.)
Raulerson, Hardy H., Long Beach, Calif. Wind motor. 2,170,911; Aug. 29.
Ravanelli, Bennett H., Greggton, assignor to Oil Well Supply Company, Dallas, Tex. Apparatus for disconnecting pumping apparatus from a beam. 2,171,192; Aug. 29.
Ray, Clalmer W., Detroit, Mich. Smoking pipe cleaning device. 2,171,314; Aug. 29.
Raytheon Manufacturing Company. (See Crout, Prescott D., assignor.)
Raze, Douglas D., Robbinsdale, Minn. Power and steering mechanism. 2,171,294; Aug. 29.
Redington, F. B., Co. (See Mimole, M. J., and Malhiot, assignors.)
Reed & Barton. (See Rivard, Charles A., assignor.)
Rennerfelt, Ivar, Djursholm, Sweden. Destroying insects and micro-organisms. 2,171,315; Aug. 29.
Research Corporation. (See de Forest, Alfred V., assignor.)
Rice, Louis E., Washington, Pa. Glass-engraving machine. 2,171,007; Aug. 29.
Richardson, Holden C., Washington, D. C., and H. Kampf, New York, N. Y. Heat exchange apparatus. 2,171,047; Aug. 29.
Richterkessing, Frank H., assignor to Cheatham Electric Switching Device Co., Incorporated, and Nachod & United States Signal Co., Incorporated, Louisville, Ky. Vehicle-controlled selective system. 2,171,278; Aug. 29.
Rivard, Charles A., Providence, R. I., assignor to Reed & Barton, Taunton, Mass. Hot liquid container. 2,171,322; Aug. 29.
Roadfuss, John P., assignor to Philstan Products Company, Philadelphia, Pa. Slider for hookless fasteners. 2,171,455; Aug. 29.
Roberts, William S., Anderson, Ind. Engine choke. 2,171,008; Aug. 29.
Robinson, Roy H., Chicago, Ill. Racket for tennis and batting games and manufacturing same. 2,171,223; Aug. 29.
Rockola, David C., Chicago, and A. Vischer, Jr., Park Ridge, Ill.; said Vischer assignor to said Rockola. Parking meter. 2,171,345; Aug. 29.
Rockwell, Ronald J., assignor to The Crosley Corporation, Cincinnati, Ohio. Circuits for more nearly perfect sound reproductions. 2,171,048; Aug. 29.
Roesch Porcelain Construction, Inc. (See Maus, Albert C., assignor.)
Rogers, Harold G. (See Waite, G., and Rogers.)
Röhm & Haas Company. (See Bruson, Herman A., assignor.)
Rolph, Thomas W., Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y. Luminaire. 2,170,912; Aug. 29.
Rosch, Arthur, Brieselang, near Nauen, Osthavelland, Germany, assignor to General Electric Company. Power plant. 2,171,346; Aug. 29.
Rose, Albert, East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Cathode ray tube. 2,171,224; Aug. 29.
Rosenberg, Stig E., Brockton, Mass. Perforating machine. 2,171,482; Aug. 29.
Rosenwald, Moses, Brooklyn, N. Y., and L. Ekes, Lwow, Poland. Siphon valve stopper for bottles. 2,171,373; Aug. 29.
Rossander, Swanie S. (See Hannum, C. W., and Rossander.)
Rossman, Allen M., Wilmette, Ill. Power transmission. 2,170,838; Aug. 29.
Rostin, Heliodor, and K. Schuster, Berlin, Germany. Oil refining process. 2,171,009; Aug. 29.
Roth, Christian, Zurich, Switzerland. Circuit breaking device for electrical alarm installations. 2,171,245; Aug. 29.
Rothrock, Henry S. (See Underwood, W. F., and Rothrock.)
Rothrock, Henry S., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic pellicles and preparing same. 2,170,839; Aug. 29.
Rothrock, Henry S., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic film and preparing same. 2,170,840; Aug. 29.
Rowe, James W. (See Farmer, E. H., Stevens, and Rowe.)
Rowe, Martin L., assignor to The Gerrard Company, Inc., Chicago, Ill. Car wall anchorage for cargo binders. 2,170,913; Aug. 29.
Ruau, Félix F., assignor to Molins Machine Company, Limited, London, England. Conveyer for feeding articles. 2,171,193; Aug. 29.
Rummler, Rudow, Chicago, Ill. Rigging. 2,170,914; Aug. 29.
Ruston & Hornsby, Limited. (See Makins, Thomas C., assignor.)
Ryan, Rudd W., D. L. Mead, and O. O. Phillips, Birmingham, Ala. Seat and deck construction for stadia. 2,171,374; Aug. 29.
Ryder, Charles D., Covington, assignor to The National Colortype Company, Bellevue, Ky. Multicolored lens. 2,170,874; Aug. 29.
Saklatwalla, Byramji D., Pittsburgh, Pa. Light weight construction steel. 2,171,375; Aug. 29.

Sakurai, Hyosuke, Chita District, Japan. Impulse type rotary crusher. 2,171,100; Aug. 29.

Sampson, Edward J., Calamus, Iowa. Throttle control mechanism. 2,171,456; Aug. 29.

Sanford, Roy S., New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind. Clutch control mechanism. 2,170,875; Aug. 29.

Sargent, William D., New York, N. Y., assignor to Durafer (Inc.), Dover, Del. Welding strip and centrifugal casting. 2,171,405; Aug. 29.

Scanlan, Patrick J., Brooklyn, N. Y. Gas turbine. 2,170,952; Aug. 29.

Schade, Otto H., West Caldwell, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Grid electrode. 2,171,225; Aug. 29.

Schäfer, Hans, Wuppertal-Barmen, Germany. Production of patterned objects from powdered materials and the like. 2,170,931; Aug. 29.

Schemchak, Charles H. (See Kaufman, L. J., and Schemchak.)

Schermerhorn, Howard F. (See Keuffel, A. W., and Schermerhorn.)

Schicht, Heinrich, Huckeswagen, assignor to W. Ferd. Klingelnberg Söhne, Remscheid-Berghausen, Germany. Spiral rolling generating process for bevel gears and apparatus therefor. 2,171,406; Aug. 29.

Schillace, Anthony. (See Bonnett, J., and Schillace.)

Schirm, Eric. (See Schrauth, W., and Schirm.)

Schlumberger Well Surveying Corporation. (See Elliott, Raymond D., assignor.)

Schmidt, Louis C. (See Florea, Manuel, assignor.)

Schneider, Elbert D., Scotia, N. Y., assignor to General Electric Company. Time delay relay. 2,171,347; Aug. 29.

Schneider, Elbert D., Scotia, N. Y., assignor to General Electric Company. Electric valve time delay relay. 2,171,348; Aug. 29.

Schneider, Kurt, and H. Schunck, Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Electric arc furnace. 2,171,435; Aug. 29.

Schneider, Kurt, and H. Schunck, Bitterfeld, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Electric arc furnace. 2,171,436; Aug. 29.

Schoenhaut, Harry. (See Leembuis, Johannes C. P., assignor.)

Schofield, Earl L., assignor to Henney Motor Company, Freeport, Ill. Casket table for hearses. 2,171,071; Aug. 29.

Schoonenberg, Pancras, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Electron discharge device. 2,171,226; Aug. 29.

Schotz, Otto W. (See Dunn, W. T., and Schotz.)

Schrauth, Walther, Berlin-Dahlem, and E. Schirm, Dessau, Germany, assignors, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland. Producing sulphonic acids and salts thereof. 2,171,117; Aug. 29.

Schreinemachers, Willem J. H., assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands. Secondary electron emitter and making it. 2,171,227; Aug. 29.

Schrick, Paul. (See McGovern, E. M., and Schrick.)

Schröter, Hans O. (See Schröter, Kurt and H. O.)

Schröter, Kurt and H. O., Wechmar, Gothaland, Germany. Resilent mounting. 2,171,149; Aug. 29.

Schuetz, Clyde C., and E. B. Burns, assignors to United States Gypsum Company, Chicago, Ill. Random thatch roof construction. 2,171,010; Aug. 29.

Schulz, Alfred J. and H. H., Milwaukee, Wis. Christmas tree stand. 2,171,228; Aug. 29.

Schulz, Herbert H. (See Schulz, Alfred J. and H. H.)

Schumacher, Henry, W. M. Perry, and L. J. De Lanty, assignors to Sperry Products, Inc., Brooklyn, N. Y. Rail thaw detector mechanism. 2,170,977; Aug. 29.

Schunck, Hermann. (See Schenider, K., and Schunk.)

Schur, Milton O., and B. G. Hoos, assignors to Brown Company, Berlin, N. H. Fabric-reinforced artificial leather. 2,171,419; Aug. 29.

Schuster, Ervin A., Freeland, assignor to Freeland Spool and Bobbin Corp., Hazelton, Pa. Pin board. 2,171,101; Aug. 29.

Schuster, Karl. (See Rostin, H., and Schuster.)

Schuyler, Wilton S., Springfield, Ohio. Automatic auto safety circuit breaker. 2,171,457; Aug. 29.

Schweiger, Julius, Budapest, Hungary. Advertising and display device. 2,171,246; Aug. 29.

Schweitzer, Frank J., Orange, Calif. Collar passing pressure stripper. 2,170,915; Aug. 29.

Schweitzer, Frank J., and W. D. Shaffer, Brea, Calif. Rotary collar passing blow-out preventer and stripper. 2,170,916; Aug. 29.

Scott, Clyde, East Orange, N. J. Welding film. 2,171,259; Aug. 29.

Scovill Manufacturing Company. (See Hoffman, Allan C., assignor.)

Seel, Willy, Milan, Italy. Condensation product from p-Dichlorbenzol and sulphuric anhydride and its derivatives. 2,171,166; Aug. 29.

Seidel, Oscar, Louisville, Ky. Duplex machine for blocking and pressing hats. 2,171,102; Aug. 29.

Sentry Stop-A-Draft Co., The. (See Raible, Charles G., assignor.)

Shaffer, William D. (See Schweitzer, F. J., and Shaffer.)

Shawver, William R. (See Grether, E. F., Shawver, and Du Vall.)

Shelby, Robert E., Teaneck, N. J., assignor to Radio Corporation of America. Electronic modulator for constant frequency variable dot transmission. 2,171,150; Aug. 29.

Shell Development Company. (See Boultbee, Arthur H., assignor.)

Shelley, Paul G., assignor to The Dow Chemical Company, Midland, Mich. Treatment of wells. 2,171,011; Aug. 29.

Shorter, Albert E., Sheffield, England, assignor to The Linde Air Products Company, New York, N. Y. Machine for surface hardening metal articles. 2,170,876; Aug. 29.

Shrode, John L., assignor to Alco Valve Company, Incorporated, St. Louis, Mo. Thermostatic control for multipass evaporators. 2,171,407; Aug. 29.

Shultz, Clarence R., Independence, Kans. Card and dice game. 2,171,295; Aug. 29.

Siemens Brothers & Company Limited. (See Humphries, H. E., and Hensler, assignors.)

Siemens & Halske Aktiengesellschaft. (See Kesten, Ulrich, assignor.)

Siemens & Halske, Aktiengesellschaft. (See Strecker, Felix, assignor.)

Silver Globe Corp., The. (See Busi, Mario, assignor.)

Silverman, Charles, Providence, R. I. Tie-holder construction. 2,171,103; Aug. 29.

Simmons, John T., Casper, Wyo., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla. Shoe for oil well packers. 2,171,049; Aug. 29.

Simon, Emil J., assignor to J. S. Simon, New York, N. Y. Navigational system. 2,170,835; Aug. 29.

Simon, Jennie S. (See Simon, Emil J., assignor.)

Simon, Lester S., Larchmont, N. Y. Venetian blind. 2,170,877; Aug. 29.

Simon, Walter. (See Pier, M., Simon, Becker, and Stoewener.)

Simons, Aaron, New York, N. Y. Forming elements from molten metal. 2,171,132; Aug. 29.

Simonton, Albert A., Atlanta, Ga. Golf club. 2,171,483; Aug. 29.

Sinclair Refining Company. (See Downey, J. J., and Murray, assignors.)

Slawson, Edward D., assignor to L. D. Goddeyne, Bay City, Mich. Cutting device for fishermen. 2,171,050; Aug. 29.

Smit, Pieter, assignor to N. V. Actrooien Maatschappij "Activit", Amsterdam, Netherlands. Active carbonaceous materials. 2,171,408; Aug. 29.

Smith, Byron E., deceased, Ketchikan, Alaska; E. C. Wooster, executor. Variable speed dynamo-electric power transmitting and converting device. 2,170,836; Aug. 29.

Smith, Charles E., and C. H. Bruns, Chicago, Ill. Head treating device. 2,171,376; Aug. 29.

Smith, Robert B., assignor to Frank G. North, Inc., Atlanta, Ga. Conditioning-yarn bobbin. 2,171,409; Aug. 29.

Smith, Sam R., South Bend, Ind. Coasting device. 2,170,978; Aug. 29.

Smith, Guy V., Marion, Ind. Overhead door structure. 2,171,194; Aug. 29.

Soc. An. Rolla Traverso & Storace. (See Borsetti, Ermanno, assignor.)

Socony-Vacuum Oil Company. (See Altamura, Mario S., assignor.)

Sonesson, August E., Sandviken, Sweden. Joining the edges of metal bands or the like. 2,171,195; Aug. 29.

Spencer, Walter J., Chicago, Ill. Hose supporter. 2,171,012; Aug. 29.

Sperry, Edward A. (See Christensen, O., and Sperry.)

Sperry Gyroscope Company, The. (See Carlson, Bert G., assignor.)

Sperry Products, Inc. (See De Lanty, Loren J., assignor.)

Sperry Products, Inc. (See Drake, Harcourt C., assignor.)

Sperry Products, Inc. (See Schumacher, H., Perry, and De Lanty, assignors.)

Spiral Locks Limited. (See Deverell, Frederick W. E., assignor.)

Spiselman, Joseph W. (See Downs, C. R., and Spiselman.)

Spots, Nell, Kew Gardens, N. Y. Paper cut-out. 2,170,953; Aug. 29.

Sprague, Hugh B., et al. (See Woodbury, Elias L., assignor.)

Spray, Cranston, et al. (See Palmer, Frank D., assignor.)

Squire, Alfred E., London, England. Filtering device. 2,171,484; Aug. 29.

Standard Alcohol Company. (See Archibald, Francis M., assignor.)

Standard-I. G. Company. (See Pier, M., Simon, Becker, and Stoewener, assignors.)

Standard Oil Company of California. (See Folsom, Leon T., assignor.)

Stange, William J., assignor to Wm. J. Stange Company, Chicago, Ill. Seasoning composition. 2,170,954; Aug. 29.

Stange, William J., Company. (See Stange, William J., assignor.)

Stanton, Samuel J., Chicago, Ill. Dual bathtub control. 2,171,133; Aug. 29.

Steele, Francis E., Shreveport, La., assignor to Phillips Petroleum Company. Pump. 2,171,410; Aug. 29.

Steele, James R. (See Moore, G. L., and Steele.)

Stein, A., & Company. (See Bullinger, Conrad, assignor.)

Stein, Harry I. (See Gertler, Samuel E., assignor.)

Steiner, Carl, Heilbronn, Germany, assignor to American Lurgi Corporation, New York, N. Y. Manufacturing cast bearings from light metal alloys. 2,171,229; Aug. 29.

Stemen, William R. (See Urbain, O. M., and Stemen.)

Stern, Charles, Jersey City, assignor to Ardco Manufacturing Co., Hoboken, N. J. Rail lubricating device. 2,170,917; Aug. 29.

Steuber, George A., Penfield, N. Y., assignor to Despatch Shops, Inc. Refrigerator car. 2,171,317; Aug. 29.

Stevens, Henry P. (See Farmer, E. H., Stevens, and Rowe.)

Stewart & McGuire, Inc. (See Hoban, Fairfield W., assignor.)

Stinson, George, assignor to Heywood-Wakefield Company, Gardner, Mass. Folding baby carriage. 2,171,013; Aug. 29.

Stirgwolt, Robert W., Bay Village, assignor to Jak-Kraw, Inc. Rocky River, Ohio. Cooking machine. 2,171,510; Aug. 29.

Stoewener, Fritz. (See Pier, M., Simon, Becker, and Stoewener.)

Stonecypher, William E., assignor of one-half to F. L. M. Holding Company, Los Angeles, Calif. Folding paper box. 2,171,051; Aug. 29.

Strait, Wallace P. (See Muir, Raymond F., assignor.)

Strand, Steen. (See Thorp, J. R., and Strand.)

Strang, John M., assignor to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland. Telescope observation instrument. 2,171,360; Aug. 29.

Straubel, Rudolf, Jena, Germany. Optical system for searchlights. 2,170,979; Aug. 29.

Strecker, Felix, assignor to Siemens & Halske, Aktiengesellschaft, Berlin, Germany. Amplifier feedback suppression. 2,170,878; Aug. 29.

Streckfuss, Elmer G., assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio. Time recorder mechanism. 2,171,167; Aug. 29.

Strickland, Horace J., Chicago, Ill. Appliance for correcting bunions. 2,171,247; Aug. 29.

Strike, Nicholas L. (See Gates, A. O., and O. H. and G. Pearson, assignors.)

Strong, Chester F., New York, N. Y. Control for multi-unit power generating systems. 2,170,918; Aug. 29.

Sullivan Machinery Company. (See Maxson, Louis A., assignor.)

Sullivan, Raymond H., Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich. System of converting direct current. 2,171,279; Aug. 29.

Sun Oil Company. (See Heller, Harry, assignor.)

Sunderland, Henry. (See Bigg, H. T., and Sunderland.)

Superior Seal & Stamp Company. (See Christen, Victor H., assignor.)

Surnfer (Inc.) (See Sargent, William D., assignor.)

Sutcliffe, Harry L., Brooklyn, assignor to The Del-Mac Shoe Process Corporation, New York, N. Y. Apparatus for use in making shoes. 2,170,837; Aug. 29.

Svenska Aktiebolaget Bromsregulator. (See Browall, Bert H., assignor.)

Swank, Arthur L., deceased, Detroit, Mich.; N. L. Swank, special administratrix, assignor to Eaton Manufacturing Company, Cleveland, Ohio. Radiator cap assembly. 2,171,168; Aug. 29.

Swank, Nellie L., special administratix. (See Swank, Arthur L.)

Swartz, Guy E., Detroit, Mich. Drive-lock means. 2,171,458; Aug. 29.

Sylvania Industrial Corporation. (See Cornwell, Raph T. K., assignor.)

Sylvania Industrial Corporation. (See Morgan, Willard L., assignor.)

Taunehill, Vernon L., assignor of twenty-five one-hundredths to W. W. Lepper, Fort Wayne, Ind. Apparatus for the electrolytic production of metallic shapes. 2,171,437; Aug. 29.

Tarbell, John C., Springfield, Mass., assignor to Chysler Corporation, Highland Park, Mich. Bolster. 2,170,879; Aug. 29.

Tarbet, Roy E., Portland, Oreg. Connection for continuous structures. 2,171,326; Aug. 29.

Tarbox, John P., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa. Manufacturing tire tread. 2,171,438; Aug. 29.

Tarter, Louis G., Chicago, Ill. Welding shield. 2,171,052; Aug. 29.

Tears, Claude F., Mountain Lakes, N. J., assignor to The Petroleum Processes Corporation, Wichita, Kans. Contact filtration of viscous lubricating oils for decolorization. 2,171,377; Aug. 29.

Tecalemit Limited. (See Langley, Thomas W., assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Berndt, Walter, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Braunschweig, Werner, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hermanspann, Paul, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Hollmann, Hans E., assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Kauffeldt, Alfons, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Kriebel, Walter, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Mahnken, Werner, assignor.)

Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H. (See Urtel, Rudolf, assignor.)

Tennessee Eastman Corporation. (See Othmer, Donald F., assignor.)

Textile Foundation. (See Johnson, Treat B., assignor.)

Thener, Arthur F., assignor to Cupples Company, St. Louis, Mo. Making rubber articles. 2,170,919; Aug. 29.

Thies, Harry A. and M. E., Severna Park, Md. Interchangeable utility bag. 2,170,841; Aug. 29.

Thies, Minna E. (See Thies, Harry A. and M. E.)

Thomas, William D., Lynnfield, Mass, assignor to United Shoe Machinery Corporation, Paterson, N. J. Heel-seat fitting machine. 2,170,842; Aug. 29.

Thomen, Marion, Baltimore, Ohio. Spark plug. 2,171,014; Aug. 29.

Thompson, Clifford J., Washington, D. C., dedicated to the free use of the People of the United States of America. Eyepiece light filter for photometers. 2,171,260; Aug. 29.

Thompson, Walter S., Philadelphia, Pa., assignor, by mesne assignments, to Marshall & Isley Bank, Milwaukee, Wis. Apparatus for and method of sealing wrapped packages. 2,171,459; Aug. 29.

Thorn, Percy M., New Rochelle, N. Y. Sifter closure. 2,170,955; Aug. 29.

Thorp, Joel R., and S. Strand, assignors to The Fulton Company, West Allis, Wis. Vehicle coupling. 2,170,980; Aug. 29.

Thrasher, Leo R., San Jon, N. Mex. Deep well motor pump. 2,171,460; Aug. 29.

Tideman, Carl E., assignor of one-half to V. G. Anderson, Worcester, Mass. Water-cooled wire block. 2,171,461; Aug. 29.

Timmons, John F., Rochester, N. Y. X-ray system. 2,171,134; Aug. 29.

Tingle, John K., Connersville, Ind. Carpet-cleaning machine. 2,171,072; Aug. 29.

Toledo Scale Manufacturing Company. (See Hurt, Samuel N., assignor.)

Tondeur, Rene, assignor to Bowden (Engineers) Limited, London, England. Securing attachment to wire cables. 2,171,280; Aug. 29.

Torines, Torine C., Stockholm, Sweden. Sewing machine table. 2,171,318; Aug. 29.

Torngren, Edel, Grand Rapids, Mich. Walking doll construction. 2,171,281; Aug. 29.

Torrington Manufacturing Company, The. (See Bergevin, C. R., and Halvorsen, assignors.)

Trabold, Frank W., deceased, Detroit, Mich., Detroit Trust Company and I. J. F. Trabold, executors. Frankfurter-forming apparatus. 2,171,196; Aug. 29.

Trabold, Irma J. F., et al., executors. (See Trabold, Frank W.)

Transit Research Corporation. (See Piron, Emil H., assignor.)

Transoceanic Aerial Control System, Inc. (See Plastino, Rubino, assignor.)

Trollope, William A. C. and L. E. M. McVicar, Coogee, near Sydney, New South Wales, Australia. Advertising and display sign. 2,171,462; Aug. 29.

Tschauner, Leo, Brunn, Moravia, assignor to the firm of Limited Company formerly The Skodaworks Plzen, Prague, Czechoslovakia. Hammer crusher with adjustable resilient feed grate. 2,171,463; Aug. 29.

Turrentine, John W., Washington, D. C. Making calcium phosphate products. 2,170,843; Aug. 29.

Underwood, William F., Buffalo, N. Y., and H. S. Rothrock, assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic pellicles and producing same. 2,170,827; Aug. 29.

"Unichem" Chemikalien Handels A.-G. (See Schrauth, W., and Schirm, assignors.)

Union Carbide and Carbon Corporation. (See Jones, Homer W., assignor.)

United Aircraft Corporation. (See Parkins, Wright A., assignor.)

United American Metals Corporation. (See Jordan, C., and Hubelmeyer, assignors.)

United Shoe Machinery Corporation. (See Jorgensen, Bernhardt, assignor.)

United Shoe Machinery Corporation. (See Kamborian, Jacob S., assignor.)

United Shoe Machinery Corporation. (See Lawson, Axel A., assignor.)

United Shoe Machinery Corporation. (See Thomas, William D., assignor.)

United States Gypsum Company. (See Linzell, Harry K., assignor.)

United States Gypsum Company. (See Schuetz, C. C., and Burns, assignors.)

Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Purification of laundry waste. 2,171,197; Aug. 29.

Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Recovering fatty acids. 2,171,198; Aug. 29.

Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Purification of laundry waste. 2,171,199; Aug. 29.

Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Recovering fatty acids. 2,171,200; Aug. 29.

Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Purification of laundry waste. 2,171,201; Aug. 29.

Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Recovering fatty acids. 2,171,202; Aug. 29.

Urbain, Oliver M., and W. R. Stemen, Columbus, assignors to C. H. Lewis, Harpster, Ohio. Purification of organically polluted water. 2,171,203; Aug. 29.

Urbanek, James F., Elmwood Park, Ill. Display counter construction. 2,171,378; Aug. 29.

Urtel, Rudolf, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany. Circuit for amplitude modulation carrier wave. 2,171,151; Aug. 29.

Valls, Frank, et al. (See Carreras, J., assignor, and Laborda.)

Van Berkel, Wilhelmus A., Clarens, Montreux, Switzerland, assignor to Mattschappij van Berkel's Patent N. V., Rotterdam, Netherlands. Vacuum cleaning apparatus. 2,171,248; Aug. 29.

Vanderbilt, Byron M., assignor to Commercial Solvents Corporation, Terre Haute, Ind. Refining rosin. 2,170,956; Aug. 29.

Van der Waals, Hendrik G., and G. E. J. Wiessing, Arnhem, Netherlands, assignors, by mesne assignments, to American Enka Corporation, Wilmington, Del. Treating artificial filaments. 2,171,485; Aug. 29.

Van Fleet, Francis M., Elkhart, Ind. Sealing wax applicator. 2,171,486; Aug. 29.

Van Note, Lillian M., Waukegan, assignor to Fansteel Metallurgical Corporation, North Chicago, Ill. Hardening refractory metals. 2,170,844; Aug. 29.

Van Overbeek, Adrianus J. W. M. (See Jonker, J. L. H., Lopp, and van Overbeek.)

Van Sittert, Paul, Cleveland Heights, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio. Multiple-way valve. 2,171,316; Aug. 29.

Venema, William, Cicero, Ill. Dump truck and loader therefor. 2,170,932; Aug. 29.

Very, William R. M., Philadelphia, Pa. Electrical signaling system and device therefor. 2,171,152; Aug. 29.

Vickers, Harry F., assignor to Vickers, Incorporated, Detroit, Mich. Hydraulic hoisting unit and control system therefor. 2,171,204; Aug. 29.

Vickers, Incorporated. (See Vickers, Harry F., assignor.)

Vilter Manufacturing Company, The. (See Bach, Charles G., assignor.)

Vischer, Alfred, Jr. (See Rockola, D. C., and Vischer.)

Von Bussler, Louis T., Ashton, Md. Notebook. 2,171,411; Aug. 29.

Von Petery, Achim. (See Bode, R., and von Petery.)

Von Pongratz, Emmerich. (See Zetzsche, W., Giesen, and von Pongratz.)

Von Zeppelin, Helmut, Bitterfeld, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Production of reguline beryllium and beryllium alloys. 2,171,439; Aug. 29.

Wagner, Joseph G., assignor to The Wagner Manufacturing Company, Sidney, Ohio. Cooking utensil. 2,170,880; Aug. 29.

Wagner Manufacturing Company, The. (See Wagner, Joseph G., assignor.)

Wahl, Milton H., Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Ammonium nitrate explosive. 2,171,379; Aug. 29.

Waite, George, and H. G. Rogers, assignors to Irving Air Chute Co., Inc., Buffalo, N. Y. Parachute harness release coupling. 2,171,496; Aug. 29.

Walker, Charlie W. (See Bennett, Charles C., assignor.)

Walter, Elise D., Canoga Park, Calif. Vehicle bumper. 2,170,981; Aug. 29.

Walter, Wilfrid C., Arcata, Calif. Vehicle bumper. 2,171,104; Aug. 29.

Wamsley, Delos H., West Caldwell, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y. Insulating coating. 2,171,230; Aug. 29.

Ward, Edgar E. (See Beekman, E. W., Haubursin, and Ward.)

Warden, John B., Harrisburg, Pa., assignor to Barber Asphalt Corporation, Barber, N. J. Pavement. 2,171,153; Aug. 29.

Waterbury Tool Company, The. (See Hodgman, Frederick S., assignor.)

Watson-Stillman Co., The. (See Dinzl, Richard W., assignor.)

Webb, Charles C., assignor to Wheeling Stamping Company, Wheeling, W. Va. Bottle cap or the like. 2,171,015; Aug. 29.

Weber, Charles F. (See Weber, John, Jr., W. F., C. F., and J., Sr.)

Weber, John, Jr., W. F., C. F., and J. Sr., deceased (by J. Weber, Jr., and W. F. Weber, executors), Muscatine, Iowa. Blanking machine. 2,171,464; Aug. 29.

Weber, John, Sr. (See Weber, John, Jr., W. F., C. F., and J., Sr.)

Weber, Walter F. (See Weber, John, Jr., W. F., C. F., and J., Sr.)

Wedge, Cy, Houghton, Mich. Safety device for automatic burners. 2,171,380; Aug. 29.

Weidlich, William A., East Bound Brook, N. J. Grinding mill. 2,171,465; Aug. 29.

Weiss, Ernst. (See Heberlein, G., and Weiss.)

Welding Service, Inc. (See Frickey, Royal E., assignor.)

Welter, Herman C., assignor to The Dawn Mfg. Corp., Rochester, N. Y. Copy holder. 2,171,261; Aug. 29.

Wendt, Bruno. (See Eggert, J., and Wendt.)

Werner, Ralph M., Brooklyn, N. Y. Side wall construction for vehicle bodies. 2,171,381; Aug. 29.

Werner, Wilbur S., Fort Mitchell, assignor to The Kelley Koett Manufacturing Company, Inc., Covington, Ky. Continuous duty X-ray unit. 2,170,933; Aug. 29.

Werts, Richard A., Long Beach, Calif., assignor of one-third to E. B. Hall and one-third to V. P. Baker. Gas anchor. 2,170,881; Aug. 29.

West Bend Aluminum Company. (See Kircher, Ralph N., assignor.)

Western Electric Company. (See Duclos, Aeneas J. N., assignor.)

Western Electric Company. (See Wright, Esmond P. G., assignor.)

Western Union Telegraph Company, The. (See Lawton, Chester S., assignor.)

Westinghouse Electric & Manufacturing Company. (See Bowman, Robert A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Freeman, George A., assignor.)

Westinghouse Electric & Manufacturing Company. (See Gulliksen, Finn M., assignor.)

Westinghouse Electric & Manufacturing Company. (See Gustin, Daniel S., assignor.)

Weston Electrical Instrument Corporation. (See Lamb, Francis X., assignor.)

Wettlaufer, William L., Buffalo, N. Y. Golf club grip and making the same. 2,171,382; Aug. 29.

Wettlaufer, William L., Buffalo, N. Y. Golf club head. 2,171,383; Aug. 29.

Wheeler, Dock R., Lake Charles, La. Fire extinguisher. 2,171,487; Aug. 29.

Wheeling Stamping Company. (See Webb, Charles C., assignor.)

Wheeling Steel Corporation. (See Conner, Guy O., assignor.)

White, Albert F., Toronto, Ontario, Canada. Conveyer. 2,170,934; Aug. 29.

White, Roger, Lynwood, and W. C. Daniels, Huntington Park, Calif.; said Daniels assignor to said White. Fishing rod and ski clamp mad carrier. 2,171,053; Aug. 29.

Whiteley, James, Olcott, N. Y. Amusement device. 2,170,935; Aug. 29.

Wideroe, Marshall S., Northbrook, assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill. Lighting construction. 2,170,882; Aug. 29.

Wiegand, Erich, Berlin-Waldmannlust, assignor to Allgemiene Elektricitats Gesellschaft, Berlin, Germany. Cathode for electron discharge devices. 2,171,249; Aug. 29.

Wiessing, George E. J. (See van der Waals, H. G., and Wiessing.)

Wilcox, Burton L. (See Prickett, C. W., and Wilcox.)

Wiley, Lee M., Marion, Ind., assignor to Delta Electric Company. Electric lantern. 2,171,349; Aug. 29.

Wilkinson, William J., Eastchester, N. Y., assignor of one-half to Miehle Printing Press and Manufacturing Company, Chicago, Ill. Photographic masking. 2,170,883; Aug. 29.

Williams, Ira, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Carbamyl dithio-carbamates. 2,171,420; Aug. 29.

Williams, Ira, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Vulcanization of rubber. 2,171,421; Aug. 29.

Williams, Jack, London, England. Glazing bar. 2,171,319; Aug. 29.

Williams, Louis H., Seattle, Wash. Apparatus for displaying and advertising merchandise. 2,171,054; Aug. 29.

Williamson, Coy N., Carlsbad, N. Mex. Sign. 2,171,016; Aug. 29.

Wilson Supply Company. (See Nixon, Jeddy D., assignor.)

Winegar, Edmund M., Willoughby, and F. L. Dawes, Kent, assignors of one-half to The Ohio Rubber Company, Willoughby, and one-half to The Adamson Machine Company, Akron, Ohio. Press. 2,171,511; Aug. 29.

Winning, Robert K., Wauwatosa, assignor to Chim Manufacturing Company, Milwaukee, Wis. Motor vehicle switch. 2,171,073; Aug. 29.

Winter, Charles W., Jr., Coconut Grove, Fla., assignor to Pan American Airways Corporation, Jersey City, N. J. Telegraph transmitter. 2,170,884; Aug. 29.

Witherow, William P. (See Henderson, Albert, assignor.)

Winthrop Chemical Company. (See Leutenschläger, C. L., and Ludwig, assignors.)

Witt Ice & Gas Co. (See Houghton, Harry S., assignor.)

Wochner, Henry, Rock Island, Ill. Coupling plate for wheel presses. 2,171,282; Aug. 29.

Wochner, Henry, assignor to Bear Manufacturing Company, Rock Island, Ill. Brake testing apparatus for motor vehicles. 2,171,283; Aug. 29.

Woodbury, Elias L., assignor of forty percent to H. B. Sprague and forty percent to C. I. Justheim, Salt Lake City, Utah. Saw file guide. 2,171,169; Aug. 29.

Woodhouse, John C., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Cellulosic structure and preparing same. 2,170,845; Aug. 29.

Wooster, E. C., executor. (See Smith, Bryon E.)

Worden, Robert E., Fairfield, Conn., assignor to Dictaphone Corporation, New York, N. Y. Carton for wax records. 2,171,017; Aug. 29.

Worden, Robert E., Fairfield, Conn., assignor to Dictaphone Corporation, New York, N. Y. Carton for wax records. 2,171,018; Aug. 29.

Wortelmann, Gustave A., Chicago, Ill. Scaffold. 2,171,284; Aug. 29.

Wright, Esmond P. G., London, England, assignor to Western Electric Company, Incorporated, New York, N. Y. Selective switch. 2,170,885; Aug. 29.

Wright, George M., London, England, assignor to Radio Corporation of America. Radio receiver. 2,171,154; Aug. 29.

Wright, William R., Jr., Wharton, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y. Making asbestos-cement shingles. 2,171,155; Aug. 29.

Wurzburg, Reginald, Memphis, Tenn. File case. 2,171,105; Aug. 29.

Wyland, Harry C., Fort Wayne, Ind., assignor to General Cable Corporation, New York, N. Y. Die and method of forming. 2,171,323; Aug. 29.

Yanocsik, Gustave, Brooklyn, N. Y. Vehicle parking device. 2,171,466; Aug. 29.

Young, Fred, West Haven, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del. Blasting assembly. 2,171,384; Aug. 29.

Youngman, John, and H. R. Culp, Whitman County, Wash. Ore grinder. 2,171,296; Aug. 29.

Zaccaro, Frank, and P. C. Milosis, New York, N. Y. Automatic hair waving comb and clamp device. 2,171,422; Aug. 29.

Zahner, Andrew and L. W., Kansas City, Mo. Sheet metal seaming machine. 2,171,297; Aug. 29.

Zahner, Leo W. (See Zahner, Andrew and L. W.)

Zap Development Corporation. (See Zaparka, Edward F., assignor.)

Zaparka, Edward F., assignor to Zap Development Corporation, Baltimore, Md. Airfoil mechanism. 2,170,886; Aug. 29.

Zaparka, Edward F., Coraopolis, Pa., assignor to Zap Development Corporation, Baltimore, Md. Flap device. 2,170,887; Aug. 29.

Zeidler, Reinhold C., Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill. Clutch. 2,171,385; Aug. 29.

Zeiss, Carl. (See Eppenstein, O., and Dietzel, assignors.)

Zeiss, Carl. (See Merté, Willy, assignor.)

Zeiss Ikon Aktiengesellschaft. (See Bartels, H., and Müller, assignors.)

Zeiss Ikon Aktiengesellschaft. (See Clamann, Gerhard, assignor.)

Zerunelth, Rudolph E., New York, N. Y. Safety control. 2,171,467; Aug. 29.

Zetzsche, Walther, Premnitz, and J. Giesen, and E. von Pongratz, Leuna, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany. Manufacture of artificial silk. 2,171,324; Aug. 29.

Zinke, Louis A., De Witt County, Tex. Powder distributing attachment for tractors. 2,171,205; Aug. 29.

Zugschwerdt, Werner H. (See McNally, J. G., Dickey, and Zugschwerdt.)

Zupnyk, William, Philadelphia, Pa. Hair-fastening device. 2,171,019; Aug. 29.

LIST OF REISSUE INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Air release mechanism for dispensing apparatus. C. P. Griffith. Re. 20,186; Aug. 29.
Can feeding means, Centrifugal. E. P. La Bounty. Re. 20,188; Aug. 29.
Clipping device. I. Stein. Re. 20,192; Aug. 29.
Garment. A. R. Fitch. Re. 20,184; Aug. 29.
Rail construction, Highway guard. W. R. Baxter. Re. 20,182; Aug. 29.
Reflection shooting procedure for the accurate determination of dip. L. W. Blau. Re. 20,192; Aug. 29.
Refrigerating apparatus. O. I. Price. Re. 20,189; Aug. 29.
Knitting machine for drop-stitch work, Circular. J. H. Rice. Re. 20,190; Aug. 29.
Road construction. F. G. Small. Re. 20,191; Aug. 29.
Separating system and method. J. E. Fulweiler. Re. 20,185; Aug. 29.
Spray, Dental cleaning. W. J. Hooper. Re. 20,187, Aug. 29.

LIST OF DESIGN INVENTIONS

Air conditioner. H. Schechtel. 116,381; Aug. 29.
Alphabet for forming monograms or similar article. M. Chernow. 116,361–2; Aug. 29.
Amplifier or the like. P. J. Faber. 116,394; Aug. 29.
Ashtray and cigarette receptacles, Combination. R. F. Hudachek. 116,368; Aug. 29.
Bottle. G. N. Mas. 116,349; Aug. 29.
Bottle. E. J. Schuellein. 116,352; Aug. 29.
Box, Cake. A. W. Lovejoy. 116,345; Aug. 29.
Bridge or similar article, Crane. H. H. Ostrander. 116,376–7; Aug. 29.
Buckle, Belt. J. L. Bibula. 116,333–6; Aug. 29.
Burner pumping and control unit, Oil. T. W. Murphy. 116,374–5; Aug. 29.
Cabinet, Culinary. T. B. Lynch and C. W. Kenzie. 116,372; Aug. 29.
Clip, Valance. R. H. Wright. 116,438; Aug. 29.
Coat. A. Rosenzweig. 116,351; Aug. 29.
Coat or similar article, Beach. L. C. Asch. 116,425; Aug. 29.
Coffee maker. A. F. Ramsthal. 116,380; Aug. 29.
Coffee server. A. F. Ramsthal. 116,379; Aug. 29.
Container, Combination perfume. F. N. Lewis. 116,371; Aug. 29.
Counterbore. O. C. Hedin. 116,341; Aug. 29.
Cuff link. G. A. Ingleby. 116,342; Aug. 29.
Cupboard. A. W. Lovejoy. 116,346; Aug. 29.
Cutting machine or similar article, Portable electric. F. J. Clark. 116,360; Aug. 29.
Desk unit, Combination. D. Shatt. 116,382; Aug. 29.
Dress. P. Fracchia. 116,395–9; Aug. 29.
Dress. P. Fracchia. 116,401–4; Aug. 29.
Dress. P. Fracchia. 116,406; Aug. 29.
Dress. H. Goldman. 116,428; Aug. 29.
Dress. M. Haon. 116,407; Aug. 29.
Dress. A. Maidman. 116,409; Aug. 29.
Dress. A. Maidman. 116,411; Aug. 29.
Dress. V. S. Mandler. 116,347–8; Aug. 29.
Dress. K. Rost. 116,414; Aug. 29.
Dress. B. S. Roth. 116,415; Aug. 29.
Dress. M. G. Schor. 116,435; Aug. 29.
Dress. A. L. Siverts. 116,417; Aug. 29.
Dress. F. Sussman. 116,419; Aug. 29.
Dress. F. Toran. 116,437; Aug. 29.
Dress. S. Zahn. 116,423; Aug. 29.
Dress. P. Zahn. 116,424; Aug. 29.
Dress ensemble. P. Fracchia. 116,400; Aug. 29.
Dress ensemble. P. Fracchia. 116,405; Aug. 29.
Dress ensemble. S. Kuznetz. 116,408; Aug. 29.
Dress ensemble. A. Maidman. 116,410; Aug. 29.
Dress ensemble. M. Moore. 116,433; Aug. 29.
Dress ensemble. A. L. Siverts. 116,418; Aug. 29.
Fabric or article of similar nature, Braided. E. Hansmann. 116,367; Aug. 29.
Fabric or similar article, Textile. M. Sigoda. 116,385–8; Aug. 29.
Fabric or similar article, Textile. M. Turpan. 116,420–1; Aug. 29.
Fabric or similar article, Textile. A. Zavell. 116,355; Aug. 29.
Fabric or similar article, Textile. A. Zavell. 116,391; Aug. 29.
Fabric, Textile. E. S. Ross. 116,413; Aug. 29.
Fabric, Textile. A. A. Selverstone. 116,416; Aug. 29.
Fabric, Textile. M. Simeone. 116,436; Aug. 29.
Fabric, Woven textile. J. L. Walther. 116,422; Aug. 29.
Fly swatter blade. M. W. Gatch. 116,366; Aug. 29.
Hat. M. N. Bryan. 116,426; Aug. 29.
Heater or similar article. E. G. and R. J. Siegler. 116,384; Aug. 29.
Holder for thread spools or similar articles. J. Edelstein. 116,364; Aug. 29.
Jewelry setting or similar article. F. J. Gaertner. 116,337; Aug. 29.
Lace. B. Edson. 116,365; Aug. 29.
Lamp. J. M. Angeletti. 116,356; Aug. 29.
Lock for automobile doors, Safety. H. J. McDevitt. 116,350; Aug. 29.
Mat, Floor. D. R. Cotterman. 116,363; Aug. 29.
Mattress, Surf. R. M. and D. A. Banks. 116,359; Aug. 29.
Mirror. S. Silverman. 116,353; Aug. 29.
Necklace. A. Philippe. 116,378; Aug. 29.
Pencil tip. J. S. Rackford and E. C. Kubler. 116,412; Aug. 29.
Pitcher, Cream. L. J. Mitchell. 116,373; Aug. 29.
Rack, Display. L. A. Shelton. 116,383; Aug. 29.
Rack, Shoe. S. G. Arch. 116,393; Aug. 29.
Rail, Prayer. F. M. Wojtalewicz. 116,354; Aug. 29.
Range, Cooking. J. A. Underwood. 116,389–90; Aug. 29.
Range or analogous article. W. C. Lindemann. 116,370; Aug. 29.
Ring, Finger. L. F. Heberger. 116,340; Aug. 29.
Service station. R. N. Aldrich and A. H. Jachne. 116,392; Aug. 29.
Shade, Lamp. J. M. Angeletti. 116,357–8; Aug. 29.
Shade or similar article, Eye. A. N. Gates. 116,427; Aug. 29.
Shoe. H. Greenblatt. 116,429; Aug. 29.
Signal device or the like, Reflector. J. C. Haggart, Jr. 116,339; Aug. 29.
Spectacles, Pair of. G. P. Miller. 116,431–2; Aug. 29.
Stand, Announcement. T. H. Gist. 116,338; Aug. 29.
Suit ensemble. M. Kolmer. 116,430; Aug. 29.
Support, Motor. W. L. Laib. 116,343; Aug. 29.
Tire, Pneumatic. R. S. Lombard. 116,344; Aug. 29.
Typewriter frame. J. Kriiger. 116,369; Aug. 29.
Vehicle, Tractive. R. D. Raseman. 116,434; Aug. 29.

LIST OF INVENTIONS

FOR WHICH

PATENTS WERE ISSUED ON THE 29TH DAY OF AUGUST, 1939

NOTE.—Arranged in accordance with the first significant character or word of the name (in accordance with city and telephone directory practice).

Abrasive, Metallic. J. F. Ervin. 2,171,081–3; Aug. 29.
Abrasive throwing machine. V. E. Minich. 2,170,831–2; Aug. 29.
Abrasive tool. L. J. Kaufman and C. H. Schemchak. 2,171,254; Aug. 29.
Accumulator, Removable. H. F. Allen. 2,170,890; Aug. 20.
Acid synthesis, Propionic. D. J. Loder. 2,170,825; Aug. 29.
Acids and salts thereof, Producing sulphonic. W. Schrauth and E. Schirm. 2,171,117; Aug. 29.
Acids, Recovering fatty. O. M. Urbain and W. R. Stemen. 2,171,198; Aug. 29.
Acids, Recovering fatty. O. M. Urbain and W. R. Stemen. 2,171,200; Aug. 29.
Acids, Recovering fatty. O. M. Urbain and W. R. Stemen. 2,171,202; Aug. 29.
Acids with ketones and esters, Dehydration of lower fatty. D. F. Othmer. 2,170,834; Aug. 29.
Adhesive sheet, Pressure sensitive. R. T. K. Cornwell. 2,171,140; Aug. 29.
Adhesive sheets, Preparing. W. L. Morgan. 2,170,949; Aug. 29.
Adjustable thermostatic switch. L. L. Cunningham. 2,171,273; Aug. 29.
Advertising and display device. J. Schweiger. 2,171,246; Aug. 29.
Advertising and display sign. W. A. C. Trollope and L. E. M. McVicar. 2,171,462; Aug. 29.
Aerial, Radio. E. B. Moullin. 2,171,256; Aug. 29.
Air conditioning. C. B. Grady. 2,170,992–3; Aug. 29.
Aid conditioning apparatus. C. B. Grady. 2,170,991; Aug. 29.
Air conditioning apparatus. G. Griffiths. 2,171,088; Aug. 29.
Air conditioning, Method of and apparatus for controlled. W. J. Peltier. 2,171,147; Aug. 29.
Aircraft blind landing system. H. Chireix. 2,170,852; Aug. 29.
Aircraft trim indicator. B. G. Carlson. 2,171,265; Aug. 29.
Airfoil mechanism. E. F. Zaparka. 2,170,886; Aug. 29.
Alkoxyacetones, Production of. H. C. Chitwood. 2,170,855; Aug. 29.
Alkyl halo-diphenyloxides. G. H. Coleman and R. R. Dreisbach. 2,170,989; Aug. 29.
Alloy; *See*—
Lead alloy.
Alloys, Stabilizing silicon. E. F. Doom. 2,171,108; Aug. 29.
Amplifier feedback suppression. F. Strecker. 2,170,878; Aug. 29.
Amusement device. J. Whiteley. 2,170,935; Aug. 29.
Anchor. G. S. Allin. 2,170,889; Aug. 29.
Anchor, Gas. R. A. Werts. 2,170,881; Aug. 29.
Anchorage for cargo binders, Car wall. M. L. Rowe. 2,170,913; Aug. 29.
Anhydrides, Treating. H. E. Martin. 2,170,972; Aug. 29.
Antenna, Vertical. W. Berndt. 2,170,849; Aug. 29.
Antifriction bearing. R. Bode and A. von Petery. 2,171,390; Aug. 29.
Apparatus for determining insulating values. F. C. Doble and G. H. Browning. 2,170,813; Aug. 29.
Apparatus for displaying and advertising merchandise. L. H. Williams. 2,171,054; Aug. 29.
Apparatus for the electrolytic production of metallic shapes. V. L. Tannehill. 2,171,437; Aug. 29.
Apparatus for treating articles with fluid. G. Kuhn. 2,171,449; Aug. 29.
Appliance for correcting bunions. H. J. Strickland. 2,171,247; Aug. 29.
Arc lamp. J. Gelb. 2,171,027; Aug. 29.
Articles, Forming cold-worked. E. S. Cornell, Jr. 2,170,811; Aug. 29.
Ashtray and cigarette extinguisher. N. M. Cameron. 2,171,489; Aug. 29.
Attachment for faucets, Fountain. J. P. Brunetti. 2,171,471; Aug. 29.
Attachment to typewriter keys. L. Munoz. 2,171,470; Aug. 29.
Attachment to wire cables, Securing. R. Tondeur. 2,171,280; Aug. 29.
Automatic check and shut-off valve. J. R. Polston. 2,171,190; Aug. 29.
Automobile. W. Boxan. 2,171,469; Aug. 29.
Azo compounds and coloring therewith. J. G. McNally, J. B. Dickey, and W. H. Zugschwerdt. 2,171,159; Aug. 29.
Bag-closing apparatus. J. D. Merrifield. 2,171,130; Aug. 29.
Bag; *See*—
Interchangeable utility bag.
Balls, Covering tennis. S. G. Ball. 2,171,118; Aug. 29.
Band, Tree. W. B. Kirkpatrick. 2,170,822; Aug. 29.
Bands or the like, Joining the edges of metal. A. E. Sonesson. 2,171,195; Aug. 29.
Bar; *See*—
Glazing bar.
Bathtub control, Dual. S. J. Stanton. 2,171,133; Aug. 29.
Bearing; *See*—
Antifriction bearing.
Bearings from light metal alloys, Manufacturing cast. C. Steiner. 2,171,229; Aug. 29.
Bed and luggage carrier, Convertible camp. W. L. Chambers. 2,170,987; Aug. 29.
Belt and belt connector. A. L. Freedlander. 2,171,055; Aug. 29.
Belt drive. L. Kellenberger. 2,170,925; Aug. 29.
Belt fastener. J. C. Olsen. 2,170,973; Aug. 29.
Benzene derivatives and uses therefor, Hydroxy halogenated. L. P. Kyrides. 2,171,494; Aug. 29.
Beryllium and beryllium alloys, Production of reguline. H. von Zeppelin. 2,171,439; Aug. 29.
Binding device and pencil support. C. E. Morris. 2,171,188; Aug. 29.
Bit; *See*—
Roller bit.
Bit structure, Manufacturing roller. R. R. Crum. 2,171,058; Aug. 29.
Blanking machine. J., Jr., W. F., C. F., and J. Weber, Sr. 2,171,464; Aug. 29.
Blasting assembly. F. Young. 2,171,384; Aug. 29.
Blind, Venetian. J. Carreras and R. Laborda. 2,170,938; Aug. 29.
Blind, Venetian. L. S. Simon. 2,170,877; Aug. 29.
Block; *See*—
Wire block.
Blow-off valve. W. H. Hinsch. 2,171,240; Aug. 29.
Board; *See*—
Pin board.
Bobbin, Conditioning-yarn. R. B. Smith. 2,171,409; Aug. 29.
Body for motor vehicles with air-cooled rear engines, Streamline. M. Klavik. 2,171,091–2; Aug. 29.
Bolster. J. C. Tarbell. 2,170,879; Aug. 29.
Bolster spring unit. C. J Holland. 2,171,064; Aug. 29.
Bottle filler attachment, Milk. C. O. Barger. 2,171,386; Aug. 29.
Box; *See*—
Folding paper box.
Brake; *See*—
Vehicle brake.
Brake. D. L. Gallup. 2,170,893; Aug. 29.
Brake and pressure fluid. R. Endres. 2,171,491; Aug. 29.
Brake apparatus for motor road vehicles, Emergency. J. Beavan. 2,171,352; Aug. 29.
Brake applying means for pony and engine trucks, Derailment actuated. H. S. Johnson and R. J. Adams. 2,171,178; Aug. 29.
Brake arrangement. W. C. Hedgcock. 2,171,514; Aug. 29.
Brake lever construction. H. S. Jandus and C. F. Purdy. 2,170,900; Aug. 29.
Brake mechanism. M. Farrell. 2,171,396; Aug. 29.
Brake mechanism. A. Orscheln. 2,171,403; Aug. 29.
Brake shoe key anchorage. G. F. Jackson. 2,171,307; Aug. 29.
Brake testing apparatus for motor vehicles. H. Wochner. 2,171,283; Aug. 29.
Braking mechanism. J. Erbel. 2,171,473; Aug. 29.
Breaker strip and fitting. R. H. Money. 2,171,036; Aug. 29.
Brush. W. Frank. 2,171,444; Aug. 29.
Buckle. I. B. Holtz. 2,171,448; Aug. 29.
Buffing machine. B. Jorgensen. 2,170,901; Aug. 29.
Building construction. J. C. P. Leemhuis. 2,171,001; Aug. 29.
Building member and construction. A. Henderson. 2,171,338; Aug. 29.
Bumper, Vehicle. E. D. Walter. 2,170,981; Aug. 29.
Bumper, Vehicle. W. C. Walter. 2,171,104; Aug. 29.
Calcium phosphate products, Making. J. W. Turrentine. 2,170,843; Aug. 29.
Camera. A. G. Hillman. 2,171,269; Aug. 29.
Camera, Moving picture. M. A. Dalotel. 2,171,472; Aug. 29.
Camera, Photographic. H. Bartels and O. Müller. 2,170,959; Aug. 29.

Can and insertible pouring spout. J. Livoti. 2,171,094; Aug. 29.
Can-closing machine. J. M. Hothersall and A. E. Almgren. 2,170,821; Aug. 29.
Cap assembly, Radiator. A. L. Swank. 2,171,168; Aug. 29.
Cap or the like, Bottle. C. C. Webb. 2,171,015; Aug. 29.
Caps, Method and apparatus for lining crown. P. E. Pearson. 2,171,258; Aug. 29.
Car: *See*—
Refrigerator car.
Car coupling. L. Olesvary. 2,171,343; Aug. 29.
Carbamyl dithio-carbamates. I. Williams. 2,171,420; Aug. 29.
Carbonaceous materials, Active. P. Smit. 2,171,408; Aug. 29.
Carburetor and fume eliminator innerlock for internal combustion engines, Combined. E. G. Parvin. 2,171,291; Aug. 29.
Card holder. C. R. Anderson. 2,171,350; Aug. 29.
Carotinoids, Extracting. D. D. Peebles. 2,170,872; Aug. 29.
Carpenter's tool. B. M. Carr. 2,170,986; Aug. 29.
Carpet-cleaning machine. J. K. Tingle. 2,171,072; Aug. 29.
Carriage, Folding baby. G. Stinson. 2,171,013; Aug. 29.
Cart. E. L. Masters. 2,171,068; Aug. 29.
Carton and article feeding mechanism. M. J. Milmoe and C. J. Malhiot. 2,171,131; Aug. 29.
Carton, Collapsible display. A. A. Mertz. 2,170,906; Aug. 29.
Carton for wax records. R. E. Worden. 2,171,017–18; Aug. 29.
Carton machine and forming cartons. F. D. Palmer. 2,171,418; Aug. 29.
Case: *See*—
File case. Tie case.
Casing, Fan. K. D. McMahan. 2,171,341–2; Aug. 29.
Casing perforating device. P. T. Bynum. 2,171,442; Aug. 29.
Casting means for line-casting machines. H. R. Freund. 2,171,500; Aug. 29.
Cathode for electron discharge devices. E. Wiegand. 2,171,249; Aug. 29.
Cathode ray electrical measuring device. G. M. Koch. 2,171,216; Aug. 29.
Cathode ray tube. A. Rose. 2,171,224; Aug. 29.
Cathode ray tube recording device. W. Helmann. 2,170,819; Aug. 29.
Cellulosic film and preparing same. H. S. Rothrock. 2,170,840; Aug. 29.
Cellulosic structure and preparing same. J. C. Woodhouse. 2,170,845; Aug. 29.
Chair: *See*—
Invalid's bed-chair.
Chair. C. E. and O. R. Platter. 2,171,189; Aug. 29.
Chlorination. H. Bender. 2,170,801; Aug. 29.
Christmas tree stand. A. J. and H. H. Schulz. 2,171,228; Aug. 29.
Circuit: *See*—
Radio receiving circuit.
Circuit breaker, Automatic auto safety. W. S. Schuyler. 2,171,457; Aug. 29.
Circuit breaking device for electrical alarm installations. C. Roth. 2,171,245; Aug. 29.
Circuit for amplitude modulation carrier wave. R. Urtel. 2,171,151; Aug. 29.
Circuits, Device for controlling electric. L. J. De Lanty. 2,170,964; Aug. 29.
Circuits, Electron beam deflection. G. B. Banks. 2,170,847; Aug. 29.
Circuits for more nearly perfect sound reproduction. R. J. Rockwell. 2,171,048; Aug. 29.
Clamp: *See*—
Multiple clamp.
Clay products, Making. F. B. Hobart. 2,171,290; Aug. 29.
Cleaner: *See*—
Tube cleaner.
Cleaner and silencer assembly, Carburetor air. H. G. Kamrath. 2,170,902; Aug. 29.
Clearing device for beer dispensing systems. W. G. Doh. 2,171,142; Aug. 29.
Clip: *See*—
Windshield wiper clip.
Clock, Automatic time switch. A. Martin. 2,171,370; Aug. 29.
Cloth finishes, Fixing. H. I. and L. Jones. 2,171,475; Aug. 29.
Clutch. R. C. Zeidler. 2,171,385; Aug. 29.
Clutch control. V. W. Kilesrath. 2,170,905; Aug. 29.
Clutch control mechanism. R. S. Sanford. 2,170,875; Aug. 29.
Clutches, Control of motor vehicle. R. L. Neill. 2,170,868; Aug. 29.
Coasting device. S. R. Smith. 2,170,978; Aug. 29.
Coating of lacquer to flexible materials, Applying a. S. J. Blaupot ten Cate. 2,171,389; Aug. 29.
Coffee-making apparatus. T. C. Miller. 2,171,321; Aug. 29.
Coin classifier and slug detector. F. W. Hoban. 2,170,897; Aug. 29.
Coin collecting and object distributing machine. A. Errera. 2,171,492; Aug. 29.
Collar fastener. F. Holzknecht. 2,171,270; Aug. 29.
Collar passing blow-out preventer and stripper, Rotary. F. J. Schweitzer and W. D. Shaffer. 2,170,916; Aug. 29.
Comb and clamp device, Automatic hair waving. F. Zaccaro and P. C. Milosis. 2,171,422; Aug. 29.
Composition of matter. C. L. Griffith and L. A. Hall. 2,171,428; Aug. 29.
Compressor regulator. C. S. Baker. 2,171,285–6; Aug. 29.
Compressor unloader, Automatic. C. G. Bach. 2,170,846; Aug. 29.
Condensation product from p-dichlorbenzol and sulphuric anhydride and its derivatives. W. Seel. 2,171,166; Aug. 29.
Condenser: *See*—
Electric condenser. High frequency condenser.
Condenser. G. T. Kohman. 2,171,127; Aug. 29.
Condition responsive switch. C. G. Kronmiller and H. E. Malone. 2,171,272; Aug. 29.
Connection for continuous structures. R. E. Tarbet. 2,171,326; Aug. 29.
Connection for toggle actions, Automatic fluid. A. O. Gates, O. H. Pearson, and G. Pearson. 2,171,235; Aug. 29.
Connector: *See*—
Belt and belt connector.
Consistency control device. S. E. Meyers. 2,171,312; Aug. 29.
Contact filtration of viscous lubricating oils for decolorization. C. F. Tears. 2,171,377; Aug. 29.
Contactor, Magnetic impulse. M. V. Green. 2,171,124; Aug. 29.
Container: *See*—
Hot liquid container. Shipping container.
Lipstick container.
Container for packaging and dispensing interfolded paper sheets. J. I. Haney. 2,171,415; Aug. 29.
Container for rouge and the like. A. D. Julius. 2,171,339; Aug. 29.
Containers, Manufacturing spherical light weight. W. H. Freygang. 2,171,111; Aug. 29.
Control apparatus for heating plants, Electrical. P. Hartmann-Riis. 2,171,099; Aug. 29.
Control for multiunit power generating systems. C. F. Strong. 2,170,918; Aug. 29.
Control for transmissions, Remote. C. A. Chayne. 2,170,794; Aug. 29.
Control mechanism, Dual. H. R. Ellinwood. 2,170,982; Aug. 29.
Control mechanism for radio receivers. F. J. Hooven. 2,170,820; Aug. 29.
Converter control system, Synchronous. J. C. Ferrante. 2,170,816; Aug. 29.
Conveyer. A. F. White. 2,170,934; Aug. 29.
Conveyer for feeding articles. F. F. Ruau. 2,171,193; Aug. 29.
Cooking machine. R. W. Stirgwolt. 2,171,510; Aug. 29.
Copper powder, Preparing. J. E. Drapeau, Jr. 2,170,814; Aug. 29.
Copy holder. H. C. Welter. 2,171,261; Aug. 29.
Cord assembly for vacuum cleaners or the like, Electric. E. E. Folsom, Jr. 2,171,331; Aug. 29.
Cornerib or similar structure. C. E. Carr. 2,171,121; Aug. 29.
Counter construction, Display. J. F. Urbanek. 2,171,378; Aug. 29.
Counter transfer and clearing mechanism. E. M. La Boiteaux. 2,171,477; Aug. 29.
Coupler, Car. A. J. Bazeley. 2,170,891; Aug. 29.
Coupler, Car. W. J. Metzger. 2,170,907; Aug. 29.
Coupler for tractor drawn trailers, Stabilized. G. P. Humphrey. 2,170,898; Aug. 29.
Coupler for train pipes. F. W. Dearborn. 2,171,288; Aug. 29.
Coupler shank and yoke connection. W. J. Metzger. 2,170,908; Aug. 29.
Coupling: *See*—
Car coupling. Vehicle coupling.
Parachute harness release coupling.
Cover for umbrellas, parasols, and sunshades. C. Katz. 2,171,476; Aug. 29.
Crimping device. R. R. Nydegger. 2,171,371; Aug. 29.
Crusher, Gyratory. S. Klesskalt. 2,171,429; Aug. 29.
Crusher, Impulse type rotary. H. Sakurai. 2,171,100; Aug. 29.
Crusher with adjustable resilient feed grate, Hammer. L. Tschauner. 2,171,463; Aug. 29.
Curler, Hair. W. J. Gallagher. 2,171,122; Aug. 29.
Current, System of converting direct. R. H. Sullivan. 2,171,279; Aug. 29.
Cushion closing device. A. J. Kay. 2,171,066; Aug. 29.
Cutting device for fishermen. E. D. Slawson. 2,171,050; Aug. 29.
Cutting operations, Rating and recording. A. L. McMaster. 2,170,826; Aug. 29.
Cylinder and piston structure, Master. E. G. Carroll. 2,170,851; Aug. 29.
Decoration, Christmas tree. B. F. Muldoon. 2,171,116; Aug. 29.
Deep well motor pump. L. R. Thrasher. 2,171,460; Aug. 29.
Delayed action switch. H. W. Jones. 2,171,114; Aug. 29.

Device for controlling and regulating liquid level, liquid flow, and temperature and pressure conditions thereof. J. E. Christian. 2,171,394; Aug. 29.
Die and method of forming. H. C. Wyland. 2,171,323; Aug. 29.
Dining table. A. Fasce. 2,171,084; Aug. 29.
Di-phenyl mono-ortho-chlorphenyl phosphite. C. L. Moyle. 2,170,833; Aug. 29.
Diphenyloxide, Alkylated. G. H. Coleman and R. P. Perkins. 2,170,809; Aug. 29.
Direction finder. P. Hermanspann. 2,170,860; Aug. 29.
Discharge device and electrode. G. A. Freeman. 2,171,234; Aug. 29.
Discharge device and electrode. D. S. Gustin. 2,171,238; Aug. 29.
Disconnecting switch. C. G. Koppitz. 2,171,182; Aug. 29.
Dispensing receptacle. C. L. Gebauer. 2,171,501; Aug. 29.
Display rack. G. C. Macdonald. 2,171,035; Aug. 29.
Doll construction, Walking. E. Torngren. 2,171,281; Aug. 29.
Door: *See*—
Sliding door.
Door structures for mine cars and like purposes, Interlocking. C. A. Griffith. 2,170,998; Aug. 29.
Door structure, Overhead. G. V. Smith. 2,171,194; Aug. 29.
Draft eliminator. C. G. Raible. 2,171,070; Aug. 29.
Drive-lock means. G. E. Swartz. 2,171,458; Aug. 29.
Dry-cleaning machine. M. Busl. 2,171,499; Aug. 29.
Duplicating machine. F. R. Ford. 2,171,061; Aug. 29.
Dustpan. C. W. Milliner. 2,171,187; Aug. 29.
Dyes and their preparation, Photographic sensitizing. L. G. S. Brooker. 2,170,803; Aug. 29.
Dyes, Azo. C. W. Hannum and S. S. Rossander. 2,171,364; Aug. 29.
Dyes containing a thionaphthenone nucleus, Merocyanine. L. G. S. Brooker. 2,170,806; Aug. 29.
Dyes from barbituric acids, Merocyanine. L. G. S. Brooker. 2,170,807; Aug. 29.
Dyes from benzoxazoles, Merocyanine. L. G. S. Brooker. 2,170,804; Aug. 29.
Earth working apparatus. C. A., Sr., C. A., Jr., and G. G. Ragland. 2,171,098; Aug. 29.
Educational device. M. and M. Lodewick. 2,170,971; Aug. 29.
Electric apparatus power saver. E. A. Hobart. 2,170,861; Aug. 29.
Electric arc furnace. K. Schneider and H. Schunck. 2,171,435–6; Aug. 29.
Electric condenser. W. Braunschweig. 2,171,231; Aug. 29.
Electric discharge device. H. F. Dalpayrat. 2,171,490; Aug. 29.
Electric snap switch. A. W. Krieger. 2,171,368; Aug. 29.
Electric switch. A. F. Doty. 2,171,267; Aug. 29.
Electrical apparatus. P. D. Crout. 2,171,512; Aug. 29.
Electrical insulation. R. M. Fuoss. 2,171,334; Aug. 29.
Electrical system. A. F. Price. 2,170,873; Aug. 29.
Electrode, Grid. O. H. Schade. 2,171,225; Aug. 29.
Electron discharge device. H. E. Hollmann. 2,171,212; Aug. 29.
Electron discharge device. P. Schoonenberg. 2,171,226; Aug. 29.
Electron emitter and making it, Secondary. W. J. H. Schreinemachers. 2,171,227; Aug. 29.
Electron emitting screen tube, Secondary. J. L. H. Jonker, E. H. Löpp and A. J. W. M. van Overbeek. 2,171,214; Aug. 29.
Electronic modulator for constant frequency variable dot transmission. R. E. Shelby. 2,171,150; Aug. 29.
Elements from molten metal, Forming. A. Simons. 2,171,132; Aug. 29.
Elliptic spring. W. H. Baselt. 2,171,206; Aug. 29.
Engine: *See*—
Internal combustion engine. Rotary engine.
Engine choke. W. S. Roberts. 2,171,008; Aug. 29.
Etching apparatus. A. Holmström. 2,171,474; Aug. 29.
Ethers of phenylphenols, Methallyl. G. H. Coleman and G. V. Moore. 2,170,990; Aug. 29.
Ethers of polyhydroxy halogenated phenols. L. P. Kyrides. 2,171,495; Aug. 29.
Ethylene glycol aryloxy-acetates. E. F. Grether, W. R. Shawver and R. B. Du Vall. 2,170,995; Aug. 29.
Ethylene glycol di-(aryloxy-acetates). E. F. Grether, W. R. Shawver and R. B. Du Vall. 2,170,996; Aug. 29.
Explosion safety device. H. Brüning. 2,170,937; Aug. 29.
Explosive, Ammonium nitrate. M. H. Wahl. 2,171,379; Aug. 29.
Explosive composition, Disruptive or brisant. W. Friederich. 2,170,943; Aug. 29.
Extracts of spleen and liver, Preparing. C. L. Lautenschläger and W. Ludwig. 2,171,320; Aug. 29.
Extrusion apparatus for obtaining luster, color, pattern, and complicated shape effects on articles formed of plastic material. C. Orsini. 2,171,095; Aug. 29.
Fabric: *See*—
Laminated fabric.
Fabric finishing and like machines. A. H. Gentle. 2,170,968; Aug. 29.
Fabric with elastic inlay and embroidery pattern, Knitting. J. L. Getaz. 2,171,445; Aug. 29.
Fabrics and like materials to produce effects therein and products therefrom, Treating. G. Heberlein and E. Weiss. 2,171,513; Aug. 29.
Fastener: *See*—
Belt fastener. Collar fastener.
Fastening device. G. L. Moore and J. R. Steele. 2,171,163; Aug. 29.
Fatigue tester, Resonant vibration. A. V. de Forest. 2,171,303; Aug. 29.
Faucet, Beer-dispensing. H. H. Harr. 2,170,922; Aug. 29.
Faucet extension, Rubber. J. Buxton. 2,171,023; Aug. 29.
Feeding finger. J. Evasic. 2,170,942; Aug. 29.
Filaments, Treating artificial. H. G. van der Waals and G. E. J. Wiessing. 2,171,485; Aug. 29.
File case. R. Wurzburg. 2,171,105; Aug. 29.
File, Saw. P. Farwell. 2,171,443; Aug. 29.
File, Stick. J. H. Milling. 2,171,453; Aug. 29.
Film and preparing same. F. M. Meigs. 2,170,829; Aug. 29.
Film, Process for welding. C. Scott. 2,171,259; Aug. 29.
Filter and medicator for poultry hovers and the like, Air. J. Lyon. 2,171,400; Aug. 29.
Filter for photometers, Eyepiece light. C. J. Thompson. 2,171,260; Aug. 29.
Filter or strainer. T. C. Makins. 2,171,004; Aug. 29.
Filtering device. A. E. Squire. 2,171,484; Aug. 29.
Finishing tool. H. R. Hawgood. 2,171,325; Aug. 29.
Fire extinguisher. D. R. Wheeler. 2,171,487; Aug. 29.
Fish-luring device, Mechanical. C. E. Peck. 2,171,372; Aug. 29.
Fitting, Gasketed. G. O. Conner. 2,171,302; Aug. 29.
Fixture, Dustproof. G. F. Niemann. 2,170,871; Aug. 29.
Flap device. E. F. Zaparka. 2,170,887; Aug. 29.
Flare. H. S. Eroe. 2,170,815; Aug. 29.
Flashlight. A. Gelardin. 2,171,304; Aug. 29.
Floor surfacing. G. De Spirt. 2,171,060; Aug. 29.
Flow device. J. D. Nixon. 2,171,480; Aug. 29.
Fluid control device. A. F. Pieper. 2,171,292; Aug. 29.
Fluid-dispensing apparatus. H. Heller. 2,171,125; Aug. 29.
Fluids under pressure, Flowing. J. D. Nixon. 2,171,478; Aug. 29.
Flux for welding magnesium and magnesium alloys. J. M. Michel. 2,171,041; Aug. 29.
Folding paper box. W. E. Stonecypher. 2,171,051; Aug. 29.
Food compound. T. J. Otterbacher. 2,171,244; Aug. 29.
Fork construction. C. G. Eckhold. 2,170,966; Aug. 29.
Form attachment for garment hangers, Collar. O. Christensen and E. A. Sperry. 2,171,301; Aug. 29.
Formation, Treating a producing. R. E. Lee. 2,171,416; Aug. 29.
Frankfurter-forming apparatus. F. W. Trabold. 2,171,196; Aug. 29.
Frequency control system. L. J. McKesson. 2,171,243; Aug. 29.
Frequency modulation. O. E. De Lange. 2,170,812; Aug. 29.
Fur dyeing. E. Ohsman. 2,171,277; Aug. 29.
Furnace: *See*—
Electric arc furnace.
Furnace. C. H. Lengyel. 2,171,002; Aug. 29.
Fuse assembly. T. F. Johnson. 2,171,179; Aug. 29.
Game. T. Moren. 2,170,909; Aug. 29.
Game, Card and dice. C. R. Shultz. 2,171,295; Aug. 29.
Garment, Air conditioned. J. Hellmann, E. L. Keyes, and J. A. Petrone. 2,171,337; Aug. 29.
Gas cell. W. G. Gow. 2,171,502; Aug. 29.
Gas plant, Producer. J. A. Macdonald. 2,171,184; Aug. 29.
Gaseous discharge tube. A. Kauffeldt. 2,171,215; Aug. 29.
Gasoline and fuel oil, Manufacture of. J. J. Downey and W. W. Murray. 2,170,795; Aug. 29.
Gauge: *See*—
Smoothness gauge.
Gears and apparatus therefor, Spiral rolling generating process for bevel. H. Schlicht. 2,171,406; Aug. 29.
Generator: *See*—
High-voltage generator. Magneto generator.
Glass, Apparatus for feeding molten. T. F. Pearson. 2,171,096; Aug. 29.
Glass-engraving machine. L. E. Rice. 2,171,007; Aug. 29.
Glazing bar. J. Williams. 2,171,319; Aug. 29.
Glow lamp. S. E. Gertler. 2,171,359; Aug. 29.
Gold films, Preparation of. C. S. Gibson. 2,171,086; Aug. 29.
Golf ball teeing device. C. C. Beckett. 2,171,299; Aug. 29.
Golf club. A. A. Simonton. 2,171,483; Aug. 29.
Golf club grip and making the same. W. L. Wettlaufer. 2,171,382; Aug. 29.
Golf club head. W. L. Wettlaufer. 2,171,383; Aug. 29.
Grinder, Ore. J. Youngman and H. R. Culp. 2,171,296; Aug. 29.
Grinding device. S. Klesskalt and W. Mejer. 2,171,115; Aug. 29.
Grinding mill. W. A. Weldlich. 2,171,465; Aug. 29.

Grinding tool, Crankshaft. E. M. McGovern and P. Schrick. 2,171,417; Aug. 29.
Guard, Window cleaner's. C. Hines. 2,171,446; Aug. 29.
Guide and fork for barn cleaning apparatus, Rotary conveyer. V. L. Custer. 2,171,330; Aug. 29.
Guide for flush tank valves. F. M. Heath. 2,171,447; Aug. 29.
Guide, Saw file. E. L. Woodbury. 2,171,169; Aug. 29.
Hair curling device. S. Freeman. 2,171,332; Aug. 29.
Hair-fastening device. W. Zupnyk. 2,171,019; Aug. 29.
Hardware, Builder's. E. H. Johnson. 2,171,065; Aug. 29.
Head assembly for grab buckets. E. L. Harrington. 2,170,999; Aug. 29.
Head treating device. C. E. Smith and C. H. Bruns. 2,171,376; Aug. 29.
Heat exchange apparatus. H. C. Richardson and H. Kampf. 2,171,047; Aug. 29.
Heat, Utilization of waste. H. A. Brassert. 2,171,353; Aug. 29.
Heater: *See*—
Hot water heater.
Heating unit. J. R. Morrison. 2,171,275; Aug. 29.
Heel member, Detachable repair shoe. H. A. Ohstrom. 2,171,045; Aug. 29.
Heel-seat fitting machine. W. D. Thomas. 2,170,842; Aug. 29.
High frequency condenser. L. Malter. 2,171,219; Aug. 29.
High-voltage generator. N. E. Lindenblad. 2,171,242; Aug. 29.
Hinge. S. B. Atwood. 2,171,021; Aug. 29.
Hinge, Separable. A. R. Martindale. 2,171,038; Aug. 29.
Hitch, Trailer. S. E. Adams. 2,170,983; Aug. 29.
Hoist, Revolving. J. M. Paine. 2,171,404; Aug. 29.
Hoisting unit and control system therefor, Hydraulic. H. F. Vickers. 2,171,204; Aug. 29.
Holder: *See*—
Card holder. Instrument holder.
Copy holder.
Holding and releasing device, Automatic. H. V. Harding. 2,171,365; Aug. 29.
Honing machine. A. M. Johnson. 2,171,271; Aug. 29.
Hot liquid container. C. A. Rivard. 2,171,322; Aug. 29.
Hot water heater. N. Marcus. 2,171,369; Aug. 29.
Housing structure, Beam-type. E. J. W. Ragsdale and A. G. Dean. 2,171,434; Aug. 29.
Housings, Making axle. R. C. Glover. 2,170,797; Aug. 29.
Humidity control. C. R. Downs and J. W. Spiselman. 2,171,109; Aug. 29.
Hydrocarbon products by thermal treatment of materials containing carbon, Production of. M. Pier, W. Simon, R. Becker, and F. Stoewener. 2,170,976; Aug. 29.
Hydrocarbon vapors with zinc chloride, Contacting. F. E. Kimball. 2,171,033; Aug. 29.
Ice cubing machine. D. G. Campbell. 2,171,264; Aug. 29.
Ice forming conditions, particularly when encountered by aircraft, Detecting. T. W. Langley. 2,171,450; Aug. 29.
Indicator: *See*—
Aircraft trim indicator. Moisture indicator.
Maximum demand indicato Rate of climb indicator.
Indicator. H. F. Brown. 2,171,022; Aug. 29.
Ingot ejector. R. W. Dinzl. 2,171,141; Aug. 29.
Inking system for surface-decorating machines. E. W. Hamant. 2,170,817; Aug. 29.
Insects and microorganisms, Destroying. I. Rennerfelt. 2,171,315; Aug. 29.
Instrument holder. K. D. Koons. 2,171,128; Aug. 29.
Insulating coating. D. H. Wamsley. 2,171,230; Aug. 29.
Interchangeable utility bag. H. A. and M. E. Thies. 2,170,841; Aug. 29.
Internal combustion engine. E. Hanson. 2,170,818; Aug. 29.
Internal combustion engine. R. M. Nardone. 2,171,257; Aug. 29.
Invalid's bed-chair. R. C. Capron. 2,171,251; Aug. 29.
Jack and wheel locking arrangement for automobiles or like vehicles, Combination lifting. P. Ostruk. 2,170,910; Aug. 29.
Joint: *See*—
Pivotal joint. Universal joint.
Joint reinforcement, Board. H. K. Linzell. 2,171,210; Aug. 29.
Knitting. J. L. Getaz. 2,171,236; Aug. 29.
Knob structure. J. A. and J. P. Gits. 2,171,361; Aug. 29.
Labeling machine for bottles and the like. H. Friberg. 2,171,085; Aug. 29.
Laminated fabric. G. Klinkenstein. 2,171,505-6; Aug. 29.
Lamp: *See*—
Arc lamp. Vapor lamp.
Glow lamp.
Lamp instrument illuminator system, Miniature. P. Kollsman. 2,171,431; Aug. 29.
Lantern, Electric. L. M. Wiley. 2,171,349; Aug. 29.
Latch. F. W. E. Deverell. 2,171,174; Aug. 29.
Lathes, Powered cross feed for. J. Abel. 2,170,888; Aug. 29.
Laundry waste, Purification of. O. M. Urbain and W. R. Stemen. 2,171,197; Aug. 29.
Laundry waste, Purification of. O. M. Urbain and W. R. Stemen. 2,171,199; Aug. 29.
Laundry waste, Purification of. O. M. Urbain and W. R. Stemen. 2,171,201; Aug. 29.
Lead alloy. B. Jones. 2,171,180; Aug. 29.
Lead and nitro-phenyl, Reacting a tetra-alkyl. M. S. Altamura. 2,171,423; Aug. 29.
Leakage, Apparatus for detecting. H. H. Hopkins. 2,171,113; Aug. 29.
Leather, Fabric-reinforced artificial. M. O. Schur and B. G. Hoos. 2,171,419; Aug. 29.
Lens, Multicolored. C. D. Ryder. 2,170,874; Aug. 29.
Leverage mechanism for vehicle brakes, Variable. B. H. Browall. 2,171,392; Aug. 29.
Lighting and advertising device, Combined automatic. G. P. Diaz. 2,171,079; Aug. 29.
Lighting construction. M. S. Wideroe. 2,170,882; Aug. 29.
Lightning arrester. J. S. Baker. 2,171,351; Aug. 29.
Lime, Calcining. R. C. Newhouse. 2,171,507; Aug. 29.
Lipstick container. A. C. Hoffman. 2,171,112; Aug. 29.
Lock: *See*—
Showcase lock.
Lock device, Keyless. L. H. Amdur. 2,170,957; Aug. 29.
Locking device, Automatic. E. Canepa. 2,171,138; Aug. 29.
Locomotive front end arrangement. M. P. Blomberg. 2,170,791; Aug. 29.
Locomotive, Steam. J. G. Blunt. 2,171,106; Aug. 29.
Luminaire, T. W. Rolph. 2,170,912; Aug. 29.
Luminescent material. H. W. Leverenz. 2,171,145; Aug. 29.
Machine for blocking and pressing hats, Duplex. O. Seidel. 2,171,102; Aug. 29.
Machine for feeding or depositing measured quantities of dough or the like. E. Christiansen. 2,170,988; Aug. 29.
Machine for forming bottle necks upon sheet metal tubs. E. J. Greif. 2,170,946; Aug. 29.
Machine for forming cold wrought products. E. S. Cornell, Jr. 2,170,810; Aug. 29.
Machine for grinding articles to predetermined forms. C. Day. 2,171,211; Aug. 29.
Machine for making book covers. F. Humphrey and A. Krieger. 2,171,126; Aug. 29.
Machine for manufacturing strap sandals. J. S. Kamborian. 2,170,864; Aug. 29.
Machine for operating on shoe parts. A. A. Lawson. 2,170,823; Aug. 29.
Machine for surface hardening metal articles. A. E. Shorter. 2,170,876; Aug. 29.
Magneto generator. I. W. Cox. 2,170,892; Aug. 29.
Map and like article support. J. H. Beck. 2,171,497; Aug. 29.
Material, Apparatus for skiving strip. T. J. Boecker. 2,170,920; Aug. 29.
Material, Binding fibrous building. L. Berger. 2,171,388; Aug. 29.
Material processing apparatus. G. E. Markley. 2,171,340; Aug. 29.
Material, Producing ferrous sheet. A. J. Castle. 2,171,300; Aug. 29.
Material treating apparatus. A. J. N. Duclos. 2,171,232; Aug. 29.
Materials, Producing hard. A. Boecker. 2,171,391; Aug. 29.
Maximum demand indicator. F. X. Lamb. 2,171,183; Aug. 29.
Mechanism for molding material. E. N. Meakin. 2,171,039; Aug. 29.
Metal body and producing the same, Composite sheet. R. S. Merritt and F. Keller. 2,171,040; Aug. 29.
Metal feeding apparatus. C. Jordan and E. J. Hubelmeyer. 2,171,181; Aug. 29.
Metal half tone screen. E. O. Norris. 2,171,276; Aug. 29.
Metal scrap, Melting up light. E. Junker and W. Leitgebel. 2,170,863; Aug. 29.
Metal seaming machine, Sheet. A. and L. W. Zahner. 2,171,297; Aug. 29.
Metals, Hardening refractory. L. M. Van Note. 2,170,844; Aug. 29.
Meter: *See*—
Parking meter.
Methoxy acetaldehyde and making alkoxy acetaldehydes. N. L. Drake. 2,170,854; Aug. 29.
Mill: *See*—
Grinding mill.
Mining machine. N. D. Levin. 2,170,927-8; Aug. 29.
Mining machine. L. E. Mitchell. 2,171,043; Aug. 29.
Mining machine. L. E. Mitchell. 2,171,161-2; Aug. 29.
Mirror device for looms for ascertaining from the position of the weaver breaking of warp threads or the like in the looms. E. Hochheimer. 2,171,493; Aug. 29.
Moisture indicator. F. H. Gulliksen. 2,171,363; Aug. 29.
Molding and securing means therefor, Garnish. D. O. Brown. 2,171,412; Aug. 29.
Motion, Producing compound. E. F. Cole. 2,171,355; Aug. 29.
Motor: *See*—
Wind motor.
Motor vehicle switch. R. K. Winning. 2,171,073; Aug. 29.

Mounting: *See*—
Resilient mounting. Tuning condenser mounting.
Terrestrial globe mounting ing.
Mounting for machine frames, Motor. E. B. Guze. 2,171,032; Aug. 29.
Multiple clamp. E. Borsetti. 2,171,076; Aug. 29.
Multiple-way valve. P. Van Slitert. 2,171,316; Aug. 29.
Musical instrument. F. H. Kislingbury. 2,171,430; Aug. 29.
Nailing plug. C. W. Prickett and B. L. Wilcox. 2,171,097; Aug. 29.
Navigational systems. E. J. Simon. 2,170,835; Aug. 29.
Notebook. L. T. von Bussler. 2,171,411; Aug. 29.
Nozzle, Suction. G. Dahl. 2,170,963; Aug. 29.
Objects from powdered materials and the like, Production of patterned. H. Schäfer. 2,170,931; Aug. 29.
Oil bath rotary. E. E. Greve. 2,171,176; Aug. 29.
Oil refining process. H. Rostin and K. Schuster. 2,171,009; Aug. 29.
Oil testing apparatus. C. C. Curtis. 2,171,026; Aug. 29.
Oil well pumping mechanism. C. G. Boone. 2,171,287; Aug. 29.
Olefin polymerization. F. M. Archibald. 2,171,250; Aug. 29.
Olefins, Polymerization of. A. H. Boultbee. 2,171,207; Aug. 29.
Optical system for searchlights. R. Straubel. 2,170,979; Aug. 29.
Ore reducing machine. H. Hardinge. 2,171,268; Aug. 29.
Oven, Serving. R. N. Kircher. 2,170,904; Aug. 29.
Packages, Apparatus for and method of sealing wrapped. W. S. Thompson. 2,171,459; Aug. 29.
Packer for solid refrigerants. H. S. Houghton. 2,170,969; Aug. 29.
Panel, Hollow. J. Le Gall. 2,171,358; Aug. 29.
Paper cut-out. N. Spots. 2,170,953; Aug. 29.
Parachute harness release coupling. G. Waite and H. G. Rogers. 2,171,496; Aug. 29.
Parking meter. D. C. Rockola and A. Vischer, Jr. 2,171,345; Aug. 29.
Pavement. J. B. Warden. 2,171,153; Aug. 29.
Pellicles and preparing same. F. M. Meigs. 2,170,828; Aug. 29.
Pellicles and preparing same, Cellulosic. H. S. Rothrock. 2,170,839; Aug. 29.
Pellicles and producing same, Cellulosic. W. F. Underwood and H. S. Rothrock. 2,170,827; Aug. 29.
Pencil. K. Miller. 2,170,867; Aug. 29.
Perforating machine. S. E. Rosenberg. 2,171,482; Aug. 29.
Petroleum emulsions, Resolving. C. M. Blair, Jr. 2,171,328; Aug. 29.
Photocell system to control spacing of traveling articles. F. H. Gulliksen. 2,171,362; Aug. 29.
Photographic emulsion containing dyes from benzoxazoles. L. G. S. Brooker. 2,170,805; Aug. 29.
Photographic masking. W. J. Wilkinson. 2,170,883; Aug. 29.
Phototube. R. J. Erichsen. 2,171,233; Aug. 29
Pigment, White titanium dioxide. R. Dahlstrom 2,170,940; Aug. 29.
Pigments, Making composite titanium. L. E. Barton 2,170,800; Aug. 29.
Pile fabrics, Apparatus for and method of weaving. E. M. Kaufman. 2,171,367; Aug. 29.
Pin board. E. A. Schuster. 2,171,101; Aug. 29.
Pipe cleaning device, Smoking. C. W. Ray. 2,171,314; Aug. 29.
Pipe fittings, Making. E. S. Cornell, Jr. 2,170,853; Aug. 29.
Piston, ring, and ring expander. C. F. Johnston. 2,170,970; Aug. 29.
Pivotal joint. V. P. Mathews. 2,171,157; Aug. 29.
Plant husbandry apparatus. H. Malners. 2,171,160; Aug. 29.
Plant protector. H. Griesbacher. 2,171,397; Aug. 29.
Plant setter. E. L. Masters. 2,171,067; Aug. 29.
Planter. V. Mahurin. 2,171,037; Aug. 29.
Plate for wheel presses, Coupling. H. Wochner. 2,171,282; Aug. 29.
Plug: *See*—
Nailing plug. Tamping plug.
Spark plug.
Pneumatic tool. S. Geldhof. 2,171,029; Aug. 29.
Pocket construction, Glove. M. Attanasio. 2,171,440; Aug. 29.
Polishing machine. A. O. Brooke. 2,170,792; Aug. 29.
Portable road roller. R. W. Keeler. 2,171,255; Aug. 29.
Position of a submarine device, System and apparatus for determining at a distance the angular. C. S. Lawton. 2,171,156; Aug. 29.
Powder distributing attachment for tractors. L. A. Zinke. 2,171,205; Aug. 29.
Powdered mixtures, Method and apparatus for homogenizing. E. Hastert. 2,171,398-9; Aug. 29.
Power and steering mechanism. D. D. Raze. 2,171,294; Aug. 29.
Power plant. A. Rosch. 2,171,346; Aug. 29.
Power soarer. E. F. Andrews. 2,170,958; Aug. 29.
Power transmission. W. T. Dunn and O. W. Schotz. 2,170,856; Aug. 29.
Power transmission. F. S. Hodgman. 2,171,177; Aug. 29.
Power transmission. C. A. Neracher and W. T. Dunn. 2,170,869; Aug. 29.
Power transmission. A. M. Rossman. 2,170,838; Aug. 29.
Power transmitting and converting device, Variable speed dynamo-electric. R. E. Smith. 2,170,836; Aug. 29.
Press: *See*—
Ruffle press.
Press. E. M. Winegar and F. L. Dawes. 2,171,511; Aug. 29.
Press for the extrusion of lead and other metals. G. T. W. Grieve. 2,171,062; Aug. 29.
Pressure stripper, Collar passing. F. J. Schweitzer. 2,170,915; Aug. 29.
Product for the treatment of the alimentary canal. M. Bye. 2,170,921; Aug. 29.
Projecting apparatus. O. Eppenstein and W. Dietzel. 2,170,967; Aug. 29.
Propeller blade. G. T. Lampton. 2,170,865; Aug. 29.
Propeller protractor. J. Y. Lichtenwalner. 2,170,824; Aug. 29.
Protective device. F. J. Bremer. 2,171,263; Aug. 29.
Protector: *See*—
Plant protector.
Pulp article, Apparatus for and method of reshaping a molded. M. P. Chaplin. 2,171,413; Aug. 29.
Pump: *See*—
Deep well motor pump. Well pump.
Pump. F. E. Steele. 2,171,410; Aug. 29.
Pump for supercharged engines, Fuel. L. T. Folsom. 2,171,209; Aug. 29.
Pumping apparatus from a beam, Apparatus for disconnecting. B. H. Ravanelli. 2,171,192; Aug. 29.
Rack: *See*—
Display rack.
Rack for books and the like, Display. C. A. Grant. 2,170,994; Aug. 29.
Racket for tennis and batting games and manufacturing same. R. H. Robinson. 2,171,223; Aug. 29.
Radiator, Tubular. G. W. Day. 2,171,253; Aug. 29.
Radio apparatus. C. W. Hicks. 2,171,432; Aug. 29.
Radio navigational guide system. R. Plastino. 2,171,293; Aug. 29.
Radio receiver. G. M. Wright. 2,171,154; Aug. 29.
Radio receiver, Regenerative. P. H. K. G. Cornelius. 2,171,139; Aug. 29.
Radio receiving circuit. N. Atkinson. 2,171,135; Aug. 29.
Rail ends, Repairing. R. E. Frickey. 2,170,859; Aug. 29.
Rail flaw detector mechanism. H. C. Drake. 2,170,965; Aug. 29.
Rail flaw detector mechanism. H. Schumacher, W. M. Perry, and L. J. De Lanty. 2,170,977; Aug. 29.
Rail lubricating device. C. Stern. 2,170,917; Aug. 29.
Rain detecting means. J. Boone. 2,171,329; Aug. 29.
Rake attachment for cultivators. F. Madden. 2,171,451; Aug. 29.
Rake tooth construction. C. F. Crumb and E. Mowry. 2,171,025; Aug. 29.
Rate of climb indicator. R. H. Archbald. 2,171,298; Aug. 29.
Ray discharge device, Multicathode. M. S. Glass and D. A. S. Hale. 2,170,944; Aug. 29.
Receiver, Superregenerative. W. S. Percival. 2,171,148; Aug. 29.
Receptacle: *See*—
Dispensing receptacle.
Recorder, Multiple. W. D. Anderson. 2,171,327; Aug. 29.
Recorder, Time and distance. F. S. Engel. 2,170,858; Aug. 29.
Recording apparatus and method. R. D. Elliott. 2,170,857; Aug. 29.
Reflector, Nonglare. S. B. Hayden. 2,171,336; Aug. 29.
Refrigerating apparatus. R. N. Feicht. 2,171,110; Aug. 29.
Refrigerator car. G. A. Steuber. 2,171,317; Aug. 29.
Refrigerator heat interchanger. E. Gygax. 2,171,239; Aug. 29.
Regulator: *See*—
Compressor regulator.
Relay. E. Borgkvist. 2,170,961; Aug. 29.
Relay. J. R. Fry. 2,171,333; Aug. 29.
Relay, Electric valve time delay. E. D. Schneider. 2,171,348; Aug. 29.
Relay, Time delay. E. D. Schneider. 2,171,347; Aug. 29.
Resilient mounting. K. and H. O. Schröter. 2,171,149; Aug. 29.
Resins from phenolic compositions and esters of anacardic acid. E. E. Novotny. 2,170,950; Aug. 29.
Rigging. R. Rummler. 2,170,914; Aug. 29.
Ring for use with screwed pipe joints or couplings, Metal packing. H. Kreidel. 2,171,217; Aug. 29.
Rod: *See*—
Welding rod.
Rod and ski clamp and carrier, Fishing. R. White and W. C. Daniels. 2,171,053; Aug. 29.
Roller: *See*—
Portable road roller.
Roller bit. R. R. Crum. 2,171,057; Aug. 29.
Roof construction and method of assembly, Vehicle. A. G. Dean. 2,171,426; Aug. 29.

Roof construction, Random thatch. C. C. Schuetz and F. B. Burns. 2,171,010; Aug. 29.
Rosin, Refining. B. M. Vanderbilt. 2,170,956; Aug. 29.
Rotary engine, Hydraulic. C. O. J. Montelius. 2,171,146; Aug. 29.
Rubber articles, Making. A. F. Thener. 2,170,919; Aug. 29.
Rubber articles, Manufacture of. B. J. Habgood and L. B. Morgan. 2,170,947; Aug. 29.
Rubber, Treatment of. E. H. Farmer, H. P. Stevens, and J. W. Rowe. 2,171,395; Aug. 29.
Rubber, Vulcanization of. M. W. Harman. 2,171,305; Aug. 29.
Rubber, Vulcanization of. I. Williams. 2,171,421; Aug. 29.
Ruffle press. M. Florea. 2,171,356; Aug. 29.
Safety control. R. E. Zerunelth. 2,171,467; Aug. 29.
Safety device for automatic burners. C. Wedge. 2,171,380; Aug. 29.
Salts of cellulose ether carboxylic acids, Preparation of. G. Meyer. 2,171,222; Aug. 29.
Sash, Combination storm and screen. E. M. Porter. 2,171,454; Aug. 29.
Sash counterbalancing means for window frames. H. W. Cook. 2,171,252; Aug. 29.
Scaffold. G. A. Wortelmann. 2,171,284; Aug. 29.
Scale, Weighing. S. N. Hurt. 2,170,798; Aug. 29.
Screen: *See*—
Metal halftone screen.
Seasoning composition. W. J. Stange. 2,170,954; Aug. 29.
Seat and deck construction for stadia. R. W. Ryan, D. L. Mead, and O. O. Phillips. 2,171,374; Aug. 29.
Seat track and riser. R. C. Jacobs. 2,170,923; Aug. 29.
Selective switch. E. P. G. Wright. 2,170,885; Aug. 29.
Selective system, Vehicle-controlled. F. H. Richterkessing. 2,171,278; Aug. 29.
Separator provided with special discharges, Centrifugal. N. Bergner. 2,171,136; Aug. 29.
Sewing machine. C. Meyer. 2,170,948; Aug. 29.
Sewing machine table. T. C. Torines. 2,171,318; Aug. 29.
Shade and covering therefor, Lamp. A. Burke. 2,171,137; Aug. 29.
Shears and scissors. F. D. Blodgett. 2,171,468; Aug. 29.
Sheet-feeding apparatus. E. W. Goodwin. 2,170,894; Aug. 29.
Sheet piling. J. R. Freeze. 2,170,796; Aug. 29.
Shelf and bracket, Drop. J. R. Jones. 2,170,799; Aug. 29.
Shield, Welding. L. G. Tatter. 2,171,052; Aug. 29.
Shingle, Thick butt. C. R. Eckert. 2,171,143; Aug. 29.
Shingles, Making asbestos-cement. W. R. Wright, Jr. 2,171,155; Aug. 29.
Shipping container. W. F. Luce and C. C. Kennedy. 2,171,309; Aug. 29.
Shoe. J. C. Givren. 2,171,414; Aug. 29.
Shoe for oil well packers. J. T. Simmons. 2,171,049; Aug. 29.
Shoehorn. E. B. Morgan. 2,171,310; Aug. 29.
Shoe mechanism, Expanding. H. B. Mead. 2,171,186; Aug. 29.
Shoes, Apparatus for use in making. H. L. Sutcliffe. 2,170,837; Aug. 29.
Shoulder supporting member. D. Bellfort. 2,170,960; Aug. 29.
Showcase lock. E. J. Gapinski. 2,171,123; Aug. 29.
Sifter closure. P. M. Thorn. 2,170,955; Aug. 29.
Sign: *See*—
Advertising and display sign.
Sign. C. W. Williamson. 2,171,016; Aug. 29.
Sign composing apparatus. Q. Buras. 2,170,985; Aug. 29.
Signal device. B. D. Pickering. 2,171,481; Aug. 29.
Signaling system and device therefor, Electrical. W. R. M. Very. 2,171,152; Aug. 29.
Silk. T. B. Johnson. 2,171,241; Aug. 29.
Silk, Manufacture of artificial. W. Zetzsche, J. Giesen, and E. von Pongratz. 2,171,324; Aug. 29.
Size reduction, Method and apparatus for. L. A. Maxson. 2,171,515; Aug. 29.
Slider. J. M. Gross. 2,171,335; Aug. 29.
Slider for hookless fasteners. J. P. Roadfuss. 2,171,455; Aug. 29.
Sliding door. D. R. Nichols. 2,170,870; Aug. 29.
Smoothness gauge. R. A. Powers. 2,171,433; Aug. 29.
Snow plow. J. E. Clay. 2,171,056; Aug. 29.
Sound pick-up unit. F. J. Coyer. 2,171,173; Aug. 29.
Sound records, Photoelectrically scanning balanced. G. Clamann. 2,170,962; Aug. 29.
Spark plug. H. Rabezzana. 2,171,164; Aug. 29.
Spark plug. M. Thomen. 2,171,014; Aug. 29.
Spark plug, Shielded. H. Rabezzana. 2,171,165; Aug. 29.
Speed control mechanism for automotive vehicles. J. R. McCoy. 2,171,401; Aug. 29.
Speed reducer, Continuous power eccentric dual gear. J. R. Perry. 2,170,951; Aug. 29.
Speed reducing mechanism. J. F. McCann. 2,171,158; Aug. 29.
Speed-responsive device. C. I. McNeil and M. E. Longfellow. 2,171,005; Aug. 29.
Spindle construction, High speed. A. H. Dall and F. S. Haas. 2,171,208; Aug. 29.
Spring: *See*—
Elliptic spring.
Spring coiling machine. C. R. Bergevin and E. W. Halvorsen. 2,170,984; Aug. 29.
Spring for telescopic tubular guides, Longitudinal. F. E. Maier. 2,171,185; Aug. 29.
Stand: *See*—
Christmas tree stand.
Stand and guard, Vehicle. C. S. Minton. 2,171,042; Aug. 29.
Stand for supporting light projecting or light receiving units. J. Gelb. 2,171,028; Aug. 29.
Steel, Light weight construction. B. D. Saklatwalla. 2,171,375; Aug. 29.
Stem for fire hydrants, Breakable. E. E. Cline. 2,171,078; Aug. 29.
Stocking and producing same, Seamless knitted. H. McAdams. 2,171,452; Aug. 29.
Stone, Method and apparatus of making artificial. C. F. Baron. 2,170,936; Aug. 29.
Stopper for bottles, Siphon valve. M. Rosenwald and L. Ekes. 2,171,373; Aug. 29.
Stopper, Internal expansion. F. McAllister. 2,170,866; Aug. 29.
Strand-winding machine. W. A. Bellts. 2,171,119; Aug. 29.
Strip, Bimetallic. L. M. Persons. 2,171,344; Aug. 29.
Strip feeding and aligning mechanism. C. R. Mabon. 2,171,003; Aug. 29.
Sulphonates of polyaryl polyethers. H. A. Bruson. 2,171,498; Aug. 29.
Supercharger, Two-stage. W. A. Parkins. 2,170,974; Aug. 29.
Support: *See*—
Binding device and pencil support.
Map and like article support.
Supporter, Hose. W. J. Spencer. 2,171,012; Aug. 29.
Supporting structure for porcelain enameled pans. A. C. Maus. 2,171,221; Aug. 29.
Sweater. C. H. Martin. 2,171,220; Aug. 29.
Sweeper, Snow. J. A. Blazier. 2,171,075; Aug. 29.
Switch: *See*—
Adjustable thermostatic switch.
Disconnecting switch.
Electric snap switch.
Condition responsive switch.
Electric switch.
Delayed action switch.
Selective switch.
Switch. M. Nelsen and T. Obszarny. 2,171,044; Aug. 29.
Switch for miniature railway tracks, Frog and point. A. G. Freihoff. 2,171,357; Aug. 29.
Switch housing, Flametight. J. W. Herrick. 2,171,063; Aug. 29.
Switch retainer construction. M. Goff. 2,171,087; Aug. 29.
Table: *See*—
Dining table.
Sewing machine table.
Table for hearses, Casket. E. L. Schofield. 2,171,071; Aug. 29.
Tamper, Cotton. L. E. Haynes. 2,171,090.
Tamping plug. A. L. Madill. 2,170,929; Aug. 29.
Tape, Measuring. A. W. Keuffel and H. F. Schermerhorn. 2,171,504; Aug. 29.
Telegraph transmitter. C. W. Winter, Jr. 2,170,884; Aug. 29.
Telephone attachment, Ear and mouth. J. Moses. 2,171,311; Aug. 29.
Telephone system. H. E. Humphries and B. A. Hensler. 2,170,899; Aug. 29.
Telephone system. U. Kesten. 2,170,903; Aug. 29.
Telephonograph. H. Hipple. 2,171,366; Aug. 29.
Telephotographic objective. W. Merté. 2,171,274; Aug. 29.
Telescope observation instrument. J. M. Strang. 2,171,360; Aug. 29.
Terrestrial globe mounting. A. L. Peterson. 2,171,509; Aug. 29.
Tester, Formation. C. Iden. 2,171,000; Aug. 29.
Texture of rolled products, Improving the. F. Bartscherer. 2,171,074; Aug. 29.
Thermostatic control for multipass evaporators. J. L. Shrode. 2,171,407; Aug. 29.
Throttle control mechanism. E. J. Sampson. 2,171,456; Aug. 29.
Tie case. A. L. Branch. 2,171,077; Aug. 29.
Tie-holder construction. C. Silverman. 2,171,103; Aug. 29.
Tile cutting machine. N. C. Coates. 2,171,024; Aug. 29.
Time recorder mechanism. E. G. Streckfuss. 2,171,167; Aug. 29.
Tire carcass and inserting an air bag therein, Apparatus for expanding a. W. J. Breth and W. C. McCoy. 2,171,424; Aug. 29.
Tire tread, Manufacturing. J. P. Tarbox. 2,171,438; Aug. 29.
Tool: *See*—
Abrasive tool.
Grinding tool.
Carpenter's tool.
Pneumatic tool.
Finishing tool.
Tooth brush, Rotary. G. F. W. King. 2,171,308; Aug. 29.
Top construction. J. W. Park. 2,171,046; Aug. 29.
Torch or blowpipe, Cutting. C. F. Carroll. 2,170,793; Aug. 29.

Toy, Target. J. Bonnett and A. Schillace. 2,170,850; Aug. 29.
Tractor. E. F. Norelius. 2,171,508; Aug. 29.
Tractor attached implement. G. M. Kriegbaum and C. C. Hass. 2,171,034; Aug. 29.
Tractor implement. W. S. Graham and J. L. Hipple. 2,171,031; Aug. 29.
Transfer machine. C. L. Henderson. 2,170,895; Aug. 29.
Transformer, Induction heat. G. B. Ely. 2,171,080; Aug. 29.
Transmission apparatus. T. W. Paterson. 2,170,930; Aug. 29.
Transmission, Automatic. R. E. Keller. 2,170,926; Aug. 29.
Transmission control in signaling systems. K. H. Davis. 2,170,941; Aug. 29.
Transmission, Selective gear. W. F. Frock. 2,171,144; Aug. 29.
Tray or baseboard for use with loose leaf books. H. T. Bigg and S. H. Sunderland. 2,171,488; Aug. 29.
Trimming and reaming machine. E. W. Beekman, R. Haubursin, and E. E. Ward. 2,171,262; Aug. 29.
Trolley, Adaptable rail. R. Klima and P. Pellischek. 2,171,093; Aug. 29.
Truck and loader therefor, Dump. W. Venema. 2,170,932; Aug. 29.
Truck and spring bolster construction. E. H. Piron. 2,171,069; Aug. 29.
Truck, Automobile. M. V. Gilson. 2,171,030; Aug. 29.
Truck, Car. R. C. Hobson. 2,170,862; Aug. 29.
Tube: *See*—
Cathode ray tube.
Gaseous discharge tube.
Electron emitting screen tube.
Tube and electrode structure, Television transmitting. R. B. Janes. 2,171,213; Aug. 29.
Tube and forming same, Crinkled paper. E. D. Greene. 2,170,945; Aug. 29.
Tube cleaner. C. M. Griffin. 2,170,997; Aug. 29.
Tube closure, Collapsible. P. M. Grafe. 2,171,175; Aug. 29.
Tubing, Manufacture of ceramic. J. D. Morgan and R. E. Lowe. 2,171,006; Aug. 29.
Tuning condenser mounting. G. J. Barry. 2,171,441; Aug. 29.
Tuning indicator for radio receivers. W. Mahnken. 2,171,129; Aug. 29.
Turbine, Gas. P. J. Scanlan. 2,170,952; Aug. 29.
Underframe. A. G. Dean. 2,171,107; Aug. 29.
Undergarment. C. Bullinger. 2,171,354; Aug. 29.
Universal joint. H. J. De Coudres. 2,171,059; Aug. 29.
Universal joint. J. W. B. Pearce. 2,171,313; Aug. 29.
Utensil, Cooking. J. G. Wagner. 2,170,880; Aug. 29.
Vacuum cleaning apparatus. W. van Berkel. 2,171,248; Aug. 29.
Vacuum-producing apparatus. R. A. Bowman. 2,170,802; Aug. 29.
Valve: *See*—
Automatic check and shut-off valve.
Blow-off valve.
Multiple-way valve.
Vapor lamp. D. S. Gustin. 2,171,237; Aug. 29.
Vehicle brake. H. G. Eakin. 2,171,289; Aug. 29.
Vehicle construction. A. G. Dean and W. W. Farr. 2,171,425; Aug. 29.
Vehicle coupling. J. R. Thorp and S. Strand. 2,170,980; Aug. 29.
Vehicle draft means. R. N. Janeway. 2,170,924; Aug. 29.
Vehicle lighting unit. E. Hawkins. 2,171,089; Aug. 29.
Vehicle parking device. G. Yanocsik. 2,171,466; Aug. 29.
Wall construction for vehicle bodies, Side. R. M. Werner. 2,171,381; Aug. 29.
Water conditioner. W. M. Cissell. 2,171,266; Aug. 29.
Water, Purification of organically polluted. O. M. Urbain and W. R. Stemen. 2,171,203; Aug. 29.
Water-treating apparatus. E. Pick. 2,170,975; Aug. 29.
Wave forming and setting device. W. Huppert. 2,171,503; Aug. 29.
Wave system for two-way communication, Ultra short. W. Kriebel. 2,171,218; Aug. 29.
Wax applicator, Sealing. F. M. Van Fleet. 2,171,486; Aug. 29.
Welding rod. G. V. Ireland. 2,171,306; Aug. 29.
Welding strip and centrifugal casting. W. D. Sargent. 2,171,405; Aug. 29.
Well flowing means, Fluid. R. F. Muir. 2,171,402; Aug. 29.
Well packer. J. D. Nixon. 2,171,479; Aug. 29.
Well pump. W. Brauer. 2,171,171; Aug. 29.
Wells, Treatment of. P. G. Shelley. 2,171,011; Aug. 29.
Wheel and rudder for airplanes, Integral tail. H. W. Case. 2,170,808; Aug. 29.
Wheel balance tester. C. C. Bennett. 2,170,848; Aug. 29.
Wheel structure. R. H. Beckman. 2,171,170; Aug. 29.
Whip stock. S. G. Ackley. 2,171,020; Aug. 29.
Wind motor. H. H. Raulerson. 2,170,911; Aug. 29.
Windshield frame structure. A. T. Potter. 2,171,191; Aug. 29.
Windshield wiper clip. V. H. Christen. 2,170,939; Aug. 29.
Wiper, Wind-screen. J. Burnside. 2,171,393; Aug. 29.
Wire apparatus, Tie. E. W. Bullard. 2,171,120; Aug. 29.
Wire block, Water-cooled. C. E. Tideman. 2,171,461; Aug. 29.
Wire feed mechanism. J. M. Minkow. 2,170,830; Aug. 29.
Wrapping machine. J. W. Chalmers. 2,171,172; Aug. 29.
Wrapping material. J. Eggert and B. Wendt. 2,171,427; Aug. 29.
Wringer, Mop. C. C. Bennett. 2,171,387; Aug. 29.
X-ray system. J. F. Timmons. 2,171,134; Aug. 29.
X-ray unit, Continuous duty. W. S. Werner. 2,170,933; Aug. 29.

CHANGES IN PATENT LAWS

BY THE

76TH CONGRESS—1ST SESSION

[PUBLIC—No. 244—76TH CONGRESS]

[CHAPTER 396—1ST SESSION]

[H. R. 153]

An act to transfer jurisdiction over commercial prints and labels, for the purpose of copyright registration, to the Register of Copyrights.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That effective at the close of business June 30, 1940, section 3 of the Act entitled "An Act to amend the law relating to patents, trademarks, and copyprights", approved June 18, 1874 (17 U. S. C. 63), is hereby repealed, but all original or renewal copyrights effected thereunder shall continue in full force and effect for the balance of the respective unexpired terms, subject to all the rights and remedies accorded by existing copyright law.

SEC. 2. Section 5 (k) of the Act entitled "An Act to amend and consolidate the Acts respecting copyright" approved March 4, 1909, is hereby amended to read: "(k) Prints and pictorial illustrations including prints or labels used for articles of merchandise."

SEC. 3. That commencing July 1, 1940, the Register of Copyrights is charged with the registration of claims to copyright properly presented, in all prints and labels published in connection with the sale or advertisement of articles of merchandise, including all claims to copyright in prints and labels pending in the Patent Office and uncleared at the close of business June 30, 1940. All such pending applications and all fees which have been submitted or paid to or into the Patent Office for such pending applications, and all funds deposited and at the close of business June 30, 1940, held in the Patent Office to be applied to copyright business in that Office, shall be returned by the Commissioner of Patents to the applicants. There shall be paid for registering a claim of copyright in any such print or label not a trade-mark $6, which sum shall cover the expense of furnishing a certificate of such registration, under the seal of the Copyright Office, to the claimant of copyright.

SEC. 4. Subsisting copyrights originally registered in the Patent Office prior to July 1, 1940, under the provision of law repealed by section 1 hereof, shall be subject to renewal in behalf of the proprietor upon application made to the Register of Copyrights within one year prior to the expiration of the original term of twenty-eight years.

Approved, July 31, 1939.

[PUBLIC—No. 286—76TH CONGRESS]

[CHAPTER 450—1ST SESSION]

[H. R. 6872]

An act to amend sections 4886, 4887, 4920, and 4929 of the Revised Statutes (U. S. C., title 35, secs. 31, 32, 69, and 73).

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That sections 4886, 4887, 4920, and 4929 of the Revised Statutes (U. S. C., title 35, secs. 31, 32, 69, and 73) be amended by striking out the words "two years" wherever they appear in said sections and substituting therefor the words "one year".

SEC. 2. This Act shall take effect one year after its approval and shall apply to all applications for patent filed after it takes effect and to all patents granted on such applications: *Provided, however*, That all applications for patents filed prior to the time this Act takes effect and all patents granted on such applications are to be governed by the statutes in force at the time of approval of this Act as if such statutes had not been amended.

Approved, August 5, 1939.

[PUBLIC—No. 287—76TH CONGRESS]

[CHAPTER 451—1ST SESSION]

[H. R. 6873]

An act to amend sections 4904, 4909, 4911, and 4915 of the Revised Statutes (U. S. C., title 35, secs. 52, 57, 59a, and 63).

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 4904 of the Revised Statutes (U. S. C., title 35, sec. 52) be amended to read as follows:

"Whenever an application is made for a patent which, in the opinion of the Commissioner, would interfere with any pending application, or with any unexpired patent, he shall give notice thereof to the applicants, or applicant and patentee, as the case may be, and shall direct a board of three examiners of interferences to proceed to determine the question of priority of invention. And the Commissioner may issue a patent to the party who is adjudged the prior inventor."

SEC. 2. That section 4909 of the Revised Statutes (U. S. C., title 35, sec. 57) be amended to read as follows:

"Every applicant for a patent or for the reissue of a patent, any of the claims of which have been

twice rejected, may appeal from the decision of the primary examiner to the Board of Appeals, having once paid the fee for such appeal."

SEC. 3. That section 4911 of the Revised Statutes (U. S. C., title 35, sec. 59a) be amended by changing the words "Board of Appeals" in the second sentence to read "board of interference examiners", and by canceling the last sentence of said section.

SEC. 4. That section 4915 of the Revised Statutes (U. S. C., title 35, sec. 63) be amended by changing the first sentence thereof to read:

"Whenever a patent on application is refused by the Board of Appeals or whenever any applicant is dissatisfied with the decision of the board of interference examiners, the applicant, unless appeal has been taken to the United States Court of Customs and Patent Appeals, and such appeal is pending or has been decided, in which case no action may be brought under this section, may have remedy by bill in equity, if filed within six months after such refusal or decision; and the court having cognizance thereof, on notice to adverse parties and other due proceedings had, may adjudge that such applicant is entitled, according to law, to receive a patent for his invention, as specified in his claim or for any part thereof, as the facts in the case may appear."

SEC. 5. That this Act shall take effect two months after its approval; but it shall not affect interferences then pending, which may be heard and decided and appeals and other proceedings taken under the statutes in force at the time of approval of this Act as if such statutes had not been amended.

Approved, August 5, 1939.

[PUBLIC—No. 288—76TH CONGRESS]

[CHAPTER 452—1ST SESSION]

[H. R. 6875]

An act to amend section 4903 of the Revised Statutes (U. S. C., title 35, sec. 51).

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 4903 of the Revised Statutes (U. S. C., title 35, sec. 51) be amended by adding at the end thereof the following:

"No amendment for the first time presenting or asserting a claim which is the same as, or for substantially the same subject matter as, a claim of an issued patent may be made in any application unless such amendment is filed within one year from the date on which said patent was granted."

SEC. 2. This Act shall take effect one year after its approval.

Approved, August 5, 1939.

[PUBLIC—No. 341—76TH CONGRESS]

[CHAPTER 568—1ST SESSION]

[H. R. 6878]

An act to amend section 4894 of the Revised Statutes (U. S. C., title 35, sec. 37).

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 4894 of the Revised Statutes (U. S. C., title 35, sec. 37) be amended by inserting after "six months", second occurrence, the words "or such shorter time, not less than thirty days or any extensions thereof, as shall be fixed by the Commissioner of Patents in writing to the applicant".

Approved, August 7, 1939.

[PUBLIC—No. 358—76TH CONGRESS]

[CHAPTER 619—1ST SESSION]

[H. R. 6874]

An act to repeal section 4897 of the Revised Statutes (U. S. C., title 35, sec. 38), and amend sections 4885 and 4934 of the Revised Statutes (U. S. C., title 35, secs. 41 and 78).

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That section 4897 of the Revised Statutes (U. S. C., title 35, sec. 38) be repealed.

SEC. 2. That section 4885 of the Revised Statutes (U. S. C., title 35, sec. 41) be amended by adding at the end thereof the following: "*Provided, however*, That the Commissioner of Patents may in his discretion receive the final fee if paid within one year after the six months' period for payment has passed and the patent shall issue".

SEC. 3. That section 4934 of the Revised Statutes (U. S. C., title 35, sec. 78) be amended by changing the last sentence to read: "On filing each petition for the revival of an abandoned application for a patent or for the delayed payment of the fee for issuing each patent, $10."

SEC. 4. This Act shall take effect upon approval: *Provided, however*, That in all cases in which the notice of allowance had been sent prior to the time at which this Act takes effect the final fee may be paid and other proceedings may be taken under the statutes in force at the time of approval of this Act as if such statutes had not been amended or repealed.

Approved, August 9, 1939.

CLASSIFICATION OF PATENTS

ISSUED AUGUST 29, 1939

In view of the fact that the issue is being checked weekly by the Classification Division, the class and subclass in this list are correct as of this date. Where there is a discrepancy between the classification given in the patent head and the classification in this list, the classification of this list governs.

NOTE.—First number=class, second number=subclass, third number=patent number

2— 8: 2,171,052
27: 2,171,354
90: 2,171,220
93: Re.21,184
160: 2,171,440
206: 2,171,311
208: 2,170,960
4— 56: 2,171,447
106: 2,171,133
5— 119: 2,170,987
8— 10: 2,171,277
50: 2,171,159
114: 2,171,513
128: 2,171,241
11— 2: 2,171,126
12— 1: 2,170,864
2,170,920
31.5: 2,170,842
51: 2,170,823
123: 2,170,837
13— 11: 2,171,435
2,171,436
14— 16: 2,171,326
15— 79: 2,171,075
104.06: 2,170,997
160: 2,171,444
250: 2,170,939
2,171,393
263: 2,171,387
16— 104: 2,171,194
119: 2,171,322
121: 2,171,361
148: 2,171,021
172: 2,171,038
211: 2,171,252
17— 34: 2,171,196
18— 2: 2,171,424
8: 2,171,485
14: 2,171,095
17: 2,171,511
48: 2,170,919
55: 2,170,931
20— 19: 2,170,870
68: 2,171,070
71: 2,171,446
74: 2,171,036
91: 2,171,358
21— 74: 2,171,400
22— 80: 2,171,181
95: 2,171,141
200.1: 2,171,132
201: 2,171,229
219: 2,171,405
24— 33: 2,170,973
49: 2,171,103
101: 2,171,270
205: 2,171,335
2,171,455
2,171,496
206: 2,171,448
25— 2: 2,170,936
156: 2,171,006
26— 29: 2,170,968
28— 1: 2,171,324
59: 2,171,409
29— 18: 2,171,300
33: 2,171,262
61: 2,170,942
95: 2,171,325
148: 2,171,280
148.2: 2,171,111
153.1: 2,170,797
156: 2,170,811
157: 2,170,853
30— 43: Re.21,192
268: 2,171,468
317: 2,171,050
33— 6: 2,170,826
137: 2,171,504
33— 154: 2,170,986
172: 2,171,022
174: 2,170,824
35— 23: 2,170,971
46: 2,171,509
36— 12: 2,171,414
36: 2,171,045
37— 43: 2,171,056
184: 2,170,999
38— 40: 2,171,235
40— 16: 2,171,350
28: 2,170,985
2,171,079
32: 2,171,462
33: 2,171,054
34: 2,171,016
39: 2,171,246
130: 2,170,874
41— 9: 2,171,474
43— 46: 2,171,372
124: 2,171,315
148: 2,171,205
45— 7: 2,171,105
46— 149: 2,171,281
157: 2,170,953
213: 2,171,294
47— 23: 2,171,397
24: 2,170,822
57: 2,171,160
49— 5: 2,171,096
51— 9: 2,170,831
2,170,832
34: 2,171,271
62: 2,170,792
73: 2,171,417
78: 2,170,901
100: 2,171,211
107: 2,171,007
177: 2,171,060
204: 2,171,254
280: 2,171,081
2,171,082
2,171,083
52— 1: 2,170,943
11: 2,171,379
53— 3: 2,171,321
5: 2,171,510
6: 2,170,904
8: 2,170,880
56— 400: 2,171,025
59— 2: 2,170,810
60— 41: 2,170,952
54.6: 2,170,851
61— 58: 2,170,706
62— 2: 2,170,802
3: 2,171,239
8: 2,171,407
19: 2,171,317
91.5: 2,170,969
115: Re.21,189
140: 2,270,993
176: 2,170,992
64— 7: 2,171,059
17: 2,171,313
65— 63: 2,171,187
66— 9: 2,171,236
2,171,445
31: Re.21,190
180: 2,171,452
68— 25: 2,171,499
45: 2,171,072
190: 2,171,449
70— 14: 2,171,123
66: 2,170,957
306: 2,171,138
71— 38: 2,170,843
72— 1: 2,171,338
68: 2,171,001
105: 2,171,097
72— 120: 2,171,210
73— 51: 2,170,848
2,171,113
2,171,283
2,171,303
2,171,433
2,171,502
74— 89: 2,171,308
189.5: 2,171,146
219: 2,171,158
230.17: 2,170,838
233: 2,171,055
236: 2,170,925
262: 2,170,856
2,170,899
308: 2,170,951
342: 2,171,144
471: 2,170,982
484: 2,170,794
501: 2,171,073
531: 2,170,900
593: 2,171,192
2,171,287
75— 65: 2,170,863
72: 2,170,814
84: 2,171,439
125: 2,171,375
137: 2,171,391
76— 36: 2,171,169
47: 2,171,443
107: 2,171,323
108: 2,171,058
79— 7: 2,171,464
80— 66: 2,171,074
82— 23: 2,170,888
83— 9: 2,171,115
2,171,515
10: 2,171,429
11: 2,171,100
2,171,296
2,171,463
22: 2,171,465
46: 2,171,268
84— 1.15: 2,171,430
379: 2,171,128
85— 1: 2,171,163
86— 22: 2,171,371
87— 28: 2,170,872
88— 16.4: 2,171,269
17: 2,171,472
23: 2,171,260
24: 2,170,967
32: 2,171,360
57: 2,171,274
80: 2,171,481
92: 2,171,493
90— 5: 2,171,406
91— 68: 2,170,827
2,170,828
2,170,829
2,170,839
2,170,840
2,170,949
2,171,140
2,171,389
2,171,427
2,171,475
68.3: 2,171,086
92— 46: 2,171,312
66: 2,171,155
93— 2: 2,171,172
2,171,459
3: 2,171,131
35: 2,170,945
44: 2,171,418
85: 2,171,413
94— 11: Re.21,191
20: 2,171,153
94— 50: 2,171,098
2,171,255
95— 2: 2,170,883
7: 2,170,805
64: 2,170,959
73: 2,170,895
2,170,896
81: 2,171,276
97— 8: 2,171,451
47: 2,171,031
99— 109: 2,171,428
134: 2,171,244
140: 2,170,954
100— 25: 2,171,090
101—132.5: 2,171,061
154: 2,170,817
102— 6: 2,171,384
11: 2,170,929
24: 2,170,815
103— 87: 2,171,460
155: 2,171,171
203: 2,171,410
220: 2,170,881
232: 2,171,478
2,171,480
234: 2,171,402
105— 159: 2,171,093
190: 2,171,069
193: 2,170,862
253: 2,170,998
369: 2,170,913
399: 2,171,425
2,171,434
402: 2,171,107
456: 2,171,106
106— 21: 2,171,290
40: 2,170,845
107— 8: 2,171,039
15: 2,170,988
108— 5.4: 2,171,426
7: 2,171,010
8: 2,171,143
16: 2,171,319
109— 46: 2,171,263
111— 4: 2,171,067
44: 2,171,034
92: 2,171,037
112— 11: 2,171,130
214: 2,170,948
113— 52: 2,170,946
55: 2,171,297
80: 2,171,258
116: 2,171,195
120: 2,171,040
114— 39: 2,170,914
208: 2,170,889
116—124.1: 2,171,129
129: 2,171,183
120— 21: 2,170,867
29: 2,171,261
83: 2,171,188
121— 42: 2,171,005
123— 3: 2,171,184
33: 2,170,818
119: 2,170,974
124: 2,171,291
139: 2,171,209
169: 2,171,014
2,171,164
2,171,165
196: 2,171,257
125— 13: 2,171,024
128— 81: 2,171,247
97: 2,171,376
144: 2,171,337
224: 2,171,292
229: Re.21,187
129— 1: 2,171,488
23: 2,171,453
131— 232: 2,171,314
235: 2,171,489
132— 31: 2,171,422
2,171,503
33: 2,171,332
41: 2,171,122
46: 2,171,019
79: 2,171,339
134— 58: 2,170,800
2,170,940
135— 33: 2,171,476
137— 101: 2,171,266
104: 2,171,394
153: 2,171,190
138— 31: 2,170,890
139— 21: 2,171,367
140— 79: 2,170,984
93: 2,171,388
131: 2,170,830
150— 12: 2,170,841
154— 2: 2,170,947
14: 2,171,438
16: 2,171,118
40: 2,171,259
46: 2,171,505
2,171,506
50: 2,171,419
155— 14: 2,170,923
28: 2,171,251
116: 2,171,189
156— 17: 2,170,877
2,170,938
158— 7: 2,171,002
27.4: 2,170,793
164— 0.4: 2,171,442
93: 2,171,482
166— 1: 2,171,000
10: 2,171,049
12: 2,171,479
21: 2,171,011
2,171,416
167— 56: 2,170,921
74: 2,171,320
169— 19: 2,171,487
170— 28: 2,170,911
159: 2,170,865
171— 95: 2,171,216
123: 2,170,816
2,170,861
209: 2,170,892
242: 2,171,512
327: 2,171,243
329: 2,171,242
172— 237: 2,170,836
173— 322: 2,171,331
175— 30: 2,171,351
41: 2,171,127
2,171,231
182: 2,170,857
183: 2,170,813
2,170,964
2,170,965
2,170,977
2,171,363
320: 2,171,124
2,171,348
336: 2,171,333
365: 2,171,279
176— 1: 2,171,359
32: 2,171,431
34: 2,171,336
176— 55: 2,171,027
122: 2,171,234
2,171,237
126: 2,171,238
177— 311: 2,171,152
2,171,156
329: 2,171,349
352: 2,171,173
178— 44: 2,170,878
2,170,941
2,171,048
2,171,219
66: 2,170,884
179— 6: 2,171,366
16: 2,170,885
18: 2,170,903
27: 2,170,899
100.3: 2,170,962
171: 2,170,873
2,171,150
171.5: 2,170,812
180— 1: 2,171,466
33: 2,171,042
54: 2,171,091
2,171,092
82: 2,171,401
2,171,457
181— 0.5: Re.21,183
183— 15: 2,170,902
83: 2,171,248
106: Re.21,185
184— 3: 2,170,917
188— 5: 2,171,352
10: 2,171,396
56: 2,171,514
71: 2,170,893
78: 2,171,186
2,171,289
195: 2,171,392
196: 2,171,403
243: 2,171,307
189— 1: 2,171,374
3: 2,171,121
36: 2,171,076
49: 2,171,065
76: 2,171,454
88: 2,171,221
192— .01: 2,170,868
2,170,875
2,170,905
2,171,456
3: 2,171,204
4: 2,171,473
8: 2,171,458
59: 2,170,930
103: 2,171,385
105: 2,170,926
134: 2,171,467
194— 61: 2,171,345
85: 2,171,492
103: 2,170,897
196— 4: 2,171,328
10: 2,171,207
27: 2,171,009
36: 2,171,033
48: 2,170,795
52: 2,170,976
147: 2,171,377
197— 36: 2,171,470
133: 2,171,003
198— 25: 2,171,193
33: Re.21,188
108: 2,171,330
168: 2,170,934
199— 50: 2,171,500
200— 11: 2,171,044
38: 2,171,370
48: 2,171,182

200— 52: 2,171,329
2,171,450
54: 2,171,245
97: 2,171,114
106: 2,171,267
111: 2,170,961
115: 2,171,179
139: 2,171,272
2,171,273
168: 2,171,063
2,171,368
202— 42: 2,170,834
59: 2,170,972
204— 6: 2,171,437
205— 20: 2,171,461
206— 7: 2,171,077
15: 2,171,017
2,171,018
44: 2,170,906
56: 2,171,112
57: 2,171,415
207— 2: 2,171,062
10: 2,171,180
209— 326: 2,171,355
210— 2: 2,171,197
2,171,199
2,171,201
2,171,203
24: 2,170,975
164: 2,171,004
204: 2,171,484
211— 42: 2,170,994
71: 2,171,035
93: 2,170,799
151: 2,171,110
213— 71: 2,170,908
74: 2,170,924
127: 2,170,891
146: 2,170,907
197: 2,171,343
214— 1: 2,171,404
67: 2,170,932
91: 2,171,386
215— 4: 2,171,373
43: 2,171,015
216— 47: 2,171,085
218— 19: 2,171,029
219— 8: 2,171,306
10: 2,170,859
21: 2,171,486
47: 2,171,080
220— 24.5: 2,170,866
44: 2,171,168
89: 2,170,937
221— 23: 2,171,094
24: 2,171,302
60: 2,171,175
62: 2,170,955
95: Re.21,186
2,171,125
223— 12: 2,171,102
57: 2,171,356
92: 2,171,301
[118: 2,171,310
224— 29: 2,171,053
225— 1: 2,171,142
5: 2,170,922
226— 81: 2,170,821
229— 6: 2,171,309
35: 2,171,051
230— 3: 2,171,285
2,171,286
21: 2,170,846
132: 2,171,341
2,171,342
233— 22: 2,171,136
234— 32: 2,170,858
43: 2,171,167
67: 2,171,327
235— 133: 2,171,477
236— 1: 2,171,099
9: 2,171,380
44: 2,171,109
91: 2,171,147
240— 3: 2,170,882
7.1: 2,170,791
8.2: 2,171,089
10: 2,171,116
10.68: 2,171,304
11.3: 2,170,871
240— 41.3: 2,170,979
93: 2,170,912
108: 2,171,137
241— 5: 2,171,012
242— 4: 2,171,119
130: 2,171,101
244— 13: 2,170,958
42: 2,170,886
2,170,887
57: 2,171,047
78: 2,171,265
109: 2,170,808
246— 227: 2,171,278
274: 2,171,357
448: 2,171,087
248— 16: 2,171,032
44: 2,171,228
123: 2,171,028
224: 2,171,497
250— 2: 2,171,293
9: 2,171,151
2,171,218
11: 2,170,835
2,170,852
2,170,860
2,171,432
16: 2,171,441
20: 2,171,135
2,171,139
2,171,148
2,171,154
27: 2,170,819
2,170,847
2,171,347
2,171,409
27.5: 2,171,213
2,171,215
2,171,224
2,171,225
2,171,226
2,171,227
2,171,249
33: 2,170,849
2,171,256
40: 2,170,820
250— 41.5: 2,171,362
81: 2,171,145
87: 2,170,933
91: 2,171,134
150: 2,170,944
2,171,214
166: 2,171,233
175: 2,171,212
177: 2,171,250
251— 26: 2,171,178
252— 2: 2,171,408
5: 2,171,491
254— 67: 2,171,066
2,171,120
86: 2,170,910
255— 1: 2,170,916
2,171,020
19: 2,171,177
23: 2,171,176
71: 2,171,057
256— 13.1: Re.21,182
257— 7: 2,170,991
8: 2,171,088
139: 2,171,253
230: 2,171,369
259— 1: 2,171,398
2,171,399
260— 24: 2,170,950
27: 2,171,334
107: 2,170,956
169: 2,171,364
232: 2,171,222
240: 2,170,803
2,170,804
2,170,806
2,170,807
294: 2,171,420
412: 2,171,198
2,171,200
2,171,202
437: 2,171,423
457: 2,171,166
461: 2,170,833
473: 2,170,995
2,170,996
260— 512: 2,171,498
513: 2,171,117
532: 2,170,825
594: 2,170,855
602: 2,170,854
612: 2,170,809
2,170,989
2,170,990
613: 2,171,495
623: 2,171,494
662: 2,170,801
683: 2,171,250
768: 2,171,395
787: 2,171,305
793: 2,171,421
262— 28: 2,170,927
2,170,928
2,171,043
2,171,161
30: 2,171,162
263— 6: 2,171,340
11: 2,171,232
19: 2,171,275
52: 2,171,353
53: 2,171,507
264— 1: 2,171,298
265— 10: 2,171,026
58: 2,170,798
266— 4: 2,170,876
267— 9: 2,171,064
21: 2,171,149
22: 2,171,185
55: 2,171,206
271— 59: 2,170,894
272— 1: 2,170,935
273— 33: 2,171,299
[73: 2,171,223
[77: 2,171,393
[80: 2,171,483
[81: 2,171,382
102: 2,170,850
102.1: 2,171,295
132: 2,170,909
277— 20: 2,171,316
63: 2,171,240
280— 33.1: 2,170,898
33.15: 2,170,980
2,170,983
41: 2,171,013
51: 2,171,068
87.05: 2,170,978
112: 2,171,469
281— 33: 2,171,411
285— 60: 2,171,288
91: 2,170,963
122: 2,171,217
286— 16: 2,170,915
287— 1: 2,171,078
85: 2,171,157
290— 4: 2,170,918
2,171,346
38: 2,171,008
292— 185: 2,171,174
201: 2,171,365
293— 55: 2,170,981
57: 2,171,104
296— 16: 2,171,071
30: 2,171,381
44: 2,171,412
84: 2,171,191
104: 2,171,046
297— 15: 2,171,344
298— 7: 2,171,030
299— 9: 2,171,471
95: 2,171,501
154: 2,171,023
301— 11: 2,171,170
304— 3: 2,171,284
305— 8: 2,171,508
306— 41: 2,170,966
308— 73: 2,171,268
149: 2,170,879
187: 2,171,390
309— 7: 2,170,970
312— 30: 2,171,318
114: 2,171,378
151: 2,171,084

This list shows the correct classification of those patents wherein the classification given in the patent head has been changed.

Re.21,185: 183— 106
2,170,791: 240— 7.1
2,170,811: 29— 156
2,170,812: 179—171.5
2,170,819: 250— 27
2,170,876: 266— 4
2,170,908: 213— 71
2,170,919: 18— 48
2,170,957: 70— 66
2,170,961: 200— 111
2,170,972: 202— 59
2,171,036: 20— 74
2,171,085: 216— 47
2,171,124: 175— 320
2,171,153: 94— 20
2,171,173: 177— 352
2,171,185: 267— 22
2,171,212: 250— 175
2,171,227: 250— 27.5
2,171,239: 62— 3
2,171,254: 51— 204
2,171,263: 109— 46
2,171,264: 143— 38
2,171,285: 230— 3
2,171,286: 230— 3
2,171,305: 260— 787
2,171,317: 62— 19
2,171,325: 29— 95
2,171,334: 29— 27
2,171,379: 52— 11
2,171,395: 260— 768
2,171,398: 250— 1
2,171,399: 259— 1
2,171,407: 62— 8
2,171,408: 252— 2
2,171,420: 260— 294
2,171,423: 260— 437
2,171,430: 84— 1.15
2,171,441: 250— 16
2,171,494: 260— 623
2,171,498: 260— 512

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CONTENTS

	Page
ISSUE OF AUGUST 1, 1939	1
NOTICES OF CANCELLATION	1
ADJUDICATED PATENTS	1
APPLICATIONS UNDER EXAMINATION	2
DECISIONS OF THE U. S. COURTS—	
In re Roe	3
Brown, Jr., v. Barton	5
PATENT SUITS	9
DISCLAIMERS	10
TRADE-MARKS PUBLISHED (144 APPLICATIONS)	11
TRADE-MARK REGISTRATIONS GRANTED	29
TRADE-MARK REGISTRATIONS RENEWED	41
LABELS	42
PRINTS	42
REISSUES	43
PATENTS GRANTED	45
DESIGNS	206

August 1, 1939

Trade-Marks	302—No.	369,556 to No.	369,857, inclusive.
T. M. Renewals	24		
Labels	25—No.	53,315 to No.	53,339, inclusive.
Prints	6—No.	17,521 to No.	17,526, inclusive.
Reissues	5—No.	21,166 to No.	21,170, inclusive.
Patents	688—No.	2,167,619 to No.	2,168,306, inclusive.
Designs	103—No.	115,901 to No.	116,003, inclusive.
Total	1,153		

Notices of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., July 5, 1939.*

Lourania N. Smith, her assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office by The Knox Company, 1651 North Argyle, Los Angeles, Calif., to effect the cancellation of trade-mark registration of Lourania N. Smith, Liberty, Mo., No. 197,483, dated April 21, 1925, and the notice of such proceeding sent by registered mail to the said Lourania N. Smith at the said address and reforwarded to her at Hotel Delmonte, 5630 Delmar Boulevard, St. Louis, Mo., having been returned by the post office undeliverable, notice is hereby given that unless said Lourania N. Smith, her assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, D. C., July 15, 1939.*

Hercules Petroleum Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Dryer, Clark & Dryer Oil Company, 701 West Noble Avenue, Oklahoma City, Okla., to effect the cancellation of trade-mark registration No. 154,969, issued May 16, 1922, to Hercules Petroleum Company, American Exchange National Bank Building, Dallas, Tex., and a notice of such proceeding sent by registered mail to said Hercules Petroleum Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Hercules Petroleum Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Adjudicated Patents

(D. C. N. Y.) Richter patent, No. 1,695,609, for tailboard and tailboard mounting for trucks and the like, claims 1, 2, and 4 *Held* valid and infringed. *Perfect Tailboards, Patented,* v. *National Bent Steel Corporation,* 27 F. Supp. 550.

(C. C. A. Mich.) Gellman patent, No. 2,024,414, for bread-slicing machine, claims 4 and 5 *Held* invalid. *Oliver Machinery Co.* v. *Gellman,* 104 F.(2d) 11.

(C. C. A. Calif.) Kermin patent, No. 2,028,838, for container and dispenser, claims 2 and 3 *Held* invalid. *Bramlett* v. *National Unit Corporation,* 104 F.(2d) 17.

(D. C. Iowa.) Blanc patent, No. 2,069,871, for cutter member for cleaning drain pipes, claim 6 *Held* not infringed. *Blanc* v. *Weston,* 27 F. Supp. 530.

(C. C. A. Calif.) McIvor patent, No. 2,082,712, for insect exterminator, claims 1, 2, 4, and 5 *Held* invalid. *McIvor* v. *Chemurgic Corporation,* 104 F.(2d) 58.

(D. C. N. Y.) Lewy design patent, No. 91,490, for design for an advertising display card, *Held* not infringed. *Lewy* v. *Hoffman Beverage Co.,* 27 F. Supp. 533.

(D. C. N. Y.) Lewy design patent, No. 93,564, for design for an advertising display card, *Held* not infringed. *Id.*

(D. C. N. Y.) Viehmann design patent, No. 98,788, for design for a kitchen table or the like, *Held* valid and infringed. *Viehmann* v. *D. F. H. Novelty Furniture Co.,* 27 F. Supp. 566.

(D. C. Ill.) Kiefer patent, No. 1,572,150, for filling machine, *Held* not infringed. *Karl Kiefer Mach. Co.* v. *U. S. Bottlers Machinery Co.,* 27 F. Supp. 300. (To correct notice appearing on page 1, volume 504, of the OFFICIAL GAZETTE.)

Condition of Applications Under Examination at Close of Business July 15, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 45,266; Trade-Mark Division, 1,450. Oldest new case, Dec. 23, 1938; oldest amended, Dec. 16, 1938.)
(The dates given are 1939 except where † indicates 1938)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Feb. 16	Feb. 18	709
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Feb. 11	Feb. 20	708
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 19	May 15	418
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Apr. 12	Apr. 4	482
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Apr. 15	Apr. 21	487
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Feb. 6	Feb. 9	1004
5725	7. JARBOE, C. G., Optics; Photography	Mar. 21	Mar. 13	938
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Feb. 8	Jan. 16	1186
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 13	Mar. 8	754
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Mar. 24	Mar. 24	613
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 23	Mar. 30	458
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Jan. 15	Jan. 4	580
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Feb. 3	Feb. 8	753
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	May 3	May 3	455
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Feb. 28	Feb. 28	1216
5716	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 17	Feb. 16	848
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 14	Mar. 11	599
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Jan. 28	Feb. 2	557
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Apr. 27	Apr. 11	415
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Apr. 3	Apr. 4	400
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 13	Feb. 23	529
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Feb. 8	Feb. 8	934
7624	23. BUTTNER, W. J., Registers (part)	Jan. 11	Jan. 5	301
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Jan. 26	Jan. 23	1210
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 15	Apr. 15	492
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Mar. 1	Feb. 25	629
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Dec. 23	†Dec. 16	1235
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Mar. 16	Mar. 13	469
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Feb. 7	809
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Feb. 10	Feb. 15	845
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Apr. 1	Apr. 4	670
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Apr. 1	Apr. 4	398
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	Apr. 26	Apr. 15	748
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Apr. 17	Apr. 20	344
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 21	Mar. 24	607
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Feb. 10	Feb. 21	608
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 6	Apr. 1	607
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stoneworking; Wells; Plastic Compositions.	Jan. 7	Jan. 16	799
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Mar. 31	Mar. 25	621
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Feb. 11	Feb. 13	1560
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Jan. 28	Feb. 3	371
5882	42. CUTTING, H. O., Electric Signaling	Jan. 16	Jan. 13	622
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Mar. 11	Mar. 8	584
4087 B	44. HARVEY, L. P., Refrigeration	Feb. 15	Feb. 16	729
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Mar. 25	Mar. 18	632
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Feb. 15	Feb. 15	747
6082	47. LOWE, E. R., Clutches; Brakes	Mar. 18	Mar. 24	406
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 15	Apr. 15	474
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Jan. 10	Jan. 11	1109
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Jan. 18	Jan. 18	1295
5628	51. BACKUS, C. D., Radiant Energy (part)	Apr. 19	Apr. 19	722
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Mar. 2	Mar. 14	813
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Mar. 24	Mar. 24	521
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 28	Mar. 29	382
5883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Jan. 15	Jan. 15	666
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Feb. 15	Feb. 15	1192
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horseshoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Mar. 17	Apr. 22	454
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Mar. 31	Mar. 20	428
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Mar. 21	Mar. 25	592
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Mar. 11	Mar. 13	434
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Feb. 20	Feb. 15	529
5621	62. PUGH, E. C., Games; Geometrical Instruments	Apr. 26	Apr. 25	518
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Jan. 21	Feb. 2	768
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Mar. 24	Mar. 18	864
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Mar. 3	Feb. 27	602
3099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND — Trade-Marks	June 1	June 13	1,400
	Labels and Prints	July 11	July 14	50
2605	Designs: H. H. KALUPY	June 9	June 18	819

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

In re Roe

No. 4,091. Decided February 6, 1939

[102 F.(2d) 200]

Patentability—Refrigeration System and Method of Refrigeration.

Certain claims for a refrigeration system and certain claims for a process of refrigeration *Held* unpatentable over the prior art.

Appeal from Patent Office. Affirmed.

Mr. A. Yates Dowell for Roe.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

Bland, *J.*:

Having allowed claims 13, 19, and 22 in appellant's application, in which were both method and apparatus claims, for a patent relating to air conditioning, the Primary Examiner of the United States Patent Office refused to allow claims 11, 17, 20, 21, 23, and 25 to 28, inclusive, for reasons which will be referred to hereinafter. Upon appeal to the Board of Appeals, the decision of the Examiner rejecting said claims was affirmed. Appellant has appealed here from the decision of the Board of Appeals.

Claims 11, 20, 26, and 27 are regarded as illustrative and follow:

11. A refrigeration system including: an evaporator and condenser having connections with one another, the whole arranged to constitute a cyclic passage and maintained under relatively high vacuum; and a reaction-type power-drivable axial-blade-screw compressor in said cyclic passage and in compressive relation from said evaporator to said condenser.

20. A refrigeration system including: an evaporator and condenser having connections with one another, the whole arranged to constitute a cyclic passage and maintained under relatively high vacuum; a reaction-type multi-stage power-drivable axial-blade-screw compressor in said cyclic passage and in compressive relation from said evaporator to said condenser; and a fluid refrigerant in said cyclic passage and the boiling point of which at atmospheric pressure is above 70° F.

26. In a refrigeration system utilizing water as a refrigerant, a compressor, a condenser and an evaporator all connected in the order named in a closed circuit, said compressor being of the multi-stage reaction turbo-type, whereby the relatively large volume of gaseous refrigerant leaving the evaporator of the system is compressed to the proper condensing pressure in a relatively small practical and efficient machine.

27. The process of refrigeration comprising the evaporation of a refrigerant of such characteristics that its volume is relatively large when in a gaseous state, sucking in one direction the vapor from the surface of liquid refrigerant, increasing the pressure of said vapor, again sucking said vapor in the same direction at a higher pressure and again increasing the pressure of said vapor.

The references relied upon by the Patent Office tribunals are as follows: Worthen, 1,463,110, July 24, 1923; Leblanc-Vickers (Germany), 489,194, February 3, 1926; Carrier, 1,575,818, March 9, 1926; Weaver, 1,761,551, June 3, 1930.

Applicant's invention, as defined by some of the rejected claims, relates to a refrigerating system of the compressor-condenser-evaporator type utilizing a refrigerant having a relatively large volume when in the gaseous state and a compressor of the multi-stage reaction turbo-type. The refrigerant, which applicant states he uses, is water.

The Examiner in rejecting the claims, used the following language:

The appealed claims are each rejected as drawn to an old combination shown in the Carrier patent. The substitution of applicant's compressor for Carrier's in Carrier's combination is not believed to make a new combination (See *In re McNeil*, 1902 C. D. 563; 100 O. G. 2178; 20 App. D. C. 294). Nor is the substitution of water for Carrier's CCl_4 believed to effect such a combination. Carrier clearly discloses the general combination of a compressor, condenser and evaporator in which the refrigerant circulated (CCl_4) is of such a nature that it occupies a relatively large volume when in a gaseous state. Furthermore, Carrier's multi-stage rotary compressor is designed to take care of large volumes of evaporated refrigerant. * * *

* * * * * * * *

The appealed claims are each rejected as presenting no invention over Carrier in view of Leblanc-Vickers taken with Worthen. These claims differ from Carrier, who clearly discloses the general combination to be old, in that they recite the utilization of a somewhat different form of compressor and refrigerant from that specified by the patentee. Applicant's compressor, however, is nicely depicted and described in the drawings and specification, respectively, of the Worthen patent. Applicant, furthermore, is not first in making use of water as a refrigerant which fact is apparent from the disclosure in the Leblanc-Vickers patent (or the Weaver patent). Carrier, by his adoption of CCl_4, as his refrigerant, had before him the problem of removing from his evaporator and compressing large volumes of refrigerant vapor. To this end he selected a multiple stage rotary compressor for utilization in his system. The substitution for CCl_4 of an old refrigerant (water), the vapor of which has even a larger "cubic feet per pound" ratio than CCl_4 and the utilization of a multi-stage reaction turbo-type compressor in place of Carrier's multi-stage rotary compressor, in order that the correspondingly larger volume of water vapor might be handled, in Carrier's combination, in view of the Leblanc-Vickers patent taken with the Worthen patent, is not deemed to involve invention.

Conclusion

I. The appealed claims are each finally rejected as drawn to an old combination shown in Carrier's patent.
II. The appealed claims are each finally rejected as presenting no invention over Carrier's teachings in view of the Leblanc-Vickers and the Worthen disclosures.

The Board recited the grounds of rejection of the Examiner without disapproving of his reasoning or conclusion. We find the following in the decision of the Board:

* * * with regard to the refrigerant, the patentee [Carrier] states that the refrigerant should have relatively large vapor volumes, that the carbon tetrachloride refrigerant is non-explosive, non-inflammable and is safe to be used in a refrigerating system because all of the parts, including the evaporator, exhauster and condenser, are under a vacuum and that the liquid itself can be handled almost like water under atmospheric pressures and is entirely harmless.

In view of these suggestions as to the capacity and analogy of the refrigerant used in the Carrier patent to water, and to the conditions in the compressor being similar to the conditions in a steam turbine, it is believed that the rejections of the Examiner are proper.

More definitely stated, it seems to be the view of the Examiner and the Board that it did not require invention on the part of applicant to use water as a refrigerant in Carrier's multi-stage rotary compressor in view of the fact that it was old in the art to use multi-stage reaction turbo-type compressors in the art and in further view of the fact that Carrier taught the use, under vacuum, of a refrigerant, carbon tetrachloride, which was non-explosive, non-inflammable and had a relatively large vapor volume. As a matter of good measure, the Examiner cited the patents to Leblanc-Vickers and to Weaver which show the use of water as a refrigerant. The Board, however, did not specifically apply the two last-referred-to

references but stated: "the conditions in the compressor being similar to the conditions in a steam turbine."

In claims 11, 17, and 21 there is no suggestion of the use of water as a refrigerant. In claim 20 the refrigerant is defined as being one with a boiling point at atmospheric pressure of above 70° F. The same limitation is found in claim 23. Water as a refrigerant is specifically provided for in claim 26, while claim 27, as well as claims 25 and 28 call for a refrigerant having a relatively large volume in its gaseous state. Claims 25 to 28, inclusive, were added for purposes of appeal.

Unquestionably the prior art specifically taught the use of a refrigerant which had a volume relatively large when in a gaseous state and this element would add nothing inventive to the claims. It is also clear that it was old in the art to use water as a refrigerant. The question therefore is presented, did it require invention in view of the teachings of Carrier, who used a refrigerant of relatively large volume in a gaseous state, such as carbon tetrachloride, to use water which produced a greater volume of vapor than any other refrigerant known to the art in a compressor of the multi-stage reaction turbo-type, such a compressor being disclosed in the Worthen patent.

It seems to us that Carrier by the use of his device found out that he was able to use a refrigerant, the volume of which was relatively large in a gaseous state, and that one skilled in the art who wished to use water as a refrigerant to accomplish the purpose which Carrier accomplished would have no difficulty, after he had examined the prior art references, in doing what appellant has done without the exercise of the inventive faculty.

Appellant argues that this court's decision in *In re Wessblad*, 19 C. C. P. A. (Patents) 1175, 58 F.(2d) 418, 422 O. G. 309, should have been regarded as controlling by the Patent Office and should be regarded as controlling of our decision. In that case the applicant's combination claims which related to an air-cooled absorption refrigerating apparatus were rejected upon four references. The character of the refrigerant used was not relied upon to impart invention. The court stated the issue as:

> • • • The sole question, therefore, is whether invention was involved in modifying the Von Platen disclosure, in view of the other references, by substituting for its cooling system the cooling apparatus disclosed in the patent to Darlington.

The court held, after commenting on certain features of the references, that:

> • • • considering the references in connection with appellant's combination, its admitted novelty, usefulness, and the distinct advancement it made in the absorption refrigerating art, we are out of accord with the conclusion reached by the Patent Office tribunals. We think the claims are patentable.

It will be noticed that it was upon a consideration of the showing or lack of showing of the references together with the other admitted elements which brought the court to the conclusion that the claims there involved defined invention.

In *In re Barsky*, 20 C. C. P. A. (Patents) 779, 62 F.(2d) 192, 428 O. G. 518, which involved an alleged invention relating to a refrigerating system of the absorption type, the same argument with reference to the controlling influence of the case of *In re Wessblad*, supra, was made as is made here, and in answer to that argument the court said:

> It is contended by counsel for appellant that the decision of the Board of Appeals, in the case at bar, should be reversed on the authority of the decision of this court in the case of *In re Wessblad*, 19 C. C. P. A. (Patents) 1175, 58 F.(2d) 418, because, it is argued, the court there held that the substitution of air cooling for water cooling in refrigerating systems of the absorption type, "where novelty, usefulness, and a distinct advancement in the art is admitted", involved invention.
>
> That is not a correct statement of the holding of the court in that case.
>
> The court there held that, considering the novelty and usefulness of the apparatus involved and the distinct advancement it made in the art, *in connection with the references of record*, the claims were patentable. [Italics quoted.]

The references in the case of *In re Wessblad*, supra, are not the same references as are relied upon by the Patent Office tribunals in the instant case and their application to the invention there involved is quite different from their application to the claims at bar. We find nothing in the case of *In re Wessblad*, supra, which requires a reversal of the decision of the Board of Appeals in the instant case.

Appellant's chief contention is that his great problem was in devising a system which could utilize water as a refrigerant which was known to have the quality of producing a greater volume when vaporized than any other material used as a refrigerant. Were it not for the teaching of Carrier of the beneficial use of a refrigerant which had a relatively large volume when in a gaseous state there might be more merit to appellant's contention that it required invention to make the substitution of elements shown in the prior art in his combined apparatus and method.

Appellant has assigned error in the action of the Board of Appeals—

> "in failing to recognize that claims 27 and 28 are process claims and should not have been included in the general rejection of claims on the structural references."

Appellant argues that the process as defined by claims 27 and 28 cannot be said to be an old combination since the steps included therein are clearly not disclosed in any one of the references. It is further contended that the process claims being based upon the structure are not met by the showing of the structure of the cited patents since they do not meet the process steps recited in the claims.

While there has been no rejection on the part of the Patent Office tribunals on the ground that the process claims are not allowable for the reason that they define merely the operation of appellant's apparatus (and there has been no requirement for division), it seems clear that the alleged inventions are so closely related that if there is no invention in producing the apparatus there can be no possible invention, for the same reasons, in the method claims which are based on the steps of performance of the apparatus. As to this assignment of error we think appellant's contentions are wholly without merit.

It is our view that the tribunals of the Patent Office arrived at the correct conclusion, and the decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

BROWN, JR., *v.* BARTON

No. 4,070. Decided February 6, 1939

[102 F.(2d) 193]

1. INTERFERENCE—REDUCTION TO PRACTICE—DILIGENCE.
   "It is elementary that, where diligence is involved in reducing an invention to practice, diligence must be established at and immediately before the opposing party entered the field, and it must continue until there is an actual or constructive reduction to practice by the party claiming diligence."
2. SAME—SAME—SAME.
   "If an attorney shall fail to exercise reasonable diligence in preparing an application, such lack of diligence will be imputed to his client, but the courts have been very liberal in their holdings with respect to lack of diligence of an attorney."
3. SAME—PRIORITY.
   Evidence reviewed and *Held* that the junior party, Barton, although the first to conceive, failed to show diligence in reducing the invention to practice at and immediately prior to the filing date of the senior party, Brown, and that priority should have been awarded to Brown.

APPEAL from Patent Office. Reversed.

Messrs. Howson and Howson, Mr. Charles H. Howson and *Mr. William A. Smith, Jr.* (*Mr. F. A. Bothwell* of counsel) for Brown, Jr.

Mr. Harry G. Grover and *Mr. James G. Norton* (*Mr. Abraham S. Greenberg* of counsel) for Barton.

LENROOT, *J.:*

This is an appeal in an interference proceeding wherein the Board of Appeals of the United States Patent Office affirmed a decision of the Examiner of Interferences awarding priority of invention to appellee upon two counts there in issue. No appeal was taken with respect to count 2, and count 1 is the only one before us.

The interference is between appellant's application filed on September 24, 1932, and an application of appellee filed on November 3, 1932.

Count 1 reads as follows:

> 1. A carrier wave detecting system comprising a source of modulated carrier waves, a diode rectifier network including a cathode, an anode and a resonant circuit connecting the cathode and anode, said circuit being tuned to a desired carrier frequency, a pair of load resistors connected in series with each other and connecting said cathode and anode, an audio output network including an electron discharge device, the space current circuit of said device including the load resistor nearest said diode cathode whereby the space current of said device traverses said last load resistor, a control electrode disposed in the space current path of said device and being connected to the diode anode side of the load resistor nearest the diode anode, and means electrically associated with the last named resistor for preventing the impression of the carrier component of rectified waves upon said control electrode.

The subject matter of the interference relates to a detector system for a radio receiver, the detector system having incorporated therein means to provide "noise suppression." In view of the questions before us for determination, the count sufficiently describes the invention involved.

Both parties filed preliminary statements. Appellee alleged conception and reduction to practice of the invention as defined in count 1 during the period between March 24, 1932, and April 27, 1932.

Inasmuch as appellant relies upon the filing date of his application for conception and constructive reduction to practice of the invention, it is unnecessary to set forth the dates alleged in his preliminary statement.

Only the appellee took testimony.

It appears that the Radio Corporation of America is the assignee of appellee's application, and that the Philadelphia Storage Battery Company is the assignee of appellant's application.

That the counts are supported in the disclosures of both applications is conceded.

There are three questions involved in this appeal, viz.: 1, whether appellee has established conception of the invention prior to appellant's filing date; 2, whether appellee has established reduction to practice of the invention prior to appellant's filing date; and 3, if appellee has established conception of the invention prior to appellant's filing date, but not its reduction to practice prior thereto, was appellee diligent in reducing his invention to practice from immediately prior to appellant's filing date until he filed his application, it being conceded that appellee had no actual reduction to practice between appellant's filing date and his own filing date.

It appears that appellee was an employee of his assignee. With respect to appellee's proof a very unusual situation is presented, in that appellee has not directly testified to his conception of the invention as set forth in said count. When the testimony was taken, appellee testified that a certain sketch prepared by him prior to April 26, 1932, and marked Exhibit 2, embodied his conception of the invention as set forth in count 1. Said Exhibit 2 was offered in evidence and apparently it was not until final hearing that it was discovered that said Exhibit 2 does not disclose the element of the count reading: "a pair of load resistors connected in series with each other and connecting said cathode and anode." Nowhere in his own testimony does appellee mention this element of the count, and it is not seriously contended here that it is disclosed in said Exhibit 2. At any rate the Examiner of Interferences and the Board of Appeals held that it was not disclosed in said Exhibit 2. Neither did any of the witnesses on behalf of appellee mention the element of the count above quoted, although one witness, Chambers, an employee of appellee's assignee, testified that in the spring of 1932 he assisted appellee in constructing a model of a radio receiver, and while upon the witness stand he drew a sketch illustrating the circuits on said model. Said sketch was introduced in evidence as Exhibit 14. The Examiner of Interferences held that this sketch supported all of the elements of count 1. In his decision he stated:

> The witness Chambers testifies that he remembers the circuit of the receiver which he saw constructed and draws the circuit diagram introduced as Exhibit 14 as the circuit he remembers. This circuit admittedly sup-

ports count 1 but it appears that the testimony relating thereto is entitled to very little weight.

This circuit diagram was drawn by Chambers nearly four years after discussing the receiver with Barton and the probability that Chambers' recollection might be confused with some later circuit is so great that no evidential value can be attached to this exhibit. Particularly is this true where none of the diagrams made at the time disclose this circuit and none of the other witnesses testify to the same.

The Board of Appeals in its decision made no reference to the testimony of Chambers.

In April, 1932, appellee turned over to the patent department of his assignee certain sketches, including Exhibit 2, together with a letter to one H. D. Newton describing his invention. In this letter no mention is made of the element of count 1 hereinbefore quoted. It appears that one T. R. Goldsborough was at that time in charge of the patent department of appellee's assignee, and that he had four or five assistants under him. Said Goldsborough testified that he personally prepared a part of the application of appellee here involved and had before him for that purpose Exhibit 2. He stated that

"The description of the circuit appears to fit the drawing on Exhibit 2, although I note, in the last paragraph on page 4, that a local oscillator is referred to as being indicated by a rectangle."

This witness, in his testimony, did not mention the element of the count here under consideration. He further testified that, it being impossible because of press of other duties to give this case the prompt attention that it warranted, it was turned over to Mr. Greenberg, a patent attorney under him, some time during the summer of 1932 for completion. Mr. Greenberg, who is also the counsel for appellee before us, testified that some time prior to August 22, 1932, he received from said Goldsborough the partially prepared application of appellee. His testimony upon this point is as follows:

Some time prior to August 22, 1932, but at a date which I cannot definitely fix, I received from Mr. Goldsborough various disclosures and a partial rough draft relating to RCA Victor Docket 2200. The material which I received from Mr. Goldsborough included Barton's Exhibits 1, 2 and 3, among other disclosures, and also pages 1 to 12, inclusive of Barton Exhibit 6.

The material I took over from Mr. Goldsborough also included the Bristol board drawings containing the present Figures 1 to 4, inclusive, of the Barton application, the figures being in ink and bearing various legends thereon in pencil. These drawings were later filed in the Patent Office with the completed application, as Mr. Goldsborough had been preparing the application in that manner. I might say that I remember this very clearly because I do not personally work in that manner, but rather prepare my drawings for new cases in the form of rough sketches, which are submitted to the draftsman to be placed on the final Bristol board after the case has been corrected by the inventor.

* * * * * * *

* * * I can state at this time that Barton Exhibit 2 was used as the basis of Figure 1 of the Barton application, and I can also state that Figure 2 of the Barton application is substantially based on the circuit diagram shown in Barton Exhibit 1.

It thus appears that the element of the count here under consideration was disclosed in the partially prepared application by Mr. Goldsborough, although there is no testimony whatever as to when Goldsborough received the information which led him to include in the drawing Figure 1, made by him or under his direction, the element of the count here being considered. Inasmuch as the Patent Office drawings include said element of the count, and Greenberg's testimony is in effect that the drawing Figure 1, received by him from Goldsborough, was sent to the Patent Office as it was received by him, the complete invention embodied in count 1 must have been in the possession of Goldsborough at the time he partially prepared the application. Appellant's counsel challenges this, contending that the drawing Figure 1, as delivered to Greenberg, may not have disclosed the element of count 1 here in dispute, but that such element may have been added afterwards. Much stress is laid upon the testimony of Greenberg that he could state that appellee's Exhibit 2 was the basis of Figure 1 of appellee's application. The argument is made that, if Greenberg had nothing to do with the making of the drawing Figure 1 of the application, he could not state that it was based on appellee's Exhibit 2, and that, inasmuch as Exhibit 2 does not support the count, the inference should be that the element of the count in dispute was not in the drawing at the time it was received by him from Goldsborough.

We are not impressed with this contention. The witness Greenberg is a reputable attorney, and there is nothing in the record to indicate any lack of credibility upon his part. We take it that his statement that the drawing, Figure 1 of appellee's application, was based upon appellee's Exhibit 2, was rather the expression of his opinion as a patent attorney than a statement of fact. It should be remembered, too, that generally speaking the drawing Figure 1 does conform to Exhibit 2 except as to the one element here being considered, which element does not seem to have been considered in issue during the taking of the testimony.

We therefore agree with the Board of Appeals that Goldsborough, before he turned the case over to Greenberg, was in possession of the entire invention, including the element of the count here in question. The Board of Appeals upon this point stated:

It is admitted that the sketch which was submitted by the party Barton to his attorney does not satisfy the counts. We are satisfied, for reasons stated by the Examiner, that the drawings which were sent from attorney Goldsborough to attorney Greenberg were filed in the Patent Office. These drawings admittedly disclose the matter in issue.

There is no definite proof as to why the disclosure of the inventor's sketch was changed to the disclosure of the drawings but we are of the view that when patent drawings are prepared by an attorney for a client, they are to be accepted as prima facie evidence of conception by the inventor as of the date that the drawings were made. We do not consider that the record of this case affords sufficient reason for holding otherwise. We therefore are of the opinion that the party Barton is entitled to a date earlier than the filing date of the senior party.

We are in accord with the view expressed that, when an attorney prepares drawings for a client in a patent application, the presumption is that he derived his information with respect thereto from the inventor.

We therefore hold that appellee is entitled to the date of August 22, 1932, for conception of the invention.

We agree with the Examiner of Interferences, for the reasons stated by him and hereinbefore quoted, that the sketch prepared by the witness Chambers at the time he testified is not sufficient to establish an earlier date of conception by appellee.

With reference to appellee's claimed reduction to practice, it is sufficient to say that, inasmuch as we hold that he has not established conception of the invention prior to August 22, 1932, he cannot be entitled to a reduction to practice prior to that time, and there is no evidence that he reduced it to practice between said date of August 22, 1932, and the filing date of his application.

There remains the question of whether appellee has established diligence in reducing the invention to practice from immediately prior to September 24, 1932, appellant's filing date, until appellee's constructive reduction to practice on November 3, 1932.

The only diligence claimed during this critical period is diligence by the attorneys of appellee's assignee in preparing his application for a patent.

It is conceded that there was no activity in the preparation of said application between August 22, 1932, and October 18, 1932. On this latter date Greenberg started work upon the completion of appellee's application, and finished it on October 28. The application was filed, as hereinbefore stated, on November 3, 1932. Due diligence, then, is established between October 18 and appellee's filing date. Therefore the question is whether the record establishes diligence in preparing said application between immediately prior to September 24, 1932, appellant's filing date, and October 18, 1932.

[1] It is elementary that, where diligence is involved in reducing an invention to practice, diligence must be established at and immediately before the opposing party entered the field, and it must continue until there is an actual or constructive reduction to practice by the party claiming diligence.

It is also well established that absence of activity during the critical period, if due to reasonable excuses or reasons for failure of action, will not be held to be lack of diligence.

[2] If an attorney shall fail to exercise reasonable diligence in preparing an application, such lack of diligence will be imputed to his client, but the courts have been very liberal in their holdings with respect to lack of diligence of an attorney. *Hull* v. *Davenport*, 24 C. C. P. A. (Patents) 1194, 90 F.(2d) 103, 485 O. G. 13.

An attorney must show reasonable diligence in preparing an application, and what is reasonable necessarily depends upon the facts in each particular case.

The fact that appellee's application lay in abeyance between August 22, 1932, and immediately before September 24, 1932, is of no importance except as it may have a bearing upon the subsequent acts with respect to the application.

Neither of the Patent Office tribunals discussed this question of diligence at length, the Board contenting itself with the following statement:

There has been some question of diligence discussed but we are fully in accord with the Examiner that the party Barton was diligent at the time the party Brown entered the field and that he continued to be so until his application was filed.

The witness Greenberg explained the lack of activity, during a portion of the critical period, in completing the application as follows:

At the time I took these various disclosures and partial rough draft from Mr. Goldsborough, I was carrying a particularly heavy docket of work, which included the preparation of new applications; prosecution of pending applications, and prosecution of pending interferences. The RCA Patent Department at that time, as at present, was divided into various divisions, and I was assigned to the division of Mr. J. G. Norton. I have here the division reports of Mr. Norton's division for July, August, and October, 1932. I have not been able to locate the report for September, 1932, although I have looked for it carefully. Reference to these division reports shows the condition of my docket, and it was this fact which prevented me from continuing the preparation of the Barton application until October, 1932.

The RCA patent division, in addition to the monthly reports, also had each assistant patent attorney keep a weekly report sheet, the purpose of which was to note "Old dockets", which means the prosecution of pending applications; "New dockets", which means the preparation of new applications; and "Other work", which refers to interferences and miscellaneous activities.

I find, on reference to these weekly report sheets, that I was not able to get to the continuation of the preparation of the Barton application, RCA Docket 7107, until the week of October 17, 1932. Docket 7107 appears on Tuesday and Wednesday of that week, and appears again on Thursday and Friday of the week of October 24, 1932.

It appears from a letter in the record that appellee's case was given the docket number 7107 by Mr. Greenberg on August 22, 1932.

The weekly work sheets referred to by Mr. Greenberg were introduced in evidence as Exhibit 11. They cover the period between September 5, 1932, and the date of filing appellee's application. These sheets contain four columns, with the following headings: Day, Old dockets, New dockets, and Other work.

Exhibit 11 shows that Greenberg was steadily engaged throughout said period in working upon patent matters, for the most part upon dockets bearing lower numbers than the number of appellee's application, 7107. Presumably the work performed upon dockets bearing lower numbers was upon cases assigned to him before appellee's case was put in his charge. In so far as such work is concerned, we think it excuses lack of activity during said time with respect to appellee's application; but we find that during the week of September 19, 1932, he also performed work upon docket Nos. 7307, 7337, and 7338, the entire day of September 19, 1932, being devoted to work on docket 7307. It is likewise a fair presumption that docket numbers higher than appellee's docket number related to cases assigned to Greenberg after appellee's case had been assigned to him.

For the week of October 3, 1932, said Exhibit 11 shows that on October 6 Greenberg did work on docket No. 7145; on October 7 he worked on docket Nos. 7372 and 7156; and on October 8 he worked on docket No. 7307. During these three days the sheets show that he also worked upon dockets having a lower number than 7107; for the week of October 10, 1932, Exhibit 11 shows that on October 13 he worked on docket No. 7188, and that on October 14 and October 15 he spent his entire time on docket No. 7340; on October 17 he did work on docket Nos. 7339 and 5640. It was not until October 18 that he began work upon appellee's application, and he fin-

ished the application on October 28. Between said dates Exhibit 11 shows that on four days he worked upon the application.

It thus appears that between September 19, 1932, and October 18, 1932, Greenberg worked upon eight cases bearing docket numbers higher than appellee's docket number, 7107, and that, as to one of such cases with higher docket numbers, 7340, he spent two entire days in working upon it.

There may, of course, have been good reasons why Greenberg employed so much of his time in working upon cases that presumably came to him subsequent to the time that appellee's case was assigned to him, but if there were such reasons the record does not disclose them, and there is no explanation whatever as to why appellee's application was held in abeyance while work was done upon later cases. No doubt Greenberg was following instructions in the work he did, but if appellee's application was laid aside without good cause, it is immaterial who was responsible therefor.

The case of *Hull* v. *Davenport*, supra, is very similar to the case at bar, although in that case it was not affirmatively shown that work was done upon cases assigned to patent attorneys later than the application involved in that case, while in the case at bar this is the presumption from the facts established.

In that case Hull was the first to conceive and the last to reduce to practice the invention involved. Both parties relied upon constructive reduction to practice. Hull filed his application on January 31, 1931, and the application of Davenport was filed on December 30, 1930. Hull was awarded a conception date of June 3, 1930, while Davenport relied upon his filing date for both conception and reduction to practice. The period during which Hull was required to exercise diligence was about five weeks. Hull was an employee of the Frigidaire department of the General Motors Corporation. Shortly after his conception date the patent department of said corporation turned over to a firm of lawyers the papers, sketches, etc. necessary for the preparation of an application for patent. It was shown that this firm prepared a very large number of applications for patents for said corporation; that during the year 1930 the lowest number of cases of said corporation in the hands of said attorneys was 311 at the first part of the year, and that at the end of the year there were 406 inventions then awaiting action. The application as filed contained two pages of drawings and eleven pages of specifications, which included six claims. There was nothing else in the record as to what, if anything, was done with Hull's invention during the entire period that the matter was in the hands of the patent attorneys. There, as here, the excuse of non-action was the pressure of business of the attorneys. In our opinion we said:

> The Examiner of Interferences apparently took the position (although this is not the position taken by appellant's counsel in oral argument in this Court) that all appellant had to do was to account for five weeks of time and that he had done so by showing that during that period of time the application was in the hands of the attorneys who prepared and filed the same. It is true that the critical period in the instant case in one sense is less than five weeks time, but the rule contemplates that there must be diligence at the time or just before the second conceiver enters the field and that from this time continuing diligence must be shown or lack of it satisfactorily explained. The burden was upon the appellant to affirmatively show reasonable diligence. The only act of diligence shown by appellant or his attorneys during the entire seven-months' period preceding the beginning of the alleged critical date was appellant's submission to his attorneys of his invention for the preparation of an application on June 3, 1930, or as the record shows, within a week thereafter.
>
> There is, therefore, no showing that appellant was diligently engaged in trying to perfect his invention at the time or just before the time when the appellee entered the field. We cannot presume under the facts in this case that appellant's attorneys were diligent at the time appellee entered the field nor are there any facts proven from which we may conclude that they were diligent at any particular time during the entire eight months period. Of course, they were using diligence when they were engaged in preparing the application, but when the preparation of it began has not been shown. *It is not shown that the several hundred cases in the attorney's hands were taken up in their regular order or that appellant's case was not put to one side and others preferred over it.* [Last italics supplied.]
>
> We are of the opinion, therefore, that it cannot be logically concluded that the appellant has shown such diligence as the law requires, and the decision of the Board of Appeals is affirmed.

It will be observed that in the case at bar it is shown that the cases were not taken up in their regular order, and appellee's case seems to have been laid aside and later cases preferred over it, without any explanation whatever of why this was done.

It thus appears that the facts in the case at bar indicate more strongly a lack of diligence than did the facts in the case of *Hull* v. *Davenport*, supra.

Appellee cites the case of *Martus et al.* v. *Heise*, 17 C. C. P. A. (Patents) 1083, 39 F.(2d) 715, 400 O. G. 7, in support of his contention that appellee's attorneys were reasonably diligent in completing his application. In that case we held that, under the facts shown, a delay of three months in preparing an application did not constitute lack of diligence. We there said:

> The question of diligence is one of fact, and must be determined in each case in the light of the prevailing conditions and circumstances. There are no facts of record to indicate that appellee, as counsel for appellants argue, was deliberately inactive.
>
> Due entirely to the delay occasioned by the unfortunate conditions prevailing in the office of the patent department of his assignee (*which, in our opinion, have been satisfactorily explained*), the filing of appellee's application was delayed for about three months after appellants entered the field. • • • (Italics supplied.)

It will be observed that we there said that the delay was satisfactorily explained, but in the case at bar there is no explanation of why appellee's application was passed over and work was done upon eight cases which presumably came to Greenberg after appellee's case was put in his charge.

It is true that the requirement of diligence extends over a period of only a little over five weeks, but the law requires that appellee must have been reasonably diligent at and immediately prior to appellant's filing date, September 24, 1932. If the attorney was doing nothing toward preparing the application at that time, or has not shown a reasonable excuse for failure of activity, appellee is chargeable with lack of diligence—*Hull* v. *Davenport*, supra. If there was lack of diligence at the beginning of the critical period, any diligence exercised by the attorney after that time, or the length of time thereafter that he was chargeable with diligence, is immaterial.

As hereinbefore indicated, neither of the Patent Office tribunals in their decisions discussed this question of diligence in detail, and we think they must have overlooked the fact that appellee's Exhibit 11 shows that Greenberg, during the critical period, worked on eight cases which, presumably, came to him later in point of time than did appellee's case, without any explanation or reason for so doing. Had they considered this fact, we think a conclusion would have been reached in harmony with the decision of another Board of Appeals in the case of *Hull* v. *Davenport*, which decision was affirmed by us and which has been hereinbefore discussed.

[3] For the reasons hereinbefore stated, we conclude that the record fails to establish diligence upon the part of appellee in reducing his invention to practice, at and immediately prior to appellant's filing date, and the decision of the Board of Appeals is reversed.

Reversed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,383,472, G. A. Long, Automatic telephone pay-station, D. C., N. D. Ill., E. Div., Doc. 14082, *The Gray Telephone Pay Station Co.* v. *Western Electric Co., Inc.* Each claim held invalid, bill dismissed July 8, 1938. Decree affirmed Mar. 4, 1939.

1,400,171, J. L. Kraft, Process of preparing cheese, D. C., S. D. N. Y., Doc. E 87/343, *Kraft-Phenix Cheese Corp.* v. *Hygrade Food Products Corp.* Dismissed (notice May 16, 1939).

1,480,300, J. P. Quiggan, Printing appliance, filed May 11, 1939, D. C., N. D. Ill., E. Div., Doc. 578, *J. P. Quiggan et al.* v. *The Turner Type Founders Co.*

1,584,531, H. L. Hagan, Stereopticon slide, D. C., N. D. Ill., E. Div., Doc. 15114, *F. C. Brady* v. *Shokeno Co.* Dismissed on motion of plaintiff Apr. 18, 1939.

1,607,026, F. von Madaler, Combined picture and sound record and method producing same, filed May 18, 1939, D. C., E. D. N. Y., Doc. 3/498, *Film Recording Corp.* v. *Miles Reproducer Co., Inc., et al.* Doc. 395, *Film Recording Corp.* v. *Fonda Sound Corp.*

1,621,388, G. H. Wheatley, Rubber flap, D. C., N. D. Ill., E. Div., Doc. 15246, *G. H. Wheatley* v. *Rex-Hide, Inc.* Patent held invalid and dismissed for want of equity May 12, 1938. Decree affirmed Apr. 13, 1939.

1,723,603, J. W. Chesney, Process of sterilization and food activation, D. C., N. D. Ill., E. Div., Doc. 14944, *New Discoveries, Inc.*, v. *Bowman Dairy Co.* Dismissed without prejudice on motion of plaintiff Mar. 8, 1939.

1,754,669, J. H. Cohen, Heater, D. C., N. D. Ill., E. Div., Doc. 14958, *Casco Products Corp.* v. *Champion Products, Inc.* Dismissed without prejudice by stipulation Apr. 17, 1939.

1,798,867, G. Candas, Brooch, D. C., N. D. Ill., E. Div., Doc. 15058, *G. Candas et al.* v. *O. J. Angnini et al.* Dismissed with prejudice by stipulation Mar. 25, 1939.

1,802,521, G. H. Miner, Game apparatus, D. C., N. D. Ill., E. Div., Doc. 14604, *Consolidated Patents Corp.* v. *Glenco, Inc., et al.* Dismissed without prejudice on motion of plaintiff Mar. 6, 1939.

1,842,922, P. von Frantzius, Pistol, D. C., N. D. Ill., E. Div., Doc. 15376, *Hercules Gas-Munitions Corp.* v. *W. P. Norcott.* Dismissed by stipulation Apr. 18, 1939.

1,846,368, C. R. Smith, Method of making pipes, filed May 13, 1939, D. C., W. D. Wash., N. Div., Doc. 66, *H. E. Gere* v. *Hydraulic Supply Mfg. Co., Inc., et al.*

1,859,198, K. E. Cunningham, Combination garment, D. C., N. D. Ill., E. Div., Doc. 15603, *Loeber Hair Goods Co. et al.* v. *The H. W. Gossard Co.* Dismissed for want of equity May 5, 1939.

1,882,292, P. J. Moran, Corselette, filed May 11, 1939, D. C., S. D. N. Y., Doc. 3/460, *I. Rosner* v. *Fashion Foundations, Inc.*

1,906,373, A. Garbarini, Autocollimating reflector, filed May 6, 1939, D. C., N. D. Ill., E. Div., Doc. 568, *Western Cataphote Corp.* v. *Johnson Glass Co. et al.*

1,927,185, Power & Bradley, Resistor unit and method of making same, C. C. A., 3d Cir., Doc. 6822, *Allen-Bradley Co.* v. *Erie Resistor Corp.* Decree affirmed May 5, 1939.

1,929,836, C. J. Brown, Bearing, D. C., N. D. Ill., E. Div., Doc. 15357, *Westinghouse Electric & Mfg. Co. et al.* v. *The Richardson Co.* Dismissed without prejudice May 13, 1939.

1,941,469. (See Des. 89,395.)

1,941,470. (See Des. 89,395.)

1,955,569, H. I. Warden, Licensing of motor vehicles, filed May 18, 1939, D. C., W. D. Mo. (Kansas City), Doc. 227, *H. I. Warden* v. *Kansas City, Mo.*

1,969,156, C. H. Schuttler, Heat insulating material, D. C., N. D. Ill., E. Div., Doc. 15997, *E. Schuttler* v. *Insulating Products Co.* Dismissed on motion of plaintiff May 5, 1939.

1,983,187, B. M. Oswell, Counter set-up rack, D. C., N. D. Ill., E. Div., Doc. 15983, *B. M. Oswell* (*Guarantee Metal Products*) v. *Bloomfield Mfg. Co.* Bill in so far as it charges infringement of claims 2, 3, 4, and 5 is dismissed with prejudice, bill also dismissed for want of equity Apr. 19, 1939.

2,007,607, G. W. Johnson, Pressing machine and control mechanism therefor, D. C., N. D. Ill., E. Div., Doc. 330, *The American Laundry Machinery Co.* v. *Frohwitter Machine Mfg. Co., Inc., et al.* Dismissed on motion of plaintiff May 8, 1939.

2,010,966, H. W. Selden & Selden, Game of skill, D. C., N. D. Ill., E. Div., Doc. 14797, *Ace Patents Corp.* v. *J. A. Johnson* (*Western Equipment & Supply Co.*). Dismissed without prejudice on motion of plaintiff Apr. 3, 1939.

2,016,276, G. F. Crosiar, Coil for boilers, D. C., N. D. Ill., E. Div., Doc. 15669, *Fuel-Saver Coil Corp.* v. *R. Sokoloff et al.* Patent held invalid, bill dismissed for want of equity July 13, 1938.

2,065,659, A. V. Cullen, Fastening method and means, D. C., N. D. Ill., E. Div., Doc. 446, *The Dodge Chemical Co., Inc., et al.* v. *S. Hanson et al.* Consent decree, finding claim 6 valid, and infringed by S. E. Hansen, injunction. Dismissed as to Alex J. and Axel J. Hanson May 10, 1939.

2,067,963, W. H. Joyce, Footwear, filed May 15, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 379–Y, *Joyce, Inc.*, v. *B. Solnit.*

2,089,304, P. Stein, Jet pipe for fire extinguishing purposes with a widening mouthpiece, D. C., N. D. Ill., E. Div., Doc. 15919, *Elkhart Brass Mfg. Co.* v. *American-La France & Foamite Industries, Inc.* Dismissed without prejudice Feb. 23, 1939.

2,107,997, J. H. Horsley, Roll top box, filed May 10, 1939, D. C., N. D. Ill., E. Div., Doc. 576, *Shanklin Mfg. Co.* v. *Goldblatt Bros., Inc.*

2,108,137, Oftedal & Kingsley, Threshold, filed May 10, 1939, D. C., N. D. Ill., E. Div., Doc. 572, *P. R. Oftedal* (*Protex Weatherstrip Mfg. Co.*) v. *Chicago Extruded Metals Co.*

2,123,717, W. F. Dalzen, Gear finishing machine, D. C., E. D. Mich. (Detroit), Doc. 8542, *Michigan Tool Co.* v. *National Broach & Machine Co.* Dismissed May 15, 1939.

2,134,048, J. B. Kessel, Washing machine, filed May 9, 1939, D. C., N. D. Ill., E. Div., Doc. 571, *J. B. Kessel et al.* v. *Vidrio Products Corp. et al.*

2,149,777, C. Kidwell, Anatomical injector and aspirator, filed May 18, 1939, D. C., E. D. Mo. (St. Louis), Doc. 236, *C. Kidwell et al.* v. *Universal Embalming Fluid & Supply Co.*

Re. 19,680, A. Crossley, Temperature control system, D. C., N. D. Ill., E. Div., Doc. 15056, *A. Crossley et al.* v. *Doolittle & Falkner.* Decree of Jan. 6, 1938, dismissing bill for want of equity, affirmed; claims 6, 8, and 9 held invalid Apr. 27, 1939.

Re. 19,929, G. Slayter, Method of heat insulating, D. C., N. D. Ill., E. Div., Doc. 15868, *Slayter & Co.* v. *Therm-O-Proof Insulation Co.* Consent decree finding patent valid and infringed, injunction Apr. 18, 1939.

Re. 20,540, T. Johnson, Casement window structure, filed May 15, 1939, D. C., E. D. Mich., S. Div., Doc. 1187, *Johnson Metal Products Co. et al.* v. *Fly Tight Screen Mfg. Co.*

Des. 66,682, R. B. Griffin, Wall paper, D. C., E. D. Pa., Doc. 3509, *The Robt. Griffin Co.* v. *Asam Bros., Inc.* Dismissed May 17, 1939.

Des. 78,500, R. L. Barton, Combined wash board and laundry tray, filed May 15, 1939, D. C., S. D. Calif., C. Div., Doc. 378–H, *R. L. Barton et al.* v. *R. C. Troeger et al.*

Des. 89,395, 1,941,470, 1,941,469, Glatthar & Wening, Lighting fixture, D. C., W. D. Pa., Doc. E 2946, *G. E. Glatthar et al.* v. *Pittsburgh Reflector Co.* Bill and counterclaim dismssed with prejudice May 13, 1939.

Des. 90,489, J. R. Kirkpatrick, Chair, D. C., N. D. Ill., E. Div., Doc. 14294, *Mueller Furniture Co.* v. *J. L. Chase Co.* Dismissed for want of prosecution Apr. 18, 1939.

Des. 91,192, V. C. Grote, Container, D. C., S. D. Iowa, C. Div., Doc. 21, *Camille, Inc.*, v. *F. W. Fitch Co.* Decree and injunction (notice May 20, 1939).

Des. 91,490, Des. 93,564, H. Lewy, Advertising display card, D. C., S. D. N. Y., Doc. E 87/173, *H. Lewy* v. *Hoffman Beverage Co.* Dismissed (notice May 5, 1939).

Des. 93,564. (See Des. 91,490.)

Des. 95,376, J. R. Morgan, Bathtub, D. C., N. D. Ill., E. Div., Doc. 15522, *Sears, Roebuck and Co.* v. *Teck Mfg. Co. et al.* Consent decree, finding patent valid and infringed, injunction Apr. 10, 1939.

Des. 97,084, D. S. McGuire, Milk truck, D. C., N. D. Ill., E. Div., Doc. 15250, *Beloit Dairy Co.* v. *Green Fields Dairy Co., Inc.* Consent decree, finding patent valid and infringed, injunction Apr. 1, 1939.

Des. 97,218, H. H. Wise, Bottle, D. C., N. D. Ill., E. Div., Doc. 243, *H. H. Wise* v. *J. Konovsky* (*Kenner Specialty Co.*). Dismissed on motion of defendant Apr. 13, 1939.

Des. 97,701, Des. 97,704, Des. 97,706, Des. 97,707, Des. 98,110, Des. 98,300, C. Emmey, Applique emblem, (suit for declaratory judgment), D. C., S. D. N. Y., Doc. E 84/287, *Frances Emblems, Inc., et al.* v. *Novelty Felt Applique Co., Inc.* Consent decree for plaintiff (notice May 8, 1939).

Des. 97,704. (See Des. 97,701.)

Des. 97,706. (See Des. 97,701.)

Des. 97,707. (See Des. 97,701.)

Des. 98,110. (See Des. 97,701.)

Des. 98,300. (See Des. 97,701.)

Des. 101,388, F. M. Moninger, Storage magazine for a machine for dispensing spherical objects; 1,952,244, C. F. Grim, Golf ball vending machine, filed May 12, 1939, D. C., E. D. Wis. (Milwaukee), Doc. 99, *Sportsman's Mfg. & Distributing Co., Inc.*, v. *C. L. Hornung Sales Co. et al.*

Des. 104,111, L. A. Koch, Jr., Automobile exhaust shrouds, D. C., N. E. Ill., E. Div., Doc. 16183, *Koch Mfg. Co., Inc., et al.* v. *National Wheels & Parts Mfg. Co.* Dismissed without prejudice May 5, 1939. Doc. 15940, *Koch Mfg. Co., Inc., et al.* v. *Continental Products, Inc.* Dismissed for want of equity Oct. 5, 1938. Doc. 15942, *Koch Mfg. Co., Inc., et al.* v. *Chicago General Accessories Co., Inc., et al.* Dismissed for want of equity Oct. 5, 1938.

Des. 106,132, C. Doppelt, Bag for toilet articles, suit for declaratory judgment filed May 12, 1939, D. C., N. D. Ill., E. Div., Doc. 583, *S. Dresner & Son, Inc.*, v. *Leather Specialties Corp.* Doc. 584, *Leather Specialties Corp. et al.* v. *Dresner & Sons, Inc.*

Des. 107,409, Dick & Fletcher, Tobacco ash receptacle, D. C., S. D. Iowa, C. Div., Doc. 25, *T. Dick* v. *Midwest Metal Stamping Co.* Dismissed May 3, 1939.

Des. 108,048, T. Coleman, Dress, D. C., S. D. N. Y., Doc. E 86/291, *A. S. Gross, Inc.*, v. *Lombardy Frocks, Inc.* Stipulation of discontinuance (notice May 18, 1939).

Des. 109,580, T. Coleman, Dress, D. C., S. D. N. Y., Doc. E 87189, *A. S. Gross, Inc.*, v. *Lombardy Frocks, Inc.* Stipulation of discontinuance (notice May 18, 1939).

Des. 109,860, P. Schlessel, Dress ensemble, D. C., S. D. N. Y., Doc. E 87/88, *New York Dress & Costume Co., Inc.*, v. *Varsity Dress Co., Inc.* Consent decree for plaintiff (notice May 1, 1939).

Des. 113,073, H. A. Lawson, Bedspread, filed May 5, 1939, D. C., N. D. Ga. (Atlanta), Doc. 2154, *Carter Bros., Inc.*, v. *J. K. McCutchen et al.* (*J. & C. Bedspread Co.*).

Des. 114,388, S. Aronoff, Dress, filed May 16, 1939, D. C., S. D. N. Y., Doc. E 481, *H. Goodman* v. *Rythm Frocks, Inc.*

Des. 114,416, C. Stoll, Sofa, filed May 15, 1939, D. C., S. D. N. Y., Doc. 3/479, *Stand-Built Upholstery Co., Inc.*, v. *M. Chorost.*

T. M. 313,692, F. A. Brown, Whiskey, filed Apr. 27, 1939, D. C., N. D. Ill., E. Div., Doc. 511, *Clear Spring Co.* v. *Willis Stores, Inc., et al.*

Disclaimers

2,059,840.—*Leonard W. Atchison*, Schenectady, N. Y. REFRIGERATING MACHINE. Patent dated November 3, 1936. Disclaimer filed July 7, 1939, by the assignee, *General Electric Company.*

Hereby enters this disclaimer to claims 1 and 9 of said patent.

2,078,087.—*Willis B. Lincoln, Jr.*, Indianapolis, Ind. LIGHT SHIELDED HANDLED FIBER BOARD CASE. Patent dated April 20, 1937. Disclaimer filed July 3, 1939, by the assignee, *Inland Container Corporation.*

Hereby enters this disclaimer to claims 2, 3, 6, and 8 to 14 inclusive of the specification.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 1, 1939

[VOL. 505. No. 1]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 419,708. ABE APRIL FUR DYEING CORPORATION, New York, N. Y. Filed May 23, 1939.

APRIL RUBY

For Fur Skins.
Claims use since Jan. 3, 1939.

CLASS 2

Receptacles

Ser. No. 417,526. DETROIT PAPER PRODUCTS CORPORATION, Hamtramck, Mich. Filed Mar. 27, 1939.

TUF CON

For Paper Cartons.
Claims use since Feb. 7, 1939.

Ser. No. 418,124. ZIP-A-BAG CORP., New York, N. Y. Filed Apr. 11, 1939.



No claim is made to the word "Bag" apart from the mark.

For Vacuum Cleaner Bags Made of Filter Cloth Material.

Claims use since Feb. 4, 1939.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 413,161. SUGAR BEET PRODUCTS COMPANY, Saginaw, Mich. Filed Nov. 25, 1938.



For Cleaning and Water-Softening Compound for Cleaning Floors, Walls, Paint, and Other Household Cleansing.
Claims use since June 1, 1938.

Ser. No. 413,162. SUGAR BEET PRODUCTS COMPANY, Saginaw, Mich. Filed Nov. 25, 1938.

jack rabbit

For Cleaning and Water-Softening Compound for Cleaning Floors, Walls, Paint and Other Household Cleansing.
Claims use since June 1, 1938.

Ser. No. 418,154. JULIUS E. JOHNSON, doing business as J. E. Johnson & Co., Chicago, Ill. Filed Apr. 12, 1939.

WATAWAX

For Cleaning Compound Having Incidental Polishing Properties for use on Furniture, Automobiles, Woodwork, Painted Walls, Floors, Glass, and Porcelain.
Claims use since Dec. 1, 1936.

Ser. No. 418,809. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.

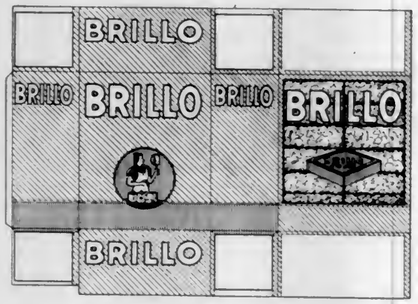


No claim is made to the representations of the carton, of the cake of soap, of the scouring pads, or to the words "Cleanser" and "Soap" apart from the mark.

For Soaps, Cleaning, Scouring, and Polishing Wads, Pads, Rolls, and Cloths of Abradent Nature for Removing Foreign Matter from Metal and Other Surfaces.

Claims use since Mar. 23, 1938.

Ser. No. 418,810. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.



No claim is made to the representations of the carton, of the cake of soap, of the scouring pad, or to the word "Soap" apart from the mark. The drawing is lined for green and red.

For Soaps, Cleaning, Scouring, and Polishing Wads, Pads, Rolls, and Cloths of Abradent Nature for Removing Foreign Matter from Metal and Other Surfaces.

Claims use since Mar. 23, 1938.

CLASS 5

Adhesives

Ser. No. 420,189. STEIN, HALL & COMPANY, INC., New York, N. Y. Filed June 5, 1939.

LAKOE

For Locust Bean Gum.

Claims use since 1929.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 411,088. DR. RUDOLF REISS, RHEUMASAN- UND LENICET-FABRIK, Berlin, Germany. Filed Sept. 29, 1938.

ADIPOSETTES

For Medical Preparation Serving Especially for Reducing Overweight.

Claims use since 1934.

Ser. No. 411,842. ALVAH A. SEIBERT, doing business as Perfection Products Co., Cairo, Ill. Filed Oct. 20, 1938.



No claim is made to the wording apart from the mark shown.

For Filter Powder for Chlorinated Solvent Cleaning Units.

Claims use since July 1, 1936.

Ser. No. 412,546. DURO TEST CORPORATION, North Bergen, N. J. Filed Nov. 9, 1938.

DURAMIC

For Coloring Material for Incandescent Bulbs.

Claims use since Oct. 3, 1938.

Ser. No. 412,945. CHERRY-BURRELL CORPORATION, Chicago, Ill. Filed Nov. 19, 1938.

NUTRALAC

For Chemical Preparations to be Used in the Treatment of Dairy Products for Improving Their Flavor and Adaptability to Being Processed.

Claims use since Apr. 6, 1938.

Ser. No. 414,904. THE TRET-O-LITE COMPANY, Webster Groves, Mo. Filed Jan. 16, 1939.

DESALTO

For Organic Compounds and Solutions for the Refining of Petroleum.

Claims use since Dec. 15, 1938.

Ser. No. 416,076. THE TITANIUM ALLOY MANUFACTURING COMPANY, Niagara Falls, N. Y. Filed Feb. 15, 1939.

ECLIPSITE

For Opaquing Agents and Pigments Used in the Manufacture of Enamels and Glazes.

Claims use since Dec. 7, 1938.

Ser. No. 416,264. PHILADELPHIA WHOLESALE DRUG COMPANY, Philadelphia, Pa. Filed Feb. 20, 1939.

Druco

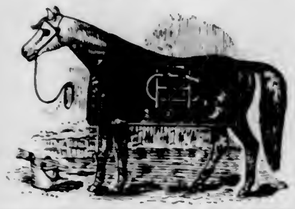
For Acetanilid Compound Tablets No. 1, Alkaline Aromatic Compound Tablets, Aloes and Mastic Pills N. F., Aloin, Strychnine, Belladonna and Cascara No. 1, Ammoniated Mercury Ointment U. S. P., Analgesic Balm, Antacid Powder, Antiseptic Mouth Wash and Gargle, Arnica and Witch Hazel Ointment, Aspirin Tablets, Astringent Gargle, Baby Cough Syrup, Barbital Tablets, Bay Rum; Beef, Wine and Iron; Blackberry Compound, Boric Acid Ointment U. S. P., Brown Lozenges, Brown Lozenges w/Ammonium Chloride, Calomel and Soda Rx "B", Calomel and Soda Rx "F", Camphorated Oil U. S. P., Carbolic Compound Salve, Cascara Compound S/C Pink (Hinkles), Cascara Sagrada Extract Chocolate-Coated Tablets, Cascara Sagrada Aromatic U. S. P., Castor Oil U. S. P., Castor Oil Odorless-Tasteless U. S. P., Cathartic Compound Pills N. F. Gelatin Coated, Cathartic Compound Pills N. F. Sugar Coated, Catnep and Fennel, N. F., Elixir, Chloroform Liniment, Charcoal Tablets, Cinchophen Tablets, Citrates and Carbonates, Citrate of Magnesia Solution U. S. P., Cocoanut Oil, Cod Liver Oil Norwegian, Cod Liver Oil Capsules 20 mms., Cod Liver Oil Concentrated Tablets, Corn Remover Liquid, Coryza, Rx "H" Chocolate-Coated Tablets w/o Morphine, Cough Syrup, Cucumber Jelly, Dental Cream Tube w/M. of Magnesia and Ipecac, Effervescent Phosphate of Soda U. S. P., Egg Shampoo Cream, Essence Peppermint, Expectorant Lozenges, Eye Water, Fuller's Earth, Glycerin, Glycerin Suppositories Adult, Glycerin Suppositories Infant, Halibut Liver Oil Capsules Plain, Halibut Liver Oil Capsules Fortified, Hat Bleach and Cleaner, Hexamethylenamine Tablets, Horehound and Tolu, Horehound Drops, Larkspur Lotion, Laxative Pills, Laxative Quinine Tablets, Laxative Syrup, Liquid Petrolatum, Lithia Tablets Effervescent, Magnesia Mouth Wash, Magnesia Tablets, Menthol and Eucalyptol Lozenges, Menthol Inhaler, Mercurial Ointment Mild U. S. P., Milk of Magnesia U. S. P., Mineral Oil with Agar Compound Emulsion, Mineral Oil with Agar Compound and Phenolphthalein Emulsion, Mosquito Lotion, Mouth Wash, Nasal Spray Medicated, Nose Drops Medicated, Oibs, Suppositories, Oil Citronella, Oil Wintergreen, Ointment of Phenol and Tannin, Pepsin and Charcoal Tablets, Peroxide Cream, Peroxide Hydrogen, Petrolatum U. S. P., Phenobarbital Tablets, Pink Root and Senna Syrup, Poison Ivy Lotion, Potassium Chlorate Tablets, Rhinitis Chocolate-Coated Tablets Full Strength, Rhinitis Chocolate-Coated Tablets One-Half Strength, Rhubarb Compound Pills N. F., Rubbing alcohol Compound, Rubbing Alcohol Compound w/Wintergreen, Rubefacient Liniment for Stimulating Sprains, Aching Muscles, and Swollen Joints, Saccharin Tablets, Salol Compound Capsules, Salol Tablets, Sandalwood Oil Capsules, Sea Salt, Soda Mint Tablets, Soda Mint and Pepsin Tablets, Sodium Bicarbonate Tablets, Sodium Salicylate Tablets, Spirit Ammonia Aromatic, Spirit Camphor U. S. P., Sulphur Lozenges w/Cream of Tartar, Sulphur Ointment U. S. P., Sunburn Lotion, Sweet Spirit of Nitre U. S. P., Syrup of Hypophosphites N. F., Syrup of White Pine and Tar, Tincture Arnica N. F., Tincture Iodine U. S. P., Toilet Lanoline, Tooth Powder, Toothache Drops, Vitamins A–B–D and G Capsules, Wild Cherry Drops, Witch Hazel, Yellow Mercuric Oxide Ointment, and Zinc Oxide Ointment.

Claims use on acetanilid compound tablets No. 1 since May 25, 1926; on alkaline aromatic compound tablets since May 14, 1926; on aloes and mastic pills N. F. since Jan. 5, 1926; on aloin, strychnine, belladonna and cascara No. 1 since June 29, 1927; on ammoniated mercury ointment U. S. P. since Jan. 1, 1932; on analgesic balm since Jan. 4, 1930; on antacid powder since July 7, 1937; on antiseptic mouth wash and gargle since Feb. 9, 1935; on arnica and witch hazel ointment since Apr. 22, 1929; on aspirin tablets since Sept. 27, 1935; on astringent gargle since Sept. 11, 1924; on baby cough syrup since May 1, 1915; on barbital tablets since Aug. 4, 1927; on bay rum since Apr. 9, 1924; on beef wine and iron since May 1, 1915; on blackberry compound since June 19, 1929; on boric acid ointment U. S. P. since Apr. 16, 1929; on brown lozenges since May 1, 1915; on brown lozenges w/ammonium chloride since May 1, 1915; on calomel and soda Rx "B" since Jan. 23, 1926; on calomel and soda Rx "F" since Feb. 26, 1926; on camphorated oil U. S. P. since May 17, 1929; on carbolic compound salve since June 14, 1929; on cascara compound s/c pink (Hinkles) since Jan. 12, 1926; on cascara sagrada extract chocolate-coated tablets since May 1, 1915; on cascara sagrada aromatic U. S. P. since July 3, 1929; on castor oil U. S. P. since Oct. 6, 1924; on castor oil odorless-tasteless U. S. P. since Oct. 1, 1924; on cathartic compound pills N. F. gelatin coated since Jan. 27, 1926; on cathartic compound pills N. F. sugar coated since Feb. 16, 1926; Catnep and Fennel, N. F., elixir since Apr. 14, 1924; on choloroform liniment since June 14, 1929; on charcoal tablets since Jan. 15, 1926; on cinchophen tablets since Oct. 4, 1926; on citrates and carbonates since May 18, 1936; on citrate of magnesia solution U. S. P. since June 28, 1935; on cocoanut oil since Feb. 3, 1931; on cod liver oil Norwegian since May 1, 1915; on cod liver oil capsules 20 mms. since Jan. 1, 1932; on cod liver oil concentrated tablets since Oct. 10, 1934; on corn remover liquid since May 1, 1915; on coryza, Rx "H" chocolate-coated tablets w/o morphine since Feb. 9, 1931; on cough syrup since Oct. 26, 1926; on cucumber jelly since May 1, 1915; on dental cream tube w/m. of magnesia and ipecac since May 1, 1915; on effervescent phosphate of soda U. S. P. since May 1, 1915; on egg shampoo cream since Nov. 2, 1928; on essence peppermint since May 14, 1927; on expectorant lozenges since May 1, 1915; on eye water since Apr. 11, 1924; on Fuller's earth since Apr. 10, 1924; on glycerin since May 17, 1929; on glycerin suppositories adult since May 1, 1906; on glycerin suppositories infant since May 1, 1906; on halibut liver oil capsules plain since Aug. 1, 1935; on halibut liver oil capsules fortified, since Aug. 1, 1935; on hat bleach and cleaner since May 1, 1915; on hexamethylenamine tablets since Nov. 1, 1926; on horehound and tolu since Oct. 16, 1934; on horehound drops since Nov. 5, 1934; on larkspur lotion since Apr. 26, 1924; on laxative pills since Feb. 4, 1926; on laxative quinine tablets since May 1, 1915; on laxative syrup since May 1, 1915; on liquid petrolatum since June 14, 1924; on lithia tablets effervescent since May 1, 1906; on magnesia mouth wash since July 11, 1934; on magnesia tablets since Feb. 27, 1935; on menthol and eucalyptol lozenges since Oct. 18, 1930; on menthol inhaler since Jan. 22, 1926; on mercurial ointment mild U. S. P. since Jan. 1, 1930; on milk of magnesia U. S. P. since July 20, 1931; on mineral oil with agar compound emulsion since Aug. 26, 1930; on mineral oil with agar compound and phenolphthalein emulsion since May 25, 1933; on mosquito lotion since July 9, 1931; on mouth wash since May 22, 1926; on nasal spray medicated since Apr. 30, 1930; on nose drops medicated since Nov. 2, 1934; on oibs, suppositories since Jan. 25, 1937; on oil citronella since May 17, 1929; on oil wintergreen since May 20, 1929; on ointment of phenol and tannin since May 1, 1915; on pepsin and charcoal tablets since Apr. 27, 1929; on peroxide cream since Jan. 1, 1928; on peroxide hydrogen since Oct. 12, 1932; on petrolatum U. S. P. since Apr. 15, 1929; on phenobarbital tablets since May

24, 1932; on pink root and senna syrup since May 1, 1915; on poison ivy lotion since Apr. 24, 1929; on potassium chlorate tablets since May 1, 1915; on rhinitis chocolate-coated tablets full strength since May 1, 1915; on rhinitis chocolate-coated tablets one-half strength since May 1, 1915; on rhubarb compound pills N. F. since Jan. 6, 1925; on rubbing alcohol compound since July 12, 1930; on rubbing alcohol compound w/wintergreen since Mar. 16, 1938; on rubefacient liniment for stimulating sprains, aching muscles, and swollen joints since Mar. 15, 1929; on saccharin tablets since Jan. 9, 1926; on salol compound capsules since Jan. 1, 1930; on salol tablets since Sept. 22, 1926; on sandalwood oil capsules since May 1, 1915; on sea salt since Feb. 4, 1930; on soda mint tablets since May 1, 1915; on soda mint and pepsin tablets since Feb. 1, 1926; on sodium bicarbonate tablets since May 26, 1926; on sodium salicylate tablets since Sept. 21, 1926; on spirit ammonia aromatic since May 6, 1926; on spirit camphor U. S. P. since May 18, 1929; on sulphur lozenges w/cream of tartar since May 1, 1915; on sulphur ointment U. S. P. since Jan. 1, 1928; on sunburn lotion since July 19, 1930; on sweet spirit of nitre U. S. P. since May 17, 1928; on syrup of hypophosphites N. F. since May 1, 1915; on syrup of white pine and tar since May 1, 1915; on tincture arnica N. F. since May 20, 1929; on tincture iodine U. S. P. since May 19, 1927; on toilet lanoline since June 18, 1929; on tooth powder since May 2, 1935; on toothache drops since June 27, 1931; on vitamins A, B, D, and G capsules since Oct. 1, 1937; on wild cherry drops since Nov. 5, 1934; on witch hazel since Apr. 10, 1924; on yellow mercuric oxide ointment since Jan. 1, 1932; and on zinc oxide ointment since May 3, 1926.

Ser. No. 416,839. JAMES B. CAMPBELL, Elkhorn, Wis. Filed Mar. 9, 1939.

CAMPBELL'S



The monogram consists of the letters CHFO. No claim is made to the name "Campbell's" apart from the mark.
For Veterinary Medicines for Topical Application, Particularly for Treating Horses' Hoofs.
Claims use since Jan. 6, 1887.

Ser. No. 417,150. VADSCO SALES CORPORATION, Long Island City, N. Y. Filed Mar. 16, 1939.

ADGESIC

For Face Cream, Analgesic Balm, Headache and Neuralgia Preparations, Antiseptic Poultices, Antiseptic Liquid, Catarrhal Snuff, Ant-Paste, Aromatic Cascara, Arnica Salve, Infant Cough Preparation, Talcum Powder, Bay Rum; Beef, Iron, and Wine; Saline Preparations for Bladder and Kidney Troubles, Alkaline Antiseptic Solutions for the Relief of Nasal Catarrh and Sore Throat, Tablets for the Breath, Bug-Killer, Camphor-Menthol for Relieving Inflammatory Congestion, Camphor-Ice Preparations, Liniments, Carbolic Salve, Celery and Viburnum, Charcoal Tablets, Malarial Tonics, Chlorate-of-Potash Tablets, Cod-Liver Oil and Emulsions for Strengthening Purposes, Cold-Cream, Cold and Grippe Tablets, Colic and Diarrhea Preparations, Corn-Patches and Preparations for Corns, Cough and Croup Preparations, Hair-Pomades, Dyspepsia-Tablets, Neutralizers for the Odors of Perspiration, Digestive Tablets, Effervescent Bromo, Effervescent Magnesium Citrate, Effervescent Soda Phosphate, Eye Waters and Salves, Antiseptic Preparations for Eczema, Fig-Syrup and Cascara, Fig-Syrup and Senna, Foot Tablets and Powders for Relief of Feet, Preparations for Constipation, Glycerin Suppositories, Hair-Tonics, Headache Powders, and Wafers, Hepatic Salts, Effervescent and Bromo Salts, Herb Tea for Laxative Purposes; Hypophosphites, Compound Syrup; Insect-Powders, Iron Tonic Bitters, Castor Oil, Kidney Preparations, Disinfectants, Laxative Chocolate Confection, Shampoo Preparations, Liquid Court-Plaster, Larkspur Compound, Liver-Pills, Lithia Tablets, Milk Magnesia, Menthol-Inhalers, Menthol-Pencils, Nail-Polish, Obesity Preparation, Tonic and Anodyne for the Relief of Menstruation, Pepsin and Pepsin Tablets, Tooth Paste and Powders, Peroxid Hydrogen, Pile Preparations, Poison Fly-Paper and Poison Lotions, Straw-Hat Dye, Salves, Rat-Poison, Rat and Roach Pastes, Rheumatic Preparations, Russian Mineral Oil, Sarsaparilla Compound, Mosquito-Lotion, Soda-Mint and Pepsin Tablets, Soothing Syrup, Sulfur and Cream-of-Tartar Lozenges, Soda-Mint and Charcoal Tablets, Throat Lozenges, Witch-Hazel, Toothache Preparations, White Pine Expectorants with Tar and Mentholates, and Worm Preparations.
Claims use since Feb. 20, 1939.

Ser. No. 417,253. BAIRD & MCGUIRE, INC., Holbrook, Mass. Filed Mar. 20, 1939.

PES-TOX

"Tox" is disclaimed apart from the mark.
For Insecticides.
Claims use since Apr. 18, 1924.

Ser. No. 418,320. WESTERN ADHESIVES COMPANY, Chicago, Ill. Filed Apr. 15, 1939.

SHELLTEX

For Material for Protecting Human Skin from Injury from Irritants.
Claims use since Feb. 1, 1939.

Ser. No. 418,483. EDWARD H. HEIL, Cleveland, Ohio. Filed Apr. 20, 1939.

RETTO

For Liquid Dentifrice, a Preparation for Causing Retention of False Teeth in the Mouth.
Claims use since Oct. 1, 1938.

Ser. No. 418,571. BENJAMIN ESKIN, doing business as Eskin Laboratories, Newark, N. J. Filed Apr. 22, 1939.

ORA RUB

Applicant disclaims the word "Rub" apart from the mark.
For Massage for Gums and Mouth.
Claims use since Dec. 1, 1938.

Ser. No. 419,159. SEA BOARD SUPPLY CO., INC., Philadelphia, Pa. Filed May 6, 1939.

SEA-BOARD

GENERAL PURPOSE MINERALS

No claim is made to the term "General Purpose Minerals" apart from the mark.
For Product Used for Mineralizing Live Stock Ration Feed, Which is Used for Horses, Cattle, Chickens, Etc.
Claims use since Jan. 1, 1939.

Ser. No. 419,192. V. B. HOOVER, doing business as Kenosha Prescription Laboratory, Kenosha, Wis. Filed May 8, 1939.

ZANTOL

For Medicinal Preparation Which Acts as a Vasodilator.
Claims use since September, 1938.

Ser. No. 419,243. THE BENZOINOL MANUFACTURING COMPANY, New York, N. Y. Filed May 8, 1939.

BENZOINOL

For Medicinal Lotion, the Therapeutic Use of Which is to Use as a Protective and Soothing Spray or Drops, Aiding in the Relief of Irritated Mucous Membranes of the Nose and Throat.
Claims use since 1920.

Ser. No. 419,516. IMRA COSMETICS, INC., Elizabeth, N. J. Filed May 17, 1939.

SUTRA

For Sun Tan Cream and Lotion.
Claims use since May 11, 1939.

Ser. No. 419,550. DERRIS, INC., New York, N. Y. Filed May 18, 1939.

PEA-O-CIDE

For Insecticides.
Claims use since Apr. 5, 1939.

Ser. No. 419,551. DERRIS, INC., New York, N. Y. Filed May 18, 1939.

BEAN-O-CIDE

For Insecticides.
Claims use since May 3, 1939.

Ser. No. 419,575. HUEMITE, INC., Dayton, Ohio. Filed May 19, 1939.

HUEMITE

For Insecticides.
Claims use since June 16, 1936.

Ser. No. 419,583. LOGAN LABORATORIES, INC., Chicago, Ill. Filed May 19, 1939.

PELLISAN

For Antiseptic Powder.
Claims use since May 11, 1939.

Ser. No. 419,741. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y. Filed May 23, 1939.

KAPPAXIN

For Preparation of Antihemorrhagic Vitamin "K."
Claims use since May 9, 1939.

Ser. No. 419,766. J. W. QUINN DRUG COMPANY, INC., Greenwood, Miss. Filed May 24, 1939.

SEN-SAN

For Diuretic Compound, and Diuretic Tablets.
Claims use since Oct. 5, 1936.

Ser. No. 419,779. VERITAS PRODUCTS COMPANY, INC., New York, N. Y. Filed May 24, 1939.

Veritas

For Vaginal Cream.
Claims use since Sept. 18, 1935.

Ser. No. 419,786. C. M. KIMBALL CO., Everett, Mass. Filed May 23, 1939.

RED CAP

For Germicide.
Claims use since Apr. 21, 1939.

Ser. No. 419,862. FINK-ROSELIEVE CO., INC., New York, N. Y. Filed May 26, 1939.

One Shot

For Photographic Preparations and Photographic Chemicals.
Claims use since May 23, 1939.

Ser. No. 419,869. MAGAY CORPORATION, New York, N. Y. Filed May 26, 1939.

Q-LIN

For Preparation for Treating Arthritis, Rheumatism, Muscular Pains and Aches.
Claims use since May 9, 1939.

Ser. No. 419,922. LENTHERIC, INCORPORATED, New York, N. Y. Filed May 27, 1939.

Rocket

For Lipsticks and Rouges.
Claims use since May 19, 1939.

Ser. No. 419,968. J. M. HARRIS & CO., Roanoke, Va. Filed May 29, 1939.

Blue Dragon



For Insecticides.
Claims use since May, 1935.

Ser. No. 420,005. ERWIN C. HENKEL, doing business as Wormout Company, Minneapolis, Minn. Filed May 31, 1939.



No claim is made to the term "Wormout" apart from the mark.
For Preparation in Liquid Form for the Elimination of Worms in Poultry and Livestock.
Claims use since December, 1938.

Ser. No. 420,040. GEORGE BARING, New York, N. Y. Filed June 1, 1939.

"COMBLE"

For Perfume.
Claims use since May 24, 1939.

Ser. No. 420,069. W. F. MORRIS, Sand Gap, Ky. Filed June 1, 1939.

"Morriswonder"

For Medicinal Preparation for Use in Treating Kidney and Liver Ailments and for the Stomach and for the Treatment of Indigestion.
Claims use since Aug. 3, 1903.

Ser. No. 420,237. GIULIO ROMANO, doing business as Sleepex Reg'd., Montreal, Canada. Filed June 6, 1939.

SLEEPEX

For Medicinal Compound for Use in the Treatment of Insomnia.
Claims use since July, 1933.

Ser. No. 420,364. WILLIAM G. FARNSWORTH, doing business as Bel-Vita Company, Lansing, Mich. Filed June 10, 1939.

BEL VITA
★ A SPECIAL PURPOSE FOOD

No claim is made to the words "A Special Purpose Food."
For Diet Supplement and Body Building Tonic.
Claims use since Nov. 4, 1938.

CLASS 9

Explosives, Firearms, Equipments, and Projectiles

Ser. No. 419,116. HERCULES POWDER COMPANY, Wilmington, Del. Filed May 5, 1939.

HERCOAL

For Dynamites.
Claims use since Apr. 12, 1939.

CLASS 12

Construction Materials

Ser. No. 408,826. BARCLAY MANUFACTURING COMPANY, INC., New York, N. Y. Filed July 23, 1938.

BARCLAY

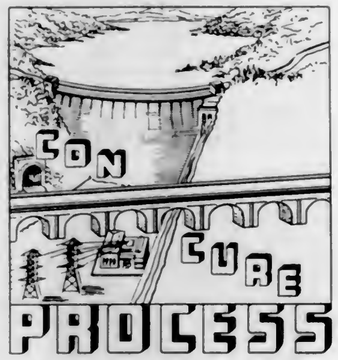
For Pressed Wood Fiber Board.
Claims use since Dec. 29, 1933.

Ser. No. 411,578. JOHN B. KRITZER, doing business as Kritzer Contracting Co., Oak Park, Ill. Filed Oct. 13, 1938.

BRICKITE

For Monolithic Masonry Brick.
Claims use since Sept. 21, 1938.

Ser. No. 415,138. W. H. ORR, doing business as Surety Waterproofing Company, San Francisco, Calif. Filed Jan. 23, 1939.



No claim is made to the words "Cure Process" apart from the mark.
For Material for Water-Proofing Concrete.
Claims use since Jan. 1, 1939.

505 O. G.—2

Ser. No. 419,276. HARRY SHEFTEL, doing business as Aywon Damproofing Company, New York, N. Y. Filed May 10, 1939.



For Chemical Preparation To Be Used for Damp-Proofing Brick Walls and Preventing the Penetration of Moisture.
Claims use since Aug. 7, 1937.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 416,757. GLADYS SKLUTH, doing business as Allen Innovations, New York, N. Y. Filed Mar. 7, 1939.



For Slide Fasteners.
Claims use since July 10, 1937.

Ser. No. 418,211. THE STAR PAPER FASTENER CO., INC., Norwalk, Conn. Filed Apr. 13, 1939.

COMET

For Wire Machine Staples, Tacking Staples, Paper Clinching Staples, Upholstering Staples, Packaging Staples, Roller Shade Staples, Screen Staples, and Staple Strips.
Claims use since Nov. 6, 1936.

Ser. No. 420,188. PHILIP F. SCOFIELD, doing business as Scofield Manufacturing Co., Palo Alto, Calif. Filed June 5, 1939.

Water Wand

For Velocity Reducing Liquid Nozzles.
Claims use since Apr. 1, 1939.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 407,414. THE AUTO-SOLER COMPANY, Atlanta, Ga. Filed June 13, 1938.



The vertical lining on the drawing indicates red and the horizontal lining indicates shading.
For Wire for Stitching, Stapling, Etc.
Claims use since July 26, 1934.

CLASS 15

Oils and Greases

Ser. No. 402,895. CONTINENTAL OIL COMPANY, Ponca City, Okla. Filed Feb. 10, 1938.

CHEROKEE

For Lubricating Oil.
Claims use since Aug. 6, 1934.

Ser. No. 416,246. BRADFORD OIL REFINING COMPANY, Bradford, Pa. Filed Feb. 20, 1939.

BORZOI
A THOROUGHBRED LUBRICANT



The word "Lubricant" is disclaimed apart from the mark.
For Lubricating Oils.
Claims use since Feb. 1, 1939.

Ser. No. 417,559. SWAN-FINCH OIL CORPORATION, New York, N. Y. Filed Mar. 27, 1939.

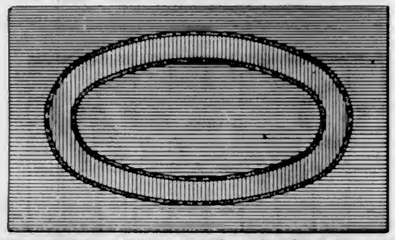
CENTURY

For Lubricating Oils and Greases.
Claims use since Nov. 27, 1934.

CLASS 16

Paints and Painters' Materials

Ser. No. 417,139. THE PATTERSON-SARGENT COMPANY, Cleveland, Ohio. Filed Mar. 16, 1939.



The rectangle and inner ellipse in the accompanying drawing are lined to represent the color blue and the elliptical band to represent the color red and the elliptical rings to represent the color yellow, the colors being essential features of the mark.
For Dry and Ready Mixed Paints, Paint Enamels, Stains, Lacquers, and Varnishes.
Claims use since Aug. 12, 1933.

Ser. No. 419,459. VEGETABLE OIL PRODUCTS COMPANY, INC., Wilmington, Calif. Filed May 15, 1939.

THERMOIL

For Oils and Greases for Use in the Manufacture of Paint.
Claims use since Jan. 24, 1938.

Ser. No. 419,979. THE SAVOGRAN COMPANY, Boston, Mass. Filed May 29, 1939.

STRYPEEZE

For Paint and Varnish Remover.
Claims use since May 10, 1939.

CLASS 17

Tobacco Products

Ser. No. 419,778. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed May 24, 1939.



For Cigarette Tobacco.
Claims use since May 3, 1939.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 410,134. THE FIRESTONE TIRE & RUBBER COMPANY, Akron, Ohio. Filed Aug. 31, 1938.

AIRIDE

For Pneumatic Suspension and Shock Absorbing Units for Land Vehicles and Airplane Landing Gear.
Claims use since Oct. 15, 1935.

Ser. No. 419,318. UNION ASBESTOS & RUBBER COMPANY, Chicago, Ill. Filed May 11, 1939.

ESPRO

For Fabricated Steel Products—Namely, Hand Propelled Packing House Trucks, Steel Factory Box Trucks, and Various Refrigerator Railway Car Parts—Namely, Steel Bulkheads, Floor Rack Holders, Doorway Frames, and Ice Grates.
Claims use since Apr. 15, 1939.

Ser. No. 420,106. KROLL BROTHERS COMPANY, Chicago, Ill. Filed June 2, 1939.

KROLL'S-ROYCE

For Baby Carriages and Go-Carts.
Claims use since Jan. 23, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 419,102. AIR DEVICES CORPORATION, Meriden, Conn. Filed May 5, 1939.



For Electric Switches.
Claims use since September, 1916.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 420,284. RALPH MICHAELS, Chicago, Ill. Filed June 8, 1939.



No claim is made to the representation of the goods apart from the mark.
For Shuttlecocks.
Claims use since Apr. 5, 1939.

Ser. No. 420,777. WARREN D. OWNBY, Tulsa, Okla. Filed June 21, 1939.

HISTRO

For Game Designed for Educational Purposes and for Testing the Players' Skill in Remembering Historical Facts of American History Such as Personages, Places, and Events, and Played with Cards Involving Questions and Answers.
Claims use since Nov. 13, 1938.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 413,298. CONSOLIDATED MACHINERY & SUPPLY CO., LTD., Los Angeles, Calif. Filed Nov. 30, 1938.

COMET

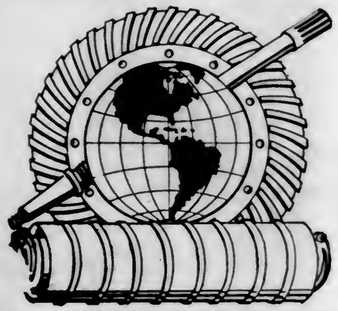
For Power Saws and Wood-Working Machinery.
Claims use since July 2, 1938.

Ser. No. 414,162. WERNER ROTERBERG, doing business as Rudolf Prozesky, Dusseldorf, Germany. Filed Dec. 23, 1938.

Procedo

For Lathes, Chasing Lathes, Grinding Machines, Polishing Machines, and Stamping Machines, and Parts Thereof, Ball and Roller Bearing Centres and Centering Cones.
Claims use since April, 1930.

Ser No. 417,915. INTERNATIONAL PARTS CORP., Chicago, Ill. Filed Apr. 6, 1939.



The representation of the parts of an automobile such as the shaft, muffler, gears, and plate, is disclaimed apart from the mark.

For Mufflers for Internal Combustion Engines and Parts Thereof, Axle and Drive Shafts, Cylinder Heads, and Gears and Pinions.

Claims use since Mar. 15, 1939.

Ser. No. 418,884. MAINE STEEL, INC., South Portland, Maine. Filed Apr. 29, 1939.

WEARALOY

For Vehicle-Carried, Power-Operated Digging Bucket, Its Teeth, and Its Controls.

Claims use since Feb. 6, 1939.

Ser. No. 419,211. THE CUTTER MACHINE CO., St. Louis, Mo. Filed May 8, 1939.

AJAX

For Cloth Laying, Folding, and Cutting Machines.

Claims use since January, 1917.

Ser. No. 419,806. INTERNATIONAL BUSINESS MACHINES CORPORATION, New York, N. Y. Filed May 25, 1939.

HEKTOWRITER

For Typewriting Machines.

Claims use since Mar. 24, 1939.

Ser. No. 419,836. INGERSOLL-RAND COMPANY, New York, N. Y. Filed May 25, 1939.

COROC

For Core Drills.

Claims use since June 10, 1938.

Ser. No. 420,056. STANLEY GRUBER, doing business as Silver King Burnisher Co., New York, N. Y. Filed June 1, 1939.

SILVER KING

For Burnishing Machines.

Claims use since Mar 1, 1939.

Ser. No. 420,057. STANLEY GRUBER, doing business as Silver King Burnisher Co., New York, N. Y. Filed June 1, 1939.

SILVER QUEEN

For Burnishing Machines.

Claims use since May 26, 1939.

Ser. No. 420,178. CLARENCE W. HECOX, Arlington, Va. Filed June 5, 1939.

HIXER

For Weed Pullers.

Claims use since Mar. 15, 1939.

CLASS 24

Laundry Appliances and Machines

Ser. No. 420,207. AMERICAN PLUSH & VELVET PRESSBOARD CO. INC., New York, N. Y. Filed June 6, 1939.

"NEEDLEBOARD"

For Pressboards.

Claims use since Jan. 1, 1939.

Ser. No. 420,619. THE BAND BOX CORPORATION, St. Louis, Mo. Filed June 17, 1939.



For Machinery for Dry Cleaning of Fabrics.

Claims use since March, 1935.

CLASS 25

Locks and Safes

Ser. No. 420,654. THE WATERBURY LOCK & SPECIALTY COMPANY, Milford, Conn. Filed June 17, 1939.

WALSCO

For Padlocks.

Claims use since Oct. 15, 1938.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 413,968. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed Dec. 16, 1938.

MICROTOMIC

For Sensitized Photographic Film.

Claims use since Nov. 16, 1938.

Ser. No. 417,756. GENERAL REGISTER CORPORATION, New York, N. Y. Filed Apr. 1, 1939.

SIMPLEX

For Ticket Issuing Registers.

Claims use since 1918.

Ser. No. 420,074. GEORGE RUEHFEL COMPANY, INC., Brooklyn, N. Y. Filed June 1, 1939.

SECURAC

For Hydrometers, Thermo-Hydrometers, and Paper-Scale Thermometers.

Claims use since Oct. 15, 1938.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 414,060. DUROCHARM COMPANY, New York, N. Y. Filed Dec. 21, 1938.

Signature-Note

For Vanity Cases and Compacts Made of Brass Electro Plated with Gold.

Claims use since Dec. 5, 1938.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 419,926. FREDERICK J. MESSIER, doing business as Cellulose Sanitary Products, Hardwick, Mass. Filed May 27, 1939.

ADES-T-KLEEN

No claim is made to the word "Kleen" apart from the mark.

For Disposable Chemically Treated Tissue Dusters.

Claims use since Apr. 20, 1939.

CLASS 31

Filters and Refrigerators

Ser. No. 416,605. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Mar. 2, 1939.

DUREX

For Fluid Flow Filters and the Like Made from Metal Powders.

Claims use since Jan. 2, 1937.

Ser. No. 418,933. MASTER REFRIGERATED LOCKER SYSTEMS, INC., Sioux City, Iowa. Filed May 1, 1939.

HYDROLOC

For Refrigerated Units Having a Plurality of Lockers.

Claims use since Oct. 3, 1938.

Ser. No. 420,767. JORDAN MARSH COMPANY, Boston, Mass. Filed June 21, 1939.

JM

For Refrigerators.

Claims use since June 25, 1938.

CLASS 32

Furniture and Upholstery

Ser. No. 419,603. MEYER M. FISCH, doing business as Selwell Manufacturing Company, Los Angeles, Calif. Filed May 19, 1939.

"HA-PEE"



The picture is fanciful.

For Bassinet, Nursery Seat, Trainer Seat, High Chair, and Play Pen Pads.

Claims use since December, 1938.

Ser. No. 419,891. SUN GLOW INDUSTRIES, INC., Mansfield, Ohio. Filed May 26, 1939.



For Drum Tables, End Tables, Occasional Tables, Drop-Leaf Tables, Cocktail Tables, Radio Tables, Youth Beds, Kneehole Desks, Chests, Dressers, Beds, Secretary Desks, Winthrop Desks, and Other Desks, Bookcases, Novelty and Occasional Furniture, and Bedroom Suites in the Nature of Vanity, Dresser, Bed, Chest, Night Stand, Bench, Chest on Chest, and Desk Chest.
Claims use since August, 1937.

Ser. No. 420,683. NATIONAL PRODUCTION COMPANY, Detroit, Mich. Filed June 19, 1939.

TEETERBABE

For Child's Jumper Chair.
Claims use since June, 1932.

Ser. No. 420,849. CLARK & HAMMER, INC., Belleville, N. J. Filed June 23, 1939.

BELVALIER

For Venetian Blinds.
Claims use since Apr. 15, 1939.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 413,550. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Dec. 7, 1938.

FRIGIDAIRE

For Building Service Water Heaters.
Claims use since Mar. 31, 1938.

Ser. No. 419,822. L. E. STEVENS CO., Cincinnati, Ohio. Filed May 25, 1939.



The words "Oval Stream" are disclaimed except in connection with the rest of the mark.
For Air Conditioning and/or Heating Conduits and Piping.
Claims use since Mar. 15, 1939.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 418,772. GEORGE K. FEINBERG, doing business as India Tire Company, Brookline, Mass. Filed Apr. 27, 1939.

INDIAIR

For Tubes and Tires.
Claims use since Apr. 14, 1939.

CLASS 36

Musical Instruments and Supplies

Ser. No. 416,910. MONINGTON & WESTON, LTD., London, England. Filed Mar. 10, 1939.

TUPLEX

For Musical Instruments—Namely, Pianofortes.
Claims use since February, 1932.

CLASS 37

Paper and Stationery

Ser. No. 415,171. MENASHA PRODUCTS COMPANY, Menasha, Wis. Filed Jan. 24, 1939.

ZERO - SEAL

The word "Seal" is disclaimed apart from the mark.
For Transparent Waxed Paper.
Claims use since Apr. 14, 1938.

Ser. No. 417,191. VISIBLE INDEX CORP., New York, N. Y. Filed Mar. 17, 1939.

VISIrecord

The word "Record" is disclaimed apart from the mark.
For Visible Indexing Cards.
Claims use since September, 1938.

Ser. No. 417,978. REMINGTON RAND INC., Buffalo, N. Y. Filed Apr. 7, 1939.

VARIADEX

For Card and Correspondence File Guides.
Claims use since August, 1930.

Ser. No. 419,893. RICHARD E. THIBAUT, INC., New York, N. Y. Filed May 26, 1939.



For Wallpapers.
Claims use since May 12, 1939.

CLASS 38

Prints and Publications

Ser. No. 418,228. COMPLETE SERVICE PUBLISHING COMPANY, Chicago, Ill. Filed Apr. 13, 1939.



For Monthly Periodical Publication.
Claims use since Oct. 1, 1916.

Ser. No. 418,962. WALTER BARBER, Long Beach, Calif. Filed May 2, 1939.



For Section of a Periodical Publication.
Claims use since Jan. 4, 1937.

Ser. No. 419,662. FERGUSON PUBLISHING COMPANY, INC., New York, N. Y. Filed May 22, 1939.

Fleet Owner

For Periodical.
Claims use since September, 1928.

Ser. No. 419,953. THE CONARD-PYLE COMPANY, West Grove, Pa. Filed May 29, 1939.

Success with Roses

For Magazine.
Claims use since March, 1935.

Ser. No. 419,976. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed May 29, 1939.

Modern Pharmacy

For Periodically Published Publication.
Claims use since September, 1904.

CLASS 39

Clothing

Ser. No. 412,774. WILLIAM F. MOHAN, doing business as the Wm. F. Mohan Co., New York, N. Y. Filed Nov. 15, 1938.



For Men's and Boys' Dress, Negligee, and Work Shirts, Pajamas, Underwear, and Robes.
Claims use since 1851.

Ser. No. 415,250. THE J. L. HUDSON COMPANY, Detroit, Mich. Filed Jan. 26, 1939.



The words "Zephyr Clothes" and "Detroit, U. S. A." are disclaimed apart from the mark.
For Men's Suits.
Claims use since September, 1927.

Ser. No. 417,642. CRADDOCK-TERRY SHOE CORPORATION, Lynchburg, Va. Filed Mar. 30, 1939.

Lifeline

For Leather Shoes.
Claims use since June 1, 1915.

Ser. No. 417,807. THE KOSYLETTE GARMENT COMPANY INC., Buffalo, N. Y. Filed Apr. 3, 1939.

The Kosylette

For Women's Under Garments of the Type Known as Step-Ins and/or Panties.
Claims use since Oct. 14, 1938.

Ser. No. 419,222. FOX MANUFACTURING CO., INC., New York, N. Y. Filed May 9, 1939.

MYTEX

For Men's and Boys' Dress, Negligee, and Work Shirts and Underwear; and Men's, Women's, and Boys' Sportswear—Namely, Sweaters of Cloth, Leather, or Knitted Fabric and/or Any Combination Thereof; Polo Shirts, Basque Shirts, Bathing Suits, and Sport Shorts in the Nature of Outer Short Trousers.
Claims use since June 14, 1938.

Ser. No. 419,676. MICHAELS, STERN & CO. INC., Rochester, N. Y. Filed May 22, 1939.

Kyro

For Men's and Boys' Suits.
Claims use since Oct. 7, 1938.

Ser. No. 419,677. MICHAELS, STERN & CO. INC., Rochester, N. Y. Filed May 22, 1939.

TOURCOTE

For Men's and Boys' Topcoats.
Claims use since May 7, 1935.

Ser. No. 419,694. ALEX LEE WALLAU, INC., New York, N. Y. Filed May 22, 1939.

JAN

For Hosiery and Anklets.
Claims use since July, 1936.

Ser. No. 419,818. PHOENIX HOSIERY COMPANY, Milwaukee, Wis. Filed May 25, 1939.

AJ-L-NEE

For Hosiery.
Claims use since Mar. 15, 1939.

Ser. No. 420,064. LORRAINE MANUFACTURING COMPANY, Pawtucket, R. I., and New York, N. Y. Filed June 1, 1939.

Taylora

For Women's and Misses' Skirts, Waists, Suits, Coats, Dresses, and Pajamas; Children's Rompers, Dresses, and Suits; Men's and Boys' Suits, Coats, and Trousers.
Claims use since Dec. 13, 1938.

Ser. No. 420,583. HESS-TAYLOR-KREISS INC., New York, N. Y. Filed June 16, 1939.

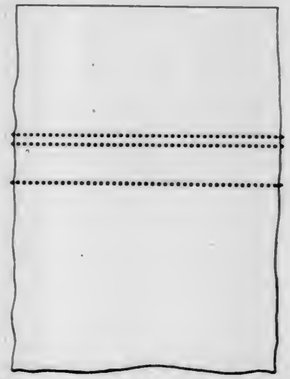
Vitalon

For Hosiery.
Claims use since Apr. 22, 1939.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 406,497. CALLAWAY MILLS, La Grange, Ga. Filed May 19, 1938.



The trade-mark consists of three distinctive black strands interwoven near an edge of a fabric of generally white or light color, two of the strands being close together but spaced apart from each other, and the third strand being further spaced from the pair of strands inwardly from the edge. No claim is made to the representation of the goods.

For Cotton Piece Goods—Namely, Cover Duck.
Claims use since 1929.

Ser. No. 419,296. JOHN B. ELLISON & SONS, INC., Philadelphia, Pa. Filed May 11, 1939.

LONACH TWEEDS

The word "Tweeds" is disclaimed apart from the mark.
For Woolen Piece Goods.
Claims use since January, 1930.

Ser. No. 419,717. EICHMANN & HECHT, New York, N. Y. Filed May 23, 1939.

MERRY MOMENT

For Textile Piece Goods of Rayon, Cotton, and Silk Yarns and Combinations Thereof.
Claims use since June 1, 1938.

Ser. No. 420,166. OSCAR J. CIRESA, INC., Union City, N. J. Filed June 5, 1939.

IRANA

For Piece Goods of Silk, Cotton, Rayon, and Wool, and Piece Goods of Mixtures of These Materials.
Claims use since May 24, 1939.

Ser. No. 420,216. CARTER BROTHERS, INCORPORATED, Chattanooga, Tenn. Filed June 6, 1939.

RetRac

For Bedspreads Made of Washable Textile Fabric.
Claims use since Jan. 10, 1934.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 417,673. SEMINOLE FLAVOR COMPANY, Chattanooga, Tenn. Filed Mar. 27, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.



The words "Double-Dry" are disclaimed apart from the mark.

For Carbonated Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups for Compounding the Same.
Claims use since Jan. 16, 1939.

Ser. No. 417,736. EDWARD R. CONEY, doing business as The Liquid-Ginger Co., San Francisco, Calif. Filed Apr. 1, 1939.



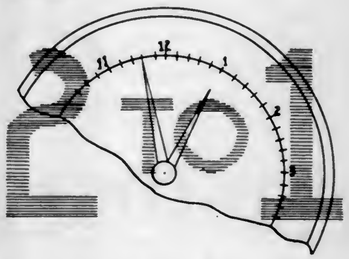
For Maltless Nonalcoholic Beverages and Beverage Extract.
Claims use since Oct. 12, 1938.

Ser. No. 418,169. PURE ROCK MINERAL SPRINGS CORPOTION, Ellenville, N. Y. Filed Apr. 12, 1939.



For Spring Water.
Claims use since Nov. 12, 1938.

Ser. No. 420,089. GEORGE BUSTON, doing business as The Sun Rise Bottling Company, Tazewell, Va. Filed June 2, 1939.

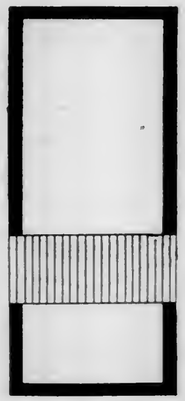


For Nonalcoholic, Noncereal, Maltless Beverages, Sold as Soft Drinks and Sirups and Extracts for Making the Same.
Claims use since Apr. 28, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 393,274. GERBER & CO., INC., New York, N. Y. Filed May 26, 1937.



The drawing is lined for red. The mark consists of a rectangular oblong frame in dark heavy shading having extending across the same a transverse band of red in contrast with the background within said rectangular oblong frame, which background extends substantially above and substantially below the band. Applicant is the owner of trade-mark registrations No. 241,795 of May 8, 1928, and No. 251,045 of December 25, 1928.

For Cheese.

Claims use since Apr. 28, 1937.

Ser. No. 410,700. LEROY A. MATTESON, doing business as LeRoy Manufacturing Co., Detroit Lakes, Minn. Filed Sept. 17, 1938.

Hamburger
PIE

No claim is made to the word "Hamburger" apart from the mark.

For Meat Patties.

Claims use since Aug. 30, 1938.

Ser. No. 410,767. ATLANTIC COAST FISHERIES CORPORATION OF NEW YORK, New York, N. Y. Filed Sept. 20, 1938.

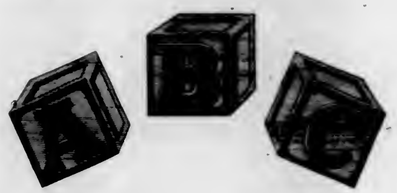
FRIGIDSEA

Applicant is the registered owner of United States registration No. 269,167, issued March 25, 1930.

For Fresh Frozen Fish Fillets.

Claims use since Nov. 27, 1937.

Ser. No. 415,418. THE SHELLABARGER MILL & ELEVATOR COMPANY, doing business as The Shellabarger Mills, Salina, Kans. Filed Jan. 30, 1939.



For Wheat Flour.

Claims use since Aug. 17, 1931.

Ser. No. 416,174. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y. Filed Feb. 18, 1939.

DEX

Applicant is also the owner of registration 248,939.

For Corn Syrup Used in the Manufacture of Confectionery and Bakery Products.

Claims use since May 31, 1937.

Ser. No. 416,499. CHARLES G. BATHÉ, Tulsa, Okla. Filed Feb. 28, 1939.

Ranger
FOOD PRODUCTS



No claim is made to the words "Food Products" and "Flavor" apart from the mark.

For Coffee, Salad Dressing, Pancake Flour, Cookies, Peanut Butter, Egg Noodles, and Bread.

Claims use since Feb. 21, 1938.

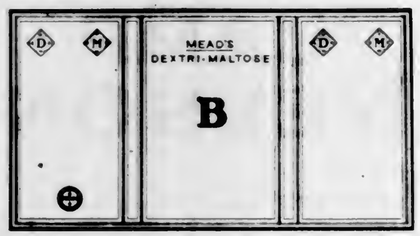
Ser. No. 418,830. C. A. GREINER, New Orleans, La. Filed Apr. 28, 1939.

BARNACLE BILL

For Canned Fish and Canned Shellfish.

Claims use since Apr. 5, 1939.

Ser. No. 419,266. MEAD JOHNSON & COMPANY, Evansville, Ind. Filed May 10, 1939.

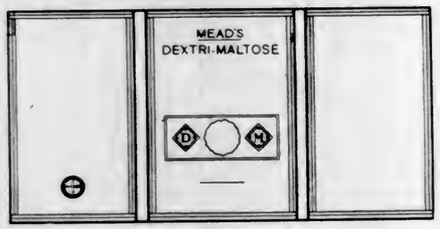


The following mentioned trade-mark registrations are owned by applicant: Nos. 128,743, 136,483, 136,484, 136,485, 154,589, 173,340, 184,697, 280,626 and 295,757. The word "Maltose" is disclaimed apart from the mark. The drawing is lined for red.

For Specially Prepared Food for Infants and Invalids.

Claims use since May 1, 1939.

Ser. No. 419,267. MEAD JOHNSON & COMPANY, Evansville, Ind. Filed May 10, 1939.



The following mentioned trade-mark registrations are owned by applicant: Nos. 128,743, 136,483, 136,484, 136,485, 154,589, 173,340, 184,697 and 295,757. The word "Maltose" is disclaimed apart from the mark.

For Specially Prepared Food for Infants and Invalids.

Claims use since May 1, 1939.

Ser. No. 419,370. CORN PRODUCTS REFINING COMPANY, New York, N. Y. Filed May 13, 1939.

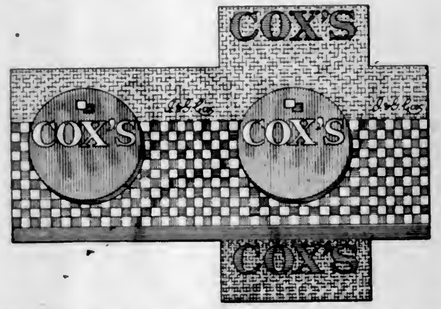
MAZOLA
MAID



For Salted Popcorn.

Claims use since May 4, 1939.

Ser. No. 419,795. THE COX GELATINE COMPANY, New York, N. Y. Filed May 25, 1939.



The drawing is lined for red, blue, and yellow. No claim is made to the representation of the package per se.

For Gelatine.

Claims use since June 1, 1937.

Ser. No. 419,805. ILLINOIS PRODUCERS' CREAMERIES, Chicago, Ill. Filed May 25, 1939.

Prairie
Farms

Applicant is the owner of registration No. 342,106, dated January 5, 1937.

For Cheese.

Claims use since September, 1936.

Ser. No. 419,851. CEDERGREEN FROZEN PACK CORPORATION, Wenatchee, Wash. Filed May 26, 1939.



For Frozen Vegetables and Fruits.

Claims use since June 25, 1938.

Ser. No. 419,863. FLEETWOOD COFFEE COMPANY, Chattanooga, Tenn. Filed May 26, 1939.

Suparoma-tized

For Coffee.

Claims use since May 15, 1939.

CLASS 47

Wines

Ser. No. 420,214. CANADIAN AMERICAN SPIRITS CORP., Jersey City, N. J. Filed June 6, 1939.

kingsom

For Wines.
Claims use since May 6, 1939.

Ser. No. 420,215. CANADIAN AMERICAN SPIRITS CORP., Jersey City, N. J. Filed June 6, 1939.

Fedwin

For Wines.
Claims use since May 6, 1939.

CLASS 48

Malt Beverages and Liquors

Ser. No. 393,405. THE GEO. WIEDEMANN BREWING CO., INC., Newport, Ky. Filed May 28, 1937. Under 10-year proviso.

Royal Amber

For Beer.
Claims use since Jan. 1, 1894.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 408,386. KINGS INTERNATIONAL, INCORPORATED, Chicago, Ill. Filed July 11, 1938.

Time's Masterpiece

For Whiskey.
Claims use since July 14, 1934.

Ser. No. 420,008. KELLY BROTHERS COMPANY, Minneapolis, Minn. Filed May 31, 1939.

CAMP NELSON

For Whiskey.
Claims use since May 15, 1913.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 419,707. AMERICAN DECORATIVE FLOWER COMPANY, Baltimore, Md. Filed May 23, 1939.



The words "Brand" and "Better Made" are disclaimed apart from the mark.

For Florists' Supplies—Namely, Florists' Picks, Mats, Flower Holders, Wreath Forms, Prepared Foliages, Palm Plants, Florists' Wire Forms, Decorative Cord and Frieze Roping, Florists' Easels, Plant Sticks, Florists' Canes, and Florists' Stands.
Claims use since May 15, 1933.

Ser. No. 420,031. RAYMOND V. SWEENY, Freeport, N. Y. Filed May 31, 1939.

Petomat

For Combination Feeding Container and Device for Regulating the Time of Feeding.
Claims use since May 19, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 1, 1939

369,556. TEA POTS, COFFEE POTS, COCKTAIL SHAKERS, SERVING PLATES AND SERVICE PLATES AND PLATE COVERS OF BASE METAL IN THE NATURE OF GIFT WARE. KENSINGTON, INCORPORATED, New Kensington, Pa.
Filed January 28, 1936. Serial No. 374,196. PUBLISHED MAY 23, 1939. Class 13.

369,557. AUTOMATIC HUMIDIFIERS FOR VACUUM, STEAM, AND HOT WATER RADIATORS. MAID-O'-MIST, INC., Chicago, Ill.
Filed March 23, 1936. Serial No. 376,292. PUBLISHED MAY 23, 1939. Class 34.

369,558. ASTRINGENT LOTIONS, ACNE LOTIONS, ANTI-WEATHER CREAMS, ANTI-WRINKLE CREAMS, BLACKHEAD PAINTS, BLEACHING CREAMS, ETC. JANE SEYMOUR LIMITED, London, England.
Filed December 12, 1936. Serial No. 386,699. PUBLISHED MAY 23, 1939. Class 6.

369,559. OUTER SHIRTS, PANTS, AND JACKETS, OBERMAN & COMPANY, Jefferson City, Mo.
Filed January 30, 1937. Serial No. 388,366. PUBLISHED MAY 16, 1939. Class 39.

369,560. TOP FINISH OR DRESSING FOR AUTOMOBILES. PURITAN SOAP COMPANY, Rochester, N. Y., assignor to Puritan Soap Company, Inc., Rochester, N. Y., a corporation of New York.
Filed April 15, 1937. Serial No. 391,396. PUBLISHED MAY 23, 1939. Class 4.

369,561. VITAMINE CONTAINING FOODS FOR PETS—NAMELY, DOGS, CATS, AND HORSES. CANINE VITA-CANDY COMPANY, INC., Waterbury, Conn.
Filed August 7, 1937. Serial No. 396,117. PUBLISHED MAY 23, 1939. Class 46.

369,562. EGGS. JOEL BARLOW MCKENZIE, doing business as Triangle Poultry Farm, Newfield, N. J.
Filed August 31, 1937. Serial No. 396,962. PUBLISHED MAY 23, 1939. Class 46.

369,563. ELECTRICAL THERAPEUTIC VAPORIZER AND HUMIDIFIER FOR DISCHARGING VAPOR TO ADD MOISTURE TO THE AIR, AND FOR DISPENSING FRAGRANT ODORS AND MEDICINAL INHALANTS. ELMER A. REID, Morrisville, Pa.
Filed October 1, 1937. Serial No. 398,019. PUBLISHED MAY 23, 1939. Class 44.

369,564. SATURATED FIBER BOARD. THE CELOTEX CORPORATION, Chicago, Ill.
Filed October 22, 1937. Serial No. 398,810. PUBLISHED MAY 16, 1939. Class 12.

369,565. WATERPROOFING AND WATER-REPELLING AGENTS FOR TEXTILES AND FABRICS. AMERICAN ANILINE PRODUCTS, INC., New York, N. Y.
Filed October 28, 1937. Serial No. 399,025. PUBLISHED JANUARY 11, 1938. Class 6.

369,566. PAPER STAPLES, PAPER FASTENERS, AND HAND STAPLING MACHINES. CHAMPION FASTENER CORP., New York, N. Y.,
Filed November 10, 1937. Serial No. 399,556. PUBLISHED MAY 31, 1938. Class 37.

369,567. WOMEN'S, MISSES', AND CHILDREN'S OUTER WEARING APPAREL AND COMBINATIONS OF GARMENTS AND ACCESSORIES—NAMELY, SWEATERS, VESTS, SCARVES, HATS, ETC. C. CRAWFORD HOLLIDGE, LTD., Boston, Mass.
Filed November 13, 1937. Serial No. 399,711. PUBLISHED MAY 9, 1939. Class 39.

369,568. POWDERS FOR HEADACHES, MIGRAINE, NEURALGIA, COLDS, INFLUENZA, ARTHRITIC AILMENTS, AND TOOTHACHE. MOKOTOWSKA FABRYKA CHEMICZNO-FARMACEUTYCZNA ADOLF GASECKI I SYNOWIE SPOLKA AKCYJNA, Warsaw, Poland.
Filed December 7, 1937. Serial No. 400,582. PUBLISHED MAY 23, 1939. Class 6.

369,569. CANNED COFFEE, CORN, AND PEACHES. AMERICAN RENAISSANCE ASSOCIATES, INC., White Plains, N. Y.
Filed December 17, 1937. Serial No. 400,940. PUBLISHED MAY 23, 1939. Class 46.

369,570. CHILDREN'S PLAY SUITS. RELIANCE MANUFACTURING COMPANY, Chicago, Ill.
Filed January 3, 1938. Serial No. 401,509. PUBLISHED MAY 16, 1939. Class 39.

369,571. PERIODICAL PUBLICATION "MINING TECHNOLOGY". AMERICAN INSTITUTE OF MINING AND METALLURGICAL ENGINEERS, INC., New York, N. Y.
Filed February 24, 1938. Serial No. 403,352. PUBLISHED MAY 16, 1939. Class 38.

369,572. CHILDREN'S DRESSES. HARRY RAND., doing business as Rand & Rand, Philadelphia, Pa.
Filed February 28, 1938. Serial No. 403,521. PUBLISHED MAY 9, 1939. Class 39.

369,573. PREPARATION FOR PRESERVING VICTUALS. GEHRING & NEIWEISER, Bielefeld, Germany.
Filed March 8, 1938. Serial No. 403,817. PUBLISHED MAY 16, 1939. Class 6.

369,574. HAND OPERATED CUTTERS OR POWER OPERATED CUTTING MACHINES FOR CUTTING TEXTILES, UPHOLSTERING MATERIALS, INSULATING MATERIALS, PAPER, ETC. ALFA MACHINE COMPANY, Milwaukee, Wis.
Filed March 9, 1938. Serial No. 403,848. PUBLISHED MAY 23, 1939. Class 23.

369,575. EVAPORATED MILK. WESCO FOODS COMPANY, Cincinnati, Ohio.
Filed March 15, 1938. Serial No. 404,098. PUBLISHED MAY 16, 1939. Class 46.

369,576. TOPCOATS AND RAINCOATS FOR MEN, WOMEN, BOYS, AND GIRLS. NEPTUNE GARMENT COMPANY, Boston, Mass.
Filed March 28, 1938. Serial No. 404,580. PUBLISHED MAY 2, 1939. Class 39.

369,577. ELECTRICAL SOCKETS, SWITCHES, WIRE FUSES, ELECTRIC APPLIANCE PLUGS AND SOCKETS, ELECTRIC MOTORS AND PARTS, ELECTRIC SOCKET APPLIANCES, RADIO RECEIVING SETS, ELECTRIC LAMPS, ELECTRIC FANS, ELECTRICAL CAPACITY INDICATORS, ELECTRIC RELAYS, SWITCH PANELS, CIRCUIT BREAKERS, AND ELECTRIC PERCOLATORS. THE FOLSOM COMPANY, Dallas, Tex.
Filed April 4, 1938. Serial No. 404,846. PUBLISHED MAY 23, 1939. Class 21.

369,578. CHINA TABLEWARE. STETSON CHINA COMPANY, INC., Chicago, Ill.
Filed April 5, 1938. Serial No. 404,922. PUBLISHED MAY 23, 1939. Class 30.

369,579. DEODORANT. PEARSON PHARMACAL COMPANY, INC., New York, N. Y.
Filed April 15, 1938. Serial No. 405,316. PUBLISHED MAY 16, 1939. Class 6.

369,580. TOOLS AND PARTS THEREOF FOR USE IN INSTALLING, MAINTAINING, AND REPAIRING ELECTRIC LINES, ETC. JAMES R. KEARNEY CORPORATION, St. Louis, Mo.
Filed April 20, 1938. Serial No. 405,507. PUBLISHED MAY 23, 1939. Class 23.

369,581. HAIR OIL. CHASE & PICKENPAUGH, Long Beach, Calif.
Filed April 27, 1938. Serial No. 405,754. PUBLISHED MAY 23, 1939. Class 6.

369,582. LIGHTING EQUIPMENT—NAMELY, ELECTRICAL FLOOD LIGHTS, REFLECTORS, LUMINARIES, LAMPS. BLACK KNIGHT COMPANY, Chattanooga, Tenn.
Filed May 31, 1938. Serial No. 406,903. PUBLISHED MAY 23, 1939. Class 21.

369,583. SAPONACEOUS COMPOUNDS FOR CLEANING THE HANDS, SHAVING CREAM, SHAVING STICKS, ETC. SHULTON, INC., New York, N. Y.
Filed July 2, 1938. Serial No. 408,170. PUBLISHED MAY 23, 1939. Class 4.

369,584. DRY KILNS. MOORE DRY KILN COMPANY OF OREGON, North Portland, Oreg.
Filed July 13, 1938. Serial No. 408,468. PUBLISHED MAY 23, 1939. Class 34.

369,585. LUMBER. ROBERT Z. DRAKE, Omaha, Nebr.
Filed September 15, 1938. Serial No. 410,584. PUBLISHED MAY 16, 1939. Class 12.

369,586. ELASTIC TEXTILE WIDE PIECE GOODS COMPOSED WHOLLY OR IN PART OF RAYON AND RUBBER THREADS. THE LA RESISTA CORSET COMPANY, Bridgeport, Conn.
Filed September 15, 1938. Serial No. 410,590. PUBLISHED MAY 23, 1939. Class 42.

369,587. BABY CREAM AND POWDER. JOSEPH SIMELSON, New York, N. Y.
Filed September 15, 1938. Serial No. 410,617. PUBLISHED DECEMBER 6, 1938. Class 6.

369,588. FLUID FOR HYDRAULIC BRAKES, SHOCK ABSORBERS, AND THE LIKE. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed September 17, 1938. Serial No. 410,692. PUBLISHED MAY 16, 1939. Class 6.

369,589. PERFUMES. LUCIEN LELONG, INC., Chicago, Ill.
Filed September 19, 1938. Serial No. 410,742. PUBLISHED MAY 23, 1939. Class 6.

369,590. DIAGNOSTIC TUNING DEVICES FOR MEDICAL USE. COLLEGE OF ELECTRONIC MEDICINE, BLANCHE & JEANNE R. ABRAMS MEMORIAL FOUNDATION, San Francisco, Calif.
Filed November 21, 1938. Serial No. 413,001. PUBLISHED MAY 23, 1939. Class 44.

369,591. MEN'S SUITS, TOPCOATS, OVERCOATS, RAINCOATS, COATS, VESTS, AND TROUSERS. L. GREIF & BRO., INC., Baltimore, Md.
Filed November 21, 1938. Serial No. 413,012. PUBLISHED MARCH 7, 1939. Class 39.

369,592. HOMOGENIZED MILK. GEORGE P. GUNDLACH, doing business as Esmond, Gundlach and Company, Cincinnati, Ohio.
Filed November 30, 1938. Serial No. 413,307. PUBLISHED MAY 16, 1939. Class 46.

369,593. LADIES' DRESSES, FROCKS, SMOCKS, UNIFORMS, SLACKS, SUN-TAN SUITS, BEACH PAJAMAS, BEACH OVERALLS, SHORTS, AND SLACK ENSEMBLES CONSISTING OF TROUSERS AND JACKET, AND TROUSERS, SKIRT, AND JACKET; CHILDREN'S PLAY SUITS, COTTON AND RAYON SUN-TAN SUITS WITH REMOVABLE SKIRTS AND ROMPERS; SLACK ENSEMBLES CONSISTING OF TROUSERS AND JACKET AND TROUSERS, SKIRT, AND JACKET; BEACH PAJAMAS, BEACH OVERALLS, AND SHORTS, AND HOUSE COATS. FRANCES GEE GARMENT CO., Kansas City, Mo.
Filed December 7, 1938. Serial No. 413,549. PUBLISHED MAY 16, 1939. Class 39.

369,594. METAL BORING MACHINE TOOLS. ECLIPSE COUNTERBORE COMPANY, Detroit, Mich.
Filed December 8, 1938. Serial No. 413,577. PUBLISHED APRIL 25, 1939. Class 23.

369,595. MEN'S AND BOYS' LEATHER, COTTON, AND WOOL GLOVES AND MITTENS; MEN'S AND BOYS' KNITTED AND CLOTH BATHING SUITS AND TRUNKS, ETC. HARRY A. SIMON & BRO., New York, N. Y.
Filed December 10, 1938. Serial No. 413,690. PUBLISHED MAY 9, 1939. Class 39.

369,596. THE FOLLOWING WOMEN'S GARMENTS—DRESSES, PAJAMAS, WRAP-AROUND DRESSES, SLACKS, OVERALLS, PLAY SUITS, SUN SUITS, CULOTTES, BLOUSES, SHIRTS, SKIRTS, HOUSECOATS, SMOCKS, BOLEROS, JACKETS, COATS, SLACK SUITS, AND APRONS. KRIST GUDNASON, doing business as Alice Frock Company, Oakland, Calif.
Filed December 13, 1938. Serial No. 413,781. PUBLISHED MAY 9, 1939. Class 39.

369,597. INSTRUMENT FOR INDICATING THE CONDITION OF STORAGE BATTERIES. INSTRUMENT SPECIALTIES COMPANY, INC., Little Falls, N. J.
Filed December 13, 1938. Serial No. 413,787. PUBLISHED MAY 23, 1939. Class 26.

369,598. PRINTING AND LITHOGRAPHIC INKS AND GREASES AND COMPOUNDS MADE UP OF VARIOUS KINDS OF GREASES, WAXES, AND OILS FOR ADJUSTING THE PHYSICAL PROPERTIES OF SUCH INKS. POPE & GRAY, INC., New York, N. Y.
Filed December 13, 1938. Serial No. 413,797. PUBLISHED MAY 16, 1939. Class 11.

369,599. LAUNDRY MACHINERY, CONSISTING OF WASHERS AND DRYING TUMBLERS USED IN LAUNDRIES AND DRY-CLEANING PLANTS FOR CLEANING, DE-ODORIZING, AND DRYING GARMENTS. GROSS MACHINERY CO. INC., Buffalo, N. Y.
Filed December 15, 1938. Serial No. 413,866. PUBLISHED MAY 23, 1939. Class 24.

369,600. PRINTED RECIPE CARDS SOLD AS SUCH. GENERAL MILLS, INC., Minneapolis, Minn.
Filed December 17, 1938. Serial No. 413,939. PUBLISHED MAY 16, 1939. Class 38.

369,601. WOMEN'S WEARING APPAREL—NAMELY, COATS, SUITS. J. F. DITTMAN COMPANY, INC., New York, N. Y.
Filed December 19, 1938. Serial No. 413,981. PUBLISHED MAY 16, 1939. Class 39.

369,602. GELATINE DESSERT. JOLLY JOAN, Portland, Oreg.
Filed September 28, 1938. Serial No. 411,055. PUBLISHED MAY 23, 1939. Class 46.

369,603. ELASTIC WEBBING IN THE BOLT AND IN THE PIECE. UNITED ELASTIC CORPORATION, Easthampton, Mass.
Filed October 5, 1938. Serial No. 411,315. PUBLISHED MAY 23, 1939. Class 42.

369,604. ADHESIVE CEMENTS. TH. GOLDSCHMIDT A.-G., Essen-Ruhr, Germany.
Filed October 12, 1938. Serial No. 411,558. PUBLISHED MAY 16, 1939. Class 5.

369,605. HOLDERS TO BE MOUNTED ON INSTRUMENT BOARDS FOR RECEIVING AND PERMANENTLY LOCKING IDENTIFICATION TAGS TO PERIODICALLY LICENSED VEHICLES OR ARTICLES. THE AUTO LICENSE SAFE COMPANY, Elyria, Ohio.
Filed October 17, 1938. Serial No. 411,674. PUBLISHED MAY 23, 1939. Class 19.

369,606. FABRICS DESIGNED MORE ESPECIALLY FOR USE AS INTERLININGS, STIFFENERS, AND PADDING AND SOLD BOTH IN THE BOLT AND IN THE PIECE. THE KENDALL COMPANY, Walpole, Mass.
Filed October 21, 1938. Serial No. 411,872. PUBLISHED MAY 23, 1939. Class 42.

369,607. PREPARATION FOR CLEANSING FALSE TEETH WITHOUT BRUSHING. EDWARD H. HEIL, Cleveland, Ohio.
Filed October 26, 1938. Serial No. 412,069. PUBLISHED MAY 23, 1939. Class 4.

369,608. FABRIC TREATED WITH NON-SLIPPING MATERIAL FOR USE IN PREVENTING SLIPPING OF RUGS. BEHR-MANNING CORPORATION, Troy, N. Y.
Filed November 8, 1938. Serial No. 412,490. PUBLISHED MAY 23, 1939. Class 50.

369,609. HAND BAGS, PORTFOLIOS, BRIEF CASES, POCKET BOOKS, TRUNKS, AND HAND LUGGAGE. SEBASTIAN S. KRESGE, doing business as Kresge Department Store, Newark, Newark, N. J.
Filed November 8, 1938. Serial No. 412,507. PUBLISHED MAY 23, 1939. Class 3.

369,610. WOMEN'S AND MISSES' WEARING APPAREL—NAMELY, DRESSES, GOWNS, COATS, SUITS, WRAPS, SKIRTS, AND BLOUSES. MUTUAL ROSENBLOOM CORPORATION, New York, N. Y.
Filed November 8, 1938. Serial No. 412,522. PUBLISHED MAY 9, 1939. Class 39.

369,611. MEN'S SUITS. HASPEL BROS., INC., New Orleans, La.
Filed November 12, 1938. Serial No. 412,640. PUBLISHED MAY 23, 1939. Class 39.

369,612. OVERCOATS, TOPCOATS, AND SUITS FOR MEN AND YOUNG MEN. EAGLE CLOTHES, New York, N. Y.
Filed November 14, 1938. Serial No. 412,700. PUBLISHED MAY 16, 1939. Class 39.

369,613. SHEAVES. AMERICAN ZINC COMPANY OF TENNESSEE, Mascot, Tenn.
Filed November 15, 1938. Serial No. 412,749. PUBLISHED MAY 23, 1939. Class 23.

369,614. MECHANICS' TOOLS—NAMELY, WRENCHES, PLIERS, CHISELS, TINNERS' SNIPS, SCREW DRIVERS, HAMMERS, HAND SAWS, COPING SAWS, HACK SAWS, SMOOTH PLANES, BLOCK PLANES, BIT BRACES, AUGER BITS, HAND DRILLS, BREAST DRILLS, PIPE STOCK AND DIE SETS, AXES, ELECTRIC SOLDERING IRONS, AND HATCHETS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed November 18, 1938. Serial No. 412,927. PUBLISHED MAY 23, 1939. Class 23.

369,615. WOMEN'S AND MISSES' SUITS, SLACKS, SHIRTS, SHORTS, SKIRTS, COATS, AND LEISURE-ALLS OR TOGS—NAMELY, PLAYSUITS, WITH OR WITHOUT SKIRTS, OVERALLS, BEACH, HOUSE, AND BUSH COATS. DONNELLY GARMENT SALES COMPANY, Kansas City, Mo.
Filed November 19, 1938. Serial No. 412,961. PUBLISHED MAY 9, 1939. Class 39.

369,616. HOSIERY. HERBERT GEORGE MYERS, doing business as My-Len Sales Company, Chicago, Ill.
Filed December 21, 1938. Serial No. 414,077. PUBLISHED MAY 9, 1939. Class 39.

369,617. PUBLICATION PUBLISHED FROM TIME TO TIME RELATING TO EXTERIOR AND INTERIOR PAINTING AND DECORATING. THE GLIDDEN COMPANY, Cleveland, Ohio.
Filed December 22, 1938. Serial No. 414,104. PUBLISHED MAY 16, 1939. Class 38.

369,618. CAMERAS. UNIVERSAL CAMERA CORPORATION, New York, N. Y.
Filed December 23, 1938. Serial No. 414,169. PUBLISHED MAY 23, 1939. Class 26.

369,619. PHOTOGRAPHIC LENSES. UNIVERSAL CAMERA CORPORATION, New York, N. Y.
Filed December 23, 1938. Serial No. 414,170. PUBLISHED MAY 23, 1939. Class 26.

369,620. CANDY. THE EUCLID CANDY CO. OF ILLINOIS, INC., Chicago, Ill.
Filed December 23, 1938. Serial No. 414,173. PUBLISHED MAY 23, 1939. Class 46.

369,621. LIQUID ADHESIVE PREPARATION USED PARTICULARLY IN APPLYING FLEXIBLE LAYERS OF CONSTRUCTION MATERIALS TO FLOORS, WALLS, TANKS, PIPES, ELECTRIC CABLES, AND THE LIKE. N. V. HOLLANDSCHE DRAAD- EN KABELFABRIEK, Amsterdam, Netherlands.
Filed December 29, 1938. Serial No. 414,306. PUBLISHED MAY 16, 1939. Class 5.

369,622. CUTICLE AND NAIL SCISSORS, CUTICLE AND NAIL NIPPERS, FINGERNAIL CLIPS, TWEEZERS, NAIL FILES, IMPLEMENTS FOR THE REMOVAL OF BLACKHEADS, CUTICLE KNIVES, DISSECTING SCISSORS, SURGICAL SCISSORS, BANDAGE SCISSORS, SCALPELS, CARTILAGE KNIVES, AND FORCEPS. A. HENKEL & SON, INC., Keene, N. H.
Filed December 30, 1938. Serial No. 414,350. PUBLISHED MAY 23, 1939. Class 44.

369,623. WATCH MOVEMENTS. ETA S. A. FABRIQUE D'EBAUCHES, Grenchen, Switzerland.
Filed January 3, 1939. Serial No. 414,438. PUBLISHED FEBRUARY 28, 1939. Class 27.

369,624. WATCH MOVEMENTS. FABRIQUE D'HORLOGERIE DE FONTAINEMELON, Fontainemelon, Switzerland.
Filed January 3, 1939. Serial No. 414,440. PUBLISHED FEBRUARY 28, 1939. Class 27.

369,625. SHEETS AND PILLOW CASES. LOVEMAN, JOSEPH & LOEB, Birmingham, Ala.
Filed January 3, 1939. Serial No. 414,454. PUBLISHED MAY 23, 1939. Class 42.

369,626. WATCH MOVEMENTS. A. SCHILD S. A., Grenchen, Switzerland.
Filed January 3, 1939. Serial No. 414,471. PUBLISHED APRIL 18, 1939. Class 27.

369,627. WATCH BRACELETS, WATCH STRAPS, NECK CHAINS, WATCH CHAINS, BRACELETS, SCARF PINS, FINGER RINGS, BELT BUCKLES, EAR ORNAMENTS, HAIR ORNAMENTS, AND CHAIN SNAPS, ALL OF THE FOREGOING ARTICLES MADE IN WHOLE OR IN PART OF PRECIOUS METAL OR PLATED WITH THE SAME. GEMEX COMPANY, Newark, N. J.
Filed January 4, 1939. Serial No. 414,492. PUBLISHED MAY 16, 1939. Class 28.

369,628. BAG FASTENERS. FA-CILE FASTENER CORPORATION, New York, N. Y.
Filed January 7, 1939. Serial No. 414,597. PUBLISHED MAY 23, 1939. Class 3.

369,629. CHEMICAL GRINDING AGENTS ADAPTED TO BE ADDED TO PIGMENTS FOR USE IN COATING AND FILM FORMING MATERIALS, SUCH AS PAINTS, ENAMELS, LACQUERS, AND PRINTING AND LITHOGRAPHING INKS. NUODEX PRODUCTS CO., INC., Elizabeth, N. J.
Filed January 7, 1939. Serial No. 414,603. PUBLISHED MAY 16, 1939. Class 6.

369,630. LADIES' AND MISSES' FROCKS AND DRESSES. Jos. S. COHEN & SONS CO., INC., New York, N. Y.
Filed January 12, 1939. Serial No. 414,726. PUBLISHED MAY 9, 1939. Class 39.

369,631. LADIES' DRESSES. INFANTICIPATING DRESS CO., New York, N. Y.
Filed January 12, 1939. Serial No. 414,738. PUBLISHED MAY 9, 1939. Class 39.

369,632. FRESH VEGETABLES. SANTA CRUZ ARTICHOKE & SPROUT GROWERS, Santa Cruz, Calif.
Filed January 14, 1939. Serial No. 414,836. PUBLISHED MAY 23, 1939. Class 46.

369,633. FRESH VEGETABLES. SANTA CRUZ ARTICHOKE & SPROUT GROWERS, Santa Cruz, Calif.
Filed January 14, 1939. Serial No. 414,837. PUBLISHED MAY 23, 1939. Class 46.

369,634. FACSIMILE APPARATUS TO BE USED WITH RADIO RECEIVING APPARATUS—I. E., APPARATUS INVOLVING SCANNING MEANS FOR RECORDING UPON A MOVING WEB OF PAPER OR THE LIKE INTELLIGENCE RECEIVED BY RADIO, AND FACSIMILE APPARATUS IN COMBINATION WITH RADIO RECEIVING APPARATUS, AND PARTS AND SUPPLIES THEREFOR. THE CROSLEY CORPORATION, Cincinnati, Ohio.
Filed January 19, 1939. Serial No. 414,984. PUBLISHED MAY 23, 1939. Class 21.

369,635. PREPARATIONS USED SPECIFICALLY FOR ACNE, SUNBURN, CUTS, BURNS, ECZEMA, ATHLETE'S FOOT, PSORIASIS, SHINGLES, POISON IVY, FOR THE TOILET, AND FOR USE AFTER SHAVING, AND AS A DEODORANT POWDER. KATHERENE T. JONES, Baltimore, Md.
Filed January 19, 1939. Serial No. 415,003. PUBLISHED MAY 23, 1939. Class 6.

369,636. NASAL EMOLLIENTS AND NASAL DOUCHES. THE HYNE COMPANY, doing business as Peranol Products, Chicago, Ill.
Filed January 20, 1939. Serial No. 415,040. PUBLISHED MAY 23, 1939. Class 6.

369,637. SCOTCH WHISKY. THE DISTILLERS AGENCY LIMITED, Edinburgh, Scotland.
Filed January 21, 1939. Serial No. 415,076. PUBLISHED MAY 23, 1939. Class 49.

369,638. VALVE AND DAMPER POSITION GAUGES, INDICATORS, AND MEASURING DEVICES. TEFFT-JACKSON, INCORPORATED, Providence, R. I.
Filed January 21, 1939. Serial No. 415,091. PUBLISHED MAY 23, 1939. Class 26.

369,639. SECTION OF A PERIODICAL PUBLICATION. MOCK, JUDSON, VOEHRINGER CO. OF NEW YORK, INC., Long Island City, N. Y.
Filed January 23, 1939. Serial No. 415,135. PUBLISHED MAY 16, 1939. Class 38.

369,640. ELECTRICAL INSECT EXTERMINATING SCREENS AND TRAPS. NATIONAL ELECTRIC SCREEN CORP., Chicago, Ill.
Filed January 30, 1939. Serial No. 415,412. PUBLISHED MAY 16, 1939. Class 21.

369,641. MEDICATED ADHESIVE PLASTERS. THE KENDALL COMPANY, Walpole, Mass.
Filed January 31, 1939. Serial No. 415,457. PUBLISHED MAY 16, 1939. Class 6.

369,642. DAILY NEWSPAPER FEATURES. DEAN B. HIATT, Fort Worth, Tex.
Filed February 1, 1939. Serial No. 415,477. PUBLISHED MAY 16, 1939. Class 38.

369,643. SPORTS WEAR FOR WOMEN—NAMELY, OUTER SHORTS, SLACKS, AND PLAYSUITS. MORRIS SOBELMAN, doing business as Perfect Garment Company, Baltimore, Md.
Filed February 2, 1939. Serial No. 415,535. PUBLISHED MAY 9, 1939. Class 39.

369,644. CENTRIFUGAL DUST SEPARATORS OF THE BLOWER TYPE. AMERICAN AIR FILTER COMPANY, INC., Louisville, Ky.
Filed February 6, 1939. Serial No. 415,620. PUBLISHED MAY 23, 1939. Class 34.

369,645. LINIMENT FOR RHEUMATISM, SPRAINS, BRUISES, LAMENESS, CONGESTION IN COLDS, AND THE LIKE. LOUIS S. BELLEAU, doing business as Belleau Drug Store, Green Bay, Wis.
Filed February 6, 1939. Serial No. 415,628. PUBLISHED MAY 23, 1939. Class 6.

369,646. PHOTOGRAPHIC CAMERAS. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany.
Filed February 7, 1939. Serial No. 415,709. PUBLISHED MAY 23, 1939. Class 26.

369,647. WOMEN'S, MISSES', AND GIRLS' COATS AND SUITS, SKIRTS, DRESSES, BLOUSES, AND RIDING HABITS AND GOLF SUITS. JOE & TED FUNK, New York, N. Y.
Filed February 8, 1939. Serial No. 415,771. PUBLISHED MAY 16, 1939. Class 39.

369,648. X-RAY GENERATORS USED FOR DIAGNOSTIC AND THERAPEUTIC PURPOSES. PEERLESS LABORATORIES, INC., New York, N. Y.
Filed February 8, 1939. Serial No. 415,792. PUBLISHED MAY 23, 1939. Class 44.

369,649. DOUGHNUTS. SMITH'S MELO CREAM DONUTS, York, Pa.
Filed February 8, 1939. Serial No. 415,800. PUBLISHED MAY 23, 1939. Class 46.

369,650. POCKETKNIVES AND TABLE KNIVES, ALL OF BASE METAL. UTICA CUTLERY COMPANY, Utica, N. Y.
Filed February 8, 1939. Serial No. 415,809. PUBLISHED MAY 23, 1939. Class 23.

369,651. LINIMENT FOR RUBBING ON THE SKIN FOR RHEUMATISM, SPRAINS, MUSCULAR PAINS, NEURITIS, LUMBAGO, AND NEURALGIA. HAROLD C. HUDDLESTON, Pittsfield, Mass.
Filed February 9, 1939. Serial No. 415,843. PUBLISHED MAY 16, 1939. Class 6.

369,652. GUM MASSAGING PREPARATION. W. W. MACGRUDER, Denver, Colo.
Filed February 9, 1939. Serial No. 415,847. PUBLISHED MAY 23, 1939. Class 6.

369,653. ANTIDIABETIC CAPSULES. SEBASTIAN SARACCO, doing business as Sebastian Saracco's Anti-Diabetic Capsules, Paterson, N. J.
Filed February 9, 1939. Serial No. 415,863. PUBLISHED MAY 23, 1939. Class 6.

369,654. DENTAL MATERIALS—NAMELY, SYNTHETIC RESINS, RUBBER, WAXES, CEMENT, PORCELAIN-CEMENT, ARTIFICIAL TEETH, COMPLETE AND PARTIAL ARTIFICIAL DENTURES, DENTAL INSTRUMENTS AND APPARATUS FOR PROSTHETIC WORK IN THE LABORATORY OF THE DENTAL MECHANIC. DE TREY FRÈRES SOCIÉTÉ ANONYME, Zurich, Switzerland.
Filed February 7, 1939. Serial No. 415,868. PUBLISHED MAY 23, 1939. Class 44.

369,655. COFFEE. ALBERT EHLERS, INC., Brooklyn, N. Y.
Filed February 10, 1939. Serial No. 415,887. PUBLISHED MAY 23, 1939. Class 46.

369,656. KITCHEN FOOD MIXERS. C. J. SIMPSON, Oakland, Calif.
Filed February 9, 1939. Serial No. 415,928. PUBLISHED MAY 23, 1939. Class 23.

369,657. BEVERAGE STIRRER OF THERMOPLASTIC SYNTHETIC RESIN MATERIAL. MAUD HARTMAN, doing business as King Cole Muddler, New York, N. Y.
Filed February 11, 1939. Serial No. 415,949. PUBLISHED MAY 23, 1939. Class 23.

369,658. FRESH PEACHES, FRESH PIMIENTOS, AND FRESH TURNIP GREENS. BANKSTON-EDWARDS CANNING COMPANY, Zebulon, Ga.
Filed February 13, 1939. Serial No. 415,973. PUBLISHED MAY 23, 1939. Class 46.

369,659. TOILET WATER, SACHET, BATH POWDER, WATER SOFTENER, COMPRESSED SACHET, POTPOURRI, PERFUME, TALCUM POWDER, AND A SACHET COMPACT. UNITED TOILET GOODS CORP., New York, N. Y.
Filed February 13, 1939. Serial No. 416,003. PUBLISHED MAY 23, 1939. Class 6.

369,660. OUTER SHIRTS AND WORK SHIRTS. SEABOARD MANUFACTURING COMPANY, INCORPORATED, Baltimore, Md.
Filed February 15, 1939. Serial No. 416,086. PUBLISHED MAY 23, 1939. Class 39.

369,661. SPORT SHIRTS, SLACKS, AND TROUSERS FOR MEN AND BOYS. BALTIMORE TROUSER COMPANY, INC., Baltimore, Md.
Filed February 16, 1939. Serial No. 416,090. PUBLISHED MAY 9, 1939. Class 39.

369,662. CARBON PRODUCTS USED FOR CONSTRUCTION PURPOSES—NAMELY, CARBON BRICKS AND RASCHIG RINGS. NATIONAL CARBON COMPANY, INC., New York, N. Y.
Filed February 16, 1939. Serial No. 416,108. PUBLISHED MAY 16, 1939. Class 12.

369,663. NIGHTGOWNS, SLIPS, PAJAMAS, BED JACKETS, STEP-INS, CHEMISES, AND BLOOMERS. SOL L. ROSENBLATT & CO., INC., New York, N. Y.
Filed February 17, 1939. Serial No. 416,160. PUBLISHED MAY 9, 1939. Class 39.

369,664. [WITHDRAWN.]

369,665. BOYS' COATS. LITTLE TOMMY TUCKER COATS, INC., New York, N. Y.
Filed February 18, 1939. Serial No. 416,195. PUBLISHED MAY 23, 1939. Class 39.

369,666. ROLLER BEARINGS. ROLLER BEARING COMPANY OF AMERICA, Trenton, N. J.
Filed February 18, 1939. Serial No. 416,206. PUBLISHED MAY 23, 1939. Class 23.

369,667. FLUORESCENT TUBING, BEING ELECTRIC LAMPS OF TUBULAR FORM. ST. CHARLES TECHNICAL LABORATORIES, INC., St. Charles, Ill.
Filed February 18, 1939. Serial No. 416,209. PUBLISHED MAY 23, 1939. Class 21.

369,668. VEHICLE WHEELS, AND RIMS FOR VEHICLE WHEELS. THE TIRE AND RIM ASSOCIATION, INC., Cleveland, Ohio.
Filed February 18, 1939. Serial No. 416,213. PUBLISHED MAY 23, 1939. Class 19.

369,669. COMPOUND FOR SOFTENING TEXTILE FABRICS AND LEATHER. WARWICK CHEMICAL COMPANY, West Warwick, R. I.
Filed February 21, 1939. Serial No. 416,301. PUBLISHED MAY 16, 1939. Class 6.

369,670. PIANO PLATES. AMERICAN PIANO PLATE COMPANY, Racine, Wis.
Filed February 23, 1939. Serial No. 416,305. PUBLISHED MAY 23, 1939. Class 36.

369,671. MEDICINAL VITAMIN PREPARATION. AYERST, MCKENNA & HARRISON (UNITED STATES), LIMITED, Rouses Point, N. Y.
Filed February 23, 1939. Serial No. 416,306. PUBLISHED MAY 23, 1939. Class 6.

369,672. DESSERT PREPARATIONS—NAMELY, RENNET TABLETS. CAPITOL FOODS, INC., Madison, Wis.
Filed February 23, 1939. Serial No. 416,311. PUBLISHED MAY 23, 1939. Class 46.

369,673. OIL FIELD EQUIPMENT—NAMELY, BAILERS, BREAK-OUT BLOCKS, BLOW-OUT PREVENTERS, CORE BARRELS, ETC. AMERICAN IRON & MACHINE WORKS COMPANY, Oklahoma City, Okla.
Filed February 24, 1939. Serial No. 416,359. PUBLISHED MAY 23, 1939. Class 23.

369,674. KNITTED SWEATERS. IRWILL KNITWEAR CORP., New York, N. Y.
Filed February 25, 1939. Serial No. 416,422. PUBLISHED MAY 16, 1939. Class 39.

369,675. PIPE ORGANS. WICKS ORGAN COMPANY, Highland, Ill.
Filed February 27, 1939. Serial No. 416,494. PUBLISHED APRIL 25, 1939. Class 36.

369,676. HOSIERY, MADE OF PURE CHINA SILK. AMERICAN SALES DEVELOPMENT CO., INC., New York, N. Y.
Filed March 1, 1939. Serial No. 416,533. PUBLISHED MAY 23, 1939. Class 39.

369,677. REGISTERS AND GRILLES, FOR VENTILATING, HEATING, COOLING, AIR CONDITIONING SYSTEMS, AND THE LIKE. THE AUER REGISTER COMPANY, Cleveland, Ohio.
Filed March 1, 1939. Serial No. 416,534. PUBLISHED MAY 23, 1939. Class 34.

369,678. REGISTERS AND GRILLES, FOR VENTILATING, HEATING, COOLING, AIR CONDITIONING SYSTEMS, AND THE LIKE. THE AUER REGISTER COMPANY, Cleveland, Ohio.
Filed March 1, 1939. Serial No. 416,535. PUBLISHED MAY 23, 1939. Class 34.

369,679. REGISTERS AND GRILLES, FOR VENTILATING, HEATING, COOLING, AIR CONDITIONING SYSTEMS, AND THE LIKE. THE AUER REGISTER COMPANY, Cleveland, Ohio.
Filed March 1, 1939. Serial No. 416,536. PUBLISHED MAY 23, 1939. Class 34.

369,680. CLEANSER IN POWDERED FORM HAVING INCIDENTAL WATER-SOFTENING PROPERTIES, FOR CLEANING RECEPTACLES AND CONTAINERS. THE DIVERSEY CORPORATION, Chicago, Ill.
Filed March 1, 1939. Serial No. 416,549. PUBLISHED MAY 23, 1939. Class 4.

369,681. TRUNKS, TRAVELING BAGS, DRESSING CASES, SUIT CASES, BRIEF CASES, SAMPLE BAGS, PORTFOLIOS, WALLETS, SATCHELS, POCKETBOOKS, AND HORSE AND DOG COLLARS AND HARNESS. HERMES, S. A., Paris, France.
Filed March 1, 1939. Serial No. 416,560. PUBLISHED MAY 23, 1939. Class 3.

369,682. ROAST RACKS. JOSEPHINE A. LYNCH, doing business as The Lynch Studio, Los Angeles, Calif.
Filed March 1, 1939. Serial No. 416,571. PUBLISHED MAY 23, 1939. Class 13.

369,683. MINIATURE BOXING GLOVES INTENDED FOR USE AS A TALISMAN, CHARM, OR TROPHY. NATIONAL SALES COMPANY, Cleveland, Ohio.
Filed March 1, 1939. Serial No. 416,578. PUBLISHED MAY 23, 1939. Class 50.

369,684. AUTOMOBILE CLUTCH PLATES. CHEFFORD MASTER MANUFACTURING CO. INC., Fairfield, Ill.
Filed March 2, 1939. Serial No. 416,599. PUBLISHED MAY 23, 1939. Class 23.

369,685. CANNED VEGETABLES. MORRIS STARKSTEIN, doing business as General Tobacco and Grocery Company, Detroit, Mich.
Filed March 3, 1939. Serial No. 416,660. PUBLISHED MAY 23, 1939. Class 46.

369,686. SOAPS—NAMELY, TOILET SOAP, MEDICATED SOAP, LIQUID SOAP, AND SOAP CHIPS. SUPREME OLIVE OIL CORPORATION, San Fernando, Calif.
Filed March 3, 1939. Serial No. 416,661. PUBLISHED MAY 23, 1939. Class 4.

369,687. CHOCOLATE COATED CANDIES. C. E. VOOGT CANDY CO., Chicago, Ill.
Filed March 3, 1939. Serial No. 416,665. PUBLISHED MAY 23, 1939. Class 46.

369,688. SYNDICATED NEWSPAPER FEATURES. RAYMOND PITCAIRN, doing business as Sentinel Features, Philadelphia, Pa.
Filed March 4, 1939. Serial No. 416,699. PUBLISHED MAY 16, 1939. Class 38.

369,689. LADIES' DRESSES. BEN RUBIN, INC., New York, N. Y.
Filed March 4, 1939. Serial No. 416,701. PUBLISHED MAY 9, 1939. Class 39.

369,690. FLUX FOR METALLURGICAL OPERATIONS. THE STANDARD LIME AND STONE COMPANY, Baltimore, Md.
Filed March 4, 1939. Serial No. 416,708. PUBLISHED MAY 23, 1939. Class 6.

369,691. LIBRARY BOOKS, TEXT BOOKS. THE CAXTON PRINTERS, LTD., Caldwell, Idaho.
Filed March 6, 1939. Serial No. 416,720. PUBLISHED MAY 16, 1939. Class 38.

369,692. CHEMICAL USED IN PHOTOGRAPHIC DEVELOPING SOLUTIONS. THE HALOID COMPANY, Rochester, N. Y.
Filed March 6, 1939. Serial No. 416,727. PUBLISHED MAY 16, 1939. Class 6.

369,693. HOSIERY. RUNNYMEDE MILLS, INC., Tarboro, N. C.
Filed March 6, 1939. Serial No. 416,748. PUBLISHED MAY 9, 1939. Class 39.

369,694. SUPPLEMENTARY LUBRICATING OILS. NATIONAL GRAPHITE CO. INC., New York, N. Y.
Filed March 7, 1939. Serial No. 416,771. PUBLISHED MAY 16, 1939. Class 15.

369,695. PREPARATION HAVING AN ACTION ON THE CIRCULATION OF THE BLOOD. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland.
Filed March 7, 1939. Serial No. 416,780. PUBLISHED MAY 16, 1939. Class 6.

369,696. UNDERWEAR FOR MEN, WOMEN, AND CHILDREN. VANITY FAIR SILK MILLS, Reading, Pa.
Filed March 7, 1939. Serial No. 416,781. PUBLISHED MAY 23, 1939. Class 39.

369,697. BUILDING HEATING FURNACES, AND PARTS THEREOF. THE AIREOZONE CORPORATION, Chicago, Ill.
Filed March 8, 1939. Serial No. 416,790. PUBLISHED MAY 23, 1939. Class 34.

369,698. ADSORPTIVE AND DECOLORIZING CARBON. DARCO CORPORATION, Wilmington, Del.
Filed March 9, 1939. Serial No. 416,788. PUBLISHED MAY 16, 1939. Class 6.

369,699. SPECIALLY PREPARED INSECTICIDE AND FOR AN INERT CARRIER AND DILUENT FOR INSECTICIDES AND FUNGICIDES. W. H. LOOMIS TALC CORPORATION, Gouverneur, N. Y.
Filed March 8, 1939. Serial No. 416,806. PUBLISHED MAY 16, 1939. Class 6.

369,700. ANTISEPTIC CREAM, ANTISEPTIC SHAMPOO, AND ANTISEPTIC OINTMENTS. HALLSTAR PRODUCTS, INC., Scarsdale, N. Y.
Filed March 9, 1939. Serial No. 416,850. PUBLISHED MAY 16, 1939. Class 6.

369,701. SEDATIVE AND SOPORIFIC PREPARATION. MERCK & CO. INC., Rahway, N. J.
Filed March 9, 1939. Serial No. 416,861. PUBLISHED MAY 16, 1939. Class 6.

369,702. FROZEN CONFECTION. PAPPY'S ICE CREAM BISCUIT CO., College Station, Tex.
Filed March 9, 1939. Serial No. 416,867. PUBLISHED MAY 23, 1939. Class 46.

369,703. CANNED VEGETABLES. THE PICKAWAY CANNING COMPANY, Circleville, Ohio.
Filed March 9, 1939. Serial No. 416,869. PUBLISHED MAY 23, 1939. Class 46.

369,704. HOSIERY. SHANNON HOSIERY MILLS, INC., Columbus, Ga.
Filed March 9, 1939. Serial No. 416,875. PUBLISHED MAY 9, 1939. Class 39.

369,705. WOOLEN, SILK, COTTON, AND RAYON PIECE GOODS AND COMBINATIONS THEREOF. ELSIE SUNDERLAND, Los Angeles, Calif.
Filed March 9, 1939. Serial No. 416,878. PUBLISHED MAY 23, 1939. Class 42.

369,706. COOKING APPARATUS—NAMELY, RANGES HEATED BY GAS OR ELECTRICITY. THE TAPPAN STOVE COMPANY, Mansfield, Ohio.
Filed March 9, 1939. Serial No. 416,879. PUBLISHED MAY 23, 1939. Class 34.

369,707. PERIODICAL. THOMAS PUBLISHING COMPANY, New York, N. Y.
Filed March 9, 1939. Serial No. 416,880. PUBLISHED MAY 16, 1939. Class 38.

369,708. SOOTHING OINTMENT FOR CUTS, BURNS, BITES OF INSECTS AND PROMOTES HEALING OF MANY TYPES OF MINOR SKIN IRRITATIONS AND SUPERFICIAL ABRASIONS. ARTHUR W. BEAL, Glen Rock, N. J.
Filed March 10, 1939. Serial No. 416,930. PUBLISHED MAY 23, 1939. Class 6.

369,709. FIRE EXTINGUISHING COMPOUND. EFFERVESCENT PRODUCTS, LTD., Chicago, Ill.
Filed March 11, 1939. Serial No. 416,952. PUBLISHED MAY 16, 1939. Class 6.

369,710. LADIES' AND MISSES' SWEATERS. JOSEPH GUTTMAN & BROS., INC., New York, N. Y.
Filed March 11, 1939. Serial No. 416,954. PUBLISHED MAY 16, 1939. Class 39.

369,711. FRESH CITRUS, DECIDUOUS FRUITS AND VEGETABLES. THE WILLIAM F. KENNY COMPANY, New York, N. Y.
Filed March 11, 1939. Serial No. 416,958. PUBLISHED MAY 23, 1939. Class 46.

369,712. PREPARATION FOR THE TREATMENT OF AFFECTIONS OF THE NERVOUS SYSTEM. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed March 11, 1939. Serial No. 416,970. PUBLISHED MAY 16, 1939. Class 6.

369,713. MAYONNAISE, RUSSIAN DRESSING, SANDWICH SPREAD, TARTAR SAUCE. BIRDSALL & WILCOX, New Haven, Conn.
Filed March 13, 1939. Serial No. 416,993. PUBLISHED MAY 23, 1939. Class 46.

369,714. HYPNOTICS AND SEDATIVES. WILLIAM FELS, doing business as Century Drug Company, New York, N. Y.
Filed March 13, 1939. Serial No. 417,005. PUBLISHED MAY 16, 1939. Class 6.

369,715. SERIES OF CARTOONS. DUDLEY T. FISHER, JR., doing business as Dudley Fisher, Columbus, Ohio.
Filed March 13, 1939. Serial No. 417,008. PUBLISHED MAY 16, 1939. Class 38.

369,716. LIQUID PREPARATION FOR THE TREATMENT OF THE HAIR FOR REMOVING DANDRUFF AND STIMULATING THE GROWTH OF THE HAIR. GUST MANTOS, San Francisco, Calif.
Filed March 13, 1939. Serial No. 417,026. PUBLISHED MAY 16, 1939. Class 6.

369,717. LAXATIVE. PLANT & BARNES, also doing business as American Drugs Produce Co., Oakland, Calif.
Filed March 13, 1939. Serial No. 417,029. PUBLISHED MAY 16, 1939. Class 6.

369,718. WOVEN INSULATING BLANKETS OF GLASS WOOL FIBERS, UTILIZED FOR INSULATING STEAM TURBINES AND THE LIKE. UNION ASBESTOS & RUBBER COMPANY, Cicero, Ill.
Filed March 13, 1939. Serial No. 417,038. PUBLISHED MAY 16, 1939. Class 12.

369,719. RIGID INSULATING BLOCKS AND HALF TUBULAR MEMBERS, COMPRISING AMPHIBOLE FIBERS AND A SUITABLE BINDER, UTILIZED FOR INSULATING CURVED AND FLAT SURFACES. UNION ASBESTOS & RUBBER COMPANY, Cicero, Ill.
Filed March 13, 1939. Serial No. 417,039. PUBLISHED MAY 16, 1939. Class 12.

369,720. RIGID INSULATING MATERIAL, COMPRISING HALF TUBULAR MEMBERS AND FLAT BLOCKS OF HIGH TEMPERATURE RESISTING FIBERS AND SUITABLE BINDER, FOR INSULATING CURVED AND FLAT SURFACES. UNION ASBESTOS & RUBBER COMPANY, Cicero, Ill.
Filed March 13, 1939. Serial No. 417,040. PUBLISHED MAY 16, 1939. Class 12.

369,721. LADIES' AND CHILDREN'S UNDERWEAR CONSISTING OF BLOOMERS, PANTIES, VESTS, SLIPS, AND COMBINATIONS OF VEST AND BLOOMERS, AND CHILDREN'S PAJAMAS AND NIGHTGOWNS. BELLE KNITTING CORP., New York, N. Y.
Filed March 15, 1939. Serial No. 417,076. PUBLISHED MAY 16, 1939. Class 39.

369,722. LADIES' AND CHILDREN'S UNDERWEAR. BELLE KNITTING CORP., New York, N. Y.
Filed March 15, 1939. Serial No. 417,077. PUBLISHED MAY 9, 1939. Class 39.

369,723. WINDOW SHADE CLOTH IN THE PIECE. THE COLUMBIA MILLS, INC., New York, N. Y.
Filed March 15, 1939. Serial No. 417,081. PUBLISHED MAY 9, 1939. Class 42.

369,724. WHEAT FLOUR. COLORADO MILLING & ELEVATOR CO., doing business as Farmers Flour Mills, Denver and Berthoud, Colo.
Filed March 15, 1939. Serial No. 417,083. PUBLISHED MAY 23, 1939. Class 46.

369,725. FRESH FROZEN FRUITS, BERRIES, AND VEGETABLES. FROSTKRAFT PACKING CORPORATION, San Francisco, Calif.
Filed March 15, 1939. Serial No. 417,087. PUBLISHED MAY 23, 1939. Class 46.

369,726. PEANUTS SALTED IN THE SHELL. SALTED IN THE SHELL, INC., New York, N. Y.
Filed March 15, 1939. Serial No. 417,101. PUBLISHED MAY 23, 1939. Class 46.

369,727. PREPARATION USED FOR INDIGESTION AND AS AN ANTI-ACID. JESTS, INC., New York, N. Y.
Filed March 16, 1939. Serial No. 417,126. PUBLISHED MAY 23, 1939. Class 6.

369,728. PREPARATION USED FOR INDIGESTION AND AS AN ANTI-ACID. JESTS, INC., New York, N. Y.
Filed March 16, 1939. Serial No. 417,127. PUBLISHED MAY 23, 1939. Class 6.

369,729. PREPARATION USED FOR INDIGESTION AND AS ANTI-ACID. JESTS, INC., New York, N. Y.
Filed March 16, 1939. Serial No. 417,128. PUBLISHED MAY 23, 1939. Class 6.

369,730. MEDICINAL HORMONE PREPARATION IN OINTMENT FORM. SCHERING CORPORATION, Bloomfield, N. J.
Filed March 16, 1939. Serial No. 417,142. PUBLISHED MAY 16, 1939. Class 6.

369,731. MARBLE PROVIDED WITH A WATERPROOF FINISH. VERMONT MARBLE COMPANY, Proctor, Vt.
Filed March 16, 1939. Serial No. 417,151. PUBLISHED MAY 23, 1939. Class 1.

369,732. BEER. ARIZONA BREWING COMPANY, Phoenix, Ariz.
Filed March 17, 1939. Serial No. 417,157. PUBLISHED MAY 23, 1939. Class 48.

369,733. WRAPPERS. THE DORECKMUN COMPANY, Cleveland, Ohio.
Filed March 17, 1939. Serial No. 417,165. PUBLISHED MAY 23, 1939. Class 37.

369,734. WOMEN'S DRESSES AND SUITS. MAX LEVINE & COMPANY, New York, N. Y.
Filed March 17, 1939. Serial No. 417,175. PUBLISHED MAY 16, 1939. Class 39.

369,735. PAPER BOX LACES, PAPER DOILIES, PAPER NAPKINS, PAPER DENTAL PINAFORES, SHELF PAPER, SHELF AND LINING PAPER, PAPER FILLED SKEWERS, PAPER TRAY COVERS, AND PAPER TUMBLER COVERS. AMERICAN LACE PAPER COMPANY, Milwaukee, Wis.
Filed March 18, 1939. Serial No. 417,197. PUBLISHED MAY 23, 1939. Class 37.

369,736. LIPSTICK, ROUGE, AND NAIL POLISH. ELIZABETH ARDEN, INC., New York, N. Y.
Filed March 18, 1939. Serial No. 417,199. PUBLISHED MAY 23, 1939. Class 6.

369,737. COSMETICS—NAMELY, LIPSTICK, ROUGE, FACE CREAM, FACE POWDER, NAIL POLISH, AND MASCARA. STEPHEN R. DICKMAN, New York, N. Y.
Filed March 18, 1939. Serial No. 417,205. PUBLISHED MAY 23, 1939. Class 6.

369,738. MOLASSES. THE FUJI TRADING CO., Chicago, Ill.
Filed March 18, 1939. Serial No. 417,211. PUBLISHED MAY 23, 1939. Class 46.

369,739. MEN'S AND WOMEN'S HOSIERY. HUFFMAN FULL FASHIONED MILLS, INC., Morganton, N. C.
Filed March 18, 1939. Serial No. 417,221. PUBLISHED MAY 16, 1939. Class 39.

369,740. HOSIERY. JULIUS KAYSER & CO., New York, N. Y.
Filed March 18, 1939. Serial No. 417,222. PUBLISHED MAY 16, 1939. Class 39.

369,741. MEDICATED SCALP POMADE. WESLEY A. RICHARDS, Detroit, Mich.
Filed March 18, 1939. Serial No. 417,235. PUBLISHED MAY 23, 1939. Class 6.

369,742. WOMEN'S, MISSES', AND CHILDREN'S BOLEROS, JACKETS, VESTS, AND BLOUSES. MORRIS WARTSKY, New York, N. Y.
Filed March 18, 1939. Serial No. 417,243. PUBLISHED MAY 23, 1939. Class 39.

369,743. WOMEN'S AND MISSES' COATS AND SUITS. LOU TISHMAN CO. INC., New York, N. Y.
Filed March 18, 1939. Serial No. 417,240. PUBLISHED MAY 16, 1939. Class 39.

369,744. HANDBAGS. MORRIS WHITE MFG. CO., INC., New York, N. Y.
Filed March 18, 1939. Serial No. 417,245. PUBLISHED MAY 23, 1939. Class 3.

369,745. DESKS OR TABLES. ROBERT J. BRANDT, Los Angeles, Calif.
Filed March 20, 1939. Serial No. 417,255. PUBLISHED MAY 23, 1939. Class 32.

369,746. CHEMICALS AND MIXTURES OF CHEMICALS FOR USE IN PHOTOGRAPHIC DEVELOPING PROCESSES, PARTICULARLY MIXTURES OF CHEMICALS FOR IMPARTING MODIFIED TONES TO PHOTOGRAPHIC PRINTS. THE EDWAL LABORATORIES, INC., Chicago, Ill.
Filed March 20, 1939. Serial No. 417,271. PUBLISHED MAY 23, 1939. Class 6.

369,747. MEN'S SUITS AND OVERCOATS. KELLER, HEUMANN & THOMPSON COMPANY, INC., Rochester, N. Y.
Filed March 20, 1939. Serial No. 417,283. PUBLISHED MAY 23, 1939. Class 39.

369,748. GUMMED FABRIC AND GUMMED FABRIC TAPE. MCLAURIN-JONES CO., Brookfield, Mass.
Filed March 20, 1939. Serial No. 417,291. PUBLISHED MAY 23, 1939. Class 5.

369,749. ANTISEPTIC MOUTHWASH. FRANK NAU (INC.), Portland, Oreg.
Filed March 20, 1939. Serial No. 417,296. PUBLISHED MAY 23, 1939. Class 6.

369,750. ANALGESIC. H. B. TALIAFERRO, doing business as The Iosaline Company, Washington, D. C.
Filed March 20, 1939. Serial No. 417,310. PUBLISHED MAY 23, 1939. Class 6.

369,751. LEATHER HORSE BOOTS HAVING AN INNER LAYER OF PROTECTIVE FELT. NICHOLAS H. WAGNER, JR., Media, Pa.
Filed March 20, 1939. Serial No. 417,316. PUBLISHED MAY 23, 1939. Class 3.

369,752. BICARBONATE OF SODA, SALERATUS, AND BAKING-SODA. CHURCH & DWIGHT CO. INC., New York, N. Y.
Filed March 21, 1939. Serial No. 417,324. PUBLISHED MAY 23, 1939. Class 6.

369,753. BAKING SODA FOR USE AS AN INGREDIENT IN THE PREPARATION OF FOODS. CHURCH & DWIGHT CO. INC., New York, N. Y.
Filed March 21, 1939. Serial No. 417,325. PUBLISHED MAY 23, 1939. Class 46.

369,754. BAKING SODA FOR USE AS AN INGREDIENT IN THE PREPARATION OF FOODS. CHURCH & DWIGHT CO. INC., New York, N. Y.
Filed March 21, 1939. Serial No. 417,326. PUBLISHED MAY 23, 1939. Class 46.

369,755. FRESH FRUITS—NAMELY, FRESH GRAPES. H. FRANKENTHAL, doing business as Frankenthal Company, Weslaco, Tex., and Sanger, Calif.
Filed March 21, 1939. Serial No. 417,334. PUBLISHED MAY 23, 1939. Class 46.

369,756. INSECTICIDAL PREPARATIONS. SHELL OIL COMPANY, San Francisco, Calif.
Filed March 21, 1939. Serial No. 417,348. PUBLISHED MAY 23, 1939. Class 6.

369,757. INSECTICIDAL PREPARATIONS. SHELL OIL COMPANY, San Francisco, Calif.
Filed March 21, 1939. Serial No. 417,349. PUBLISHED MAY 23, 1939. Class 6.

369,758. INSECTICIDAL PREPARATIONS. SHELL OIL COMPANY, San Francisco, Calif.
Filed March 21, 1939. Serial No. 417,350. PUBLISHED MAY 23, 1939. Class 6.

369,759. DYES AND DYESTUFFS. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del.
Filed March 22, 1939. Serial No. 417,362. PUBLISHED MAY 23, 1939. Class 6.

369,760. LADIES' DRESSES. HARRY GOODMAN, New York, N. Y.
Filed March 22, 1939. Serial No. 417,364. PUBLISHED MAY 23, 1939. Class 39.

369,761. NEWSPAPER SECTION OR COLUMN AND FOR HEADING OF A SERIES OF RECURRENT CARTOONS PUBLISHED FROM TIME TO TIME. CONSTANCE HARRIS, Providence, R. I.
Filed March 22, 1939. Serial No. 417,365. PUBLISHED MAY 16, 1939. Class 38.

369,762. FLY-CATCHERS AND FLY-RIBBONS. NAAMLOOZE VENNOOTSCHAP MAATSCHAPPIJ VOOR WASVERWERKING, Amersfoort, Netherlands.
Filed March 23, 1939. Serial No. 417,408. PUBLISHED MAY 23, 1939. Class 50.

369,763. DOG FOOD. NESTRA PACKING COMPANY, Berkley, Mich.
Filed March 23, 1939. Serial No. 417,409. PUBLISHED MAY 23, 1939. Class 46.

369,764. WINE. H. SICHEL & SONS, LIMITED, London, England.
Filed March 23, 1939. Serial No. 417,418. PUBLISHED MAY 23, 1939. Class 47.

369,765. SHEET MUSIC AND BOOKS OF MUSIC. JERRY VOGEL MUSIC CO., INC., New York, N. Y.
Filed March 23, 1939. Serial No. 417,421. PUBLISHED MAY 16, 1939. Class 38.

369,766. THREAD. THE AMERICAN THREAD COMPANY, New York, N. Y.
Filed March 24, 1939. Serial No. 417,430. PUBLISHED MAY 23, 1939. Class 43.

369,767. THREAD. THE AMERICAN THREAD COMPANY, New York, N. Y.
Filed March 24, 1939. Serial No. 417,431. PUBLISHED MAY 23, 1939. Class 43.

369,768. YARNS. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed March 24, 1939. Serial No. 417,440. PUBLISHED MAY 23, 1939. Class 43.

369,769. MEN'S AND WOMEN'S HOSIERY. CELANESE CORPORATION OF AMERICA, New York, N. Y.
Filed March 24, 1939. Serial No. 417,441. PUBLISHED MAY 23, 1939. Class 39.

369,770. METAL BELLS FOR MUSICAL INSTRUMENTS. C. G. CONN LTD., Elkhart, Ind.
Filed March 24, 1939. Serial No. 417,444. PUBLISHED MAY 23, 1939. Class 36.

369,771. METAL KEYS FOR MUSICAL INSTRUMENTS, INCLUDING CLARINETS, SAXOPHONES, FLUTES, PICCOLOS, OBOES, BASSOONS, SARRUSOPHONES, AND ENGLISH HORNS. C. G. CONN LTD., Elkhart, Ind.
Filed March 24, 1939. Serial No. 417,445. PUBLISHED MAY 23, 1939. Class 36.

369,772. COTTON PIECE GOODS—TO WIT, CORDUROY. HOCKMEYER BROS., INC., New York, N. Y.
Filed March 24, 1939. Serial No. 417,459. PUBLISHED MAY 23, 1939. Class 42.

369,773. EASELS FOR HOLDING PHOTOGRAPHIC PAPER, PHOTOGRAPHIC PRINTING BOXES, PHOTOGRAPHIC ENLARGERS, ETC. CHARLES KALISH, doing business as Kalko Photo Products, Brooklyn, N. Y.
Filed March 24, 1939. Serial No. 417,461. PUBLISHED MAY 23, 1939. Class 26.

369,774. ALKALINE SILICATE BISMUTH POWDER, A PREPARATION FOR INTERNAL USE FOR NEUTRALIZING EXCESS GASTRIC ACIDITY. NEWMAN PHARMACAL COMPANY, Louisville, Ky.
Filed March 24, 1939. Serial No. 417,469. PUBLISHED MAY 23, 1939. Class 6.

369,775. BLANKETS. PEPPERELL MANUFACTURING COMPANY, Boston, Mass.
Filed March 24, 1939. Serial No. 417,471. PUBLISHED MAY 23, 1939. Class 42.

369,776. ELECTRIC CURRENT GENERATORS. ROLITE, doing business as Burson Knitting Company, Rockford, Ill.
Filed March 24, 1939. Serial No. 417,473. PUBLISHED MAY 23, 1939. Class 21.

369,777. WATCHES—NAMELY, WRIST OR STRAP WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed March 25, 1939. Serial No. 417,483. PUBLISHED MAY 23, 1939. Class 27.

369,778. WATCHES—NAMELY, WRIST OR STRAP WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed March 25, 1939. Serial No. 417,484. PUBLISHED MAY 23, 1939. Class 27.

369,779. ELECTRICALLY OPERATED SUCTION CLEANERS. THE P. A. GEIER COMPANY, Cleveland, Ohio.
Filed March 25, 1939. Serial No. 417,490. PUBLISHED MAY 23, 1939. Class 21.

369,780. MATERIALS FOR CHEMICALLY TREATING METALLIC SURFACES TO PRODUCE AN ETCHED OR PITTED CONDITION OR A FILM THEREON. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif.
Filed March 25, 1939. Serial No. 417,508. PUBLISHED MAY 16, 1939. Class 6.

369,781. FURNITURE PROTECTORS, FURNITURE COVERS, SLIP COVERS, AND UPHOLSTERY COVERS. TRANSPAR CORPORATION, Chicago, Ill.
Filed March 25, 1939. Serial No. 417,513. PUBLISHED MAY 23, 1939. Class 32.

369,782. CHEMICALS USED AS WATER REPELLENTS. ARNOLD, HOFFMAN & CO. INCORPORATED, Providence, R. I.
Filed March 27, 1939. Serial No. 417,521. PUBLISHED MAY 16, 1939. Class 6.

369,783. MECHANICAL WATER SOFTENERS. H. L. G. COMPANY, Kalamazoo, Mich.
Filed March 27, 1939. Serial No. 417,538. PUBLISHED MAY 23, 1939. Class 23.

369,784. CROCHET AND KNITTING COTTON. JAMES LEES & SONS COMPANY, Bridgeport, Pa.
Filed March 27, 1939. Serial No. 417,540. PUBLISHED MAY 23, 1939. Class 43.

369,785. THRU WALL FLASHING. W. A. FINGLES, INC., also doing business as Majestic Flashing Co., Baltimore, Md.
Filed March 28, 1939. Serial No. 417,568. PUBLISHED MAY 23, 1939. Class 12.

369,786. MEDICATED EYE PADS. INTERSTATE LABORATORIES INCORPORATED, Louisville, Ky.
Filed March 28, 1939. Serial No. 417,579. PUBLISHED MAY 23, 1939. Class 6.

369,787. PACKAGED HAIR POMADE AND DRESSING. MORTIMER RUDEN, doing business as Montru For Beauty, New York, N. Y.
Filed March 28, 1939. Serial No. 417,587. PUBLISHED MAY 23, 1939. Class 6.

369,788. COTTON PIECE GOODS. BEMIS BRO. BAG COMPANY, St. Louis, Mo.
Filed March 29, 1939. Serial No. 417,605. PUBLISHED MAY 23, 1939. Class 42.

369,789. AGENT PREPARED FROM NATURAL EARTH AND USEFUL FOR THE DECOLORIZING OR RECLAIMING OF OILS OR CLEANING SOLVENTS. FLORIDIN COMPANY, Warren, Pa.
Filed March 29, 1939. Serial No. 417,608. PUBLISHED MAY 23, 1939. Class 1.

369,790. PAINT IN DRY FORM. THE WESTERN AUTO SUPPLY COMPANY, doing business as Western Auto Stores and as The Western Auto Supply Company, Kansas City, Mo.
Filed March 29, 1939. Serial No. 417,632. PUBLISHED MAY 23, 1939. Class 16.

369,791. VENETIAN BLINDS, ROLLER BLINDS, WOODWEB SHADES, AND BAMBOO SHADES. WESTERN VENETIAN BLIND CO., North Bergen, N. J.
Filed March 29, 1939. Serial No. 417,634. PUBLISHED MAY 23, 1939. Class 32.

369,792. CIGARS. AMORITA CIGAR CO., Baltimore, Md.
Filed March 30, 1939. Serial No. 417,636. PUBLISHED MAY 23, 1939. Class 17.

369,793. LIQUID LOTION FOR SKIN DISEASES. IRVING AMSTERDAM, doing business as Formost Laboratories Co., New York, N. Y.
Filed March 30, 1939. Serial No. 417,637. PUBLISHED MAY 23, 1939. Class 6.

369,794. COVERS OF OIL-SILK, OIL-SKIN, AND FLEXIBLE FABRICS FOR BOTTLES, JARS, AND BOWLS. COLUMBIA PRODUCTS CORPORATION, Brooklyn, N. Y.
Filed March 30, 1939. Serial No. 417,641. PUBLISHED MAY 23, 1939. Class 50.

369,795. STERLING SILVER AND SILVER PLATED FLATWARE, HOLLOW WARE, AND TABLEWARE. NATIONAL SILVER COMPANY, New York, N. Y.
Filed March 30, 1939. Serial No. 417,652. PUBLISHED MAY 23, 1939. Class 28.

369,796. STERLING SILVER AND SILVER PLATED FLATWARE, HOLLOW WARE, AND TABLEWARE. NATIONAL SILVER COMPANY, New York, N. Y.
Filed March 30, 1939. Serial No. 417,653. PUBLISHED MAY 23, 1939. Class 28.

369,797. DOG MEDICINE TO BE USED IN THE TREATMENT OF DOG FITS. R. B. RHODES, doing business as Fits-No-Mo Company, Savannah, Ga.
Filed March 30, 1939. Serial No. 417,655. PUBLISHED MAY 16, 1939. Class 6.

369,798. MIXTURE OF ACCELERATORS CAPABLE OF EFFECTING VULCANIZATION OF RUBBER IN THE MANUFACTURE OF RUBBER PRODUCTS. R. T. VANDERBILT COMPANY, INC., New York, N. Y.
Filed March 30, 1939. Serial No. 417,671. PUBLISHED MAY 23, 1939. Class 6.

369,799. FIELD SEEDS, GRASS SEEDS, VETCH SEEDS, SEED PEAS, SEED BEANS, AND SEED POPCORN. INTERMOUNTAIN SEED & FUEL COMPANY, Twin Falls and Nampa, Idaho.
Filed March 31, 1939. Serial No. 417,693. PUBLISHED MAY 23, 1939. Class 1.

369,800. LACE CURTAINS. WILKES-BARRE LACE MANUFACTURING COMPANY, Wilkes-Barre Pa., and New York, N. Y.
Filed March 31, 1939. Serial No. 417,728. PUBLISHED MAY 23, 1939. Class 42.

369,801. STEEL. THE FORGING AND CASTING CORPORATION, Ferndale, Mich.
Filed April 1, 1939. Serial No. 417,754. PUBLISHED MAY 23, 1939. Class 14.

369,802. WOOLEN PIECE GOODS. FORSTMANN WOOLEN CO., Passaic, N. J.
Filed April 1, 1939. Serial No. 417,755. PUBLISHED MAY 23, 1939. Class 42.

369,803. COUGH DROPS. KRESS & OWEN COMPANY, New York, N. Y.
Filed April 1, 1939. Serial No. 417,766. PUBLISHED MAY 16, 1939. Class 6.

369,804. MEDICINAL PREPARATIONS RECOMMENDED FOR THE TREATMENT OF NEURALGIC AND CONVULSIVE AFFECTIONS, ANGINA PECTORIS, ETC. SCHERING CORPORATION, Bloomfield, N. J.
Filed April 1, 1939. Serial No. 417,784. PUBLISHED MAY 16, 1939. Class 6.

369,805. OINTMENT USED AS AN ASTRINGENT AND AS A SOOTHING, PROTECTIVE, AND ANTISEPTIC AGENT. NYAL COMPANY, Detroit, Mich.
Filed April 3, 1939. Serial No. 417,816. PUBLISHED MAY 16, 1939. Class 6.

369,806. OINTMENT USED AS AN ASTRINGENT, AND AS A SOOTHING, PROTECTIVE, AND ANTISEPTIC AGENT. NYAL COMPANY, Detroit, Mich.
Filed April 3, 1939. Serial No. 417,818. PUBLISHED MAY 16, 1939. Class 6.

369,807. PREPARATION USED IN THE TREATMENT OF COUGHS AND THROAT IRRITATIONS. NYAL COMPANY, Detroit, Mich.
Filed April 3, 1939. Serial No. 417,819. PUBLISHED MAY 16, 1939. Class 6.

369,808. EFFERVESCENT SALT PREPARATION INDICATED FOR USE IN THE TREATMENT OF GASTRIC HYPERACIDITY AND AS AN ALKALIZING AGENT. NYAL COMPANY, Detroit, Mich.
Filed April 3, 1939. Serial No. 417,821. PUBLISHED MAY 16, 1939. Class 6.

369,809. WHISKEY. GEORGE BENZ SONS, INC., St. Paul, Minn.
Filed April 5, 1939. Serial No. 417,861. PUBLISHED MAY 23, 1939. Class 49.

369,810. WATER PURIFYING MATERIALS, IN PARTICULAR TRICALCIUM PHOSPHATE. INTERNATIONAL FILTER CO., Chicago, Ill.
Filed April 5, 1939. Serial No. 417,876. PUBLISHED MAY 23, 1939. Class 6.

369,811. TOILET AND COSMETIC PREPARATIONS IN LIQUID, CREAM, AND POWDER FORM INCLUDING FACIAL CREAMS, FACIAL LOTIONS, FACIAL OR BEAUTY MASKS, FACE POWDERS, ROUGES, LIP STICKS, EYE SHADOWS, AND MASCARA. QUALITY PRODUCTS CO., INC., New York, N. Y.
Filed April 5, 1939. Serial No. 417,890. PUBLISHED MAY 23, 1939. Class 6.

369,812. DOLLS. AMERICAN CHARACTER DOLL CO. INC., New York, N. Y.
Filed April 6, 1939. Serial No. 417,901. PUBLISHED MAY 23, 1939. Class 22.

369,813. RAYON AND SILK PIECE GOODS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 6, 1939. Serial No. 417,933. PUBLISHED MAY 23, 1939. Class 42.

369,814. PREPARATION FOR THE TREATMENT OF THE EYES. DENNIS F. CONSIDINE, doing business as Roseria Company, Chicago, Ill.
Filed April 7, 1939. Serial No. 417,958. PUBLISHED MAY 16, 1939. Class 6.

369,815. HYPERTONIC ANTISEPTIC DRESSING IN PASTE FORM FOR LOCAL INFECTED INFLAMMATORY LESIONS. IRWIN, NEISLER & CO., Decatur, Ill.
Filed April 7, 1939. Serial No. 417,965. PUBLISHED MAY 23, 1939. Class 6.

369,816. MEDICINAL TABLETS TO PROVIDE SYMPTOMATIC AND FUNCTIONAL RELIEF FOR HYPERTENSION. IRWIN, NEISLER & CO., Decatur, Ill.
Filed April 7, 1939. Serial No. 417,966. PUBLISHED MAY 23, 1939. Class 6.

369,817. PREPARATION ADAPTED TO BE APPLIED TO THE HAIR, IMPARTING LUSTER AND GLOSS THERETO, CAUSING THE HAIR TO STAY IN PLACE AND TO PREVENT TANGLING AFTER SHAMPOO. EUGENE FINGERLIN, Tulsa, Okla.
Filed April 10, 1939. Serial No. 418,039. PUBLISHED MAY 23, 1939. Class 6.

369,818. ENAMEL ADAPTED FOR COATING FINGER NAILS. THE REVLON NAIL ENAMEL CORPORATION, New York, N. Y.
Filed April 10, 1939. Serial No. 418,060. PUBLISHED MAY 23, 1939. Class 6.

369,819. FINGER-NAIL STENCILS. GERARD SMALDONE, doing business as The Debs Company, Rochester, N. Y.
Filed April 10, 1939. Serial No. 418,069. PUBLISHED MAY 23, 1939. Class 44.

369,820. BATH SALTS AND WATER SOFTENER. CHARLES D. FARMER, Detroit, Mich.
Filed April 11, 1939. Serial No. 418,097. PUBLISHED MAY 23, 1939. Class 6.

369,821. PERFUME. MAURICE LEVY, doing business as Malvy, New York, N. Y.
Filed April 11, 1939. Serial No. 418,110. PUBLISHED MAY 23, 1939. Class 6.

369,822. ICE SKATES AND SKATE OUTFITS, THE LATTER CONSISTING OF ATTACHED SHOES AND SKATES. NESTOR JOHNSON MANUFACTURING COMPANY, Chicago, Ill.
Filed April 13, 1939. Serial No. 418,208. PUBLISHED MAY 23, 1939. Class 22.

369,823. METALLIC PACKING. INTERNATIONAL METALLIC PACKING CORPORATION, Chicago, Ill.
Filed April 3, 1939. Serial No. 418,224. PUBLISHED MAY 23, 1939. Class 35.

369,824. BOARD GAME. MILTON BRADLEY COMPANY, Springfield, Mass.
Filed April 14, 1939. Serial No. 418,237. PUBLISHED MAY 23, 1939. Class 22.

369,825. OINTMENT FOR HEMORRHOIDS AND PILES. THE PI-LO-RA COMPANY, INC., Denison, Tex.
Filed April 14, 1939. Serial No. 418,263. PUBLISHED MAY 23, 1939. Class 6.

369,826. WOODEN AND UPHOLSTERED HOUSEHOLD AND OFFICE FURNITURE—NAMELY, SOFAS, STOOLS, LOVE SEATS, WING CHAIRS, ETC. BAKER FURNITURE, INC., Grand Rapids, Mich.
Filed April 15, 1939. Serial No. 418,286. PUBLISHED MAY 23, 1939. Class 32.

369,827. TABLES, CHAIRS, BENCHES, STANDS, AND STOOLS. GORMAN L. FISHER, Jamestown, N. Y.
Filed April 15, 1939. Serial No. 418,298. PUBLISHED MAY 23, 1939. Class 32.

369,828. WHISKIES, DOMESTIC AND FOREIGN, BRANDIES, GINS, CORDIALS, AND LIQUEURS. PALMER HOUSE COMPANY, Chicago, Ill.
Filed April 15, 1939. Serial No. 418,309. PUBLISHED MAY 23, 1939. Class 49.

369,829. BICARBONATE OF SODA, SALERATUS, AND BAKING-SODA. CHURCH & DWIGHT CO. INC., New York, N. Y.
Filed March 21, 1939. Serial No. 417,327. PUBLISHED MAY 23, 1939. Class 6.

369,830. MERCOLATED TABLETS, DISINFECTANT SPRAY, USED IN PREVENTING COCCIDIOSIS, ROUND WORMS, RED MITES, CHOLERA, FOWL TYPHOID, TUBERCULOSIS, ETC. SAMUEL R. JOHNSON, doing business as Johnson Laboratories, Kansas City, Mo.
Filed April 17, 1939. Serial No. 418,345. PUBLISHED MAY 23, 1939. Class 6.

369,831. INSECTICIDES. THE NATIONAL BROOM MFG. CO., Pueblo, Colo.
Filed April 17, 1939. Serial No. 418,354. PUBLISHED MAY 23, 1939. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

369,832. (CLASS 39. CLOTHING.) MOE LEVY & SON, INC., New York, N. Y. Filed Mar. 21, 1938. Serial No. 404,316.

John Stuarts

For Men's Haberdashery—viz., Outer Shirts, Neckties, Robes, Socks, Underwear, Pajamas, and Hats.
Claims use since Mar. 15, 1938.

369,833. (CLASS 39. CLOTHING.) EVEN-PUL FOUNDATIONS, New York, N. Y. Filed Mar. 28, 1938. Serial No. 404,564.

THE UNIT Vital Control

For Brassières, Girdles, Corselets, and Foundation Garments.
Claims use since January, 1938.

369,834. (CLASS 39. CLOTHING.) BONAR-PHELPS CO., INC., New York, N. Y. Filed June 9, 1938. Serial No. 407,257.

Page-Roller

For Hats for Men.
Claims use since May 1, 1938.

369,835. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BAY CITY PRODUCE COMPANY, Los Angeles, Calif. Filed June 13, 1938. Serial No. 407,418.

BAY CITY

For Fresh Citrus Fruit, Fresh Deciduous Fruit, and Fresh Vegetables.
Claims use since June 7, 1938.

369,836. (CLASS 39. CLOTHING.) STAR-MAID DRESSES, INC., New York, N. Y. Filed June 14, 1938. Serial No. 407,476.

Pax-well

For Women's and Misses' Dresses, Coats, Jackets, Skirts, and Blouses Made of Rayon, Silk, Cotton, Wool, or Mixtures Thereof.
Claims use since May 28, 1938.

369,837. (CLASS 39. CLOTHING.) A. S. BECK SHOE CORPORATION, New York, N. Y. Filed June 29, 1938. Serial No. 408,002.

PRIZE PUMP

For Men's and Women's Shoes and Slippers Made of Leather and/or Fabric or Mixtures of These Materials.
Claims use since June 22, 1938.

369,838. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CONNELL BROS. COMPANY LIMITED, San Francisco, Calif. Filed July 20, 1938. Serial No. 408,691.

Connell

For Canned Fruits and Vegetables.
Claims use since Sept. 15, 1937.

369,839. (CLASS 39. CLOTHING.) TRABULSI TEXTILE CO. INC., New York, N. Y. Filed August 24, 1938. Serial No. 409,948.

Lamsdown

For Mufflers and Scarfs.
Claims use since May 2, 1938.

369,840. (CLASS 39. CLOTHING.) O'DONNELL SHOE COMPANY, St. Paul, Minn. Filed Nov. 2, 1938. Serial No. 412,302.

HUMAN FORM

For Children's, Ladies', and Men's Shoes of Leather, Fabric, and a Combination of Leather and Fabric.
Claims use since June 1, 1938.

369,841. (CLASS 39. CLOTHING.) H. P. WASSON & COMPANY, Indianapolis, Ind. Filed Nov. 14, 1938. Serial No. 412,741.

Eversheen

For Outer and Under Shirts for Men, Neckties, Socks, Handkerchiefs, Pajamas, and Bath Robes.
Claims use since October, 1924.

369,842. (CLASS 39. CLOTHING.) EDITH LANCES BRASSIERES, New York, N. Y. Filed Nov. 19, 1938. Serial No. 412,974.

Edith Lances

For Brassières, Corsets, Slips, Beachwear, and Bathing Suits.
Claims use since Nov. 1, 1937.

369,843. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) CRISPO CAKE CONE CO., St. Louis, Mo. Filed Dec. 14, 1938. Serial No. 413,820.

TALL-KUP

For Edible Baked Cups in the Nature of Ice Cream Cones.
Claims use since Apr. 28, 1938.

369,844. (CLASS 39. CLOTHING.) SEARS, ROEBUCK AND CO., Chicago, Ill. Filed Jan. 23, 1939. Serial No. 415,145.

Fashion Tailored

For Men's Gloves.
Claims use since Aug. 1, 1937.

369,845. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) WILLIAM E. METZGER, Rutland, Vt. Filed Jan. 25, 1939. Serial No. 415,204.

ROLLUP

For Awnings.
Claims use since Aug. 1, 1929.

369,846. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) TASTY-KRISP PRODUCTS, INC., Detroit, Mich. Filed Jan. 30, 1939. Serial No. 415,422.

TASTY-KRISP



For Salted and Buttered Popcorn.
Claims use since May 12, 1938.

369,847. (CLASS 39. CLOTHING.) H. C. COHN & Co., Rochester, N. Y. Filed Feb. 15, 1939. Serial No. 416,043.

Bern Royal

For Neckties.
Claims use since May 18, 1938.

369,848. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JERRY M. HUDSON, doing business as Hudson Products, Defiance, Ohio. Filed Feb. 18, 1939. Serial No. 416,171.

HUDSON'S

For Hog Feed, Chicken Feed, and Dairy Feed.
Claims use since Nov. 15, 1937.

369,849. (CLASS 39. CLOTHING.) RUTH C. HERRICK, doing business as Slipper-Sox Co., Minneapolis, Minn. Filed Feb. 20, 1939. Serial No. 416,256.

SLIPPER-SOX

For Protective Covering for Wear over Shoes and Other Footwear.
Claims use since Oct. 27, 1924.

369,850. (CLASS 39. CLOTHING.) THE WARNER BROTHERS COMPANY, Bridgeport, Conn. Filed Feb. 27, 1939. Serial No. 416,492.

STA-UP-TOP

For Women's Undergarments—Namely, Girdles and Step-Ins of the Corset or Girdle Type.
Claims use since Jan. 12, 1938.

369,851. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) C. A. RIPLEY, doing business as Ripley Vegetable Co., Mercedes, Tex. Filed Mar. 20, 1939. Serial No. 417,300.

BELIEVE IT OR NOT
RIPLEY'S

Are Always Top Quality

For Fresh Vegetables.
Claims use since February, 1938.

369,852. (CLASS 39. CLOTHING.) DAVID A. HARRISON, doing business as Flexuede Hosiery, Boston, Mass. Filed Mar. 29, 1939. Serial No. 417,615.

Pocket Heel

For Ladies' Full-Fashioned Silk Hosiery.
Claims use since Mar. 10, 1938.

369,853. (CLASS 39. CLOTHING.) MOHN BROTHERS COMPANY, Reading, Pa. Filed Apr. 4, 1939. Serial No. 417,845.

SNOW-BLEACH

For Hats Bodies of Felt for Men, Women, and Children.
Claims use since Jan. 1, 1937.

369,854. (CLASS 39. CLOTHING.) HENRY POLLAK, INC., New York, N. Y. Filed Apr. 10, 1939. Serial No. 418,058.

FLAMAND

For Felt and Straw Hat Bodies.
Claims use since 1928.

369,855. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) S. M. JONES, doing business as S. M. Jones & Company, New Bern, N. C. Filed May 2, 1939. Serial No. 418,976.

CAPE LOOKOUT

For Fresh Vegetables.
Claims use since June 15, 1937.

369,856. (CLASS 31. FILTERS AND REFRIGERATORS.) BETZ CORPORATION, Hammond, Ind. Filed May 12, 1939. Serial No. 419,329.

Filterpure

For Coil that Refrigerates and Purifies the Air in Refrigerators.
Claims use since Oct. 12, 1934.

369,857. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) REED O. HULBERT, doing business as Hulbert Creeper Company, Ashtabula, Ohio. Filed May 24, 1939. Serial No. 419,761.

Smash-Proof

For Repairmen's Trucks for Working under Vehicles.
Claims use since May 7, 1935.

TRADE-MARK REGISTRATIONS RENEWED

126,086. **CIBA.** COAL-TAR COLORS. Registered July 22, 1919. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland, a limited liability company of Switzerland. Renewed July 22, 1939.

126,087. **CIBA, ETC.** INDIGO. Registered July 22, 1919. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland, a limited liability company of Switzerland. Renewed July 22, 1939.

126,088. **DIAL.** A PHARMACEUTICAL PRODUCT—VIZ., C.C-DIALLYLBARBITURIC ACID—AND PARTICULARLY APPLICABLE AS A DORMITIVE AND A SEDATIVE. Registered July 22, 1919. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland, a limited liability company of Switzerland. Renewed July 22, 1939.

126,949. **A BIPLANE.** COAL-TAR DYESTUFFS. Registered October 14, 1919. NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y., a corporation of New York. Renewed October 14, 1939.

126,970. **SHORT-CUT.** LATHES. Registered October 14, 1919. O. R. ADAMS MFG. CO., INC., Rochester, N. Y. Renewed October 14, 1939, to Seneca Falls Machine Co., Seneca Falls, N. Y., a corporation of Massachusetts, assignee by mesne assignments.

127,045. **CALIFORNIA STAR.** CHOCOLATE. Registered October 21, 1919. D. GHIRARDELLI Co., San Francisco, Calif., a corporation of California. Renewed October 21, 1939.

127,078. **A PARTLY CIRCULAR DESIGN.** TWIST-DRILLS. Registered October 21, 1919. LATROBE TOOL COMPANY, Latrobe, Pa. Renewed October 21, 1939, to United Drill and Tool Corporation, Chicago, Ill., a corporation of Michigan, assignee.

127,254. **KIDDIE'S KICKS.** BOOTS AND SHOES OF KID, LEATHER, AND CANVAS. Registered October 28, 1919. UNITED WORKINGMEN'S BOOT & SHOE MFG. Co. Renewed October 28, 1939, to Buckingham & Hecht, San Francisco, Calif., a corporation of California, assignee.

127,406. **WING FOOT.** RUBBER OR COMPOSITION HEELS AND SOLES FOR BOOTS AND SHOES. Registered November 11, 1919. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed November 11, 1939.

127,769. **PERIGEE.** FOOD-COLORS. Registered December 2, 1919. NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y., a corporation of New York. Renewed December 2, 1939.

127,864. **PENN AMERICAN.** FUEL AND LIGHTING OILS, ENGINE AND AUTOMOBILE LUBRICATING OILS, AND SO-CALLED PARAFFIN-WAX. Registered December 9, 1919. PENN AMERICAN REFINING CO. Renewed December 9, 1939, to The Pennzoil Company, Oil City, Pa., a corporation of Pennsylvania, assignee.

127,926. **DUNHAM.** CERTAIN NAMED STEAM-HEATING APPARATUS. Registered December 16, 1919. C. A. DUNHAM COMPANY, Marshalltown, Iowa. Renewed December 16, 1939, to C. A. Dunham Company, Chicago, Ill., a corporation of Iowa.

128,003. **A. B. C.** SILK PIECE GOODS. Registered December 23, 1919. ARTHUR BEIR & Co., INC., New York, N. Y., a corporation of New York. Renewed December 23, 1939.

128,056. **PROTEX.** CERTAIN NAMED COTTON GOODS. Registered December 23, 1919. ELY & WALKER DRY GOODS COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed December 23, 1939.

128,063. **FISK.** RUBBER TIRES. Registered December 23, 1919. THE FISK RUBBER COMPANY. Renewed December 23, 1939, to The Fisk Rubber Corporation, Chicopee Falls, Mass., a corporation of Delaware, assignee.

128,066. **FREDISCO.** FLOOR-DRESSINGS. Registered December 23, 1919. FREDERICK DISINFECTANT Co., Atlanta, Ga., a corporation of Georgia. Renewed December 23, 1939.

128,075. **PETER PAN.** CLOTHES—NAMELY, TROUSERS, JACKETS, AND COATS. Registered December 23, 1919. M. E. GREENFIELD Co., New York, N. Y., a firm. Renewed December 23, 1939.

128,092. **HOYT'S FLINTSTONE.** LEATHER BELTING. Registered December 23, 1919. EDWARD R. LADEW COMPANY, INC., Glen Cove, N. Y. Renewed December 23, 1939, to Graton & Knight Company, Worcester, Mass., a corporation of Massachusetts, assignee.

128,093. **HOYT'S TURTLE.** LEATHER BELTING. Registered December 23, 1919. EDWARD R. LADEW COMPANY, INC., Glen Cove, N. Y. Renewed December 23, 1939, to Graton & Knight Company, Worcester, Mass., a corporation of Massachusetts, assignee.

128,105. **BIFF BANG.** A FABRIC MADE WITH A COTTON WARP AND A FILLING OF WOOL OR ALPACA OR MOHAIR. Registered December 23, 1919. LESHER, WHITMAN & Co., INC., New York, N. Y. Renewed December 23, 1939, to Goodall Worsted Co., Sanford, Maine, a corporation of Maine, successor.

128,110. **LIONDALE.** MEN'S DRESS AND NEGLIGÉE SHIRTS. Registered December 23, 1919. THE LIONDALE SHIRT CO. INC. Renewed December 23, 1939, to Liondale Shirt Corporation, New York, N. Y., a corporation of New York, assignee.

128,196. **A RAINBOW, ETC.** FLOOR-RUGS. Registered December 23, 1919. WAITE GRASS CARPET COMPANY. Renewed December 23, 1939, to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin, by change of name.

128,197. **RAINBOW.** FLOOR-RUGS. Registered December 23, 1919. WAITE GRASS CARPET COMPANY. Renewed December 23, 1939, to Waite Carpet Company, Oshkosh, Wis., a corporation of Wisconsin, by change of name.

128,214. **ALDON.** CAR-REPLACERS AND WRECKING-FROGS, RAIL-SAWS, RAIL-BENDERS, RAIL-DRILLS, AND CAR-MOVERS. Registered December 23, 1919. THE ALDON COMPANY, Chicago, Ill., a corporation of Illinois. Renewed December 23, 1939.

LABELS

REGISTERED AUGUST 1, 1939

53,315.—*Title:* ATLANCO OCEAN FISH FILLETS. For Fillets. ATLANTIC COAST FISHERIES CORPORATION OF NEW YORK, New York, N. Y. Published May 9, 1939.

53,316.—*Title:* GOETZE'S. For Peppermint Gum. BALTIMORE CHEWING GUM CO., Baltimore, Md. Published June 26, 1939.

53,317.—*Title:* BOR-A-GATED. For Cotton Insulation. BAWDEN BROTHERS, INC., Davenport, Iowa. Published June 1, 1939.

53,318.—*Title:* BEECH-NUT SUGAR COOKIES. For Sugar Cookies. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published June 19, 1939.

53,319.—*Title:* SMART BRACES. For Braces. IRVING BRANDT & CO., Chicago, Ill. Published June 12, 1939.

53,320.—*Title:* BOHEMIAN. For Cheese. WILLIAM M. CAHOONE, Pasadena, Calif. Published June 21, 1939.

53,321.—*Title:* BIAŁY ORZEŁ. For Polish Type Whiskey. B. CRIBARI & SONS, New York, N. Y. Published December 20, 1938.

53,322.—*Title:* STERO-VAC. For Canned Whole Grain Bantam Corn. THE CROWN CAN COMPANY, Philadelphia, Pa. Published May 17, 1939.

53,323.—*Title:* G-A-O-W LOTION. For a Lotion for the Relief of Itching. PATRICK HUGH GEOGHEGAN, Los Angeles, Calif. Published May 1, 1939.

53,324.—*Title:* HILLS BROS. COFFEE—RED CAN BRAND. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published May 15, 1939.

53,325.—*Title:* MEAD'S PECTIN-AGAR IN DEXTRI-MALTOSE. For a Product Consisting of Pectin, Agar, Maltose, Dextrins, and Sodium Chloride. MEAD JOHNSON & COMPANY, Evansville, Ind. Published June 27, 1939.

53,326.—*Title:* LIANE QUALITY-TESTED SHAMPOO. For Shampoo. LIANE INCORPORATED, Freeport, Ill. Published June 19, 1939.

53,327.—*Title:* DELICIOUS BALL GUM. For Ball Gum Vending Machines. RALPH MENTZER, doing business as F & R Novelty Company, Youngstown, Ohio. Published July 1, 1939.

53,328.—*Title:* MONO PANDA KUP. For Ice Cream. MONO SERVICE CO., Newark, N. J. Published June 15, 1939.

53,329.—*Title:* POTATO CHIPS. For Potato Chips. THE NATIONAL POTATO CHIP INSTITUTE, Cleveland, Ohio. Published June 5, 1939.

53,330.—*Title:* PARNOX. For a Weed Exterminator. C. F. PARROTT, doing business as Parco Products Co., Allentown, Pa. Published April 20, 1939.

53,331.—*Title:* STANLEY CUP ICE HOCKEY GAME. For a Game. LOUIS RUBIN, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Published June 7, 1939.

53,332.—*Title:* LET'S COOK! For a Game. LOUIS RUBIN, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Published June 7, 1939.

53,333.—*Title:* SELMER MAGNI-TONE LIGATURE. For Ligatures. H. & A. SELMER, INC., Elkhart, Ind. Published December 22, 1938.

53,334.—*Title:* GOLD COAST. For Coffee. SWANSON BROTHERS, INCORPORATED, Chicago, Ill. Published June 1, 1939.

53,335.—*Title:* ZEPHYR. For Coffee. SWANSON BROTHERS, INCORPORATED, Chicago, Ill. Published June 1, 1939.

53,336.—*Title:* ALTES LAGER. For Beer. TIVOLI BREWING COMPANY, Detroit, Mich. Published June 22, 1939.

53,337.—*Title:* WAMPOLE'S PREPARATION. For a Tonic and Stimulant. HENRY K. WAMPOLE & CO., INCORPORATED, Philadelphia, Pa. Published May 18, 1939.

53,338.—*Title:* DR. WEST'S WATER-PROOFED. For Tooth Brushes. WECO PRODUCTS COMPANY, Chicago, Ill. Published June 12, 1939.

53,339.—*Title:* PINKY. For a Cleaner. EMMA L. WEIGOLD, Dayton, Ohio. Published April 19, 1939.

PRINTS

REGISTERED AUGUST 1, 1939

17,521.—*Title:* GABBY GRABS HIMSELF A PENNANT IN THE 9TH. For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published June 18, 1939.

17,522.—*Title:* BLUE CAN BRAND HILLS BROS. COFFEE—ADFORM 1013. For Coffee. HILLS BROS. COFFEE, INC., San Francisco, Calif. Published May 26, 1939.

17,523.—*Title:* TRY MILKY WAY FROZEN. For Candy. MARS, INCORPORATED, Chicago, Ill. Published June 8, 1939.

17,524.—*Title:* YOU PAY FOR A LICENSE BUT . . . For Beer. PABST SALES COMPANY, Peoria Heights, Ill. Published June 7, 1939.

17,525.—*Title:* FEEDS AND NUTRI-DIENTS. For Calf Meal, Calf Flakes, Concentrates for Poultry, Swine and Dairy Use, Norwegian Cod Liver Oil, Concentrated Cod Liver Oil, Meat Scraps, Meat Scraps and Fish Meal, Digester Tankage, Mineralized Digester Tankage and Nutritive Minerals. CARL O. RYDE, Cicero, Ill. Published June 9, 1939.

17,526.—*Title:* SAV-IT. For Boxes. UNITED PAPERBOARD COMPANY, doing business as United Paperboard Company, Inc., New York, Lockport, Thomson, and Victory Mills, N. Y.; Benton Falls, Maine; and Urbana, Ohio. Published April 27, 1939.

REISSUES

AUGUST 1, 1939

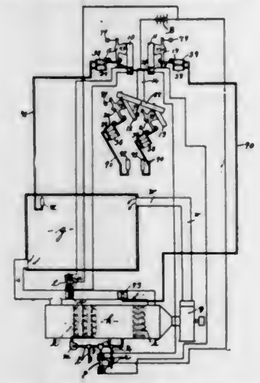
21,166

METHOD AND APPARATUS FOR AUTOMATICALLY CONTROLLING THE OPERATION OF AIR CONDITIONING SYSTEMS

Albert E. Beals, Norwich, N. Y.

Original No. 1,986,316, dated January 1, 1935, Serial No. 562,817, September 14, 1931. Application for reissue December 24, 1936, Serial No. 117,676

34 Claims. (Cl. 236—44)



34. In combination with air conditioning apparatus for an enclosure, mechanism for controlling said apparatus comprising means responsive to changes in the psychrometric conditions of air for maintaining a predetermined effective temperature, and a second condition responsive means for modifying the operation of said control mechanism.

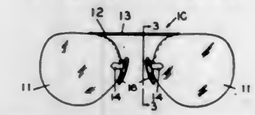
21,167

OPHTHALMIC MOUNTING

Frank E. Bowers, Drexel Hill, Pa., assignor to Doyle & Bowers, Philadelphia, Pa., a firm composed of Frank E. Doyle, Frank E. Bowers, and Erwin Schiefer

Original No. 2,091,583, dated August 31, 1937, Serial No. 132,570, March 23, 1937. Application for reissue March 1, 1939, Serial No. 259,262

6 Claims. (Cl. 88—45)



5. An ophthalmic mounting comprising a pair of lenses, a lens holding device secured to the nasal edge of each lens, a nose-engaging element carried by each device, a member carried by each device, said members being positioned in a plane which is spaced rearwardly from the plane of the lenses, each of said members extending upwardly and outwardly from a point adjacent the nasal edge of the lens and substantially following the contour of the lens, a resilient bridge element and laterally extending means connecting said members to the respective ends of said bridge element, said bridge element lying substantially in the plane of the lenses with its ends contacting, respectively, the upper edges of the lenses.

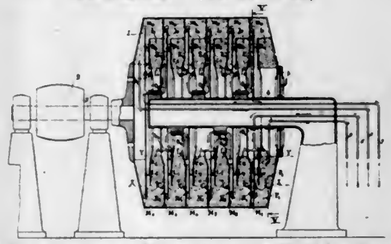
21,168

PROCESS AND APPARATUS FOR THE CONTINUOUS EXTRACTION OR TREATMENT OF LIQUIDS

Charles Coutor, Premery, France, assignor to Société Etablissements Lambiotte Freres, Premery (Nievre Department), France

Original No. 2,036,924, dated April 7, 1936, Serial No. 725,630, May 14, 1934. Application for reissue March 17, 1938, Serial No. 196,576. In France May 19, 1933

18 Claims. (Cl. 196—45)



8. In a process of treating one liquid substance with another liquid substance of different density containing a solvent or reagent for a part of the first liquid substance, the steps of centrifugally stratifying said liquid substances in concentric layers about an axis, causing said layers while subject to centrifugal force to flow beside one another in a direction transverse to said axis against the action of centrifugal force in separated, non-contacting portions each having its surface nearest said axis free and substantially parallel to the axis, and continuously scooping both liquid substances by their force of rotation from said separated portions.

15. In a centrifugal separator, a compartment mounted to rotate about an axis and having its portion remote from the axis closed, a partition in said compartment transverse to said axis dividing the compartment into two sections and providing a passage between said sections adjacent the outside of the compartment, and means to feed a mixture of liquids into one of said sections at a point closer to the axis than said passage but further from the axis than the inner edge of said partition, and means to scoop liquid from each of said sections in the portion adjacent said axis.

21,169

WEIGHING APPARATUS

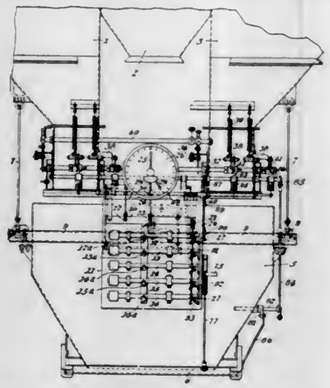
Harold E. McCrery, Dayton, Ohio, assignor to Blaw-Knox Company, Blawnox, Pa., a corporation of New Jersey

Original No. 2,066,012, dated December 29, 1936, Serial No. 48,544, November 6, 1935. Application for reissue December 12, 1938, Serial No. 245,232

21 Claims. (Cl. 249—14)

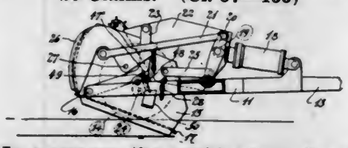
1. Weighing apparatus comprising a plurality of bins each having a discharge opening, a gate for each discharge opening, a weighing hopper, a scale connected to the weighing hopper and hav-

ing a counterpoise beam for weighing the material delivered from each bin, means for opening each gate individually and in any desired order,



and means operable upon the opening of a gate for throwing into action the counterpoise beam which governs the weight of the material controlled by said gate.

21,170
WHEELED SCRAPER
Thomas R. Paulsen, South Milwaukee, Wis., assignor to Bucyrus-Erie Company, South Milwaukee, Wis., a corporation of Delaware
Original No. 2,106,759, dated February 1, 1938, Serial No. 119,790, January 9, 1937. Application for reissue April 12, 1939, Serial No. 267,522
20 Claims. (Cl. 37—133)

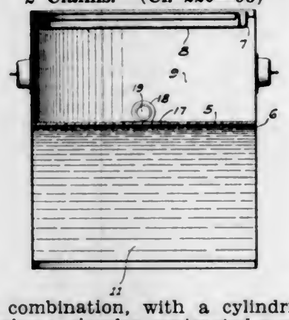


15. In a scraper, the combination of: a frame; ground supports for said frame; a bowl pivoted on the frame for tilting movement in a vertical plane, said bowl having a digging edge at its front end; a front apron, pivotally supported by means which is independent of the bowl and which is in turn supported by the frame, in such manner that the apron accompanies the bowl when the latter is tilted to its dumping position; means to restrain the apron from accompanying the bowl when the latter is tilted to its digging position; and means carried by the frame for tilting the bowl.

PATENTS

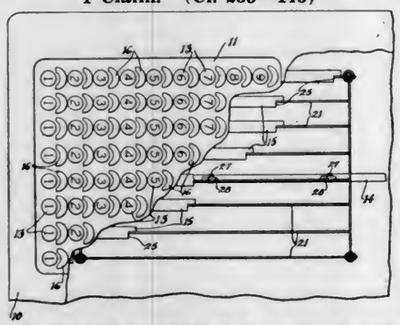
GRANTED AUGUST 1, 1939

2,167,619
COVER FOR SEALING LIQUID SURFACES
Raymond Bainton, Santa Monica, Calif.
Application August 16, 1938, Serial No. 225,171
2 Claims. (Cl. 220—93)



2. The combination, with a cylindrical container having a circular contracted mouth; of a disk insertable within said container to form an air-excluding seal for a body of liquid partly filling said container, said disk having a normal diameter approximately equal to the internal diameter of said container and being sufficiently flexible to render it insertable through said contracted mouth, said disk also having manually graspable handle means protruding from a face thereof, said handle means consisting of a pair of elongated tab members substantially abutting against each other at the central portion of the disc, each of said tab members having an elongated basal attaching portion of sheet material secured to the disk and materially stiffening it along one of its diameters without adding to its stiffness along the diameter thereof at a right angle thereto.

2,167,620
COMPUTING MACHINE
Ernest Beaumont, Canton, Ohio
Application June 14, 1937, Serial No. 148,103
1 Claim. (Cl. 235—145)

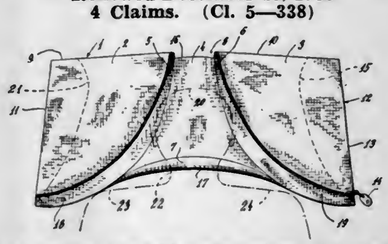


In a computing machine, a group of number keys each having a setting up movement and a further movement, a control key located at one side of each number key entirely independent of the number key and having an operating movement, the setting up movement of each number key bringing the same to a position substantially flush with the normal position of the corresponding control key and the further movement of each number key bringing the same to a position substantially flush with the operated movement of the corresponding control key, a longitudinally displaceable shift member normally at rest and having a projection thereon, and a vertically movable frame adapted to be depressed by the operation of any one of the control keys and having a cam cooperating with said projection for moving the displaceable shift member upon operation of one of the control keys.

2,167,621
METAL PICKLING PROCESS
David J. Beaver, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application September 14, 1937, Serial No. 163,823
15 Claims. (Cl. 148—8)

1. A process of pickling a metal which comprises subjecting the metal to be pickled to the action of a mineral acid solution containing a small proportion of a compound containing a phenanthridine nucleus.

2,167,622
PILLOW OR THE LIKE
Marie Bentivoglio, New York, N. Y.
Application January 22, 1937, Serial No. 121,764
Renewed December 14, 1938
4 Claims. (Cl. 5—338)

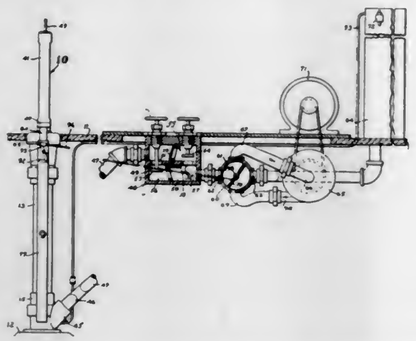


1. A pillow or the like, comprising the combination of a substantially continuous underside forming a substantially flat foundation coextensive with the entire pillow, upon the upper side a pair of raised pillow wing portions spaced apart and forming the two ends of the pillow, inner opposite edges upon said wing portions converging toward the rear edge of the pillow in order to accommodate heads of different breadth, the spaced relation of the wing portions providing between them a generally flat depressed intermediate portion between said two wing portions terminating at the rear edge of the pillow, and a raised roll bounding said depressed portion at the front edge of the same, said pillow being stuffed throughout its entire extent.

2,167,623
FLUID OPERATED PUMP JACK
George H. Britter, Long Beach, Calif.
Application August 15, 1936, Serial No. 96,175
4 Claims. (Cl. 60—52)

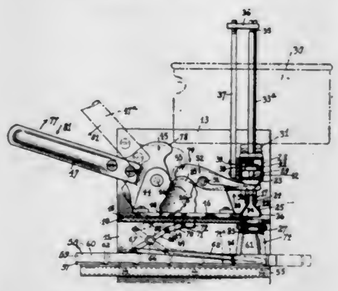
1. In a hydraulic pump jack, a support, a pair

of cylinders on said support, a piston in each of said cylinders, each of said cylinders having an inlet, a valve, said valve including a body having a cylindrical bore and having four openings therein, each of the openings communicating with said bore, a pipe connected to each of said openings, means connecting one of said pipes to said cylinders, a tank adapted to hold liquid, means to connect a second pipe with said tank, a pump, means to connect a third pipe to the inlet to said pump, means to connect a fourth pipe to the outlet from said pump, a shiftable valve member in said bore, said member in one position allowing communication between said



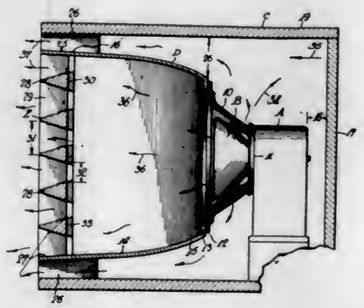
first and third pipes and between said second and fourth pipes, said valve member in another position affording communication between said first and fourth pipes and between said second and third pipes, a lever on said valve member, a housing, an arm pivoted on said housing and connected to said lever, a cam engaging member in said housing, means on said cam engaging member engaging said lever to rock the latter, a cam rod connected to one of said pistons, a pair of cams on said cam rod, said cam engaging member being pivoted in said housing and means on said cam engaging member to engage said cams to rock the cam engaging member and thereby shift said arm and said valve.

2,167,624
FILLING AND SEALING DEVICE FOR CONTAINERS
Frank Brodsky, New York, N. Y.
Application August 12, 1938, Serial No. 224,447
4 Claims. (Cl. 226—79)



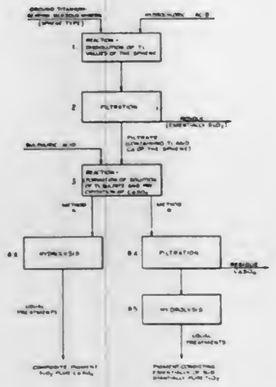
2. In a filling device for a plurality of containers, a filling container proper having an exit aperture for each container and a refilling opening, a movable member in said filling container, one extreme position of which is adapted to open said exit apertures and close said refill opening, the other extreme position of the same, vice versa, being adapted to close said exit apertures and open said filling opening, means to move said member in one or in the other extreme position, means to press a sealing disk on each container after the same has been filled, said pressing and sealing means normally being kept in an inoperative position, said means to place said member into one or the other of its extreme positions including spring means normally placing said member in a position closing said exit apertures, a rockable lever, and an operating lever actuated by said rockable lever in one or the other direction, in one position permitting the operating of said spring means to close said exit apertures, and in the other position counteracting the same and placing said movable member in its other extreme position, closing said refill opening, and in said first position said operating lever also acting on said means to press and seal said disks, while said exit openings are closed.

2,167,625
SPEAKER UNIT
Edmond Peter Albano, Pelham Manor, N. Y.
Application February 1, 1938, Serial No. 188,035
5 Claims. (Cl. 181—31)



1. A speaker unit comprising an outside conduit of substantial length, having a wall closing one end thereof, the other end being open, an inside conduit of substantial length but shorter than said outside conduit, exteriorly spaced around its entire periphery from said outside conduit so as to leave a passageway completely encircling said inside conduit, said inside conduit extending from adjacent said wall to and being also open at the open end of said outside conduit, a conical speaker element positioned so as to diverge toward said open end, closing off the inside end of said inside conduit and having its periphery attached to the inside end of said inside conduit, said inside conduit conducting the tones from the front of the conical element to said open end and said encircling passageway conducting the tones from the back of the conical element to said open end, and fin members extending across said encircling passageway longitudinally of said conduits to support said inside conduit from said outside conduit, said inside and outside conduits being constructed of a non-absorbent wood material, and said inside conduit diverging from its end adjacent said wall to its open end, to cause said encircling passageway to converge toward the open end, and a wooden grille covering the open end of said inside conduit.

2,167,626
PREPARATION OF TITANIUM DIOXIDE PIGMENTS
Hugh V. Alessandroni, New York, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
Application October 6, 1937, Serial No. 167,565
12 Claims. (Cl. 134—58)

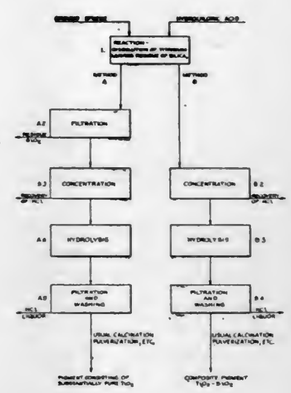


1. A process for the preparation of titanium dioxide pigments from titanium-bearing siliceous minerals containing alkaline earth metals which comprises grinding such a titanium-bearing siliceous mineral, mixing the said ground mineral with aqueous hydrochloric acid having a concentration above about 12.0 percent, heating the resulting mixture until all constituents of the said mineral which are capable of forming hydrolyzable and non-hydrolyzable hydrochloric acid-soluble chlorides are dissolved in the hydrochloric acid, mixing the resulting solution with at least sufficient sulfuric acid to convert the said chlorides to sulfates and hydrolyzing the resulting solution in order to precipitate the titanium contained therein as hydrous titanium oxide, washing, calcining and pulverizing the same.

2,167,627
METHOD OF BENEFICIATING TITANIUM-BEARING SILICEOUS MINERALS
Hugh V. Alessandroni, New York, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 6, 1937, Serial No. 167,566
8 Claims. (Cl. 75—1)

1. A method of beneficiating titano-silicate mineral to recover the titanium values thereof, which comprises grinding said mineral and mixing the ground mineral with an aqueous solution of hydrochloric acid having a concentration between about 5.0 percent and about 12.0 percent and containing at least sufficient chloride to combine with all the constituents of the said mineral which are capable of forming non-hydrolyzable, hydrochloric acid-soluble salts, and heating the resulting mixture until substantially all said constituents of the said mineral are dissolved in the hydrochloric acid, and thereafter separating the resulting residue containing substantially all the titanium of the mineral.

2,167,628
PREPARATION OF TITANIUM DIOXIDE PIGMENTS
Hugh V. Alessandroni, New York, N. Y., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey
Application October 6, 1937, Serial No. 167,567
11 Claims. (Cl. 134—58)

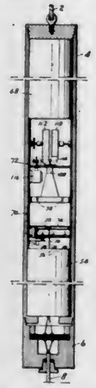


1. A process for the preparation of titanium dioxide pigments from titano-silicate minerals which comprises grinding a titano-silicate mineral, mixing the ground mineral with aqueous hydrochloric acid having a concentration above 12 percent, heating the mixture at temperatures above 40° C. to the boiling point thereof while maintaining constant the acid volume until substantially all the constituents of the said mineral which are capable of forming hydrolyzable and non-hydrolyzable hydrochloric acid-soluble chlorides are dissolved in the hydrochloric acid, evaporating the resultant solution until the same is readily hydrolyzable, hydrolyzing the said solution in order to precipitate the titanium contained therein as hydrous titanium oxide, washing, calcining and pulverizing the same.

2,167,629
METHOD OF APPLYING GUMMED TAPE, LABELS, AND THE LIKE
Hans F. Bauer and Jordan V. Bauer, Chicago, and Don M. Hawley, Geneva, Ill., assignors to Stein, Hall Manufacturing Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application August 10, 1938, Serial No. 224,111
12 Claims. (Cl. 216—62)

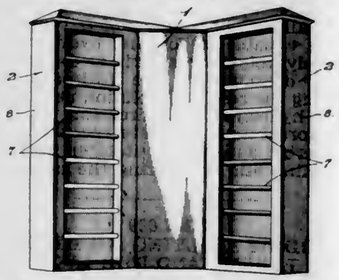
1. A method of joining two surfaces together which comprises placing a water-soluble amylaceous adhesive upon one surface, drying said adhesive, moistening the dried adhesive with a wetting solution containing a viscosity increasing agent for amylaceous dispersions, and joining the surfaces together.

2,167,630
ELECTRICAL PROSPECTING METHOD AND APPARATUS
Charles B. Bazzoni, Wallingford, and Joseph Razek, Llanerch, Pa., assignors to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application April 2, 1936, Serial No. 72,246
14 Claims. (Cl. 175—182)



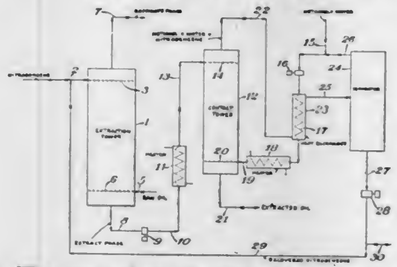
13. Means for determining the location and character of formations penetrated by a bore hole comprising an exploring unit, said exploring unit including a vacuum tube generator of high frequency oscillations and means for establishing thereby an electromagnetic field penetrating formations in the vicinity of the bore hole, the grid current of said generator being affected by materials in the vicinity of the field establishing means; and means for producing indications of said grid current.

2,167,631
ELECTRIC TRAFFIC SIGNAL
James Henry Brady, Louisville, Ky.
Application October 14, 1937, Serial No. 169,013
12 Claims. (Cl. 177—328)



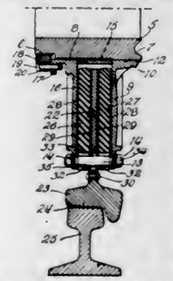
1. In an electric traffic signal unit, two horizontally extended signal lights of contrasting colors facing traffic going in opposite directions on one street, two horizontally extended signal lights of contrasting colors at right angles to the first named lights facing traffic going in opposite directions on an intersecting street, and an L-form holder for said signal lights having two horizontally extended arms at right angles to each other, each arm being open at opposite sides to permit the signal lights to show through, said signal lights being spaced outwardly of the arms of said holder sufficiently to show the entire signal lights to all approaching traffic up to and including the stopping points of said traffic at the street intersection.

2,167,632
RECOVERY OF SOLVENT FROM HYDROCARBON OILS
Eugene R. Brownscombe and Seymour W. Ferris, Aldan, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application July 18, 1936, Serial No. 91,342
11 Claims. (Cl. 260—645)



1. The method of recovering a nitrated aromatic hydrocarbon from admixture with hydrocarbon oil, which comprises contacting the nitrated aromatic hydrocarbon and oil, at a temperature of from about 250° F. to about 400° F., with a solvent, which at temperatures of from about 250° F. to 400° F. has substantial solvent power for the nitrated aromatic hydrocarbon but not for oil, and which at temperatures less than about 150° F. has relatively little solvent power for the nitrated aromatic hydrocarbon and for oil, effecting separation of the oil constituents from the nitrated aromatic hydrocarbon while maintaining the mixture at said elevated temperature, removing separated oil, and cooling the remaining mixture to separate and recover the nitrated aromatic hydrocarbon.

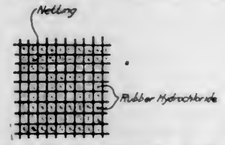
2,167,633
WHEEL
Robert J. Burrows and Alfred O. Williams, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application July 10, 1936, Serial No. 89,927
16 Claims. (Cl. 295—11)



12. The combination, with a rim member having a radially inwardly directed flange and a hub member having spaced radially outwardly directed flanges on opposite sides of the rim flange, of cushioning means between each hub flange and said rim flange, said cushioning means each comprising an annular resilient disc carrying

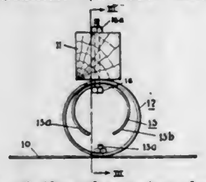
thin metallic plates on opposite lateral surfaces, stud means extending transversely through all said plates and spaced circumferentially about the outer peripheries of the hub flanges for clamping one plate of each cushioning means to the respective hub flange, and means extending transversely through the rim flange engaging plates radially outwardly of the hub flanges for clamping said last-named plates to the rim flange.

2,167,634
PACKAGE
William C. Calvert, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
Application August 16, 1933, Serial No. 685,411
6 Claims. (Cl. 229—3.5)



1. In the enclosing member of a package at a seam between two pieces of a backing material supporting a continuous film composed essentially of a non-tacky rubber hydrochloride, or at a seam between two portions of a single piece of backing material supporting a continuous film composed essentially of a non-tacky rubber hydrochloride, a bond of rubber hydrochloride formed by coalescence of the rubber hydrochloride supported by said two pieces or portions of backing material.

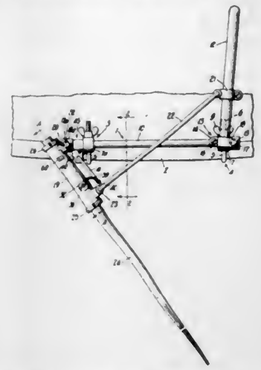
2,167,635
TRAFFIC GUARD
Eugene V. Camp, Atlanta, Ga.
Application March 12, 1935, Serial No. 10,695
24 Claims. (Cl. 256—13.1)



16. A device of the character described comprising a series of supports, a sheet of metal disposed longitudinally and entirely to one side thereof, and a multiple buffer element disposed between said metal and said supports and uniting one with the other, said buffer having an outer portion calculated to absorb an initial shock, and an inner portion which becomes operative upon said outer portion's having absorbed a certain impacting force.

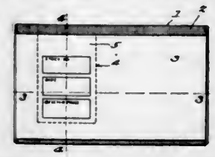
2,167,636
OAR OPERATING MECHANISM
Conrad Carlson, Brooklyn, N. Y.
Application December 8, 1937, Serial No. 178,632
14 Claims. (Cl. 9—25)

1. In an oar operating unit, the combination with an operating lever of an oar carrying sleeve, means operatively connecting the operating lever with the sleeve, to enable the rower to control movements of the sleeve about two axes substantially at right angles to one another, means supporting the oar in the sleeve with capacity for turning about the axis of the sleeve, a spring mounted within the sleeve for normally maintaining the oar in a definite rotative position with respect to the sleeve, in which the oar blade is



disposed substantially vertically, and means for turning the oar relatively to the sleeve as the sleeve is moved upward to cause the oar blade to be turned to a substantially horizontal attitude.

2,167,637
STOCK CONTROL MEANS
Clarence Lloyd Claff, Randolph, Mass.
Application November 25, 1935, Serial No. 51,531
7 Claims. (Cl. 40—7)



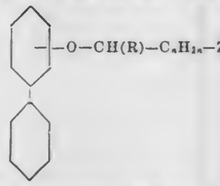
1. A stock control means including a box, a label affixed thereto having a sales control tag integral therewith, said tag being divided from the label by weakened lines to permit convenient separation of the tag from the label, duplicating means on the back of the tag, and a duplicate tag integral with said label and back of the duplicating means, the tag portions of the label being unaffixed to the box.

2,167,638
COATING COMPOSITION FOR SHEET METAL CONTAINERS
Berton S. Clark, San Francisco, Calif., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application October 17, 1934, Serial No. 748,759
2 Claims. (Cl. 134—3)

1. A coating composition for lining the interior surfaces of beer, ale or like product sheet metal containers to inhibit reaction between the product and the metal and to inhibit absorption of product flavors by the coating, which comprises a mixture of asphalt and "gilsonite" in proportions substantially two to one by weight dissolved in a hydrocarbon solvent, and lupulin free of foreign and insoluble matter dissolved in a like solvent, the ultimate coating when applied to said containers and when dried being free of said solvents and having an effective lupulin content of from about five to ten percent by weight.

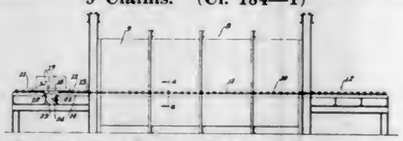
2,167,639
CHLORALKYL XENOXY ETHERS
Gerald H. Coleman, Lindley E. Mills, and Garnett V. Moore, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application July 13, 1936, Serial No. 90,380
6 Claims. (Cl. 260—612)

6. A compound having the general formula



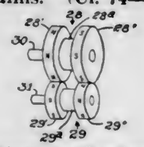
wherein R is a substituent of the class consisting of hydrogen and alkyl radicals, n is an integer, Z is a halogen selected from the class consisting of chlorine and bromine, and said halogen is attached to a primary or secondary carbon atom.

2,167,640
LUBRICATING CONSTRUCTION FOR ROLLER RAILS FOR FURNACES
Frank T. Cope, Salem, Ohio, assignor to The Electric Furnace Company, Salem, Ohio, a corporation of Ohio
Application May 31, 1938, Serial No. 210,926
9 Claims. (Cl. 184—1)



1. In a heating furnace having a heating chamber and a roller hearth extending from a point outside of the furnace through the heating chamber, the hearth including rollers and bearings for the rollers within the furnace, material supporting trays having tracks movable along said rollers, and means outside of said furnace engageable with said tray tracks for applying lubricant thereto, whereby when said trays move over rollers in said furnace, the lubricant is dislodged from the tray tracks by the rollers and drops to the bearings within the furnace to lubricate the same.

2,167,641
TRANSMISSION MECHANISM
Leon Dewan, New York, N. Y., assignor of fifty per cent to George H. Callaghan, New York, N. Y.
Application October 22, 1937, Serial No. 170,321
2 Claims. (Cl. 74—210)



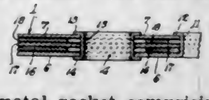
1. A transmission mechanism including two permanently magnetized rotative elements, the peripheries of which are in contact, the entire contacting portion of the periphery of one of said rotative elements being of north polarity and the entire contacting portion of the periphery of the other being of south polarity.

2,167,642
METHOD AND APPARATUS FOR PRINTING SOUND FILM
Leon Dewan, New York, N. Y., assignor of fifty per cent to George H. Callaghan, New York, N. Y.
Application December 11, 1937, Serial No. 179,294
3 Claims. (Cl. 88—24)



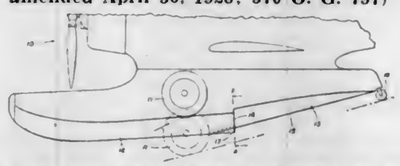
1. The method of photographically printing a longitudinally defined sound wave track from plain film which normally contains ground noise irregularities distinct from the sound waves, consisting in imaging said sound wave track upon a sensitive film, producing a plurality of superimposed images of said sound wave track which accurately coincide in the longitudinal plane to define scanning of the sound waves, and laterally displacing portions of one image relative to corresponding portions of another image to an extent substantially of the order of the size of the ground noise irregularities, whereby portions of one image shall fall upon different portions of the other image in the lateral plane.

2,167,643
GASKET
James G. Dickson, Glencoe, Ill., assignor to Dickson Gasket Company, Chicago, Ill., a corporation of Illinois
Application November 5, 1936, Serial No. 109,263
4 Claims. (Cl. 288—32)



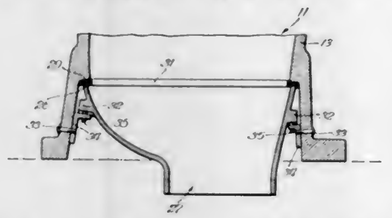
1. An all metal gasket comprising two outside and one or more inside laminae of sheet metal, a plurality of apertures through the gasket and flanged holding means extending through said apertures, one or more of the inside laminae being cut back around each of two adjacent apertures past the line of the outer edge of the flanged portion of the holding means, the lamina which is cut back with respect to one aperture extending clear up to and closely encircling the other aperture whereby no lamina is cut back enough to remove all the metal between any two adjacent apertures.

2,167,644
AMPHIBIAN HULL RESILIENT STEP
Walter S. Diehl, United States Navy
Application December 4, 1937, Serial No. 178,094
3 Claims. (Cl. 114—66.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



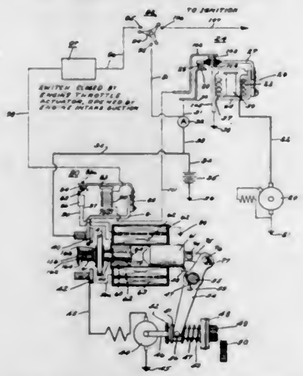
1. In an amphibian aircraft V-shaped hull having a main step dividing its keel into a forward keel and an after keel, a resilient member located at the keel line of said step, said resilient member being in the form of a tetrahedron defined by a plane extending parallel to the keel line of the after keel and equidistant from the V sides of the after keel.

2,167,645
WATER CLOSET
Sven Duner, Wheaton, Ill., assignor to Duner Co., Chicago, Ill., a corporation of Illinois
Application April 27, 1938, Serial No. 204,619
4 Claims. (Cl. 4—76)



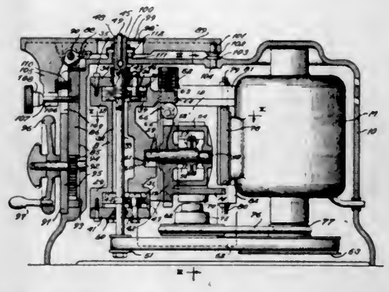
1. A water closet, comprising a bowl having a lower open end, a stand portion formed integrally with said bowl for supporting the same and having a lower open end, a dump pan mounted in said stand portion adjacent the lower open end of said bowl, a closure member mounted in the lower open end of said stand portion, said closure member being adjustably mounted and adapted to be removed therefrom to provide access to said dump pan.

2,167,646
ENGINE STARTER CONTROL APPARATUS
John B. Dyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 12, 1934, Serial No. 734,740
Renewed October 24, 1938
26 Claims. (Cl. 200—52)



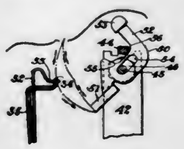
1. A switch for controlling a circuit comprising a fixed contact, a rotatably mounted carrier plate, a movable contact mounted thereon, means for normally holding said carrier plate in such position that the movable contact lies in the same plane as the fixed contact, means for rotating the carrier plate to bring said contacts into engagement in order to close said circuit and means for moving said carrier plate and the movable contact supported thereby bodily in a direction substantially normal to the surface of the fixed contact to open said switch so as to break the circuit.

2,167,647
GRINDING MACHINE
Victor W. Gideon, Chicago, Ill., assignor to Boyar-Schultz Corporation, Chicago, Ill., a corporation of Illinois
Application April 29, 1938, Serial No. 204,929
6 Claims. (Cl. 51—34)



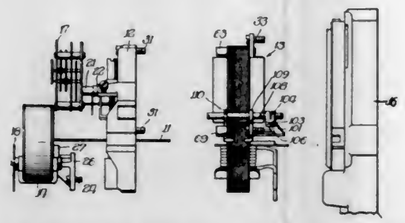
6. A grinding machine of the class described comprising a housing open at its bottom, a grinding wheel spindle and a supporting structure therefor, a driving motor and driving connection means operated thereby for effecting rotation of and axial movement of the spindle, and a supporting frame on which said spindle structure, said driving motor and driving connection are mounted to form a unitary assembly therewith adapted for insertion into said housing through the bottom thereof, said housing having supporting means to which said supporting frame may be detachably secured, the top of said housing having an opening for receiving the upper end of the spindle, and a work supporting table mounted on said housing, said housing completely enclosing said unitary assembly.

2,167,648
ELECTRIC SWITCH
Albert E. Grant, New York, N. Y., assignor, by direct and mesne assignments, to Albert T. Otto & Sons, Inc., New York, N. Y., trustee
Application October 25, 1935, Serial No. 46,648
6 Claims. (Cl. 200—116)



6. A screw plug of the character described comprising a casing and contacts carried thereby exteriorly thereof, means within the casing connecting said contacts in circuit, said means comprising a thermostat and a switch operable by the thermostat, said switch comprising a pivoting member having a slot formed therein, a support affording an axis on which the slotted portion of the member is slidingly and pivotally mounted, a cam carried by the pivoting member, and a fixed cam riding element for engagement by the cam, said cam being contoured to guide the member in a sliding movement on its axis as it is pivoted thereon, whereby the member is caused to make contact when pivoted in one direction and to avoid contact when reversely pivoted to reset the switch.

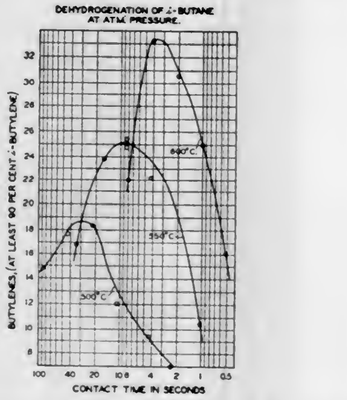
2,167,649
ELECTRIC METER
Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application November 7, 1935, Serial No. 48,713
35 Claims. (Cl. 171—34)



7. A watt-hour meter including a base, a driving unit having a laminated core structure, lugs outstanding from said core structure, rivets rigidly securing said lugs to said core structure, and a meter frame and damping magnet assembly supported by said rivets.

9. A driving element for watt-hour meters including a potential magnet formed of a stack of laminations, a current magnet formed of a stack of laminations, said magnets including yoke portions telescoped one within another, and means for securing said magnets in the telescoped position including a separable key positioned between the telescoping portions and extending into notches in both of said magnets and securing them in exact alinement.

2,167,650
TREATMENT OF HYDROCARBON GASES
Aristid V. Grosse, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application November 11, 1935, Serial No. 49,159
2 Claims. (Cl. 260—683)



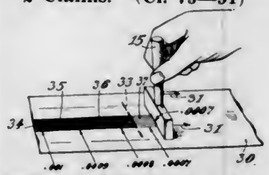
1. A process for converting normally gaseous paraffins into their corresponding olefins which comprises subjecting the paraffins, at from about 400° to 770° C. and for a contact time of from about 0.5 to 6 seconds, to the action of an aluminum oxide catalyst supporting between approximately 2% and 10% by weight of chromium sesquioxide.

2,167,651
MEANS FOR FORMING PLEATS
Alexander McDonald Hess, Jamaica, N. Y.
Application July 1, 1935, Serial No. 29,339
5 Claims. (Cl. 156—10)



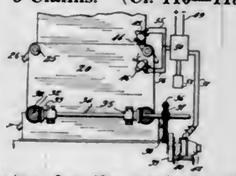
1. The combination of a pleating tape comprising a row of pole or rod openings and a row of snap fastener members, and a fabric about an edge of which said tape is folded with said row of openings on one side of said fabric and said snap fastener members on the other side of said fabric, said fastener members being passed through said fabric for cooperative connection.

2,167,652
METHOD OF TESTING FOR INK REQUIREMENTS
Fred W. Hoch, Forest Hills, N. Y.
Application June 19, 1936, Serial No. 86,203
2 Claims. (Cl. 73—51)



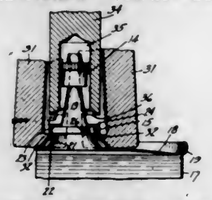
1. The method of ascertaining the coverage of printing ink, which consists in taking a sample of the ink, applying the ink without pressure in separated film layers, each of different and determinable thickness on a trial sheet, selecting the desired thickness according to color and coverage, and determining the square inch coverage of the selected thickness of ink by dividing the amount of film thickness into a unit of cubical contents of the ink.

2,167,653
MECHANISM FOR CHARGING REFUSE-BURNING FURNACES
Francis C. Holbrook, Brooklyn, and Joseph C. Zengerle, Floral Park, N. Y.
Application February 21, 1935, Serial No. 7,510
5 Claims. (Cl. 110—118)



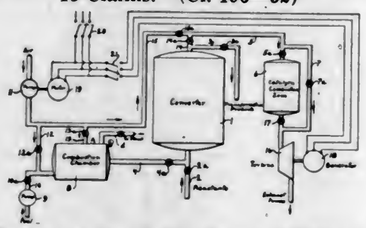
1. Apparatus for the periodic charging of a furnace, comprising a charging chute and delivering downwardly into the furnace chamber, a fixed hopper above and in alinement with the chute, and a normally-shut charging gate mounted in the chute and supporting the weight of the charge in the hopper and openable by swinging downwardly for dumping each charge into the furnace; and means for opening the gate for each charging operation and thereupon closing it, comprising an electric motor with driven connection for lowering and lifting the gate, a limit means having connections operated by the movement of the gate to extreme position and adapted to render the motor inoperative, and means to restart the motor.

2,167,654
METHOD OF SECURING SOFT METAL SPOUTS TO CONTAINERS
John M. Hothersall, Brooklyn, N. Y., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application June 23, 1936, Serial No. 86,874
11 Claims. (Cl. 29—148.2)



1. The method of securing a soft metal spout to a container having a shoulder portion adapted to receive a base of the spout, which comprises supporting the base of the spout on the shoulder, and directly engaging and compressing parts of the container adjacent the shoulder into engagement with the base of the spout, and supporting the shoulder against collapse during the compressing operation to reform the spout and to flow the metal of parts of the same into a leak-proof joint with the compressed parts of the container.

2,167,655
PROMOTION OF CHEMICAL REACTIONS
Eugène J. Houdry, Rosemont, and Richard S. Vose, Ridley Park, Pa., assignors, by direct and mesne assignments, to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application January 13, 1936, Serial No. 58,858
15 Claims. (Cl. 196—52)



1. In the contact treatment of reactant fluids involving the use of a bed of solid, porous and incombustible contact material which is maintained within a confined reaction zone and is alternately on-stream to effect the desired treatment of reactants and in regeneration in situ, in which the contact material becomes contaminated with combustible deposits during the on-stream period, which are removed therefrom during the period of regeneration, the process of regeneration which comprises feeding a gaseous regenerating mixture containing oxygen and products of combustion under a superatmospheric pressure into said contact material, said superatmospheric pressure being appreciably in excess of that needed to force said regenerating mixture through said contact material and sufficient so that the products of regeneration leaving the aforesaid reaction zone are under a substantial superatmospheric pressure, controlling the proportion of oxygen to products of combustion in said gaseous mixture to control its oxidizing potential and consequently the regeneration temperature within said contact material, permitting the escape of gaseous products of regeneration from said contact material, passing such gaseous products through a combustion zone containing catalyst capable of effecting the formation of CO_2 from the CO contained in the gaseous products, further to increase their energy, and utilizing the energy of said gaseous products in the generation of power.

2,167,656
METAL WEATHER STRIPPING
Fred W. Kammerer, New York, N. Y.
Application March 18, 1937, Serial No. 131,698
10 Claims. (Cl. 20—69)

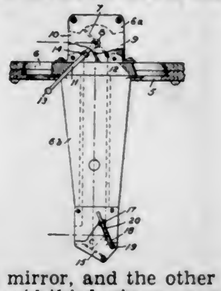


1. Weather-stripping for the sides of vertically sliding window sashes comprising a rigid extruded metal section adapted to be secured to the window frame and provided with a longitudinally extending flange projecting toward the adjacent window sash, and a second rigid extruded metal section secured along the side of the sash and having an integral, rigid flange shaped to provide a groove of greater width than the flange of the first mentioned section and embracing the same loosely to permit free transverse and longitudinal sliding movement with respect thereto, said groove having parallel side walls adjacent the open end thereof and a cross-sectionally rounded enlargement at the opposite end, and a body of resilient packing material substantially filling said enlargement for sealing contact with said flange.

2,167,657
PERISCOPE
James C. Karnes, Buffalo, N. Y.
Application May 18, 1938, Serial No. 208,564
1 Claim. (Cl. 88—68)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

In a periscope, a casing, means for mounting the casing intermediate its ends for axial rotation, a first mirror in one end of the casing having reflecting surfaces on its opposite sides and pivotally mounted for selective movement into two positions of adjustment to receive images from opposite directions and reflect them in the same direction, a second mirror fixed in the other end of the casing and arranged to receive reflections from the first mirror in one of its positions of adjustment, and a third mirror pivotally mounted in the casing adjacent the second mirror for selective movement into two positions of adjustment, one of the positions being in parallelism with the first mirror in one of the positions of

adjustment of said first mirror to directly receive reflections from said first mirror and block



off the second mirror, and the other position of adjustment of said third mirror arranged for receiving reflections from the second mirror.

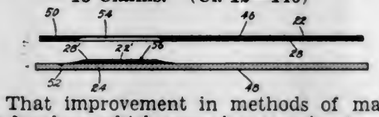
2,167,658

MANUFACTURE OF SHOES

Harry C. King, Quincy, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application November 23, 1936, Serial No. 112,229

15 Claims. (Cl. 12—146)



1. That improvement in methods of making soles for shoes which comprises securing two sole blanks together with a layer of cushioning material between them, thereby providing a unitary blank of laminated formation, and separating the blank into a sole member having an opening in its forepart and another sole member having a forepart projecting complemental to said opening by splitting said blank in a plane located in a predetermined position at one side of the layer of cushioning material except at the forepart of the blank, the split at said forepart passing through the layer of cushioning material and thereby producing a pair of flexible sole members each of which is composed partly of material for cushioning the foot.

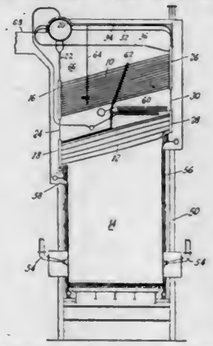
2,167,659

FLUID HEAT EXCHANGE APPARATUS

Lambert Kooistra, Wadsworth, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey

Application May 19, 1937, Serial No. 143,437

3 Claims. (Cl. 122—303)



1. In a water tube steam boiler, a steam and water separator, uptake headers, downtake headers, horizontally inclined steam generating tubes connecting the uptake headers with the downtake headers, an upper set of horizontal circulators connecting the separator with the uptake headers, spaced downtake nipples connecting the downtake headers with the water space of the separator, and a set of lower horizontal circulators leading from the uptake headers to the separator and connected to the latter at positions on the separator opposite the discharge ends of the upper circulators, the lower horizontal circulators also extending transversely of the separator at positions below the latter and between said nipples.

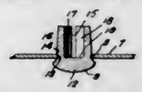
2,167,660

ILLUMINATED SIGN

Louis L. Lauve, Jr., Baltimore, Md.

Application October 5, 1938, Serial No. 233,467

7 Claims. (Cl. 40—133)



1. A light ray transmitting and diffusing element made of a flexible light transmitting material, comprising a convex head, a stem extending from said head having a slit extending from the outer end of said stem to a point adjacent the base of the head.

2,167,661

NITROGEN-HALOGEN ORGANIC BODIES AND PROCESS OF MAKING SAME

Leon Lilienfeld, Vienna, Austria; Paul Abel, Vienna, Austria (Germany), or in the case of his inability to act, Emerich Hunna, Vienna, Austria (Germany), executors, and Antonette Lilienfeld, Vienna, Austria (Germany), sole heir of Leon Lilienfeld, deceased

No Drawing. Application April 1, 1937, Serial No. 134,426. In Great Britain July 4, 1931

29 Claims. (Cl. 260—584)

20. Water-soluble organic substances of viscous-oily to resinous consistency, containing in an aliphatic chain, halogen, nitrogen and oxygen, all attached to carbon atoms of said aliphatic chain, of which substituents not more than two are attached to the same carbon atom, and which substances are reaction products of ammonia on a dihalogenhydrin of glycerol.

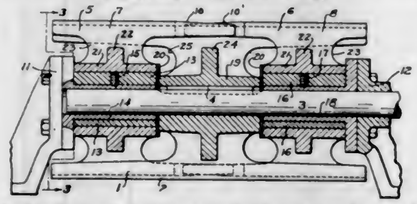
2,167,662

REEL

Louis E. Lovett, Cleveland Heights, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware

Application April 29, 1936, Serial No. 76,996

12 Claims. (Cl. 242—53)



1. Reel mechanism comprising a reel member made up of longitudinally extending bar members; a plurality of reel members made up of longitudinally extending bar members extending generally longitudinally of and so disposed as to alternate with the bar members of said first-mentioned reel member, said last mentioned reel members being arranged in end-to-end relation; means rotatably mounting said first-mentioned reel member; and means rotatably mounting said last-mentioned reel members so that their axes are mutually non-coincident and are offset from and inclined to the axis of said first-mentioned reel member, whereby thread or the like will be advanced in a series of generally helical turns lengthwise of the reel mechanism as a whole.

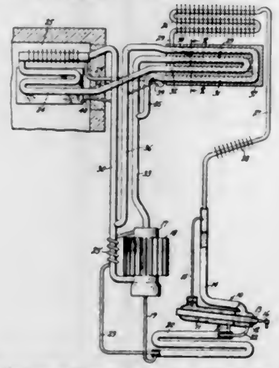
2,167,663

REFRIGERATION

Robert E. Lyford, Torrington, Conn., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware

Application May 8, 1937, Serial No. 141,413

15 Claims. (Cl. 62—119.5)



1. A refrigeration system including a plurality of evaporators, an absorber, a condenser, a generator, members interconnecting said absorber and one of said evaporators for circulation of inert gas therethrough and therebetween, further members forming a path of flow for gas through another of said evaporators, said generator being interconnected with said absorber for circulation of absorption liquid therethrough and therebetween, said condenser being connected to receive vaporous refrigerant fluid from said generator, and members for conducting liquid refrigerant fluid from said condenser to said evaporators, one of said first members being in thermal exchange relation with said second evaporator for heat transfer to said evaporator from gas flowing from said absorber to said first evaporator.

8. In a method of refrigeration making use of evaporation of refrigerant fluid in the presence of inert gas, that improvement which resides in flowing gas from a place of absorption to a plurality of places of evaporation in parallel, conducting the gas to one of said places of evaporation in thermal exchange relation with another of said places of evaporation, conducting liquid refrigerant fluid to said second place of evaporation and from said second place of evaporation to said first place of evaporation.

2,167,664

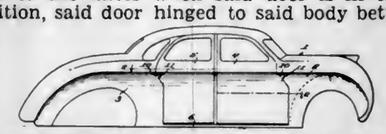
MOTOR VEHICLE CONSTRUCTION

Calvin M. Matthews, Hampton, Va.

Application June 21, 1937, Serial No. 149,459

2 Claims. (Cl. 296—44)

1. In combination with a motor vehicle body, a fender secured on said body and having a section curved outwardly and downwardly relative to the body, a door adjacent said fender and having a section conforming to the contour of said first mentioned section whereby to establish uniformity of contour between said door and fender and present an apparent continuation of the latter when said door is in closed position, said door hinged to said body between



the ends thereof and in proximity to one end whereby to dispose said last mentioned end within said fender, one of said sections formed with a recess and the other of said sections formed with an extension operable within said recess and coacting with the last mentioned end of the door to preclude the formation of a space between the door and fender when the door is in open position.

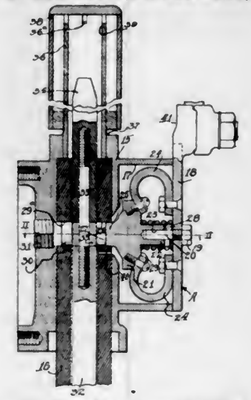
2,167,665

CIRCUIT BREAKER

George A. Matthews, Detroit, Mich., assignor to The Detroit Edison Company, Detroit, Mich., a corporation of New York

Application November 5, 1934, Serial No. 751,511

13 Claims. (Cl. 200—149)



1. A circuit breaker comprising a tubular member of organic material, a rod of similar material mounted for longitudinal movement within said member and having its surface inwardly spaced from the inner wall of said member to form an arc-extinguishing chamber, cooperative electrical contacts respectively associated with said member and rod and adapted to open and close an electrical circuit in response to the movement of said rod, and means responsive to a circuit-opening movement of said rod for decreasing pressure at one end of said tube.

2,167,666

STRUCTURAL MEMBER

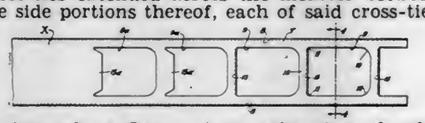
Richard T. McGee, Wheeling, W. Va., assignor to The Consolidated Expanded Metal Companies, Wheeling, W. Va., a corporation of West Virginia

Application March 21, 1936, Serial No. 70,016

5 Claims. (Cl. 72—115)

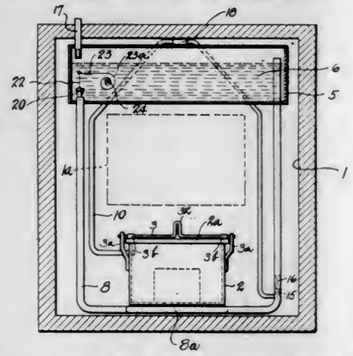
1. A structural member of the character described, said member being of channel shape and

having apertures in the web thereof providing cross-ties extended across the member between the side portions thereof, each of said cross-ties



having a bent flange at one edge thereof only, said flange being of substantial width as compared to the width of the cross-tie.

2,167,667
MEANS FOR REFRIGERATION
Maurice H. McMechan, Yakima, Wash., assignor to Western Products Company, Yakima, Wash., a corporation of Washington
Application December 27, 1937, Serial No. 181,920
11 Claims. (Cl. 62—91.5)

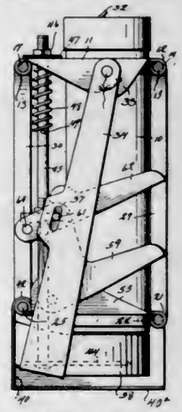


1. A refrigerating device comprising a cooling enclosure, a gas-tight container for an evaporable refrigerant, a gas vented circuit containing a liquid refrigerant; said circuit passing within the said enclosure and in close proximity to the solidified refrigerant for cooling thereby, a gas discharge pipe leading from the container and into said liquid circuit for a discharge of gas from said container under pressure into the liquid whereby to cause circulation thereof about its circuit and means operated by gas vented from the circuit to create a flow of air.

2,167,668
UNIT AND MULTIPLE DELIVERY COIN HOLDER
Thomas O. Miller, San Antonio, Tex.
Application August 6, 1936, Serial No. 94,677
21 Claims. (Cl. 133—5)

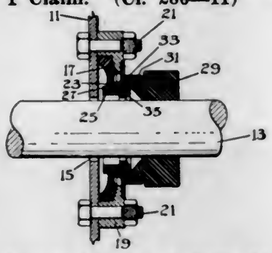
1. A coin delivery mechanism, including a magazine open at the lower end, an open-bottomed ejector normally in register with the magazine and receiving coins therefrom, said ejector constructed to hold a predetermined maximum number of coins, a coin support carried by the magazine, the ejector and magazine being mounted, one for movement relative to the other into or out of register with each other, manually operable means for shifting the magazine and ejector relative to each other into and out of registry, and key actuated means for shifting the coin support upward within the ejector to reduce the effective depth of the ejector and to reduce the number of coins supported therein.

11. In a coin delivery mechanism, a vertical coin magazine, and an upper plate and a lower plate each having an aperture through which the magazine extends, each of said plates having a slot extending from one edge into the magazine aperture, an upper pair of bolts operatively engaging the upper plate, one of said bolts passing through the slots in the upper plate whereby the upper plate may be clamped upon the magazine and bolts passing through the lower plate, one of said bolts extending through the slotted margin of the second named plate whereby that plate may be clamped upon the magazine, frame members connecting the upper pair of bolts with the



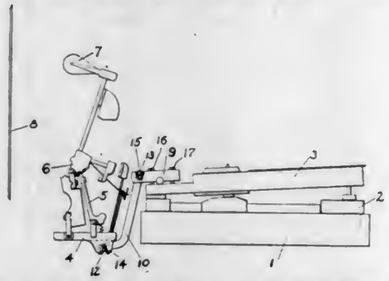
lower pair of bolts and connecting each pair of bolts, an ejector associated with the magazine and normally disposed beneath and in registry with the lower end of the corresponding magazine and designed to contain a predetermined number of coins, and means carried by the plates for shifting the ejector into or out of registry with the lower end of the magazine, the magazine being adjustable through the plates relative to the ejector to compensate for variations in the thickness of the coins.

2,167,669
SEALING STRUCTURE
Lee B. Molyneux, Buffalo, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application May 4, 1937, Serial No. 140,657
1 Claim. (Cl. 286—11)



A sealing structure for a container wall having an opening through which a rotatable shaft extends, comprising a flexible self-sustaining apertured diaphragm of rubber or like material, having its outer edge clamped against the side of the container in fluid-tight relation, a stationary friction ring engaging the inner edge of said diaphragm, a resilient ring tightly fitting on said shaft for rotation therewith and having a flange supporting a rotatable friction ring for contact with said stationary friction ring, said resilient ring fitting said shaft in liquid-tight relationship and being capable of adjustment along the shaft during rotation thereof.

2,167,670
PIANO ACTION CONNECTION
Arthur H. Morse, Cincinnati, Ohio, assignor to The Baldwin Company, Cincinnati, Ohio
Application June 17, 1936, Serial No. 85,754
4 Claims. (Cl. 84—240)
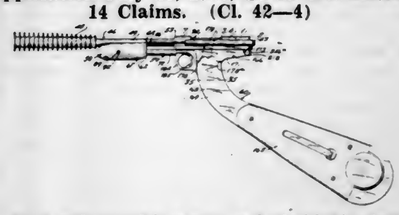


1. In a piano, a horizontally disposed, forwardly-rearwardly extending key provided with regulating means on a rear portion thereof, the said regulating means comprising a rocker arm on the upper surface of said key, the said rocker arm extending rearwardly beyond the rear end of said key and being provided in its overhanging portion with two slots, one of said slots being a transverse slot in the upper surface of said arm and the other of said slots being a vertical slot in the rear end of said arm, the said vertical slot extending forwardly to intersect the said transverse slot; an action including below said key a rearwardly-forwardly extending wippen provided in its lower surface with a transverse slot and a longitudinal slot, the said longitudinal slot intersecting the said transverse slot; and a link for connecting said key and said wippen comprising a bar having two substantially parallel pins, one near each end thereof, the said pins extending outwardly from said bar substantially at right angles thereto, one of said pins engaging said rocker arm in said transverse slot therein, the said bar passing through the vertical slot in said arm, and the second of said pins engaging said wippen in the said transverse slot therein, a portion of said bar immediate to said second pin being disposed within the said longitudinal slot in said wippen.

2,167,671
CORSAGE PIN
Jane Moss, New York, N. Y.
Application December 18, 1937, Serial No. 180,510
2 Claims. (Cl. 24—6)



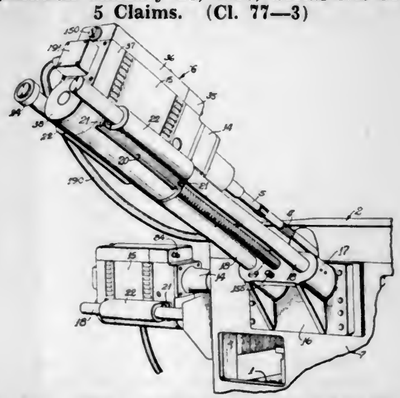
1. A device for holding corsage bouquets, comprising a single bar, spaced rearwardly extending projections on the back of said bar and near the opposite ends of the bar, a strip of elastic material connected with and supported by said spaced projections at the back of said bar and a pin located at the back of said elastic strip, pivotally engaged at one end with one of said projections and releasably engageable at the opposite end with the other of said relatively spaced projections and thereby positioned in cooperative bouquet clasping relation to the elastic strip located and supported in front of the same.

2,167,672
SUB-MACHINE GUN
Louis Nolan Nomar, Charleston, W. Va.
Application July 23, 1937, Serial No. 155,337
14 Claims. (Cl. 42—4)



1. In a sub-machine gun, a lock-block element including a depressible guided body part pivotally supported at its rear end and provided with a spring controlled latching member mounted in, pivoted to and extending forwardly from the forward end of said body part, said member being formed at its forward end with an upstanding sear for releasably holding a cartridge firing means from action, and said body part having its sides provided with guides therefor.

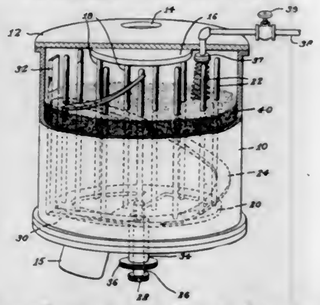
2,167,673
MACHINE TOOL
Alexander Oberhoffken, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois
Application January 13, 1936, Serial No. 58,854
5 Claims. (Cl. 77—3)



1. A machine tool having, in combination, a tool head having at least one rotary spindle projecting therefrom for driving a tool to operate upon a work piece, a prime mover mounted on said head and having a driving connection extending to said spindle, there being a plurality of open ended parallel bores on said head extending parallel to the axes of said spindle and providing internal cylindrical way surfaces, a rigid box-like fixture frame having a base and upstanding side portions rigidly connected at their upper ends, said fixture being arranged to support said work piece in a position to be operated upon, means providing a cantilever mounting for supporting said tool head solely from said fixture frame comprising a plurality of elongated rods rigidly attached at one of their ends to said fixture frame and projecting in spaced parallel relation away from the frame with their axes spaced to coincide with the axes of said bores, the peripheral surfaces of said rods constituting cylindrical slideways snugly received in said bores, and means for reciprocating said tool head along said

rods including power driven mechanism arranged to apply an actuating force to said head along a line disposed substantially in a plane including the axes of said rods.

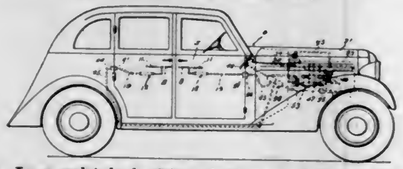
2,167,674
MANUFACTURE OF CARBON BLACK
Harold H. Offutt, Winchester, Mass., assignor to Godfrey L. Cabot, Inc., Boston, Mass., a corporation of Massachusetts
Refiled for abandoned application Serial No. 730,059, June 11, 1934. This application August 10, 1937, Serial No. 158,355
5 Claims. (Cl. 134—60)



1. The method of compacting flocculent carbon black, which consists in spraying oil upon the surface of a mass thereof, continuing the spraying step until a weight of oil has been added not less than 66% nor more than 200% of the weight of the dry carbon black treated, and simultaneously slowly stirring the mass to expose fresh surfaces to the oil spray, thereby producing directly from the treated mass relatively dense, completely dispersible granular aggregates capable of being transported in bulk without dusty disintegration.

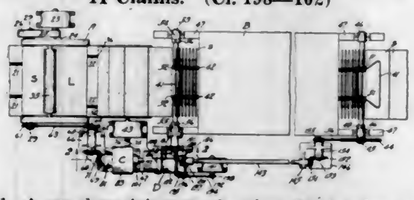
5. As a new product of manufacture, a dustless mass of granular carbon black and oil, the granules being sufficiently tenacious to withstand transportation in bulk, having an apparent density of at least twelve pounds per cubic foot and substantially free from indispersible carbon black aggregates, and having a composition of about two parts oil to one part carbon black.

2,167,675
MOTOR VEHICLE DOOR LOCK
Joseph Palmer, New Rochelle, N. Y.
Application May 9, 1938, Serial No. 206,908
4 Claims. (Cl. 180—82)



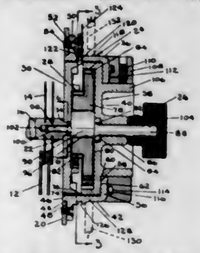
1. In a vehicle locking device, and in combination with the doors of the vehicle, an internal combustion engine having an intake manifold, and a butterfly valve control lever, locking bolts slidably mounted on the doors, vacuum responsive devices connected with said bolts in a manner to act thereon for projecting the bolts to a door-locking position, a spring-projected latch bar mounted in operative position to the butterfly valve control lever and normally projected by said spring into engagement with the lever for releasably securing the latter locked against movement, a vacuum responsive device connected with said latch bar in a manner to act on the latch bar to retract the latter out of engagement with said lever and in opposition to said spring, and conduit means connecting all of said vacuum responsive devices with said intake manifold.

2,167,676
MECHANISM FOR SYNCHRONIZING TANDEM MACHINES
William Pechy, Elizabeth, N. J., assignor to American Can Company, New York, N. Y., a corporation of New Jersey
Application September 4, 1935, Serial No. 39,181
11 Claims. (Cl. 198—102)



1. A synchronizing mechanism for tandem machines operating upon articles of manufacture, comprising in combination: means for advancing articles in one of said machines, means for advancing articles in another of said machines, a common driving means for said advancing means comprising a prime mover and gearing connected to both of said machines, electro-mechanical detectors associated with both of said advancing means and at the receiving point of said other machine to detect disturbance of timed relation between said advancing means, synchronized means for restoring said timed relation, and means operatively connected to said gearing for driving one of said advancing means while said prime mover is at rest.

2,167,677
REDUCTION DRIVE FOR VARIABLE CONDENSERS
Valentin Petersen, West New Brighton, N. Y.
Application July 9, 1934, Serial No. 734,423
17 Claims. (Cl. 74—10)



1. A reduction drive for variable radio-tuning apparatus including a substantially stationary portion, a portion movable relatively to the stationary portion, and a shaft for the movable portion of the tuning apparatus; said drive including a pair of manipulators, and means interconnecting the manipulators and the shaft; the interconnecting means comprising elements including a gear and an annular gear which move relatively to each other when one of the manipulators is the force-transmitting agent but lock against movement relative to each other when force is applied to the other manipulator; said other manipulator normally providing means for retaining one of the elements stationary with relation to the stationary portion.

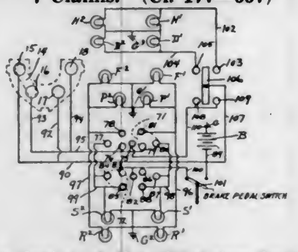
2,167,678
SOLDER
Giorgio Purkardhofer and Gualtiero Battilana, Trieste, Italy, assignors, by direct and mesne assignments, of two-thirds to Orestes De Martini, New York, N. Y., and one-third to Matthew Palisca, Jamaica, N. Y.
No Drawing. Application January 18, 1938, Serial No. 185,550. In Italy January 20, 1937
1 Claim. (Cl. 75—134)

Metallic alloy suitable for the soldering of aluminium and light alloys in general, both together as well as with other metals and their alloys, consisting of the following percentage of metals, viz: bismuth 10%, zinc 42%, tin 22%, lead 23%, cadmium 2.95%, silver 0.05%.

2,167,679
EXPLOSIVE
William H. Rinkenbach and Henry A. Aaronson, Dover, N. J.
No Drawing. Application August 5, 1938, Serial No. 223,224
1 Claim. (Cl. 52—5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

An explosive composition comprising dinitroethyleneurea.

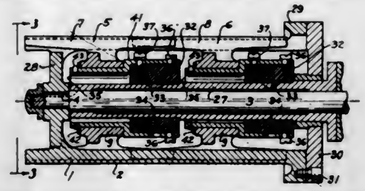
2,167,680
VEHICLE SIGNAL APPARATUS
Palmer W. Rom, Cudahy, Wis.
Application May 29, 1936, Serial No. 82,439
7 Claims. (Cl. 177—337)



6. In a device of the character described, the combination with the suction intake of the engine of a vehicle, signal lights for said vehicle to indicate a turn, energizing means for said lights, selective circuit connections between said energizing means and said lights, of a motor operable through connection with said suction intake and having an actuating shaft, a contact moved by said shaft, fixed contacts cooperating with said first named contact to intermittently close the selected circuit connections to the selected signal, manually controlled means for connecting said motor with the suction intake for starting said motor, and means operable on the turning of the vehicle for shutting off the suction intake connection with said motor for stopping said motor.

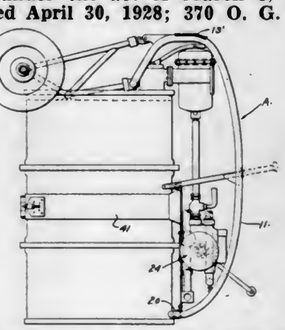
2,167,681
CANTILEVER WINDING REEL
Fred J. Samerdyke, Rocky River, Ohio, assignor to Industrial Rayon Corporation, Cleveland, Ohio, a corporation of Delaware
Application October 17, 1938, Serial No. 235,326
11 Claims. (Cl. 242—53)

1. A thread-advancing reel of cantilever form comprising a frame member supported from one end only and extending longitudinally of the reel for a substantial length thereof; a reel member rotatably mounted about said frame member embodying a plurality of circumferentially spaced, longitudinally extending bar members; and a plurality of reel members, each embodying a plurality of circumferentially spaced, longitudinally extending bar members alternating with the bar members of said first-mentioned reel member,



rotatably mounted on said frame member in end-to-end relation about axes which are mutually non-coincident and are inclined to the axis of said first-mentioned reel member, whereby during rotation of said reel members about their respective axes thread or the like wound about said reel will be advanced lengthwise of the reel from the supported to the unsupported end thereof.

2,167,682
PORTABLE FLUID SEGREGATING APPARATUS
David Samiran, Dayton, Ohio
Application January 8, 1937, Serial No. 119,643
17 Claims. (Cl. 221—67)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

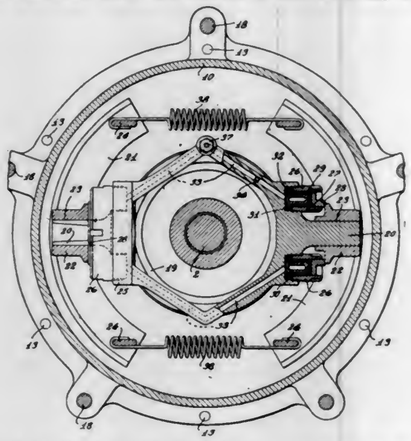


1. A device of the character described, comprising, a normally horizontally disposed load supporting portion and a substantially vertically arranged rocker portion extending above and below the point of support of said supporting portion, said rocker portion having a curvature such that said device and the load to be carried thereby will produce moments of inertia of sufficient magnitude, when the device and the load is tilted forward from an inverted position through the center of balance, as to be capable of lifting said load during the rocking movement and bring the load into an elevated upright position.

2,167,683
HYDROSTATIC BRAKE
Claude Sauzedde, Detroit, Mich., assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich., a corporation of Michigan
Application November 18, 1936, Serial No. 111,362
14 Claims. (Cl. 188—152)

1. In a hydrostatic brake, a rotatable brake drum, a stationary spider, guide arms on said spider and extending radially with respect there-

to, a brake-shoe unit individual to each guide arm and each supported by its arm to move relative to the arm in the direction of the arm axis, an annular pressure chamber surrounding each

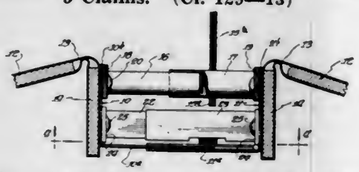


guide arm, a piston in each chamber and engaging the brake shoe unit operated thereby, and means for conveying fluid under pressure to said chamber.

2,167,684
ALLOY
Charles B. Sawyer, Cleveland Heights, Ohio, assignor to The Brush Beryllium Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application February 15, 1937, Serial No. 125,817
4 Claims. (Cl. 75—159)

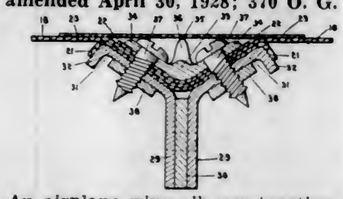
1. A copper base alloy containing beryllium in an amount within the range of upwards of 2% to 6% and which would cause the presence of the known beryllium-copper beta equilibrium phase if the binary combination is quenched from a temperature of 800° C.; nickel in an amount within the range of upwards of 1% to 8% and which is effective substantially to suppress the said beta phase; and the remainder substantially all copper.

2,167,685
LOOSE LEAF BINDER
Lawrence F. Scherzinger, Chicago, Ill.
Application April 30, 1938, Serial No. 205,165
5 Claims. (Cl. 129—13)



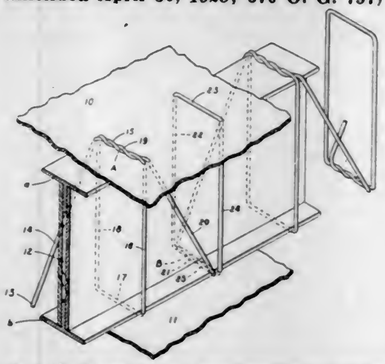
1. In a loose leaf binder, the combination of two back members relatively slidable to bind together varying numbers of leaves and mechanism for securing said members in leaf binding relation comprising housing members carried by said respective back members and relatively slidable one within the other, a guide element on one of the housing members and disposed with respect to an adjacent portion of the other housing member so as to provide therebetween a V-shaped guideway, a spring pressed sliding element carried by one of the housing members, a locking element on said sliding element and positioned in said guideway, and manually operated means for retracting said sliding element.

2,167,686
AIRPLANE RIB
Karl Schmidt, United States Navy
Application March 9, 1938, Serial No. 194,886
6 Claims. (Cl. 244—132)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



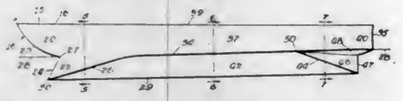
1. An airplane wing rib construction comprising a capstrip having an inwardly extending web portion and an outer channel portion of substantially V-shape in cross-section, and a load-strip of corresponding cross-sectional shape attached to said capstrip for flexing a fabric wing covering into said channel portion and securing it under tension therein, the channel portion of said load-strip having a rib extending longitudinally therealong.

2,167,687
LACING ATTACHMENT FOR AIRPLANE COVER FABRIC
Karl Schmidt, United States Navy
Application March 9, 1938, Serial No. 194,888
4 Claims. (Cl. 244—132)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



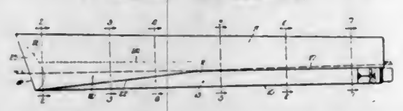
1. An airplane wing construction comprising a rib member having upper and lower capstrips connected together; upper and lower fabric coverings supported by said rib; and a lacing cord for securing said coverings to said capstrips; said lacing cord passing continuously around said capstrips and through said upper and lower coverings in a series of spaced loops, the portions of said cord connecting said loops being twisted around certain of the transverse portions of said loops to form an elongated interlock for and between adjacent loops, whereby slippage and elongation of the cord is reduced and friction between the interlocking portions of said cord and between said cord and said coverings is distributed throughout the width of said capstrip.

2,167,688
HULL FOR BOATS AND SHIPS
Andrew A. Scowley, Ingleside, Ill.
Application July 15, 1935, Serial No. 31,300
Renewed October 27, 1938
4 Claims. (Cl. 114—56)



1. In a hull, a forebody, an afterbody, said forebody being provided with side cutwaters, one on each side of said forebody, said hull having a chine on each side thereof, said forebody including a bow, said bow having a convexo-concave formation, a stem cutwater at the forward end of the said forebody having a forwardly projecting portion, a re-entrant portion and a lower portion, said convexo-concave formation terminating at said stem cutwater, the said bow being inwardly concaved and narrowed from the said side cutwaters, each of said side cutwaters extending in a straight line at an angle from the foremost point of said lower portion of the stem cutwater, and each of said straight angular side cutwaters extending upwardly and aftwardly to the chines on the respective sides of said hull at or adjacent the normal load waterline of said hull.

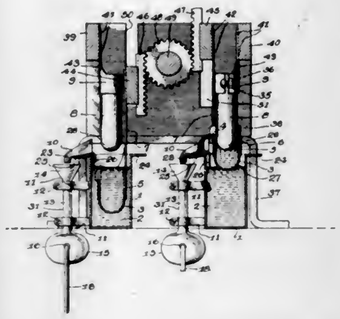
2,167,689
HULL FOR BOATS AND SHIPS
Andrew A. Scowley, Ingleside, Ill.
Application May 28, 1938, Serial No. 210,647
7 Claims. (Cl. 114—56)



1. A ship's hull having a forebody defined by a plurality of surfaces extending into one another, said surfaces comprising two concaved bottom surfaces, two concaved bow surfaces, formed to provide outwardly extending upper and lower lateral edges, two topside surfaces, said bottom surfaces being inclined to one another, the lower edges thereof forming the keel and the forward upper edges thereof extending in straight lines from the foremost point of the keel upwardly, outwardly and aftwardly to points in the ship's sides at the load water line substantially forward of amidship, the lower edges of said two inwardly concaved bow surfaces joining said upper edges of the bottom surfaces and forming two outwardly projecting sidecutwaters, the upper edges of said concaved bow surfaces curving outwardly above the load water line and there joining the lower edges of said topside surfaces whereby said sidecutwaters are normally submerged and act to reduce the wave making resistance of the bow.

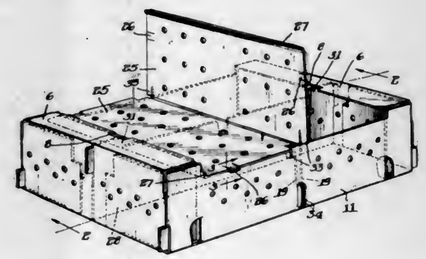
2,167,690
DISPLACEMENT DIPPER PUMP
Neo S. Serinis, Gloucester, N. J., assignor to New Process Rayon, Inc., Gloucester, N. J., a corporation of Delaware
Application June 8, 1938, Serial No. 212,523
6 Claims. (Cl. 221—97)

1. A feeding device for liquid, comprising a reservoir for the liquid, a dipper, means for reciprocating the dipper to alternately submerge it and elevate it, a displacement member, and means for supporting it in cooperative relation



to the dipper, to cause it to displace liquid therefrom.

2,167,691
COVER CONSTRUCTION
Louis A. Shoemaker, Carleton, Mich., and Andrew E. Miller, Terre Haute, Ind.; said Miller assignor to said Shoemaker
Original application June 8, 1936, Serial No. 84,052. Divided and this application August 5, 1937, Serial No. 157,476
4 Claims. (Cl. 229—44)

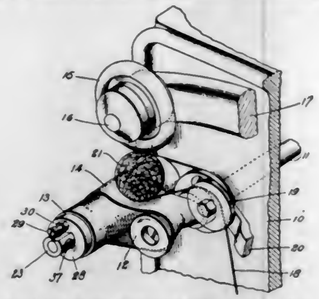


1. In a baby chick box, or box for other purposes, means forming bottom and side and end walls for the body of the box, and a folding cover construction comprising two upwardly opening cover sections, the overhanging edges of the cover sections having corner tabs flush with the said edges of the sections that are depressible downwardly away from each other, at each side of the box, to engage with their inner edges the outer surface of the side wall sections, holding the upper middle portion of the latter against outward displacement, with a space between the two depressed tabs at each side of the box.

2,167,692
WINDING MACHINE
Charles R. Sibley, Marblehead, Mass., assignor to Sibley-Pym Corporation, Lynn, Mass., a corporation of Massachusetts
Application June 19, 1937, Serial No. 149,114
9 Claims. (Cl. 242—3)

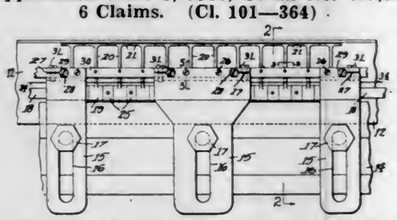
1. A machine for winding golf balls or the like, comprising a pair of spaced rolls for supporting and rotating a core to be wound, said rolls being located partially beneath the core and one of said

rolls being of substantially greater diameter than



the other and having associated means for causing longitudinal movement in itself.

2,167,693
IMPERFECTION DETECTOR
William G. Slattery, Webster, Mass.
Application June 3, 1938, Serial No. 211,628
6 Claims. (Cl. 101—364)



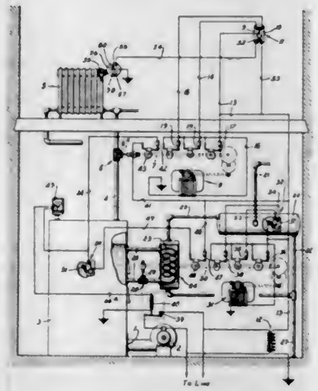
1. The combination with a doctor blade and means for supporting it against a print roller or the like, of a series of contact arms engaging said blade, an electrical contact on each arm, a contact bar extending the length of the blade and insulated from the blade and having a series of contacts, one adjacent to each of the first named contacts, said contact arms, each being movable with a slight motion of the edge of the blade, to engage the respective contacts on the contact bar, and electrical connections between the contact bar and each individual contact on the contact arm to complete an electric circuit when any contact is closed to an alarm device, or the like.

2,167,694
IGNITION APPARATUS FOR INTERNAL COMBUSTION ENGINES
Walter J. Spengler, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application February 27, 1936, Serial No. 66,077
5 Claims. (Cl. 200—31)



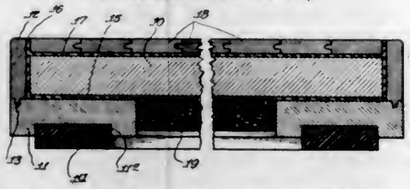
2. In an ignition system for internal combustion engines a timer and distributor unit including a drive shaft, a driven shaft, a breaker cam and a distributor arm mounted on the driven shaft, and automatically variable means for coupling said driving and driven shafts including a pivoted member operable by centrifugal force to advance the driven shaft with respect to the drive shaft, and a U-shaped spring opposing such action having one arm anchored to the pivot of the centrifugal member and the other arm anchored to said member, said spring being longitudinally adjustable to vary its stiffness.

2,167,695
COMBINED BUILDING AND DOMESTIC WATER HEATING SYSTEM
Duncan J. Stewart, Rockford, Ill., assignor, by mesne assignments, to Barber-Colman Company, Rockford, Ill., a corporation of Illinois
Application February 11, 1935, Serial No. 5,915
4 Claims. (Cl. 236—9)



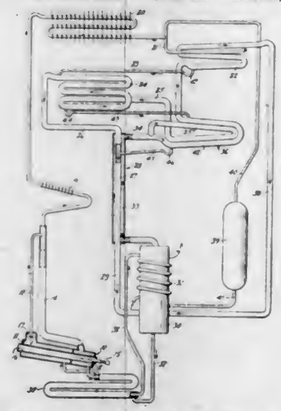
1. A combined building and domestic water heating system comprising, in combination, a steam boiler, a burner for heating the fluid in said boiler, a radiator for delivering heat to the space to be heated arranged to receive steam from said boiler, a valve controlling the flow of steam to said radiator, an operator for said valve, thermostatic means controlling said operator to open and close said valve in response to temperature changes in said space, a domestic water storage tank, a heat exchanger arranged to receive heated liquid from said boiler and circulate the same in heat exchanging relation to the water in said tank, a valve movable between closed and open positions to interrupt and resume the operation of said exchanger in delivering heat to said tank, a power operator for said valve, thermostatic means controlling said last mentioned operator to close and open said valve in response to rises and falls in the temperature of the water in said tank above and below a predetermined value, an electric circuit adapted when closed to initiate and maintain operation of the burner including a switch closed and opened in the movement of said first mentioned valve to open and closed positions respectively and a switch adapted to be closed when the steam pressure in said boiler is below a predetermined value, and a second circuit for initiating and maintaining operation of said burner including a switch closed and opened in the movement of said second valve to open and closed positions respectively, and a thermostatic switch adapted to be opened and closed respectively when the temperature of the boiler water rises above and falls below a predetermined value.

2,167,696
PRACTICE BOARD
Fred W. Tetzman, Chicago, Ill.
Application April 29, 1937, Serial No. 139,827
Renewed October 26, 1938
7 Claims. (Cl. 20—6)



1. A practise board for dancing and like exercise comprising a relatively thick baseboard, a thin layer of cork on the same, a surface layer of hardwood flooring on the cork layer, a marginal cork sheet about the assembly of the baseboard and said layers, a wood frame enclosing said marginal sheet and having bottom extensions under the baseboard, and cork layers between the baseboard and said extensions.

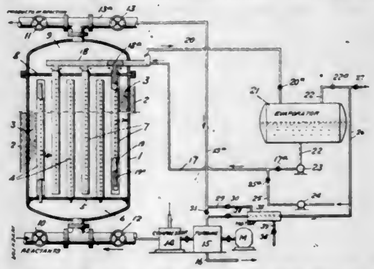
2,167,697
REFRIGERATION
Albert R. Thomas, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application March 22, 1937, Serial No. 132,274
Renewed October 19, 1938
27 Claims. (Cl. 62—119.5)



8. In the art of refrigerating with a system employing inert gas, the improvement which consists in conducting a first stream of inert gas first in the presence of overflow liquid from an evaporator and then into heat exchange relation with liquid flowing to the evaporator, and conducting a second stream of inert gas through the evaporator.

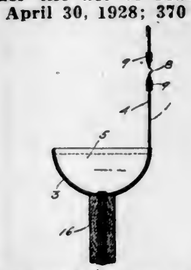
2,167,698
METHOD FOR REGENERATING CATALYTIC MASSES
Richard S. Vose, Ridley Park, Pa., assignor, by mesne assignments, to Houdry Process Corporation, Wilmington, Del., a corporation of Delaware
Application January 17, 1936, Serial No. 59,544
4 Claims. (Cl. 196—52)

2. In the process of catalytically treating petroleum hydrocarbons in which separate catalytic bodies are successively contacted with hydrocarbons in vapor phase with resultant formation thereon of oxidizable carbonaceous contaminants and in which each catalyst body is regenerated, after shutting off the flow of hydrocarbons thereto, by flowing into contact with the catalyst a gas adapted to oxidize said contaminants, the improvement which comprises maintaining the oxidizing gas throughout substantially the said regenerating procedure under a substantially constant superatmospheric pressure substantially in excess of that required to force said gas



through the catalytic zone and sufficiently high, namely, not less than 30 pounds absolute to the square inch, to materially shorten the period of regeneration and so limiting the pressure and rate of flow that the temperature of regeneration will not be so high, namely, in excess of 1150° F., as to impair the activity of the catalyst, and utilizing energy contained in the combustion products formed in said regeneration to effect the compression of fresh oxidizing gas supplied to a catalytic zone during the period of regeneration of the catalyst therein.

2,167,699
STENCIL HAWK
Walker J. Weesner, Indianapolis, Ind.
Application March 8, 1939, Serial No. 260,542
9 Claims. (Cl. 72—128)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

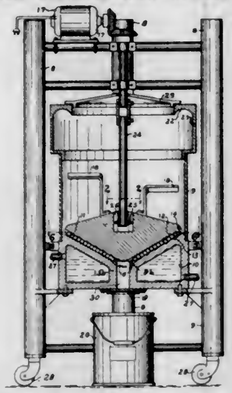


5. A stenciling hawk for use in the application of waterproofing grout to the joints of masonry walls or the like, which includes a grout-holding trough, a back-member extending upwardly from the grout-holding trough, the back-member being provided with a longitudinal open slot adapted to register with a joint in a masonry wall or the like.

2,167,700
PAINT MILL
John D. White, Wichita Falls, Tex.
Application October 15, 1935, Serial No. 45,153
4 Claims. (Cl. 83—22)

2. A mill substantially as specified comprising a centrally depressed bed having a depend-

ing portion in which is formed an outlet, and having an inner shoulder adjacent and surrounding the outlet from which a plurality of openings extend and connect with the outlet, a cut off operating across the outlet, a hopper projecting from the bed and provided with a combined splash arrester and deflector, a tapering

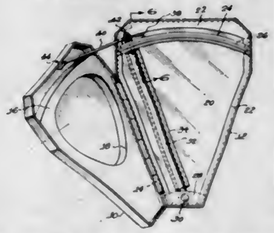


rotary pressure member having an outer shoulder, mobile triturating elements between the bed and pressure member and confined between the shoulders thereof, means for rotating said pressure member, agitators carried by the pressure member, and a drive shaft connected with the pressure member by an approximate universal joint.

2,167,701
METHOD OF PRODUCING ALUMINUM TREATED ARTICLES OF IRON
Marshall G. Whitfield and Victor Sheshunoff, Knoxville, Tenn., assignors to Reynolds Metals Company, New York, N. Y., a corporation of Delaware
No Drawing. Application September 21, 1936, Serial No. 101,892
7 Claims. (Cl. 148—7)

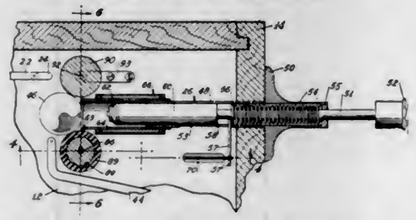
1. The method of treating ferrous article with aluminum which includes the steps of thoroughly cleaning the surface of the article, immersing the cleaned article in a bath of molten aluminum, and then heating the coated article in the open air to to a temperature above the melting point of aluminum until no molten aluminum can be observed on the surface of the article.

2,167,702
VANITY CASE
Floyd M. Williamson, Detroit, Mich.
Application July 11, 1938, Serial No. 218,511
11 Claims. (Cl. 132—83)



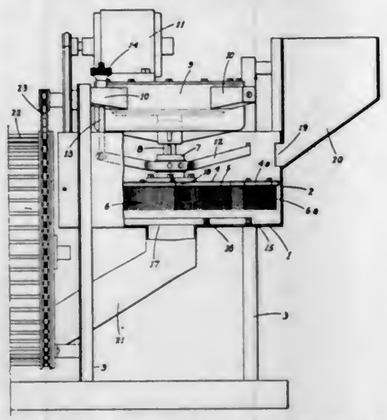
1. In a vanity case having a pair of hinged casings, a mirror secured in and against displacement from one of said casings, a wiper element engaging the face of said mirror and being pivoted at one end to said casing, and means connected to the other end of said element and actuated by the relative movement of said casings for moving said element in an arcuate path over the face of said mirror.

2,167,703
GAME APPARATUS
Irven H. Wilsey, Chicago, Ill., assignor of forty-five per cent to John H. Sharp, and ten per cent to E. W. Hibbard, both of Chicago, Ill.
Application September 14, 1936, Serial No. 100,657
7 Claims. (Cl. 273—129)



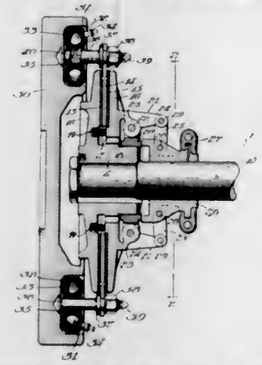
5. In a device of the class described, a ball projector including a projecting plunger, means for positioning a ball in position to be struck by said plunger, power-driven means arranged for engagement by a ball positioned as aforesaid for imparting a spinning motion to said ball, and control mechanism coacting with said plunger for energizing and deenergizing said power-driven means.

2,167,704
NUT HULLER
W. Charles Anderson, Linden, Calif.
Application May 10, 1937, Serial No. 141,594
10 Claims. (Cl. 83—37)



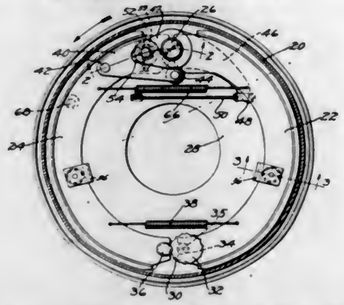
1. A walnut huller comprising a hulling chamber having a floor, and an upstanding circular band about the floor, a rotary brush turnably mounted in the chamber and disposed with a vertical axis, the brush having a top disc substantially the diameter of the band disposed below the top of the same; the floor having means cooperating with the brush to hull nuts, and means to feed nuts onto the disc whereby with the rotation of the same the nuts will be thrown centrifugally toward the band; there being an opening to provide for the delivery of such centrifugally thrown nuts from above the disc to the hulling area below the same.

2,167,705
CLUTCH MECHANISM
Percy H. Batten, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application March 23, 1936, Serial No. 70,273
15 Claims. (Cl. 192—55)



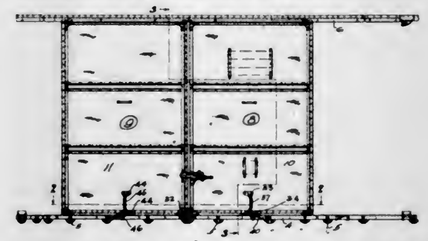
1. In clutch construction, the combination of a clutch plate, a pair of clamping disks located on opposite sides of the plate and adapted to grippingly engage therewith, the plate and disks forming part of a clutch, one of the disks having a hub for fixed attachment to a shaft constituting one of the elements interconnected by the clutch and the other disk being rotatably connected to the hub and movable axially relative thereto, a rotary part constituting the other element interconnected by the clutch and including a plurality of circumferentially spaced pockets in one face thereof, and means for drivably connecting the plate and rotary part comprising a cushion member positioned in each socket and a pin mounted in each member and additionally supported in the plate.

2,167,706
BRAKE
Edward H. Berno, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application July 28, 1932, Serial No. 625,433
20 Claims. (Cl. 188—78)



1. A brake comprising a drum, a single anchor therein, a friction shoe having separable ends engaging said anchor, adjacent portions of said ends having edges inclined from a radial direction, a roller adapted to move radially between said inclined edges to spread said shoes, and an actuating lever pivoted on said anchor and having a substantially spiral slot engaging said roller, to transmit radial movement thereto upon rotation of said lever.

2,167,707
SLIDING DOOR EQUIPMENT
Edwin G. Busse, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application December 23, 1936, Serial No. 117,329
13 Claims. (Cl. 189—46)



1. In a holding device for a horizontally sliding door or the like, the latch member having a stop engaging portion disposed vertically and having a bearing portion inclined to the vertical and in the plane of the door movement, and a bracket structure for mounting said latch member and providing a guide inclined to the vertical and in said plane for engagement with said bearing portion of said latch member.

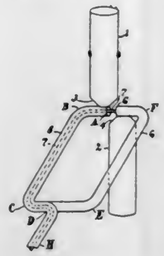
2,167,708
PROCESS OF OXIDIZING AMMONIA
Fred E. Carter, Maplewood, N. J., Stanley L. Handforth, Gordon Heights, Del., and William E. Kirst, Woodbury, N. J., assignors of one-half to E. I. du Pont de Nemours & Company, Inc., Wilmington, Del., a corporation of Delaware, and one-half to Baker and Company, Inc., Newark, N. J., a corporation of New Jersey
No Drawing. Continuation of application Serial No. 517,628, February 21, 1931. This application September 25, 1936, Serial No. 102,586
3 Claims. (Cl. 23—162)

1. A process of oxidizing ammonia to oxides of nitrogen by means of a catalyst comprising platinum metal alloyed with a metal taken from the group consisting of copper and silver.

2,167,709
WIRELESS AERIAL SYSTEM
Edward Cecil Cork, Ealing, London, and Joseph Lade Pawsey, Hillingdon, England, assignors to Electric & Musical Industries Limited, Middlesex, England, a company of Great Britain
Application March 15, 1937, Serial No. 130,880
In Great Britain March 17, 1936
5 Claims. (Cl. 250—33)

1. An aerial system comprising a dipole aerial the elements of which have a large surface area, a feeder for said aerial including a conductor and a conducting sheath surrounding said conductor, an auxiliary conductor associated with said sheath for preventing currents of the operating frequency from flowing over the outer surface of said sheath, said auxiliary conductor being arranged

for the greatest portion of its length parallel to said sheath and having a length substantially an odd integral multiple of a quarter of the wave length at which the system is arranged to operate, one end of said auxiliary conductor being connected to said first mentioned conductor and



positioned closely adjacent the end of said sheath and opposed thereto, the other end being directly connected to the outer surface of said sheath, the adjoining ends of said dipole elements being connected to the opposed ends of said sheath and said auxiliary conductor.

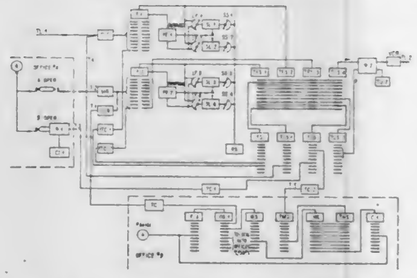
2,167,710

TELEPHONE SYSTEM

Thomas F. Crocker, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware

Application May 14, 1937, Serial No. 142,558

40 Claims. (Cl. 179—27)



1. In a telephone system, an operator's position, a plurality of links controlled from said position by the operator for completing connections, means controlled by the operator for selecting any one of said links for use, each of said links having an answering switch and a calling switch, incoming trunk lines accessible to said answering switches, toll lines accessible to said calling switches, selector switches accessible to said answering switches, means responsive to a call on any one of said trunk lines for marking such trunk line in the banks of said answering switches and for starting the operation of the answering switch of an operator's selected link to find the marked calling trunk line and to connect the trunk line to the operator's position, operator controlled means for operating the calling switch of the selected link to select any one of said toll lines, means controlled at will by the operator for preventing any one of the answering switches from operating to answer calls when a link is selected, and operator controlled means for operating the answering switch of any selected link to function as a calling switch to find an idle one of said selector switches.

2,167,711

ADHESIVE COATED PAPER

Harold R. Dalton, Teaneck, N. J., assignor to Postal Telegraph-Cable Company (New York), New York, N. Y., a corporation of New York

No Drawing. Application April 22, 1936, Serial No. 75,859

8 Claims. (Cl. 91—68)

1. As an article of manufacture adhesive sheet material comprising a base of sheet material, a layer of hygroscopic water-soluble adhesive on said base, and superposed upon said layer a protective coating primarily consisting of an aliphatic amine salt of a fatty acid.

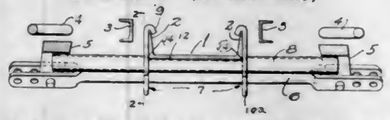
2,167,712

BRAKE GEAR SUPPORT

William H. Fine, Los Angeles, Calif., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois

Application June 20, 1938, Serial No. 214,770

17 Claims. (Cl. 188—210)



1. A railway truck brake gear safety or support device comprising a brake gear engaging bar adapted to extend transversely of a carrier member on a truck part and beyond the same to underlie a brake gear element, and means for attaching said bar to the carrier member comprising a bracket with its ends arranged to hook over the carrier member and with its body intermediate its ends adapted to yield and arranged to be distorted to engage said bar and thrust it against the carrier member.

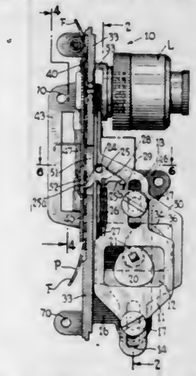
2,167,713

INTERMITTENT FILM FEED AND SHUTTER MECHANISM

Otto W. Githens and George Kende, New York, and Everett M. Porter, Brooklyn, N. Y., assignors, by mesne assignments, to Universal Camera Corporation, New York, N. Y., a corporation of Delaware

Application January 21, 1937, Serial No. 121,488

9 Claims. (Cl. 88—18.4)



1. In a motion picture camera of the character described, intermittent film advancing means comprising a reciprocating shuttle, means for causing said shuttle to reciprocate, a reciprocating shutter, means for causing said shutter to

reciprocate, a film gate, lens mounting means, and a one piece support for said film advancing means, said shuttle operating means, said shutter, said shutter operating means, said film gate and said lens mounting means, said support being designed so as to be removably mounted within said camera.

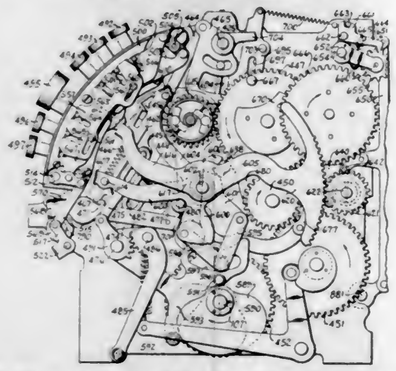
2,167,714

ACCOUNTING MACHINE

Maximilian M. Goldberg, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application August 27, 1931, Serial No. 559,720. Divided and this application August 18, 1934, Serial No. 740,412

28 Claims. (Cl. 235—8)



1. In a machine of the class described, the combination of a motor bar, transaction keys, a total key, a block normally moved by the transaction keys, another block normally moved by the motor bar, and means, released by the total key, to move both blocks.

13. The combination of a total taking control device, a differential mechanism to adjust the total taking control device for adding or total taking operations, manipulative devices movable into position to control the differential mechanism, a stop normally in position to control the differential mechanism, a normally locked main operating mechanism, means, operated by the manipulative devices to release the main operating mechanism, and means operated by the releasing means to move the stop to ineffective position.

2,167,715

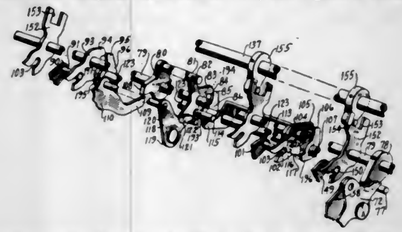
CASH REGISTER

Charles W. Green, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application March 27, 1931, Serial No. 525,630, now Patent No. 2,063,091, dated December 8, 1936. Divided and this application April 10, 1936, Serial No. 73,623

23 Claims. (Cl. 235—8)

1. In a machine of the class described, a main operating mechanism, locking means therefor, a plurality of groups of keys, a shaft, a plurality of pivoted members mounted on said shaft, one for each group of keys, a second shaft having fixed thereto a plurality of detents, one engaging each of said pivoted members, means associated with each group of keys for rocking its pivoted member out of engagement with its detent upon depression of a key in that group, a slotted arm fixed to one end of said last mentioned shaft, a motor bar, spring-urged means engaging said bar, a control shaft, a latch for retaining said control shaft in ineffective position, a projection on said spring-urged means engaging in the slot of said slotted arm and engaging said latch, said parts being so



constructed and arranged that upon depression of a key in each group and of the motor bar, said last mentioned shaft will be rocked by said spring-urged member thereby releasing said latch to release the motor control mechanism for operation.

2,167,716

CHEMICALLY RESISTANT STRUCTURE

Henry Harvey Harkins, River Edge, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application October 12, 1935, Serial No. 44,660

3 Claims. (Cl. 154—43)



1. A chemically resistant construction comprising a supporting wall and a lining of hard rubber separated therefrom by an intermediate bonding and shock absorbing layer of rubber material containing from about twelve to about twenty percent by weight of sulphur based on the rubber content, substantially all of the sulphur of said intermediate layer being chemically combined with the rubber portion.

2,167,717

PENCIL CLIP

Carl C. Harris, Orange, Mass.

Application December 2, 1938, Serial No. 243,561

13 Claims. (Cl. 120—84)



11. A pencil having a U-shaped clip of thin substantially flat resilient material provided with legs of unequal length, means pivotally connecting the shorter leg of the clip near its end to the body of the pencil with the longer loop located in clamping relation to the body of the pencil to engage the wall of the pocket or other support therebetween.

2,167,718

APPARATUS FOR SUBJECTING LIQUIDS TO SILENT ELECTRIC DISCHARGE

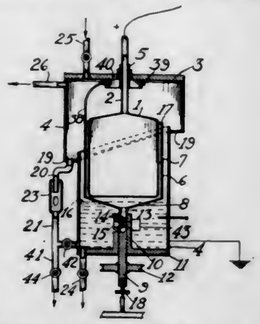
John McArthur Harris, Jr., and Clarence A. Matherne, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware

Application December 26, 1935, Serial No. 56,248

12 Claims. (Cl. 204—31)

1. In an apparatus for subjecting liquids to

silent electric discharge, a cylindrical inner electrode, a cylindrical outer electrode concentric therewith spaced from and encircling said inner electrode forming a uniform annular space between adjacent sides of said cylindrical electrodes, means for supplying a liquid to one end of the annular space between said electrodes to form on the outer electrode a film of thickness less



than the width of said annular space, means for rotating said outer electrode at a speed sufficient to make said liquid film continuous over the inner surface of said outer electrode, means for producing a silent electric discharge between said electrodes, and an annular ring projecting inwardly from the inner surface of said outer electrode at the other end of said annular space to limit the minimum thickness of said liquid film.

2,167,719

P-AMINOBENZENE-SULPHONAMIDE MALTOSIDE AND PROCESS OF PREPARING THE SAME

Harry Klingel and William C. MacLennan, Rensselaer, N. Y., assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application August 6, 1938, Serial No. 223,451
3 Claims. (Cl. 260—211)

1. The p-aminobenzene-sulphonamide maltoside which is freely soluble in cold water and gives a value for alpha (D) in 4% aqueous solution of about +50°–80°.

2,167,720

TORQUE-INDICATING WRENCH

Willard C. Kress, Kenmore, N. Y., assignor to J. H. Williams & Co., Buffalo, N. Y., a corporation of New York

Application March 18, 1937, Serial No. 131,547
1 Claim. (Cl. 265—1)



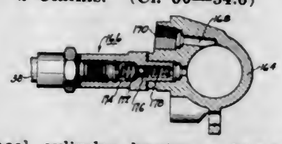
A torque-indicating wrench comprising an operating handle capable of flexing under operating load having at one end driving means for engaging and rotating a rotatable element and intermediate its ends an indicating gauge, a rigid arm fixedly connected at one end to the end of the handle having the driving means and being free at its other end, said arm being of less length than the handle and extending in spaced substantially parallel relation thereto and having adjacent its free end a shoulder which is oblique to the center line of the arm for cooperation with a follower of the gauge for registering on said gauge the deflection of the handle under flexing load when applying turning force to a rotatable element.

2,167,721

BRAKE

Ludger E. La Brie, Detroit, Mich., assignor to Bendix Brake Company, South Bend, Ind., a corporation of Illinois

Original application November 22, 1930, Serial No. 497,383, now Patent No. 2,095,752, dated October 12, 1937. Divided and this application July 27, 1936, Serial No. 92,798
2 Claims. (Cl. 60—54.6)



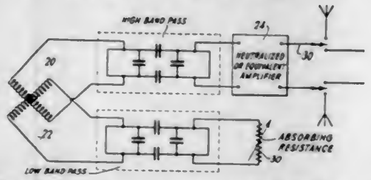
1. A wheel cylinder having a bleeder outlet and having a connection to brake system conduit, in combination with a means arranged in said connection between the conduit and the cylinder for allowing substantially free passage of liquid from said conduit to the cylinder and allowing passage of fluid under substantial differentials in pressure from the cylinder to the conduit for maintaining a predetermined pressure upon the liquid in the cylinder.

2,167,722

SIDEBAND MODULATION

Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application March 19, 1937, Serial No. 131,828
13 Claims. (Cl. 250—17)



1. In a transmission system comprising in combination a modulator, a source of carrier wave energy, and a source of modulating energy interconnected to produce modulated wave energy, a load circuit, a filter circuit tuned to the frequency range between the carrier and one maximum sideband frequency of said wave energy connected between the modulator and the load circuit, and a complementary filter terminated by an artificial load tuned to the frequency range between the carrier and the maximum sideband on the opposite side of said carrier relative to said first mentioned maximum sideband frequency connected with the modulator for balancing the modulator for all frequencies.

2,167,723

METHOD OF PREPARING FISH MEAL FOR STORAGE AND SHIPPING

Edgar T. Meakin, San Francisco, Calif.

No Drawing. Application July 3, 1936, Serial No. 88,767
2 Claims. (Cl. 99—2)

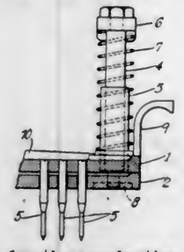
1. The method of preventing deterioration in the handling of cooked fish meal which consists in consolidating the loose meal into pellets substantially free from voids and providing the pellets with a burnished surface by passing the same under pressure across a smooth hard surface, thereby preserving the same against access of the atmosphere and the penetration of insect life.

2,167,724

PROCESS FOR PRODUCTION OF HOLLOW ARTICLES

Edward Arthur Murphy, Wylde Green, Birmingham, Geoffrey W. Trobridge, Sutton Coldfield, and Joseph A. Andrews, West Quinton, Birmingham, England, assignors to Dunlop Rubber Company Limited, London, England, a British company

Application June 3, 1936, Serial No. 83,204
In Great Britain August 10, 1935
8 Claims. (Cl. 18—58)



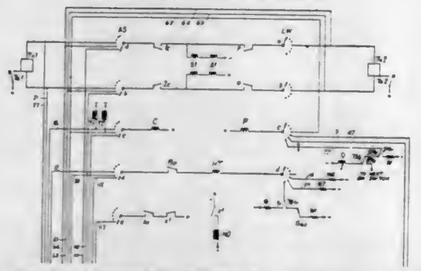
1. A process for the production of hollow articles from an aqueous dispersion of rubber composition by dipping which comprises coating a dipping former with a coagulant, dipping the coated former in the aqueous dispersion to form thereon a coagulated hollow deposit of rubber having an inner diameter which at each level is at least as great as that at any lower level wiping the tip ends of the said formers free from deposit and drawing the former through a perforation through which it extends to engage the upper edge of the coagulated deposit throughout its circumference and to strip the coagulated deposit from the former and thereafter vulcanizing the deposit.

2,167,725

TELEPHONE SYSTEM

Walter Pfaff, Berlin-Zehlendorf, Germany, assignor to Siemens & Halske Aktiengesellschaft, Wernerwerk, Siemensstadt, near Berlin, Germany

Application February 17, 1937, Serial No. 126,163
In Germany March 6, 1936
12 Claims. (Cl. 179—18)



1. In an automatic telephone system comprising a plurality of subscribers' stations, lines extending thereto, special control lines, and means for extending connections from calling or answering telephone lines to any one of said lines, a code calling system including first and second line finders, said finders having access to said telephone lines, signalling means located at points common to said stations, means operated when a connection is extended under control of a calling line to one of the special control lines for causing said first line finder to seize the calling line and extend a connection from said calling line to said second line finder, means for causing the extended connection to be released responsive to said seizure, means controlled by the calling line through said first line finder for operating said signalling means in accordance with a predetermined code to signal a particular party, means operated when a connection is extended under control of an answering line to another one of said special control lines for causing said second line finder to seize the answering line, and means for causing said last extended connection to be released responsive to said last seizure.

2,167,726

PROCESS FOR THICKENING UNSATURATED OILS

Roger W. Richardson, Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application January 28, 1936, Serial No. 61,180
10 Claims. (Cl. 204—31)
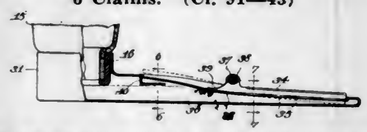
1. Process for increasing the viscosity of unsaturated fatty oils having iodine numbers above about 150 comprising separately hydrogenating the fatty oil in an initial stage to reduce the iodine number of said oil below about 100 and then in a secondary stage, subjecting the hydrogenated oil to the action of a silent electric discharge in order to polymerize the same.

2,167,727

MOISTENER

Waldo E. Rosebush, Millwood, Wash.

Application April 24, 1937, Serial No. 138,709
6 Claims. (Cl. 91—43)



1. A device for applying suitable liquid to suitable movable material, comprising a normally air locked liquid font having a liquid applicator tube in communication therewith and projecting therefrom, and means operable by pressure exerted by said material as it moves with respect to the tube to control the flow of liquid from the font to said tube by admitting a quantity of air to the font, said tube having a capillary opening to allow the flow of liquid from the tube to the material being moistened.

2,167,728

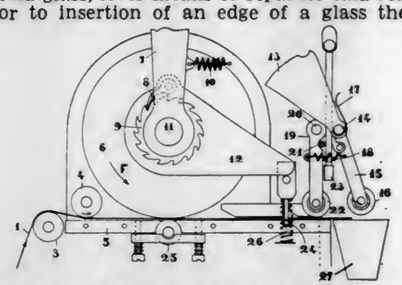
DEVICE FOR THE AUTOMATIC APPLICATION OF ANTISEPTIC INSULATING RIBBONS TO THE EDGES OF DRINKING GLASSES, CUPS, AND THE LIKE

Francesco Satragno, Rome, Italy

Application February 4, 1938, Serial No. 188,814
In Italy July 6, 1937
6 Claims. (Cl. 93—1)

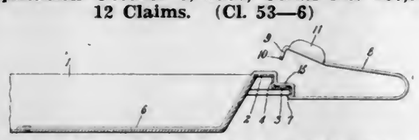
1. In a mechanism for applying a sanitary edging strip to the edge of a drinking glass, cup, container and the like, a pair of rollers to operate

across the edge of said glass to bend and apply the edging strip upon the edge of said glass, a cutter to cut said edging strip upon application to said glass, lever means to separate said rollers prior to insertion of an edge of a glass there-



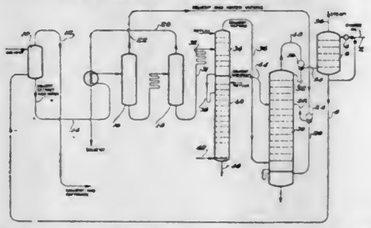
between and to bring said rollers together after insertion of the edge of a glass therebetween to apply said edging strip thereto and intermittent feed means to feed said edging strip intermittently to said pair of rollers and to said cutter for application to the edge of said glass.

2,167,729
PASTRY PAN
Lillian C. Shelton and Marion E. Rodgers, New York, N. Y.
Application October 8, 1937, Serial No. 167,915
12 Claims. (Cl. 53—6)



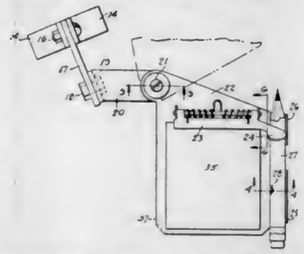
1. A pastry pan comprising a body having a rim portion extending laterally outwardly therefrom, a loosening member pivotally secured to the center of the body and shaped to conform to the bottom thereof, said rim portion being provided with indicia dividing the circumference of the pan into fractional parts, and trimming means associated with said loosening member for severing that portion of a pastry which lies over said indicia.

2,167,730
SOLVENT EXTRACTION AND RECOVERY
Eugene R. Smoley, New York, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware
Application October 4, 1935, Serial No. 43,531
12 Claims. (Cl. 196—13)



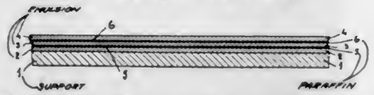
1. In a solvent extraction and recovery system wherein a charge liquid is subjected to an extraction step by contact with a solvent liquid, the solvent being of a character to form a constant boiling mixture with water, the steps which consist in steam distilling solvent from a mixture resulting from the extraction step to form a constant boiling vapor mixture of solvent and water, and contacting the vapor mixture with charge liquid at a temperature above that at which steam will condense to absorb substantially all of the solvent from the vapors.

2,167,731
HOLDER FOR WRITING PADS
Arthur R. Swanstrom, Portland, Oreg.
Application May 28, 1938, Serial No. 210,639
2 Claims. (Cl. 281—1)



1. A holder for writing pads consisting of a rectangular plate having an extension formed thereon near one corner thereof, an arm hinged to said plate in a plane parallel therewith, said arm having one end thereof turned at an angle to the other end thereof, a link attached to the turned end of said arm and a clamp at the opposite end of said link adapted to receive the steering column of an automobile.

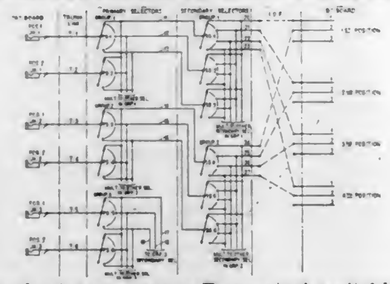
2,167,732
PHOTOGRAPHIC MATERIAL
Honoré Verkinderen, Mortsel, near Antwerp, Belgium, assignor to Gevaert Photo-Producten N. V., Antwerp, Belgium
Application May 14, 1937, Serial No. 142,660
In Austria May 19, 1936
11 Claims. (Cl. 95—2)



1. A photographic material comprising in combination, a plurality of superposed light-sensitive layers and a fusible intermediate layer between adjoining light-sensitive layers, the melting temperature of the fusible layer being above the temperature which enables a light-sensitive layer to be arranged on the intermediate layer, and below the temperature at which the light-sensitive layers would be damaged if exposed to this temperature for a short time.

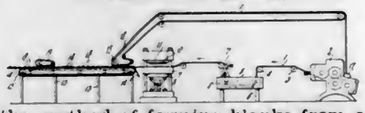
2,167,733
CALL DISTRIBUTING SYSTEM
John Wicks, Oak Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application September 20, 1937, Serial No. 164,639
19 Claims. (Cl. 179—27)

1. In a telephone system, a plurality of trunk lines connected to multiple jacks in a plurality of A operators' positions, a first group of automatic primary trunking switches in which said trunk lines terminate, a second plurality of trunk lines connected to different multiple jacks in said plurality of A operators' positions, a second group of automatic primary trunking switches in which said second plurality of trunk lines terminate, a first and second group of automatic secondary trunking switches, an individual secondary trunk line terminating in each switch of said groups of secondary switches, the individual secondary trunk lines terminating in switches of said first group of secondary switches accessible to all of the switches in said first primary group, the individual secondary trunk lines terminating in switches of said second group of secondary switches accessible to all of the switches in said



second primary group, a B operator's switchboard comprising a plurality of positions, a plurality of cord circuits for each of said positions, an individual trunk line for each of said cord circuits, one of the cord circuits at each one of said B operators' positions accessible by way of its individual trunk line to all of the switches in the first of said secondary groups, and another one of the cord circuits at each one of said B operators' positions accessible by way of its associated trunk line to all of the switches in the second of said secondary groups.

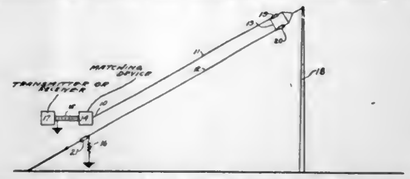
2,167,734
METHOD OF CUTTING BLANKS FROM PLASTIC STRIP MATERIAL
Frederick Zonino, Naugatuck, Conn., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application December 11, 1937, Serial No. 179,341
1 Claim. (Cl. 18—48)



In the method of forming blanks from a continuous strip of plastic material, the steps comprising moving the material through a press, nearly completely severing blanks from the material while leaving a continuous strip of scrap material with webs of such amount as will support the nearly severed blanks but which will tear when the strip and lanks are pulled away from each other, thereafter disposing the strip of material on mats mounted on a conveyer, pressing the strip of material on the mats, and moving the continuous scrap material out of the path of movement of the mats, wherey the lanks adhere to the mats and are torn from the scrap material.

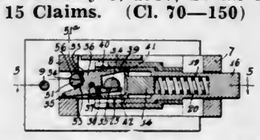
2,167,735
ANTENNA
Andrew Alford, New York, N. Y., assignor to Mackay Radio and Telegraph Company, New York, N. Y., a corporation of Delaware
Application March 17, 1936, Serial No. 69,292
7 Claims. (Cl. 250—33)

3. A bi-directional antenna comprising two parallel radiant acting conductors of a length in the order of at least a wavelength at the operating frequency of said antenna inclined with respect to the horizontal at an angle so related to the length of said conductors that the radiant action pattern of each of said conductors is effected in the desired direction and connected together at adjacent ends, a transmission line



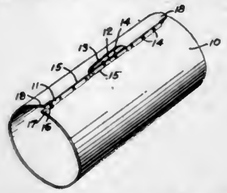
connected to one of the remaining ends and means for suppressing reflections connected to the other of the remaining ends whereby a bi-directional radiant action pattern is produced for the complete antenna by the addition of the unidirectional patterns of radiant action of all the conductors comprised in said antenna.

2,167,736
LOCK AND LATCH
Sherman Tecumseh Allen, Los Angeles, Calif.
Application February 5, 1937, Serial No. 124,221
15 Claims. (Cl. 70—150)



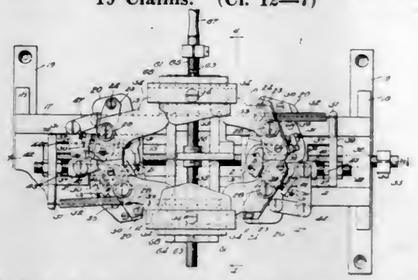
1. In a latch, the combination of a casing, a bolt guided within the casing, a spring urging the bolt to project from the casing, an automatically operating stop for engaging the bolt in its extended position to prevent withdrawal of the bolt, a handle, means actuated thereby for moving the automatic stop to permit withdrawal of the bolt, means also actuated by the handle for withdrawing the bolt; and hand-controlled means for locking the automatic stop in its engaging relation with the bolt to prevent the operation of the handle from withdrawing the bolt.

2,167,737
CAN AND METHOD OF MAKING SAME
John F. Anderson, Piedmont, Calif., assignor to Pacific Can Company, a corporation of Nevada
Application February 18, 1937, Serial No. 126,330
3 Claims. (Cl. 113—120)



1. In a can body, having a side seam, the major portion of which is formed by interengaged hooks, both of said hooks having a plurality of spaced indentations formed therein before interengagement of said hooks, said seam having inter-layer conduits formed by said indentations remaining after the seam is bumped, the indentations in one hook being in staggered relation to those in the other hook whereby the solder flowing through the seam tends to travel a criss-cross path.

2,167,738
LASTING MACHINE
Joseph W. Barna, Chicago, Ill., assignor of forty-nine per cent to Carl A. Laystrom, Chicago, Ill.
Application April 25, 1938, Serial No. 204,074
19 Claims. (Cl. 12—7)



1. In a lasting machine, heel-wipers and toe-wipers, independently mounted side-wipers whose ends overlie the heel-wipers and toe wipers, and means associated with and controlled by the side-wipers and constructed and arranged to impart lasting movement to the heel and toe wipers when the side-wipers are moved to lasting position.

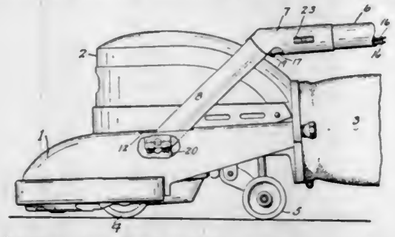
2,167,739
CUT INDICATOR FOR CASING CUTTERS
Julius S. Beck, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif.
Application April 27, 1937, Serial No. 139,134
5 Claims. (Cl. 164—0.7)



1. A casing cutting tool embodying: a body comprised of upper and lower body sections telescopically connected; a cutter interposed between said body sections and adapted to be projected laterally from said body when said body sections are collapsed, means for supporting said lower body section in a casing to be cut; a fluid circulating pipe mounted in said upper body section and slidably extending through said lower body section; and valve means at the lower end of said pipe adapted to be closed when said body is collapsed to project said cutter.

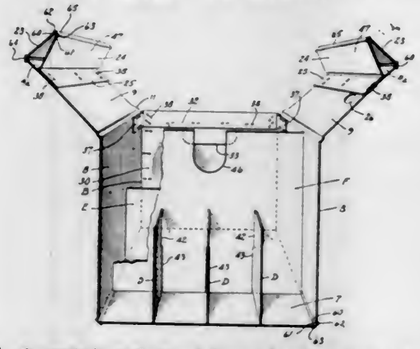
2,167,740
SUCTION CLEANER
Bernard C. Becker, Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 24, 1937, Serial No. 165,476
5 Claims. (Cl. 306—11)

1. A handle for suction cleaners comprising an elongated portion and a bifurcated bail, the bail being formed of a U-channel member which opens downwardly and inwardly and which carries an open bottomed socket for the elongated portion at its top center, and of a cooperating



U-channel member which opens upwardly and outwardly and which seats within said first member to form a closed channel open at its ends and open centrally to the socket to receive electrical conductors therefrom.

2,167,741
CONTAINER
George W. Boh, Chattanooga, Tenn., assignor to O. B. Andrews Company, Chattanooga, Tenn., a corporation of Tennessee
Application January 27, 1938, Serial No. 187,141
7 Claims. (Cl. 229—23)

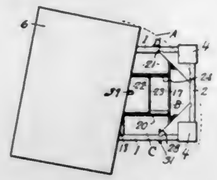


1. A container formed from sheet material and comprising bottom, side and end walls, cover members hinged to the top edges of said side walls and dimensioned whereby the inner edges substantially meet medially of said container when in closed position, and flanges of inherently rigid construction extending along the inner edges of said cover members and rigidly positioned relatively to said cover members, said flanges being adapted to enter said container when said cover members are in closed position whereby to reinforce said container longitudinally.

2,167,742
TABLE UTILITY ARRANGEMENT
Jerome Borio, Sawyerville, Ill.
Application February 4, 1938, Serial No. 188,673
5 Claims. (Cl. 312—164)

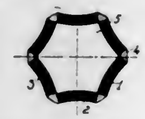
4. In table equipments, a table comprising a frame having a bottom and legs to carry the frame, a rockably arranged top carried on the frame, a drawer within the frame and adjacent the underside of the top, and a panel spaced from the bottom and slidable under and from beneath the drawer, a lock to secure the adjacent ends of

the panel and drawer from sliding movement when the drawer is in its retracted position and the panel is moved outward to the extremity of its length, a guiding element for each side edge of the panel and on which said panel will slidably engage, said elements being shouldered to space the panel downward from the upper extremity of



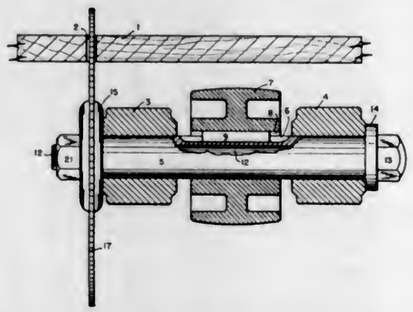
the guiding elements, and a guiding element for each side of the drawer, said elements extending from the bottom to the underside of the top and between which the said guiding elements for the panel are positioned, and the drawer adapted to slide on the upper extremity of the panel guiding elements.

2,167,743
FILTER FOR ARTESIAN WELLS OR BORE HOLES
Georges Caluwe, Moll, Belgium
Application May 17, 1938, Serial No. 208,400
In Belgium May 22, 1937
1 Claim. (Cl. 166—5)



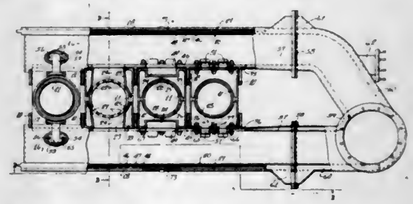
A filter for artesian wells and bore-holes consisting in an apertured casing the walls of which are formed with stacks of large lamellated plates arranged adjacent to each other in vertical position, so as to leave small interspaces of considerable depth, the walls forming in plan projection a polygonal figure with concave sides.

2,167,744
SAW ARBOR
Ira R. Cosby and Clifford E. Goodell, Spokane, Wash.
Application June 15, 1938, Serial No. 213,813
2 Claims. (Cl. 143—155)



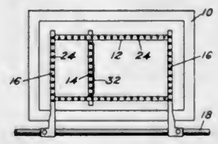
1. A circular saw mounting including a tubular arbor having a reduced end forming an annular shoulder, a clamp disk on said end and bearing against said shoulder, a bolt extended through said arbor, a clamp disk on said bolt, a saw blade having a central opening supported on said reduced end intermediate said disks, and means for retaining said saw and disks in power transmitting relation.

2,167,745
INTERNAL COMBUSTION ENGINE
Hans Davids, Beloit, Wis., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois
Application March 23, 1938, Serial No. 197,648
13 Claims. (123—195)



1. In combination in an internal combustion engine, an engine frame, a cylinder liner carried by said frame and provided with an exhaust port, an exhaust manifold spaced from said liner, a jacketed member formed as a separate unit, embracing said liner substantially at the zone of said port, said member being provided with a passage arranged to connect said liner port to said manifold, and means for supplying engine cooling fluid to the jacket space of said member.

2,167,746
SCORING MEANS IN PRINTING PRESSES
Don R. Donnell, Los Angeles, Calif.
Application June 13, 1938, Serial No. 213,441
4 Claims. (Cl. 93—58)



1. In a printing press having gripper fingers, an attachment comprising a framework, means for adjustably fitting the framework to the gripper fingers, said gripper fingers having two grooves in their faces for imprinting parallel stripes on the tympan, and scoring means aligned between these imprinted stripes.

2,167,747
TOP-CEMENTING PLUG
Zeb A. Dyer, Los Angeles. Calif., assignor of one-fourth to Charles Lamb and one-fourth to Douglas R. Radford, both of South Pasadena, Calif.
Application October 12, 1938, Serial No. 234,626
9 Claims. (Cl. 166—1)

1. In a cementing plug for use in cementing casings in deep wells, the combination of: a body having an annular groove near its upper end, a rubber cup formed with a bottom wall and a collar enclosing the upper end of the body, and an axially contracting flange gripping the body in the recess, and a packing flange extending

upwardly and outwardly from the bottom wall of the cup adapted to form a packing between the



body and the well casing in which the plug is inserted.

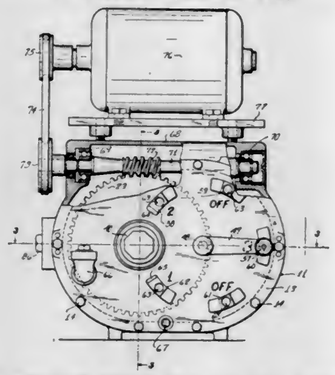
2,167,748

VARIABLE SPEED GEAR TRANSMISSION

Sever C. Gebert, Chicago, Ill., assignor to Fairbanks, Morse & Co., Chicago, Ill., a corporation of Illinois

Application November 29, 1937, Serial No. 176,985

5 Claims. (Cl. 74—354)



1. A variable-speed transmission including a casing, a shaft journalled in said casing, a driving gear loosely disposed on said shaft, a cluster of integrally united gears on said shaft, a train of gears operatively connecting said gear cluster and shaft, a cage structure encircling said shaft, a plurality of dual compound gears carried by the cage structure, each of said compound gears having one of its members disposed in the plane of said driving gear and its other member disposed in the plane of one of the gears of said cluster, means on the casing supporting one side of said cage structure for pivotal and reciprocating movement, an eccentric mounted in the casing at the opposite side of the cage structure, adapted to impart pivotal and reciprocating movement thereto whereby to place any selected one of the cage gears into operative engagement with said driving gear and said gear cluster.

2,167,749

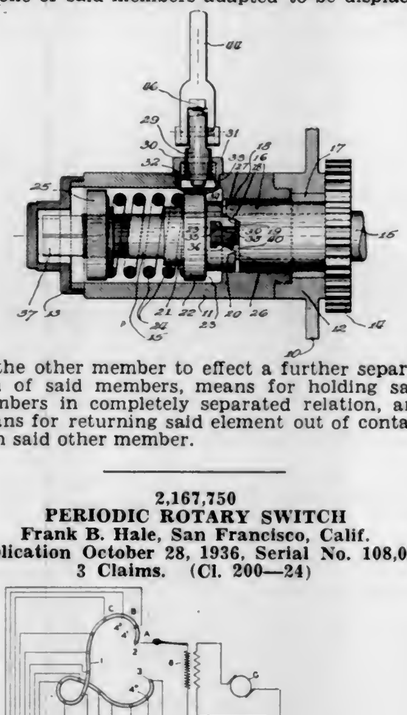
OVERLOAD CLUTCH

Henry P. Grohn, Chicago, Ill.

Application May 31, 1938, Serial No. 210,931

7 Claims. (Cl. 192—56)

1. An overload clutch comprising clutch members having engaging faces in sloping relation to the driving direction whereby excessive load tends to separate the members, resilient means tending to prevent such separation, a movable element on one of said members adapted to be displaced



by the other member to effect a further separation of said members, means for holding said members in completely separated relation, and means for returning said element out of contact with said other member.

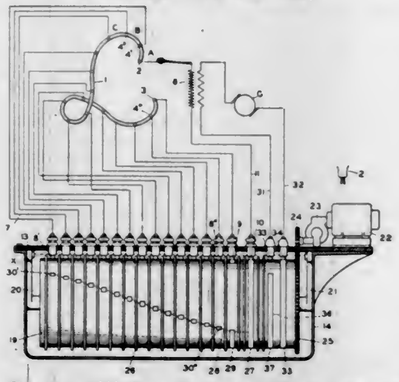
2,167,750

PERIODIC ROTARY SWITCH

Frank B. Hale, San Francisco, Calif.

Application October 28, 1936, Serial No. 108,027

3 Claims. (Cl. 200—24)



1. In a multiple rotary switch, a revolvable drum, a primary contact band arranged peripherally thereon and a plurality of secondary contacts arranged spirally on the drum, the first one of the secondary contacts being alined with the beginning of the primary contact band and the last one of the secondary contacts extending peripherally beyond the primary contact band.

2,167,751

BUTTERMILK CASEIN PRODUCT

Charles G. Harford, Wollaston, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application October 10, 1936, Serial No. 105,081

4 Claims. (Cl. 134—12)

1. The method of converting acid precipitated buttermilk casein and some of its accompanying solids into a smooth, viscous, liquid coating composition which comprises carrying down the acid precipitated casin and certain accompanying solids, including albumin and fats and fat-like substances, the fats and fat-like substances being present in the proportions of about five per cent or more of said fats and fat-like substances to one hundred per cent of butter milk casein, from their original accompanying whey, and then adding an alkaline casein dissolving agent and maintaining enough water with the solids to prevent drying thereof until the final coating composition is completed.

2,167,752

CASEIN COATING COMPOSITION AND METHOD OF PREPARING THE SAME

Charles G. Harford, Wollaston, Mass., assignor to Arthur D. Little, Inc., Cambridge, Mass., a corporation of Massachusetts

No Drawing. Application August 3, 1937, Serial No. 157,147

6 Claims. (Cl. 134—50)

1. The method of converting buttermilk casein and some of its accompanying solids into a smooth viscous liquid coating composition which consists in precipitating said casein and carrying down the precipitated casein and the accompanying solids, including lipoids in the proportions of about 4% or more of lipoids to 100% buttermilk casein, from their original accompanying whey, then adding an alkaline casein dissolving agent in sufficient quantity to produce a solution with a pH of above 7, thoroughly mixing said vehicle in its wet state with pigments in the presence of a buffer substance acting to maintain a pH value below that at which substantial ammonolysis takes place, and maintaining enough water with the solids to prevent drying thereof until the final coating composition is completed.

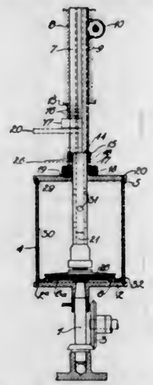
2,167,753

MECHANISM FOR MANUFACTURING CYLINDRICAL CONTAINERS OUT OF FIBROUS MATERIAL SUSPENDED IN A LIQUID

Gottfried Held, Bern, Switzerland

Application July 22, 1936, Serial No. 92,052. Renewed April 12, 1939. In Switzerland August 2, 1935

3 Claims. (Cl. 92—58)



1. A machine of the character described, comprising a mechanically operated centrifugal part and a manually operated pressure assembly; the centrifugal part comprising a rotative shaft, a base plate detachably fastened to the latter, an exchangeable perforated circular mould riding on the said plate, an individual and detached perforated bottom plate also riding on the said plate, and an exchangeable and detached top plate riding on the top of the said mould and possessing a central circular opening; the said pressure assembly comprising a hand-wheel, an axle rotatable in a bush, a pinion keyed to the said axle, a stationary guide in the form of a hollow axle integral with the said bush, a hollow shaft segmentally adapted as a rack which may be raised and lowered inside the said guide by means of the said rack and pinion, means fastened to the center portion of the said shaft for the purpose of exerting a steady pressure against the said top plate of the centrifugal part, the lower portion of the said shaft projecting through the said opening of the latter plate and possessing a plurality of holes for the purpose of admitting pulp fed through the said shaft into the space enclosed by the said mould, and a bottom assembly pinned to the said shaft and comprising, in its turn, a bottom-most perforated pressure plate, a flange screwed to the latter, a plurality of ball-bearings, a housing for the latter, a pin held fast in the said housing and rotatable on the said ball-bearings, and a cap screwed onto the said housing which, together with the said flange, forms a labyrinth seal for the lubricating oil; the whole in such an operative association that the spinning of the said centrifugal part is building the wall of the container while the bottom of the latter simultaneously is moulded under pressure applied axially by the said pressure assembly.

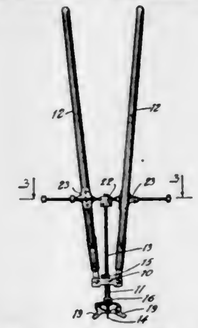
2,167,754

ROTARY BEET TOPPER

Francis S. Hill, Denver, Colo.

Application February 28, 1938, Serial No. 192,953

8 Claims. (Cl. 55—65)



1. A beet topper comprising: a vertical guide rod having a pointed lower extremity; knives secured to the lower extremity of said rod so as to rotate about said pointed extremity, said knives being so curved and shaped as to form a complete concave cutting unit; and means for rotating said knives.

2,167,755

BENCH LATHE

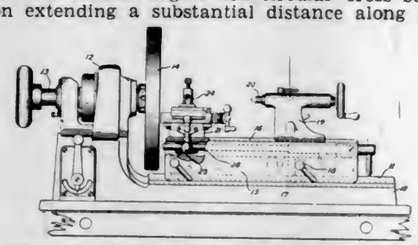
Frank O. Hoagland, West Hartford, Conn., assignor to Niles-Bement-Pond Company, Hartford, Conn., a corporation of New Jersey

Application June 16, 1938, Serial No. 213,977

5 Claims. (Cl. 82—6)

1. A bench type lathe comprising in combination, a base having a headstock at one end, a work supporting and rotating spindle in said headstock, a bed slidable longitudinally on said base a tool rest adjustable on said bed and hav-

ing tool supporting and moving means therein, means to lock said bed in adjusted positions on said base, a shaft extending longitudinally within said bed and having a non-circular cross section extending a substantial distance along its



length, and means depending from said tool rest engaging said shaft along its non-circular cross section whereby oscillation of said shaft in opposite directions will clamp and unclamp said tool rest relative to said bed.

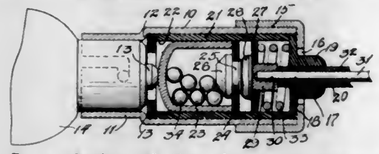
2,167,756

AUTOMATIC SWITCH LAMP SOCKET

John W. Hobbs, Springfield, Ill., assignor to John W. Hobbs Corporation, Springfield, Ill., a corporation of Delaware

Application November 18, 1938, Serial No. 241,174

3 Claims. (Cl. 173—346)



1. In a device of the character described, a tubular metallic shell adapted at one end to form a lamp receiving socket for engaging a circuit contact connection of the lamp, a metallic contact member insulatingly supported within said shell, said member defining a chamber, a contact member insulatingly supported at the open end of said chamber, a hot conductor extending into said shell, one of said contact members being arranged to make electrical contact with another circuit contact connection of said lamp, and the other of said contact members having an electrical connection with the hot conductor, spring means for resiliently opposing movement of said contact members and the hot conductor away from the socket end of the shell, a guide member of insulating material at the other end of said shell for slidingly supporting the hot conductor for axial movements, said guide member being supported interiorly of said shell, and freely movable gravity responsive conductor means movable within said chamber to connect and disconnect said contact members upon tilting movements of said shell.

2,167,757

MANUFACTURE OF TETRA ALKALI-METAL PYROPHOSPHATE AND CHLORINE

Fredrick C. Jelen, Anniston, Ala., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application July 11, 1936, Serial No. 90,184

6 Claims. (Cl. 23—106)

1. A process for manufacturing tetra alkali metal pyrophosphate and chlorine comprising reacting together in the absence of water at a temperature of about 1000° C., an alkali metal chloride phosphorus pentoxide and oxygen in the proportion of 4 mols alkali metal, 1 mol of P_2O_5 and 1 mol of O_2 to form the tetra alkali metal pyrophosphate and chlorine.

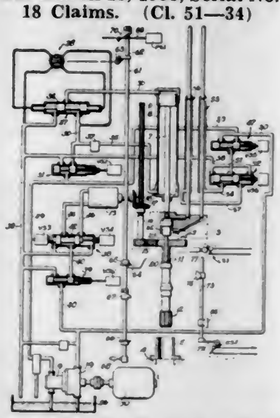
2,167,758

METHOD AND MACHINE FOR HONING CYLINDRICAL SURFACES

Albert M. Johnson and Walter M. Fairbairn, Rockford, Ill., assignors to Barnes Drill Co., Rockford, Ill., a corporation of Illinois

Application March 18, 1938, Serial No. 196,636

18 Claims. (Cl. 51—34)



1. In a machine for honing cylindrical surfaces, in combination, a honing tool having a plurality of abrasive elements arranged in a circular series, tool-actuating means operative to shift said elements radially to force the elements into engagement with the surface of a cylindrical work piece, a support for said tool, a support for the work piece, means for reciprocating one of said supports relative to the other support to cause the tool to operate on the surface of the work piece, means for rotating one of said supports during said reciprocation to effect relative rotation of the tool and work, hydraulically-operated means for operating said tool-actuating means to force the abrasive elements of the tool against the work piece, a first and a second source of pressure fluid, the fluid supplied from said second source being at a higher pressure than the fluid supplied from said first source, a valve operable to connect either of said sources to said hydraulically-operated means selectively, and a timing device for operating said valve.

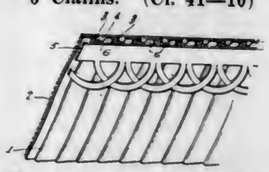
2,167,759

PLEATED SHELF EDGING

Edward Karfiol, Great Neck, N. Y.

Application October 11, 1938, Serial No. 234,375

6 Claims. (Cl. 41—10)



4. A shelf edging comprising a main ply pleated for its full height, an unpleated back ply in face abutting relation to the pleats at the back of the main ply and secured to said pleats for a greater portion of the height of the main ply, said back ply being of a height not exceeding the height of the main ply, and a relatively narrow, unpleated, ornamental front ply extending along and positioned wholly in front of the main ply and adhesively secured in face abutting relation to the pleats of the latter.

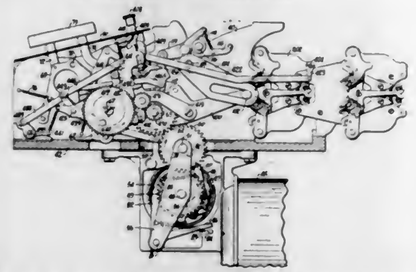
2,167,760

ACCOUNTING MACHINE

Charles L. Lee, deceased, late of Dayton, Ohio, by Leefe Jane Lee, executrix, Dayton, Ohio, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Original application October 14, 1935, Serial No. 44,838. Divided and this application July 22, 1936, Serial No. 91,877

6 Claims. (Cl. 235—60)



3. In a machine operable to perform plural cycle overdraft operations, the combination of an overdraft key; a cycle controller operable to control the operation of the machine in overdraft operations; a gear operable to make a complete rotation during the plural cycles of an overdraft operation; and clutch mechanism rendered operable by said overdraft key each time the key is operated, for coupling the cycle controller to the gear for operation thereby.

2,167,761

TOOTH BRUSH

Bessie M. Levin, New York, and Isidore Fleischmann, Bronx, N. Y.

Application February 3, 1939, Serial No. 254,350

1 Claim. (Cl. 15—135)



A tooth brush having a relatively thin substantially straight cylindrical tubular handle open at both ends and provided with a narrow longitudinal slot along its top for its full length to provide therein a receptacle, a flat brush stock integral with and projecting from the base of the cylindrical handle in straight line relation therewith and having bristles on its under side with a hole through the bristle portion of the stock, and a tube of tooth paste within the receptacle of the handle and projecting through and beyond both ends thereof and having at its forward end an integral, offset tapering shank extending to and terminating in the hole in the stock, said cylindrical handle being transversely resilient to frictionally grip and hold the tube in the cylindrical handle.

2,167,762

GETTER AND THE APPLICATION THEREOF

Lloyd D. Lockwood, Madison, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

No Drawing. Application November 7, 1936, Serial No. 109,762

19 Claims. (Cl. 176—2)

7. A maintenance getter comprising a double fluoride of uranium and an alkali or alkaline earth metal.

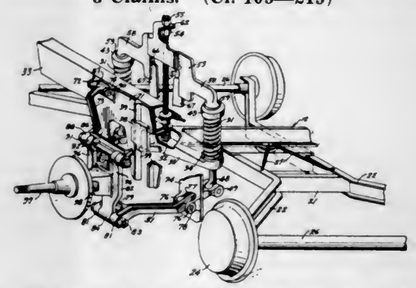
2,167,763

FRONT END SUSPENSION

Milton A. Luce, San Francisco, Calif., assignor of one-half to Milton W. Dobrzensky, Oakland, Calif.

Application June 11, 1938, Serial No. 213,216

3 Claims. (Cl. 105—215)



1. In a vehicle of the character described, a chassis frame, a carriage adjustably mounted thereon, wheels journalled upon said carriage, resilient means carried by said carriage, elevating and lowering mechanism comprising a nut rotatably mounted upon said frame and a jack rod threaded therethrough and connected to said carriage, whereby said carriage can be raised and lowered by turning said nut, means supported on said jack rod adapted for engagement with said resilient means when said carriage is lowered, means providing a fulcrum rigid with said frame, a lever pivoted intermediate its ends to said fulcrum, a bracket pivoted to the outer end of said lever, a link parallel to said lever and pivoted at one end to said frame and at its other end to said bracket to guide said bracket in vertical translatory motion with respect to said frame, a wheel journalled on said bracket, a support for one end of said resilient means, and means connecting said support to the other end of said lever whereby road shock imparted to said bracket wheel is transmitted to said resilient means and whereby said bracket is raised when said carriage is lowered.

2,167,764

GLASS BUILDING BLOCK

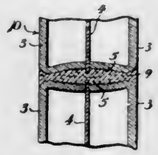
William O. Lytle, New Kensington, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application September 12, 1936, Serial No. 100,481

7 Claims. (Cl. 72—41)

1. A glass block comprising a pair of opposing similar rectangular cup sections opening toward each other, and a sheet of transparent non-shatter material between the sections engaging the

edges thereof dividing the interior of the block into a plurality of cells and constituting a se-



curing and sealing means for the opposing edges of the sections.

2,167,765

FILAMENT AND METHOD OF MAKING

Michael E. McGowan, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application December 4, 1936, Serial No. 114,138

17 Claims. (Cl. 176—40)



1. A filament for an incandescent electric lamp comprising merely a coiled-coil intermediate portion, with straight, generally parallel contact tight wound coil end portions.

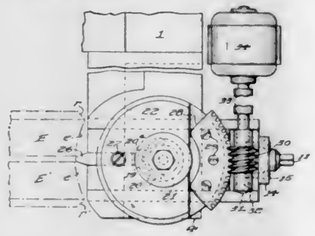
2,167,766

APPARATUS FOR ROTATING AND SHAPING ELECTRODES OF ELECTRIC WELDING MACHINES

George E. Mirfield, Youngstown, Ohio, assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio, a corporation of Ohio

Application January 15, 1938, Serial No. 185,082

10 Claims. (Cl. 82—4)



1. In means for shaping a rotatable welding electrode, a tool holder disposed adjacent the peripheral surface of the electrode adapted to support a tool for operation thereon, means for rotatably supporting the tool holder comprising a slide adapted for rectilinear movement toward and away from the electrode, a stud projecting from the slide, an eccentric bushing surrounding the stud and extending into the tool holder, means for holding the bushing in predetermined rotatably adjusted position on the stud and means for swinging the tool holder about the bushing to thereby move the tool in an arcuate path relatively to the electrode.

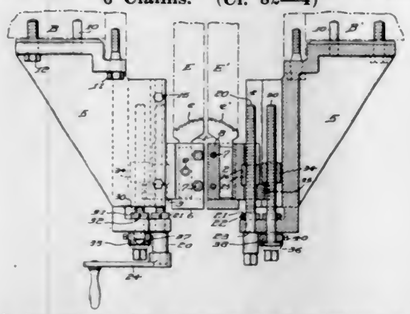
2,167,767

ELECTRODE SCRAPING AND DRESSING APPARATUS FOR WELDING MACHINES

Earnest W. Mishler, Youngstown, Ohio, assignor to The Youngstown Sheet and Tube Company, Youngstown, Ohio, a corporation of Ohio

Application December 30, 1937, Serial No. 182,404

6 Claims. (Cl. 82—4)



1. In means for scraping and dressing a rotatable welding electrode, a support disposed adjacent the electrode, a slide carried by the support and provided with a recess, an electrode scraping and dressing tool secured to the slide and movable therewith toward and away from the electrode, means for moving the slide comprising a nut engaging in said recess and a screw carried by the support extending through the nut, and means carried by the support adapted to adjustably limit movement of the slide in one direction comprising a second screw and a nut disposed thereon in the path of movement of a portion of the slide when the slide is moved by said slide-moving means.

2,167,768

DISK HARROW

Rollie H. Mitchell, Huntington Park, Calif., assignor to Killefer Manufacturing Corporation, Los Angeles, Calif., a corporation of California

Application November 24, 1937, Serial No. 176,237

11 Claims. (Cl. 55—83)



1. In a disk harrow, the combination of a front gang of disks and a rear gang of disks, means pivotally connecting the disk gangs to permit the same to swing to angular relation, a hitch bar pivotally connected to the forward gang of disks at one end, means connecting the opposite end of the hitch bar with the rear gang of disks whereby the swinging of the hitch bar upon its first mentioned pivot may be resorted to to control the angular relation of the gangs, a tongue, a slide connected to the tongue at its rear end, and means for releasably connecting the slide at selected points along the length of the hitch bar.

2,167,769

DIPPER TRIP AND TAG LINE WINDER

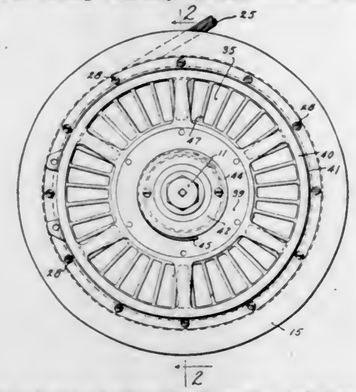
George G. Morin and Emile J. Carleton, Holyoke, Mass.; said Carleton assignor to said Morin

Original application November 19, 1935, Serial No. 50,554. Divided and this application August 3, 1937, Serial No. 157,176

8 Claims. (Cl. 192—36)

3. A dipper trip or tag line winder for power

shovels which comprises, a power shaft, a drum rotatably mounted on said shaft and having peripheral flanges between which a dipper trip cable or tag line may be wound, a two-part friction clutch member secured to the shaft, said parts being movable toward and from each other, an annular plate secured to one flange of the drum and extending radially inward between the op-



erating faces of the clutch parts, friction members secured to the opposite faces of said plate for engagement with the clutch parts, a spring acting to constantly urge the clutch parts into slipping frictional engagement with the friction members on said plate, and means for forcing the clutch parts into driving relation with friction members on the plate.

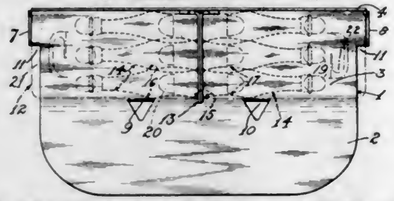
2,167,770

METHOD AND MEANS FOR LOADING CONTAINERS IN CARRIERS

Chester S. Mulienix, Mount Oliver, and John G. Windeknecht, Brentwood, Pa.

Application March 10, 1938, Serial No. 195,058

10 Claims. (Cl. 93—2)



1. The method of loading containers of the character described into a carrier made of a flat foldable blank having apertures engageable by the bottoms and tops of said containers, which consists in laying said containers on said blank in co-axial relation with said apertures and placing the bottoms of the containers against a common abutment, and then raising the ends of said blank to bring said containers into vertical position and into engagement with their respective apertures using said abutment as a fulcrum for said containers.

2,167,771

REPEAT MECHANISM FOR CASH REGISTERS AND LIKE MACHINES

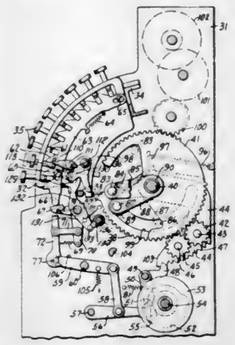
Hubert Neureiter, Essen-Ruhr, Germany, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland

Application July 6, 1935, Serial No. 30,136

In Germany July 14, 1934

12 Claims. (Cl. 235—7)

1. In a machine of the class described having a plurality of amount keys, the combination of a member differentially positioned under control of the amount keys; means rendered effective in each machine operation to lock the member in set position for a subsequent repeat operation; a manipulative device; and means operated by the



amount keys to connect the locking means to the manipulative device to cause said manipulative device to disable the locking means to prevent the retention of the member in pre-set position during an operation of the machine in which an amount key is depressed.

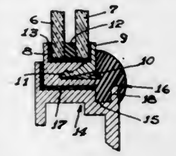
2,167,772

WINDOW CONSTRUCTION

William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application April 8, 1938, Serial No. 200,918

1 Claim. (Cl. 20—56.4)



In combination in a window construction, a glazing unit, a channel frame carrying the unit and made up of oppositely disposed angles and wedges for releasably locking the angles together having their outer ends projecting out past the face of the frame, a sash having a rabbet in which the frame is seated and provided with a channel lying outwardly of the frame and in front thereof, and a locking means for holding the frame in the sash comprising a compressible resilient strip fitting into said last channel under compression and extending inward past the projecting ends of the wedges and interlocking therewith.

2,167,773

COMBINATION TOBACCO RECEPTACLE AND CIGARETTE MAKER

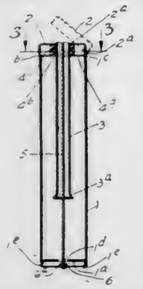
Albert J. Plaman and John Thompson, Newhall, and Olav Hovden, Fairmont, Calif.

Application September 27, 1937, Serial No. 165,800

8 Claims. (Cl. 131—5)

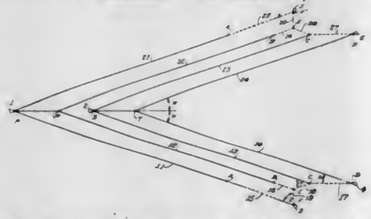
1. In a combination tobacco receptacle and cigarette maker, a casing provided with a partition at one side near its upper end, extending over a portion only of the upper open end of said casing, a cover hinged at one side on said casing, a

sleeve interposed between said partition and said cover, a tubular member reciprocally mounted in



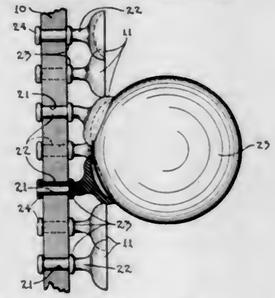
said partition, sleeve, and cover, and a tamping member reciprocally mounted in said sleeve.

2,167,774
MULTIPLE V ANTENNA SUSPENSION
Haraden Pratt, Douglaston, N. Y., assignor to Mackay Radio & Telegraph Company, New York, N. Y., a corporation of Delaware
Application May 4, 1937, Serial No. 140,582
7 Claims. (Cl. 250—11)



1. A supporting structure for an array of at least four V antennae comprising a first pair of poles disposed along the axis of the array, two other pairs of poles disposed symmetrically about said axis, each of said other pairs being in the vicinity of the arm ends of one side of said array, a tension arc extending between the two poles of each such other pair, means for supporting the vertices of the four V antennae from said first pair of poles and means for supporting the arm ends of said four antennae from said other pairs of poles and the tension arc extending between them.

2,167,775
GAME DEVICE
Walter R. Price, Minneapolis, Minn.
Application April 1, 1939, Serial No. 265,454
13 Claims. (Cl. 273—102)



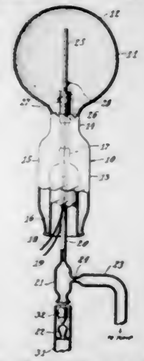
1. In a target, a backing, a bed of resilient vacuum cups thereon, one or more of the cups being adapted to be impinged by a projectile directed against said bed and, upon such impingement, to conform with and adhere to the surface of the projectile.

2,167,776
DOOR SEALING DEVICE
Charles Greif Raible, Shaker Heights, Ohio, assignor, by mesne assignments, to The Sentry Stop-A-Draft Co., Cleveland, Ohio, a corporation of Ohio
Application November 27, 1936, Serial No. 112,933
1 Claim. (Cl. 20—68)



In a sealing device of the character described the combination of an elongated hollow casing having end and side walls and a slot-like opening, and an elongated sealing member in said casing adapted to be partially projected through said opening comprising a channel-shaped metal bar and a packing strip carried thereby, said metal bar having curved integral finger-like extensions forming bearing portions at the ends thereof for guiding engagement with the end walls of the casing.

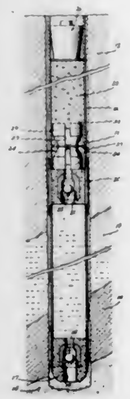
2,167,777
PHOTOELECTRIC TUBE
Harvey C. Rentschler and Donald E. Henry, East Orange, N. J., assignors, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 26, 1936, Serial No. 102,641
7 Claims. (Cl. 250—165)



1. The method of making a photo-electric tube comprising preparing an envelope of high transmission glass with a substantially spherical portion, mounting an electrode of titanium so that it is disposed substantially central with respect to said portion and an auxiliary electrode adjacent said titanium electrode, connecting thereto an evacuated bulb containing degasified charcoal and closed by a frangible partition between the envelope and bulb, exhausting said envelope, introducing therein a monatomic gas at a pressure of from 1 to 6 millimeters of mercury, causing a glow discharge between said electrodes, with the titanium as a cathode, whereby material therefrom is sputtered on the inner surface of said spherical portion, and finally exhausting the

gas filling from said envelope by placing the bulb containing degasified charcoal in liquid air and breaking said frangible partition.

2,167,778
CEMENTING PLUG
Slayden R. Robinson, Los Angeles, Calif., assignor, by mesne assignments, of one-fourth to Charles Lamb and one-fourth to Douglas R. Radford, both of South Pasadena, Calif., and one-half to Zeb Allen Dyer, Los Angeles, Calif.
Application April 6, 1938, Serial No. 200,400
2 Claims. (Cl. 166—1)

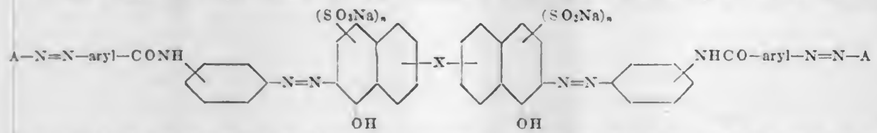


1. A cementing plug of the type described comprising two end members, said end members each having an enlarged outer end portion and having a passageway therethrough establishing communication to both sides of the enlarged portion, an intermediate member between said end members, means for detachably securing said members together, and an annular flexible wiper mounted between one of said end members and said intermediate member

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2,167,779
DYEINGS WITH POLYAZO DYES
Swanie S. Rossander, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 24, 1937, Serial No. 160,603
12 Claims. (Cl. 8—46)

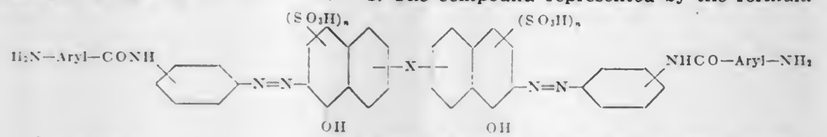
1. The compound represented by the formula



in which A is the radical of an azo dye coupling component which is devoid of solubilizing groups, X is one of the groups —NH—CO—NH— and —NH—, *n* is one of the integers 1 and 2, and aryl is one of the group consisting of the radicals of benzene compounds and naphthalene compounds, aryl being substituted by —CONH— in one of the positions meta and para with respect to the azo bridge.

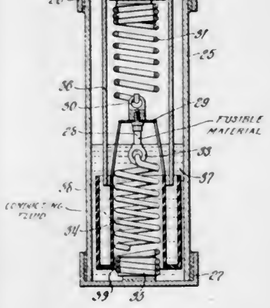
2,167,780
DISAZO DYESTUFFS
Swanie S. Rossander, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 24, 1937, Serial No. 160,604
8 Claims. (Cl. 260—175)

1. The compound represented by the formula



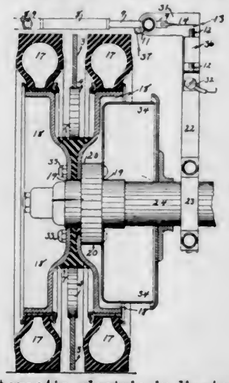
in which X is one of the groups –NH–CO–NH– and —NH—, *n* is one of the integers 1 and 2, Aryl—NH_2 is one of the group consisting of the radicals of amino benezene and naphthylamine compounds, the benzene of the azo-benzene nucleus being substituted by amino-aroylamino in one of the positions ortho, meta and para with respect to the azo group.

2,167,781
CURRENT INTERRUPTING MEANS
Edmund O. Schweitzer, Jr., Northbrook, Ill.
Original application February 20, 1936, Serial No. 64,800, now Patent No. 2,122,872, dated July 5, 1938. Divided and this application February 21, 1938, Serial No. 191,619
7 Claims. (Cl. 200—117)



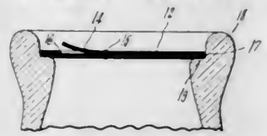
1. An electrical circuit breaking device comprising, in combination, a pair of terminals, circuit means including a fusible member interconnecting said terminals, a body of conducting liquid, and a means disposed to effect the final breaking of the circuit interconnecting said terminals between two portions of said liquid when said fusible member is blown.

2,167,782
INDICATOR FOR DEFLATED PNEUMATIC TIRES
Charles Byron Smith, Tucson, Ariz., and Corwin Satterthwaite Harvey, Milwaukie, Oreg.
Application July 17, 1935, Serial No. 31,840
4 Claims. (Cl. 200—58)



1. An automatic electric indicator for deflated pneumatic tires comprising a structure embodying an electric circuit-closing device of the class described, and an actuating mechanism in coacting and operative relation therewith; said circuit-closing device consisting substantially of a vertical standard having a supporting clamp at its bottom engaging with a vehicle axle, and at its top a horizontal extension provided with a fulcrum and a lever-arm pivotally mounted thereon and movable in a vertical plane, said lever-arm having a revolvable roller sleeve on one end and at the other end a flexible contact strip forming a part of an electric circuit; said circuit-closing device consisting furthermore of an adjustable contact screw having means for its connection into said electric circuit, said screw mounted on and electrically insulating from said standard, said flexible contact strip normally held out of engagement with said contact screw, but adapted to engagement therewith; and said actuating mechanism consisting substantially of a circular, revolvable, road-surface contacting element comprising a rigid actuating disc having an opening passing centrally through it from side to side, and spring means disposed in said opening and engaging with the surrounding edge thereof and forming a portion of said element; and furthermore consisting of a flexible cushioning element disposed in surrounding concentric and engaging relation with the hub of a dual vehicle-wheel revolvably disposed on said vehicle axle and having a plurality of wheel-discs and tire-rims with pneumatic tires disposed thereon; said cushioning element furthermore disposed between and conforming to the contour of said wheel-discs; and said actuating disc and spring means disposed in surrounding, concentric, flexible, elastic relation with said cushioning element, the said spring means engaging therewith; said actuating disc normally held, by said spring means, in a position concentric to said wheel hub and cushioning element and out of actuating engagement with the revolvable roller sleeve of said circuit-closing device, but movable from said concentric position, upon the application of a predetermined force to its periphery, to a position eccentric to said wheel hub and cushioning element and into actuating engagement with said revolvable roller sleeve of said circuit-closing device.

2,167,783
BOTTLE CLOSURE OR THE LIKE AND PAPERBOARD THEREFOR
Florian A. Strovink, Medford, Mass., assignor to Bennett Incorporated, Cambridge, Mass., a corporation of Massachusetts
Application October 9, 1937, Serial No. 168,234
6 Claims. (Cl. 215—51)

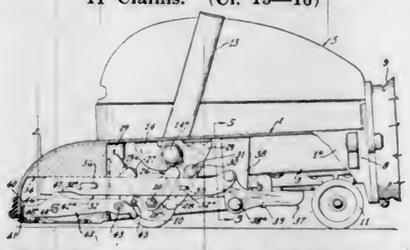


2. In a multi-ply paperboard bottle closure, an internal ply containing a cellulose-softening agent in amount sufficient to impart thereto a ply adhesion much lower than that of adjacent plies, said closure containing a tab-defining incision extending from its face substantially to said internal ply.

2,167,784
METHOD OF TREATING IRON FLUORIDE
Svend S. Svendsen, Madison, Wis., assignor, by mesne assignments, to The Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
No Drawing. Application January 13, 1936, Serial No. 58,895
10 Claims. (Cl. 134—59)

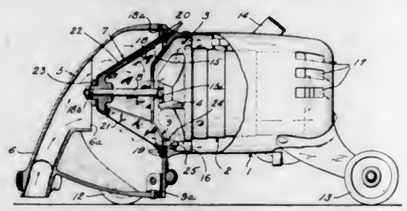
1. In a method of preparing an iron oxide material by treatment of the residual material comprising iron fluoride which is formed by the separation of a titanium fluoride compound from a mixture of titanium fluoride and iron fluoride compounds formed by the heating of a titanium-bearing material containing iron with ammonium fluoride to a temperature high enough to cause a reaction to form said mixture of fluoride compounds of titanium and iron, the step which comprises treating said separated iron-fluoride-containing material with a hydrogen and oxygen containing inorganic compound which forms with said iron fluoride at temperatures from 300 to 600° C. an oxygen compound of iron and a volatile fluoride, said treatment being carried out at a temperature high enough to effect said reaction.

2,167,785
SUCTION CLEANER
Charles H. Taylor, North Canton, Ohio, assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application December 16, 1936, Serial No. 116,081
11 Claims. (Cl. 15—16)



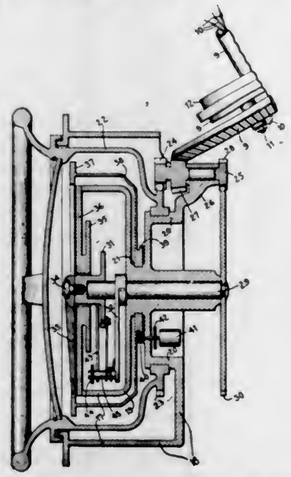
1. In a suction cleaner, the combination of a casing having a nozzle and a supporting wheel adapted for adjustment vertically to raise or lower the nozzle relative to the surface to be cleaned, but normally adapted to be held in a given position of a vertical adjustment, a surface contacting member mounted on said casing and adapted to be shifted into a position below the plane of said nozzle to establish a predetermined height thereof above said surface, and means operative to release said vertically adjustable supporting wheel while said contacting member is in its shifted position to permit said wheel to adjust itself vertically to the position determined by said surface contacting member.

2,167,786
SUCTION CLEANER
Charles H. Taylor, Springfield, Mass., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application September 4, 1937, Serial No. 162,423
3 Claims. (Cl. 183—63)



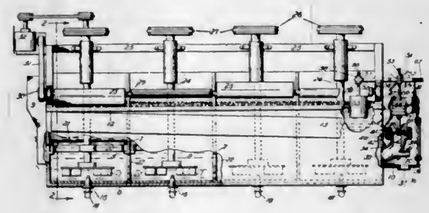
1. In a dirt-separating system, the combination of a fan chamber, a dirt collecting chamber connected with said fan chamber through an inlet opening, a motor-driven fan mounted in said fan chamber, and a dirt-separating member driven by said motor and comprising a rigid screen mounted to rotate within said collecting chamber and to enclose a space surrounding said inlet opening, and means for directing a counterflow of air from said fan chamber into the space enclosed by said screen and against a portion of its internal surface.

2,167,787
RADIO DIRECTION FINDER
Stephan R. Wagner, Elizabeth, N. J., assignor to Federal Telegraph Company, Newark, N. J., a corporation of California
Application June 15, 1937, Serial No. 148,278
12 Claims. (Cl. 250—11)



4. In a radio signal direction finder for use on a movable ship, the finder having a directional antenna and being of the type wherein by manually setting the antenna to a desired relationship with a signal an indicator is caused to indicate the bearings of the signal, a unitary control and indicating mechanism comprising a stationary frame member, a handwheel rotatably mounted on said frame member, a driving gear adapted to be rotated by said handwheel, a pointer carried by a shaft which is driven by said handwheel and is rotatably mounted on said frame member inside of said handwheel, two concentric dials of which one is rotatably mounted on said frame member outside of said pointer shaft and encompassed during rotation by said handwheel, said whole unitary mechanism being readily removable from the remainder of the direction finder, and a driven gear connected to rotate the directional antenna, said gear being adapted to engage the driving gear of the unitary mechanism when said mechanism is in place in the direction finder.

2,167,788
FLOTATION APPARATUS
Arthur J. Weinig, Golden, Colo., assignor, by mesne assignments, to Morse Bros. Machinery Company, Denver, Colo., a corporation of Colorado
Original application March 1, 1935, Serial No. 8,946, now Patent No. 2,143,669, dated January 10, 1939. Divided and this application October 12, 1936, Serial No. 105,280
1 Claim. (Cl. 209—169)

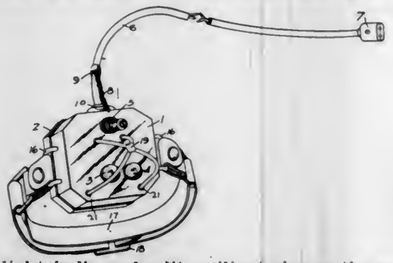


Flotation apparatus, comprising a tank having a feed inlet and having a discharge outlet determining a liquid level in the tank, a plurality of partitions dividing the tank into a series of cells, and a rotary impeller adjacent the bottom of each cell, there being a plurality of open passages, at different elevations in each partition providing intercommunication, between adjoining cells, the lowermost passage being at the approximate level of the impellers and passages disposed in alinement with the discharge outlet for the direct movement of nonfloated material through the series of cells to the outlet, said outlet including a small constantly open portion and another opening provided with a valve, and means for controlling the opening of said valve in accordance with change in level of the liquid in the cells.

2,167,789
PORTABLE ELECTRIC LAMP
Bert E. White, Spokane, Wash.
Application February 21, 1938, Serial No. 191,673
3 Claims. (Cl. 240—59)

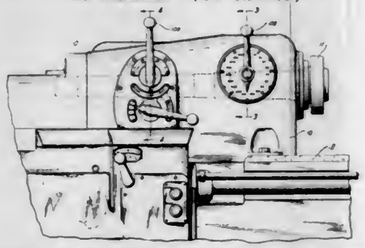
1. In a self-contained, portable, electric lamp, the combination with a casing having a recessed spring clip on its rear face, a light-bulb and a spaced control-switch on its front face, and said casing having a number of sockets arranged

around the light-bulb, of a detachable guard for



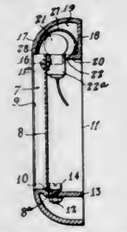
the light-bulb, and split resilient pins on the guard fitted in said sockets.

2,167,790
LATHE
Alexander G. Whitehead, Hartford, and Robert R. Raber, West Hartford, Conn., assignors, by mesne assignments, to Niles-Bement-Pond Company, New York, N. Y., a corporation of New Jersey
Application July 8, 1935, Serial No. 30,302
15 Claims. (Cl. 82—29)



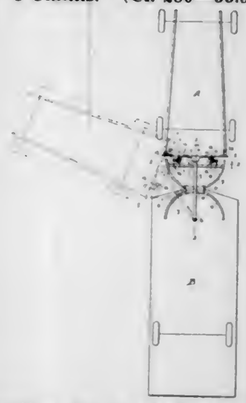
1. In a hydraulic speed changing system for machine tools having a spindle and driving means therefor including a plurality of members to be shifted to change the speed of said spindle, the combination of shifting members therefor each having a piston thereon, cylinders within which said pistons operate, a source of fluid under pressure, a distributing system for said fluid including a main distributing valve movable to different positions for the different speeds of said spindle, a manually controlled valve controlling operation of said spindle driving means and also controlling movement of said shifting members when said distributing valve is moved to different positions, and means preventing movement of said manually controlled valve while said members are being shifted.

2,167,791
COMBINED BUMPER AND LICENSE PLATE HOLDER
Evan E. Wyatt, Los Angeles, Calif.
Application October 15, 1937, Serial No. 169,147
9 Claims. (Cl. 40—130)



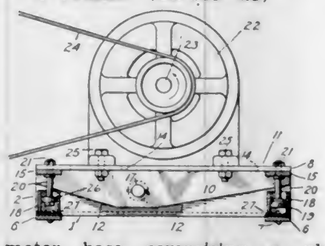
8. An automobile bumper having a face-plate, a license plate carried by the bumper in an inclined position, and illuminating means carried by the bumper behind the face-plate and beyond the horizontal upper edge thereof, said face-plate concealing the illuminating means from view.

2,167,792
DRAFT CONNECTION BETWEEN VEHICLES
William J. Alexander, Carthage, Mo.
Application June 10, 1938, Serial No. 213,070
5 Claims. (Cl. 280—33.5)



2. A coupling for connecting a draft vehicle and a trailer vehicle, comprising a draw-bar; a pivotal connection between said draw-bar and each of said vehicles, one of said connections being arranged to provide for universal movement; intermeshing gear elements, one supported by one of the vehicles and the other by the draw-bar; means for maintaining said gear elements in mesh and in the same plane while the vehicles are coupled together; and a pivotal connection between one of the vehicles and the gear element supported by the draw-bar, disposed in the transverse plane of said universal connection.

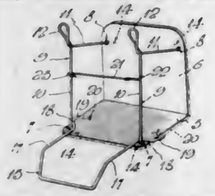
2,167,793
MOTOR BASE
Elbert S. Barger, Paducah, Ky.
Application March 15, 1938, Serial No. 196,078
5 Claims. (Cl. 248—23)



1. A motor base comprising a platform mounted for pivotal movement about an axis parallel with the motor shaft, means for securing a motor to said platform, and dash pot means for retarding oscillatory movement of said platform about said axis.

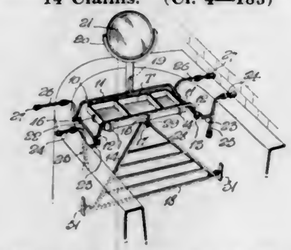
2,167,794
CHILD'S SWING
George B. Bentz, Bronx, N. Y.
Application July 15, 1938, Serial No. 219,449
10 Claims. (Cl. 155—58)

2. A swing comprising a seat, a back connected therewith, and two vertical side guards each having connected vertical and horizontal rod portions pivotally connected with said seat and said



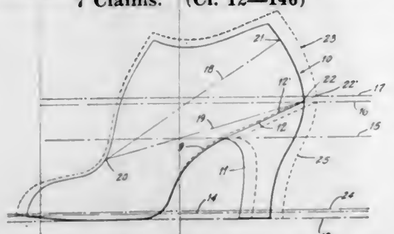
back respectively and foldable inwardly into the angle between said seat and back, said side guards having portions for connection to suspending ropes or the like.

2,167,795
VANITY ATTACHMENT FOR BATHTUBS
George B. Bentz, Bronx, N. Y.
Application July 28, 1938, Serial No. 221,837
14 Claims. (Cl. 4—185)



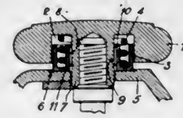
1. A vanity attachment for a bathtub, comprising an elongated member to extend transversely of the tub, horizontally projecting means at each end of said member to rest upon the tub rim and support said member between the tub ends, or at the foot-end of the tub having the usual curved corners, or at the head-end having the usual curved wall, said member having one edge to be always disposed toward the center of the tub when said member is supported at either end of the latter, and downwardly projecting tub-abutting means on said member to abut the inner side of the tub to hold said member against sliding transversely of the tub, said downwardly projecting tub-abutting means being located only toward said one edge of said member, whereby said downwardly projecting tub-abutting means cannot interfere with movement of said member well onto either end of the tub rim.

2,167,796
METHOD OF MAKING SHOE LAST MODELS
William M. Biddle, Collingswood, N. J.
Application May 10, 1937, Serial No. 141,591
7 Claims. (Cl. 12—146)



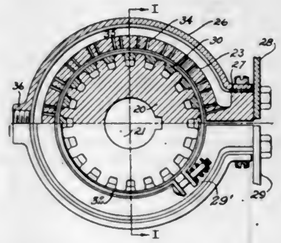
1. The method of constructing a last model comprising turning a last model of a greater length from a master model of a lesser length, and permanently lowering the heel seat of said model relative to the upper portion thereof to effect in the said model a heel height, heel pitch and toe spring substantially the same as the corresponding features in the master model.

2,167,797
KEYLESS WINDING FOR WATCHES
Henri Colomb, Lausanne, Switzerland
Application December 7, 1937, Serial No. 178,620
In Switzerland February 26, 1937
8 Claims. (Cl. 58—90)



2. A keyless winding for a watch comprising a crown having a recess and a socket, said socket receiving the winding stem of said watch, a sleeve slidably mounted in said recess, a spring urging said sleeve from said recess and against the casing of said watch in order to prevent dust from entering said watch, said sleeve having a hollowed out portion serving as a part housing for said spring and means upon said sleeve and socket limiting the movement of said sleeve from said recess.

2,167,798
APPARATUS FOR HEAT TREATING GEARS AND THE LIKE
Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application August 19, 1935, Serial No. 36,843
11 Claims. (Cl. 266—5)

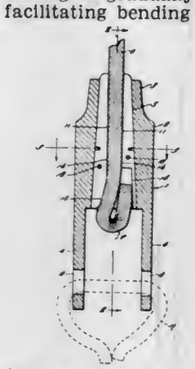


1. In apparatus for hardening gears, an inductor surrounding a gear to be hardened, means for supplying high frequency current to said inductor, and a current conductor adapted to fill a portion of the space between adjacent teeth of the gear.

2,167,799
CABLE CLAMP
Bruce L. Donald, Niagara Falls, N. Y., assignor of one-third to Francis T. Findlay and one-third to George A. O'Neil, both of Niagara Falls, N. Y.
Application March 2, 1938, Serial No. 193,587
1 Claim. (Cl. 24—136)

In a cable clamp for securing two cables together, a coupling member including a sleeve-like front socket part having a hexagonal bore extending longitudinally therethrough and tapering toward one end of said part, a pair of

apertured arms extending from the opposite end of said part upon opposite sides of said bore, respectively, for attachment of one cable thereto, an elongated clamping unit corresponding in shape to said bore and similarly tapered for insertion into said bore with a wedging action and comprising a pair of sections mating in side-by-side relation and longitudinally grooved to fit against opposite sides of the other cable in slightly spaced apart relation whereby said sections are urged into clamping relation to said cable under wedging action of the unit, the groove in one section having a gradually deepened rear end portion facilitating bending the tail end of



the cable back upon itself into loop formation, and the groove in the other section having a pocket portion opposed to the deepened portion for receiving the tail end of the cable and clamping said tail end against the cable in said deepened portion, means to facilitate mating the sections comprising a pair of dowel pins extending from one section adjacent the rear end thereof, the other section having apertures therein for receiving said pins, and means to detachably secure the sections together comprising a split resilient ring, the sections being grooved substantially midway of the ends thereof to receive said ring.

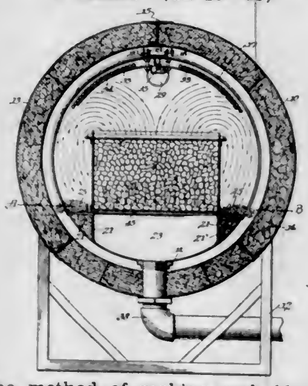
2,167,800

PROCESS FOR MANUFACTURE OF CORK BLOCK AND INSULATION

Paul E. Flotron, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York

Application June 11, 1936, Serial No. 84,754

8 Claims. (Cl. 18—48)



1. The method of making cork block which comprises confining cork particles in a perforate mold and substantially enveloping the mold by an atmosphere of steam within an air-tight chamber, externally heating the chamber to raise the temperature of the steam therein and thereby heating the mold and cork, and inducing the heated steam to travel into the mold to penetrate the cork mass therein.

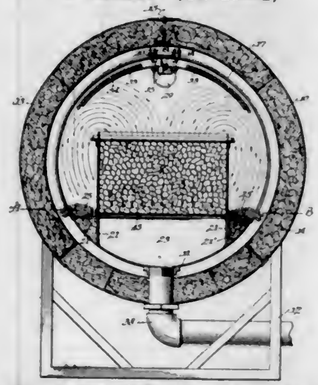
2,167,801

APPARATUS FOR MANUFACTURE OF CORK BLOCK AND INSULATION

Paul E. Flotron, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York

Original application June 11, 1936, Serial No. 84,754. Divided and this application October 23, 1936, Serial No. 107,281

8 Claims. (Cl. 18—1)



8. An apparatus of the class described comprising a heating chamber, a mold of less area than the chamber within the same having its top and side walls spaced from the wall of the chamber to provide a continuous gas circulating space about the top and side walls, means for supporting the mold within the chamber, said mold having perforate walls whereby its interior is in communication with the said chamber, said supporting means being disposed at the bottom of the chamber and extending longitudinally thereof and the mold forming with said supporting means and the bottom wall of the chamber a second chamber communicating with the first chamber through said mold, means for heating the first chamber comprising an electrical resistance disposed externally of the first chamber adjacent the wall thereof which comprehends the top and side walls of the mold, and means for introducing a gaseous fluid into the chamber, said means comprising a coil supported at the top of the chamber above the top of the mold and in close proximity to the chamber wall whereby fluid in said coil will be subject to heat from said heating means, said coil having outlets directing the fluid toward the heated chamber wall, and an outlet communicating with said second chamber.

2,167,802

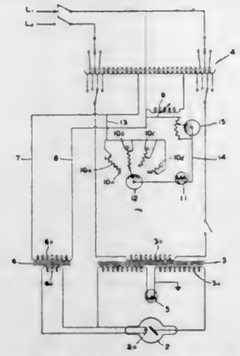
X-RAY TUBE CONTROL MEANS

Edwin R. Goldfield, University Heights, Ohio, assignor to Picker X-Ray Corporation Waite Manufacturing Division, Inc., Cleveland, Ohio, a corporation of Ohio

Application September 30, 1938, Serial No. 232,617

3 Claims. (Cl. 250—103)

1. An X-ray apparatus comprising an X-ray tube, a source of high-tension current therefor and a filament transformer having its secondary connected with the tube filament and having its primary connected by a pair of conductors with a source of current, the combination of means for varying the current in said transformer primary, a selector switch having a plurality of contacts, a plurality of variable resistances, one for each of said contacts, said resistances being connected between said contacts and one of said conductors,



a milliammeter connected in series between said switch and the other of said conductors, said milliammeter having a predetermined indication, and said indication and each of said resistances being so arranged that placing one of said resistances in series with said milliammeter by means of said switch and varying the current in said transformer primary until said milliammeter registers with said indication will cause a predetermined current flow in said tube filament.

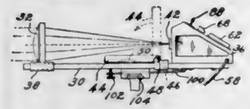
2,167,803

HEADLIGHT TESTING APPARATUS

George M. Graham and Charles W. MacMillan, Detroit, Mich., assignors to Hinckley-Myers Company, Jackson, Mich., a corporation of Michigan

Application June 28, 1937, Serial No. 150,726

4 Claims. (Cl. 88—14)



1. An apparatus for testing the headlights of motor vehicles comprising, in combination, a supporting bar adapted to be positioned in front of a headlight of a motor vehicle in longitudinal relationship to a beam of light issuing therefrom, a unitary housing structure supported on said bar and enclosing light sensitive headlight testing mechanism, said housing having an aperture in one face thereof opening longitudinally parallel to the bar, a light condensing lens supported on said bar in spaced relationship to the apertured face of said housing, said lens and the aperture of the housing disposed in alignment so that when the supporting bar is positioned in longitudinal relationship in front of a headlight of a motor vehicle the beam of light issuing from the latter is condensed by the lens and directed through the aperture of the housing for light testing purposes, a headlight alignment testing screen, and hinge means pivotally connecting the screen to the top of said bar about an axis transverse thereto for movement from an upright position between the lens and the apertured face of said housing but adjacent to the latter where it is capable of intercepting the light condensed by said lens to a folded position upon the top of the bar and thus allow an uninterrupted condensed beam of light to enter the aperture in the housing.

2,167,804

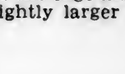
DYESTUFFS CONTAINING SIMULTANEOUSLY RADICALS OF ANTHRAQUINONE DYESTUFFS AND AZO DYESTUFFS AND PROCESS OF MAKING THE SAME

Hans Gubler and Eduard Bernasconi, Basel, Switzerland, assignors to firm of Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application October 26, 1935, Serial No. 46,956. In Switzerland November 8, 1934

19 Claims. (Cl. 260—153)

1. Process for the manufacture of dyestuffs, consisting in combining a blue α-amino-anthraquinone dyestuff containing at least one primary amino-group with a yellow aminoazo-dyestuff with the aid of a heterocyclic compound characterized by a heterocyclic six-membered ring consisting itself only of N and C atoms and of at least 3 and at the most 4 carbon atoms and of at least 2 and at the most 3 nitrogen atoms, and in which ring the atom grouping



is present at least twice and at the most three times, the amino-anthraquinone dyestuff and the yellow aminoazo-dyestuff being selected in such a manner that at least one of the two components contains a sulfo-group.

2,167,805

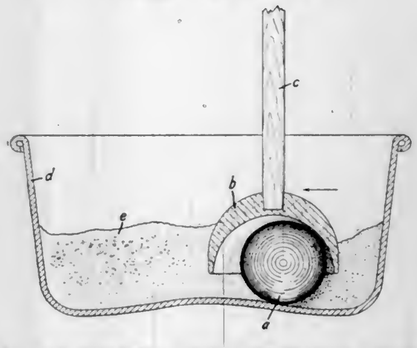
APPARATUS FOR MIXING DIFFERENT OR SIMILAR SUBSTANCES

Oscar Hummel, Stuttgart-Rohr, Germany

Application March 8, 1937, Serial No. 129,670

In Germany October 26, 1936

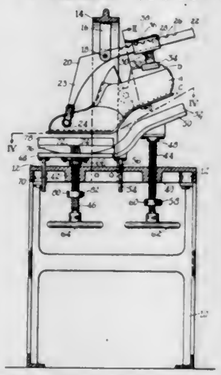
1 Claim. (Cl. 259—99)



An apparatus for mixing substances, comprising in combination with a mixing vessel containing the substances to be mixed, a spherical mixing member adapted to be placed in the substance to be mixed, a cup-shaped cage adapted to be inverted over said mixing member and covering approximately one half the spherical mixing member when in contact therewith, and which contact surface of the cage has a radius of spherical curvature slightly larger than the spherical

surface of the mixing member, a stem secured to the cage for imparting a movement to said cage, said cage having a peripheral edge extending in a direction which is approximately parallel to the longitudinal axis of the stem.

2,167,806
MACHINE FOR USE IN APPLYING PRESSURE TO SHOE BOTTOMS
Euclid I. La Chapelle, Brockton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application April 16, 1937, Serial No. 137,295
7 Claims. (Cl. 12—33)



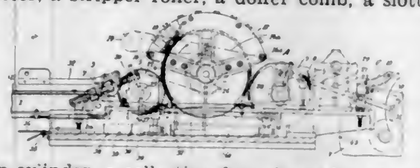
1. A machine for applying pressure to shoe bottoms having, in combination, means for supporting a shoe, a single member for applying pressure to the rear portion of the shoe bottom from its ball line to its heel end, another single member for applying pressure to the forepart of the shoe bottom from said ball line to its toe end, and means for controlling the pressure that can be applied to the forepart of the shoe bottom by said member.

2,167,807
HALOGENATED AMINES AND A PROCESS OF MAKING THEM
Leon Lilienfeld, Vienna, Austria; Paul Abel, Vienna, Austria (Germany), or in the case of his inability to act Emerich Hunna, Vienna, Austria (Germany), executors, and Antonette Lilienfeld, Vienna, Austria (Germany), sole heir of Leon Lilienfeld, deceased
No Drawing. Application October 3, 1933, Serial No. 692,037. In Great Britain July 4, 1931
10 Claims. (Cl. 260—585)

1. As new products, aliphatic organic bases derived from glycerine, by action of aqueous ammonia solution upon a glycerine dihalogenhydrin, which bodies are water-soluble, but alcohol-insoluble, of tough, viscous to resinous consistency which contain nitrogen, halogen and oxygen all linked to carbon, and which, on being decomposed with hydriodic acid, yield C_3H_7I.

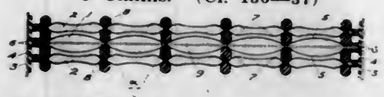
2,167,808
MEANS FOR PRODUCING A TESTING THREAD
Paul Litty, Leipzig, Germany
Application June 12, 1937, Serial No. 147,970
In Germany June 13, 1936
9 Claims. (Cl. 19—98)

1. A device for making a testing thread from a quite small quantity of fibrous material, for instance 50 gms., for ascertaining the spinning capacity and the properties of the fibrous material as regards strength, comprising a conveyer band, a feed trough, a licker-in, a main cylinder having a diameter less than twenty inches, a cover sector, a stripper roller, a doffer comb, a slotted



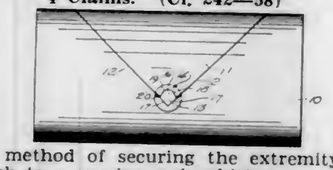
lap cylinder, a collecting funnel capable of being moved into and out of the operative position in order to work up the lap a second time on the same carding engine and to form it into a sliver of very great uniformity.

2,167,809
ELECTRIC ALKALINE ACCUMULATOR
Carl Hilding Ossian Lübeck, Islingehill, Lidingo, Sweden
Application June 10, 1936, Serial No. 84,557
In Sweden July 30, 1932
9 Claims. (Cl. 136—37)



9. In an alkaline accumulator, a positive electrode comprising in combination a layer of active material contained in said electrode, two integral perforated sheet metal walls enclosing said layer and being formed with parallel bulges shaped in cross-section as circular arcs with angles at center less than 180° and separated by grooves, and rigid connections between the bottoms of adjacent grooves preventing alteration of the distances between the grooves by internal pressure in the active material.

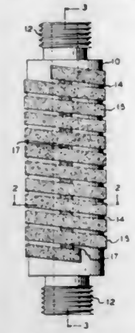
2,167,810
METHOD OF WEB RENEWING
Alfred Henry Mackley, Bedford, England
Application March 29, 1937, Serial No. 133,747
In Great Britain March 31, 1936
4 Claims. (Cl. 242—58)



1. A method of securing the extremity of a new web to a moving web which is nearly exhausted, which comprises gumming a tab of paper or like material with an opening in it over the extremity of the fresh web so as to fasten it down against the adjacent turn of the roll with the opening exposing a considerable area of the extremity of the web and not exposing the said adjacent turn, applying gum or glue to said extremity through said opening and bringing the glued area into contact with the old web, so that it is carried along thereby, whereupon said tab fractures.

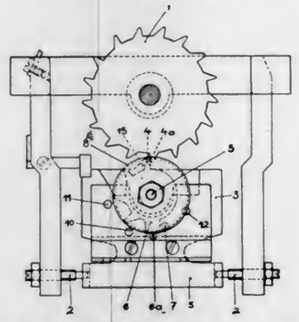
2,167,811
PISTON
John N. Martin, Tulsa, Okla.
Application August 12, 1937, Serial No. 158,766
8 Claims. (Cl. 309—4)

6. A piston comprising a cylindrical body, a helical member rigidly united with the outer surface of said body and extending laterally therefrom, the convolutions of said member being spaced apart forming a helical groove about said body, a continuous packing element mounted in said groove in fluid-tight engagement therein throughout its length and protruding



radially thereof, and discontinuous packing elements mounted between adjacent convolutions of said packing element and in fluid-tight engagement therewith, said discontinuous packing elements protruding radially to the outer periphery of said continuous packing element.

2,167,812
ESCAPEMENT DEVICE FOR TYPEWRITING MACHINES
Karl Reinhold Müller, deceased, late of Neugersdorf, Germany, by Hermann Güttler, administrator, Dresden, Germany, assignor to Firma A. G. vorm. Seidel & Naumann, Dresden, Germany, a corporation of Germany
Application July 24, 1936, Serial No. 92,379
In Germany July 20, 1934
10 Claims. (Cl. 197—84)

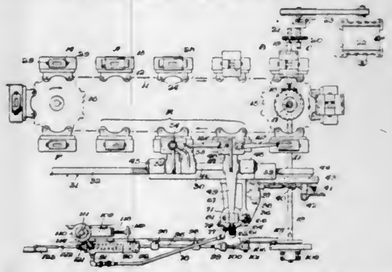


1. In a typewriting machine, in combination with the movable carriage, of a single escapement wheel for controlling the feed of said carriage, a fixed and a loose pawl in operative relationship to said escapement wheel, a rocking member carrying said pawls, a rigid abutment for stopping the feed of said carriage, movable abutments for different spacing movements of said carriage, means for selectively moving said abutments into operative position, said loose pawl being rotatably mounted in said rocking member and having the shape of a toothed sector adapted to engage said escapement wheel by the sequence of its teeth when said fixed pawl is disengaged therefrom and cooperating with said abutments for different spacing movements.

2,167,813
PROCESS FOR PATINATING WOOD AND OTHER VEGETABLE MATERIALS
Eugène Plantrou, Rouen, France
No Drawing. Application January 31, 1939, Serial No. 253,942. In Luxemburg, February 17, 1938
1 Claim. (Cl. 41—41)

A process for imparting, by means of a dry treatment, to wood, wooden furniture, straw, rattan, rushes and other products of vegetable nature, a similar colouring to that due to time, said process consisting, in principle, in subjecting said products or articles to the action of one or a plurality of oxygenated compounds of nitrogen, preferably in the nascent state and, in particular, to the action of the mixture called "rutilant vapours".

2,167,814
CARTON BOTTOM SEALING MACHINE
Charles F. Richard, Battle Creek, Mich., assignor to Johnson Automatic Sealer Co., Ltd., Battle Creek, Mich., a limited partnership association of Michigan
Application April 23, 1938, Serial No. 203,929
22 Claims. (Cl. 93—44)
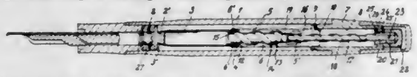


1. In a machine for bottom sealing cartons, a plurality of continuously movable forming blocks adapted to receive and carry carton blanks with the bottom flaps of said blanks upstanding above the top surfaces of said blocks, means for applying adhesive to said flaps, means operative subsequently to the adhesive applying means for folding said flaps into superposed position to overlie the top surfaces of said forming blocks, and means for applying pressure to said folded flaps to insure the sealing together thereof, said pressure applying means including a member movable into contact with the uppermost flap of each carton and adapted to compress the folded flaps thereof against the top surface of the forming block, fluid pressure operated means for moving said member into pressure applying position, and means for reciprocating said pressure applying means parallel to a portion only of the path of movement of said forming blocks, whereby said means is cyclically operative upon the flaps of cartons carried by successive forming blocks.

2,167,815
FOUNTAIN PEN
Ernst Richard Albert Gustav Rösler, Heinrich Wilhelm Schwarting, and Konrad Richard Wilhelm Kressel, Hamburg, Germany, assignors to the firm of Montblanc-Simplo Gesellschaft mit beschränkter Haftung, Hamburg, Germany
Application March 10, 1938, Serial No. 195,136
In Germany April 2, 1937
10 Claims. (Cl. 120—47)

1. In a fountain pen, a suction piston recipro-

catable in said pen, a spindle operatively connected to said piston for reciprocating the latter, a screw cap for operating said spindle, said screw cap



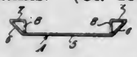
forming a closure for the rear end of said pen, and coupling means between said screw cap and said spindle, said means permitting a limited idle movement of said screw cap.

2,167,816

FURRING STUD OR STRIP

Frederick M. Small, York, Pa., assignor to Martin-Parry Corporation, York, Pa., a corporation of Delaware

Application October 17, 1936, Serial No. 106,210
4 Claims. (Cl. 189—85)



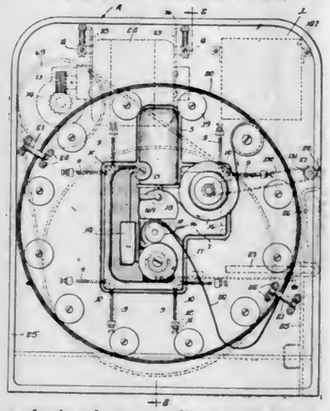
1. An article of manufacture comprising a furring stud or strip, said stud or strip being longitudinally bowed and opposed longitudinal edges being angularly bent to form hollow reinforcing flanges, each having a rearwardly disposed flat contact surface for the strip.

2,167,817

SOUND RECORDER AND REPRODUCER

Harold J. Smith, Riverside, Ill., assignor to Technical Research Corporation, Chicago, Ill., a corporation of Delaware

Application December 9, 1936, Serial No. 115,007
14 Claims. (Cl. 274—11)



6. In a device for recording sound on a moving film, the combination of a stationary film supporting base, a recorder slidably mounted upon said base, means for moving said film between said base and said recorder, a roller member engaging said film, means for rotating said roller for tensioning said film change-over mechanism for moving said recorder step by step transversely of said film, means operated by the film for connecting said change-over mechanism in drive relation with said tensioning means, means associated with said last-mentioned means for operating said mechanism upon completion of a sound track by said recorder to thereby form upon said film a plurality of parallel sound tracks, and means connected to said change-over mechanism and operated thereby for providing a numerical indication of the sound track upon which the recorder is operating.

2,167,818

CONVEYER

Charles W. Wagner, Verdun, Quebec, Canada

Application March 15, 1937, Serial No. 130,831
Renewed April 13, 1939
9 Claims. (Cl. 198—160)



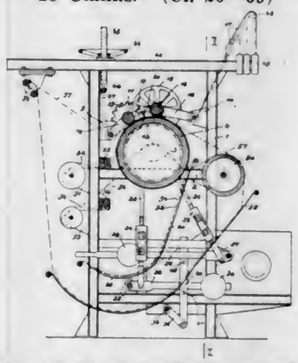
1. A drag conveyer for transporting sheet material comprising a casing provided with sheet material inlet and discharge openings spaced apart longitudinally of the casing, an endless travelling conveyer belt housed in said casing and extending longitudinally thereof, a series of laterally spaced stationary rails interposed between a run of the belt and an opposing wall of the casing and extending from the inlet to the discharge opening, said rails being secured to said casing wall and positioned so that sheet material inserted in the casing through the inlet opening is gripped between the rails and the opposing surface of the belt and dragged along the rails to the discharge opening.

2,167,819

METHOD OF AND APPARATUS FOR PRODUCTION OF RAISED PATTERNS ON FABRICS

Karl Welti, Glasgow, Scotland

Application May 19, 1937, Serial No. 143,633
In Germany September 23, 1936
18 Claims. (Cl. 26—69)



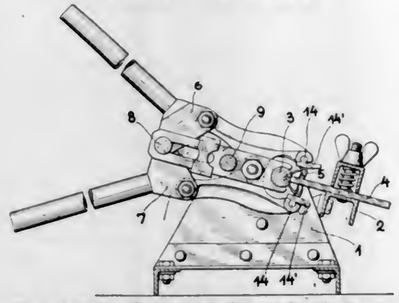
1. In a method of producing raised patterns on fabric, the step which consists in positively feeding the fabric to a heated track at a speed which is greater than that at which the fabric is discharged from the said track by applying braking action against the fabric near the point of discharge by two cooperating rollers and imparting a lesser surface speed to one roller relative to the other roller so as to cause the fabric to bunch together between the points of feed and discharge, and subjecting the fabric to an ironing operation when in the bunched condition.

2,167,820

BELT-HOOK PRESS

Hans-Joachim Ziller, Dusseldorf, Germany, assignor to Paul Wever, Dusseldorf, Germany

Application April 1, 1936, Serial No. 72,155
In Germany March 15, 1935
5 Claims. (Cl. 1—49.4)



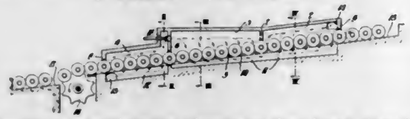
1. In a belt hook press, a frame having a transverse guide member, a belt clamp carried by the forward part of said frame parallel to said guide member, a belt hook holder carried by the frame between said guide member and belt clamp and parallel thereto, a belt hook press slidably mounted on said guide member to move parallel to the belt hook holder, said press including jaws and presser blocks carried thereby and extending forwardly of the belt hook holder, and means for selectively positioning said press on the guide member.

2,167,821

CONTINUOUS HEAT TREATING FURNACE

Guy O. Ackerman, Jr., Worcester, and Peter Stewart, Boylston, Mass., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey

Application November 17, 1937, Serial No. 175,122
5 Claims. (Cl. 263—6)



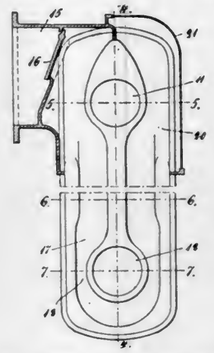
1. In a continuous furnace for heat treating wire and rod stock, an inclined hearth, said hearth having spaced-apart ledges therein extending longitudinally of said furnace, a series of metallic protective heating containers which are adapted to move rotatably over said hearth and through said furnace by means of gravity, each of said containers comprising an inner cylinder having a larger outer cylinder spaced therefrom, and having a flanged disk-like end portion rigidly secured to each end thereof, a removable portion carried by at least one of said disks to give access to the space between the cylinders, said space between the cylinders adapted to receive the coils of wire or rod stock to be treated, the flanges of said disks adapted to cooperate with the ledges in said hearth to guide said containers through the furnace, and means associated with said furnace for controlling the gravitational movement of said containers therethrough.

2,167,822

HEATING RADIATOR

Axel Nore Alexander Andersson, Stockholm, Sweden, assignor to Aktiebolaget Svenska Flaktfabriken, Stockholm, Sweden, a company of Sweden

Application December 28, 1936, Serial No. 117,747
In Sweden February 9, 1935
5 Claims. (Cl. 257—140)



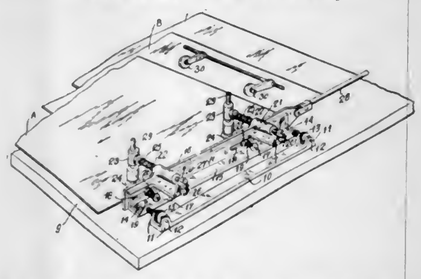
1. A radiator unit for simultaneously heating the air in the locality in which the radiator is situated and ventilating air introduced into said locality, comprising a plurality of mutually intercommunicating hollow vertical radiator sections formed with hollow side flanges which are in direct communication with the interior of the respective sections and adapted to abut tightly against similar side flanges on the adjacent sections so as to form between the sections closed channels each comprising a rear and a front vertical branch, a ventilating air intake duct communicating at the rear of said unit with the rear vertical branch of each section at its upper end and at its lower end communicating with the front vertical branch, and the upper end of said front vertical branch opening directly into the locality to be heated by the radiator.

2,167,823

SHEET FEEDING MACHINE

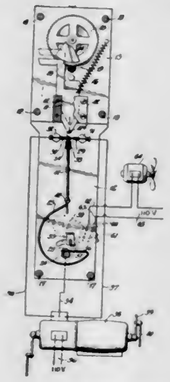
Headley Townsend Backhouse, London, England

Application August 20, 1937, Serial No. 160,149
In Great Britain August 25, 1936
12 Claims. (Cl. 271—59)



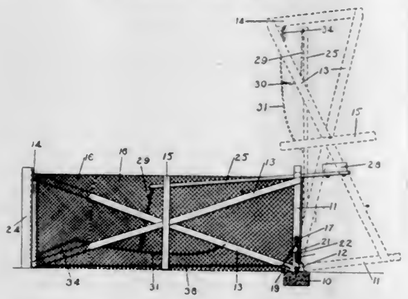
1. In a stream feeder, a feed board, a sidelay comprising a side gauge mounted on the feed board and a plurality of overhead sheet gripping suckers spaced longitudinally moving forwardly and outwardly to draw the leading sheet of the stream sidewise against the side gauge during the forward travel of the sheet.

2,167,824
CONDITION CONTROLLER
Paul S. Bear, Elkhart, and Roy Billings, Wabash, Ind., assignors to Bucklen-Bear Laboratories, Inc., Elkhart, Ind., a corporation of Indiana
Application October 12, 1936, Serial No. 105,194
8 Claims. (Cl. 200—139)



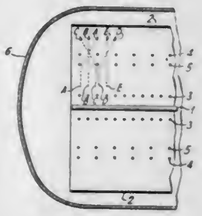
1. In a device of the class described, a condition-responsive element, a member secured thereto, a pointed, double-faced cam movable at regular intervals into and out of engagement with the member, a switch operatively connected to the member so as to be moved thereby to an operative or an inoperative position depending on the position of the element, and means for preventing movement of the element by the cam when the element is in a mid-position.

2,167,825
FARM GATE
Lewis Beard, New Boston, Ill.
Application February 10, 1938, Serial No. 189,749
2 Claims. (Cl. 39—44)



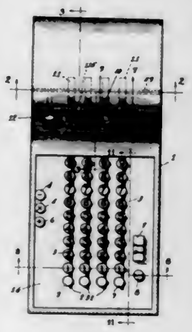
1. A farm gate comprising a pair of panels united in V-form, provided with hinge supports at their wider end, and capable of being rocked into open and closed positions, hand-levers pivotally supported at opposite sides of the gate, connections between said hand-levers and the rocking end of the gate, including pairs of bars on the gate and flexible elements between said bars and the lever, operating to alternately raise and lower the gate, and a balancing apparatus supported between the panels of the gate, and operatively connected with said gate with a shiftable application of force.

2,167,826
ELECTRON DISCHARGE DEVICE
Cabot Seaton Bull, Uxbridge, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application September 10, 1937, Serial No. 163,169
In Great Britain September 18, 1936
1 Claim. (Cl. 250—27.5)



An electron discharge device having a cathode, a control electrode, and an output electrode, a screening electrode disposed between the control electrode and the output electrode and an additional screening electrode interposed between the first-mentioned screening electrode and the control electrode, the screening electrodes being helical grids with the turns aligned the difference between the radii of the helices forming the screening electrode and the additional screening electrode being not greater than the pitch of the turns of wire of the helical grids.

2,167,827
ADDING, SUBTRACTING, AND MULTIPLYING MACHINE
Hugh L. Clary, San Mateo, Calif., assignor to Clary Multiplier Corporation, Los Angeles, Calif., a corporation of California
Application September 27, 1928, Serial No. 308,797
48 Claims. (Cl. 235—61)

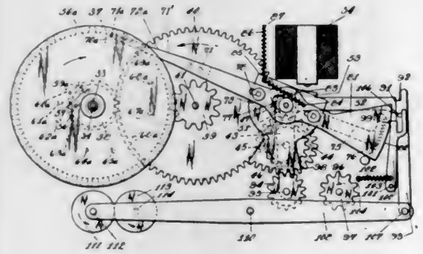


1. An electric calculating machine comprising a plurality of numbered wheels, movable members for rotating said wheels, electrically controlled means for disconnecting said wheels from said members, a plurality of contacts successively closed by said moving members, a plurality of keys wired to the contacts, and contact selecting means positioned mechanically by said keys so as to cause said contacts to indicate the product of the keys depressed.

2,167,828
BIRD SHOT
Ralph L. Dowdell, St. Paul, and Robert G. Green, Minneapolis, Minn., assignors to Regents of the University of Minnesota, Minneapolis, Minn., a corporation of Minnesota
No Drawing. Application July 19, 1935, Serial No. 32,273
8 Claims. (Cl. 102—26)

4. A shot comprising an alloy of lead with a metal which is anodic to lead in the electromotive series of metals, said metal being present in a quantity not substantially less than two percent.

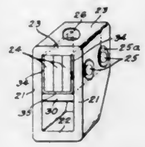
2,167,829
CONTROL SYSTEM AND APPARATUS
Ernest A. Faller, Brooklyn, N. Y.
Application June 1, 1931, Serial No. 541,402
9 Claims. (Cl. 58—35)



7. In combination, time mechanism including an electrical driving motor and a dial train and hands; correcting means for said dial train and hands adapted to be driven by said motor and normally disconnected from said motor; an armature operated in response to received signals; means operated by said armature and adapted to disconnect said motor from said dial train and hands and to connect it to said correcting means in response to received signals; and means conditioned by operation of said armature to control the operation of said correcting means, said control means being operable to disconnect said motor from said correcting mechanism and to connect it to said dial train and hands in normal drive relationship after the completion of the correcting operation.

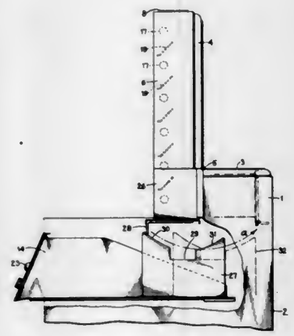
2,167,830
PICKER FOR LOOMS
Joseph F. Foehr, Garden City, N. Y.
Application January 13, 1937, Serial No. 120,387
4 Claims. (Cl. 139—159)

1. A picker of the character described comprising an integrally formed body in one piece composed largely of fabric, said body including side walls extending to the face of the picker and a connecting end wall forming a loop for the picker stick, a head including a plurality of pieces of leather or hard rawhide placed side by side between and parallel to the side walls, rivets extending transversely through the side walls and said head pieces to secure them together, and a cushioning member located over and in contact with the inner edge of the head extending between



the side walls and adapted to contact directly with the picker stick.

2,167,831
HAIR WAVING APPARATUS
Ernest O. Frederics, Bronxville, N. Y., assignor to E. Frederics, Inc., New York, N. Y., a corporation of New York
Application December 29, 1937, Serial No. 182,214
17 Claims. (Cl. 132—36)

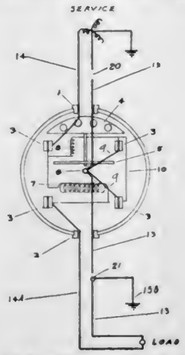


1. Hair waving apparatus comprising a cabinet and a cover hingedly connected thereto, heater elements mounted in said cover for movement therewith into and out of operating position, an air inlet in said cabinet located below and to the rear of said heater elements, and an opening in the front of said cover arranged to permit air to be drawn into said air inlet and past said heater elements, thence out at the front of said cover when the cover is in closed position.

2,167,832
ELECTRIC WATT-HOUR METER
Frederick P. Fulmer, Trussville, and Joseph S. Hollingsworth, Tarrant, Ala., assignors of thirty per cent to said Fulmer, forty per cent to Charles Denegre, Birmingham, Ala., and thirty per cent to R. C. Todd, Trussville, Ala.
Application May 3, 1937, Serial No. 140,304
3 Claims. (Cl. 171—34)

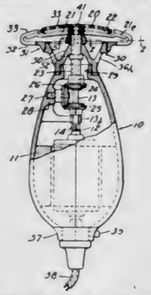
3. A fraud prevention assembly for watt-hour meters, for use with a multiple wire grounded neutral system, comprising a sealed type meter casing, voltage and current windings mounted therein, a grounding stud mounted in the rear wall of said casing, said casing having an aperture therein through which a snugly fitting bare ground wire is passed for connection to said

grounding stud, the main ground wire of the system being connected to said grounding stud



and bare wire, the other end of said bare wire being in contact with the earth.

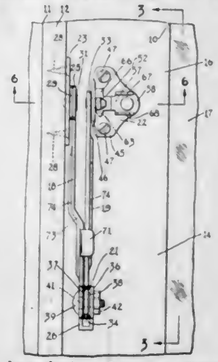
2,167,833
CUTTING DEVICE
Jacob Gold, Hollywood, Calif.
Application March 30, 1938, Serial No. 198,903
7 Claims. (Cl. 30—43)



1. In a device of the kind described, a safety plate having through it a multiplicity of hair admission openings with internal cutting edges, a handle member whereby said plate is supportable in an operative position, an annular stationary guard plate surrounding said safety plate and supported by said handle member, said guard plate also having hair admission openings with internal cutting edges, said guard plate serving to increase the face-engaging area of the device, a rotary cutter means having a peripheral portion positioned to cooperate with the cutting edges of said guard plate and a central portion positioned to cooperate with the cutting edges of said safety plate, and means carried by said handle member simultaneously to rotate said safety plate and cutter means in opposite directions.

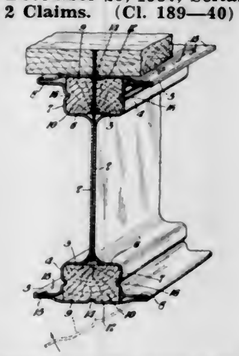
2,167,834
SASH STAY AND FASTENER
Chester O. Goserud, St. Paul, Minn.
Application October 23, 1937, Serial No. 170,672
10 Claims. (Cl. 292—263)

1. A sash fastener comprising a pair of jointed arms, a mounting pivoted to the end of one of said arms, a pintle issuing from the end of the other arm and being constructed with a groove, a bracket having a base and a flange extending therefrom, said flange being formed with an opening adapted to receive said pintle, said opening having a reduced portion forming a bearing for said pintle and receiving said groove, said reduced portion being disposed away from the



base of the bracket, a keeper pivoted to the base of said bracket and having a part adapted to extend between said base and pintle for urging said pintle into engagement with said bearing.

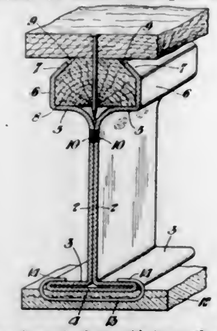
2,167,835
STRUCTURAL JOIST OR NAILER STUD
Gerald G. Greulich, Mount Lebanon, Pa.
Application December 29, 1937, Serial No. 182,352
2 Claims. (Cl. 189—40)



1. A structural member comprising a solid web and an enlarged head portion at one end of said web, said enlarged head portion comprising a channel and a nailing strip positioned within said channel and extending above the channel sides, said nailing strip covered by a sheet metal member connected to the sides of said channel.

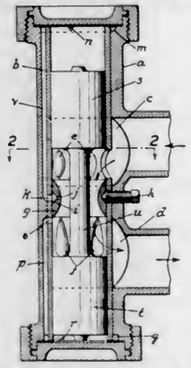
2,167,836
HEAVY NAILER JOIST
Gerald G. Greulich, Mount Lebanon, Pa.
Application December 29, 1937, Serial No. 182,353
1 Claim. (Cl. 189—40)

A nailer joist or stud comprising a web portion having a double thickness of material contacting each other and welded together, flanges extending from said web portion, the flanges at one end of said web portion bent outwardly from the vertical plane of said web and upwardly and angularly inward to provide an enlarged head portion, the flanges at the other end of the web extending outwardly from their vertical plane to form inner flange members and backwardly to form an outer flange member so that said flange members are in spaced superimposed relation to each other, and a nailer strip positioned within said enlarged head portion, said nailer strip provided with beveled corner portions, said angular inward portions of said enlarged head adapted to



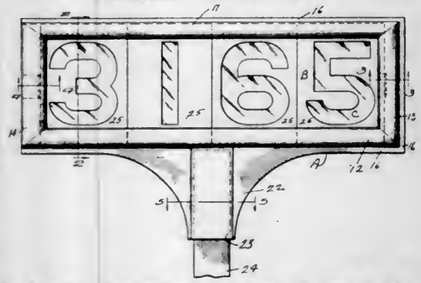
contact the beveled portions of said nailer strip so as to exert a wedge-like action on said nailer strip to hold the same securely in position with said enlarged head portion.

2,167,837
LIQUID FLOW REGULATING MEANS
Selden H. Hall, Poughkeepsie, N. Y., assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application June 7, 1937, Serial No. 146,825
5 Claims. (Cl. 137—152.5)



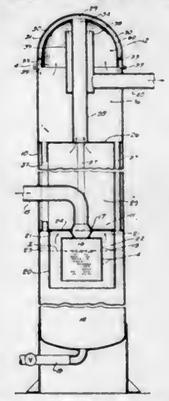
4. Means to maintain substantial uniformity in rate of flow of a liquid through a passage, which comprises a cylinder interposed in said passage and provided with an inlet port communicating with an inflow section of the passage and an outlet port communicating with an outflow section of the passage, a piston in said cylinder operating as a valve to throttle said outlet port and having each of its faces under the influence of the pressure in the end of the cylinder adjacent to such face, means between said inlet port and said outlet port being first restricted to convert pressure energy into velocity energy and thereby create a zone of relatively low pressure and beyond said restriction being enlarged to reconvert velocity energy to pressure energy and thereby create a zone of relatively high pressure, means providing forces adapted to hold the piston in position to maintain a uniform flow of liquid through the outlet port, said means including a pressure transmitting channel between said lower pressure zone and one end of the cylinder and a pressure transmitting channel between said higher pressure zone and the other end of the cylinder, any variation in the rate of liquid inflow thus changing said pressure differential and thereby moving the piston in one direction or the other to move said piston valve into position to effect an opening of the outlet port to the extent required to maintain the liquid outflow substantially constant.

2,167,838
SIGN
Edwin B. Hand, Cleveland Heights, Ohio
Application August 1, 1938, Serial No. 222,493
7 Claims. (Cl. 40—140)



6. A sign comprising a pair of metal frame parts, each part being in the form of an open frame work and having a continuous depression therein, each of said parts having complanar abutment flanges around the outer edges of three sides thereof, said parts being secured together with said flanges in abutting engagement, and with the inner edges in spaced relation to provide a continuous channel, open at its inner periphery, the outer edges of the fourth side of said parts being spaced to provide a slot for access to said channel, and a plurality of indicia elements disposed within said channel between said spaced inner edges, said elements being removable through said slot.

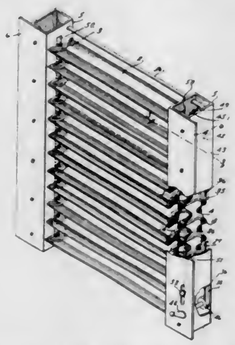
2,167,839
SEPARATOR
Elting Henderson, Huntington Park, John B. Reddick, Los Angeles, and Bernard M. Laulhere, Walnut Park, Calif., assignors to The Fluor Corporation, Ltd., Los Angeles, Calif., a corporation of California
Application March 5, 1938, Serial No. 194,118
5 Claims. (Cl. 183—107)



1. In a separator of the character described, a

vertically extending shell, spaced inner and outer walls curved downwardly and outwardly about a chamber enclosed within and defined by said inner wall, said chamber having upwardly decreasing horizontal cross sectional area, said outer wall being an upper continuation of the shell and forming with said inner wall an annular separating passage having an upper inlet end and a lower outlet end communicating with said chamber, said passage having progressively increasing cross sectional area from its inlet end to said outlet end and an extended curvature of at least about 180° such that liquid entrainment in the gas flowing at progressively reduced velocity through the passage is thrown centrifugally against said outer wall, means forming a gas outlet within the upper interior of said chamber a substantial distance above the bottom of said inner wall, and means for passing gas downwardly through said separating passage into an enlarged space within the shell below said chamber, the gas then reversing its flow and passing upwardly at increasing velocity within said chamber to said outlet.

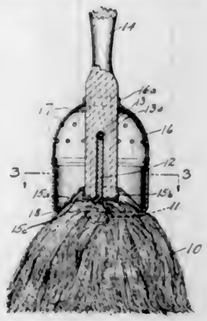
2,167,840
VENETIAN BLIND
Bert H. Hepworth, Phoenix, Ariz.
Application October 17, 1938, Serial No. 235,466
6 Claims. (Cl. 156—17)



1. A Venetian blind comprising, in combination, a plurality of shutter slats, slat clips removably attached to the ends of each of said slats, linkage interconnecting said slat clips whereby said slats are adjustably held in uniformly spaced superposed position, means for suspending said shutter within a window area, and means for adjusting the position of said slats, including a rod mechanism for regulating the angle of the slats, and a draw tab for closing the space between said slats.

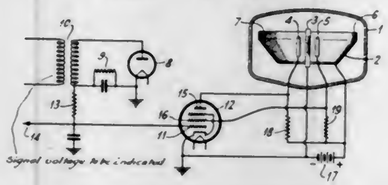
2,167,841
DISH MOP
Harry Hertzberg, New York, N. Y., assignor to Hertzberg Patents, Inc., New York, N. Y., a corporation of New York
Application May 7, 1937, Serial No. 141,235
8 Claims. (Cl. 15—122)

8. A mop comprising a handle having an axial bore, mopping material at the end of said handle, a cup shaped member between said handle and mopping material, said cup having a central depressed portion provided with a central opening in alignment with said axial bore, the end of said handle being seated in said depressed portion, said cup being provided with perforations aligned with the mopping material, a tang passing through the mopping material, the central opening in the cup and into the axial bore of the handle for fastening the handle, cup and mopping



material together and a cover for said cup, said cover having a central opening adapted to coact with said handle to guide said cover to closed position on the cup.

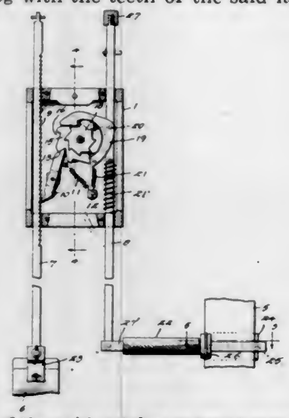
2,167,842
ELECTRON RAY VOLTAGE INDICATOR
Keene S. Jackson, Springfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application May 27, 1938, Serial No. 210,335
4 Claims. (Cl. 171—95)



2. A visual indicator of variable voltages comprising a cathode, a target facing said cathode which fluoresces upon electron bombardment, two spaced ray-control electrodes between said cathode and target, means for changing the potentials of said ray-control electrodes with respect to said cathode and target in response to said variable voltages comprising an amplifier with a cathode, control grid, screen grid, and anode, a voltage source connected at one end to the amplifier cathode and connected at the other end to said target and through resistors to said screen grid and anode, the two ray-control electrodes being connected to the resistors at points of different potentials.

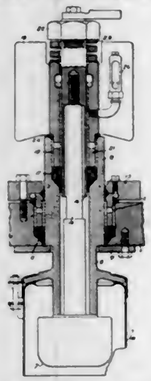
2,167,843
ACCELERATOR-CONTROLLING DEVICE
Alfred E. Johnson, Woodstock, Ill.
Application May 4, 1938, Serial No. 206,070
14 Claims. (Cl. 74—513)

1. An accelerator attachment comprising a supporting housing, latch and actuating rods slidably supported by said housing, means for connecting said latch rod to an accelerator, teeth on said latch rod, means for manually operating said actuating rod, a latch plate journalled in said housing and having notches of varying depths, and a spring influenced latch dog engageable with the said latch plate in a manner whereby certain of said notches permit the engagement of the said dog with the teeth of the said latch rod



and other of the said notches prevent engagement therebetween.

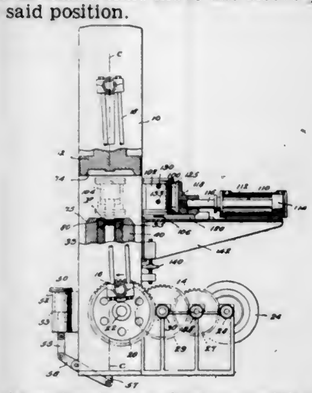
2,167,844
VAPOR ELECTRIC DEVICE
Emil M. Kaegi, deceased, late of Wauwatosa, Wis., by Anna E. Kaegi, special administratrix, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application April 21, 1937, Serial No. 138,190
1 Claim. (Cl. 250—27.5)



In an electric valve, the combination with an insulator defining an aperture, of an electrode penetrating through said aperture in spaced relation with said insulator at an upper level and in sealed relation therewith at a lower level, a heat conductive member encircling a portion of said electrode in spaced relation therewith and in sealed relation with said insulator, said electrode, insulator and member forming a chamber, and a single body of fluid contained within said chamber to seal said electrode against said insulator and to conduct heat between said electrode and said member.

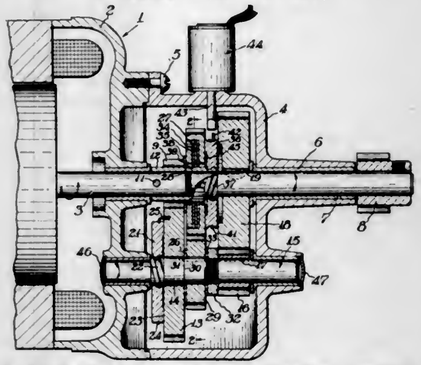
2,167,845
EXTRUSION PROCESS AND APPARATUS
William Klocke, Woodhaven, N. Y.
Application April 14, 1937, Serial No. 136,764
18 Claims. (Cl. 207—2)

1. An extrusion apparatus comprising a die, said die comprising a forming-part having an extrusion orifice therein and a sleeve-part for surrounding a billet, and movable with relation to said forming-part of the die to a position in which the fin or flash remaining on the face of said forming-part at the end of an extrusion operation is exposed, a slide and means for driving said slide to apply pressure to a billet within said die and at the same time move the sleeve-part of the die to said position.



16. An extrusion method comprising confining a billet in a die having a forming-part with an extrusion orifice therein, and a sleeve-part, telescoping the sleeve-part on the forming-part of the die at the rate at which the height of the billet is reduced, maintaining the sleeve-part in telescoped position following the extrusion action, lifting the slide through which the extrusion force is applied following the extrusion action, and severing against the die the fin or flash left at the end of the extrusion action.

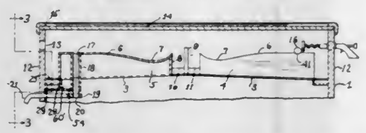
2,167,846
VARIABLE SPEED GEARING
Thomas B. Martin, Horseheads, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 15, 1937, Serial No. 120,700
8 Claims. (Cl. 74—368)



1. In variable speed transmission gearing, a low speed gear train including a self-tightening friction clutch having driving and driven members, means actuated by the driving member for initiating the closing action of said clutch and causing said clutch members to separate when the driven member overruns the driving member

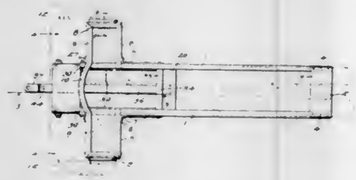
thereof, a high speed gear train including a normally disengaged friction clutch having self-tightening servo action, and manually controlled means for controlling the frictional engagement of the high speed clutch.

2,167,847
GAME
Hyman Olken, Cambridge, Mass.
Application May 22, 1937, Serial No. 144,115
9 Claims. (Cl. 273—85)



1. A game of the type described comprising a playing field, means providing a barrier across said playing field, means providing a groove running along the end of said playing field adapted to receive a ball with which the game is played, means operated externally of said playing field to hit said ball over said barrier, and means surrounding said playing field to return the ball to a receiving position and means to return said ball to said groove across said field said hitting means also serving to put the ball in play from said groove.

2,167,848
TRACTOR FRAME
Frans A. Ostenberg, Salina, Kans.
Application January 21, 1939, Serial No. 252,186
4 Claims. (Cl. 280—106)



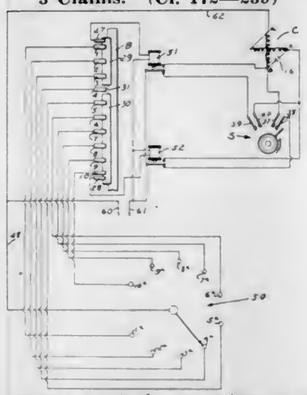
1. A tractor frame comprising side members, outwardly and laterally directed members carried by the rear extremities of the side members, rearwardly disposed end members carried by the outer extremities of the lateral members, and a cross member secured to the rear extremities of the end members, the assembly of said members providing a T-shaped frame, and means coacting with the end members for supporting a rear axle driving assembly.

2,167,849
EXPLOSIVE POWDER AND MANUFACTURE THEREOF
Henry George Pert, Kansas City, Kans., assignor of one-half to Archie B. Pickell, Kansas City, Mo.
No Drawing. Application November 29, 1937, Serial No. 177,057
4 Claims. (Cl. 52—16)

1. An explosive powder comprising ingredients in substantially the following proportions, sucrose twenty four pounds, potassium nitrate thirty three pounds, finely powdered coal ten pounds, and potassium chlorate thirty three pounds.

2. The method of making explosive powder which consists in dissolving sucrose and potassium nitrate in hot water, mixing therewith finely divided coal, adding potassium chlorate to the resultant solution and mixing until the mass begins to harden, passing said mass through a graining screen and then drying the grains.

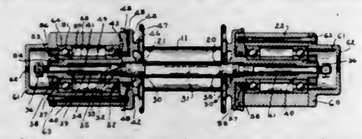
2,167,850
REMOTE CONTROL APPARATUS
Willis E. Phillips, Chicago, Ill., assignor to Bendix Radio Corporation, Chicago, Ill., a corporation of Delaware
Application November 26, 1937, Serial No. 176,521
3 Claims. (Cl. 172—239)



1. In remote control apparatus, a controlled member movable to any of a plurality of predetermined positions, a reversible electric motor drivingly connected to said controlled member, spaced conductor bars mounted on said controlled member, a group of contacts engaging one of said conductor bars, a second group of contacts engaging the other of said conductor bars, a selector switch having switch points connected to said groups of contacts, an energizing circuit controlled by any selected one of said first group of contacts for producing clockwise rotation of said motor, a second energizing circuit controlled by any selected one of said second group of contacts for producing counter-clockwise rotation of said motor, a local reversing circuit associated with each of said energizing circuits, means for opening the selected energizing circuit and closing the associated reversing circuit upon arrival of said controlled member at the selected predetermined position, and means for opening said reversing circuit before said motor begins rotation in the reverse direction.

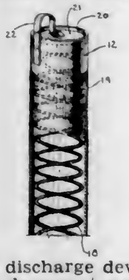
2,167,851
ADJUSTABLE SPOOL MOUNTING FOR WIRE SPOOLER MECHANISM
William D. Pierson and Raymond E. Walsh, Waterbury, Conn., assignors to The Waterbury Farrel Foundry & Machine Company, Waterbury, Conn., a corporation of Connecticut
Application May 25, 1936, Serial No. 81,656
6 Claims. (Cl. 242—25)

5. In a spooling machine wherein a running belt is arranged to drivingly engage the material being wound on the periphery of a spool having end flanges, means to counteract the pressure of the belt on the spool and to maintain the axis of the spool substantially parallel to the face of the belt, including a pair of opposed spool flange-engaging plates, a support for each plate, said plates being freely rotatable relatively to their supports, one of said supports being axially movable relatively to the other to clamp a spool between the plates by their engagement with said end flanges, a conical member carried by each of said plates and slidable axially relatively thereto to enter and be retained



in the bore of said spool, stop means to prevent the entire removal of said conical members from the bore of the spool when the latter is clamped between said plates, and spring means acting on said conical members to constantly urge each of said conical members into the bore of said spool to counteract the tendency of the conical members moving axially out of the bore under the influence of the transverse pressure of the running belt on the spool.

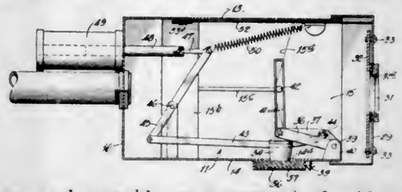
2,167,852
ELECTRON DISCHARGE DEVICE
George M. Rose, Jr., Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application October 22, 1935, Serial No. 46,056
8 Claims. (Cl. 250—27.5)



7. An electron discharge device having an envelope, an electrode mount assembly in said envelope comprising a plurality of electrodes and including a tubular cathode, an insulated heater within said cathode, an insulating spacer for spacing the ends of the electrodes in said electrode assembly, the end of said tubular cathode extending beyond the insulating spacer and having a pocket for receiving a getter material and means for retaining the getter material in the pocket in said cathode.

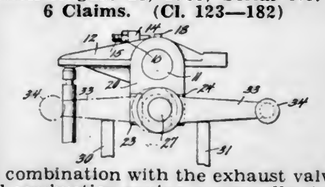
2,167,853
EGG CANDLER AND STAMPER
John Roberts, Clinton, Iowa, assignor to The Collis Company, Clinton, Iowa, a corporation of Iowa
Application October 7, 1936, Serial No. 104,424
6 Claims. (Cl. 88—14.2)

1. An egg candling and stamping apparatus comprising a housing containing a light source, a relatively movable member connected to said housing at one side thereof and having an egg receiving and candling opening facing the light source, a stamping apparatus including a stamp, a combined sliding and pivotal means mounting said stamp on a wall of said housing so that the stamp may swing through an arc of about 90° from a normally inoperative position within said housing to a position facing the opening in said member, and a lever system connected to said member and including a link pivoted to a wall of said housing adjacent said member and to said



stamp and operable on movement of said member to swing said stamp to said position facing the opening in said member and then advance the stamp slidably on said mounting means toward said candling opening to stamp an egg therein.

2,167,854
VALVE DEPRESSING MECHANISM
Richard H. Sheppard, Hanover, Pa.
Application August 15, 1938, Serial No. 225,015
6 Claims. (Cl. 123—182)

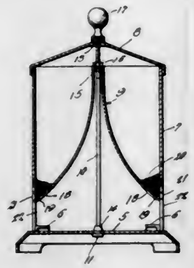


1. In combination with the exhaust valve of an internal combustion engine, a normally stationary shaft adjacent said valve, a rocker arm mounted to rock freely on said shaft thereby normally to operate said valve, a stop on the shaft and a stop engaging member on the rocker arm, said stop and member being spaced during normal operation of the valve but being positioned for engagement upon rotation of the shaft from its stationary position, means to rotate the shaft through a chosen angle, to cause engagement of the stop and member, and then to move the rocker arm from an inoperative position to open the valve, said means comprising an irreversible mechanism including an eccentric cam and a crank for turning the cam through a predetermined arc necessary to move the rocker arm shaft as recited.

2,167,855
SANITARY TOOTHPICK DISPENSER
Edwin E. Simons, Allentown, Pa., assignor of one-half to Fred S. Sittler, Allentown, Pa.
Application October 20, 1938, Serial No. 236,095
1 Claim. (Cl. 312—73)

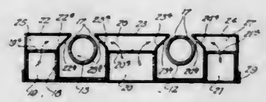
A dispenser of the character described comprising a bottom member, a casing member disposed vertically on said bottom member, a cover for said casing member, a rod extending upwardly through said bottom member and said cover, a knob threaded on the rod into engagement with said cover member for securing said cover member, casing, and bottom member assembled, an inverted V-shaped partition arranged in said casing and having the sides thereof curving away from one another with the lower edges of said sides substantially in contact with opposite walls of said casing, said partition member having the web thereof provided with an aperture for accommodating said rod, inwardly extending lugs on opposite sides of the casing member at the top thereof on which the ends of the

web of said partition member seats, and the walls of said casing contacted by the lower ends of the partition member being provided with horizontal



slots arranged adjacent to the lower edges of the sides of said partition member for the discharge of toothpicks or the like supported by the sides of the partition member within said casing.

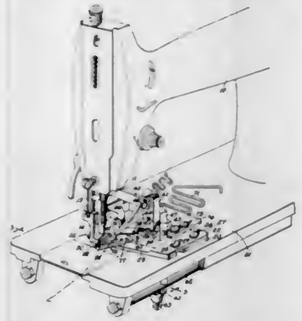
2,167,856
SECONDARY AIR INTAKE FOR GAS BURNERS
William Schonwald, Chicago, Ill., assignor to Middleby-Marshall Oven Co., Chicago, Ill., a corporation of Illinois
Application April 1, 1938, Serial No. 199,456
3 Claims. (Cl. 158—104)



3. A secondary air supply structure for an elongated gas burner comprising a base disposed beneath the burner and provided with upwardly extending side flanges, an air intake member seated on said base between said flanges provided with a pair of inverted channel portions one disposed at each side of said burner and having air ports in its upper wall and air intake openings at one end thereof, and air distributing means comprising inverted channel members embracing the side walls of said channel portions of said air intake member and provided with upper walls spaced above the upper ported walls of said channel portions to provide longitudinal air ducts therebetween and each having ports in a side wall thereof adjacent said burner for supplying air to the latter.

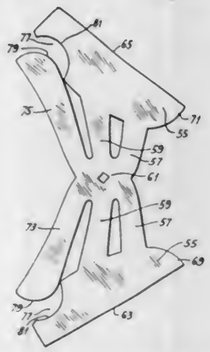
2,167,857
DEVICE FOR MAKING TRIMMINGS
Charles Seaman, Jamaica Estates, N. Y.
Application August 22, 1936, Serial No. 97,379
8 Claims. (Cl. 112—134)

2. In a sewing machine, a reciprocating needle, a feed dog, a presser foot to hold material in feeding engagement therewith, means to deliver upper and lower layers of base material to said presser foot, means to deliver a shirring material to said presser foot between said layers of base material, means to fold a beading material and means to deliver the same to said presser foot between said shirring material and one of said layers of base material with the folded edge in position to be exposed in the finished product, and means engaging said shirring material in advance of said presser foot for forming folds or pleats therein, said presser foot being adapted to cooperate with said feed dog to feed all of said



materials to the path of the needle for stitching by a single row of stitches.

2,167,858
SHOE AND METHOD OF MAKING SAME
Samuel Wexler, Amesbury, Mass.
Application September 16, 1936, Serial No. 100,979
2 Claims. (Cl. 12—142)



2. The method of fabricating shoes which comprises preparing a blank having a pair of substantially similar outer sections with substantially complementary shaped outer peripheries and a plurality of strap-like upper forming members joining together said outer members and a plurality of strap-like members extending from the central portion of the first named strap-like formation and having the ends thereof free, folding the blank into a substantially looped shaped configuration to bring the complementary shaped outer peripheries of the two outer sections into substantial abutting engagement, securing the outer sections in the substantial abutting relationship so that the outer sections form an inner sole section and the joining members form a shoe upper portion, securing the free end of each of the free-ended strap members to substantially an extreme end portion of the adjacent one of said outer sections of the formed inner sole section, fastening an outer sole section to the outer surface of the formed inner sole to provide for shaping the shoe upper and for providing a substantially flat wearing surface for the formed inner sole and fastening the assembly to a heel section.

2,167,859
PROCESS FOR THE MANUFACTURE OF IRON, STEEL, AND FERROUS ALLOYS FROM PIG IRON
George William Willis, Brighton, England
No Drawing. Application October 13, 1937, Serial No. 168,845. In Great Britain April 15, 1936
4 Claims. (Cl. 75—54)

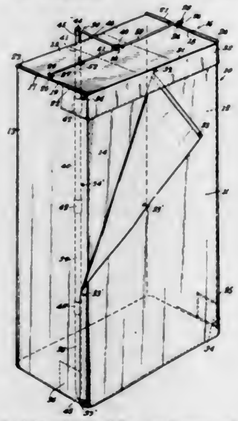
1. A process for the manufacture of iron, steel and ferrous alloys, which process comprises the steps of treating a molten pig iron at a temperature of 1600–2000° C. firstly with sodium sulphate and then with limestone and finally casting the treated metal.

2,167,860
SELF-ROLLING UMBRELLA AND PROCESS OF PRODUCING THE SAME
Arthur Wright, Forest Hills, Long Island, N. Y.
Application November 26, 1938, Serial No. 242,484
18 Claims. (Cl. 135—22)



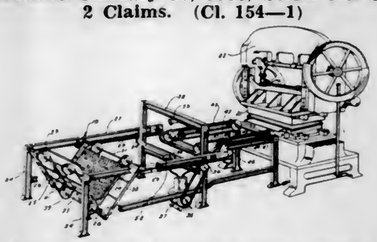
17. An umbrella, having a cover and means to elevate, lower and roll up the same, comprising devices adapted to roll up the cover on axes located longitudinally of the umbrella.

2,167,861
FOLDABLE CABINET
Emy Zimmern, née Baruch, New York, N. Y.
Application April 4, 1939, Serial No. 265,870
4 Claims. (Cl. 135—5)



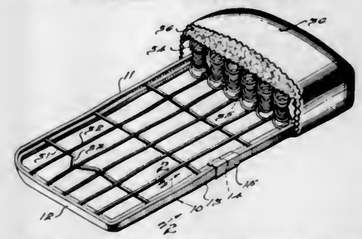
1. A portable foldable cabinet adapted to be suspended from a support comprising a fabric body having top, side and rear walls and an open front wall, a removable fabric covering for said front wall, and reinforcing members extending along the top edges of said side walls, said members being adapted for engagement with said support when said cabinet is in unfolded condition, said reinforcing members forming longitudinal gripping means for carrying said cabinet when in folded condition.

2,167,862
APPARATUS FOR PREPARING PADDED TRIM PANELS
Clarence W. Avery and Alfred H. Haberstump, Detroit, Mich., assignors to The Murray Corp. of America, a corporation of Delaware
Application January 17, 1936, Serial No. 59,593
2 Claims. (Cl. 154—1)



1. Apparatus for simultaneously forming right and left hand trim panels which includes a blanking press, means for feeding a pair of trim panels serially toward said blanking press, conveyors serving automatically to arrange said trim panels in superimposed face-to-face relation and means for feeding said panels to said blanking press while thus arranged.

2,167,863
SEAT FRAME
Clarence W. Avery, Detroit, Mich., assignor to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application July 23, 1937, Serial No. 155,286
5 Claims. (Cl. 155—180)

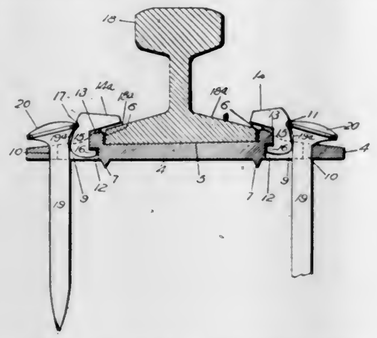


4. A seat structure embodying a border element of downwardly projecting channel section, the web of said channel element containing a longitudinally disposed bead, the web portion between said bead and outer flange being offset outwardly from said element forming a shoulder, tacking material disposed in said channel, elements resting on said bead within the confines of said channels and welded thereto, and springs supported by said elements.

2,167,864
RAIL FASTENING
William H. Bailey, Pueblo, Colo., assignor to The Colorado Fuel and Iron Corporation, a corporation of Colorado
Application May 24, 1937, Serial No. 144,330
5 Claims. (Cl. 238—351)

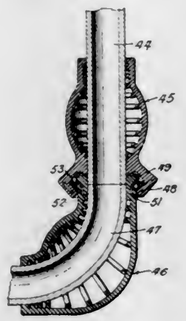
1. The combination with a tie-plate having a

rail-seating surface and an undercut slot adjacent the seat, of a rail on the seat, an upwardly extending projection between the seat and slot having a bearing surface at the top thereof, a substantially C-shaped clip positioned in the slot and seated on said bearing surface with a portion of the top thereof overhanging the rail base in spaced relation thereto and a portion of the bottom of the clip extending into the under-



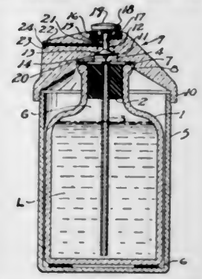
cut portion of the slot in vertically spaced relation to the plate, the clip having an intermediate portion formed with a cam face extending obliquely downwardly from the top of the clip and outwardly from the rail base, and a spike extending through the slot and having its head in engagement with said cam face intermediate the ends thereof to yieldingly secure the clip against upward movement in the slot.

2,167,865
PIPE COUPLING
Valentine Beecher, Greenville, N. Y.
Application March 4, 1938, Serial No. 193,997
6 Claims. (Cl. 285—90)



1. A union pipe-coupling comprising a pair of tubular shells of rubber or the like, each shell having an inturned annular flange at one end thereof and a cylindrical body portion at its other end to grip a pipe inserted therein, one of said shells having a flange extending at an acute angle inwardly to the axis of said cylindrical body portion, the other of said shells having a flange extending outwardly from said cylindrical body portion, said axially inclined flange being adapted to snap over the last named flange to connect shells together.

2,167,866
DEVICE FOR ATOMIZING LIQUID INSECTICIDES OR FUNGICIDES
Hubert D. Bennett, Toledo, Ohio, assignor to Plaskon Company, Incorporated, Toledo, Ohio, a corporation of Delaware
Application January 6, 1937, Serial No. 119,306
1 Claim. (Cl. 299—95)



In a device of the class described, in combination, a sealed inner container charged with an insecticide liquid and a pressure creating gas, said sealed inner container having a puncturable seal and a conduit leading from said puncturable seal to said insecticide liquid, a casing comprising a hollow body of molded plastic material to receive said sealed inner container and a cover of molded plastic material, there being a joint between said cover and said sealed inner container when the device is assembled, means for rendering the joint between said cover and said container fluid tight, said body and cover having cooperating threads for holding said body and cover in assembled relation and exerting clamping pressure upon said container, said cover having a passage formed therein which passage terminates at one end in an atomizing nozzle, a spur mounted within said passage and adapted to puncture said puncturable seal, a valve within and normally closing said passage, and means mounted in said cover and connected to said valve and manually operable from the exterior of said cover to open said passage and cause said liquid to be atomized from said nozzle.

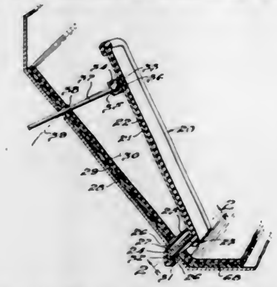
2,167,867
LUBRICANT
Anthony Francis Benning, Penns Grove, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 7, 1936, Serial No. 78,409
13 Claims. (Cl. 87—9)

1. A method of lubricating bearing surfaces which comprises maintaining between the bearing surfaces, one of which is an alloy formed chiefly of cadmium and silver, a film of lubricating oil which initially produces an effective lubricating action but which would normally tend to corrode the aforesaid alloy, and maintaining the effectiveness of the lubricating oil by incorporating therein, in an amount sufficient to inhibit said corrosion, an organic ester of the phosphoric acid.

2,167,868
MOTOR VEHICLE
Frank C. Best, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application May 7, 1936, Serial No. 78,334
17 Claims. (Cl. 74—513)

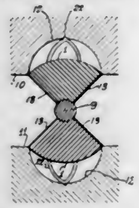
1. A pedal for a motor vehicle having a toe

board and an opening therein, including a treadle, means integral therewith for pivotally supporting said treadle directly on said toe board, means for engaging in said opening in a manner



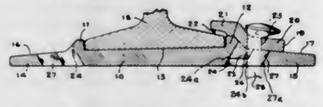
preventing dislodgment of said first means relative to the toe board, and means for operatively engaging said treadle to a control arm of the vehicle.

2,167,869
METHOD OF MAKING A GOLF BALL
Boris Bogoslowsky, New York, N. Y.
Application September 15, 1936, Serial No. 100,869
13 Claims. (Cl. 154—16)



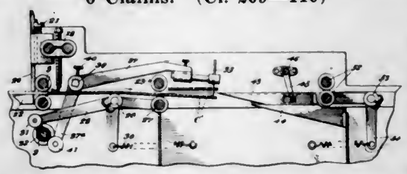
1. The method of making a ball, which comprises the steps of applying external pressure to pre-formed solid elastic sectors of substantially conical shape and of predetermined radius to force said sectors collectively into a ball body of substantially spherical form and of lesser radius than said pre-formed sectors, and securing juxtaposed faces of the respective sectors to one another while the external pressure is maintained.

2,167,870
RAIL FASTENING
William S. Boyce, Chicago, Ill.
Application July 24, 1935, Serial No. 32,825
15 Claims. (Cl. 238—338)



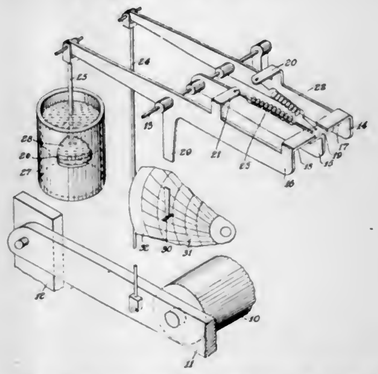
1. In a rail fastening, the combination of a tie plate and a clip, the clip having an opening for the passage of a spike or the like through the clip and provided with a depending lug inclined to the vertical, said opening being so located and at such an angle to said lug as to cause said spike to engage the outer face of the lug and to cooperate therewith to form a downwardly expanding structure depending from the clip bottom, and the plate having a single opening adapted to receive said downwardly expanding clip structure, the lug being adapted to engage the tie plate edge at one side of the opening therein and the spike the opposite edge, thereby to interlock the clip and plate against vertical separation, and said clip having a lip on its inner end adapted to overlie the base flange of a rail seated on the tie plate to retain the rail in operative relation to the tie plate.

2,167,871
DELINQUENCY CARD SELECTING MACHINE
Felix T. Boylan, New York, N. Y.
Application October 25, 1937, Serial No. 170,898
6 Claims. (Cl. 209—110)



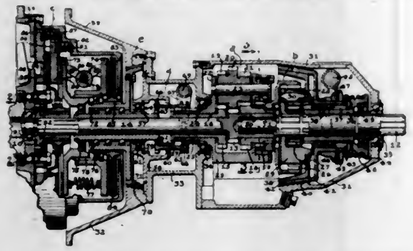
1. A machine of the kind described comprising means for feeding cards successively to a selector station, a reciprocating combined selector and deflector member located at said station and constructed and arranged to engage an advance edge of unpunched cards and deflect them out of the direct line of card feed and cooperative reciprocating means adapted to engage the deflected edge of such cards and direct them to a receiver separate from the receiver for the punched cards.

2,167,872
RESILIENT LINKAGE FOR MEASURING INSTRUMENTS
Carlton W. Bristol, Naugatuck, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application October 1, 1937, Serial No. 166,754
3 Claims. (Cl. 73—151)



1. In an instrument for measuring the deflections of a forcibly moved member: a scale, an index movable thereover, a damping device directly associated with said index, and motion-transmitting means comprising abutting means providing operative connection between said index and said member, together with yielding means normally maintaining said abutting means in operative engagement and adapted to yield temporarily when movements of said member in either direction are such as when acting through said abutting means would tend to move said index more swiftly than would be permitted by said damping device.

2,167,873
AUTOMATIC CHANGE SPEED TRANSMISSION
Everett R. Burtnett, Los Angeles, Calif., assignor of one-third to Edith Glynn Burtnett, Los Angeles, Calif.
Application September 27, 1937, Serial No. 165,927
53 Claims. (Cl. 74—260)

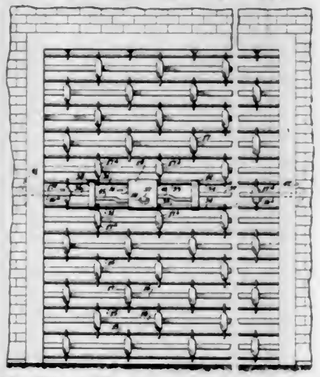


1. In a motor vehicle drive, the combination of a driving member driven by the vehicle engine, a driven member for positive operative connection to the driving wheels of the vehicle whereby said driven member is adapted to propel said vehicle and whereby said driven member may be rotated by either forward or backward movement of said driving wheels, a multi-speed transmitting mechanism between said driving and driven members including a transmitting train having an overrunning clutch in series therein completing said train in connection to be driven in backwards rotation from said driven member incident to backward movement of said driving wheels, means including another clutch mechanism for connecting said train in two-way drive with said driving member, means for actuating said other clutch mechanism into and out of engagement, brake mechanism including frictionally-engaging elements including a stationary element and a mating normally engaging element forming means normally operative at least to prevent said backwards rotation of said train, control means to the frictionally-engaging brake elements, said control means forming an operative connection with said other clutch mechanism whereby actuation of the latter towards engagement, to complete the driving connection of said train with said driving member, will cause disengagement of said brake elements, all whereby said train may normally operate as a no-back device, through the medium of said driven member being in connection with said vehicle driving wheels, to prevent backward movement of said wheels while driving connections are incomplete between said driving and driven members.

2,167,874
CEMENT AND METHOD OF MAKING THE SAME
David E. Cordier, Toledo, Ohio, and Emil H. Balz, Pittsburgh, Pa., assignors to Plaskon Company, Incorporated, a corporation of Delaware
No Drawing. Application February 3, 1936, Serial No. 62,044
6 Claims. (Cl. 134—26)

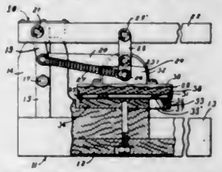
1. A process for making a cement which includes the steps of reacting 1 mol phenol with approximately 3 mols formaldehyde in the presence of about ½ mol alkali carbonate at a temperature between 30° C. and 60° C., neutralizing the solution to precipitate formaldehyde-phenol reaction product and to form a water-soluble salt, washing the precipitate to remove the salt formed by neutralization, mixing the precipitate with ethylene glycol, evaporating water from the mixture until boiling practically stops with a vacuum of 29 inches of mercury and the temperature of the material at 50° C., and acidifying the material by the addition of one part of a 60% solution of 85% syrupy orthophosphoric acid in ethylene glycol.

2,167,875
FLEXIBLE GRILLE
Milton L. Cornell, August H. Graff, and Rowland K. Bennett, New York, N. Y., assignors to Cornell Iron Works, Inc., Long Island City, N. Y., a corporation of New York
Application July 14, 1936, Serial No. 90,480
5 Claims. (Cl. 189—56)



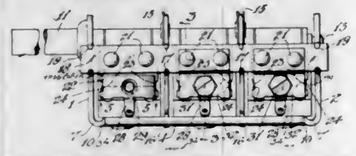
2. A flexible grille comprising a series of laterally extending main grille members, and alternate spacer link supporting members; and a plurality of elongated spacer links of flat bar stock rigidly disposed transversely and secured flatwise at their middle portion to said alternate supporting members and laterally spaced therealong, having their opposite ends twisted by a turn through ninety degrees about the axis of symmetry into a plane at right angles to the middle portion and provided with perforations in said ends, the oppositely extending links from two adjacent link supporting members having the intervening grille member threaded through their perforated ends to form hinges and provide an articulated grille structure.

2,167,876
PATTY-FORMING MACHINE
Claude W. Coseboom, Altadena, Calif., assignor of one-half to James W. Beasley, East San Gabriel, Calif.
Application March 14, 1938, Serial No. 195,683
7 Claims. (Cl. 107—15)



6. In a patty forming apparatus, a mold on said base, said mold member comprising a disk, a peripheral member on said disk and extending therabove, a second mold member, means to mount said mold members for relative movement towards and from each other, said second mold member including a disk having a peripheral member thereon telescoping the peripheral member on the first disk, one of said disks having apertures therein, a plate removably engaging the top of said one disk, said plate having apertures therein and having serrated edges adjacent said apertures, said serrated edges being disposed adjacent to the disk apertures.

2,167,877
ELECTRICAL CONDENSER CONSTRUCTION
Russell E. Cramer, Audubon, N. J., assignor to Radio Condenser Company, Camden, N. J.
Application November 26, 1935, Serial No. 51,591
6 Claims. (Cl. 175—41.5)

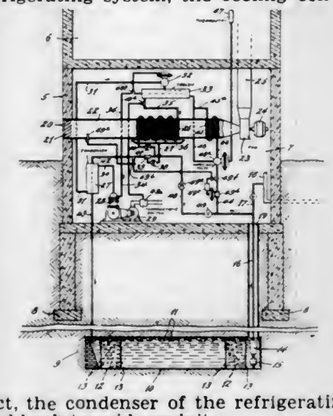


1. For a variable electrical condenser having a rotor with shaft, and stator plates; a non-warping frame comprising a stamping having an integral upturned plate at each end providing bearing supports for the rotor shaft and a plurality of spaced bottom cross members having their edges formed over to provide a frame member having a cross section similar to a channel, the material at the opposite ends of said channel-shaped member, closely adjacent the end plates, being flared away from the member and these flared portions turned inwardly toward their respective end plates, and a frame bar on each side of the condenser extending between the end plates and anchored thereto, and acting at least in part as a support for the stator plates.

3. In an electrical condenser having a frame, rotor and stator plates, the latter of which are fastened to tie bars for attachment to insulators carried by metallic bar frame members on opposite sides thereof and spaced from the bottom of the frame; said attachment comprising a terminal plate lying across the outer face of each insulator below said bar frame members said plate having lugs clinched around parts of the insulator and also having fingers extending inwardly toward the stator tiebars for attachment thereto, and a further part to which a conductor may be attached, said insulator and terminal plate having holes concentrically arranged but the hole in the terminal plate being materially larger in diameter than the hole in the insulator, the latter hole being tapped, a trimmer plate fastened directly to said bar member and extending downwardly over said terminal plate but prevented from contacting therewith by an insulator, and an adjusting screw passing through the trimmer plate and into the tapped hole in the stator support insulator.

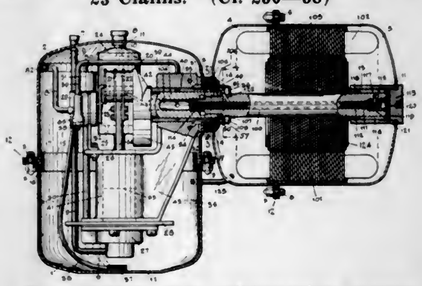
2,167,878
AIR CONDITIONING SYSTEM
Robert Brace Crawford, Washington, D. C.
Application February 19, 1936, Serial No. 64,784
6 Claims. (Cl. 257—3)

1. An air conditioning system comprising in combination a subterranean conduit positioned below the water table and having openings providing direct contact of the fluid therein with ground water; a refrigerating system including a cooler and a condenser; a duct for conveying air to a point of distribution, a cooling coil in said air duct; and means for circulating water successively through said conduit, the cooler of the refrigerating system, the cooling coil in the



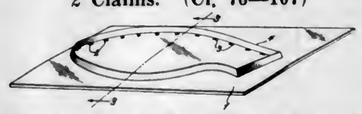
air duct, the condenser of the refrigerating system and back to said conduit.

2,167,879
ELECTRIC REFRIGERATING COMPRESSOR
Philip W. Des Roches, Detroit, Mich.
Application February 26, 1936, Serial No. 65,892
23 Claims. (Cl. 230—58)



1. In a compression refrigerating system, a motor and a compressor, shells for enclosing the motor and the compressor, a shaft interconnecting the motor and the compressor, the walls of the shells each having openings approximating the size of the shaft through which the shaft extends, and means surrounding the shaft for connecting the interior of the shells gas-tightly through the said openings and forming a clearance space open to the atmosphere between the outside of the shells excepting at the point of connection between the shells.

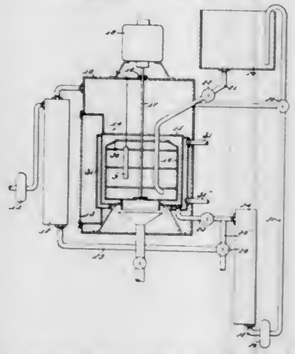
2,167,880
METHOD OF MAKING DIES
Carl George Deubel, Harrisburg, Pa., assignor to Progressive Service Company, Harrisburg, Pa., a corporation of Missouri
Application May 28, 1936, Serial No. 82,270
2 Claims. (Cl. 76—107)



1. In the art of making dies the process comprising, providing a flat base plate having an area greater than that of the die to be produced, upsetting a series of projections on one side of the base plate in a line corresponding substantially to the shape of the cutting edge desired, forming

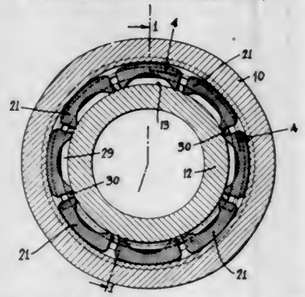
series of projections on the opposite side of said plate, the projections of the latter series being closely adjacent the corresponding projections of the former series, placing a pair of elongated cutting elements one on each side of said plate in superposed relation to the line of projections thereon, spotwelding said pair of cutting elements to the base plate, removing the excess base plate stock outwardly of the cutting elements, and removing a substantial part of the base plate stock inwardly of the cutting elements to form open space thereat with a continuous part extending along the cutting element.

2,167,881
METHOD OF TREATING LIQUIDS AND SEMILIQUIDS
Edward C. Eberts and Kenneth M. Eberts, Indianapolis, Ind.
Application February 11, 1937, Serial No. 125,176
6 Claims. (Cl. 99—205)



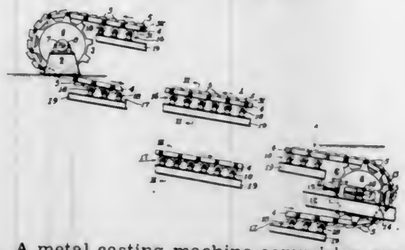
1. The method of treating flowable material containing a volatile which comprises the step of operating in vacuum a centrifuge capable of retaining a predetermined volume of material, the step of flowing said material into said centrifuge to its retention capacity, the step of overflowing said material through said centrifuge, and the step of returning the effluent from said centrifuge into the centrifuge until desired concentration has been attained.

2,167,882
BLOCK BEARING
Gustave Fast, Annapolis, Md., assignor to Gustave Fast Engineering Corporation, Annapolis, Md., a corporation of Maryland
Application September 16, 1935, Serial No. 40,699
18 Claims. (Cl. 308—73)



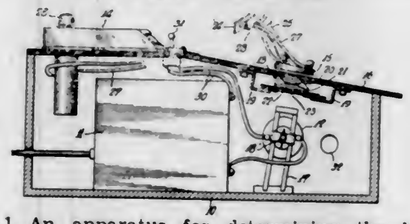
1. In a bearing a member having a continuous bearing surface, said surface being a surface of revolution, and a series of resilient blocks cooperating with said member, each of said blocks having a surface of revolution in juxtaposition to a portion of the surface of said member, the difference in the radius of curvature of adjacent portions of said blocks and member being greater than required for clearance purposes and being sufficient to provide wedge shaped film producing pockets.

2,167,883
PIG CASTING MACHINE
Jay W. Ferree, Pittsburgh, Pa.
Application April 26, 1938, Serial No. 204,321
10 Claims. (Cl. 22—62)



1. A metal casting machine comprising spaced endless chains made up of links, molten metal receiving moulds carried by opposite links of said chains, sprocket wheels at the head and tail of each of said chains and a track for supporting the forward and return reaches of the chains, said tracks comprising stationarily mounted wheels disposed line-in-line, each link comprising a body having spaced horizontal flanges connected by a vertical web, said body having at one end a centrally disposed tongue and at the other end provided with spaced tongues between which the centrally disposed tongue of an adjacent link may be received, said tongues being apertured to receive a link pin arranged to mesh with the teeth of the sprocket wheels.

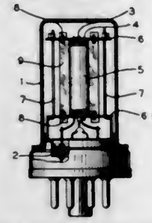
2,167,884
APPARATUS FOR DETERMINING THE PRINTING TIME FOR PHOTOGRAPHIC NEGATIVES
Ignatius L. Gartland, Scarsdale, N. Y., assignor to Color Laboratories, Inc., New York, N. Y., a corporation of Pennsylvania
Application July 7, 1937, Serial No. 152,332
2 Claims. (Cl. 88—14)



1. An apparatus for determining the light transmission of photographic negatives, which includes a casing having the top wall forming a negative support provided with an opening therethrough, a condenser within said casing and registering with said opening, a filament source of light also within said casing, and a plate having a small aperture therein positioned closely adjacent to said condenser, said condenser, light

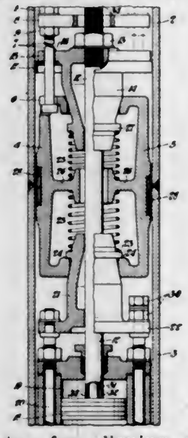
and plate being in fixed relative positions, whereby a small pencil of light of constant size and intensity is projected through the opening in said negative support, and a selenium cell outside of said casing above said negative support, and means connecting the cell and said casing and mounting the cell for movement toward and from the negative support, to permit positioning of any desired portion of the film directly over the pencil of light, and to permit positioning of said cell closely adjacent to the outer surface of the film.

2,167,885
ELECTRODE ASSEMBLY
Joseph R. Glans, Bloomfield, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application June 30, 1938, Serial No. 216,685
4 Claims. (Cl. 250—27.5)



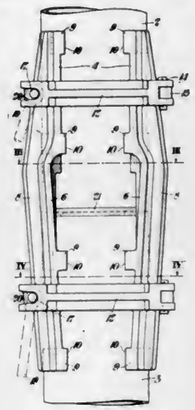
1. An electrode assembly comprising a cathode and anode held in concentric fixed spaced relation by an insulating spacer transverse to the axis of the anode, the anode comprising a tubular portion with a radially extending fin, an ear extension on said fin for engaging a slot in said spacer, and means for preventing transverse movement of said ear in said slot, comprising an embossing integral with the fins on one side of said ear in registry with a recess in the side of said slot.

2,167,886
APPARATUS FOR ALIGNING, WELDING, AND TESTING PIPE JOINTS
James B. Graham, Mount Lebanon, and Raoul G. Mayer, Wilkinsburg, Pa., assignors to National Tube Company, a corporation of New Jersey
Application July 15, 1937, Serial No. 153,864
4 Claims. (Cl. 113—102)



1. An apparatus for aligning abutting pipe sections comprising a cylinder, a piston rod, a piston carried by said piston rod and operable within said cylinder, plugs connected to said cylinder and piston rod respectively, segmental sleeves adapted to engage said plugs, and means adapted to move said plugs and expand said segmental sleeves into contact with the inner walls of abutting pipe sections whereby said pipe sections are aligned for joint welding.

2,167,887
PIPE ALIGNING CLAMP
James B. Graham, Mount Lebanon, and Raoul G. Mayer, Wilkinsburg, Pa., assignors to National Tube Company, a corporation of New Jersey
Application July 15, 1937, Serial No. 153,865
1 Claim. (Cl. 113—102)

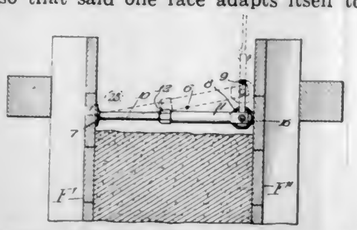


A clamp for aligning adjoining sections of pipe on a common longitudinal axis comprising cradles, said cradles each including spaced members extending longitudinally of the axis of the pipe sections and having reenforcing ribs formed on one side and inwardly extending spaced lugs on the other side thereof, said lugs of each cradle lying in the same vertical plane and being so arranged as to contact said pipe sections at quadrants around the periphery thereof at points adjacent the point of welding of the pipe sections and at points above and below said first mentioned points of contact, integrally former cross-members for the spaced members of each cradle, means pivotally connected to the cross-members of said cradles for adjustably positioning said cradles on said pipe sections and means on the other ends of said cross-members for clamping and releasing said cradles upon said pipe sections.

2,167,888
SPREADER FOR CONCRETE FORMS
Bror Hillberg, Chicago, Ill., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application March 11, 1937, Serial No. 130,259
2 Claims. (Cl. 248—354)

1. As a new article of manufacture, a spreader adapted to space apart and prevent collapse of a pair of laterally spaced forms and comprising an elongated spreader member adapted to extend horizontally between the forms when in its operative position and provided at one end thereof with means for temporary attachment to the adjacent

form and at its other end with a pair of laterally spaced ears and a stud between and carried by said ears, a wheel type shoe with a polygonal rim adapted to have one face of the rim abut against the other form and rotatably mounted on the stud so that said one face adapts itself to said



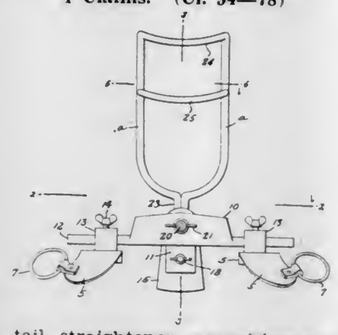
other form and also slides upwards in parallel relation with the latter during upward swing of said other end of the member in connection with removal of the spreader member, and a bail for a spreader member removing hook, having the ends thereof pivotally mounted on the stud and disposed in straddled relation with the shoe.

2,167,889

TAIL STRAIGHTENER

Ray Don Hulse, New Bloomfield, Mo.

Application September 21, 1937, Serial No. 164,966
Renewed February 14, 1939
4 Claims. (Cl. 54—78)



1. A tail straightener comprising a pair of foundation plates, a block, pintles extending from the block, bosses on the foundation plates having openings therein for receiving the pintles, screw means on the bosses for engagement with the pintles, a tail rest vertically disposed above the block, and ratchet means between the rest and the block operative to allow lateral adjustment of the rest.

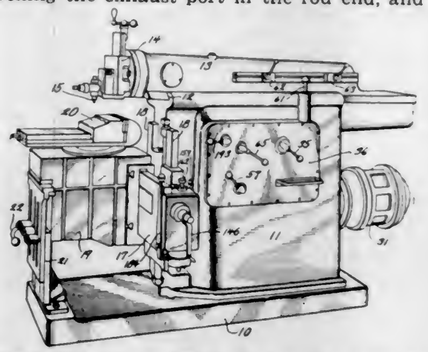
2,167,890

HYDRAULIC MACHINE TOOL

Paul S. Jackson, Rockford, Ill., assignor to Rockford Machine Tool Company, Rockford, Ill., a corporation of Illinois

Application August 27, 1935, Serial No. 38,056
40 Claims. (Cl. 90—33)

1. A hydraulically operated machine tool comprising a reciprocable carrier, a stationary cylinder, a piston in said cylinder having a rod projecting through one end thereof and into driving engagement with said carrier, said cylinder having an inlet and an exhaust port at each end thereof, a pump for supplying operating fluid, a conduit system connecting with said pump and the ports in said cylinder, and a valve in said conduit system controlling the connections of said system to the ports in said cylinder, said valve having a first position in effect opening the inlet and closing the exhaust port in the head end of said cylinder and closing the inlet and opening the exhaust port in the rod end, and a



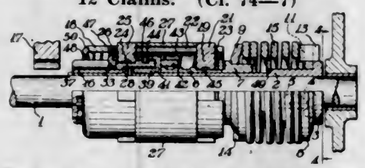
second position in effect closing the inlet and opening the exhaust port in the head end and opening the inlet and closing the exhaust port in the rod end to effect reciprocation of said carrier and unidirectional flow of fluid through the system.

2,167,891

ENGINE STARTER DRIVE

Clinton S. Janes, Elmira, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application November 13, 1936, Serial No. 110,749
12 Claims. (Cl. 74—7)



1. In a starter drive for internal combustion engines, a power shaft, a pinion mounted thereon for movement into and out of engagement with a member of an engine to be started, and means responsive to acceleration of the power shaft for moving the pinion into driving engagement with the engine member and thereafter transmitting rotation thereto, said means including means responsive to self-operation of the engine for causing the pinion to overrun the power shaft while remaining in engagement with the engine member, and said first-named means further including means responsive to deceleration of the power shaft for moving the pinion out of engagement with the engine member and returning it to idle position.

2,167,892

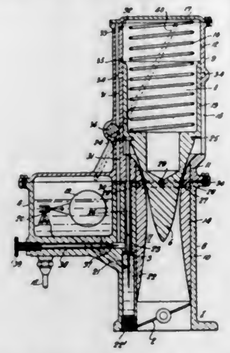
LIQUID FUEL FEEDING DEVICE FOR INTERNAL COMBUSTION ENGINES

Raymond Leslie Kent, Marston Green, near Birmingham, and Murray Duncan Scott, Bury Green, Cheshunt, England

Application November 3, 1936, Serial No. 109,038
In Great Britain November 8, 1935
3 Claims. (Cl. 261—50)

1. A fuel raising and carburetting device for use in internal combustion engines, comprising a fuel chamber, mixture passage including a

Venturi tube, a pressure responsive member, means placing said member and the fuel chamber in communication with the throat of the venturi, a fuel jet including a jet opening and a needle valve for controlling the effective area thereof, means connecting the jet opening on one side thereof to the venturi and on the other



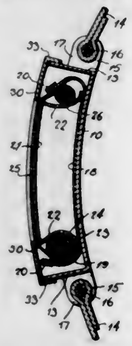
side to the fuel chamber, and a choke piece movable into and out of the Venturi throat to vary the choke opening, both the needle valve and choke piece being actuated by the pressure responsive member which is so restrained that it will cause a depression in the system sufficient to raise fuel to the fuel chamber before it increases the jet and choke openings.

2,167,893

WRIST STRAP NOTE PAD

Raymond E. Kinney, Topeka, Kans.

Application August 18, 1938, Serial No. 225,651
4 Claims. (Cl. 281—9)



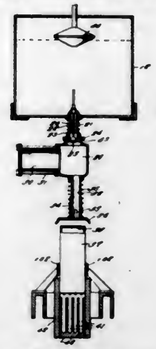
1. In a wrist strap note pad, a casing of arched formation to engage the wrist of the user, the casing having bottom, side and end walls, a removable cover having a top wall with a large central opening therein and side and end walls removably mounted on the casing, a pair of cooperating spring devices in the casing including interfitting top and bottom members defining resilient end pockets for spools of paper and a resilient top wall portion beneath the cover opening constituting a writing table and a paper spool resiliently retained in each pocket with the paper strip between the spools extending over the writing table, said writing table adapted to be manually depressed to relieve tension on the rolls whereby the latter may be removed from the casing.

2,167,894

RECEPTACLE FILLING MACHINE

Irwin I. Kotcher, Brooklyn, N. Y.

Application May 19, 1937, Serial No. 143,583
7 Claims. (Cl. 226—95)



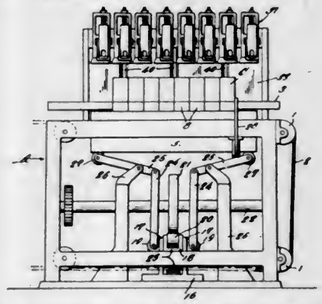
5. In a receptacle filling machine, a supporting frame, a reservoir at the top of the frame, means for adjusting the reservoir vertically, normally closed valve means depending from the reservoir, a vertically movable member having a plurality of chambers therein located under the reservoir and when moved upwardly against the valve means will open the valve means to permit liquid to flow from the reservoir into the chambers of said member, a drive shaft, cams carried thereby, roller carrying members connected with the chamber member and having the rollers engaging the cams, means for adjusting the length of the roller carrying members, a conveyor for supporting receptacles, an elevator, a cam on the shaft, means operated thereby for raising and lower the elevator, valve means carried by the chamber member and opened by the receptacles when the same are raised by the elevator to permit liquid from the chambers to flow into the receptacles.

2,167,895

CARTON CAPPING MACHINE

Irwin Kotcher, Brooklyn, N. Y.

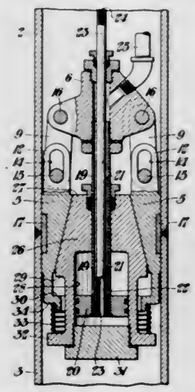
Original application May 19, 1937, Serial No. 143,583. Divided and this application October 8, 1938, Serial No. 234,064
5 Claims. (Cl. 226—92)



1. In a receptacle capping device of the class described, a supporting frame, a pair of spaced guiding members supported by the frame, an elevator movable between the guiding members, a plurality of jacks mounted on the elevator, each engaging a receptacle, means for operating the elevator, capping means at the top of the frame for applying caps to the receptacle when

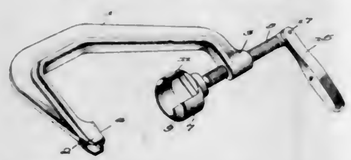
lifted by the elevator and jacks and inter-engaging means on said jacks and on said guiding members coacting to cause said jacks to separate when the jacks move upwardly and to move toward each other when the jacks move downwardly.

2,167,896
PLUG FOR LINING UP AND WELDING CASING AND LINE PIPE
James B. Graham, Mount Lebanon, and Raoul G. Mayer, Wilkinsburg, Pa., assignors to National Tube Company, a corporation of New Jersey
Application July 15, 1937, Serial No. 153,863
5 Claims. (Cl. 113—103)



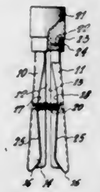
1. An apparatus for aligning abutting ends of pipe sections comprising in combination a supporting frame, a segmental sleeve having an even number of segments, links connecting said segments to said frame, means on some of said segments cooperating with means on said links to permit both axial and radial movement of said segments, a plug for expanding said segmental sleeve and means for moving said plug to expand or contract said sleeve, an annular shoulder on said plug, shoulders on the axially moving sleeve segments, said shoulders contacting each other for supporting said plug in collapsed position.

2,167,897
VALVE UNIT OR VALVE GUIDE PULLER
Harry W. Kulp, Lancaster, Pa., assignor to K-D Manufacturing Company, Lancaster, Pa., a corporation of Pennsylvania
Application September 4, 1936, Serial No. 99,475
7 Claims. (Cl. 29—86.3)



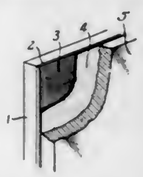
6. A valve unit puller comprising a rigid frame formed with a bifurcated lower end, a shell formed with a downwardly presented conically bevelled lower face in operation extending around and receiving the valve and contacting the valve seat, and means connected to said frame for producing movement of said shell towards said bifurcated lower end.

2,167,898
GRAPEFRUIT IMPLEMENT
Alban Lesponne, New York, N. Y.
Application June 15, 1938, Serial No. 213,844
1 Claim. (Cl. 30—24)



An implement of the class described comprising a cylindrical handle, a pair of oppositely-disposed arms arcuate in cross-section having their ends secured to opposite sides of one end of said handle, a band surrounding said ends and retaining said ends on said handle, the opposite ends of said arms having channel shaped blades thereon with the channels facing inwardly, said arms being flexible through a small arc about their attachment to said handle, and resilient means normally urging said blades and arms apart.

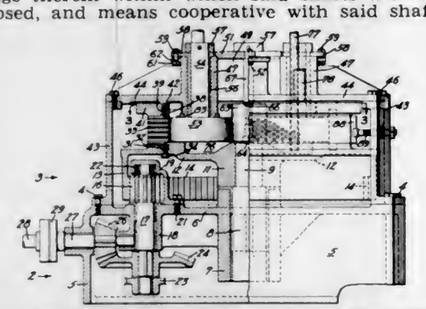
2,167,899
LIGHT POLARIZING DEVICE
Alvin M. Marks, Whitestone, N. Y.
Application December 11, 1937, Serial No. 179,296
4 Claims. (Cl. 88—65)



1. A light polarizing device, comprising, a supporting medium having a surface coated with iodocinchonidine sulphate, said coating comprising a substantially continuous crystalline layer directly crystallized on the surface from solution and forming effectively a single crystal of substantially uniform optical orientation whereby the iodocinchonidine sulphate is so arranged that for each unit surface area a maximum amount of ordinary incident light is transmitted, and a maximum amount of the transmitted light is polarized per unit of thickness for the iodocinchonidine sulphate.

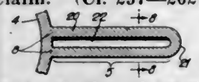
2,167,900
MILL
Edgar T. Meakin, San Francisco, Calif.
Application June 12, 1935, Serial No. 26,199
In Great Britain December 5, 1934
26 Claims. (Cl. 107—8)

25. In a device of the class described, a horizontally positioned perforated die ring, means for supporting said die ring, a plurality of rollers disposed within the area confined by said die ring and adapted to compress and force material through the perforations thereof upon relative movement between said die ring and said rollers, means for causing said relative movement, a shaft for each of said rollers, a member positioned adjacent an end of said rollers and having openings therein within which said shafts are disposed, and means cooperative with said shafts



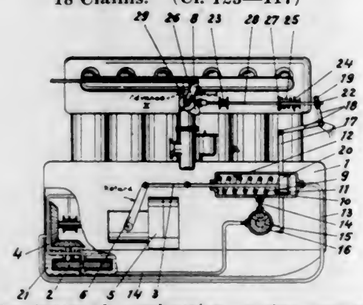
for radially adjusting the position of the rollers relative to the inner face of said die ring.

2,167,901
TUBULAR ELEMENT FOR BOILER WALLS
Thomas E. Murray, Jr., Brooklyn, N. Y.
Application February 29, 1936, Serial No. 66,413
1 Claim. (Cl. 257—262)



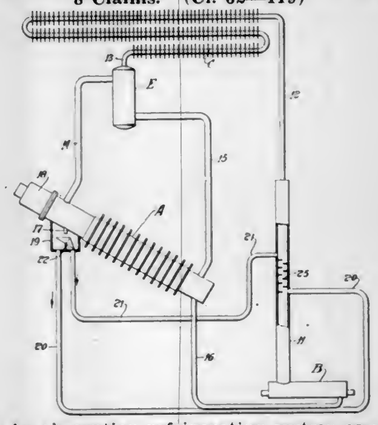
A tubular unit of the character described adapted to form a wall exposed on one side only to high temperatures, said unit comprising a tube for the heating and circulating of water or other fluid and having a series of separate projections on its exterior forming extended heating surfaces and being spaced so closely as to provide a substantially unbroken wall, said projections each comprising a combination of steel and a material of high conductivity, the steel being a hollow member closed at its outer end and at the sides, top and bottom and welded at its inner end to the water tube and the material of high conductivity being carried in said hollow member and being liquid at ordinary temperatures.

2,167,902
DEVICE FOR ADJUSTING THE IGNITION TIMING OF INTERNAL COMBUSTION ENGINES
Fritz Nallinger, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany
Application May 11, 1938, Serial No. 207,187
In Germany September 7, 1936
18 Claims. (Cl. 123—117)



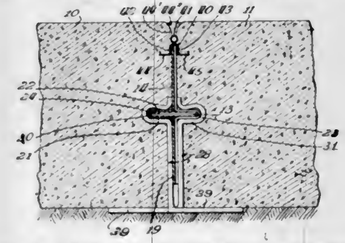
1. An internal combustion engine comprising a magneto electric ignition apparatus, an adjusting device for adjusting the ignition timing from retarded to advanced ignition comprising a piston moving in a cylinder, which is loaded on the one side by a spring and on the other side by fluid pressure, a pumping device driven indirectly from the crank shaft of the engine for producing the pressure fluid, the piston providing in its one end position for advanced ignition, in its second end position for retarded ignition and in a mean position for a mean ignition timing, and a return conduit in the cylinder wall for the pressure fluid for establishing the mean piston position, means to discharge the pressure cylinder of the pumping device.

2,167,903
ABSORPTION REFRIGERATING SYSTEM
Rudolph S. Nelson, Larchmont, N. Y., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application August 8, 1936, Serial No. 94,936
8 Claims. (Cl. 62—119)



1. An absorption refrigeration system comprising a boiler, an analyzer, a condenser, an evaporator, and an absorber connected in circuit, said circuit including means for the circulation of absorption solution between said boiler and said absorber, said circuit being characterized by the provision of means for delivering independent streams of absorption solution to said analyzer at spaced points therealong whereby the analyzing effect of said independent streams upon the fluids in said analyzer is distributed over different portions of said fluids.

2,167,904
CONCRETE EXPANSION AND CONTRACTION JOINT
Clifford Older, Wilmette, Ill.
Application May 18, 1936, Serial No. 80,281
13 Claims. (Cl. 94—18)



1. In a joint for facilitating contraction of

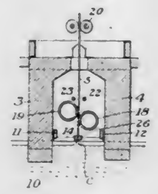
sections of concrete in a pavement, the combination of a sliding dowel plate with a division plate formed with upper and lower body portions and with an intermediate continuous groove for engaging the dowel plate, and a plurality of clamping members adapted to hold the walls of said groove in tight engagement with said dowel plate to assure a close sliding fit between the dowel plate and its socket in the concrete pavement, said clamping members comprising stiff metal members having a stable supporting surface, an upright portion, and a pair of parallel flanges engaging the outer walls of the grooved portion of said division plate.

2,167,905

SHEET GLASS AND APPARATUS AND METHOD FOR MANUFACTURE THEREOF

Ingvald O. Pedersen, Pittsburgh, and Clarence P. Byrnes, Sewickley, Pa., assignors to Clarence P. Byrnes, Sewickley, Pa., trustee

Application October 16, 1933, Serial No. 693,700
25 Claims. (Cl. 49—17)



10. In sheet glass apparatus, means for drawing a sheet of glass upwardly through a substantially straight vertical path from a mass of molten glass, and a pair of members adapted to engage opposite surfaces of the sheet as it is being drawn upwardly and while it is still in a semi-plastic condition, said members being arranged in different horizontal planes and positioned relative to one another to have a wiping or smoothing action upon the opposite surfaces of said sheet to batten or iron out any irregularities therein, without materially deflecting the sheet from its normal vertical path of travel.

2,167,906

PROCESS OF CASTING

Carl Piel, Solingen, Germany

No Drawing. Application January 25, 1937, Serial No. 122,211. In Germany January 27, 1936

2 Claims. (Cl. 22—212)

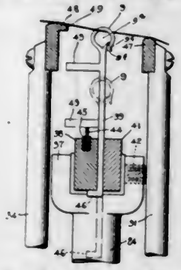
1. A process of making copper alloy castings in metal molds, which process comprises the steps of immersing the mold into a water bath containing powdered insulating material finely dispersed therein until the mold has been chilled to a temperature below 80° C. and a thin insulating coating has been formed on its inner surface, and then casting into said mold an alloy of copper with between 10 and 15 percent lead and about one percent of a substance selected from the group consisting of earth metals, silicon and manganese.

2,167,907

WARP STOP MOTION

Brian Plunkett, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

Application July 23, 1937, Serial No. 155,208
5 Claims. (Cl. 28—51)



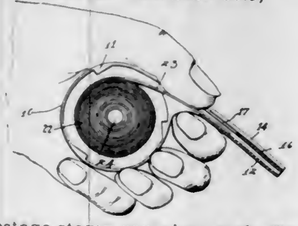
1. A drop wire for use in a textile machine of the class described, comprising a thin, flat metal shank having a split eye in the upper extremity thereof, and a plurality of extensions in the same plane as said shank and at right angles thereto.

2,167,908

POSTAGE STAMP CONTAINER AND AFFIXER

Samuel G. Richards, Des Moines, Iowa

Application April 18, 1938, Serial No. 202,730
3 Claims. (Cl. 242—55.5)



1. A postage stamp container and affixer, comprising a cylindrical body portion open at one side and having a fixed post at its central portion to receive a roll of stamps, a detachable cover for the open end of the body, said body and cover having co-acting locking lugs to secure the cover in position on the body, and said cover also having a projecting handle and cover device fixed thereto, a guide device projected from the periphery of the body and having its side edges extended upwardly and then inwardly toward each other, a portion of the side of the guide member adjacent the body being open and said projecting handle and cover device being shaped to cover said open portion of the guide device when in position on the body, and a yielding top member for the guide device formed with a slot and inserted below the inwardly extended edges of the guide member.

2,167,909

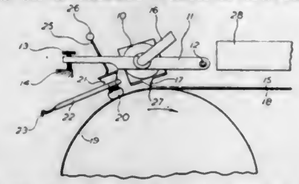
MANUFACTURE OF MATERIALS HAVING AN ORGANIC BASIS

James Henry Rooney and Philip Richard Hawtin, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware

Application September 25, 1936, Serial No. 102,490
In Great Britain October 3, 1935
7 Claims. (Cl. 18—57)

1. In a process for the manufacture of films,

foils, ribbons and like products by extruding a film-forming composition containing a volatile solvent into an evaporative atmosphere, wherein the film-forming composition shaped during the extrusion thereof is drawn into contact with and supported on a surface which is travelling in a



gaseous medium, the steps of causing the supporting surface to travel at a speed of at least 25 feet per minute and maintaining a pocket of liquid in the angle between the shaped composition and the supporting surface so as to prevent the gaseous medium being drawn into said angle.

2,167,910

THREADED AND OTHER BOLTS, PINS, AND THE LIKE

Henry Rottenburg, Cambridge, England

Application October 30, 1937, Serial No. 171,857
In Great Britain November 6, 1936
1 Claim. (Cl. 85—1)



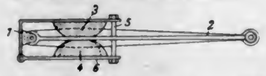
A threaded bolt stepped at its end to form a single eccentric spigot extension onto whose outer surface the last complete thread crest on the bolt proper is continued without interruption, said spigot extension including at least one further thread segment and having at its free end a maximum transverse dimension substantially less than the overall diameter of said bolt, and the end face of the bolt proper being helically cut, at least adjacent its periphery, to follow said last complete thread crest.

2,167,911

SUSPENSION SYSTEM FOR VEHICLES

Georg Heinrich Schieferstein, Berlin-Charlottenburg, Germany

Application April 23, 1936, Serial No. 75,976
In Germany April 25, 1935
5 Claims. (Cl. 267—21)



1. A suspension system for vehicles comprising two rigid plates, a solid rubber cushioning member having a smaller contact surface and a considerably larger contact surface, said member having such a form that at least one longitudinal section thereof corresponds to a circle segment, and a transmission lever pressing against said member, said member being vulcanized both on its larger and smaller contact surfaces to said rigid plates respectively.

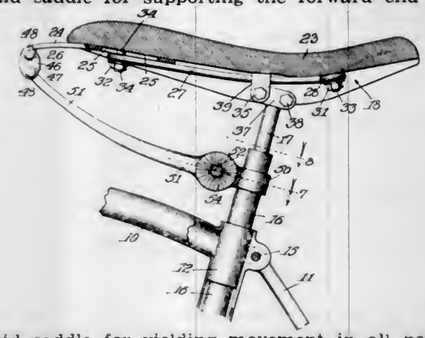
2,167,912

CYCLE-SADDLE SUPPORTING MEANS

Frank W. Schwinn, Chicago, Ill.

Application February 14, 1936, Serial No. 63,959
10 Claims. (Cl. 155—5.19)

8. A saddle and supporting structure therefor comprising a member for attachment to a cycle frame, a saddle, means resiliently supporting said saddle on said member and on which said saddle is adapted to be tilted into different positions in a vertical plane, said means comprising a spring within the member on which the plunger rests, clamps means adjustable longitudinally of the saddle and pivoted to the upper end of the plunger, an arm on said member extending forwardly therefrom and connected at its forward end with said saddle for supporting the forward end of



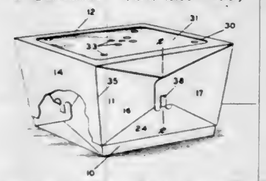
said saddle for yielding movement in all positions of said plunger, and means for adjusting the forward end of the arm upwardly and downwardly for varying the height at which the forward end of the saddle extends.

2,167,913

PASTEBOARD CARTON

Louis E. Shaw, East Orange, N. J.

Application March 2, 1937, Serial No. 128,562
9 Claims. (Cl. 229—35)



1. In a device of the class described, a hollow article comprising a four-sided central portion having four flanges projecting respectively and integrally from the four edges of the central portion and bent therefrom to form four sides, two opposing pairs of the flanges provided with extensions from each end forming wings and each wing being bent from its associated flange and overlapping the next adjacent flange, each wing terminating in a shouldered end, the other pair of flanges overlapped by the wings being each provided with a bendable fastening clip having one end permanently secured to its associated other flange and having a free end adapted to be bent back upon itself into position to form a retaining finger adapted to be engaged by the said shouldered ends to retain the four sides in place.

2,167,914

PROCESS OF IMPROVING REGENERATED CELLULOSE

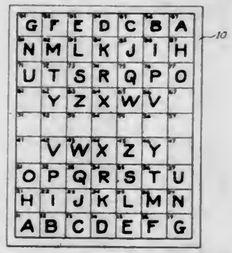
Fritz Siefert, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application September 29, 1938, Serial No. 232,287. In Germany November 12, 1937

6 Claims. (Cl. 260—212)

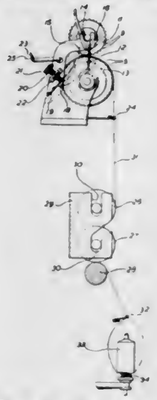
1. The process of improving regenerated cellulose, which comprises treating it with a formaldehyde solution in the presence of an aromatic sulphocarboxylic acid and subjecting it to a drying process.

2,167,915
GAME
Donald H. Sweet, Evanston, Ill.
Substitute for abandoned application Serial No. 225,802, February 20, 1928. This application March 18, 1933, Serial No. 661,426
7 Claims. (Cl. 273—131)



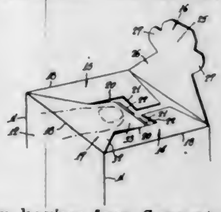
6. Apparatus for playing a game of the general type of checkers or chess according to which game each playing piece may be moved backward or forward, sideways, or diagonally through any number of unoccupied spaces, said apparatus comprising a rectangular game board divided into seven rows of playing areas each row containing nine areas, and two sets of playing pieces each containing twenty-six pieces, one marked with each letter of the alphabet, whereby the playing pieces when all on the board will so nearly fill the board as to properly restrict the play at the beginning of a game.

2,167,916
PRODUCTION OF YARN CONTAINING STAPLE FIBER FROM CONTINUOUS FILAMENTS
William Ivan Taylor and Alfred Herbert Woodruff, Spondon, near Derby, England, assignors to Celanese Corporation of America, a corporation of Delaware
Application February 5, 1937, Serial No. 124,208 In Great Britain February 22, 1936
6 Claims. (Cl. 19—1)



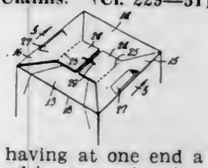
2. Method of producing yarn containing staple fiber from continuous filaments, said method comprising drawing a bundle of continuous filaments between and in contact with a cutting surface and a further surface, pressing said bundle against said cutting surface by means of said further surface, utilising the pull of said filaments to drive said cutting surface in the same direction as the bundle of filaments, and imposing a continuous non-positive resistance against the motion of said cutting surface so that it is driven at a lower speed than said bundle of filaments.

2,167,917
CARTON
Clarence W. Vogt, New York, N. Y., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio
Application April 29, 1936, Serial No. 76,898
6 Claims. (Cl. 229—39)



1. A carton having four flaps at one end, two of which are adapted to form the inner opposed closure flaps and the other two the outer opposed closure flaps, said inner flaps each having an L-shaped slit with one portion disposed substantially parallel to the base of the flap and another portion extending to the end of the flap, one of said outer flaps having side tabs adapted to be inserted through said slits to interlock said latter flap and said inner flaps when in carton closure position, the other outer flap being provided with a tongue at its outer end having a maximum width substantially equal to the distance between said slits when said inner flaps are in said carton closure position.

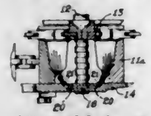
2,167,918
CARTON
Clarence W. Vogt, Saugatuck, Conn., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio
Application September 26, 1936, Serial No. 102,683
6 Claims. (Cl. 229—51)



1. A carton having at one end a pair of rectangular opposed inner overlapping closure flaps and a pair of outer opposed closure flaps, one of said first pair of flaps having an easily severable portion at its outer end, and each of said latter extensions having an easily severable portion at its outer end overlapping said first mentioned easily severable portion and means for securing said severable portions together, whereby they may be removed as a unit.

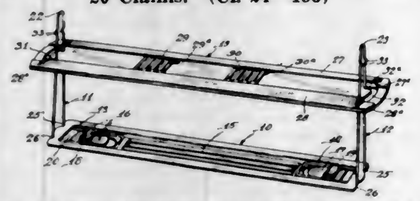
2,167,919
PRESS MOLD AND MEANS FOR COOLING THE MOLD
Frank L. O. Wadsworth, deceased, late of Pittsburgh, Pa., by Mildred M. Wadsworth, administratrix, Pittsburgh, Pa., assignor to Ball Brothers Company, Muncie, Ind., a corporation of Indiana
Original application March 4, 1935, Serial No. 9,133. Divided and this application June 1, 1937, Serial No. 145,668
4 Claims. (Cl. 49—40)

2. In a machine for fabricating glassware, a mold having separable body sections, means for opening and closing said body sections, a member over which said body sections slide during opening and closing, said member having ports therein arranged so as to direct a current of cooling medium against the inner surface of each body



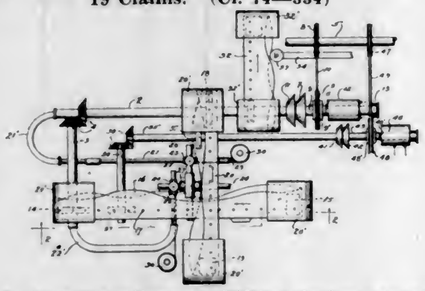
section when said mold is open, and a lug on each body section and having an opening therein for registering with one of said ports when said mold is closed whereby cooling medium is directed against the outer surfaces of said body sections.

2,167,920
PAPER FASTENER
Chester I. Wagner, Brooklyn, N. Y., assignor to Safety Fastener Co., Bloomfield, N. J., a corporation of New Jersey
Application November 12, 1938, Serial No. 240,032
20 Claims. (Cl. 24—153)



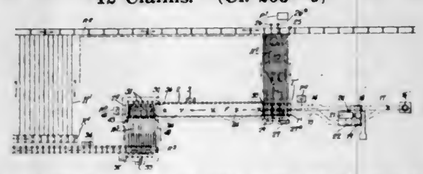
17. A paper fastener comprising an elongated base, a prong for each end of said base, a compressor having substantially U-shaped openings one at each end and longitudinally extending guides along each side, each of said prongs comprising a wire looped back upon itself in a spaced relation, the looped end of each of said prongs being adapted to be inserted through apertures in the paper and the U-shaped openings and then bent inwardly toward each other over said compressor, latching means slidable on said guides the open ends of said prongs being secured to said base, and means on said prongs providing interlocking resilient engagement with said latching means when said latching means is moved over said prongs, the material bounding the U-shaped openings of said compressor maintaining the spaced relation of the wire of each of said prongs.

2,167,921
AUTOMATIC GEARSHIFT
Glenn W. Watson, Detroit, Mich.
Application December 30, 1937, Serial No. 182,548
19 Claims. (Cl. 74—334)



1. An automatic gear shifting device comprising a pair of matrices each having a developed edge, means for propelling said matrices, a carriage supported adjacent to said matrices for movement in any direction in a plane, contact members extending from said carriage and engaging said developed edges, whereby said carriage is actuated from said matrices, and a gear shifting member carried by said carriage.

2,167,922
RAIL TREATMENT FURNACE AND CONTROL MEANS THEREFOR
Albin G. Witting and John Fred Headlee, Gary, Ind.
Application May 20, 1938, Serial No. 209,128
12 Claims. (Cl. 263—6)

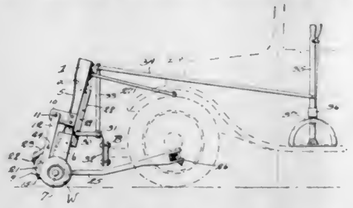


1. Apparatus for the heat treating of rails and similar elongated steel articles comprising in combination an elongated roller bottom furnace having inlet and outlet openings in opposite ends and movable closure members for said openings, means to heat the interior of the furnace to a desired operating temperature, means to forwardly drive the rollers of the roller bottom and means to oscillate the rollers of the roller bottom in forward and reverse drives, an approach table located adjacent the inlet end of the furnace and a delivery table located adjacent the outlet end of the furnace, each of said tables being provided with rollers aligned with the rollers of the said roller bottom to feed rails into the furnace and to receive rails discharged from the furnace respectively, separate drive means for each said table to forwardly drive the table rollers, clutch means to engage the table and furnace forward driving means to synchronize the forward driving of all the rollers, and means to selectively energize the said clutch means, the said forward driving means of the tables and furnace rollers and the oscillating means of the furnace rollers to obtain a periodic forward driving of all the rollers with an accompanying periodic feeding of rails into the said furnace from the approach table, a periodic advancement of the rails through the furnace and a periodic discharge of the rails from the furnace onto said delivery table and an oscillation forward driving of the table and an oscillation of the furnace rollers intermediate each periodic forward driving of the said tables and furnace rollers.

2,167,923
MACHINE FOR DESTROYING GRASSHOPPERS OR THE LIKE
Carl Leffler and Leslie B. Gosselin, Greeley, Colo.
Application August 19, 1937, Serial No. 159,966
3 Claims. (Cl. 43—138)

1. A machine for destroying grasshoppers or the like comprising a wall structure, means for connecting said wall structure in advance of a motor vehicle, said connecting means holding said wall structure in a substantially vertical position, with the lower marginal portion of the wall structure in close proximity to the surface over which the machine traverses swinging arms operatively supported by the end portions of the

wall structure in advance thereof, a central bearing member carried by the lower portion of the wall structure, end bearing members carried by the wall structure, crushing rollers rotatably supported by the end bearing members and the central bearing member, additional crushing



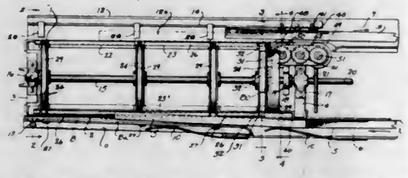
rollers for coaction with the first named crushing rollers rotatably supported by the swinging arms and also by the central bearing member, said central bearing member permitting the adjacent end portions of the second named rollers to have movement relative to the first crushing rollers.

2,167,924

TURNING DEVICE

Adolph B. Bennes, Tacoma, Wash., assignor, by direct and mesne assignments, of forty per cent to Harmon Manufacturing Company, Inc., Tacoma, Wash., a corporation of Washington, and sixty per cent to F. S. Harmon Manufacturing Company, Tacoma, Wash.

Application August 20, 1937, Serial No. 160,116
8 Claims. (Cl. 144—242)



1. A machine of the character described, comprising parallel rail receiving and delivery guideways, a rail turning frame mounted to rotate on an axis parallel with and between the said guideways, means normally holding the turning frame against rotation and means operable automatically upon delivery of a rail into the receiving guideway to cause a rotative action of the turning frame and rail contact means on said frame whereby the said rail will be moved from the receiving guideway along said rail guide devices for delivery thereby in an inverted position into the delivery guideway; said guide devices being circularly curved about an axis that is slightly eccentric of the axis of the turning frame and off-set toward the receiving side of the receiving guideway to cause the rail, in turning, to be displaced in the clear of the contact device of the turning frame.

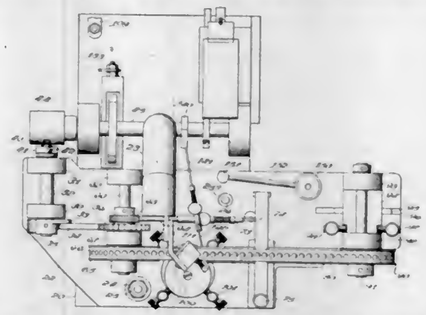
2,167,925

WELDING SMALL TIPS TO BASES

Bruce C. Chandler, Waukegan, Ill., assignor to Pfanstiehl Chemical Company, a corporation of Illinois

Application August 12, 1938, Serial No. 224,640
9 Claims. (Cl. 219—4)

1. In a tip welding machine adapted to weld small tips to bases and provided with means for passing a welding current through tip and base; a movably mounted base-holder; a tip-supporting member; a positioning member associated with the base-holder and tip-supporting member provided with a series of spaced indentations;



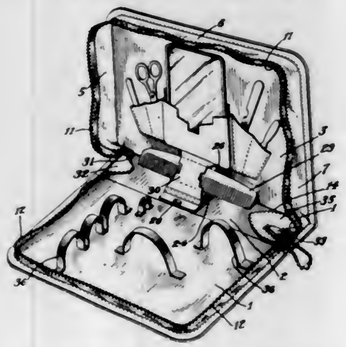
means for advancing the positioning member to move a tip in an indentation to a predetermined position below the base-holder; and means for retracting the positioning member a distance less than the width of an indentation.

2,167,926

TRAVELING KIT

Jacob Glasker, Boston, Mass., assignor to Corliss Manufacturing Co., Boston, Mass., a corporation of Massachusetts

Application June 7, 1937, Serial No. 146,735
9 Claims. (Cl. 132—79)



1. In a book type case comprising a back strip, a bottom, and a top hingedly (or pivotally) connected to opposite sides of said back strip so that when the case is open the top, back strip and bottom may lie flat in substantially the same plane, side walls between the top and bottom when the case is closed extending about the free edges, and a zipper fastener for said side wall to permit the case to be opened or closed, one end of said side wall and zipper fastener being free and having no connection with the back strip, a fastening means independent of any integral structure essential for the book type case structure detachably connected between the back strip and a portion of the top including the free end of side wall whereby said flat book type case may be converted into a stand-up case of the box type in which the box is reversed so that the top serves as a base in the same plane as the back strip when the case is open and the box portion is in upright position.

2,167,927

HALO-SUBSTITUTION OF ETHYLENE

Herbert P. A. Groll and George Hearne, Berkeley, and James Burgin and Donald S. La France, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application March 4, 1938, Serial No. 193,848
18 Claims. (Cl. 260—656)

1. A process for the chlorination of ethylene to vinyl chloride by direct chlor-substitution at an elevated temperature which comprises subjecting ethylene to reaction with chlorine at a minimum temperature of from 300° C. to 500° C.

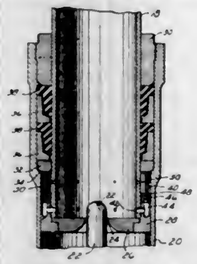
15. A process for the halogenation by direct halo-substitution of an unsaturated organic compound of the class consisting of ethylene and its halo-substitution products containing at least one hydrogen atom which comprises subjecting such an unsaturated organic compound to reaction with a halogen at a minimum temperature of at least 200° C. but below the temperature at which substantial degradation is favored.

2,167,928

SHOCK STRUT

Carl V. Johnson, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana

Application December 30, 1936, Serial No. 118,202
16 Claims. (Cl. 267—64)



1. In a shock strut, a pair of telescoping liquid and fluid cylinders, guiding means associated with the cylinders to align them, packing means between the cylinders, a liquid chamber between the cylinders, connecting means extending transversely through the wall of one of said cylinders communicating with said chamber, pressure actuated valve means controlling the connecting means to admit liquid to said chamber freely as the cylinders are moved in the telescoping direction and to close the chamber to fluid when the cylinders are moving in the extended direction, and metering orifices to permit escape of liquid from said chamber.

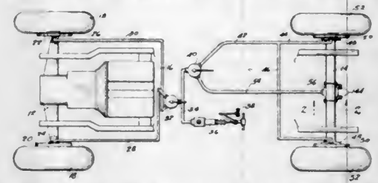
2,167,929

AUTOMOBILE

Russell E. Johnson, Mishawaka, Ind.

Application July 6, 1937, Serial No. 151,985
4 Claims. (Cl. 180—1)

3. In a parking device for an automobile which is provided with a pair of wheels at the front and with a pair of wheels at the rear and with brakes for said wheels, means for applying said brakes comprising wheel cylinders at each brake, a master cylinder, conduits connecting said wheel cylinders and said master cylinder, valve means for selectively disconnecting the wheel cylinder at one of the wheel brakes at one end while allowing the master cylinder to force pressure fluid to the other wheel cylinder for thus holding one of the wheel brakes at said end applied, means comprising a jack positioned adjacent to the other end of the automobile, operated by fluid pressure, and



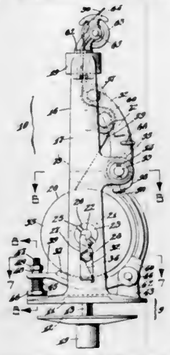
arranged to be connected by said valve means to said master cylinder, whereby the said other end of the vehicle is raised upon said jack, and a caster associated with said jack whereby the said other end of the automobile when raised on said jack is moved laterally for parking.

2,167,930

BRAIDING CARRIER

Max Krisslep, Wyomissing, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania

Application August 13, 1937, Serial No. 158,835
10 Claims. (Cl. 96—13)



1. In a carrier for braiding machines and the like, the combination comprising a base portion, a standard extending from said base portion, a bobbin rotatably mounted on said standard including circular end flanges, and a brake structure cooperating with said flanges; said brake structure comprising a brake block having brake shoes respectively aligned with said flanges, a stud member secured to the base portion, and resilient means supported by said stud cooperating with said brake block for biasing said brake shoes into engagement with said flanges.

2,167,931

PURIFICATION OF RELATIVELY WATER INSOLUBLE DERIVATIVES OF FATTY ACIDS

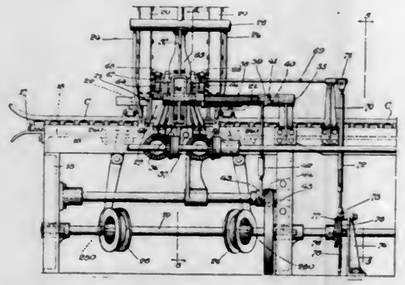
Sumner H. McAllister, Lafayette, and George F. Johnson, San Francisco, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application June 14, 1937, Serial No. 148,106
15 Claims. (Cl. 260—404)

1. In the purification of imido alkylols, the steps comprising dissolving the crude imido alkylols in a liquid compound selected from the group consisting of the ethers and ketones having

at least five carbon atoms, subjecting the solution to a washing treatment with an aqueous extractant and recovering a purified product from the solution.

2,167,932
MATCH BOOKING MACHINE
Eric P. Olson, Brooklyn, N. Y., assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Application November 12, 1938, Serial No. 239,976
5 Claims. (Cl. 93—2)



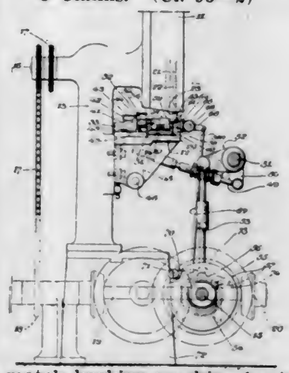
1. In a booking machine, the combination of a magazine for flexible covers, cover folding means adjacent said magazine, means including a transfer member arranged and adapted to withdraw each succeeding cover from the magazine and position the cover with one end thereof in the effective path of the folding means, die means in cooperative relation to said transfer member to groove the body of the cover transversely in spaced parallel lines before the action of the folding means on the positioned cover, thus providing the cover with hinge portions, and means for operating said die means in timed relation to the folding means.

2,167,933
ORTHOPEDIC FOOT ARCH SUPPORT
Hans Seligmann, Munich, Germany, assignor to Heinz Reichmann, Chicago, Ill.
Application November 10, 1937, Serial No. 173,765
In Germany November 21, 1936
5 Claims. (Cl. 36—71)



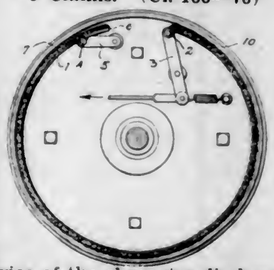
1. An orthopedic foot arch support comprising a hollow liquid-filled expansible rubber body consisting of parts shaped to conform to the under surface of the heel, ball and side portions of the foot, and a central preformed arched portion on the upper side thereof corresponding to the foot arch, and a solid leather covering surrounding said heel, ball and side portions only whereby said heel, ball and side portions are rendered substantially inexpansible and said preformed portion remains unaffected such that on pressure being applied to said inexpansible portions, liquid will be displaced from said inexpansible portions into said preformed expansible portion, a supporting effect corresponding to the load moment at the time and a balancing of the foot arch being thereby attained.

2,167,934
MATCH-BOOKING MACHINE
Charles F. Wright, Akron, Ohio, assignor to The Diamond Match Company, New York, N. Y., a corporation of Delaware
Application October 5, 1938, Serial No. 233,367
8 Claims. (Cl. 93—2)



1. In a match booking machine having means for successively advancing book assemblies, each consisting of matches and a flexible cover therefor having a fold embracing the matches, and a stitcher including a presser foot and staple driver for binding the folded end of the assembly, relatively movable jaws for clamping and shaping the folded end of the assembly preparatory to the binding operation, and means for actuating said jaws in timed relation to the presser foot and staple driver of the stitcher.

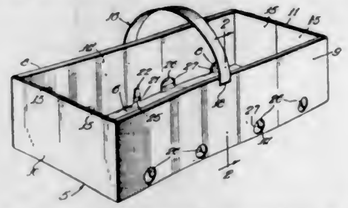
2,167,935
CLUTCH OR BRAKE BAND
Forrest V. Borden, San Luis Obispo, Calif.
Application August 8, 1938, Serial No. 223,595
3 Claims. (Cl. 188—78)



1. A device of the character disclosed comprising a circular split band provided on the underside with means for securing one end of said band, said band having an inflexible extension projecting beyond said securing means and said extension having a stop and being inwardly curved at the end thereof to an extent substantially equal to the height of said stop, and a lining secured to said band and extension and abutting against said stop.

2,167,936
PAPERBOARD BASKET
Paul J. Brooks, Lakewood, Ohio, assignor to The Hankins Container Company, Cleveland, Ohio, a corporation of Ohio
Application February 23, 1938, Serial No. 192,019
8 Claims. (Cl. 229—34)

3. A paperboard basket comprising a bottom, side and end walls, flap extensions integral with the upper edges of the side walls and arranged to be folded downwardly to lie along the inner faces of the side walls, a thin, flexible handle element for the basket, each side wall being formed with an opening adjacent the top edge thereof to receive the ends of the handle element, and means for engaging the lower ends of the handle element with the lower portion of the inturned side wall flap extensions after the ends of the handle element have been inserted in the openings in the side walls, such means also serving to retain the lower end portions of the handle element from shifting movement longitudinally of the basket.

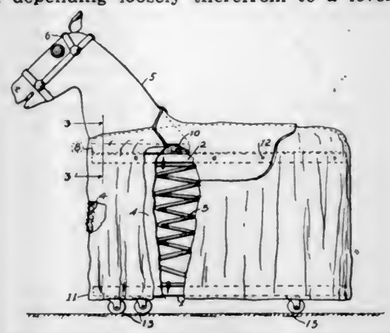


5. A paperboard basket comprising a bottom, side walls and end walls secured thereto, flap extensions on the upper edges of the side walls and of substantially the same width as the side walls to provide side walls of at least double thickness throughout substantially their entire areas when the flap extensions are folded down against the side walls, means for retaining the side wall flap extensions in place along the inner faces of the side walls of the basket, the side walls of the basket being formed with a series of ventilating openings adjacent the bottom edge thereof, and the side wall flap extensions being each formed with a series of openings adjacent their outer free edges adapted to register with the openings in the side walls.

7. A handle for a paperboard basket, said handle comprising a strip of sheet metal bent into U-shape, said strip having the central portion thereof bent transversely into downwardly directed convex shape to stiffen such portion and to facilitate the grasping thereof by the hand, said strip also including additional portions, one on each side of and spaced from the central stiffened portion, said additional portions being bent transversely into inwardly directed convex shape to stiffen such portions, the portions of the handle lying between the separated stiffened portions being readily bendable whereby, when the strip is bent into U-shape, the bending of the strip will be restricted to the areas between the stiffened portions, the ends of said strip being adapted for ready attachment to the side portions of a basket.

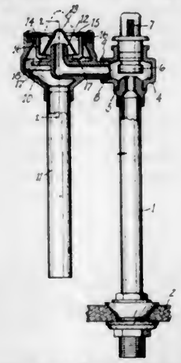
2,167,937
TOY
George W. Clanton, San Jose, Calif.
Application December 15, 1937, Serial No. 179,904
1 Claim. (Cl. 280—1.22)

A toy of the character described comprising, a pair of spaced members having springs inserted therebetween to urge them apart, a flexible member completely enveloping the springs and edges of the members to limit their separation, a head member mounted on the outer side of one end of one of the spaced members to overhang the same, a caster mounted on the other spaced member directly below the head member, other casters mounted on said spaced member and equally spaced from the center thereof and disposed adjacent the front and rear side edges, and a blanket covering the first spaced member and depending loosely therefrom to a level be-



low the second spaced member and completely enveloping the flexible member.

2,167,938
VACUUM BREAKING BALL COCK
Herbert D. Clemmons, Sturgis, Mich., assignor to Scovill Manufacturing Company, Sturgis, Mich., a corporation of Michigan
Application February 13, 1939, Serial No. 256,050
10 Claims. (Cl. 137—69)

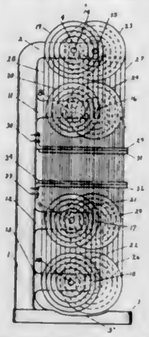


1. A vacuum breaker comprising a discharge chamber having a downwardly directed discharge at the bottom thereof and a central opening to the atmosphere at the top thereof, an upwardly directed liquid delivery nozzle disposed centrally of said chamber, a disk-like guard member disposed centrally within said chamber in surrounding relation to said nozzle and substantially below the tip thereof, a conical valve for said air opening disposed above said guard member, a cage for supporting said valve centrally above said nozzle to receive the impact of liquid discharged therefrom which acts to close the valve, said cage being adapted to support the valve in its open position with its lower edge in spaced relation to said guard, a refill tube, and a supply passage therefor opening to said chamber above said guard member.

2,167,939
SLICING MACHINE
Harry J. Criner, Davenport, Iowa, assignor of one-half to A. G. Bush, Davenport, Iowa
Application May 23, 1938, Serial No. 209,495
20 Claims. (Cl. 146—88)

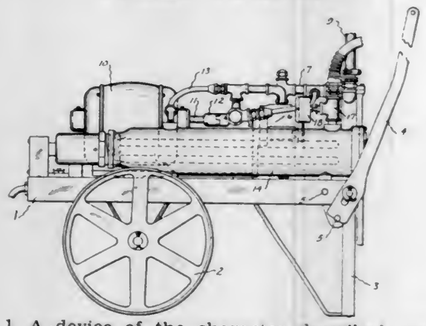
1. In a slicing machine of the class described, a

frame, an inner and an outer pair of parallel spaced shafts mounted in line upon the frame and extending forwardly therefrom, an inner and an outer pair of parallel spaced shafts mounted in line upon the frame and extending rearwardly therefrom, stepped cone pulleys mounted upon the shafts, the peripheries of the respective steps upon the outer pulleys having radii exceeding the



radii of the corresponding steps of the inner pulleys by the thickness of a slice of bread designed to be sliced thereby, band-blades mounted upon the corresponding peripheries of the steps of the inner pulleys respectively, band-blades mounted upon the corresponding peripheries of the steps of the outer pulleys respectively, and means for driving the pulleys.

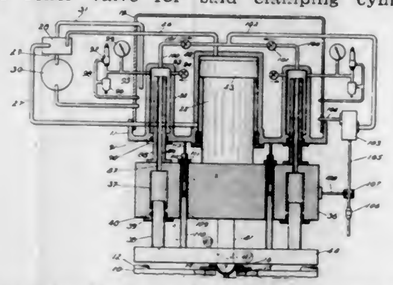
2,167,940
HEATING AND SPRAYING APPARATUS
John A. Erickson, Jackson, Mich.
Application February 16, 1935, Serial No. 6,803
8 Claims. (Cl. 299—46)



1. A device of the character described comprising a pump, liquid conducting means for connecting said pump with a source of liquid supply, a heating chamber connected to said pump for receiving liquid under pressure from said pump, means to automatically prime said pump at all discharge pressures with liquid from said heating chamber, and means for conducting fluid under pressure from said chamber.

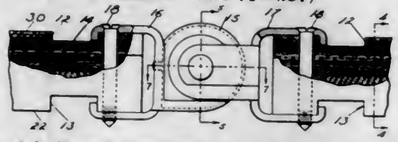
2,167,941
DOUBLE-ACTING PRESS
Walter Ernst, Mount Gilead, Ohio, assignor to The Hydraulic Press Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application September 16, 1936, Serial No. 101,110
9 Claims. (Cl. 113—45)

1. In combination in a drawing press, a press frame having a main cylinder and an auxiliary cylinder, a main plunger in said main cylinder, a platen operated thereby, a hollow auxiliary plunger connected to said platen and reciprocable in said auxiliary cylinder, a clamping cylinder associated with said platen and communicating with said hollow auxiliary plunger, a clamping plunger adapted to clamp the workpiece during the drawing operation, and an adjustable pressure relief valve for said clamping cylinder



adapted to effect the discharge of pressure fluid from said clamping cylinder at a predetermined pressure, the working surfaces on the heads of said auxiliary plunger and main plunger being positioned in similar directions relatively to said platen whereby the pressure fluid generated in said clamping cylinder during the clamping operation acts against said auxiliary plunger to assist the urge imparted to said platen by said main plunger.

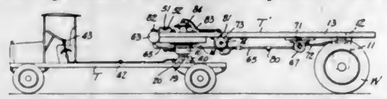
2,167,942
BELT UNIT
Abraham L. Freedlander, Dayton, Ohio, assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application September 30, 1936, Serial No. 103,418
2 Claims. (Cl. 74—237)



1. A belt unit comprising an elongated resilient body with inclined side walls and of a thickness relatively large in proportion to its width having a lower portion of rubber and textile insertions, a compression layer of rubber and textile insertions above said portion, a layer of rubber with straight laid textile insertions above said compression layer, a flexible longitudinal inextensible band of metal-like material with multiple rows of interengaging links near the neutral axis of the belt, a tension portion of rubber having textile insertions therein above said band, an outer wrapper surrounding said parts of the belt, a belt connector joining the free ends of the linked band, and clamping members secured to said connector and passing through the free ends of the elongated body and said flexible band to join said flexible band to said belt connector.

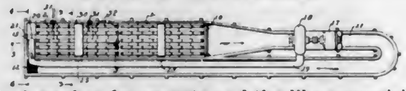
2,167,943
STEERING MECHANISM
Frederick A. Fox, Glendale, Calif.
Application August 20, 1937, Serial No. 160,078
16 Claims. (Cl. 280—33.5)

1. Steering mechanism comprising means for coupling a vehicle having steerable rear wheels to a towing vehicle; means responsive to steering movement of the towing vehicle, to accordingly steer the rear wheels of the towed vehicle; means adapted for co-action with the second means to prevent operation thereof in response to steering



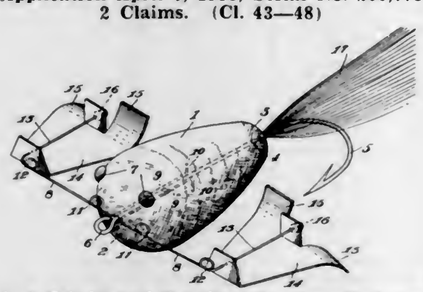
movement of the towing vehicle, and with the rear wheels of the towed vehicle locked in a straight-ahead position; and manually operable means on the towing vehicle operatively connected to the last means for actuation of the latter from a point on the towing vehicle.

2,167,944
WASHER
Daniel H. Gillham and Grover H. Meade, San Jose, Calif.; said Meade assignor to said Gillham
Application December 21, 1936, Serial No. 117,023
6 Claims. (Cl. 146—194)



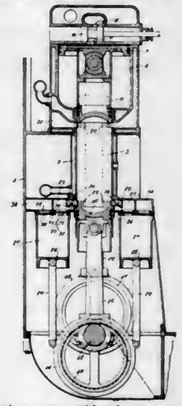
1. A washer for carrots and the like comprising, a water tank having a well at one end provided with a discharge outlet to the tank above the level of the water therein and an overflow discharge at its other end, a trough connecting the overflow and well, a source of fluid pressure, and a conduit leading said source into the well to force water to overflow from the well to the tank.

2,167,945
FLY-ROD FISH LURE
Jewell A. Gilliam, Wingo, Ky.
Application April 7, 1938, Serial No. 200,778
2 Claims. (Cl. 43—48)



1. A fish lure of the character described, comprising an elongated body of buoyant material, said body being of an enlarged diameter at one end and tapering toward the other end, means at the said one end for attaching a fish line to the body whereby the body may be drawn longitudinally on the water, a hook member having a shank secured in the said other end of the body, shielding means for said hook secured in the said other end of the body, a pair of resilient arm members secured to the said enlarged end of the body at substantially the longitudinal center thereof and extending laterally in opposite directions, each of said arm members terminating in a rearwardly directed portion which lies rearwardly of the forward end of the body, and a spinner member mounted upon each of said rearwardly directed portions, each of said arms being provided between the body and the laterally directed portion thereof with a loop designed to impart resiliency thereto.

2,167,946
INTERNAL COMBUSTION ENGINE
Edward Gray, Detroit, Mich., assignor of one-half to Gar Wood, Detroit, Mich.
Original application May 15, 1933, Serial No. 671,177, now Patent No. 2,119,535, dated June 7, 1938. Divided and this application June 14, 1937, Serial No. 148,088
7 Claims. (Cl. 123—51)

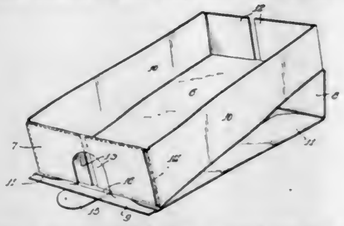


1. In combination, a cylinder, a pair of opposed pistons in said cylinder, a power shaft, means connecting said pistons with said power shaft for converting rectilinear movement of said pistons into rotary movement of said power shaft, said cylinder having intake and exhaust ports in the wall thereof adapted to be covered and uncovered by respective pistons, the intake ports being disposed whereby they are uncovered and remain uncovered by their respective piston for a longer period in a cycle of the engine than said exhaust ports, a manifold in communication with said intake ports, means for supplying air under pressure to said manifold, a supplemental valve between said intake ports and said manifold and adapted to prevent communication between the interior of said cylinder and said manifold until after the exhaust ports have been uncovered, said means for supplying air under pressure to said manifold comprising a pair of pumps mounted on diametrically opposite sides of said cylinder, and means connecting said pumps with the motion converting means of one of said pistons for actuation thereby.

2,167,947
CONTAINER
Harold J. Hayes, East Orange, N. J., assignor to The Hankins Container Company, Cleveland, Ohio, a corporation of Ohio
Application September 23, 1938, Serial No. 231,315
5 Claims. (Cl. 206—44)

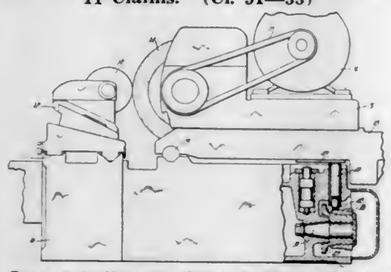
1. A container comprising a bottom panel having front, rear, and two side walls hinged thereto, a cover for the container hinged to the upper edge of the rear wall, means for retaining the front wall in upright position relative to the bottom panel, a pull-tab on the container adapted to extend beyond its front wall, the cover and rear wall being foldable to a position beneath the

container so as to form a supporting easel to support the rear end of the container in an elevated position with the front of the cover disposed beneath and adjacent the front of the



container, the cover being provided with means engageable with the pull-tab whereby the container may be retained in an open, inclined position.

2,167,948
CAMBERING MECHANISM FOR GRINDING MACHINES
Charles Herfurth and Kennon T. Schledorn, Cincinnati, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application April 25, 1938, Serial No. 204,082
11 Claims. (Cl. 51—33)



1. In a grinding machine having a work support and a grinding wheel, the combination of a pivoted support for effecting radial movement of the grinding wheel toward and from the rotational axis of the work, means for relatively positioning the work and the grinding wheel with its central plane intersecting the longitudinal center of said rotational axis, a cam follower carried by said pivoted support and movable in a fixed plane, a shaft lying in said plane, a circular cam surrounding said shaft with its periphery in contact with said follower, and eccentricity adjusting means in the form of an eccentric between said shaft and said cam supported for relative rotation with respect to both of said parts for adjustably positioning the effective center of said cam with respect to the shaft and along said fixed plane for determining the diameter of the work at its longitudinal center, and means to cause synchronized movement of the cam and of the work relative to the wheel to produce a cambered surface on the work.

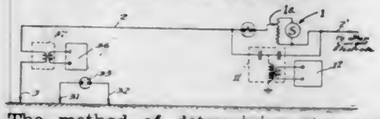
2,167,949
WIDE BRUSH SECTION
Lawrence C. Herold, Lakewood, Ohio
Application June 13, 1936, Serial No. 85,085
6 Claims. (Cl. 15—181)

1. In a rotary brush, two annular rings of bristles, a single plate member between said rings and engaging one side of each ring, two other plate members, one engaging the other side of each ring, and means for clampingly securing said two other plate members against each ring re-



spectively and against axial movement away from said first named plate member.

2,167,950
METHOD AND APPARATUS FOR ELECTRICAL EXPLORATION OF SUBSURFACE
John Jay Jakosky, Los Angeles, Calif.
Application June 1, 1937, Serial No. 145,795
7 Claims. (Cl. 175—182)



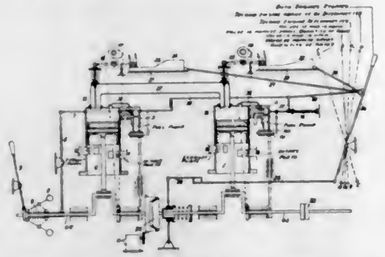
1. The method of determining the geologic nature and characteristics of the subsurface, which comprises: passing an electric current through the earth between two spaced energizing electrodes electrically connected to the earth and spaced from one another a known distance along the earth's surface, to create a potential difference between two spaced points on the earth's surface adjacent one of said electrodes and separated from one another by a distance less than one-fifth of said known distance, at least one of said points being within a distance from said one electrode which is also less than one-fifth of said known distance; and measuring said current when the potential difference between said points has a known value.

7. In an apparatus for use in determining the geologic nature and characteristics of the subsurface, in which a conductor is used to carry an electric energizing current between a source of power and an energizing electrode in electrical contact with the earth, the combination of a coupling device comprising a transformer connected in series with said conductor and connected to a signalling device, and another coupling device connected across said source of power and in shunt with said conductor through a connection to the earth adjacent said source of power and connected to another signalling device, whereby signals may be transmitted over said conductor between said signalling devices.

2,167,951
OPERATION OF INTERNAL COMBUSTION ENGINES
Hermann Jänicke, Lochham, near Munich, Germany
Application September 10, 1937, Serial No. 163,235
In Germany September 16, 1936
12 Claims. (Cl. 60—16)

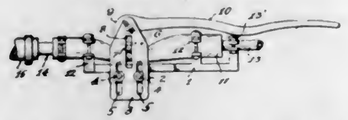
1. The method of operating an internal combustion engine which as a rule is required to start under load, which comprises feeding to the working space of this first engine, for the purpose of raising its turning moment, compressed gases of

combustion withdrawn from the working space of a second internal combustion engine running at higher speed and which as a rule during such withdrawal does not perform any mechanical work, feeding fuel to the working spaces of said first engine and coupling the two engines, after they have attained a sufficiently high speed, with the device to be driven by them jointly and now operating them independently of each other.



6. In a device of the kind described in combination, two internal combustion engines, a device to be driven by and directly coupled with the first of said engines, means for withdrawing from the second engine compressed gases of combustion and for feeding said gases to said first engine, means for simultaneously feeding fuel to said first engine and means for arbitrarily coupling also said second engine with the device to be driven.

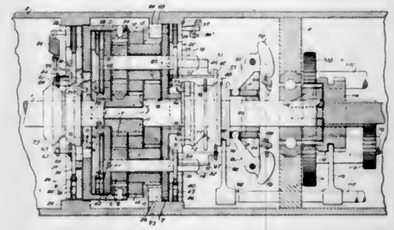
2,167,952
VALVE
Leo C. Jordan, Peoria, Ill.
Application June 10, 1937, Serial No. 147,504
3 Claims. (Cl. 251—5)



1. In a sand blast valve, in combination, a body or carrier for receiving a hose, a hose section, clamping means near opposite extremities of the body engaging about the end of the hose section, clamping said ends in a lateral direction, a nipple extending into an end of the hose, means for securing said nipple in said hose comprising a clamp engaging about the same for applying pressure laterally thereof, supporting means carried by the body between the positions of the two first named clamping means, the same being adjustable on said body in a line substantially perpendicular to the longitudinal line of the hose section, means to secure the supporting means in various positions of adjustment with respect to the body, and a member rotatable about an axis being movable relative to the body upon adjustment of said supporting means.

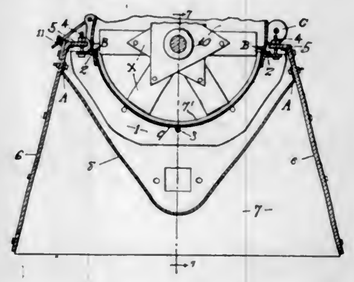
2,167,953
TRANSMISSION MECHANISM
Herménégilde Lafleche, Casselman, Ontario, Canada
Application July 27, 1937, Serial No. 155,866
18 Claims. (Cl. 74—260)

1. In an automatic transmission, having a driving shaft, a driven shaft, a gear on the driving shaft and a gear on the driven shaft, a planetary gear assembly meshing with both said gears and revolvable in a direction opposite to the direction of rotation of the driving shaft, a second gear on the driving shaft, an annular gear, planet gears meshing with said second gear and annular gear, said annular gear being revolvable in direction opposite to the direction



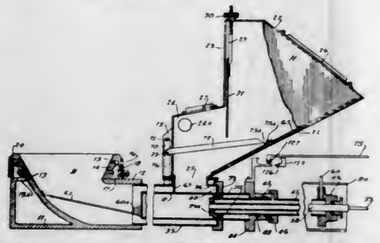
of rotation of the driving shaft, means for establishing driving connections between said shafts at variable speed ratios comprising successively actuated means for stopping revolution of the gear assembly, stopping revolution of the annular gear, and clutching said annular gear to the gear assembly.

2,167,954
BOLTING MEANS FOR GRINDING MACHINES
Henry John Mankoff, Wichita, Kans.
Application July 10, 1937, Serial No. 152,964
1 Claim. (Cl. 83—11)



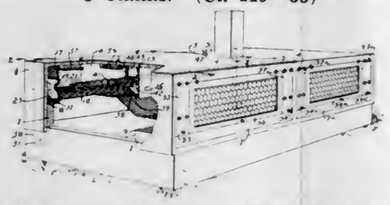
A structure of the character described comprising a casing having rigid end members, side members connected with the end members, arcuate, inwardly extending flanges formed on the end members, the ends of said flanges terminating adjacent the upper edges of the end members, said side members having inturned horizontal flanges, a hood for said casing pivotally connected with one horizontal flange and adapted to close the upper end of said casing, means for locking said hood in closed position, a frame device arranged in said casing and comprising semi-circular end members rigidly connected in spaced relation by angle bars at their upper ends, the upper edges of the semi-circular members formed upon an arc corresponding to the arc of the end flanges and adapted to engage therewith, a sheet of wire gauzing arranged in said casing with two opposite edges engaging beneath the end flanges, bolts carried by the said flanges and engaging the angle bars for rigidly binding the edges of the gauze between the end flanges and the arcuate upper edges of the frame ends, the opposite edges of the gauze extending above the frame bars and bent thereover, said hood when in its closed position adapted to bind the free edges of the gauze upon the angle bars.

2,167,955
STOKER
George Ross McGee, Sarnia Township, Ontario, Canada
Application February 19, 1937, Serial No. 126,560
1 Claim. (Cl. 110—45)



In an underfeed stoker, the combination of a retort, a fuel hopper having a bottom inclined downwardly toward said retort, and a vertical wall on its side which is adjacent to said retort, said bottom having a discharge opening adjacent the lower end thereof, an agitating member slidably mounted above said bottom, a duct operatively connected between said opening and said retort, a ram in said duct for feeding fuel into said retort, means for actuating said ram, a lever pivotally mounted adjacent said wall to oscillate in a vertical plane toward and away from said hopper, means operatively connecting said lever to said ram to oscillate said lever, and a connection pivotally connected between said lever and said agitator, said connection passing through said wall and lying substantially entirely within said hopper whereby the movement of said connection in a vertical plane operates to agitate the fuel in said hopper.

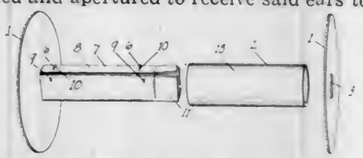
2,167,956
BROODER
Richard R. Morrill, San Jose, Calif.
Application August 5, 1936, Serial No. 94,379
3 Claims. (Cl. 119—33)



1. A brooder comprising, a housing having a baffle depending from the top thereof and extending from side to side thereof intermediate its depth, a floor structure slidably mounted in said housing to pass beneath said baffle and having upper and lower ramp connected floor levels, the baffle being over the lower floor level, a normally closed opening in said housing through which the floor structure may be moved, and air heating and circulating devices associated with the interior of the housing above the upper floor level.

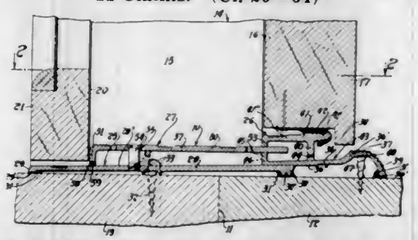
2,167,957
SPOOL
Louis E. Nykamp, Grand Rapids, Mich., assignor to Grand Rapids Fibre Cord Company, Grand Rapids, Mich.
Application April 18, 1938, Serial No. 202,638
7 Claims. (Cl. 242—119)

1. In a reel, the combination of a pair of cardboard heads with central square apertures, a barrel made up of a pair of square sheet metal plates disposed parallel to said heads and centrally apertured to form bearings and having ears projecting from their edges and an inner core of square cross section formed of cardboard wrapped to overlapping relation around said plates and stapled and apertured to receive said ears to hold



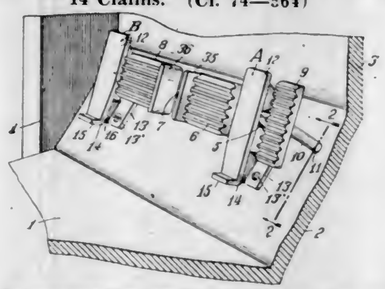
said plates in position, said inner core being fitted in the apertures of said heads and having flaps extending from the end edges thereof and lying on the outer faces of said heads and stapled thereto, and an outer cylindrical core fitted around and upported by said inner core and fitted between and bracing said heads.

2,167,958
THRESHOLD
Philip R. Oftedal and Donald G. Kingsley, Chicago, Ill.
Application July 7, 1937, Serial No. 152,388
11 Claims. (Cl. 20—64)



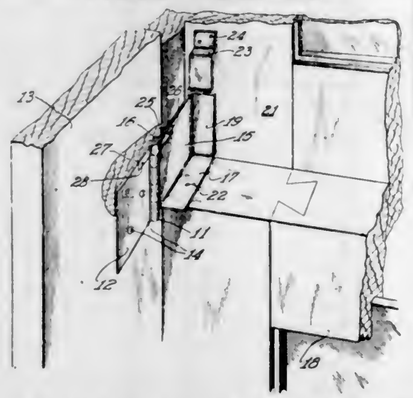
10. In a threshold, the combination of an inner member defining the inner edge of the threshold, an outer member defining the outer edge of the threshold, and an intermediate member formed to define an outer stop for an outer door, said three members being formed to cooperate in providing a gradually stepped tread surface, and being relatively adjustable, in a generally horizontal direction, each relatively to the others, to provide varying dimensions between said inner and outer edges and between said inner edge and said outer stop.

2,167,959
AUTOMOBILE DRIVER'S INSTANT FOOT CONTROL
Valerius Pomernacki, Chicago, Ill.
Application August 29, 1938, Serial No. 227,303
14 Claims. (Cl. 74—564)



1. In combination with the brake and accelerator pedals of an automobile, and the levers supporting said pedals and extending downward through openings in the foot-board of the automobile, both of the pedals being positioned at substantially the same inclination and height above the foot-board and adapted to be bodily depressed while remaining in the same inclination, a stationary foot-rest mounted on the foot-board between the pedals, the upper foot-supporting surface of the rest being closely adjacent and at least as high as the upper foot-engaging surface of the brake pedal when in its uppermost position.

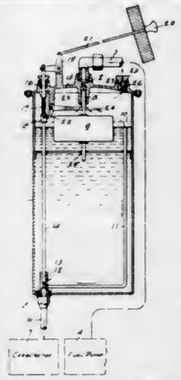
2,167,960
DOUBLE SASH LOCK
Roman G. Reader, Chicago, Ill.
Application June 26, 1937, Serial No. 150,567
2 Claims. (Cl. 292—210)



1. A locking mechanism for windows, comprising a hinge member fastened to the window stop, a stop member pivotally mounted on said hinge member, said stop member having a flattened portion bent at a right angle thereto and adapted to rest upon the upper surface of the lower window sash to prevent upward movement thereof, a second flattened portion bent at a right angle to said stop member and said first flattened portion and adapted to rest against the upper window sash, a locking member mounted on said stop member to prevent laterial movement of said stop member, and a catch member mounted on the upper window sash adjacent said stop member adapted to engage said second flattened portion to limit downward movement of said upper window sash.

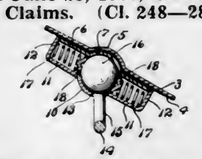
2,167,961
FEED REGULATOR FOR CARBURETORS
Fred J. Sachs, San Mateo, Calif., assignor to Dolly Purdy, San Mateo, Calif.
Application October 17, 1936, Serial No. 106,143
9 Claims. (Cl. 158—46.5)

1. In combination, a carburetor, a fuel pump, a tank having an intake directly connected to the pump and an outlet directly connected to the carburetor for normally feeding the same, control means for the outlet adapted to build up a reserve fuel supply in the tank, means for automatically shutting off the feed from the tank to the carburetor when the reserve fuel supply sinks below a predetermined level, manually controlled means for releasing the reserve fuel supply for feeding the carburetor, automatically operating means for holding the latter means in fuel releasing position and automatically operating means for returning said means to non-releasing position



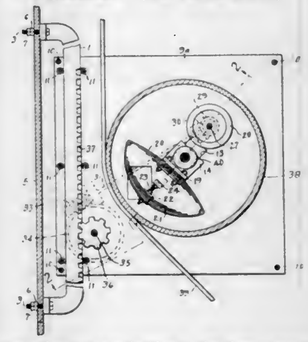
when the level of the fuel in the tank again rises above the predetermined fuel level.

2,167,962
VISOR BRACKET CONSTRUCTION
Milo Sovis, Grand Haven, Mich., assignor to Peerless Novelty Company, Grand Haven, Mich., a corporation of Michigan
Application June 28, 1937, Serial No. 150,672
3 Claims. (Cl. 248—288)



2. In a device of the class described, an inner plate, an outer plate opposed to said inner plate, said outer plate having an opening therethrough, a ball mounted between said plates, a rod connected to said ball extending through said opening in the outer plate, said outer plate provided with troughs extending in opposite directions from said opening, and friction means in said troughs pressing against said ball, as and for the purposes specified.

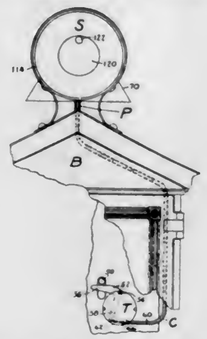
2,167,963
AUTOMATIC IDLER AND TAKE-UP
James A. Webb, Corpus Christi, Tex.
Application November 7, 1938, Serial No. 239,381
4 Claims. (Cl. 74—242.11)



1. A tension regulating device comprising a

casing, a track on which the casing is mounted to move, a pulley adjustably mounted on the casing, a friction wheel rotatable on the casing, means including a flexible driving member operating around the pulley and a yieldable member connected to the pulley and casing effective to frictionally connect the pulley and friction wheel in accordance with variations in the tension of said driving member and means driven by the friction wheel and operatively connected with the track for moving the casing on the track in accordance with the direction of rotation of the friction wheel.

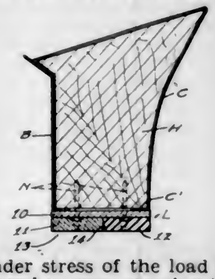
2,167,964
WARNING SIGNAL AND MECHANISM THEREFOR
Foster E. Weld, Newton Highlands, and Harry S. Smith, Needham, Mass., assignors to The Gamewell Company, Newton Upper Falls, Mass., a corporation of Massachusetts
Application October 18, 1935, Serial No. 45,608
5 Claims. (Cl. 177—373)



1. In combination with a conventional alarm box including manually operable means accessible to the public for transmitting a signal, an enclosed noise-producing mechanism mounted externally of the box and in proximity thereto, said noise-producing mechanism embracing a metal diaphragm and means for vibrating said diaphragm to produce a noise of substantial intensity, connections between the manually operable means and the noise-producing mechanism to operate the latter whenever the box is operated to transmit a signal and means for completely enclosing said connections to render them inaccessible and to prevent disabling of the noise-producing mechanism.

2,167,965
TOP LIFT FOR COVERED HEELS
William Wood, Jr., Vancouver, British Columbia, Canada
Application October 20, 1937, Serial No. 170,063
13 Claims. (Cl. 36—35)

1. In combination with a covered heel the covering of which at least in part extends under the bottom face of the heel, a composite tread member comprising a member of leather and a member of rubber composition of a total area substantially equal to that of the bottom face of said heel, a rigid member of fibrous material engaging said covering and lying between the same and said tread member, and engaged by both of said leather and rubber composition members, and means securing said tread member and said rigid member to said heel, said rigid member being compressed to such a density as to have such rigidity that it will not substantially bend toward

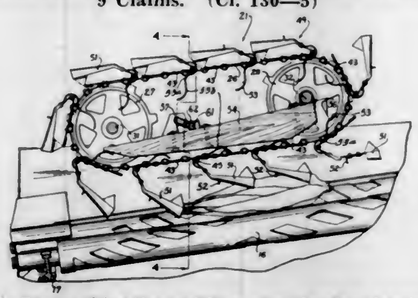


said heel under stress of the load imposed upon said tread member upon securing the same.

2,167,966
AROMATIC MERCURY SALTS OF ACETYLAMINO SUBSTITUTED ACIDS
Carl N. Andersen, Wellesley Hills, Mass., assignor to Lever Brothers Company, a corporation of Maine
No Drawing. Application November 17, 1936, Serial No. 111,255
13 Claims. (Cl. 260—434)

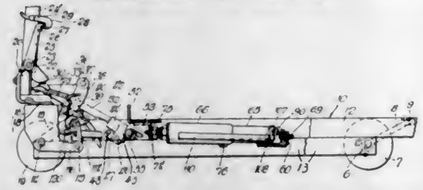
1. An organic mercury compound having the general formula $(RHg)_x.R_1$, in which R represents an aromatic structure to a carbon atom of which the mercury is directly attached and in which none of the carbon atoms has direct linkage with any element other than hydrogen, carbon and mercury; in which R_1 represents an acetylamino substituted carboxylic acid radical that is linked to the RHg group through replacement of carboxyl hydrogen; and in which x represents the number of RHg groups in the compound and is an integer of at least one and not more than the number of carboxyl groups in the radical R_1.

2,167,967
CORN HUSKER
Ralph L. Anderson, Moline, and Floyd R. Martin, East Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application March 22, 1937, Serial No. 132,288
9 Claims. (Cl. 130—5)



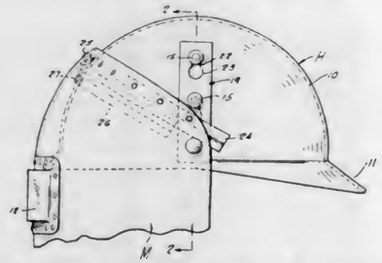
1. In combination with a corn husker having a pair of spaced frame members and a plurality of husking rolls mounted between said frame members, an ear feeding mechanism disposed above said husking rolls comprising a rear transverse shaft, a front transverse shaft, said shafts being disposed in spaced parallel relation in bearing members fixed on said frame members for supporting said shafts, a sprocket mounted adjacent each end of each shaft within said frame members, the sprockets on one shaft being disposed in longitudinal alignment with those on the other shaft, an endless chain trained over each pair of aligned sprockets, a plurality of hinge pins disposed transversely between said chains and equidistantly spaced therealong, ear presser plates mounted on said hinge pins in parallel endless rows, a presser bar disposed above the lower run of each row of presser plates, said presser bars being pivotally mounted at one end on said rear transverse shaft, a transverse bail mounted on said frame engaging said presser bars at a point spaced from said one end and adapted to adjust the free end of said bars toward or away from said presser plates, and a resilient finger on each presser plate engaging the under side of said presser bar to yieldingly urge said presser plates downwardly toward said husking rolls.

2,167,968
LIFT TRUCK
Arthur M. Barrett, Winnetka, Ill., assignor to Barrett-Cravens Company, Chicago, Ill., a corporation of Illinois
Application July 6, 1936, Serial No. 89,036
15 Claims. (Cl. 254—10)



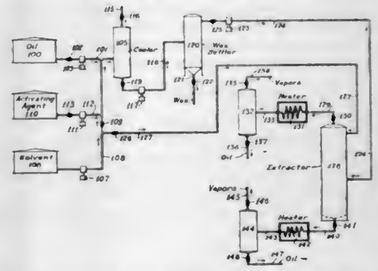
1. In a lift truck of the class described having a lower frame including, a cross head at one end thereof, an upper frame, means connecting said frames for upward and forward movement of said upper frame with respect to said lower frame, a steering handle pivotally carried on the cross head, ratchet and pawl means controlled by oscillation of said handle for lifting said upper frame into raised position above said lower frame, hydraulic check means for holding said upper frame in raised position, and toggle actuated release means operable during the initial part of its movement to release said pawl means from said ratchet and subsequently operable to release said hydraulic check means while maintaining said pawl in released position.

2,167,969
COMBINATION WELDING HELMET AND SAFETY HAT
Frederick M. Bowers, Chester, Pa.
Application October 1, 1937, Serial No. 166,800
9 Claims. (Cl. 2—8)



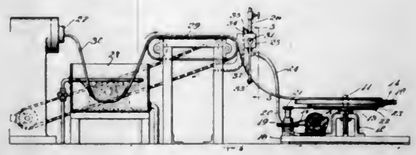
1. In combination, a safety hat comprising a headgear adapted to fit snugly over the head of a wearer, and a hard outer shell spaced therefrom, a pair of spaced rivets on each side of said outer shell, each of said rivets having an enlarged head spaced from the outer surface of the shell, and a welding helmet comprising a mask and extensions at each side of the mask pivotally connected thereto, each of said extensions having elongated openings with enlarged portions with the spacings between the elongated openings the same as between the spacings of the rivets on the shell whereby the heads of said rivets are adapted to pass through the enlargements of said openings to secure the extensions to the shell.

2,167,970
PROCESS FOR SEPARATION OF WAX FROM OIL
Ulric B. Bray, Palos Verdes Estates, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
Application December 18, 1933, Serial No. 702,985
2 Claims. (Cl. 196—18)



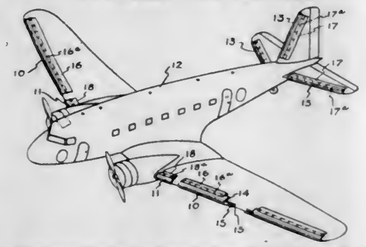
1. The process for the separation of wax from a wax-bearing oil which comprises commingling said oil with a selective solvent and cyclopropylene, cooling the diluted oil to a temperature sufficiently low to precipitate wax and removing the wax from the cooled oil.

2,167,971
APPARATUS FOR COILING STRIP MATERIAL
Charles C. Cadden, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application February 26, 1936, Serial No. 65,829
4 Claims. (Cl. 242—83)



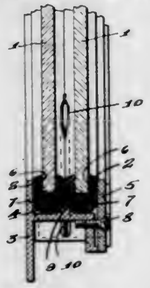
4. Apparatus for handling low tensile strength flexible strip material, said apparatus comprising means for progressively forming the strip material, means for winding the strip material as it is formed, and means for coordinating the speeds of the forming means and the winding means, the coordinating means comprising a motor for driving the winding means and a control element therefor positioned to support at least partially a reach of the strip material between the forming means and the winding means and movable in response to changes in the length of the material in said reach to control the speed of the motor.

2,167,972
PROTECTIVE SURFACE
Richard A. Crawford, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 19, 1937, Serial No. 159,842
11 Claims. (Cl. 244—134)



1. Ice-removing apparatus for aircraft including a covering comprising a layer of extensible dielectric material adapted to be extensively stretched in the operation of said apparatus, and an extensible layer of material at the surface of the dielectric material of relatively great conductivity adapted to be stretched therewith and to be electrically conductive in a condition of stretch.

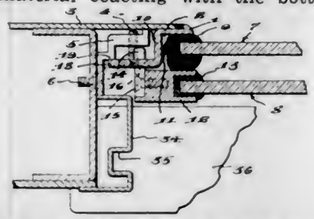
2,167,973
WINDOW CONSTRUCTION
Oliver M. Edwards, Syracuse, N. Y., assignor to The O. M. Edwards Company Inc., Syracuse, N. Y., a corporation of New York
Application March 17, 1937, Serial No. 131,428
6 Claims. (Cl. 189—64)



1. In a window construction, a sash including a glass pane and a surrounding marginal tirelike frame of elastic and compressible material, said frame being formed with a groove for receiving the margin of the glass pane, the frame being located for the most part beyond the edge of the glass pane, and a circumferential outside frame formed with a channel for receiving the tirelike frame, the outside frame including means for compressing the tirelike frame in the channel and against the margin of the glass pane, the portion of the tirelike frame in the channel being of different cross sectional outline from the channel, whereby it distorts; when compressed, in the channel.

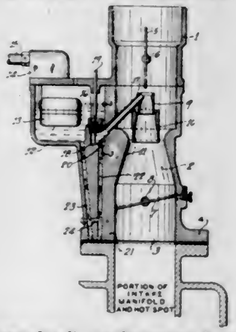
2,167,974
WINDOW CONSTRUCTION
Oliver M. Edwards, Syracuse, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York
Application March 4, 1938, Serial No. 193,971
2 Claims. (Cl. 189—64)

2. The combination with a window frame having a window opening in the form of an angular channel formed by a bottom wall and one side wall; of a closure including a panel and a circumferential tirelike member of compressible resilient material coacting with the bottom and



pressing at one side against the side wall of the channel, a second closure located outside of said channel and including a panel and a circumferential frame pressing against the opposite side of the tirelike member, and means for clamping the second closure against said tirelike member.

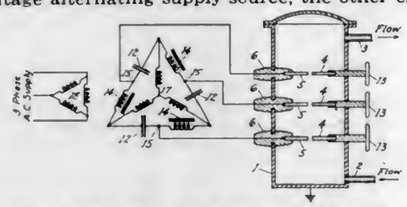
2,167,975
CARBURETOR STRUCTURE
George R. Ericson, St. Louis, Mo.
Application August 13, 1936, Serial No. 95,782
16 Claims. (Cl. 261—15)



1. In a downdraft carburetor for an internal combustion engine, a fuel chamber, a barrel forming a mixture conduit and including structure connecting said chamber with an associated engine manifold, a suction operated fuel nozzle leading from said fuel chamber into said barrel, said chamber having a portion of relatively small cross-sectional area compared to the main part of the chamber and extending downwardly along said barrel towards said attached manifold, whereby boiling of the fuel will be initiated in said extension of the fuel chamber before it can occur in said fuel nozzle.

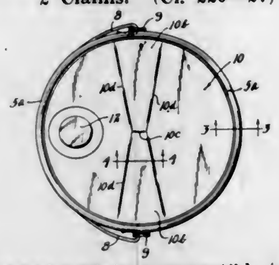
2,167,976
ELECTRIC ARC APPARATUS FOR PRODUCING CHEMICAL REACTIONS
Victor F. Hanson, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 2, 1936, Serial No. 57,170
2 Claims. (Cl. 204—31)

1. In an arcing reaction chamber for producing chemical reactions, a polyphase arcing unit consisting of a plurality of pairs of electrodes mounted at such a level as to be submerged in a carbonaceous liquid, one of each pair of which is connected to a common point of inductive and capacitive reactances in resonance at the applied alternating current frequency, which reactances are connected in series across a constant voltage alternating supply source, the other elec-



trodes of each pair being connected together to form a return circuit for the current of the various arcs.

2,167,977
SEALED CONTAINER CONVERTIBLE TO PAIL
Howard G. Hornibrook, Minneapolis, Minn.
Application May 6, 1937, Serial No. 141,075
2 Claims. (Cl. 220—27)



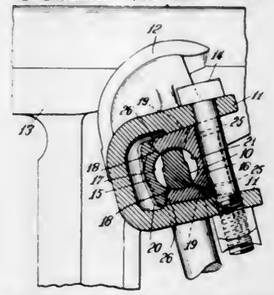
1. A sealed container convertible into an open pail, having in combination an open topped body provided with a bead at its upper edge, a closed cover having its entire marginal edge rolled about said bead and so secured thereto, said cover having scored sections extending thereacross from a central portion thereof and terminating short of said rolled marginal portion and having a transverse, relatively short score line connecting the score lines defining said scored sections at the central portion of said cover through which an implement such as a screw driver may be thrust to separate the inner ends of said scored sections, said scored sections flaring in width from said central transverse score line to the edges of the pail to facilitate removal of said cover upon tearing of said scored section therefrom.

2,167,978
INSECT TRAP
Balthasar Jennerich, Cologne, Germany
Application July 30, 1934, Serial No. 737,493
In Germany August 2, 1933
5 Claims. (Cl. 43—121)



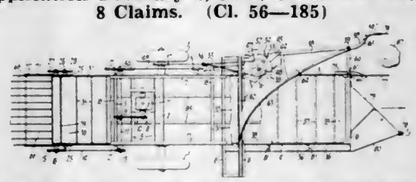
2. An insect trap for use of paralyzing insect powder, comprising an upwardly inclined side wall adapted to permit the insects to pass over same, an open trough-like section for the reception and retention of a paralyzing powder, a smoothly inclined surface connecting the top of said upwardly inclined side wall with said section, and a central catching chamber having steep walls, said catching chamber being surrounded by said section and designed to receive a bait.

2,167,979
BRAKE HANGER RETAINER
Malcolm S. Johnson, Chicago, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application January 26, 1938, Serial No. 186,922
5 Claims. (Cl. 188—209)



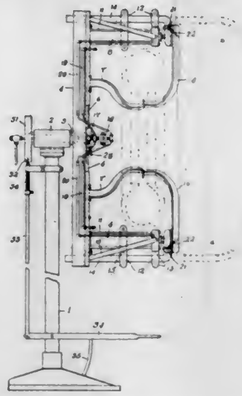
1. A brake hanger retainer comprising a pair of complemental members adapted to pendently hold a brake hanger therebetween and to fit into the hanger receiving socket provided on a truck frame, both members on their opposing longitudinal faces being each provided with an arcuate groove and with projecting portions, the projecting portions of one member being offset relative to those of the other member and effecting intermeshing relation with each other, said projecting portions being adapted to extend beyond the plane of the normal contacting surfaces of the members whereby a juncture line disposed to opposite sides of the plane of the longitudinal axis of the hanger receiving channel is provided.

2,167,980
HARVESTER
Thomas C. Lloyd-Jones and Samuel E. Kinnear, Modesto, Calif.
Application February 2, 1938, Serial No. 188,339
8 Claims. (Cl. 56—185)



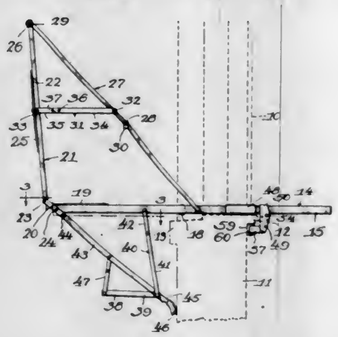
1. A harvester for harvesting crops of the character described comprising a frame, ground engaging wheels mounting said frame for movement of the frame normally in one direction, a cutting device on the frame positioned for severing the stalks of the plants to be harvested, plant engaging means on the frame arranged and adapted to engage and to bend the plants to be cut in a direction laterally of the normal direction of movement of the frame in advance of said cutting device and to retain the plants in bended position during severing of the stalks thereof by the cutting device, means on the frame positioned to receive seeds dropped from the plants upon bending thereof by said plant engaging means, conveyor means on the frame positioned to receive the severed plants and to support said plants and to carry said plants away from said cutting device, and means for positively holding said severed plants in positions extending transversely of the direction of movement of the frame during movement of the severed plants away from said cutting device.

2,167,981
TIRE SPREADER
Oscar C. Kalbfleisch, Mansfield, Ohio
Application June 10, 1937, Serial No. 147,522
5 Claims. (Cl. 154—9)



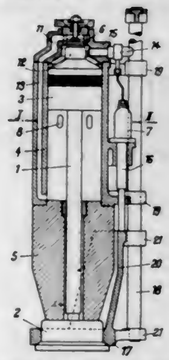
1. A tire spreader comprising a cylinder, a piston and piston rod slidable therein, a plurality of apertured braces extending from said cylinder, and an L bar having one arm slidable through the apertures of said braces and the other arm located at right angles to said piston rod and secured thereto, to maintain the force directly in line with the object upon which the force is to be exerted.

2,167,982
MULTISTAGE WINDOW CHAIR
Frank J. Kerber, Chicago, Ill.
Application November 3, 1937, Serial No. 172,643
5 Claims. (Cl. 304—27)



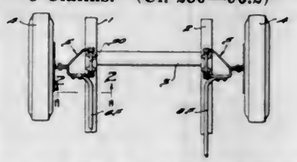
1. A window chair including a horizontal frame, means to secure the frame to a window casement so that a considerable portion of the frame protrudes outside the sill of the window, a platform on the latter portion, a foldable guard structure on said portion and including a pivoted outer frame inclined backwardly, a foldable structure between the guard structure and frame adapted to permit the former to fold toward the latter, a foldable structure beneath the latter and including a platform hung therefrom forwardly of the first platform and braces inclined forwardly from the rear end of the frame to engage the outside of a wall, and spring-held clamping means adjustably mounted on the inner portion of the frame to engage the inside of the wall to clamp the device thereto.

2,167,983
RAMMING DEVICE ON THE DIESEL PRINCIPLE
Max Kiecksee, Berlin-Wilmersdorf, Germany, assignor to Meco-Brennkraft-Maschinen G. m. b. H., Frankfort-on-the-Main, Germany, a corporation of Germany
Application April 22, 1936, Serial No. 75,709
In Germany April 30, 1935
9 Claims. (Cl. 123—7)



1. In a two cycle Diesel motor operated pile driver or the like, a vertically reciprocable hollow tup, a unitary structure comprising a follower and a piston, a combustion space between the piston and the top of the tup, an inlet valve for said combustion space, a suction space between the piston and the bottom of the tup, a conduit between said suction space and said valve, air suction and gas exhaust ports communicable with the respective spaces, and means actuated by the relative movement of the tup and the piston to supply fuel to said combustion space.

2,167,984
INDIVIDUAL SUSPENSION
John W. Leighton, Port Huron, Mich.
Application September 30, 1936, Serial No. 103,236
5 Claims. (Cl. 280—96.2)



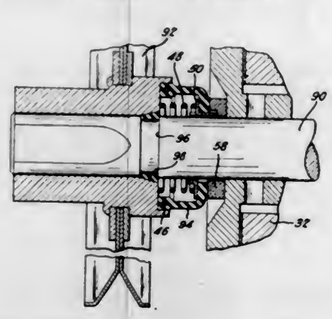
1. In an independent wheel suspension for a steering wheel, a vehicle frame, a wheel supporting member, upper and lower links pivoted to the frame at their inner ends, means connecting the wheel supporting member to the lower link for universal movement with respect thereto, a ball and socket connection between the wheel supporting member and the upper links, said connection including spaced partially spherical inner and outer members having a plurality of ball bearings between and in rolling engagement with the spherical surfaces thereof and a cage between the members for holding said balls in position relative to each other, and spring means associated with the upper link for supporting the vehicle.

2,167,985
VIBRATING PROPELLING DEVICE
Eugene Levay, New York, N. Y.
Application April 9, 1937, Serial No. 135,877
1 Claim. (Cl. 273—86)



In a racing toy, having a resilient plate with a system of passages and obstacles, including a start and a goal thereon, a plurality of racing units to be propelled through depending resilient members by which they are resting on said plate and through the transverse vibrations of said plate; a frame member secured around the periphery of said plate by which the same may rest on a support and be kept spaced apart from said support.

2,167,986
FLUID SEAL ASSEMBLY
Jean A. Lignian and Roland P. Koehring, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application February 7, 1938, Serial No. 189,128
7 Claims. (Cl. 286—11)



1. In combination with two members relatively rotatable with respect to one another, of a fluid sealing assembly comprising in combination, an annular resilient sealing part, two flange portions formed integral with said part, a circumferential spring associated with one of said flanges, a groove formed in one of said members, said spring carrying flange being dimensioned so as to snap into said groove for holding the part to the member, a sealing surface associated with the second of said members, a seal ring disposed between said sealing surface and the other flange of said sealing part, and a spring bearing against said other flange and a portion of the first mentioned member for expanding the resilient sealing part toward the second mentioned member.

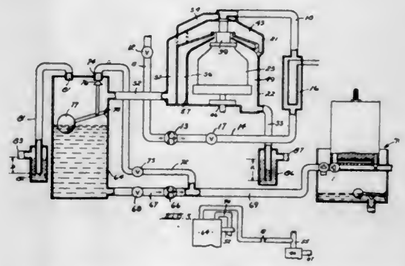
2,167,987
VIBRATOR
Arthur William Mall, Chicago, Ill.
Application June 10, 1937, Serial No. 147,559
4 Claims. (Cl. 259—1)

1. An apparatus for compacting plastic materials comprising a vibratory member having an unbalanced weight therein, a flexible driveshaft operatively connected to said unbalanced weight, a housing for said flexible shaft, a resilient member connecting said flexible shaft housing and



said vibratory member, a second flexible shaft, a housing at the upper end of said resilient member, a stub shaft connecting said flexible shafts and a flexible housing for said second flexible shaft.

2,167,988
SEPARATION APPARATUS
John Mann, Seneca Falls, N. Y., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y., a corporation of New York
Application November 22, 1937, Serial No. 175,869
4 Claims. (Cl. 233—21)

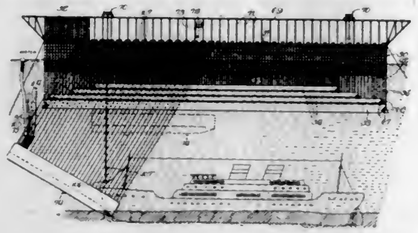


1. In a separator system, in combination, a centrifugal separator having discharges for oil and for water, a casing surrounding the centrifugal separator, said casing including an inlet for oil to be purified and separate compartments for receiving oil and water, a waster water outlet pipe communicating with the water compartment, means for sealing the waste water pipe, an oil discharge means communicating with the oil compartment of the casing, said means including separate outlets for air and oil, a sealed discharge for oil, and a water leg arranged in the air outlet.

2,167,989
SALVAGE DEVICE
Aime C. Messier, Chicago, Ill.
Application October 5, 1936, Serial No. 103,961
10 Claims. (Cl. 114—52)

1. A salvaging device comprising a pontoon ship having a well located at one end thereof, a scoop adapted to be positioned under one end

of the sunken ship suspended by cables from the opposite sides of said well, and means carried



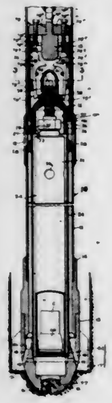
by said pontoon ship for suspending loops of cables beneath the other end of said sunken ship.

2,167,990
TYPEWRITER RIBBON
Samuel A. Neidich, Burlington, N. J., assignor, by mesne assignments, to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application February 28, 1936, Serial No. 66,240
6 Claims. (Cl. 197—172)



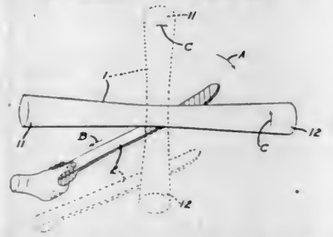
6. A typewriter ribbon of woven yarn at least the major portion of which consists of filaments having peripheral irregularity providing irregular interstices having large surfaces between contiguous filaments, the yarn being loaded with ink in said interstices.

2,167,991
SAND LINE CORE BARREL
Guy C. Oliver, Glendale, Calif.
Application May 16, 1938, Serial No. 208,213
8 Claims. (Cl. 255—72)



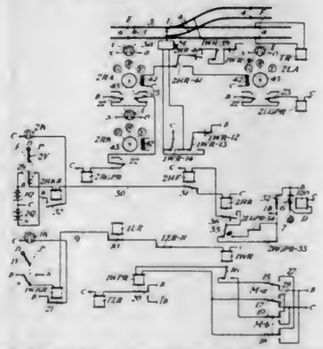
1. In a core barrel, a bit having a central bore, a cylindrical shell, means to secure said shell to said bit, an outer barrel mounted in said shell, a head member in said barrel, a stem adjustably mounted on said head member, said stem having a bearing thereon, a core barrel support on said bearing, an inner core barrel on said support and spaced from said outer barrel, said core barrel support having a plurality of apertures affording communication between the interior of said support and the exterior of said inner barrel, a core catcher assembly on said inner barrel, said outer barrel having a tapered seat portion adjacent the upper end thereof and said head member including a tapered surface to engage said seat portion, and releasable catch means on said outer barrel coacting with means on said head to releasably connect said head and said outer barrel.

2,167,992
BALANCING STICKS
Ole Olsen, Seattle, Wash.
Application September 21, 1938, Serial No. 230,953
4 Claims. (Cl. 46—47)



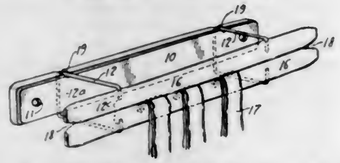
1. A game or toy comprising a striker stick and a balancing stick, the balancing stick being substantially circular in cross-section, and of smaller diameter at its center than at its ends, whereby when manipulated by the striker stick it may be twirled end for end in a horizontal plane, and rotated about its own axis, and the striker stick being substantially flat and tacky on its upper surface, and flexible.

2,167,993
RAILWAY TRAFFIC CONTROLLING APPARATUS
John M. Pelikan, Greentree, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application March 20, 1937, Serial No. 132,067
6 Claims. (Cl. 246—3)



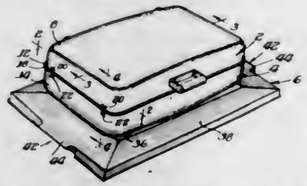
1. In combination, an electrically controllable device operable to a first and a second position, a polarized control relay selectively responsive to current of normal and reverse polarities for closing its polar contacts in normal and reverse positions respectively, means controlled by said polarized control relay for operating said electrically controllable device to its first or its second position according as the polar contacts of said polarized control relay are closed in the normal or reverse position respectively, an indication relay, circuits controlled by said polarized control relay and by said electrically controllable device for energizing said indication relay only if said electrically controllable device is in a position corresponding to the closed position of the polar contacts of said polarized control relay, a repeater relay, a circuit controlled by a front contact of said indication relay for energizing said repeater relay by constant current, a second circuit controlled by a back contact of said indication relay for energizing said repeater relay by periodically interrupted current, manually controllable circuits controlled by a front contact of said repeater relay for energizing said polarized control relay by current of normal and reverse polarities, and indication means controlled over said manually controllable circuits by said repeater relay.

2,167,994
NECKTIE RACK
George L. Pilliod and Alfred O. Judson, Swanton, Ohio, assignors to The Pilliod Cabinet Company, Swanton, Ohio, a corporation of Ohio
Application June 23, 1938, Serial No. 215,367
7 Claims. (Cl. 211—89)



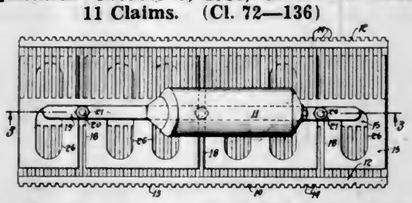
1. In a rack of the class described, a back member, a pair of laterally opposed upper and lower article gripping bars, one or more U-shaped members carried by said back member with their legs projecting forward therefrom in vertically spaced relation, and engaging and carrying at their outer ends the respective upper and lower bars and normally retaining the bars in article gripping relation.

2,167,995
ELECTRIC APPLIANCE
Edward S. Preston, Hinsdale, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application May 20, 1938, Serial No. 209,075
11 Claims. (Cl. 53—5)



1. A heating appliance comprising a shell and a heated member, said shell having slots therein and said member having ribs projecting into said slots for securing the heated member to the shell.

2,167,996
TROWEL
Clement E. Pritz, Chicago, Ill.
Application October 3, 1938, Serial No. 232,946
11 Claims. (Cl. 72—136)



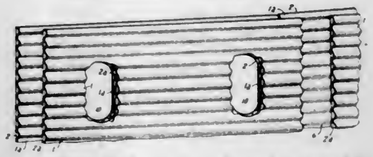
11. A blade for a trowel, said blade having a working face and a top face, opposed marginal parts of said blade being spaced above said top face and connected to the body of the blade by means of portions having longitudinally spaced openings therein.

2,167,997
PREPARATION OF METAL PERCARBONATES
Joseph S. Reichert, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application February 16, 1938, Serial No. 190,834
19 Claims. (Cl. 23—62)

1. A method for preparing alkali metal percarbonates comprising reacting an alkali metal peroxide with a finely divided aqueous hydrogen peroxide solution and subjecting the resulting reaction product to the action of carbon dioxide.

19. The new addition compound of sodium peroxide, hydrogen peroxide and water in which said chemical compounds are present substantially in the molecular ratio 1:0.5:1.

2,167,998
PLASTER BASE
James Reid, New York, N. Y.
Application August 20, 1937, Serial No. 160,133
19 Claims. (Cl. 72—116)

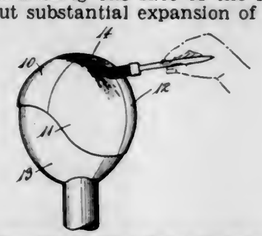


14. A corrugated plaster board assembly, including superposed multi-ply strata each including corrugated sheets and flat liner sheets united one to the other, the superposed strata being laterally offset relative to each other whereby the lateral multi-ply margin of each strata will project in overlapping relation beyond the other in reverse directions for overlapping engagement with similar projecting multi-ply margins of neighboring board assemblies.

2,167,999
METHOD OF MAKING A SPONGE RUBBER ARTICLE
Ralph E. Riley, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application May 1, 1936, Serial No. 77,333
3 Claims. (Cl. 18—53)

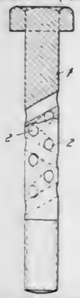
1. The method of making a contoured article which comprises fitting together portions of un-

vulcanized sheet sponge rubber material, toughening the article locally against blowing and strengthening the seams against separation by partially vulcanizing one face of the fitted portions without substantial expansion of the blow-



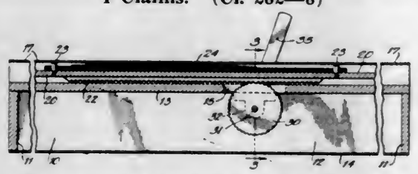
ing agent therein, placing the article over a contoured form with its partially vulcanized surface in contact with the form, and then vulcanizing the article with expansion of the blowing agent.

2,168,000
SCREW OR SCREW BOLT
Paul Schaurte, Munich, Germany, assignor to the firm: Bauer & Schaurte, Rheinische Schrauben- und Mutternfabrik A.-G., Neuss-on-the-Rhine, Germany
Application October 23, 1936, Serial No. 107,113
In Germany October 29, 1935
4 Claims. (Cl. 85—1)



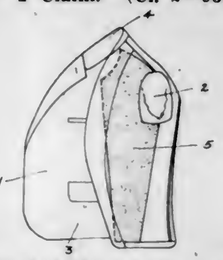
4. A bolt having flexibility in tension, comprising a metallic member having a head and a shank of continuous external shape, said shank being provided with a plurality of transverse apertures extending through said shank diagonally, and said apertures being spaced from each other longitudinally of said shank and extending transversely to each other whereby the effective cross sectional area in the region of said apertures is reduced and the flexibility of the bolt in tension is increased without diminishing the external size of the bolt.

2,168,001
ACCOUNTS REGISTER
Arthur C. Schroeder, Chicago Heights, Ill.
Application October 3, 1938, Serial No. 232,945
4 Claims. (Cl. 282—8)



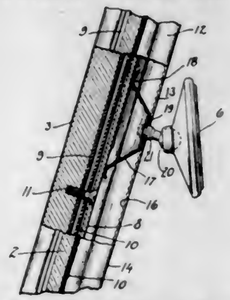
1. An accounts register comprising a cabinet, a shield mounted thereon, openings between said shield and said cabinet at the ends thereof, a tray slidable beneath said shield through said openings and above said cabinet, a pad mounted upon said tray consisting of a series of severable transaction slips and a master sheet, an opening in said shield to expose and permit the removal of a single severable transaction slip, manual means to advance said tray to expose successive transaction slips beneath said opening and means to prevent the retraction of said tray.

2,168,002
HAIR INNER LINING
Maurice Jacob Sheerr, Philadelphia, Pa.
Application March 19, 1936, Serial No. 69,666
1 Claim. (Cl. 2—93)



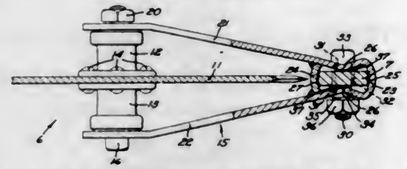
An article of clothing, a coat, said coat comprising sleeves, collar, skirt and a coat front structure, said coat front structure consisting of a chest piece comprising a hair inner lining consisting of a warp, in which a majority of softly spun threads of wool are placed on one side of the warp and are adapted to be napped to create thickness, and a filling of combined goat hair, horse hair and camel hair.

2,168,003
REAR VIEW MIRROR
Porter E. Stone, Detroit, Mich.
Application December 14, 1936, Serial No. 115,718
4 Claims. (Cl. 88—93)
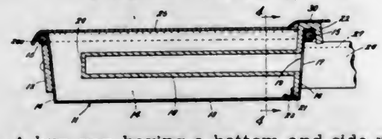


1. In an automotive vehicle having a V windshield, a track positioned vertically aong the apex of the said V windshield, a slide member slidable along the said track, a fixed cover member for the slide including a vertical slot for concealing the said track member, a mirror, means passing through the said slot for securing the said mirror upon the said slide member, and cooperating clutch members mounted within, and concealed by, the said cover plate, one clutch member carried by the slide and the other by the cover plate, for holding the mirror in any of its vertically adjusted positions, said clutch members being releasable to permit adjustment of said mirror.

2,168,004
COLTER
Carl G. Strandlund, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application August 1, 1938, Serial No. 222,397
11 Claims. (Cl. 97—209)



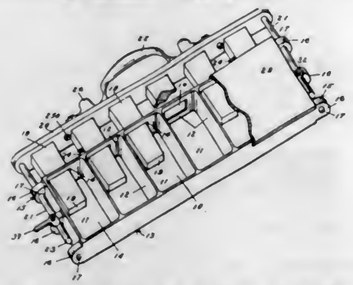
1. A colter support comprising a shank, a yoke comprising a pair of spaced arms having inwardly directed fulcrums adjacent one end of the yoke, said fulcrums and said shank having aligned holes therein, means for connecting the shank between said arms comprising a bolt disposed in said holes and adapted to draw said fulcrums together toward the sides of said shank, meanwhile permitting limited lateral swinging of said yoke relative to said shank, and means for restraining swinging of said yoke about the axis of said bolt.

2,168,005
BUN PAN
John E. Strietelmeier, Cincinnati, Ohio, assignor to Bar-B-Buns, Inc., Cincinnati, Ohio, a corporation of Ohio
Application September 27, 1937, Serial No. 165,802
6 Claims. (Cl. 53—6)



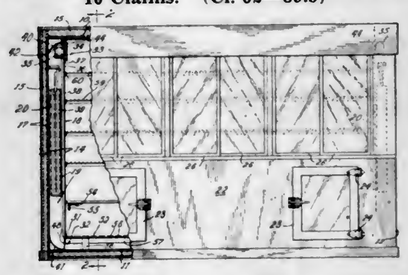
1. A bun pan having a bottom and side walls, a core removably positioned centrally of the pan interior and extending from one side wall and terminating adjacent an opposite side wall, a slidable cover plate for the pan and means associated with the cover and the pan for rigidly holding said core within the pan.

2,168,006
BUN PAN
John E. Strietelmeier, Cincinnati, Ohio, assignor to Bar-B-Buns, Inc., Cincinnati, Ohio, a corporation of Ohio
Application August 4, 1938, Serial No. 223,067
8 Claims. (Cl. 53—6)



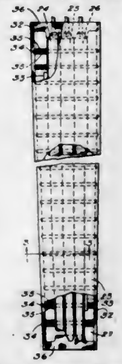
7. A bun pan having a bottom and side walls, one side wall having an aperture formed therethrough, a tapered core, means located exteriorly of the pan for removably positioning the core in the aperture and centrally of the pan interior.

2,168,007
REFRIGERATED CABINET
Sven V. Swanson, Forest Park, Ill., assignor to Refrigeration Appliances, Inc., Chicago, Ill., a corporation of Illinois
Application July 15, 1938, Serial No. 219,347
10 Claims. (Cl. 62—89.5)



1. An enclosure of the class described having top, bottom and upright walls forming a cooling compartment, one of said upright walls having therein an air space separated from the compartment and with upper and lower openings thereto from the top and bottom respectively of the compartment, a blower operable to circulate air from the compartment downwardly through said air space from the upper opening to the lower opening thereof, and a cooling unit within the air space in the path of air circulation therein, said compartment being divided at the bottom to provide an air space with which said lower opening communicates and said air space being of substantially the same area as the compartment and having openings at the top substantially uniformly distributed throughout the area thereof and leading from said air space into the compartment space thereabove.

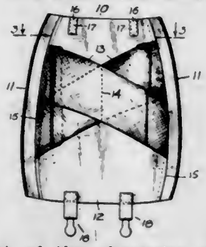
2,168,008
APPARATUS FOR PREVENTING ICE ACCUMULATION
Myron L. Taylor, Hudson, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application August 20, 1937, Serial No. 160,105
5 Claims. (Cl. 244—134)



1. Apparatus for preventing ice accumulation,

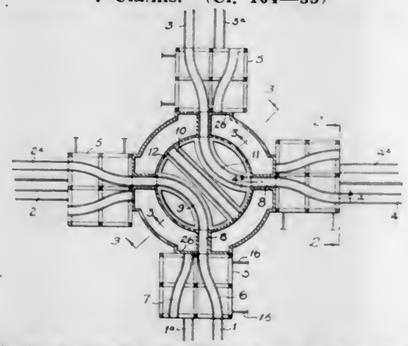
said apparatus comprising an area of highly stretchable sheet rubber-like material, means for stretching the same to loosen ice deposited thereon, and stretchable reinforcing strips disposed in spaced-apart relation across said area, said strips being less stretchable than said rubber-like material and highly resistant to tearing and so associated with said material that accidental tearing of said material is limited to the regions between said strips and adequate stretchability of said area is provided for effectively preventing ice accumulation.

2,168,009
GIRDLE
Harry Van Praag, New York, N. Y.
Application February 7, 1939, Serial No. 254,987
1 Claim. (Cl. 2—27)



A garment of the character described comprising a front section and a back section, both of two-way stretch material, and an elastic support for the abdomen and diaphragm of the wearer extending transversely inside the front section, said support consisting of two strips of one-way stretch elastic webbing crossing one another at an angle, the ends of said strips being arranged in pairs, the ends of each pair being disposed contiguous and in substantially longitudinal alignment and being attached to the front section along lines substantially longitudinally thereof, the length of the strips being greater than the distance between their points of attachment.

2,168,010
SWITCHING SYSTEM
Philip Verplanck, Akron, Ohio
Application February 21, 1938, Serial No. 191,647
7 Claims. (Cl. 104—35)



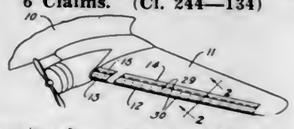
1. In a railway switch system for a plurality of double tracks, a turntable interposed at the region where said tracks tend to intersect, said turntable having a straight single track section carried thereby for continuation of the aligned double tracks and at least one arcuate single track section for connection of tracks approaching each other angularly, and means for selectively connecting any of the double tracks with the adjacent single track sections of the turntable.

2,168,011
POLYMERIZATION OF 1,2-DIHYDRONAPHTHALENE AND POLYMER
Joseph Frederic Walker, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 4, 1938, Serial No. 183,338
5 Claims. (Cl. 260—670)

1. The process for polymerizing 1,2-dihydronaphthalene which comprises reacting it with sulfuric acid of 75 to 85% strength.

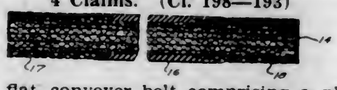
5. As a new composition of matter, a solid, crystalline dimer of 1,2-dihydronaphthalene, the melting point of which is 51–52° C. in the purified state and the boiling point of which is about 210–220° C. at a pressure of 1–5 mm. of mercury pressure.

2,168,012
PROTECTIVE COVERING FOR AIRCRAFT SURFACES AND THE LIKE
Harry E. Waner, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application September 29, 1937, Serial No. 166,322
6 Claims. (Cl. 244—134)



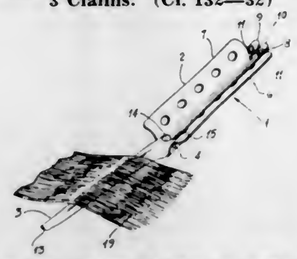
4. Apparatus for preventing the accumulation of ice upon a surface, said apparatus comprising a covering for the surface including a stretchable area of the covering of resilient rubber-like material, means for intermittently moving said stretchable area of the covering away from said surface and distorting said covering, reinforcing means extending over a relatively small part of said stretchable area to resist tearing of said part while nevertheless permitting adequate stretching of an adjacent portion of said area for effectively preventing ice accumulation, the reinforced part of said area having an aperture through it to promote equalization of air pressure at the two faces of said area so that the movement of said area away from and to said surface will not be objectionably resisted by a differential of air pressure at said faces.

2,168,013
CONVEYER BELT
Reuben E. Winch, Dallas, Tex., assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
Application July 8, 1937, Serial No. 152,496
4 Claims. (Cl. 198—193)



1. A flat conveyer belt comprising a plurality of layers of woven reinforcing fabric arranged in laminations extending from edge to edge of the belt and exposed at its side faces, a wear-resisting layer of rubber-like material on the material-supporting face of the belt, a narrow strip of bare woven fabric at each margin of the pulley contacting face of the belt adapted to slide along a stationary guideway, the strips having inner margins of the fabric thereof terminating at the intermediate pulley-engaging portion of the belt, and a pulley engaging layer of rubber-like material therebetween, the inner margins of said strips being overlapped by said pulley-engaging layer with the inner marginal portions of the strips held substantially parallel to the face of the belt without offset, said belt being of uniform thickness throughout.

2,168,014
HAIR WAVER
George Yates, Glendale, Calif., assignor to Ross M. McFadden, Los Angeles, Calif.
Application February 10, 1939, Serial No. 255,622
3 Claims. (Cl. 132—32)

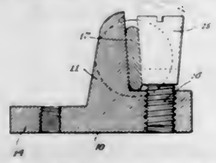


1. In a hair waver, a pair of jaws hinged together, one of said jaws provided with a deep concavity and with wing portions transversely curved outwardly from said concavity, the other jaw being adapted to be swung between said wing portions and within said concavity.

2,168,015
THERMAL SEAL
William C. Calvert, Cuyahoga Falls, Ohio, assignor to Wingfoot Corporation, Wilmington, Del., a corporation of Delaware
No Drawing. Application August 2, 1933, Serial No. 683,293
12 Claims. (Cl. 153—42)

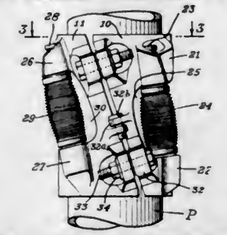
1. A thermal seal of a rubber hydrochloride.

2,168,016
ELECTRICAL TERMINAL
Charles E. Hanny, Plainville, Conn., assignor to The Trumbull Electric Manufacturing Company, Plainville, Conn., a corporation of Connecticut
Application January 31, 1938, Serial No. 187,874
7 Claims. (Cl. 200—134)



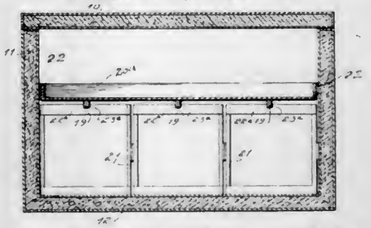
1. A two-part electric terminal comprising a metallic supporting base and a rotatable clamp member, the base having a wall integral therewith and projecting therefrom at substantially right angles, said wall having a flat abutment surface, said clamp member having screw threaded engagement in the base with its axis inclined relative to the adjacent flat abutment surface of the wall, said clamp member also having a long tapered head whose lateral surface provides a rotatable clamping means having a line contact parallel with the adjacent abutment surface of the base wall so that a flat terminal may be clamped between said wall and said tapered head by rotating said clamp member and causing a line contact of the lateral surface of its tapered head to rotate against the inserted flat terminal.

2,168,017
REAMER BODY
Otto Hammer, Whittier, Calif., assignor to Security Engineering Co., Inc., Whittier, Calif., a corporation of California
Application September 22, 1937, Serial No. 165,148
11 Claims. (Cl. 255—73)



3. A reamer comprising two body parts hingedly connected together, means for drawing the free ends of the body parts together into clamping engagement with the drill pipe, reamer cutters mounted upon said body parts, means for preventing rotation of the body parts relative to the drill pipe comprising knurled rubber segmental rings recessed in the top and bottom of the body adapted to be compressed between the drill pipe and the body upon tightening the body.

2,168,018
REFRIGERATING DELIVERY VEHICLE
Barge L. Hartz, Bethesda, Md.
Application May 1, 1937, Serial No. 140,226
2 Claims. (Cl. 296—24)

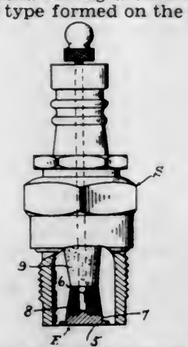


1. In a refrigerating delivery vehicle having a floor including a support for an operator, a body having an opening at one edge at the top thereof through which the body is loaded and unloaded, rail-like guides supported above the floor of the body, crates slidable under the guides and having recesses to receive the lower edges of the guides whereby the said crates are guided as they slide on the floor of the body.

2,168,019
SPARK PLUG
James M. Watts, John Freesh, and Fred Borchers, Los Angeles, Calif.
Application July 9, 1937, Serial No. 152,840
9 Claims. (Cl. 123—169)

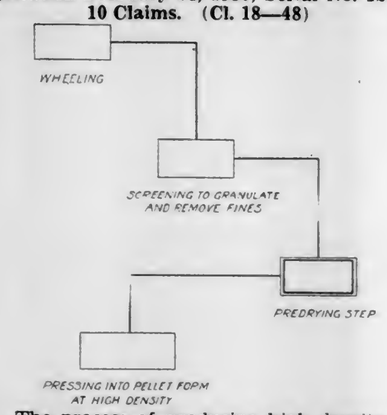
1. In a spark plug electrode comprising a me-

tallic stem, a head having a cam-shaped periphery of the step type formed on the stem, a shoul-



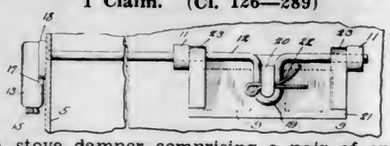
der formed on the head, and insulating material bearing on the shoulder and surrounding the major portion of the stem.

2,168,020
BLACK POWDER MANUFACTURE
Clarence W. Brooks, Jr., Wenonah, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application February 24, 1937, Serial No. 127,401
10 Claims. (Cl. 18—48)



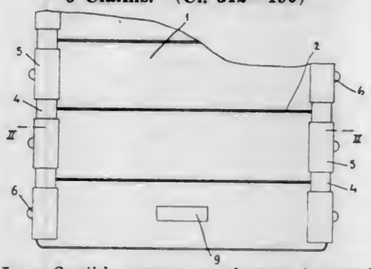
1. The process of producing high density pellets of black blasting powder from wheel cake, which process comprises subjecting the wheel cake to a preliminary drying step and compressing said dried wheel cake to a density of at least 1.40.

2,168,021
DRAFT CONTROL MECHANISM
Ross B. Cranmer, Barnegat, N. J.
Application July 25, 1938, Serial No. 221,246
1 Claim. (Cl. 126—289)



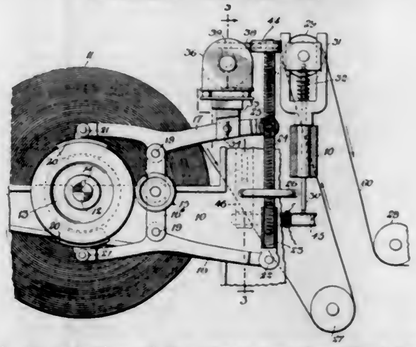
A stove damper comprising a pair of spaced bearing members, a damper section, bearings on said damper section and held between the first mentioned bearing members, a lug formed centrally of the damper section, an operating rod extending through said bearings, an offset portion formed on the rod and fitted around the lug, a key extending through the lug and engaging the offset portion of the rod securing the damper section to said rod, and means for securing the rod in various positions of adjustment.

2,168,022
FLEXIBLE SCREEN
Johan Drager, Amsterdam, Netherlands
Application July 19, 1938, Serial No. 219,987
In the Netherlands July 22, 1937
6 Claims. (Cl. 312—190)



1. In a flexible screen or shutter in combination, oblong strip elements alined in juxtaposition with their longitudinal edges adjoining each other, an elastic band or ribbon embracing the edge portions of the strip elements on either side thereof and means for holding said band or ribbon applied against said strip elements.

2,168,023
AUTOMATIC BRAKE MECHANISM FOR FEEDING MATERIAL FROM A ROLL
Charles Peter Dymeck, New York, N. Y.
Application November 17, 1936, Serial No. 111,242
6 Claims. (Cl. 242—75)



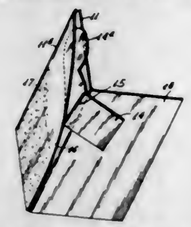
1. In a device of the character described having a braking mechanism, a screw to operate said mechanism, an arm connected with the end of said screw whereby the movement of the arm in one direction will turn the screw in the same direction, a solenoid having a core pivoted to said arm, and means for energizing said solenoid to move said arm, to turn said screw and to lessen the tension of said brake mechanism.

2,168,024
CLEANING COMPOSITION
George R. Ensminger, New Brunswick, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 12, 1936, Serial No. 110,473
7 Claims. (Cl. 87—5)

1. A cleaning composition for preparing coated

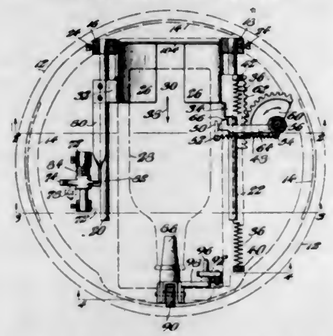
surfaces for refinishing, comprising hydrocarbon diluents having a boiling range of about 135° C. to 225° C. in major proportion, about 5 to 10% by weight of an organic solvent for nitrocellulose having a solvent power at least equal to diethylene glycol monobutyl ether and less than ethyl lactate, said organic solvent having an evaporation rate not greater than that of ethyl lactate, and about 1% of a substantially non-volatile liquid nitrocellulose plasticizer.

2,168,025
NOVELTY FOLDER
Warren Franke, Brooklyn, N. Y.
Application January 18, 1939, Serial No. 251,556
10 Claims. (Cl. 46—36)



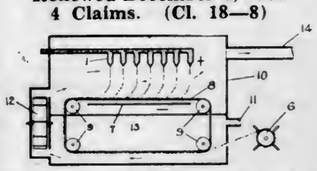
1. A novelty folder, comprising a pair of cardboard or the like leaves connected at one side to open like a book, a strip of cardboard or the like material carried by the outer face of the front leaf and extending past the hinge connection of the leaves and formed with a fold at an acute angle to the hinge connection and having a rear section connecting from said fold and continuing to the rear face of the back leaf and normally located beneath the top edge of said back leaf, and a member attached to the rear face of the back leaf and adapted to straighten said fold when said leaves are opened to project the rear section of said strip above the top of said back leaf.

2,168,026
BOTTLE BREAKING DEVICE
Adam Fritz, Philadelphia, Pa.
Application March 3, 1938, Serial No. 193,620
4 Claims. (Cl. 83—93)



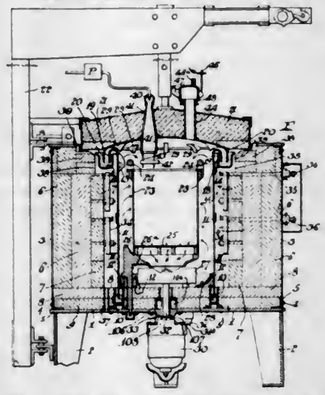
1. A bottle breaking device comprising a receptacle cover, a door formed therein for insertion therethrough of the bottle to be broken, means for normally retaining the door closed, means under said door for supporting the bottle in a position to be broken, a hammer mechanism on the underside of said cover and operable from the outside thereof adapted to deliver a blow to said bottle, means for opening said door and means for rendering said hammer mechanism inoperable as long as the door is open.

2,168,027
APPARATUS FOR THE PRODUCTION OF FILAMENTS, THREADS, AND THE LIKE
Ernest K. Gladding, Buffalo, N. Y., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 7, 1935, Serial No. 53,387
Renewed December 7, 1938
4 Claims. (Cl. 18—8)



1. In an apparatus for the electrical spinning of artificial fibers, in combination, oppositely charged stationary electrodes spaced from each other to create a high potential electrical field therebetween, means for passing a stream of spinning solution between said electrodes whereby said high potential field will cause said stream to break into a plurality of fine fibers and cause the same to be attracted towards one of said electrodes, and non-conducting means movably positioned between said electrodes adapted to collect said fibers and carry them from the field of electrical influence between said electrodes.

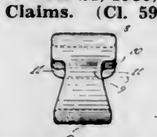
2,168,028
HEAT TREATING SYSTEM
John W. Harsch, Gwynedd, Pa., assignor to Leeds & Northrup Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 12, 1938, Serial No. 184,554
11 Claims. (Cl. 266—5)



1. A heat-treating furnace comprising a heating chamber, a retort in said heating chamber having a channel at its upper end for holding a body of fluidic sealing material, a second channel for holding a second body of fluidic sealing material disposed about said heating chamber, a floating seal member affording access to the interior of said retort and for closing the heating chamber space outside of the retort having flanges immersed in said bodies of sealing material, and a cover for said retort having a flange received by

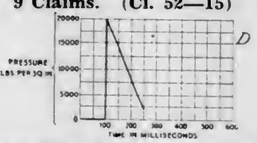
said second-named body of sealing material and removable for access to the interior of the retort while said sealing member is in place.

2,168,029
CROSS CHAIN REPAIR LINK
Frank B. Hewel, Pittsburgh, Pa.
Application November 24, 1936, Serial No. 112,544
5 Claims. (Cl. 59—84)



1. As an article of manufacture, a strip-form link for chains having smooth intermediate edges and substantially oppositely disposed notches between each of said edges and each end of the link, said ends being non-overlapping and disposed in substantial alinement.

2,168,030
EXPLOSIVE COMPOSITION
Harrison H. Holmes, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application January 12, 1937, Serial No. 120,172
9 Claims. (Cl. 52—15)

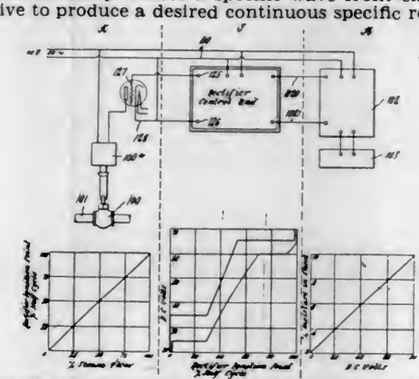


5. A deflagrating explosive composition comprising ammonium nitrate intermingled and in intimate contact with at least one finely divided atmospherically stable metal capable of undergoing rapid combustion at temperatures normally prevailing during the combustion of black powder, and black powder, said metal being present in amount sufficient to serve as an ignition accelerant.

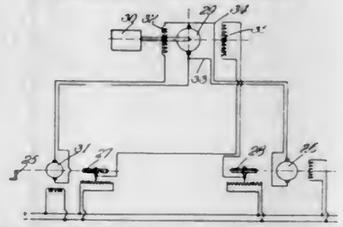
9. A deflagrating explosive composition comprising from 15–45% ammonium nitrate intermingled in intimate contact with at least approximately 1% of powdered aluminum.

2,168,031
AUTOMATIC CONTROL OF ELECTRIC POWER
Wilfred H. Howe, Winchester, Mass., assignor, by mesne assignments, to The Foxboro Company, Foxborough, Mass., a corporation of Massachusetts
Application November 8, 1935, Serial No. 48,899
4 Claims. (Cl. 250—27)

1. In a system including an electrical apparatus having a condition to be controlled, a source of power, an ionic valve having separate control of ignition time for controlling the passage of electrical energy from said source to said apparatus, and a control circuit for said ignition time impressing on said control a variable controlling direct current potential derived from said condition and alternating current potential containing at least one component of the same frequency as said source, means producing an alternating current voltage having a component of a frequency different from that of said source, and means impressing said alternating current voltage on said control circuit, said producing means being designed to produce a continuously defined wave front which when superimposed on the wave front of said controlling circuit unmodified by said means produces a specific wave front effective to produce a desired continuous specific relationship between the controlled condition and the power passed by said valve.



2,168,032
ELECTRIC TRANSMISSION SYSTEM
Nicholas Japolsky, Highgate, London, England
Original application October 10, 1936, Serial No. 104,965. Divided and this application February 12, 1938, Serial No. 190,219. In Great Britain October 5, 1935
5 Claims. (Cl. 172—239)

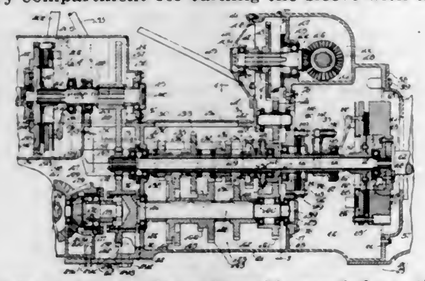


1. A mono-periodic electric transmission system comprising a D. C. generator whose output is dependent upon speed of operation arranged to act as the transmitter, and a D. C. motor whose speed is dependent upon its input, arranged to act as the receiver, connections between said D. C. generator constituting the transmitter and said D. C. motor constituting the receiver arranged to supply an input to the D. C. motor receiver according to the difference in speeds of the transmitter and receiver, and displacement recording means associated with the receiver and the transmitter and controlling the input through said connections to the receiver so that such input is proportional to the difference in displacement as recorded by said displacement recording mean:.

2,168,033
TRANSMISSION GEARING AND POWER TAKE-OFF
Edward A. Johnston, Chicago, David B. Baker, Riverside, and Clifford R. Rogers, Oak Park, Ill., assignors to International Harvester Company, Chicago, Ill., a corporation of New Jersey
Original application July 5, 1935, Serial No. 29,798. Divided and this application July 25, 1936, Serial No. 93,014
9 Claims. (Cl. 74—326)

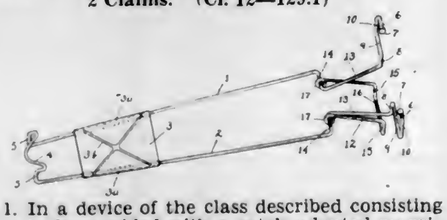
1. A transmission having a longitudinal body housing including a dry compartment at its front end and a wet compartment to the rear thereof,

an engine fly-wheel located in the dry compartment including a longitudinal shaft rigidly connected thereto and extending through said compartments and through a removable plate separating said compartments, a sleeve journaled in said plate for rotation about the shaft in the dry compartment, a normally engaged clutch in the dry compartment for turning the sleeve with the



shaft, a second sleeve turnably carried on the shaft in the wet compartment and constituting a main drive shaft for a change speed gear set carried in the wet compartment, a jaw clutch for operatively connecting the sleeves for conjoint turning, said first shaft constituting a continuous power take-off shaft, and a second power take-off shaft driven from a gear formed with said jaw clutch.

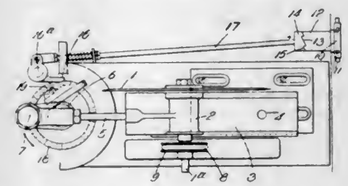
2,168,034
SHOETREE
Michael S. Kissel, Pittsburgh, Pa.
Application April 1, 1939, Serial No. 265,422
2 Claims. (Cl. 12—129.1)



1. In a device of the class described consisting in a body provided with a catch adapted marginally to engage the sole of a shoe at the toe and including a clamp adapted to engage such sole adjacent to the heel of the shoe and thereby secure said body in shoe-straightening engagement with such sole, which clamp includes two clamping arms and means for securing the arms in said engagement with the shoe; the refinement herein described in which said means comprise a member including two spaced-apart portions adapted laterally to engage and secure said arms in clamp-closing position, said member being mounted to swing angularly to the plane of the sole, upon which the device is applied, between clamp-closing and clamp-releasing positions.

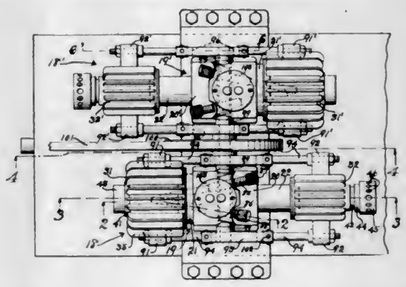
2,168,035
SEVERING DEVICE FOR USE IN BOOKBINDING AND OTHER OPERATIONS
Alfred James Kitcat, Limpsfield, England, assignor to Flexiback Machinery Company Limited, Battersea, London, England, a British company
Application January 10, 1939, Serial No. 250,099
In Great Britain January 4, 1938
8 Claims. (Cl. 164—68)

1. A device for severing moving strip material or the like comprising a rotary cutting knife pivoted about an axis perpendicular to the axis of rotation thereof and spaced therefrom in the direction of said moving strip material, and means for moving said knife into and out of engagement with said strip material and for moving



said knife in the direction of travel of said material when in severing engagement therewith, said means including a continuously rotating gear ring, a pawl associated with said gear ring and intermittently driven thereby, a crank arm driven by said pawl, and a connecting rod operatively connecting said crank arm with said knife.

2,168,036
COMPRESSOR
Pietro Maniscalco, Toledo, Ohio
Application January 19, 1938, Serial No. 185,723
17 Claims. (Cl. 230—40)

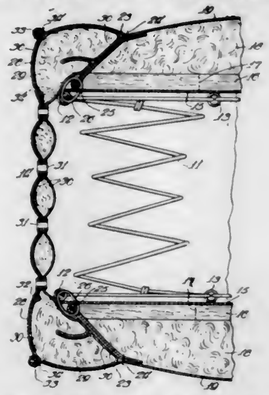


1. A compressor comprising in combination a stationary piston unit including a plurality of pistons extending in different directions, a cylinder movable on each piston, providing a plurality of cylinder chambers, valved inlet means on the end of each cylinder, a valved discharge conduit extending from each chamber, channel means extending thru the unit from one chamber to another to provide direct communication therebetween, and control valve means adapted to close either the channel means or the discharge conduits except one, whereby the compressor can be readily converted and utilized either for single stage or for multistage compression.

2,168,037
MATTRESS
Max Marsack, Milwaukee, Wis., assignor, by mesne assignments, to Marsack Patents Corporation, Milwaukee, Wis., a corporation of Delaware
Application October 21, 1937, Serial No. 170,205
8 Claims. (Cl. 5—351)

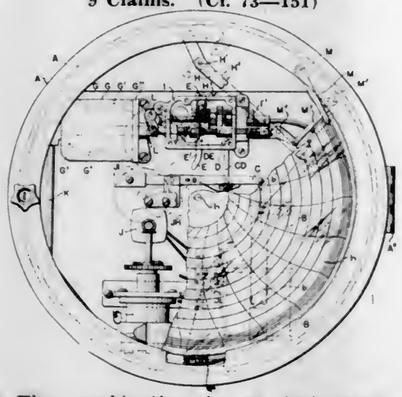
1. A mattress of the kind described comprising a resilient core, a prebuilt cover pad consisting of a plurality of plies of material secured together to substantially provide a plurality of associated well defined cushions, means securing said pads to said

core along the line of securement of the plies at the juncture of the cushions, and means securing



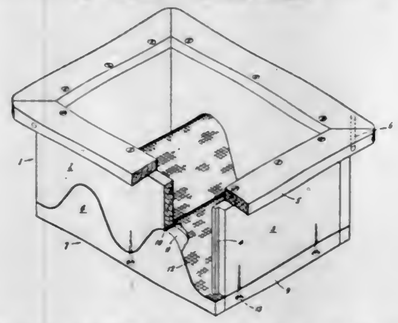
the peripheral edges of an inner ply of the pad to the resilient core.

2,168,038
MEASURING APPARATUS
Coleman B. Moore, Carroll Park, Pa., assignor to The Brown Instrument Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 1, 1936, Serial No. 82,852
9 Claims. (Cl. 73—151)



9. The combination in an instrument for recording the value of a variable quantity, of a controlling member deflecting in one direction or in the reverse direction as said quantity changes, fluid pressure mechanism comprising a pressure chamber, a controlled member adapted to move in one direction or in the reverse direction as the pressure in said chamber is increased and decreased, respectively, and an adjustable valve adapted by its opening and closing adjustments to control the pressure in said chamber, valve operating means including a floating lever attached to said controlling member at a point and through which movement of the latter in one direction or in the reverse direction gives an opening or closing adjustment, respectively, to said valve, independently of the pressure in said chamber, and through which a change in pressure in said chamber resulting from said opening or closing adjustment of said valve effects adjustment of said lever at a point removed from said first mentioned point and in a reverse sense to thereby respectively close or open said valve, an adjustable exhibiting element to indicate the value of said quantity and means through which the movements of said controlled member adjust said element.

2,168,039
STRAINER BOX
James W. Morse, Lansing, Mich., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware
Application January 10, 1938, Serial No. 184,287
1 Claim. (Cl. 210—155)



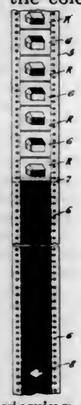
A strainer box for a spray rig tank or the like, comprising a pair of box-like frame portions having mating edges, opposite sets of said edges being similarly corrugated, a strainer extending across said box with its edges positioned between said mating edges, and means releasably securing said frame portions together with said strainer clamped between said mating edges, whereby the operation of assembling said frame portions forms said strainer into a corrugated shape.

2,168,040
COATING COMPOSITION
Walter Nebel, Parlin, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 30, 1936, Serial No. 113,466
21 Claims. (Cl. 134—79)

15. A composition adapted for coating wood and like surfaces comprising cellulose nitrate, a vegetable oil reacted with an oxide of a metal of Group 2 of the Periodic Table at an elevated temperature until said oxide is dissolved and a resin, dispersed in solvents and diluents.

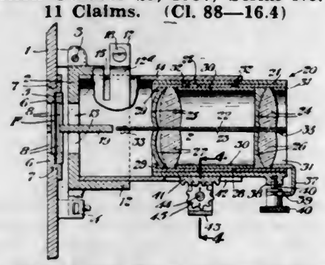
2,168,041
COLOR MOTION PICTURE PROJECTION
Frederick T. O'Grady, Flushing, N. Y.
Application October 15, 1937, Serial No. 169,150
3 Claims. (Cl. 88—16.4)

1. A motion picture film for color projection having a longitudinal series of pictures provided with records of different colors in alternation along the series, and a leader film section borne by said film and extending from the leading end thereof, characterized in that said leader film section has an aperture for passage of projection light to the viewing screen, said aperture is spaced along the leader section from the leading picture of the series a predetermined number of picture spaces, and the picture spaces on the leader section between said aperture and the leading picture of said series are light-obstructive, for projection of light through said aperture and through one of several mechanically shifted color filters alternately disposable across the projection light flux, to determine by the color of the consequent



light flash upon the viewing screen prior to projection of the pictures whether or not said filters will synchronize appropriately with the projection of the pictures having different color records.

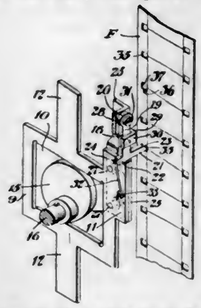
2,168,042
LENS ASSEMBLY FOR MOTION PICTURE PROJECTION
Frederick T. O'Grady, Flushing, N. Y.
Application October 25, 1937, Serial No. 170,760
11 Claims. (Cl. 88—16.4)



1. An optical unit for a motion picture apparatus, comprising a plurality of lens means arranged with their optical axes in transversely spaced relation, a plurality of dividing plates between said lens means and opposed face to face and one attached to one of the lens means and the other to the other lens means, one of said plates being adjustable edgewise relatively to the other plate for relative adjustment of the lens means, releasable fastening means clamping together said plates at their rear margins rearward of the two lens means to retain said relative adjustment, one of said plates being flexible forward of said clamped margins, and manually operable adjusting means for flexing said plate to tiltably adjust the optical axis of its attached lens means with reference to the optical axis of the other lens means.

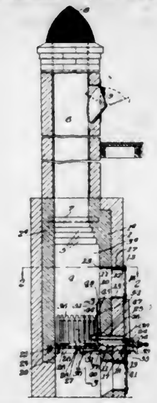
2,168,043
MOTION PICTURE FILM-ADVANCING MECHANISM
Frederick T. O'Grady, Flushing, N. Y.
Application November 10, 1937, Serial No. 173,736
3 Claims. (Cl. 88—18.4)

1. Motion picture film-advancing mechanism including means to support and guide a film for longitudinal advance, a shuttle mounted to reciprocate along the direction of film advance, a film-advancing pawl pivotally borne by said shuttle and having a claw end to enter successive sprocket holes of the film for advance of the film on the forward strokes of the shuttle and to ratchet out of the holes on the return strokes of the shuttle, and means yieldingly urging said claw toward the film, characterized in that there is means to reciprocate the shuttle and claw on a stroke exceeding the distance between corresponding points on successive film picture spaces by a fraction of the sprocket hole dimension longitudinally of the film, the film-advancing edge of the claw is spaced in advance of the pivot axis of the pawl a distance materially exceeding the stroke of the shuttle, the pivot axis is spaced



from the plane of the adjacent face of the supported film a distance materially less than the shuttle stroke, there is stop means to positively limit projection of the claw into the sprocket holes, the portion of the claw projectible into the sprocket holes is of a size to afford clearance for appreciable shift of the claw between the fore and aft edges of the holes and is formed and arranged for camming over the rear edges of the holes to withdraw it from the holes without engaging the forward edges of the holes, and there are positive guides borne by the shuttle to engage opposite sides of the pawl at points materially spaced from its pivot to prevent lateral wobble of the pawl.

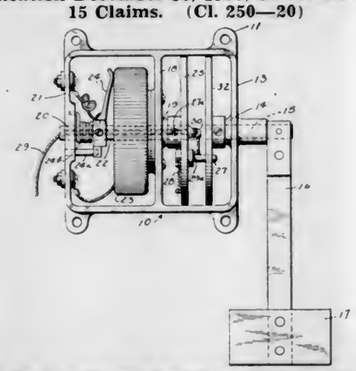
2,168,044
INCINERATOR FURNACE
Leo Paul O'Hara, Pittsburgh, Pa.
Application March 4, 1938, Serial No. 193,892
5 Claims. (Cl. 110—18)



1. In an incinerator furnace, a burner assembly comprising a burner block arranged to extend through the wall of the combustion chamber, a

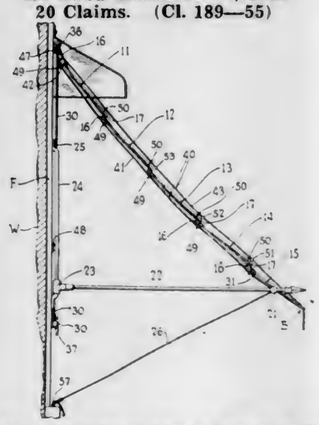
tubular gas burner extending through the block, a shield above the inner end of the burner, said shield being chambered, means for supplying air to said shield from without the furnace, and a draft flue communicating with the interior of the shield and extending upwardly within the furnace.

2,168,045
AUTOMATIC VOLUME CONTROL
Mendel N. Pack, Dayton, Ohio
Application December 30, 1936, Serial No. 118,243
15 Claims. (Cl. 250—20)



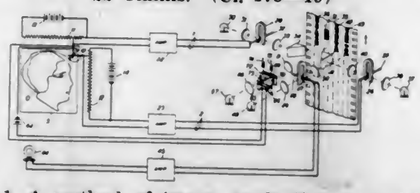
13. In a radio receiver for a motor vehicle, the combination of a variable electrical resistance element comprising a movable contact arm to control the volume of the output of the radio receiver, a driven member connected to the contact arm, a driving member, means to displace the driving member angularly in proportion to the speed of the motor, and an adjustable part connected to the driven member and engageable by the driving member to transmit the angular displacement of the driving member to the contact arm to control the volume of the radio receiver, the position of said adjustable part adapted to determine the moment of engagement between said part and the driving member.

2,168,046
AWNING BLIND
Harold Ruscher, Mount Vernon, N. Y.
Application December 4, 1935, Serial No. 52,745
Renewed December 28, 1938
20 Claims. (Cl. 189—55)



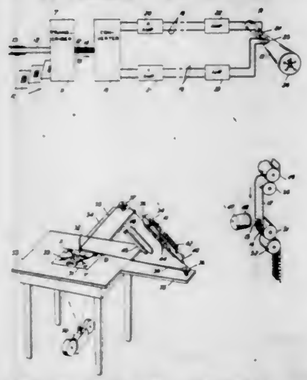
1. A leaf structure of the nature of a Venetian blind, comprising leaf components connected together by flexible elements and characterized by marginal flanges adapted to constitute complemental interlocking means when brought into contiguous relation along adjoining edges of said leaves in a joint disposed transversely of the blind in its extended position, and means adapted respectively to move said leaves to unlock said adjoining flanges and to tilt said leaves to non-contiguous positions with spaces therebetween.

2,168,047
ELECTRO-OPTICAL SYSTEM
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 24, 1936, Serial No. 117,521
22 Claims. (Cl. 178—19)



1. A method of image production comprising the steps of tracing the boundaries of distinctive areas of a subject lying substantially in a plane, simultaneously generating by said tracing two potentials the values of which at each instant are respectively proportional to the distances from the boundary element then being traced to two coordinate axes, making two records corresponding respectively to the variations of said two potentials, transmitting within the period of persistence of vision from said records potentials corresponding to a complete tracing of said subject, and immediately repeating said last step.

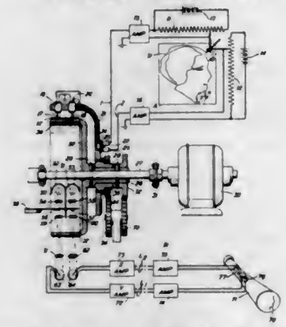
2,168,048
ELECTRO-OPTICAL SYSTEM
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 24, 1936, Serial No. 117,522
10 Claims. (Cl. 178—20)



1. A method of image production comprising the steps of projecting successive still images of a subject upon a screen, each image differing from its immediately preceding image to an extent corresponding to a time interval within the period of persistence of vision, tracing the boundaries of

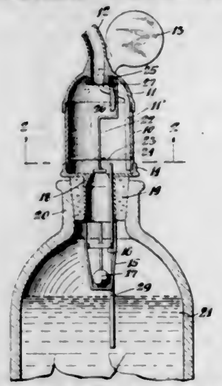
areas of distinctive tone values of said images, generating two potentials continuously varying in accordance with the positions of the successively traced elements of said boundaries with respect to the axes of a coordinate system, recording said potentials, and producing electric signal currents in accordance with said recorded potentials at a rate of speed different from that at which said potentials were recorded.

2,168,049
ELECTRO-OPTICAL SYSTEM
Albert M. Skellett, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 24, 1936, Serial No. 117,523
9 Claims. (Cl. 178—20)



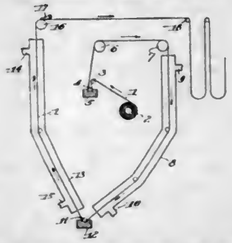
1. A method of image production comprising the steps of tracing or drawing the boundaries of distinctive areas of a subject, simultaneously generating by said tracing two potentials continuously varying in according with the positions of successively traced elements of said boundaries recording these potential variations, transmitting these variations from the recording means immediately thereafter, and retransmitting from this record at intervals within the period of persistence of vision as much of the record as has been made up to that time.

2,168,050
APPORTIONING DEVICE
Benjamin Slipikas, Brooklyn, N. Y.
Application March 23, 1938, Serial No. 197,566
2 Claims. (Cl. 221—147)



1. In an apportioning apparatus as described particularly for measuring liquid poured from a bottle into a glass a graduated container having a spout and a vent opening, a cap on said container with which said spout is formed, and a perforated cap closing the other end of said container, a ball valve for regulating the quantity of liquid supplied to said container, a vent pipe communicating with said vent opening and the container, a cover for said spout hinged intermediate its ends to the wall of said container, an operating wire pivotally secured at one of its ends to one end of said spout cover, a valve seat at the other end of said wire, said wire movably guided in said container to extend into the bottle neck at a certain inclination of same and closing the spout cover, a cage for the ball of said valve, formed with said closing cap of the container, an intermediate ball rest in said cage on which the ball is preliminarily seated during the filling of said container with the bottle held tilted to a certain predetermined angle, and through which the ball can fall upon further tilting of the bottle to rest on said wire valve seat to close the communication between bottle and container and to open the cover of said spout to allow a dispensation of the liquid from said container.

2,168,051
METHOD OF MANUFACTURING CONTINUOUS COATED SHEETS OF PAPER, FILM, OR THE LIKE
Robert E. Smith and Karl T. Molin, Rochester, N. Y., assignors to Defender Photo Supply Company, Incorporated, Rochester, N. Y., a corporation of New York
Application August 28, 1936, Serial No. 98,422
1 Claim. (Cl. 91—69)

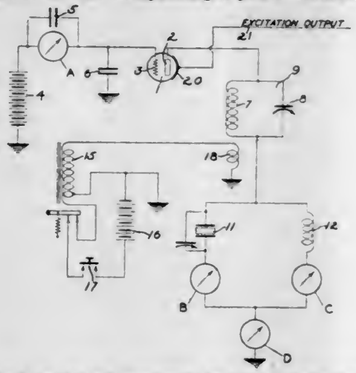


The method which consists of the following steps, namely, first applying a water-containing light sensitive coating to a continuous sheet, secondly applying to the surface of said coating a highly concentrated liquid alcohol which acts to harden the coating partially and to extract a portion of the water from the body of the coating to the surface thereof, thirdly, partially drying the coating by removing a major part of said surface alcohol and water by applying mechanical pressure to the surface of the coating, and finally drying the sheet and coating by evaporation.

2,168,052
STABILIZED OSCILLATING CIRCUIT
Richard L. Snyder, Glassboro, N. J., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del., a corporation of Delaware
Application June 5, 1937, Serial No. 146,640
5 Claims. (Cl. 250—36)

1. The combination with an oscillator comprising an electron multipler having a secondary-electron emitting cathode and an anode and a source of exciting current, of a tuned circuit in

series with said cathode, anode and source, and a control circuit comprising a piezo-electric crys-



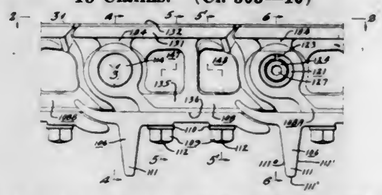
tal and a direct current by-pass connected in series with said multiplier and tuned circuit.

2,168,053

ENDLESS TRACK MECHANISM

Oscar L. Starr, Mission San Jose, Walter Grothe, Alameda, Calif., and Harmon S. Eberhard, Peoria, Ill., assignors to Caterpillar Tractor Co., San Leandro, Calif., a corporation of California

Application August 25, 1934, Serial No. 741,388
18 Claims. (Cl. 305—10)



5. A link for an endless self-laying track having a full width rail portion, a portion at each end of the link of reduced width and having a rail projection adjacent the rail surface thereof, each projection being formed with a convex curved surface, and a concave surface formed at each end of the link under the rail surface of the full width rail portion, all of said curved surfaces being disposed obliquely with respect to a side edge of the full width rail portion and terminating in similarly oblique substantially parallel edges providing end edges of the rail surface, each convex surface at an end of the link being of a shape complementary to that of the concave surface at the opposite end of the link to enable said link to be connected to like links with adjacent end edges and adjacent curved surfaces of adjacent links substantially parallel and in close proximity.

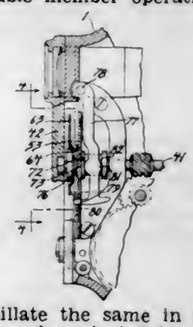
2,168,054

INTERMITTENT STRIP FEED MECHANISM AND THE LIKE

Bruno Stechbart and George A. Brueske, Chicago, Ill., assignors to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois

Original application February 2, 1934, Serial No. 709,468. Divided and this application December 1, 1937, Serial No. 177,528
1 Claim. (Cl. 88—18.4)

An intermittent feed mechanism including a ratchet toothed shuttle pivoted for feeding movement in a plane corresponding with that of a perforated strip fed thereby and having a portion adjacent the pivotal axis thereof reduced in cross section for the flexing thereof normal to said plane to engage and disengage perforations of the strip, a revoluble member operative upon said



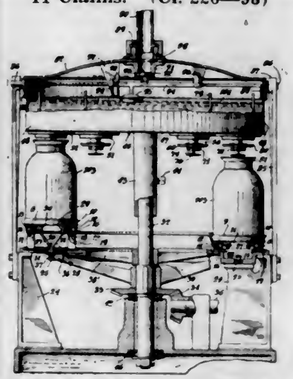
shuttle to oscillate the same in said plane, a toothed pilot member pivoted for strip perforation engaging and disengaging movement, and means fixed with said revoluble member for actuating said pilot member in timed relation with said shuttle.

2,168,055

MILK CAN FILLER

Joseph Stellitano, Long Island City, N. Y.

Application March 26, 1938, Serial No. 198,185
11 Claims. (Cl. 226—98)



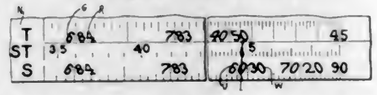
11. A milk can filler comprising a rotatable charging chamber, a plurality of circumferentially disposed charging valves mounted in the bottom wall of said charging chamber, a pair of double tracks having arcuate portions beneath said rotatable chamber, a conveyor movable along said tracks, and milk can carriages connected to said conveyor and supported on said tracks and spaced apart to correspond with the spacing of said charging valves, said tracks having inclined portions to raise each of said carriages and a can thereon when they reach a position beneath a charging valve when said chain is caused to travel in unison with said rotatable chamber, each of said valves being adapted to be opened by the upward movement of a can when a carriage is caused to rise on said inclined portions of said tracks to allow milk to flow from said chamber into the can engaged by the valve and each of said valves having means adapted to close the valve when the milk flowing into the can reaches a predetermined level and each of said valves having means to close the valve when a can is disengaged therefrom.

2,168,056

SLIDE RULE

Carl M. Bernegau, Hoboken, N. J., assignor to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey

Application August 20, 1937, Serial No. 160,016
6 Claims. (Cl. 235—70)



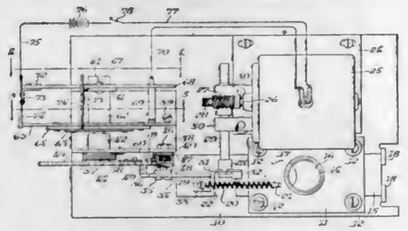
3. A slide rule comprising two relatively movable members, one of said members having a scale graduated in scale graduations to give readings of angles the trigonometric function of which is found by reference to a logarithmic scale on the other member, said graduations being provided with indicia giving the angle the sine of which is found on said logarithmic scale, said indicia slanting in the direction in which the angle increases and other indicia giving the angle of the cosine thereof and slanting in the direction in which the scale is read for the cosine of the angle.

2,168,057

SWITCH STRUCTURE

Charles J. Breitenstein, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.

Application October 24, 1936, Serial No. 107,468
8 Claims. (Cl. 200—8)



1. In a switch structure, a support, a shaft carried thereby, a sleeve turnable on the shaft and carrying a movable disk including an insulator ring, a conductor ring carried by the insulator ring as part of the disk, a stationary disk of insulated material associated with the support adjacent the disk and carrying a conductor wiper always contacting the proximate face of the conductor ring of the movable disk at a point inwardly of the periphery of the said ring, one or more conductor brushes rigidly carried on the periphery of the stationary disk and spanning the space between the two disks in a manner to cause said latter brush or brushes to engage the periphery of the conductor ring, and means to turn the movable disk.

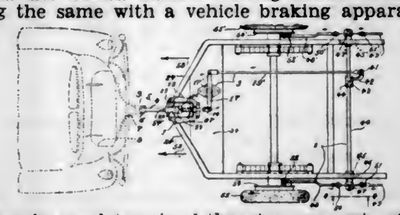
2,168,058

AUTOMOTIVE TRAILER COUPLING

Joseph C. Browne, Philadelphia, Pa., assignor to Nathan Posner, Baltimore, Md.

Application June 30, 1937, Serial No. 151,079
2 Claims. (Cl. 188—142)

1. A trailer vehicle coupling adaptable for engagement with a tractor engaging member, the said coupling comprising a coupling connecting bar, having resilient engaging means for causing the said bar to absorb and yield to forwardly directed pulling shocks, and a spring member in combination therewith, for allowing the bar to absorb and yield to rearwardly directed shocks introduced thereto, a secondary thrust and shock absorbing member linked to the rearward end of the said connecting bar, said member providing means whereby both forwardly and rearwardly moving shocks and thrusts are dampened, the said last named member having means for linking the same with a vehicle braking apparatus,



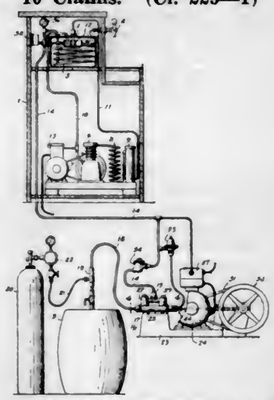
whereby predetermined thrust movements of the coupling bar member will actuate said braking apparatus.

2,168,059

BEVERAGE DISPENSING SYSTEM AND APPARATUS

William C. Buttner, Winnetka, Ill., assignor to The Bastian Blessing Company, Chicago, Ill., a corporation of Illinois

Application March 31, 1936, Serial No. 71,916
10 Claims. (Cl. 225—1)



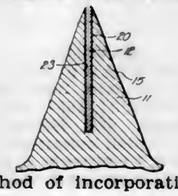
10. The method of dispensing a carbonated beverage from a keg or the like which consists in materially increasing the pressure on the beverage as withdrawn from the keg and absorbing a substantial amount of the increased pressure on the beverage by elevation of the dispensing element and resistance to flow through the system, whereby the beverage is dispensed at normal rates.

2,168,060

METHOD OF MAKING CUTTERS FOR WELL DRILLING TOOLS

Alfred C. Catland, Alhambra, Calif., assignor to Globe Oil Tools Company, Los Nietos, Calif., a corporation of California

Original application June 15, 1937, Serial No. 148,298. Divided and this application February 5, 1938, Serial No. 188,893
2 Claims. (Cl. 76—108)



1. The method of incorporating abrasion re-

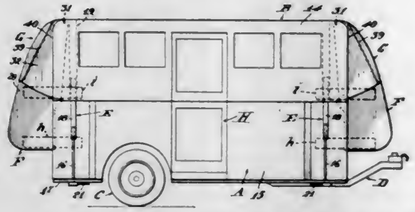
sisting material in the body of a tooth comprising providing a slot in the tooth, providing a pressed sheet of powdered abrasion resisting material and copper, placing said sheet in the slot, and then heating the tooth to sinter the sheet and fuse it to the walls of the slot.

2,168,061
RETRACTABLE RAMP FOR RAILWAY CROSSINGS
Walter Eric Christie, Oakland, and Otto Schroeder, San Francisco, Calif., assignors to Soule Steel Company, San Francisco, Calif., a corporation of California
Application July 13, 1938, Serial No. 219,008
10 Claims. (Cl. 104—31)



1. In a retractable ramp of the character described, the combination with a railroad track and a station platform at each side thereof, of a tunnel formed under one of the platforms, a transfer track extending across the railroad track and into the tunnel, a portable ramp disposed on the transfer track to permit transfer of freight from one station platform to the other, and means for retracting the ramp into the tunnel to clear the railroad track.

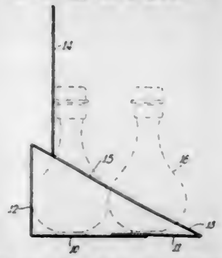
2,168,062
TRAILER FOR MOTOR VEHICLES
Cecil F. Davey, Los Angeles, Calif.
Application August 1, 1936, Serial No. 93,831
10 Claims. (Cl. 296—23)



1. In a motor vehicle trailer, a lower body section, an upper body section, means for raising and lowering said upper body section relative to the lower body section, a pair of foldable end sections carried on said body sections, said end sections being pivotally carried on said body sections to swing outwardly and inwardly from the ends thereof and arranged to extend the body sections when the latter are disposed in their extended positions relative to each other and to fold inwardly relative thereto when said body sections are collapsed relative to each other, and direct connections between the pair of the foldable end sections for effecting collective swinging movement thereof.

2,168,063
DISPLAY FORM
Franklin E. Everson, Scarsdale, N. Y.
Application February 27, 1937, Serial No. 128,085
1 Claim. (Cl. 248—152)

A display form which comprises a single sheet of material folded to provide a bottom wall, a back wall, and a sloping front wall portion, a flap cut from the front wall and pivoted thereto to be disposed in an upward position back of arti-

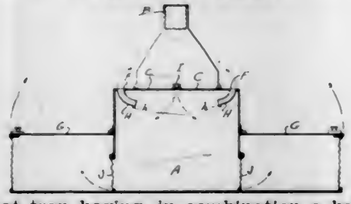


cles disposed in the gap or opening formed by the cut-out.

2,168,064
INSECTICIDE
Dalton B. Faloon, Beacon, N. Y., assignor to Hammond Paint & Chemical Co., Inc., Beacon, N. Y., a corporation of New York
No Drawing. Application June 11, 1935, Serial No. 26,072
12 Claims. (Cl. 167—24)

8. An insecticidal composition comprising a powdered insecticide of plant origin, which normally loses its toxic principles when exposed to the sun's rays, coated with a white pigment in sufficient quantity to inhibit the loss of the toxic principles of said insecticide when exposed to light.

2,168,065
RAT TRAP
Louis C. Heidinger, Belleville, Ill.
Application November 14, 1938, Serial No. 240,315
1 Claim. (Cl. 43—69)

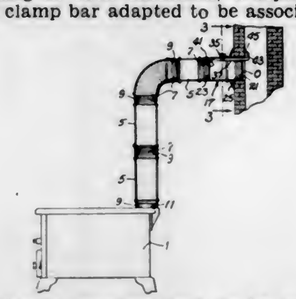


A rat trap having, in combination a bait box centrally mounted above a trap box having a top consisting of a pair of lids having their inner edges closely adjacent and pivotally supported horizontally approximately two-thirds the distance from their inner edges, the outer edges being provided with weights curved in a quadrant about their pivots and each characterized by having a projecting lip adapted to engage a portion of the trap box to limit the tilted swing of the lid, and a stop for the lids when returned to their horizontal position.

2,168,066
FLUE BUSHING
Stanley F. Jackes, St. Louis, and Reynold Gehne, Pine Lawn, Mo., assignors to Jackes-Evans Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application June 20, 1938, Serial No. 214,704
6 Claims. (Cl. 126—318)

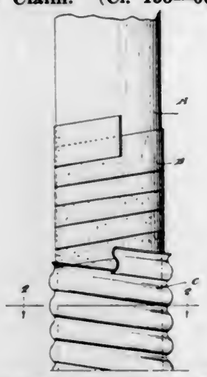
2. A flue bushing comprising a centrally beaded thimble, an extension of one diameter extending from one side of said bead, an extension from the other side of a larger diameter, a flange

adapted to be slipped over either of said extensions and to abut said bead, said thimble having an opening in each extension, a separately organized clamp bar adapted to be associated with



either of said openings and to be moved into holding positions, and manually operable clamping means for maintaining a predetermined position of the bar.

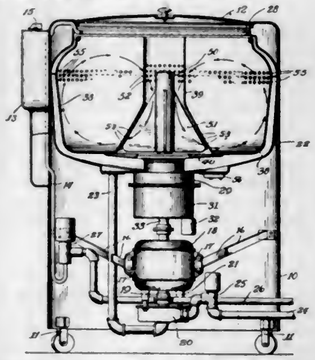
2,168,067
FLEXIBLE PIPE OR TUBING
Percy R. Jones, Lakeville, Mass., assignor of one-third to Bennison Osborne, Clinton, Mass., and one-third to Maurice H. Van Bergh, New York, N. Y.
Application January 2, 1937, Serial No. 118,854
1 Claim. (Cl. 138—60)



As an article of manufacture, a flexible pipe or tube consisting of an inner seamless metal tube; one or more intermediate layers of material which may or may not have insulating value and an outer layer formed of metal strip, said metal strip wound thereabout with the abutting edges in interlocked relationship, the whole construction and arrangement being such that the intermediate layer will prevent the outer layer of metal from injuring the inside seamless tube and the outer layer of metal strip having sufficient tensile strength when formed into a surrounding conduit to prevent any collapse of the inside seamless tube while being bent or otherwise handled.

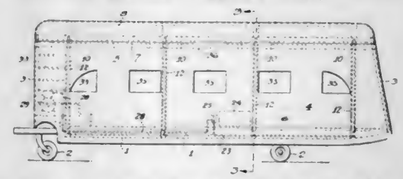
2,168,068
WASHING AND CENTRIFUGING TEXTILES
Aaron A. Loweke, Detroit, Mich., assignor, by mesne assignments, to Bendix Home Appliances, Inc., Detroit, Mich., a corporation of Delaware
Application May 8, 1936, Serial No. 78,692
5 Claims. (Cl. 8—159)

1. In an apparatus of the class described, in combination, a receptacle for textiles to be centrifuged, mounted to rotate on a substantially vertical axis, means for distributing textiles evenly throughout liquid in the receptacle by propelling them in a toroidal path solely with fluid agencies, means for holding the receptacle against rotation during the distribution of the textiles, means for withdrawing the liquid leaving the textiles uniformly distributed about the receptacle, means for rotating the receptacle at a speed high enough for centrifugal extraction of a substantial quantity of liquid from the textiles, and automatic controlling means to cause the distribution and liquid withdrawal and extraction to take place successively.



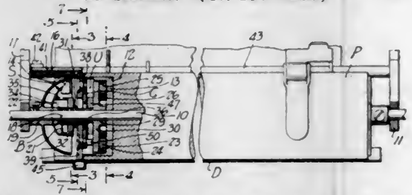
3. A method of washing and centrifuging textiles in a receptacle without removal therefrom, that comprises placing the textiles in the receptacle together with a liquid, agitating the textiles by propelling them in a toroidal path solely with fluid agencies while maintaining the receptacle stationary, whereby they are distributed evenly throughout the liquid in the receptacle, then withdrawing the liquid leaving the textiles uniformly distributed about the receptacle, and thereafter rotating the receptacle on a substantially vertical axis at a speed high enough for centrifugal extraction of a substantial quantity of liquid from the textiles.

2,168,069
TRAILER
Willard J. Miller, Detroit, Mich.
Application June 21, 1937, Serial No. 149,283
7 Claims. (Cl. 296—107)



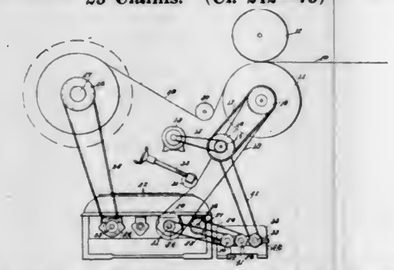
1. A trailer including a body having side and end walls and an upper deck supported substantially within the plane of the upper edges of said walls, a roof having a downwardly extending edge portion adapted to seat at its lower edge adjacent the edges of said upper deck, movable stanchions secured at their upper ends to said roof, guide means along the side walls of said body for said stanchions, and sectional guard rails pivotally supported by said upper deck and adapted to swing inwardly into the space within said roof when said roof is in lowered position.

2,168,070
SIGNALING DEVICE FOR TYPEWRITERS
James Y. Payton, Los Angeles, Calif.
Application August 18, 1936, Serial No. 96,631
19 Claims. (Cl. 197—189)



18. In a typewriter, a platen; a signal; a rotary actuator for activating the signal in response to rotation of the actuator in one direction; a spring adapted to be wound to store energy when the actuator is held from rotating during paper advancing movement of the platen; means for holding the actuator against rotation; means for releasing the actuator when the lower edge of a sheet reaches a predetermined position around the platen, whereby to enable the spring to unwind and rotate the actuator so as to activate the signal; and means for preventing overwinding of the spring.

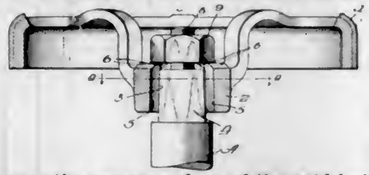
2,168,071
CONSTANT TENSION WINDING CONTROL
William R. Perry, Columbus, Ind., assignor to Reeves Pulley Company, Columbus, Ind., a corporation of Indiana
Application May 18, 1936, Serial No. 80,243
25 Claims. (Cl. 242—75)



2. In a device of the class described, a roll for forwarding a strand of material, a storage roll for said material, means for driving sad forwarding roll at constant speed, and means for maintaining a constant tension on said material between said forwarding roll and said storage roll, comprising a variable speed transmission including an input shaft and an output shaft, said output shaft being connected to drive said storage roll, a torque-measuring device driven at a speed constantly proportional to the speed of said forwarding roll and connected to drive said input shaft for determining the degree of torque applied to said transmission, and means for adjusting the speed ratio between said input and output shafts in response to variations in the power transmitted by said transmission.

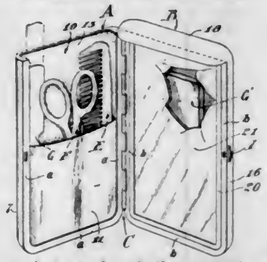
2,168,072
VALVE HANDLE, WHEEL, AND THE LIKE
Vincent P. Rumely, Chicago, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application October 27, 1937, Serial No. 171,227
4 Claims. (Cl. 16—117)

1. A handle adapted to engage a stem, the said handle having an integral apertured hub for non-rotatable engagement with the said stem, means for holding the said handle to said stem, intercommunicating through passages arranged in transverse planes respectively within the said aperture



and upon the upper surface of the said hub surrounding the engaged portion of the said stem whereby circulation of air therepast within and adjacent to the exterior of the said hub and immediately beneath the said holding means is provided.

2,168,073
POCKET TOILET SET CONTAINER
Morris Schnider, Los Angeles, Calif.
Application October 24, 1938, Serial No. 236,736
4 Claims. (Cl. 132—79)

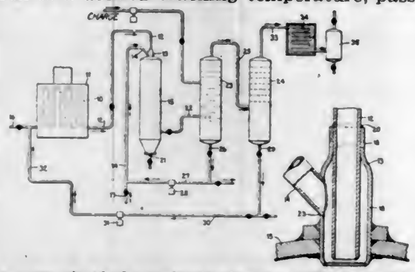


1. In a container for toilet articles, a pair of hingedly connected leaves each of which embodies a rigid back wall having side flanges and an end flange; the side flanges and end flange of one of the leaf members formed to overlie the side flanges and end flange of the other leaf when said leaves are arranged in their closed overlying relation; one of said leaf members being formed of a greater length than the other and having an end flange arranged to overlie an end of the other leaf member to close a space extending between the ends of the side flanges thereof, and a pocket on said last named leaf member opening toward said space, the swinging apart of said leaf members on their hinge connection affording manual access to the open end of said pocket.

2,168,074
CRACKING HYDROCARBON OIL
Victor Stapleton, New York, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application October 25, 1935, Serial No. 46,642
3 Claims. (Cl. 196—58)

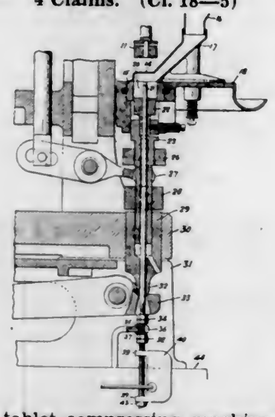
1. The method of cracking hydrocarbon oils, in an apparatus comprising a heating coil and a communicating enlarged reaction chamber, that comprises heating a condensate oil in transit through the heating coil to a high cracking temperature, delivering a stream of resultant highly heated products from said coil into the upper portion of said enlarged reaction chamber, combining a cooler stream of charging stock comprising residual constituents of crude petroleum with said stream of highly heated products in

such manner that no restriction of the mixture occurs during or substantially after admixture by bringing the streams together directly at the point of entry of the same into said enlarged reaction chamber to thereby raise said charging stock to a desired cracking temperature, passing



the commingled products downwardly in said reaction chamber while maintaining them at a cracking temperature under superatmospheric pressure and withdrawing liquid from the lower portion of the chamber at a rate adequate to prevent the accumulation of liquid therein.

2,168,075
COMPRESSING MACHINE
Francis J. Stokes, Philadelphia, Pa., assignor to F. J. Stokes Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 14, 1935, Serial No. 44,906
4 Claims. (Cl. 18—5)



1. In a tablet-compressing machine having a pair of co-operating punches mounted for movement towards and away from each other and having a mold located to receive the operating ends of said punches therein, a fixed part of said machine, a core-rod projecting through said fixed part and into said mold, lock-nuts adjustably securing said core-rod in said fixed part, and a vibrator rigidly secured to said core-rod for oscillating said core-rod to fill said mold uniformly and to produce tablets of uniform density.

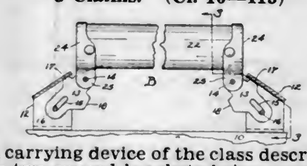
2,168,076
UPHOLSTERY STAPLE
Paul Walenta, Sturtevant, Wis.
Application February 16, 1938, Serial No. 190,697
4 Claims. (Cl. 24—85)

1. An upholstery staple or pin formed from wire comprising a long leg, a short leg, and a U-shaped bridge piece connecting the rear ends of the legs together, both of said legs being provided with penetrating points, and said long leg



having a curved extension on its forward end extending toward the longitudinal axis of the short leg.

2,168,077
HAND LUGGAGE HANDLE
George H. Wheary, Racine, Wis., assignor to Wheary Trunk Company, Racine, Wis.
Application September 20, 1937, Serial No. 164,741
3 Claims. (Cl. 16—115)



1. A carrying device of the class described, comprising two spaced brackets being secured to the member to be carried, a rigid hand grip adapted to loosely fill the space between said brackets and having links pivotally secured at one end to opposite ends of said hand grip, the other ends of said links having slots and being pivotally and slidably secured to said brackets by means of pins which are loosely embraced by said slots, whereby said hand grip may be raised and lowered to operating and inoperating positions, projections on the upper and lower edges of said links adapted to act as stops for the operative and inoperative positions of said hand grip.

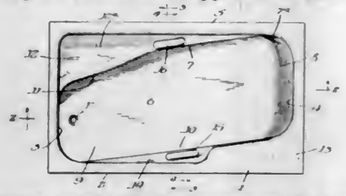
2,168,078
PROCESS FOR REMOVING ACID COMPONENTS FROM HYDROCARBON DISTILLATES
David Louis Yabroff, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application February 7, 1939, Serial No. 255,101
8 Claims. (Cl. 196—32)

1. In the process of separating organic acid reacting substances contained in a water-insoluble neutral or basic organic liquid, the steps comprising treating said liquid with an aqueous solution of a strong base containing a substantial amount of a dissolved aliphatic amino glycol having from 3 to 5 carbon atoms, under conditions to absorb at least a portion of said acid reacting substances in said aqueous solution and to form two liquid layers, one comprising the aqueous solution containing absorbed acid reacting substances, and the other consisting essentially of the treated organic liquid and separating the layers.

2,168,079
SAFETY BATHING FIXTURE
Roy H. Zinkil, Oak Park, Ill., assignor to Crane Co., Chicago, Ill., a corporation of Illinois
Application May 20, 1937, Serial No. 143,656
2 Claims. (Cl. 4—173)

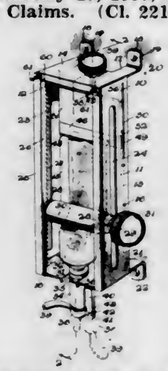
1. An oblong bathing fixture comprising a basin having a bottom, the ends thereof being defined

by substantially parallel extending walls, the sides thereof being defined by walls, one portion of the length of one side wall being parallel to the other side wall, the remaining portion of the said wall extending on a bias as it approaches the end of



the fixture substantially transverse to the said bottom, the opposite side walls being parallel to an axis inslightly angular relation to the horizontal axis of the basin, the end walls being parallel to the vertical axis of the said basin.

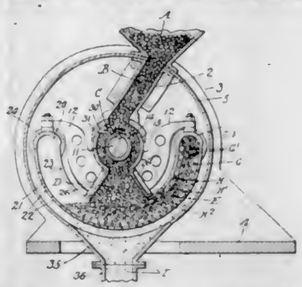
2,168,080
COLLAPSIBLE TUBE DISPENSER
William C. Allen, Houston, Tex.
Application January 19, 1939, Serial No. 251,831
9 Claims. (Cl. 221—60)



1. In a dispensing device of the class described, a frame for holding a loaded collapsible tube in position to allow material to be dispensed from the tube, said frame including a pair of spaced side walls and a rear wall extending between and non-movably connected to the side walls, means for clamping a tube in the frame comprising a plate slidably mounted between the side walls and in substantially the plane of the rear wall, and means for moving said plate into and out of operative engagement with the rear wall whereby the end of a collapsible tube may be clamped between the plate and wall.

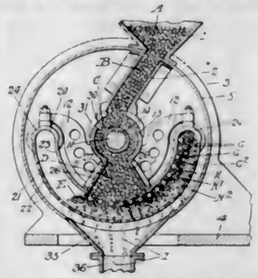
2,168,081
METHOD OF REDUCTION
Robert S. Butler, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application October 19, 1935, Serial No. 45,797
27 Claims. (Cl. 83—9)

23. The method of reducing material which includes maintaining, in a reduction chamber, a load of particles to be reduced mixed with a reducing medium, reciprocating the load in part with and in part along the chamber walls in an elongated defined path such that the travel of the load is substantially horizontal at the central point in such path, and continuously maintaining the volume of the load sufficient to fill said chamber for its full cross section throughout a portion of but less than its entire length, the reciprocating of the load effected at such a rate



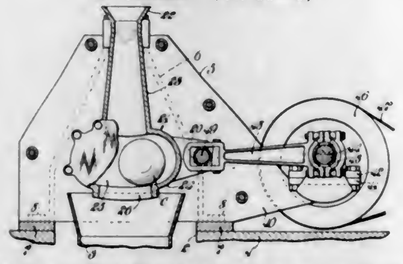
as to cause such filling to prevail throughout substantially the full length of the load but materially less than the length of the chamber.

2,168,082
APPARATUS FOR REDUCTION
Robert S. Butler, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application October 19, 1935, Serial No. 45,796
30 Claims. (Cl. 83—9)



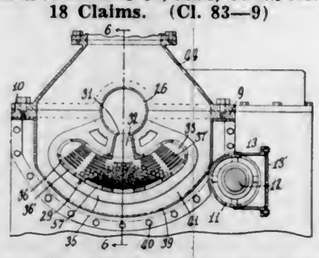
1. In a mill, means providing a size-reducing chamber supported for movement back and forth, said size-reducing chamber elongated in its direction of back-and-forth movement, at least approximating uniformity in cross sectional area throughout the major portion of its length, provided with discharge means through which material of small enough size to go through the same may pass while the chamber is in motion, and having means for the introduction into said chamber during the operation of the mill of material to be processed, including a feed passage communicating with said chamber through an aperture intermediate the ends of the chamber in a wall which extends longitudinally of the latter, and means for moving said chamber back and forth, said chamber of such dimension between said aperture and the opposite surface of said chamber, said chamber and said aperture of such relative lengths and disposition and said chamber-moving means imparting to said chamber movement at such rate and of such amplitude, that during normal continuous size-reducing operation the chamber load will be reciprocated between the ends of the chamber as a substantially compact mass substantially filling the entire cross-section of the chamber throughout the major portion of its own length and sweeping across the feed aperture and controlling the ingress of material awaiting entrance to the chamber at said feed aperture, and coacting with said feed aperture to preclude the building up of the volume of the mass sufficiently to fill the chamber completely.

2,168,083
CRUSHER
Robert S. Butler, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 31, 1934, Serial No. 759,907
Renewed July 15, 1937
13 Claims. (Cl. 83—9)



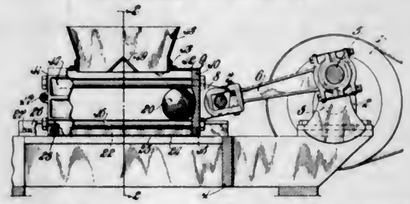
5. In a mill, a frame, a member supported and guided thereon for arcuate oscillatory movement and providing a radially elongated feed passage normal to the path of oscillatory movement of said member and terminating at its mouth in an elongated size-reducing chamber extending in the planes of oscillation of said member, and a relatively large, freely rotatable and bodily displaceable size-reducing element enclosed in said chamber and constrained as to movement only by the walls of said chamber and having a portion thereof at all times opposite the mouth of the feed passage and in the end positions thereof receivable for a material portion of the dimension thereof longitudinally of said chamber within the ends of said chamber, and means for oscillating said member.

2,168,084
SIZE-REDUCING APPARATUS
Robert S. Butler, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 31, 1934, Serial No. 759,902
18 Claims. (Cl. 83—9)



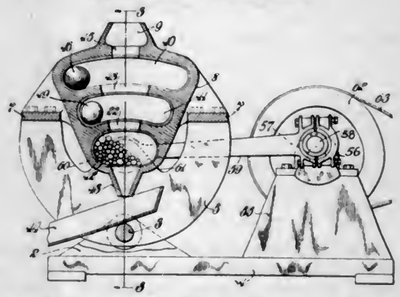
1. In a mill, a frame, a size-reducing chamber supported by said frame for swinging movement, means including a feed passage a portion of which surrounds the axis of chamber swing for feeding material to said chamber downwardly through the top thereof at a point spaced from the ends thereof, size-reducing media in said chamber, means for swinging said chamber on its axis through a predetermined arc to effect size-reducing cooperation between said size-reducing media and said chamber, said chamber having discharge orifices for size-reduced material, and means for removing material discharged from said chamber through said orifices including means for providing for the flotation of adequately size-reduced material upwardly at the opposite sides of the feed passage portion surrounding the axis of chamber swing.

2,168,085
MILL
Robert S. Butler, Santa Monica, Calif., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 31, 1934, Serial No. 759,903
Renewed June 12, 1939
16 Claims. (Cl. 83—9)



16. In a mill, a reciprocable elongated crushing chamber, means for reciprocating the same longitudinally, a free crushing medium enclosed within said chamber, said chamber and crushing medium of such relative dimensions and said chamber reciprocated with such speed that said crushing medium coacts alternately with the opposite chamber ends, and a feed device for said chamber providing for the delivery of feed thereinto during chamber movement, in a direction transverse to the path of crushing-medium movement and between the ends of such path and including feed openings respectively positioned to admit material to the opposite ends of the chamber and through each of which material is admissible when the crushing medium is at its maximum distance from the chamber end for which such opening is provided.

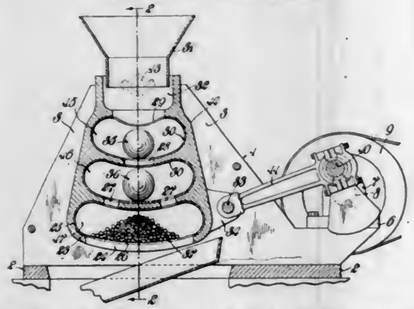
2,168,086
MILL
Robert S. Butler, Santa Monica, Calif., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 31, 1934, Serial No. 759,904
Renewed March 14, 1939
11 Claims. (Cl. 83—9)



1. In a mill, a base, an oscillating member pivotally mounted on said base and provided with a size-reducing chamber radially spaced from the pivot of said member and above said pivot and elongated in the direction of its oscillation and of substantially uniform cross sectional area at sub-

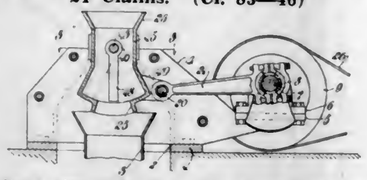
stantially all points between its end portions on planes including the axis of pivotal movement of said oscillating member, means for oscillating said member, size-reduction means loosely enclosed in said chamber and adapted substantially to fill the opposite ends of the latter from top to bottom on alternate movements of said chamber, and a continuously open feed connection with the top of said chamber through which the same may be supplied with material to be reduced during oscillation of said chamber.

2,168,087
MILL
Robert S. Butler, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 31, 1934, Serial No. 759,905
9 Claims. (Cl. 83—9)



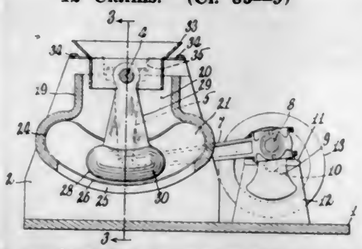
9. In combination, in a mill, a frame member, a pendulum member pivotally supported by said frame member, and means for oscillating said pendulum member at a rapid rate, said pendulum member providing a plurality of arcuate chambers each of a dimension normal to its arc less than its mean radius and each containing a free-moving-size-reducing medium, and of a length to effect coaction between each chamber end and the chamber contents during material size-reduction at least once in each complete cycle of pendulum oscillation and each further of such dimension normal to its path of oscillation that at opposite ends of its contents movement filling from top to bottom occurs for at least half of its length.

2,168,088
MILL
Robert S. Butler, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 31, 1934, Serial No. 759,908
24 Claims. (Cl. 83—46)



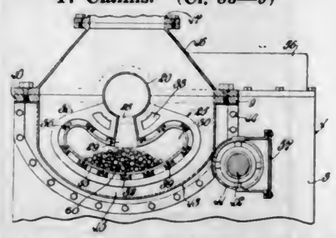
1. In a size-reducing mill, a positively power-oscillated size-reducing member providing a size-reducing chamber having radial wall normal to the planes of oscillation of said member, and a relatively movable size-reducing member within said chamber supported for free pivotal movement about an axis above its center of gravity and engageable at its lower end with said wall of said chamber.

2,168,089
MILL
Robert S. Butler, Santa Monica, Calif., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 31, 1934, Serial No. 759,909
Renewed April 26, 1939
12 Claims. (Cl. 83—9)



1. In combination, in a size-reducing mill, a casing having walls and mounted for relatively free movement in a predetermined path, means for supplying material to be processed to the interior thereof irrespective of motion thereof in said path and for discharging processed material automatically during motion thereof, a size-reducing element extending into said casing in spaced relation to the walls of the latter, and supporting and actuating means for said size-reducing element for supporting the same for movements which change the contour of the space between it and said casing and for moving the same positively back and forth along the same line within said casing and with its path so disposed and of such amplitude that said casing remains unaffected by such movement of said element when said casing is empty of material to be reduced in size but is set in motion upon feed thereinto of such material by forces imparted to the casing wall through the material.

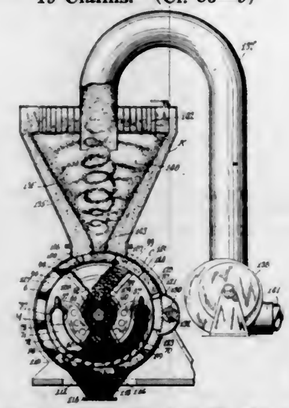
2,168,090
PULVERIZER
Robert S. Butler, Santa Monica, Calif., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application December 31, 1934, Serial No. 759,906
Renewed May 2, 1939
17 Claims. (Cl. 83—9)



1. For a mill of the character in which a generally arcuate grinding chamber is supported for oscillatory movement and has such movement positively imparted thereto, a grinding chamber having an inlet in the top thereof for material to be ground and having wall elements cooperating to form a generally arcuate grinding space having concentric, equally spaced, top and bottom walls and wholly enclosed except for said inlet and for discharge orifices and of substantially uniform cross section normal to its path of oscillation throughout the major portion of its length, said elements providing between them orifices for

the discharge of ground material through the top, ends and bottom of the chamber and having associated means for holding them in fixed relation to each other when assembled.

2,168,091
SIZE-REDUCING APPARATUS
Robert S. Butler, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application August 26, 1935, Serial No. 37,804
19 Claims. (Cl. 83—9)

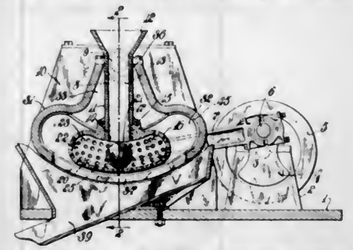


1. In combination, in a mill, an oscillating structure providing a size-reducing chamber spaced from the axis of oscillation of said structure, a hollow portion surrounding the axis of oscillation of said structure and providing a sealing surface struck from said axis of oscillation and traversed by an inlet opening, and a feed passage extending from the interior of said hollow portion to said chamber, a stationary saddle element having a supply passage therein communicating continuously with said inlet opening and surrounded by surfaces conforming to said sealing surface and coacting with the latter in the prevention of the escape of material, and means providing delivery passages respectively for new material to be reduced in size and for material to be re-milled communicating with the supply passage in said saddle element.

6. In an apparatus of the character described, in combination, a mill, a classifier, a series of orbitally-moving pockets receiving the discharge from the mill and moving it to adjacency to the classifier, means for effecting delivering of substantially size-reduced material from said pockets to the classifier, means for returning to the mill material not removed from said pockets, and means including a second series of orbitally-moving pockets also arranged for coacting with said return means to said mill for receiving from the classifier and returning inadequately size-reduced material from the classified to the mill.

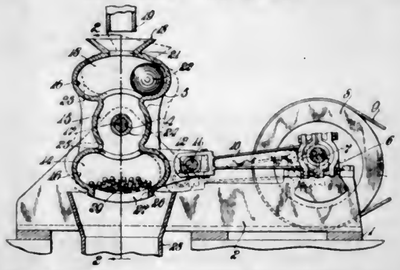
2,168,092
SIZE-REDUCING MILL
Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application November 29, 1935, Serial No. 52,051
15 Claims. (Cl. 83—9)

1. In a mill, a frame, a pendulum pivotally supported on said frame for oscillatory movement and having an elongated arcuate chamber therein, means for positively oscillating said pendulum, a free spherical crusher element in said chamber constrained as to movement only by said chamber wall and having a diametric dimension of relatively the same order as the vertical dimension of said chamber, a pendulum member pivotally supported on said frame for oscillatory movement and having an arcuately



elongated chamber therein receiving said pendulum and having walls cooperating with said pendulum in the further size-reduction of material, means for introducing material into said pendulum during movement of the latter, means for discharging material from said pendulum into said chamber in said pendulum member, and means for discharging material from said pendulum member.

2,168,093
SIZE-REDUCING MILL
Charles F. Osgood, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application August 27, 1936, Serial No. 98,226
11 Claims. (Cl. 83—9)

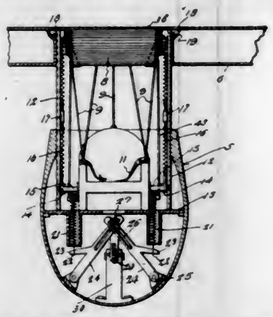


1. In a size-reducing mill, in combination, a size-reducing-chamber-providing member providing a primary size-reducing chamber above a horizontal axis of oscillation, a secondary size-reducing chamber below said horizontal axis of oscillation, said primary and secondary size-reducing chambers providing two-stage reduction of material fed to the primary chamber, means providing for the passing of predeterminedly-size-reduced material between said chambers, and means for oscillating said chamber-providing member on said axis through such an arc that a portion of said primary size-reducing chamber is always higher than the highest point in said secondary size-reducing chamber.

2,168,094
SAFETY APPLIANCE FOR AIRPLANES
Angelo Cozzitorto, Fresno, Calif.
Application January 14, 1939, Serial No. 251,024
2 Claims. (Cl. 244—141)

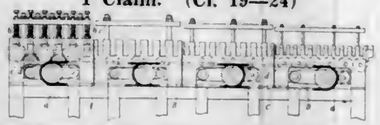
1. In combination with an airplane including a

cockpit and a wing having an opening, a folded parachute located in the opening, tracks extending from the opening into the cockpit, a chair slidable on said tracks and connected to the parachute, elevating springs connected to the chair



and releasably secured to the wing, a cover for the parachute, means releasably securing the cover to the wing, restraining springs connected to said chair and to the first means, and manually operated means in the cockpit to releasably secure said restraining springs to the airplane.

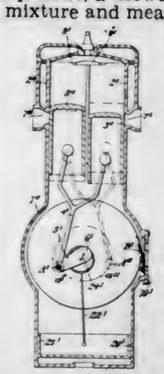
2,168,095
APPARATUS FOR OBTAINING FIBERS FROM THE STALKS OF FLAX AND OTHER BAST PLANTS
Albert Ernest Dodd, Woodford, Dromara, Northern Ireland
Application May 23, 1938, Serial No. 209,582
In Great Britain September 27, 1937
1 Claim. (Cl. 19—24)



Apparatus for decorticating the stalks of flax and other bast plants of the kind embodying a series of pairs of fluted rollers through which the flax or the like is passed, means for pressing the rollers of each pair into contact with one another, the pitch of the flutes of each pair of rollers progressively decreasing through the machine, the pressure of the pressing means varying with the flute pitches of each pair of rollers so that the pressure is greatest for the coarsest pitches and lowest for the finest pitches, and means for revolving each succeeding pair of rollers throughout the machine at a slightly higher surface speed than the preceding pair.

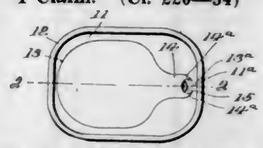
2,168,096
TWO-STROKE ENGINE
Josef Ehrlich, Klosterneuburg, Austria, assignor to Works Development Company, Limited, London, England
Application December 3, 1937, Serial No. 178,003
In Austria December 3, 1936
4 Claims. (Cl. 123—53)

2. A two-stroke internal combustion engine comprising two power cylinders, a common combustion chamber, a piston in each of said cylinders, exhaust ports overrun by the piston in each of said cylinders and means connecting the pistons to a common crankshaft, the arrangement being such that the total period of opening of the exhaust ports is greater than the period of opening of the exhaust ports opened by each of the individual pistons, a blower for compressing the working mixture and means for introduc-



ing the compressed mixture into the cylinders both during and after the period during which the exhaust ports are open.

2,168,097
CONTAINER
Henry A. Fink, Pelham Manor, and John Haycock, Larchmont, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application October 7, 1937, Serial No. 167,818
1 Claim. (Cl. 220—54)



A container provided with a removable section defined by score lines in one of the walls thereof and including a tongue integral with the wall of the container, said tongue having finger portions defined by the score line, and the wall of said container having a depressed portion between the said finger portions on the tongue located immediately adjacent the score line at the end of the tongue for properly locating an opening instrument, and said depressed portion adapted to be shifted inwardly of the container to break the adjacent score line whereby the finger portions on the tongue can be pried outwardly of the container to thus permit the attachment of the opening instrument.

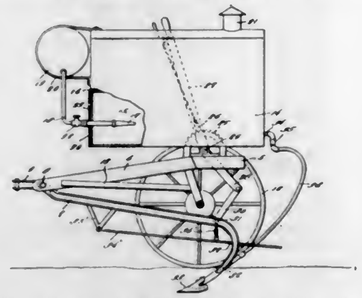
2,168,098
TRANSFER COPYING MATERIAL
Josef Groák, Olomouc, Czechoslovakia
Application February 16, 1938, Serial No. 190,881
In Great Britain February 3, 1938
12 Claims. (Cl. 282—26)



1. In a transfer copying system in which an original sheet carries a reactive substance capable of producing a colouring matter by reaction with another appropriate reactive substance carried on a copy sheet when transferred thereto from the original sheet during copying, an original sheet which is provided with a coating composed of at least one hard waxy substance containing

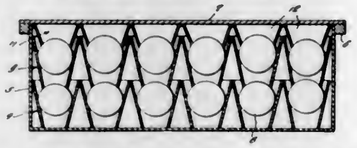
dispersed therein an admixture of starch, a hygroscopic substance and a reactive substance as aforesaid.

2,168,099
PLANT AND INSECT ERADICATOR
Elvin V. Hawkins and Sam Indermuhle, Ellensburg, Wash.
Application June 2, 1938, Serial No. 211,432
1 Claim. (Cl. 111—7)



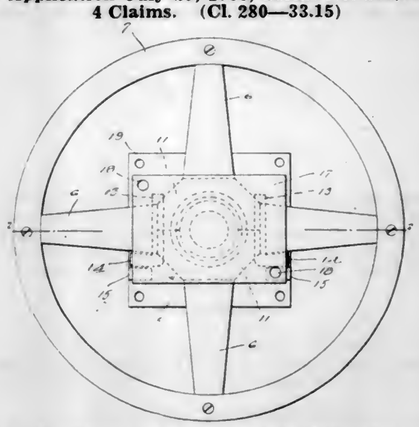
A plant and insect exterminator comprising a frame, a ground-engaging plow depending from the frame, a boiler mounted on the frame, a conduit extending from the boiler, said plow having openings extend ng therethrough, said conduit extending to a point behind the plow and having its end closed, the portion of the conduit behind the plow being formed with openings registering with the openings of the plow, a substantially horizontal deflector plate, having an opening therein, said plate being supported by the frame, said plow having a shank extending through the opening of the plate, said plate opening being oversize to permit freedom of motion of the shank without affecting the deflector plate.

2,168,100
TOMATO LUG FILLER
Albert H. Hinman, Florida City, Fla.
Application October 12, 1938, Serial No. 234,712
2 Claims. (Cl. 217—26.5)



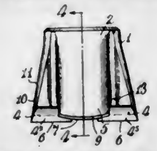
2. In a packing and shipping crate for substantially round perishable fruit, an open-top receptacle, and a plurality of superposed fillers each comprising transversely and longitudinally extending rows of vertically disposed pockets for the fruit of inverted frusto-conical form and greater depth than the diameter of the fruit for sustaining the latter in suspended position therein substantially midway of the pockets, the pockets of the superposed fillers extending at the lower ends thereof into the upper ends of the pockets of the subjacent fillers to rest on the fruit in the latter and thereby hold the same against vibration, a cover for the receptacle, and a top filler of dummy pockets similar in form and arrangement to those of the first-mentioned fillers fitting between said cover and into the pockets of the subjacent fillers to rest against the fruit in the last-mentioned pockets and function as a spacer between the same and said cover.

2,168,101
COUPLING
Elbert S. Miller, Jellico, Tenn.
Application July 29, 1938, Serial No. 222,051
4 Claims. (Cl. 280—33.15)



2. A coupling of the character described comprising a plate, an annulus attached to the plate, said plate being provided with a part socket, a spoke attached at one end to the annulus and provided at its opposite end with a part socket cooperative with the part socket of the plate, and a structure attachable ball disposed between the said part sockets.

2,168,102
DRILL BIT
Paul H. Nast, Royal Oak, Mich., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application November 30, 1938, Serial No. 243,215
20 Claims. (Cl. 255—64)

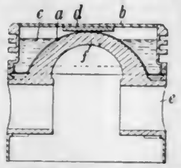


15. A rock drill bit having at its forward end a body having thereon a pair of mutually opposite, relatively wide wings and a second pair of mutually opposite, relatively narrow wings, the latter at right angles to the former, said narrow wings wedge-shaped at their forward ends to provide a cutting edge extending diametrically of said bit and said wider wings having forward plane surfaces sloping forwardly and outwardly from the junction of said wide wings with the body of the bit, said wide wings at their outer extremities terminating in chopping portions each of a length arcuately equal to at least one-half the effective cutting-edge length.

2,168,103
PISTON
Arthur Villeneuve Nicolle, Twickenham, England
Application August 29, 1938, Serial No. 227,423
In Great Britain September 30, 1937
7 Claims. (Cl. 123—176)

1. A piston comprising a head, a skirt and gudgeon pin bosses carried by the skirt, the piston being formed from thin metal, such as thin

steel, and having an interior chamber containing a cooling medium, such as sodium or sodium salt, means extending between the piston crown and the gudgeon pin bosses for transmitting to the piston skirt the forces imposed upon the piston



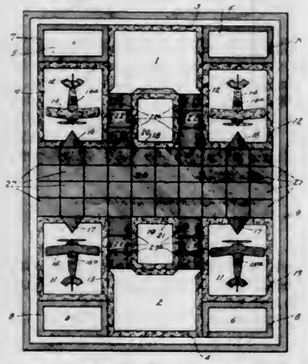
crown, and a highly heat conducting insertion connected with that portion or area of the crown to which the said force transmitting means is connected, the said insertion serving to dissipate heat from said portion or area of the crown.

2,168,104

GAME

Joseph Polanco, New York, N. Y.

Application October 15, 1937, Serial No. 169,261
1 Claim. (Cl. 273—134)



In a game apparatus, a game board, end portions of said board being marked to provide opposing camps located midway the width of the board at opposite ends thereof and flying fields constituting promotion stations in corner portions of the board at opposite sides of the camps, said flying fields projecting forwardly beyond the camps and terminating in spaced relation to ends of the board to provide concentration areas at opposite sides of rear portions of said camps, space between the projecting portions of companion flying fields being marked to provide intermediate areas in front of the camps and pathways leading from the camps at opposite sides of the intermediate areas and divided into blocks, the midsection of the board between opposing flying fields and pathways constituting a battle-field extending the full width of the board and divided into blocks arranged in rows extending transversely of the board and longitudinally thereof, and said flying fields having entrances leading from opposed blocks adjacent opposite sides of the battle-field.

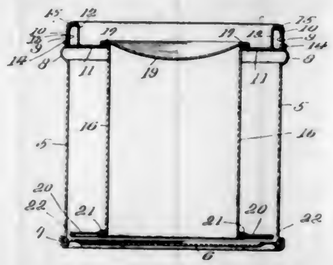
2,168,105

CONTAINER FOR ADHESIVE TAPE

William F. Punte, Syracuse, and Edward E. Baker, Mamaroneck, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application November 29, 1937, Serial No. 177,088
6 Claims. (Cl. 206—52)

1. An adhesive tape container comprising a cylindrical container body closed at its lower end and open at its upper end, and a spool and cover unit including a cover portion for completely closing the open end of the container and having a skirt presented for air excluding frictional con-



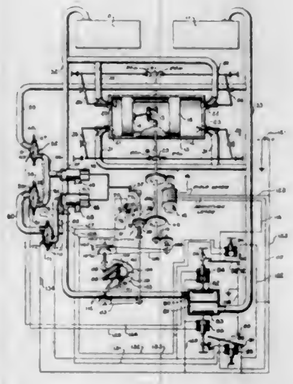
tact with the body and a tape receiving spool portion depending from said cover portion and insertable into said body, said spool portion being clinch-groove secured to said cover portion so that the cover portion presents a closure unbroken from edge to edge.

2,168,106

APPARATUS FOR MEASURING THE QUANTITY OF FLUID IN VESSELS OR CONTAINERS

Karl Saur, Berlin-Reinickendorf, Germany, assignor to Siemens Apparate und Maschinen Gesellschaft mit beschränkter Haftung, Berlin, Germany, a corporation of Germany

Application June 17, 1937, Serial No. 148,803
In Germany June 18, 1936
15 Claims. (Cl. 73—290)



1. An apparatus for measuring liquid level in a closed container, which comprises a compressor adapted to compress a given quantity of air so as to obtain a standard pressure, a pump connected to pump air into said container to build up the pressure therein, means responsive to the pressure in said container for interrupting the operation of said pump when said pressure becomes equal to said standard pressure and means to measure the quantity of air supplied by said pump as an indication of the liquid level in said container.

2,168,107

CONTAINER STRUCTURE WITH INHIBITOR

Arthur E. Stevenson and Sylvester L. Flugge, Chicago, Ill., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application April 19, 1935, Serial No. 17,357. Renewed April 18, 1939
4 Claims. (Cl. 99—181)

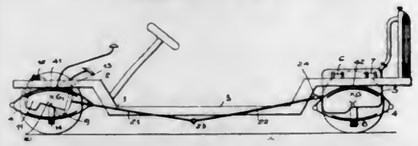
1. A sheet metal container of tin plate for food products, of corrosive character comprising a body portion, ends seamed to the body portion, and a plastic sealing compound within the seams for hermetically sealing the container, said sealing compound being exposed to the food product contained in the container and including a base effective for sealing and having a substance uniformly admixed therewith which operates upon contact with the food product to inhibit the corrosion thereby upon said tin plate, said substance being one of the carbon, sulphur and nitrogen containing compounds consisting of thio-urea, allyl thio-urea, cystine, cysteine, methionine and alkali sulpho-cyanates.

2,168,108

AUTOMOBILE VEHICLE

Guy Bunau-Varilla, Paris, France

Application November 8, 1937, Serial No. 173,507
In France November 17, 1936
5 Claims. (Cl. 180—70)



1. An automobile vehicle which comprises, in combination, a chassis frame, front and rear wheels supporting said chassis frame, a power mechanism consisting of a plurality of cooperating elements, including an internal combustion engine, the whole being divided into two distinct groups of elements of substantially equal respective weights, forming two separate power units, respectively, said chassis frame being of the upswept type, means for rigidly securing the upper part of the unit which includes the engine, above the center of gravity of said unit, to one end of said chassis-frame, with the lower part of said power unit unconnected with said frame, means for rigidly securing the upper part of the other power unit, above the center of gravity thereof, to the other end of said chassis-frame, with the lower part of said second mentioned unit unconnected with said frame, drive means for operatively connecting the second mentioned power unit with the wheels supporting the corresponding end of said chassis-frame, and drive means for interconnecting said two power units including a plurality of shaft elements forming a downwardly convex broken line the intermediate part of which is below the central part of the chassis frame, and universal coupling means for connecting each shaft element to the next one.

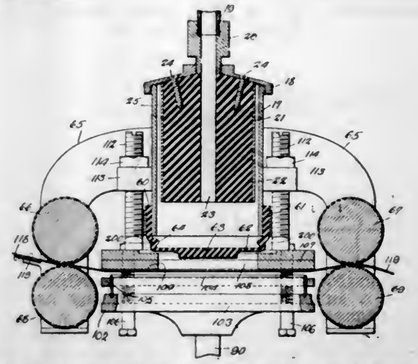
2,168,109

BOTTLE CAPPING MACHINE

George E. West, San Antonio, Tex.

Application August 13, 1938, Serial No. 224,775
8 Claims. (Cl. 226—85)

1. In a receptacle-capping machine, a tubular head, a resilient cap-applying diaphragm extended transversely of the head and provided with an annular bead limiting and regulating the stretching of the bead when the diaphragm is engaged across the mouth of a receptacle, means for moving a receptacle until the diaphragm is engaged across the mouth thereof, and means for admitting fluid pressure to the head to flex the diaphragm lengthwise of the receptacle and about the neck thereof, to apply a cap thereto.



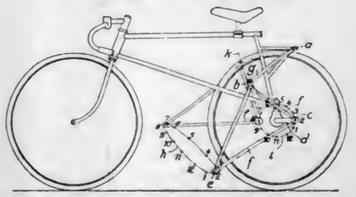
4. In a receptacle-capping machine, a support, a cap-applying means on the support, a cap-cutter movable on the support, toward and away from the cap-applying means, means for feeding a strip of cap material between the cutter and the cap-applying means, a receptacle carrier movable on the support, toward and away from the cap-applying means and the cutter, means for moving the carrier as aforesaid, the last-specified means including a shaft journaled on the support and having an eccentric, means for operating the cutter, and including a slide mounted to reciprocate on the support, a member having a shoulder to be engaged by the eccentric, and means for mounting said member on the slide, for adjustment toward and away from the eccentric.

2,168,110

CHAINLESS CYCLE WITH PEDAL LEVERS

Eugen Woerner, Stuttgart-Feuerbach, Germany

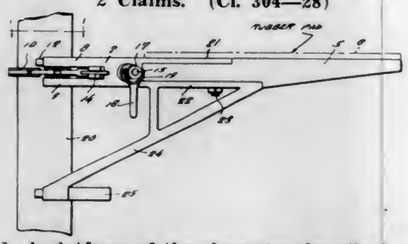
Application June 10, 1938, Serial No. 213,084
In Germany June 30, 1937
6 Claims. (Cl. 280—256)



1. A chainless cycle, comprising a frame, a rear wheel rotatably mounted in the frame, a pair of cranks rotatable coaxially with the rear wheel, a pair of pedal levers, each pedal lever being pivotally connected at the rear to one of the cranks, a pair of pedals, each pedal being mounted at the front end of one of the pedal levers, and means for guiding a point on each pedal lever in an approximately vertical path located above the level of the crank circle and bent rearwards in its upper portion, the pedal connected with the crank that is for the time being

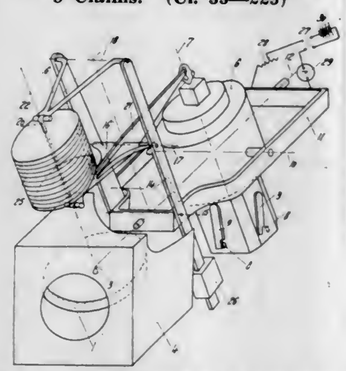
directed towards the rear being at the lowest point of its path when the said crank is horizontal or slightly inclined downwards.

2,168,111
POLE OR TOWER PLATFORM
Roy C. Barnes, Long Beach, Calif., assignor of one-half to William J. Frazier, Manhattan Beach, Calif.
Application July 6, 1938, Serial No. 217,772
2 Claims. (Cl. 304—28)



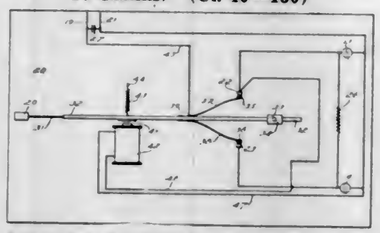
1. A platform of the character described comprising a supporting structure having an upright engageable head portion, and a clamp chain mounted at its upright engageable end for embracing an upright and holding a support thereto, and a downwardly extending upright engageable brace on the support said brace including a horizontally elongated member, and spurs on the ends thereof.

2,168,112
MAGNETIC COMPASS
Jacques Alfred Victor Benard, Paris, France
Application January 29, 1937, Serial No. 123,045
In Luxemburg January 29, 1936
8 Claims. (Cl. 33—225)



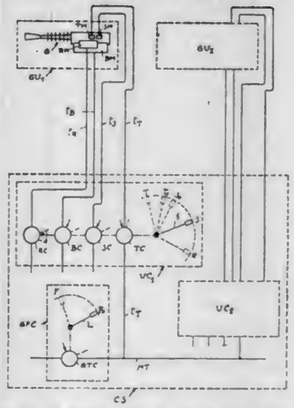
1. In a magnetic compass, a magnetic directional element having a universal pivotal center, a gyro vertical, means mounting said gyro vertical for universal pivotal movement adjacent said element, a solenoid, means supporting said solenoid for pivotal movement, means connecting said gyro and solenoid so that on the one hand the axis of said solenoid is maintained vertical by said gyro with said axis passing through the pivotal center of the element and on the other hand said solenoid is maintained at an invariable distance of said pivotal center irrespective of angular changes of position of the element, a circuit including said solenoid, an ammeter in said circuit graduated in terms of latitude, and an adjustable resistance in said circuit.

2,168,113
ILLUMINATED SIGN APPARATUS AND METHOD
John Gordon Best, Toronto, Ontario, Canada, assignor to General Animated Signs, Limited, Toronto, Ontario, Canada, a company of Ontario, Canada
Application October 17, 1938, Serial No. 235,491
17 Claims. (Cl. 40—130)



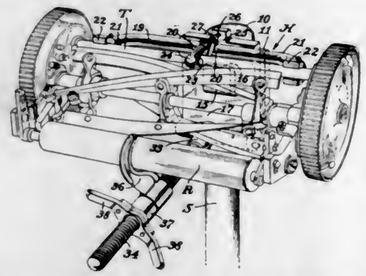
1. Apparatus for illuminating a sign or the like in which different areas are responsive to different light characteristics, comprising a plurality of electric lamp means adapted to produce light of different characteristics, each of said lamp means being connected to one side of a supply line, means comprising periodically operable switching means for completing the circuit through each lamp means in succession and electrical resistance means interconnecting said lamp means in such a manner that, when the circuit to either lamp is completed, both lamps are energized by said line, with the current flow through one of said lamps being materially restricted by said resistance means.

2,168,114
REMOTE CONTROL FOR AUTOMATIC FIREARMS
André Boussel, Courbevoie, France, assignor to Societe Anonyme des Anciens Etablissements Hotchkiss & Cie., Levallois-Perret, Seine, France, a joint-stock company of France
Application June 24, 1936, Serial No. 87,065
In France July 9, 1935
19 Claims. (Cl. 89—1)



1. A control device for a machine gun having a fluid pressure recoil brake, comprising a swingable handle provided with a cam and adapted to assume an unprepared position, a fire selecting position at one side of same and a recocking position at the other side of same; a fluid pressure recocking mechanism, a conduit for feeding same, a spring closed valve in said conduit and adapted to be depressed by said handle cam in recocking position of said handle for causing said mechanism to recock the gun; a safety lock for the gun, a fluid pressure servo-motor for retracting said lock, conduits for feeding said servo-motor and said recoil brake, spring closed valves in the last said conduits and adapted to be depressed by said handle cam as said handle passes from unprepared position to fire selecting position for causing said servo-motor to retract said lock and for filling said recoil brake; a fluid pressure trigger servo-motor, another conduit for feeding same, a spring closed selecting valve in said other conduit and adapted to be depressed by said handle cam in fire selecting position of said handle, a main conduit for feeding said other conduit, a firing valve in said main conduit and thus acting in series with said selecting valve, and a firing lever adapted to open said firing valve, thereby causing said trigger servo-motor to fire the gun when said handle is in fire selecting position and thus after the safety lock has been retracted and the recoil brake has been filled and when the gun is not being recocked.

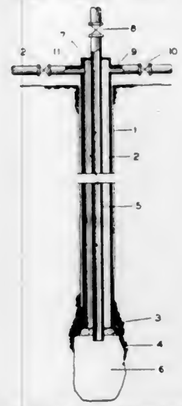
2,168,115
REPAIR BRACKET SUPPORT FOR LAWN MOWERS
Arthur Marvin Collot, Miami, Fla.
Application July 16, 1938, Serial No. 219,636
10 Claims. (Cl. 51—217)



1. In a support of the character described, a substantially rectangular supporting plate mounted on the upper end of a standard, a lug projecting from the supporting plate, a bracket plate having an opening therein adapted for reception of said lug and for mounting and support on the supporting plate, said support adapted to have a lawn mower head clamped on the bracket plate independently of the supporting plate and said bracket plate adapted to have its normal upper edge selectively positioned at one of the sides of the supporting plate for presenting either of the sides or ends of the lawn mower head at the upper side of the supporting plate the cooperative configurations of the supporting plate lug and bracket plate opening being such as to hold the bracket plate in its adjustably supported position.

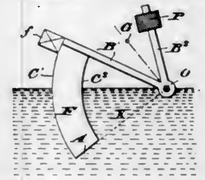
2,168,116
METHOD OF FLOWING OIL WELLS
Wilbur J. Crites and William Bruce Lerch, Bartlesville, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application May 6, 1937, Serial No. 141,146
2 Claims. (Cl. 166—21)

1. In a process of producing oil wells in which the oil has gas in solution and the bottom hole pressure of the well is insufficient to force the oil to the surface of the ground which comprises lightening the column of liquid in the well hole by maintaining the gas in an occluded state in the liquid, the process comprising adding a foaming agent to said liquid while in the well hole,



agitating the liquid and foaming agent while in the well hole with the producing column being closed off and then opening the producing column and allowing the well to flow under its own pressure.

2,168,117
APPARATUS FOR CONTROLLING LIQUID LEVELS
Pierre François Danel, Grenoble, France, assignor to Ateliers Neyret-Beylier & Piccard-Pictet, a corporation of France
Application May 7, 1936, Serial No. 78,514
In France May 14, 1935
7 Claims. (Cl. 61—25)

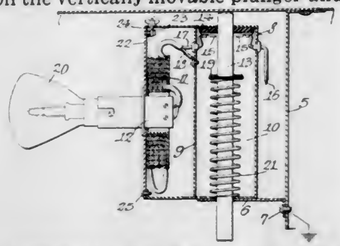


1. A gate for maintaining a constant level in an upstream reach of an open channel, comprising a lever, means for mounting said lever for movement about a horizontal axis extending across said channel, a variably immersible float carried by the free end of said lever, means for opposing the lifting force of said float to maintain the float in unstable equilibrium for a predetermined water level, and a gate leaf carried by said float and extending across said channel.

2,168,118
UTILITY LIGHT
Frank F. Dickson, High Point, N. C.
Application February 2, 1938, Serial No. 188,381
1 Claim. (Cl. 240—8.18)

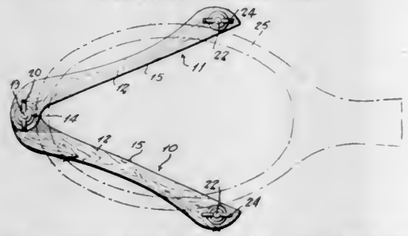
A trouble lamp for positioning under the hood of a motor vehicle, comprising a housing, a partition within the housing dividing the housing into a switch compartment and a reel compartment, contact members within the switch compartment, a cover plate for the housing, a lamp supported on the cover plate, a reel supported on the cover plate, electric wires leading from the lamp and

wound on the reel, said wires being in circuit with the contact members of the switch compartment, a vertically movable plunger operating through the switch compartment, contact members on the vertically movable plunger and adapt-



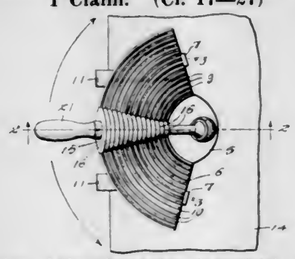
ed to engage the first mentioned contact members completing a circuit to the lamp, a normally open electrical circuit between the contact members of the switch compartment and a source of electricity supply and said cover plate adapted to be removed providing a portable trouble lamp.

2,168,119
RACKET PRESS
Laurance C. Doll, Ithaca, N. Y.
Application May 3, 1939, Serial No. 271,596
7 Claims. (Cl. 273—74)



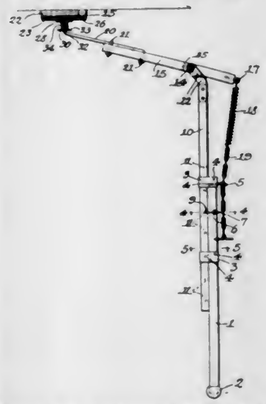
1. A racket press comprising two press members directly pivotally connected together at corresponding ends and free of connections at their other ends, each press member including a pair of bars, the pivotal connection including a clamping bolt for moving the bars into clamping engagement with a racket frame, clamping bolt associated with the free ends of the bars of each clamping member and spring means associated with the clamping bolts and bars for normally holding the bars of each press member separated for reception of a racket frame.

2,168,120
MEAT TENDERER
Napoleon Ethier, Maniwaki, Quebec, Canada
Application September 21, 1937, Serial No. 164,941
1 Claim. (Cl. 17—27)



A device of the character described, comprising a stationary base, a sector shaped plate fixed to said base and formed with arcuate grooves and a concave end, a ball and socket joint pivotally mounted on said base adjacent the concave end of said plate, a shaft connected to said joint for oscillatory movement over a path extending above and in parallelism with the upper face of said plate and angularly disposed relative to the latter, and a frustum shaped roller rotatably mounted on said shaft and formed with circumferentially extending teeth for registry with said grooves for coacting with the latter to tenderize meat and the like interposed between said roller and plate when said shaft and roller are oscillated and said roller rotated.

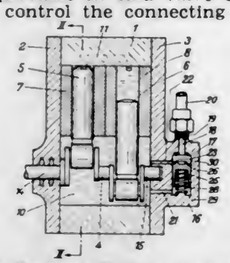
2,168,121
CEILING AND WALL CLEANER
Frederick W. French, Oakland, Calif.
Application May 10, 1937, Serial No. 141,797
1 Claim. (Cl. 306—20)



In a device for cleaning walls and ceilings, a staff, a guiding means on the staff, an extension slidably adjustable in the guiding means, longitudinally of the staff, the staff and the extension having latch parts cooperating to hold the extension in adjusted positions longitudinally of the staff, a lever, a cleaner mounted on the outer end of the lever, a fulcrum element connecting the lever intermediate its ends with the extension, a pull spring, means for connecting one end of the pull spring to the staff, to vary the combined length of said means and the pull spring, and a connection between the opposite end of the pull spring and the inner end of the lever: the extension being removable from the guiding means, the fulcrum element being removable, the pull spring being detachable from the lever, the lever being of substantially the same cross section as the extension, and the connection being disposed entirely within a space of the same cross section as the cross section of the lever, all whereby the lever can be mounted in the guiding means, in place of the extension: the latch parts of the extension being substantially duplicated on the lever, whereby the lever, when taking the place of the extension, may be held in adjusted positions, longitudinally of the staff.

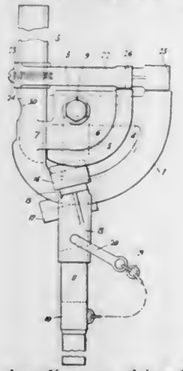
2,168,122
PISTON PUMP
Carl Gausmann, Dessau, Anhalt, Germany, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, Dessau, Anhalt, Germany
Application January 12, 1938, Serial No. 184,667
In Germany January 27, 1937
3 Claims. (Cl. 184—6)

1. In a pump in combination a pump casing, a pump cylinder in said casing, a pump piston reciprocable in said pump cylinder, a crank shaft associated with said pump piston and a crank case accommodating said shaft, a valve chamber and two axially spaced conduits connecting said chamber with said crank case, a liquid feed pipe and a feed conduit connecting said feed pipe with said valve chamber, a valve body forming a piston axially reciprocable in said valve chamber and adapted to control the connecting conduit ad-



joining said feed conduit, a spring tending to force said valve body towards and into closing position relative to said feed conduit and to the connecting conduit adjoining same, the volume of the part of said valve chamber extending between said feed conduit and the connecting conduit adjoining same being larger than the reduction of volume of the interior of the crank case resulting in the rotation of said crank shaft after said last mentioned connecting conduit has been covered by the valve body.

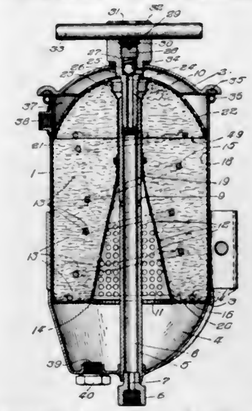
2,168,123
PIPE OR TUBE BENDING MACHINE
John Henry Hawes, London, England
Application September 8, 1936, Serial No. 99,821
In Great Britain May 12, 1936
8 Claims. (Cl. 153—45)



1. In a tube bending machine having a radial sweep arm carrying a grooved member bearing on the tube, a bent up sheet metal former comprising in cross section a semi-circular part and resilient side flanges projecting to the overall diameter of the largest tube which can be fitted into the former, the flanges being splayed slightly so that the groove in the former, for the reception of the pipe being bent, tapers outwardly to receive diametrically different size tubes.

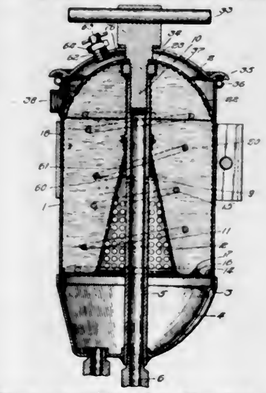
8. For use in a tube bending machine having a radial sweep arm carrying a grooved member bearing on a tube, a former constructed with a groove having resilient outer walls to support the tube, the said resilient walls of the groove permitting the insertion of diametrically different size tubes.

2,168,124
OIL PURIFYING DEVICE
James E. Hurn, La Porte, Ind., assignor to De Luxe Products Corporation, a corporation of Indiana
Application March 16, 1936, Serial No. 69,217
21 Claims. (Cl. 210—131)



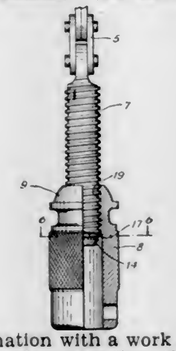
8. A cartridge for an oil filter comprising a dense homogeneous body of fibrous absorbent material packed tightly enough to provide no free channels for oil and to remove substantially completely in passage therethrough asphaltic oxidized materials formed in heated oil, said body having a density markedly less than the density of the absorbent material in it, said body reinforced by a supporting element separate from the body of absorbent material for supporting said body of absorbent material throughout its entire extent against compression under normal oil system pressures.

2,168,125
FUEL OIL FILTER CARTRIDGE
James E. Hurn, La Porte, Ind., assignor to De Luxe Products Corporation, a corporation of Indiana
Application December 7, 1936, Serial No. 114,699
3 Claims. (Cl. 210—131)



1. A filter cartridge for filtering fuel oil comprising a mass of fibrous absorbent cellulosic material packed tightly enough to contain approximately nine ounces of absorbent material for sixty-two cubic inches of space.

2,168,126
PIPE VISE
Henry J. Kane, New Britain, Conn., assignor to The Billings & Spencer Company, a corporation of Connecticut
Application September 11, 1937, Serial No. 163,365
3 Claims. (Cl. 81—19)



1. In combination with a work gripping mechanism, a screw for operating the same, a nut threaded on said screw, stop means removably carried on the periphery of said screw adjacent the free end thereof and engageable by said nut, and means carried by said nut and engageable by the periphery of said stop means as a result of forces exerted by the longitudinal engagement of said nut and stop means for holding said stop means against longitudinal separation from said screw upon longitudinal engagement of said stop means and nut when unscrewing the latter.

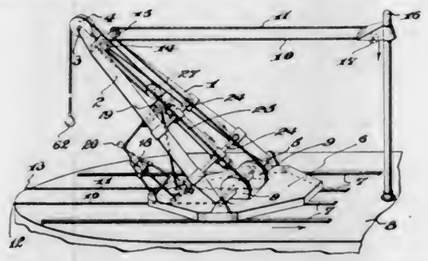
2,168,127
METHOD OF MOLDING POLISHED CASEIN MATERIAL AND POLISHED CASEIN ARTICLES
Daniel Kasen, Newark, N. J.
No Drawing. Application May 26, 1936, Serial No. 81,967
14 Claims. (Cl. 18—47.5)

1. The method of producing a polished molded casein article, comprising subjecting uncured casein material, having a suitable water content for molding in a cool mold, to the action of a polishing chemical solution capable of acting upon the uncured casein material to polish the surface of such material, then heating the polished moldable casein material to render the same plastic, and subjecting the same to pressure within a cool mold to mold the article while preserving the polished surface.

8. The herein described method, comprising subjecting an extruded uncured casein material to the polishing action of a polishing chemical solution capable of acting upon the uncured casein material to polish the surface of the same, and then curing the casein material thus treated.

2,168,128
PORTABLE DERRICK
Bernard Kervarrec, Paris, France
Application January 15, 1937, Serial No. 120,791
In France January 15, 1936
2 Claims. (Cl. 212—8)

1. Movable apparatus for the lifting and manipulation of loads comprising in combination a derrick mounted on a movable platform, at least one multiple transmission cable serving simultaneously as a member for translatory movement and a member for equilibrating the reactions of the top of the derrick, said cable being connected at its ends to two fixed points one of which is arranged substantially at the level of the platform and the other of which is placed substantially at the height of the head of the derrick

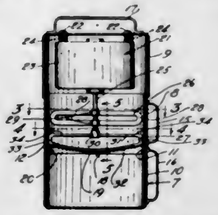


so as to permit the translation of the derrick by the simple winding or unwinding of said cable, said ends of the cable being substantially parallel to thus permit the displacement of the derrick with a substantially constant inclination.

2,168,129
METHOD OF MAKING ALLOYS OF COPPER AND NICKEL
Frank Leverick, Blaby, near Leicester, England, assignor to Follsain Syndicate Limited, Westminster, London, England
No Drawing. Application February 18, 1936, Serial No. 64,582. In Great Britain February 20, 1935
1 Claim. (Cl. 75—135)

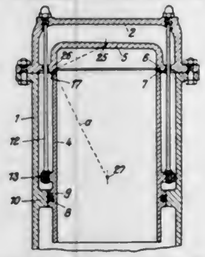
A method of preparing an alloy of copper and nickel which comprises preparation of a paste of lime and niter and methylated spirit, mixing this paste with the nickel, adding this product to the copper and heating the mixture until the metals fuse and form an alloy.

2,168,130
SIFTER
Nona F. Lingle, Flint, Mich.
Application May 4, 1938, Serial No. 206,053
6 Claims. (Cl. 209—283)



1. A sifter including a tubular section open at each end, a sieve arranged in said section, a removable cup-shaped section mounted on and depending from said tubular section, a rotatable operating shaft extending into said tubular section, an agitator bodily carried with said shaft and traveling against the upper face of said sieve, a mixer bodily carried with such shaft arranged in said tubular section above said agitator, an inverted cup-shaped carrier removably mounted on and extending upwardly from said tubular section, and an electric motor within and suspended from said carrier and connected to and driving said shaft.

2,168,131
INTERNAL COMBUSTION ENGINE
Otto Mader, Dessau-Ziebigk, Germany, assignor to Junkers Flugzeug- und Motorenwerke Aktiengesellschaft, Dessau, Germany
Application July 22, 1937, Serial No. 155,013
In Germany August 3, 1936
7 Claims. (Cl. 123—173)



4. In an internal combustion engine having a liquid cooled cylinder, a cover, and a liner in said cylinder, said cover and liner having contact surface edges, at least one of said edges having a substantially spherical surface, the center point of which lies within said liner and on the axis thereof, means engaging said surfaces, and means for holding said surfaces in contact with said packing means.

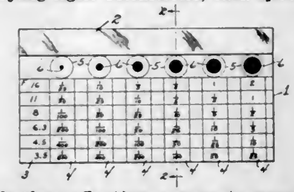
2,168,132
TRAP
Nick J. Marshall, Sidney, Ohio
Application August 11, 1937, Serial No. 158,574
2 Claims. (Cl. 43—87)



1. In a trap structure, an elongated member, a spring extending longitudinally of said member and having one end anchored to said member and the other end provided with a loop, a rockable trigger mounted on one end of said member, said trigger being provided with a pintle, said member being provided with a shank, an elongated element carried by the said shank, said element being provided with an eye, and a trigger release member carried by said eye, said trigger release member comprising a loop and a part for actuation by an animal, said last-mentioned loop being disposed over said pintle.

2,168,133
EXPOSURE METER
Ray J. Monner, Rapid City, S. Dak., assignor of one-third to Arthur C. McIntosh and one-third to George P. Hurst, both of Rapid City, S. Dak.
Application May 16, 1938, Serial No. 208,241
1 Claim. (Cl. 88—23)

An exposure meter for use with a camera including a diaphragm and a shutter, and said meter comprising a plate having a chart thereon including columns of characters representing the various degrees of camera diaphragm openings and shutter speeds, reflecting means arranged in strip formation along the upper portion of the plate, measuring means on the plate and including circles and spots arranged in row formation parallel with and below the reflecting means and each spot being disposed concentrically within a circle, each circle being of the same diameter and representing the iris of a human eye, said spots each representing the pupil of the human eye and gradually increasing in diameter from one end of the row to the other to correspond with the various diameters of the pupil under varying light conditions, said spots cooperating with the reflecting means to ascertain the diameter of the pupil of the eye of a user of the meter, and said columns of characters being arranged below the spots and with respect thereto and with each other for cooperative association of the characters and spots to ascertain the correct settings of the diaphragm and the shutter.

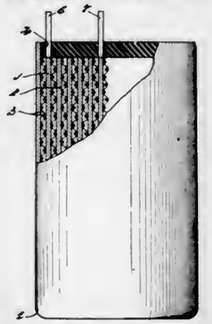


2,168,134
ALUMINUM BODY AND METHOD OF MAKING SAME
Friedrich Pavelka, Klosterneuburg, near Vienna, Austria, assignor to Radiowerk E. Schrack A. G., Vienna, Austria
Application June 19, 1937, Serial No. 149,265
In Austria July 1, 1936
5 Claims. (Cl. 148—4)



1. In the manufacture of a porous aluminum foil of large reactive surface area, the step of rolling an aluminum sheet in a few steps and without interstep recrystallizing heat treatment to reduce its thickness at least 90% and to reduce the crystal grain size to less than 0.001 mm.

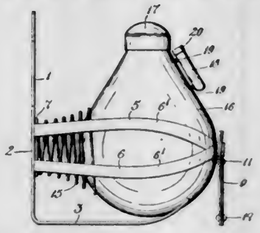
2,168,135
ELECTROLYTIC CONDENSER
Friedrich Pavelka, Klosterneuburg, near Vienna, Austria, assignor to Radiowerk E. Schrack Aktiengesellschaft, Vienna, Austria
Application June 19, 1937, Serial No. 149,266
In Austria July 1, 1936
9 Claims. (Cl. 175—315)



1. An electrode for an electrolytic condenser

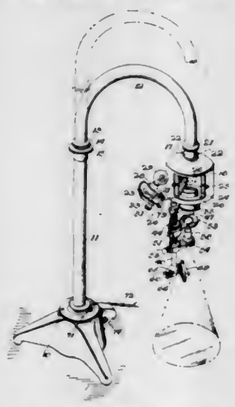
comprising an etched body of aluminum containing less than 0.05% of impurities, the crystal grain size of the aluminum being less than 0.001 mm.

2,168,136
FIRE EXTINGUISHING BOMB AND BRACKET THEREFOR
Annie F. Playfair, Winnipeg, Manitoba, George W. F. Brisbin, Dominion City, Manitoba, and Rowland C. Jordan, deceased, late of Winnipeg, Manitoba, Canada, by Alice M. Jordan, executrix, Winnipeg, Manitoba, Canada; said Alice M. Jordan assignor to said George W. F. Brisbin and said Annie F. Playfair
Application September 14, 1936, Serial No. 100,794
In Canada September 13, 1935
3 Claims. (Cl. 169—26)
(Granted under the provisions of sec. 14, act of March 2, 1927; 357 O. G. 5)



1. The combination with a vessel containing a fire extinguishing solution from which chlorine may be liberated, of a holder, resilient embracing arms adapted partially to surround said vessel, spring means interposed between said vessel and said holder, means for permitting said arms to part upon the surrounding air reaching a predetermined temperature, and a breakable container in association with said vessel containing a chemical designed to neutralize said chlorine which may be liberated from said fire extinguishing solution.

2,168,137
MICROPROJECTOR
Ray P. Porter, El Reno, Okla.
Application August 30, 1937, Serial No. 161,673
10 Claims. (Cl. 88—24)

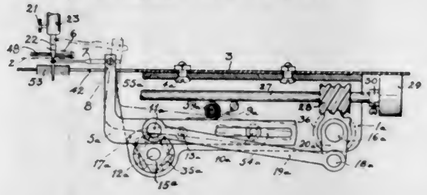


1. A micro-projector including a housing, an adjustable light source mounted therein, a condenser mounted to cooperate with the light source, means for adjusting the light source transversely with respect to the condenser, a door for the housing carrying said light source and said adjusting means and adapted to expose the same externally of the housing when the door is opened, a supporting element, a carrier mounted on said element and provided with an objective to cooperate with the condenser, and a specimen stage adjustable on said element along a path parallel to the optical axis between the condenser and objective independently thereof.

2,168,138
METHOD OF MANUFACTURING CHICKEN FEED AND THE COMPOSITION OF THE SAME
Hyosuke Sakurai, Ohtakamachi, Chita District, Aichi Prefecture, Japan
No Drawing. Application November 18, 1936, Serial No. 111,486
4 Claims. (Cl. 99—4)

1. A method of manufacturing chicken foods, such as co-called chick mashes, chick starters and the like, characterized in that dried raw herring is mashed and ground together with maize so that the dried raw herring may be crushed into small pieces without caking by the aid of maize and the ground mixture is mixed with a proper amount of middlings of wheat, barley or oats as the essential ingredients.

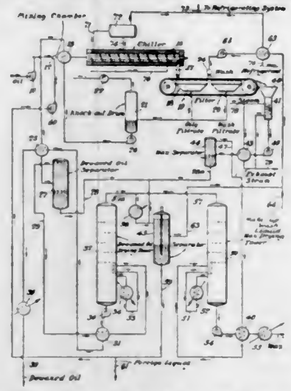
2,168,139
WHIP-STITCHING ATTACHMENT FOR SEWING MACHINES
James Torsten Sandberg, Stockholm, Sweden
Application January 16, 1936, Serial No. 59,474
In Sweden January 17, 1935
5 Claims. (Cl. 112—162)



4. A whip-stitching attachment for sewing machines comprising a supporting frame, a driven shaft journalled within said frame, a bar mounted for reciprocation upon said frame, a whip-stitching thread carrier supported by one end of said bar, a rod connecting said bar with said driven shaft, a cam disc mounted for rotation upon said supporting frame and means for operatively connecting said cam disc with said bar whereby through the reciprocation of the latter a vertical movement will be transmitted to said whip-stitching thread carrier.

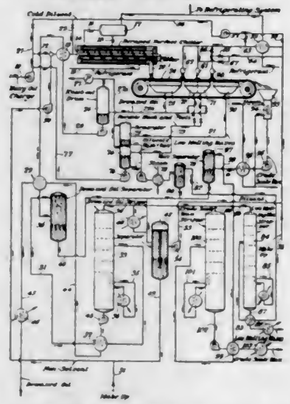
2,168,140
OIL DEWAXING
August Henry Schutte, Westfield, N. J.
Application February 25, 1938, Serial No. 192,534
10 Claims. (Cl. 196—18)

1. The process of dewaxing a wax-bearing mineral lubricating oil which comprises emulsifying the oil with a diluent and an immiscible liquid having a crystal formation when frozen, chilling the mixture to such a low temperature as to precipitate the wax and freeze the immiscible liquid, filtering the oil from the precipitate with the precipitate acting as a filter aid, washing the precipitate with an oil diluent, separating the oil



from the diluent, and separating the immiscible liquid and diluent from the wax.

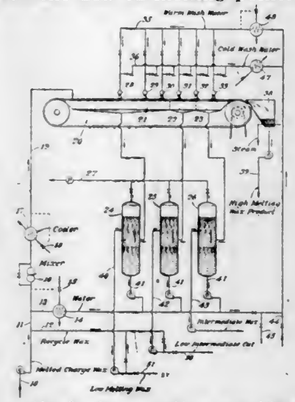
2,168,141
METHOD FOR SEPARATING WAX
August Henry Schutte, Westfield, N. J.
Application May 19, 1938, Serial No. 208,910
7 Claims. (Cl. 196—18)



1. The method of dewaxing oils and recovering different melting point waxes, which comprises the steps of emulsifying the oil with a non-solvent liquid, chilling the emulsion, filtering the emulsion to separate the wax from the oil, and washing the wax while in the dispersed condition at controlled temperatures to obtain different melting point products of substantially oil free nature.

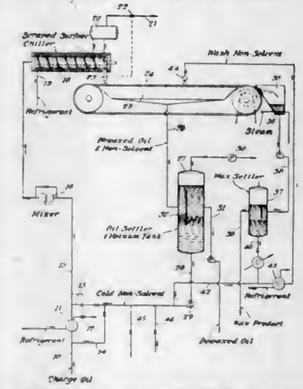
2,168,142
METHOD OF SEPARATING WAX
August Henry Schutte, Westfield, N. J.
Application May 19, 1938, Serial No. 208,911
9 Claims. (Cl. 196—20)

1. The method of separating specified melting point waxes from a mixture of various melting point waxes, which comprises the steps of intimately mixing the wax mixture with a non-solvent liquid and forming a fine dispersion having a large interfacial area between the non-solvent and the wax, and thereafter cooling, while maintaining the wax mixture in the dispersed form to precipitate substantially all but the low melting point wax and continuously removing liquid waxes by contact with wash liquids at successively increasing temperatures compatible with the desired melting points.



3. The method of separating specified melting point waxes from a mixture of various melting point waxes, which comprises the steps of intimately mixing the wax with a non-solvent liquid to form an emulsion therewith, cooling the emulsion to precipitate substantially all of the wax, continuously filtering the wax at a pressure differential and at progressively increasing temperatures, removing the filtrate at the respective temperature increases, and separating the non-solvent from the desired melting point waxes.

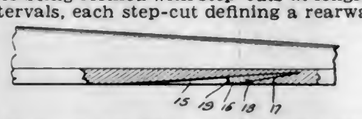
2,168,143
OIL DEWAXING
August Henry Schutte, Westfield, N. J.
Application May 19, 1938, Serial No. 208,912
8 Claims. (Cl. 196—18)



2. The method of removing crystalline wax from oil which comprises emulsifying the oil with a non-freezing non-solvent liquid, chilling said emulsion to precipitate the wax, filtering the chilled emulsion and removing the wax as a filter cake.

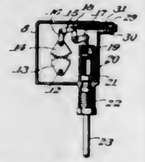
2,168,144
SNOW GLIDER OR SKI
Einar Wennerstrom, East Rochester, N. Y.
Application May 5, 1938, Serial No. 206,254
1 Claim. (Cl. 280—11.13)
In a snowglider, a body formed on its bottom

with substantially parallel sliding surfaces, said surfaces being formed with step-cuts at longitudinal intervals, each step-cut defining a rearwardly



facing shoulder for pushing rearwardly against snow in the step-cut, said shoulder being formed with a slot, and a durable material insert in said slot and exposed on said shoulder.

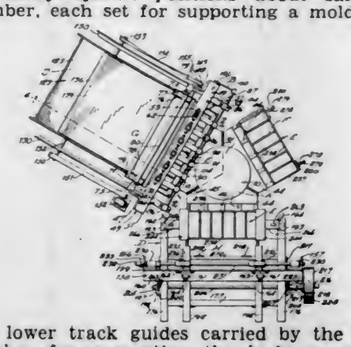
2,168,145
PRESSURE GAUGE FOR AUTOMOBILE TIRES
Elijah J. Willis, Morehead City, N. C., assignor of one-half to David E. Oglesby, Farmville, N. C.
Application October 6, 1937, Serial No. 167,652
2 Claims. (Cl. 73—111)



2. An air pressure gauge of the character described, comprising a housing having a substantially rectangular rear portion and a forward circular dial portion, a dial scale visibly disposed within said dial portion of the housing, a pointer located within the dial portion of the housing and movably mounted in cooperative relation to said dial scale, geared actuating means for said pointer located within the rectangular rear portion of the housing and including a bellcrank actuator, a cylinder located within said rear portion of the housing and communicable with an opening in one wall of the housing for intake of air under pressure, a piston in said cylinder in opposed relation to the air intake opening and having an axial stem projected beyond the inner end of the cylinder, said stem being pivotally attached to one arm of the bellcrank actuator, the housing having a lateral tubular extension beyond the inner end of said cylinder, an adjusting screw swiveled in said lateral tubular extension, a nut threaded on said screw within said extension and movable longitudinally but without rotation therein whereby to be adjusted longitudinally by rotation of the swiveled screw and thereby held in its adjusted position, and a tension spring connected at one end to said nut and at its opposite end to the bellcrank actuator arm opposite to that which is attached to the stem of the piston in said cylinder.

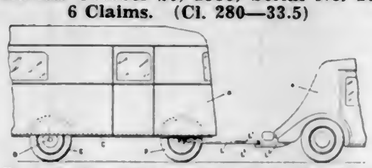
2,168,146
MOLDING MACHINE FOR MOLDING BUILDING UNITS
George E. Wilson, Fort Lauderdale, Fla., assignor, by direct and mesne assignments, to Wilson Block and Brick Machine Company, Fort Lauderdale, Fla., a corporation of Florida
Application January 28, 1937, Serial No. 122,725
5 Claims. (Cl. 25—41)

1. In a block molding machine, a mold carrier including a fixed base, a journal member fixed on said base and projecting upwardly therefrom, a tubular body member surrounding said journal member, a plurality of sets of parallel arms carried by and arranged in circumferentially spaced positions about said body member, each set for supporting a mold, upper



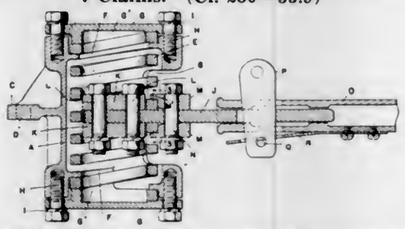
and lower track guides carried by the journal member for supporting the body member for rotation on the journal member, and means to rotate the body member.

2,168,147
MOTOR VEHICLE TRAILER
David D. Arehart, Flint, Mich., assignor to Palace Travel Coach Corporation, Flint, Mich., a corporation of Michigan
Application October 26, 1936, Serial No. 107,683
6 Claims. (Cl. 280—33.5)



1. In a trailer, the combination of a body, an angularly adjustable supporting wheel therefor, an axle for said wheel, a bifurcated draft connection embracing said wheel and engaging said axle, an open frame having segmental portions concentric with a vertical axis centrally intersecting the axis of said wheel, bearing means engaging said segmental portions in a horizontal plane adjacent to said axle to permit relative rotation thereof, one of said relatively rotatable members being mounted on said body, and resilient supporting means between the other of said relatively rotatable members and said wheel.

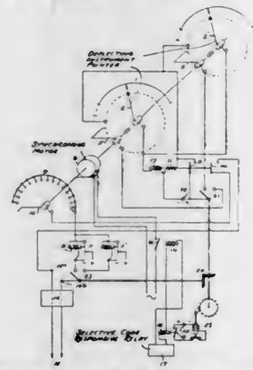
2,168,148
DRAFT APPARATUS FOR TRAILERS
David D. Arehart, Flint, Mich., assignor to Palace Travel Coach Corporation, Flint, Mich., a corporation of Michigan
Application November 16, 1936, Serial No. 111,167
7 Claims. (Cl. 280—33.9)



5. A draft rigging for connecting vehicles comprising a member adapted for rigid attachment to one of said vehicles a helical spring mounted on

said member with its axis extending transversely thereof, said spring having its opposite end convolutions held in rigid relation to each other, and a draft bar attached to the central portion of said spring.

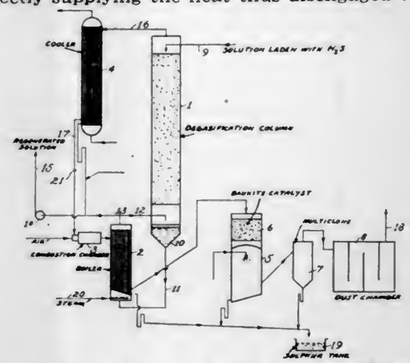
2,168,149
TELEMETERING
August Arnold, Brussels, Belgium, assignor to General Electric Company, a corporation of New York
Application June 30, 1937, Serial No. 151,202
In Germany October 22, 1936
4 Claims. (Cl. 177—351)



1. A transmitter for a telemetering system adapted to utilize a communication channel of a telephone system comprising in combination, an indicating instrument having a movable pointer carrying a contact, a stationary contact at the lower end of the scale of said instrument, a rotatable contact adapted to cooperate with said stationary contact and said pointer contact, a motor driving said rotatable contact, a second rotatable contact also driven by said motor, a plurality of arcuately spaced stationary contacts cooperating with said second rotatable contact, a pair of input terminals of a communication system, a buzzer, a relay having normally open contacts and having opening and closing windings and a holding circuit, and a source of current with connections to said relay windings and said first rotatable contact, said communication-system input terminals, buzzer, second rotatable contact, spaced stationary contacts, and normally open relay contacts being connected in a circuit, said lower-scale-end stationary contact being connected to said closing winding and said pointer contact being connected to said opening winding, whereby a plurality of tone impulses depending in number upon the reading of the said instrument is transmitted.

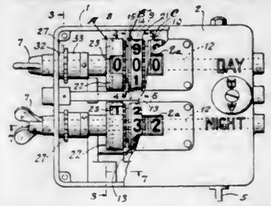
2,168,150
DEGASIFICATION OF ALKALINE LIQUIDS LADEN WITH HYDROGEN SULPHIDE
Hans Baehr and Karl Braus, Leuna, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application June 12, 1937, Serial No. 147,895
In Germany June 24, 1936
3 Claims. (Cl. 23—177)

1. A continuous process of degasifying an alkaline liquid capable of absorbing hydrogen sulphide in the cold and giving it off on heating, which liquid is laden with hydrogen sulphide, which process comprises burning the hydrogen sulphide expelled from said liquid with a gas comprising elementary oxygen at least to sulphur and directly supplying the heat thus disengaged to a



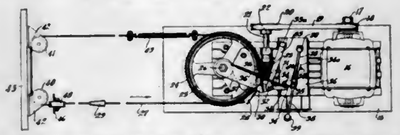
further amount of said liquid to be degasified, the bulk of the heat for said degasification being supplied by the hot gases of combustion of said hydrogen sulphide.

2,168,151
COUNTER
Harvey N. Bliss, Windsor, Conn., assignor to Veeder-Root, Incorporated, a corporation of Connecticut
Application April 20, 1934, Serial No. 721,498
Renewed March 21, 1938
22 Claims. (Cl. 235—144)



1. The combination with a counter having a series of operatively connected counter units, each having a number wheel, and resetting mechanism for said number wheels, of a rotatable shutter coaxial with one of said units and exposing the numbers on the number wheel of said unit only during counting and in the zero position of said resetting mechanism.

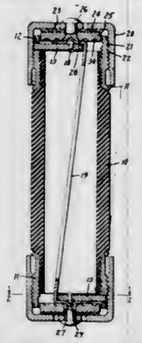
2,168,152
GARAGE DOOR OPERATOR
Charles A. Brauchler, Canton, Ohio
Application April 8, 1937, Serial No. 135,735
8 Claims. (Cl. 200—47)



1. A reversing switch for a motor-driven appliance including a reversing motor and a flexible member movable in either direction thereby, said switch comprising fixed contact members and a movable contact member cooperating therewith, a pivoted yoke for operating the movable contact member and a spaced, oppositely disposed

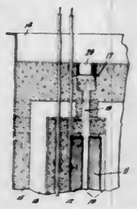
pair of conical limit stops upon the flexible member, each limit stop being adapted for swinging the yoke upon its pivot when moving in one direction and for sliding under the yoke without moving the same when moving in the other direction.

2,168,153
RENEWABLE FUSE
George R. Brown, Stratford, Conn., assignor to General Electric Company, a corporation of New York
Application March 23, 1938, Serial No. 197,652
7 Claims. (Cl. 200—131)



1. In a fuse structure, a tubular casing, a threaded ferrule mounted at one end of said casing, said ferrule being provided with a semicircular slot, a supporting element slidable in said slot transversely of said casing and partially closing the end of said casing, a cap threaded on said ferrule and a fuse link disposed in said casing and having a bent-over end clamped between said supporting element and said cap as said cap is threaded on said ferrule.

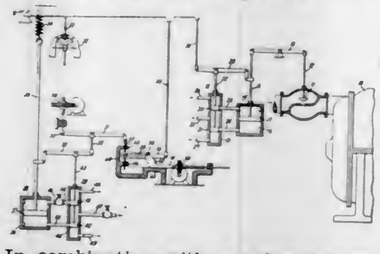
2,168,154
TRANSFORMER
Guglielmo Camilli, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application March 16, 1938, Serial No. 196,239
6 Claims. (Cl. 175—361)



1. The combination of a transformer, a one-piece concrete casing surrounding said transformer and intimately conforming to its surface, and a thin film of insulating liquid surrounding the transformer between the transformer and casing, said casing being spaced from the transformer only by the liquid film.

3. A method of producing a concrete-encased transformer, said method including the steps of coating a transformer with a hardened film, casting a concrete casing around the film-coated transformer, melting and draining out said film, and filling the space between the transformer and the concrete casing with an insulating liquid.

2,168,155
GOVERNING SYSTEM FOR ELASTIC FLUID ENGINES
Reed J. Caughey, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 12, 1938, Serial No. 190,252
6 Claims. (Cl. 264—4)



1. In combination with a prime mover having a valve means for controlling the supply of actuating substance thereto, a motor for moving the valve means, control means for the motor, a speed governor driven by the prime mover for actuating the control means, a second motor operatively connected to said speed governor for correcting said speed governor for load changes, control means for said second motor, means including a lever pivoted intermediate its ends connecting said last mentioned control means with said speed governor, said intermediate pivot being slidably arranged for adjusting the degree of actuation of said last mentioned control means by said speed governor.

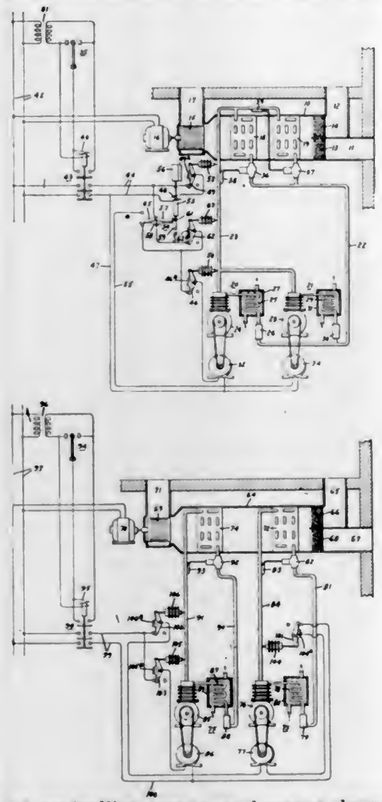
2,168,156
CAPACITOR COMPOSITION
Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
No Drawing. Application July 30, 1938, Serial No. 222,300
7 Claims. (Cl. 175—315)

1. A composition for use in capacitors comprising an alcohol of the furan type and an ionogen.

2,168,157
FLUID COOLING SYSTEM
Harry R. Crago, Verona, N. J., assignor to General Electric Company, a corporation of New York
Application December 23, 1937, Serial No. 181,274
11 Claims. (Cl. 62—4)

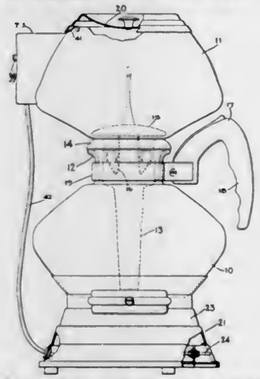
1. A fluid cooling system including a refrigerant evaporator, means including two condensing units for supplying refrigerant to said evaporator and for withdrawing refrigerant from said evaporator, each of said condensing units including means dependent upon a predetermined pressure of refrigerant withdrawn from said evaporator for stopping the operation of said unit, and means dependent upon concurrent operation of said units and responsive to a pressure of said withdrawn refrigerant greater than the predetermined pressure at which the operation of either of said units is stopped by said last-mentioned means for stopping the other of said units.

7. A fluid cooling system including two refrigerating machines, each of said machines having an evaporator, means for circulating a fluid to be cooled first over one of said evaporators and then over the other of said evaporators, means for controlling said machines, means for delaying the starting of one of said machines for a predetermined interval of time after operation



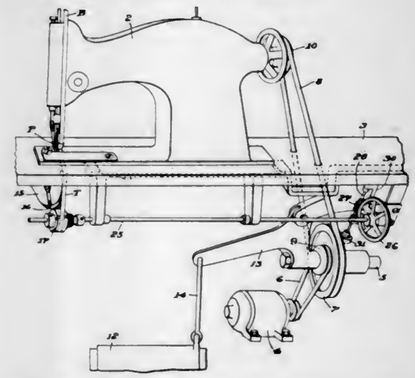
of said controlling means, and means dependent upon a predetermined load on the other of said machines for stopping said one of said machines.

2,168,158
COFFEE MAKER
Chester I. Hall, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 3, 1936, Serial No. 88,765
6 Claims. (Cl. 219—43)



1. A coffee maker comprising a water heating vessel, a coffee steeping vessel in liquid communication with said water heating vessel, means for heating water in said heating vessel to transfer it to said steeping vessel, and a thermostat arranged to be suspended on the outer wall of said steeping vessel so as to be removed physically from contact with the infusion in the steeping vessel and so that it responds to heat energy transmitted from the infusion through the wall of said steeping vessel, and means operated by said thermostat for deenergizing said heating means when said thermostat attains a predetermined high temperature.

2,168,159
FEEDING MECHANISM FOR TAPE APPLYING MACHINES
Robert A. Hartt, Lynn, Mass.
Application January 8, 1938, Serial No. 184,008
7 Claims. (Cl. 12—51)



1. In a machine for applying reinforcing tape to parts of shoe uppers, the combination with tape applying instrumentalities, of means for supplying said tape to said instrumentalities comprising means for supporting a supply roll of said tape, a feed roll positioned immediately beside and in contact with said supply roll and around which the tape is drawn from the latter roll so that the rotation of the feed roll pries the tape off the supply roll, means for guiding the tape from said feed roll to said instrumentalities, and mechanism for driving said feed roll in a predetermined speed relationship to the operation of said applying machine, said guiding means, said feed roll and the means for supporting said supply roll being constructed and arranged to cause the supply roll to remain constantly in peripheral engagement with said feed roll notwithstanding the reduction in its diameter due to the withdrawal of tape therefrom.

2,168,160
PRODUCTION OF PHENOL-ALDEHYDE-LIGNIN RESINS
Carroll A. Hochwalt and Mark Plunguian, Dayton, Ohio, assignors to The Mead Corporation, Chillicothe, Ohio, a corporation of Ohio
No Drawing. Application April 9, 1936, Serial No. 73,517
2 Claims. (Cl. 260—53)

1. The method of preparing a water-resistant resinous material for use in molding which comprises reacting spent sulfite digestion liquor of acid reaction with an alkaline material to remove sulfonic acid compounds therefrom and to convert the lignin of said liquor to one of alkaline

reaction, effecting a condensation reaction of said alkaline lignin material with a phenolic body and an aldehydic material in the presence of a catalyst, to provide a potentially reactive thermosetting resinous molding material.

2,168,161
PRODUCTION OF CARBOXYLIC ACID AMIDES

Heinrich Hopff, Ludwigshafen-on-the-Rhine, Hans Kellermann, Mannheim, and Adolf Freytag, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application June 19, 1937, Serial No. 149,208. In Germany June 23, 1936

9 Claims. (Cl. 260—557)

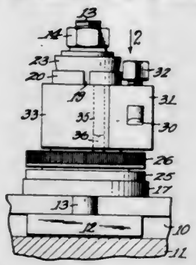
1. The process for the production of carboxylic acid amides which comprises causing a carbamic acid chloride and an anhydrous condensing agent of the Friedel-Crafts' type to act on a compound selected from the class consisting of the aliphatic and cycloaliphatic hydrocarbons and their halogen substitution products.

2,168,162
TOOL POST AND HOLDER

John R. Jackson, Boston, Mass.

Application January 31, 1938, Serial No. 187,787

2 Claims. (Cl. 82—36)



1. In a tool post, the combination with a base and rod projecting vertically upwardly therefrom, of a clamping member having a central passage for receiving the rod and provided with an upwardly extending cylindrical diametrically slotted member having an external clamping surface, means for expanding said clamping surface, a tool holder surrounding said member, a disc surrounding the bottom of said clamping surface having a radial pin extending into the slot in said member for holding it against rotation, and a knurled nut at the bottom of said clamping surface screwthreadedly connected with said disc for adjusting the elevation of the tool holder.

2,168,163
PUBLIC ADDRESS SYSTEM

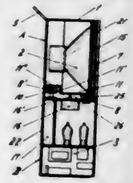
Leone Kamenarović, Milan, Italy, assignor to Fabbrica Italiana Magneti Marelli Società Anonima, Milan, Italy, a corporation of Italy

Application April 6, 1938, Serial No. 200,537

In Italy April 9, 1937

9 Claims. (Cl. 179—1)

1. In a portable public address system, a container, a block-shaped unit including a loudspeaker and adapted to occupy a portion of the space within said container, a second block-shaped unit including an electron tube amplifier and adapted to occupy the remaining space in said container and outer parts carried by one of said block-shaped units and projecting from its face intended to be adjacent to a face of said second named unit when said units are located within said container, the face of said second



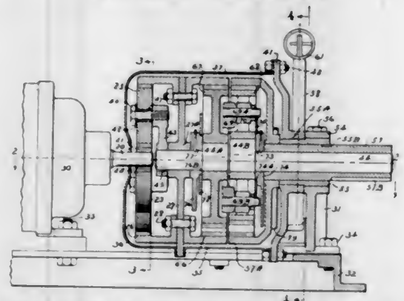
named unit intended to be adjacent to said first named unit when said units are located in said container providing recesses adapted to receive said projecting parts.

2,168,164
SPEED REDUCER

John W. Kittredge, New York, N. Y.

Continuation of application Serial No. 34,079, July 31, 1935. This application November 6, 1937, Serial No. 173,251

21 Claims. (Cl. 74—305)



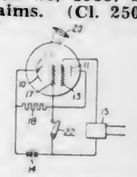
1. A speed reducer comprising a motor shaft; a bearing; a reaction member; a gear connection from said motor shaft to said reaction member, said reaction member having one end adjacent said motor shaft and supported by said shaft through said gear connection, and having its opposite end journaled on and supported by said bearing, and said reaction member being rotatable on said motor shaft and said bearing through a partial revolution; a driven member; a drive connection through the gear connection aforesaid from said motor shaft to said driven member; a yielding member in line with said bearing; and a connection from said yielding member to said reaction member.

2,168,165
CONTROL DEVICE

Lewis R. Koller and Ralph P. Johnson, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York

Application March 26, 1938, Serial No. 198,339

5 Claims. (Cl. 250—27)



2. In combination, an electron emissive cath-

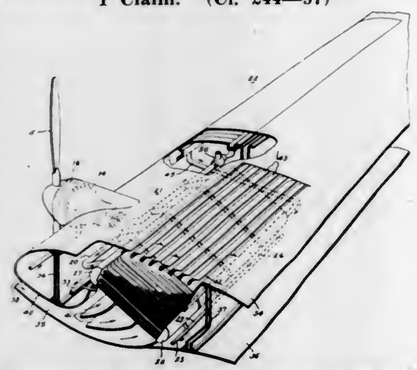
ode, an electrode for emitting secondary electrons in response to the impingement thereon of primary electrons from said cathode, a grid interposed between the cathode and the secondary emission electrode and electrically connected to the latter, a grid-like anode between the grid and the secondary emission electrode for receiving secondary electrons from the latter, a load device connected in circuit with the anode, means for varying the primary electron current, the said means being responsive to a controlling influence which tends to approach a predetermined critical value, and means including a resistance connecting the cathode to the grid and the secondary emission electrode for making the potential level of the latter elements predominantly a function of the primary electron current, the resistance being such that upon the attainment of the said predetermined value of the controlling influence the potential of the grid becomes effective completely to block the flow of primary electrons and thus to prevent the further supply of current to the load device.

2,168,166
HEAT EXCHANGE APPARATUS

Anthony J. Larrecq, Beach Bluff, Mass., assignor to General Electric Company, a corporation of New York

Application January 22, 1938, Serial No. 186,348

1 Claim. (Cl. 244—57)



In combination, an aeroplane, an elastic fluid turbine for propelling said aeroplane, heat exchange apparatus for condensing the exhaust therefrom, said apparatus comprising a pair of condenser units, the first condenser unit of said pair being disposed along a portion of the leading edge of said wing and having an outer wall constituting a part of the wing surface and conforming with the contour of the remainder of the wing surface and an inner wall secured thereto, upper and lower headers in said first condenser unit, a plurality of fluid passages defined by said walls communicating between said headers, the second condenser unit of said pair disposed within the central portion of said wing between the upper and lower surfaces thereof and comprising an upper and a lower header having a plurality of extended-surface condenser tubes therebetween, an after-cooler including a plurality of extended-surface tubes communicating with said lower header of said second unit for receiving non-condensables therefrom, a conduit for conducting condensate and non-condensables from the lower header of said first unit to the lower header of said second unit, a conduit for conducting condensate from said lower header of said second unit, a conduit for conducting non-condensables from said after-cooler and a passage through said wing for conducting cooling air into contact with the condenser tubes of said second unit.

2,168,167
PROCESS OF PREPARING ALKYL AND ARALKYL HALIDES

Otto Leuchs, Wuppertal-Elberfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application January 27, 1937, Serial No. 122,576. In Germany February 1, 1936

4 Claims. (Cl. 260—651)

1. A process for preparing alkyl and aralkyl halides which comprises reacting a compound of the group consisting of alkyl and aralkyl ethers with a hydrogen halide in the presence of a heterocyclic nitrogen compound selected from the group consisting of pyridine, piperidine and quinoline.

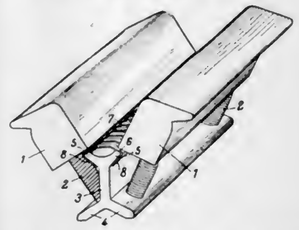
2,168,168
CLOSING DEVICE FOR BELT FASTENERS

Curt Matthaei, Offenbach-on-the-Main, Germany

Application January 15, 1937, Serial No. 120,773

In Germany February 28, 1936

3 Claims. (Cl. 1—49.4)



1. Device for inserting wire staples of the hooked limb type used as belt fasteners, comprising a support for said staples, a pressure jaw, and flexible as well as expanding spring means fastened to said support and said jaw, extending substantially in the direction of said limbs and freely holding said jaw in position relatively to said support.

2,168,169
PROCESS OF TREATING PHOSPHATIC ORES

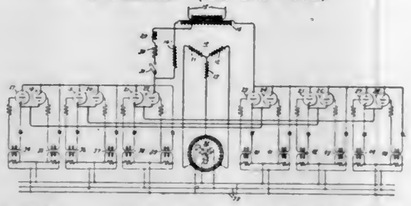
Oskar Meyer, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application November 27, 1936, Serial No. 112,992. In Germany December 5, 1935

4 Claims. (Cl. 23—22)

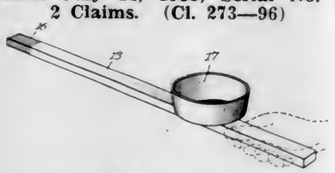
1. A process of treating pig iron slags containing phosphates and vanadates, which comprises admixing with said comminuted slag calcium fluoride and calcium oxide both in proportions adapted to cause the formation, with the phosphoric acid radicles present, of a sparingly soluble double salt of hydrofluoric acid and phosphoric acid, roasting such mixture under conditions ensuring the conversion of the vanadium compounds into V_2O_5, subsequently lixiviating such roasted mixture with the aid of a from weakly acid to weakly basic solution adapted to dissolve the metal values without dissolving the phosphate compound formed, and recovering vanadium compounds from the liquor thus obtained.

2,168,170
CONTROL SYSTEM
Albert H. Mittag, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 31, 1938, Serial No. 199,154
8 Claims. (Cl. 172—274)



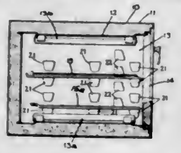
2. The combination comprising a source of single phase alternating current, a dynamo-electric machine having a field winding and a plurality of phase windings, an electric valve converting apparatus connected to said source for supplying polyphase alternating current to said phase windings, and means for supplying single phase alternating current to said field winding for starting said electric valve converting apparatus and said machine.

2,168,171
GAME
Arthur L. Rausher, Chicago, Ill.
Application July 14, 1938, Serial No. 219,235
2 Claims. (Cl. 273—96)



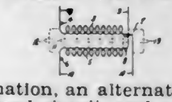
1. A playing stick for striking the overhanging portions of a gaming object for projecting the same into the air, said stick being straight and rectangular in cross-section throughout its length, a rubber tip on the striking end of said stick, and a receptacle opening upwardly on said stick adjacent to its opposite end and adjacent to the hand of the operator when the stick is in use, said receptacle being adapted to catch the projected object.

2,168,172
CABINET RACK
Gregory L. Rees, La Grange, Ill., assignor to Edison General Electric Appliance Company, Chicago, Ill., a corporation of New York
Application September 11, 1936, Serial No. 100,283
4 Claims. (Cl. 211—143)



1. In an electric oven compartment, a sliding shelf structure comprising a series of protuberances formed outwardly from the stock of the side walls of said compartment spaced at intervals from the front to the rear of the compartment, the protuberances of each side wall have flat upper bearing surfaces in substantially the same plane, an openwork rack mounted on said bearing surfaces for sliding movement forward of said compartment, each side wall also having a protuberance formed outwardly from its stock above the rack adjacent the front, but spaced to the rear of the rack supporting protuberance at the front and having a lower bearing surface above the rack in a plane substantially parallel with and spaced above the plane of said bearing surfaces of the rack supporting protuberances, said lower bearing surfaces arranged to engage the rack to prevent tilting of the rack when it is moved forwardly, said protuberances above the rack also having bearing surfaces facing the rear, and said rack having up-turned members at the rear arranged to engage said rear bearing surfaces to limit the forward movement of said rack, and arranged to pass under said protuberances above the rack when the front end of said rack is raised and pulled forward to permit said rack to be removed from said compartment.

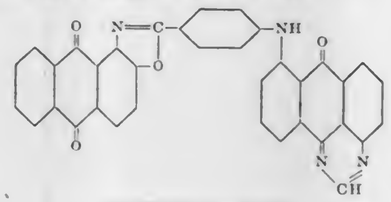
2,168,173
TRANSFORMING MEANS
Camil A. Sabbah, deceased, late of Schenectady, N. Y., by William A. Dodge, administrator, Schenectady, N. Y., and Lysle W. Morton, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application June 5, 1937, Serial No. 146,660
12 Claims. (Cl. 171—97)



1. In combination, an alternating current supply circuit, a load circuit, and a device comprising a pair of electrically insulated windings being wound in mutual inductive relation and being disposed relative to each other to have sufficient inter-winding capacitance which together with said inductance constitutes a tuned circuit resonant to the freqency of said supply circuit for effecting transformation of constant voltage alternating current to alternating current of constant value.

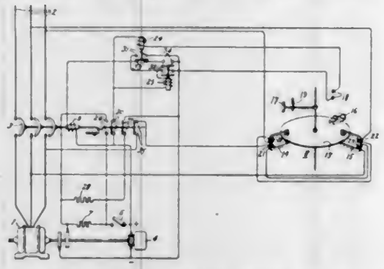
2,168,174
VAT DYESTUFFS OF THE ANTHRAQUINONE SERIES
Otto Schlichting, Ludwigshafen-on-the-Rhine, Germany, assignor to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application July 7, 1937, Serial No. 152,375. In Germany July 8, 1936
1 Claim. (Cl. 260—261)

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2,168,175
SYNCHRONIZING SYSTEM
Harold T. Seeley, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application October 11, 1938, Serial No. 234,431
6 Claims. (Cl. 171—118)

1. An arrangement for closing a circuit breaker in response to the phase relation between the voltages of two alternating current circuits comprising contacts having a normal condition and a second condition, a movable member for changing said contacts from one condition to the other, means energized from said circuits for exerting on said member during a predetermined phase range of the voltages of said circuits a torque in a direction to change said contacts to said second condition and a torque in the opposite direction



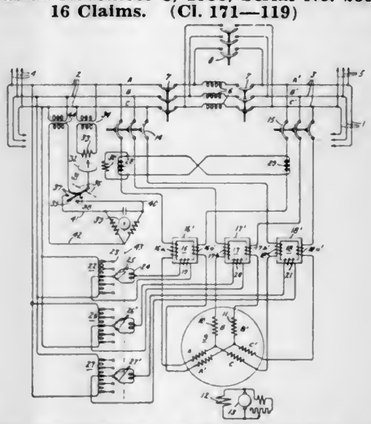
during the remaining phase range of said voltages, means for controlling the movement of said member in said first mentioned direction so that said contacts are changed to said second condition only when the frequency difference between said voltages is less than a predetermined value, and means dependent upon said contacts being in said second condition and subsequently out of said second condition for effecting the closing operation of the circuit breaker.

2,168,176
BORING TOOL
Edward L. Shaw, Brookline, Mass., assignor to Shawlock, Inc., Boston, Mass., a corporation of Massachusetts
Application September 15, 1936, Serial No. 100,849
2 Claims. (Cl. 145—124)



1. A taper hole boring tool comprising a main shank having a bore therein open at the forward end of the shank, the bore having two opposing and parallel walls adjacent to its said end and extending rearwardly thereof and a cooperating intermediate wall adjacent to said end, a cutter shank including a stem extending into and supported within the bore by surface contact with said parallel walls and a transversely extending fulcrum contact with the intermediate wall, a sleeve slidable on said main shank, a spring normally urging the sleeve forwardly, and means carried by the sleeve and cooperating with said stem for causing the cutter shank to rock laterally on said fulcrum contact between and parallel with said opposing walls during forward movement thereof in the boring operation and while the cutter shank remains in supporting surface contact with said parallel walls and in fulcrum contact with the intermediate wall, the stem having clearance at a point spaced from said fulcrum contact within the bore permitting said rocking of the cutter shank.

2,168,177
SYSTEM OF DISTRIBUTION
Howard O. Stephens, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application November 8, 1938, Serial No. 239,485
16 Claims. (Cl. 171—119)

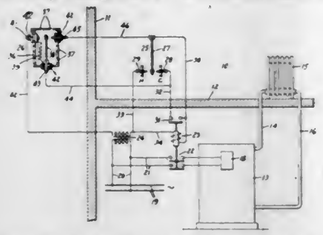


16. In combination, a double-winding polyphase alternating current generator, a bus comprising a plurality of bus sections, each of said generator windings being connected to energize a different bus section, impedance means connected between bus sections to which said generator windings are connected, a balancing transformer interconnecting corresponding phase conductors of each of the phases of said generator, polyphase load ratio control means comprising a polyphase transformer for each phase of said generator, ratio adjusters associated with certain phases less than the total number of phases of each of said polyphase transformers, and means responsive to the currents in the respective generator circuits for simultaneously controlling said ratio adjusters to introduce in each of said balancing transformers a control voltage which is a resultant of a quadrature component and an in-phase component of the associated generator voltage so as to maintain a predetermined ratio between the currents of said generator windings.

2,168,178
TEMPERATURE CONTROL SYSTEM
Harris A. Thompson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 22, 1936, Serial No. 106,992
8 Claims. (Cl. 236—91)

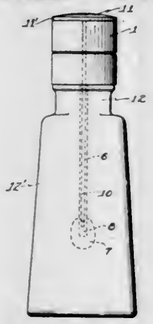
2. In combination, temperature changing means for an enclosure, a relay adapted to be energized for initiating operation of said temperature changing means, a source of energy, a circuit including an outdoor thermostat and a resistor in series and in heat conducting relationship therewith for energizing said relay, a circuit including said resistor and an indoor ther-

mostat for energizing said relay, a holding circuit for said relay adapted to be closed thereby, and



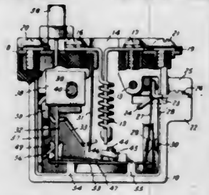
means including said indoor thermostat for short circuiting said relay to deenergize it.

2,168,179
AUTOMATIC FLOW CAP
Sam Edson Tobey, Kalamazoo, Mich.
Application December 23, 1936, Serial No. 117,321
2 Claims. (Cl. 15—133)



1. A bottle closure and liquid dispenser comprising an internally threaded cylindrical shell to receive the mouth of the bottle and having a perforated medial transverse wall, a tube having one end set in the perforation in said wall and having on its opposite end means adapted for spreading liquid emitted through said tube, in combination with an externally threaded plug to fit in said shell and having an elongated cleaning rod mounted centrally therein and adapted to be inserted and housed in said tube when the device is adjusted for non-use.

2,168,180
THERMAL CONTROL DEVICE
George R. Townsend, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 1, 1938, Serial No. 199,366
11 Claims. (Cl. 200—113)

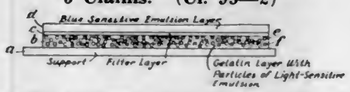


1. A thermally actuable switch comprising a thermoresponsive element adapted for movement in response to changes in temperature, switching means, means including a pivoted member movable by the force of movement of said thermoresponsive element, a spring, means including a link intermediate said spring and said pivoted member for imparting a snap action to said pivoted member after a predetermined movement of said pivoted member by the force of movement of said thermoresponsive element, and means operable by said pivoted member for actuating said switching means.

2,168,181
PHOTOGRAPHIC TREATING BATH
Heinrich Ulrich and Karl Saurwein, Ludwigshafen-on-the-Rhine, Paul Goldacker, Dessau-Haideburg, and Georg L. Maiser, Dessau, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
No Drawing. Application June 23, 1937, Serial No. 149,836. In Germany June 25, 1936
7 Claims. (Cl. 95—88)

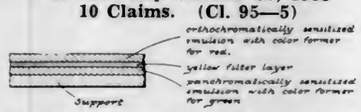
1. A composition of matter comprising at least one substance suitable for treating a photographic material and a member selected from the class consisting of aliphatic amino-polycarboxylic acids containing at least one amino group, in each amino group present at most one hydrogen atom being directly attached to the amino nitrogen and water-soluble salts of said aliphatic amino-polycarboxylic acids.

2,168,182
PHOTOGRAPHIC MATERIAL FOR COLOR PHOTOGRAPHY
Bruno Wendt, Dessau, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
Application November 26, 1937, Serial No. 176,609
In Germany December 9, 1936
6 Claims. (Cl. 95—2)



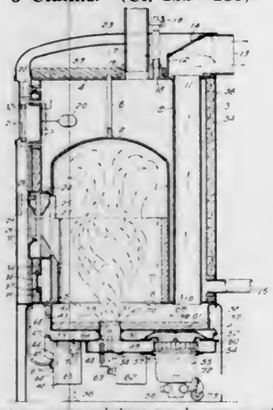
1. A light-sensitive element for color photography comprising a support and a plurality of differently sensitized emulsions containing dyestuff components fast to diffusion and capable of forming dyes selected from the group consisting of quinoneimine and azomethine dyes with the oxidation products of a developer, at least one of said silver halide emulsions being applied in the form of a layer and at least one other of said emulsions being applied in the form of finely distributed hardened particles.

2,168,183
STEREOPHOTOGRAPHY
Gustav Wilmanns, Wolfen, and Wilhelm Schneider, Dessau, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
Application October 20, 1936, Serial No. 106,536
In Germany October 30, 1935
10 Claims. (Cl. 95—5)



1. A process of producing stereoscopic pictures which comprises incorporating in the upper layer of two silver halide gelatin emulsion layers arranged in super-imposition on a support a yellow filter dye and a coupling component having substantive character towards gelatin for the production of a red component picture, sensitizing this layer orthochromatically, incorporating in the lower layer a coupling component having substantive character towards gelatin for the production of a green component picture, sensitizing this layer panchromatically, exposing said material through a stereoscopic optical device adapted for the production of anaglyphs, and developing said material with a solution capable of forming complementary dyestuff pictures at the places of the silver picture by interaction with said coupling components.

2,168,184
OIL BURNING FURNACE
Henry S. Woodruff, Larchmont, N. Y.
Application December 13, 1935, Serial No. 54,156
3 Claims. (Cl. 122—156)

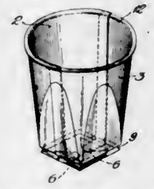


1. A furnace comprising an inner vertically extending elongated shell closed at the top and constituting a combustion chamber, an enclosing vertically extending outer shell, said shells being spaced from each other to form a water compartment between them, a flue, the lower end of which is in communication with the lower end of said inner shell, said flue extending vertically of said water compartment and through the upper end thereof adjacent the upper end of said outer shell, a pressure type burner so constructed and arranged as to project a column of flame upwardly into said elongated shell, said flame being immediately surrounded by said inner shell thereby exposing the inner shell directly to the radiant energy from said flame, the closed top of said inner shell effecting deflection of the combustion products into contact with the inner surface of the inner shell and their passage downwardly along the same and into said flue, and the upwardly projected flame effecting entrainment of some of the downwardly moving combustion products into the flame.

2,168,185
METHOD OF WELDING
Peter Popow Alexander, Marblehead, Mass., assignor to Metal Hydrides Inc., Clifton, Mass., a corporation of Massachusetts
No Drawing. Application September 25, 1936, Serial No. 102,556. Renewed December 30, 1938
4 Claims. (Cl. 113—112)

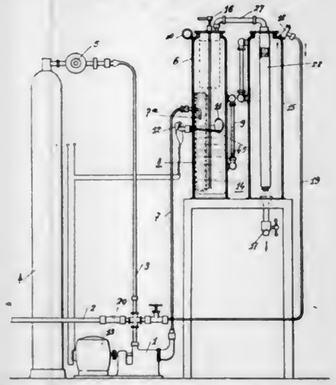
1. That improvement in the art of welding iron which comprises fusing the metal at the point of the weld and dissociating titanium hydride in the zone of the weld by the application of heat to evolve nascent hydrogen and nascent titanium in the molten metal.

2,168,186
PAPER CUP
Allan A. Adamson, West New York, N. J.
Application July 1, 1935, Serial No. 29,281
8 Claims. (Cl. 229—21)



1. A paper cup blank consisting of a substantially square area of a size appropriate for the cup bottom, wings extending one from each of two opposite sides of said area a distance sufficient to provide the intended height of the cup and each of sufficiently greater width than the side of said area to provide marginal portions projecting laterally beyond the sides of said area far enough to cause the edges of one wing to overlap the edges of the other when said wings are bent up and their said marginal portions brought together to form the cup sides, and foldable sealing extensions on the basal edges of said marginal portions and also on the other two sides of said substantially square area.

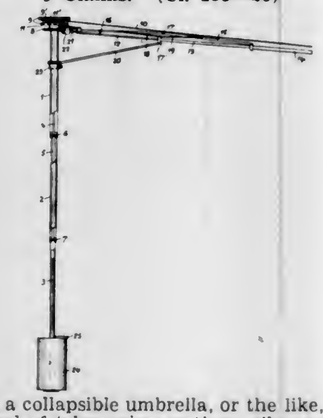
2,168,187
APPARATUS FOR FORMING GAS-LIQUID EMULSIONS
Adrien Auger, Ville d'Avray, France, assignor to Société a Responsabilité Limitée Osmo, Paris, France
Application February 7, 1936, Serial No. 62,868
In France February 8, 1935
6 Claims. (Cl. 261—122)



1. An apparatus for the continuous production under pressure of an emulsion of liquid and gas, comprising a tank, means for forcing a mixture of liquid and gas under pressure into said tank to establish a liquid level therein, at least one porous element in communication with the space above the liquid level in the tank, means for establishing a flow of liquid from said tank

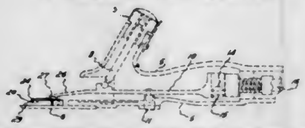
along one side of the porous element, and the pressure being such that the gas from said tank diffuses through said porous element into the liquid flowing past said porous element.

2,168,188
COLLAPSIBLE UMBRELLA
Hans Bernhard, Zurich, Switzerland
Application April 27, 1936, Serial No. 76,671
In Switzerland November 23, 1935
9 Claims. (Cl. 135—26)



1. In a collapsible umbrella, or the like, a stick composed of telescoping sections, ribs each composed of telescoping sections, stays connected by floating elements to the ribs and connected with the stick, and means connected with the several rib sections for mechanically telescoping or extending the sections as the stick sections are telescoped or extended respectively, said means also serving as a cover support and to assist in holding the ribs in the position of use.

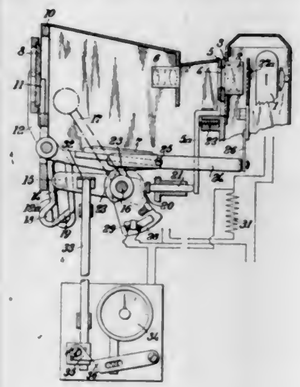
2,168,189
CUTTER FOR SHEARING MACHINES
Francis George William Bristow, Eastwood, near Sydney, New South Wales, Australia
Application September 1, 1937, Serial No. 162,028
In Australia September 7, 1936
5 Claims. (Cl. 30—221)



1. The combination with the cutter of a sheep shearing machine having an oscillating fork, of a plate for transferring pressure to said cutter from the fork, said plate having means for engaging the heel of the cutter and having tongues which engage the teeth of said cutter.

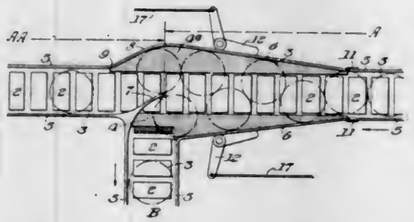
2,168,190
PHOTOGRAPHIC ENLARGING APPARATUS
Ferdinand Busse, Munich, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
Application December 3, 1937, Serial No. 177,961
In Germany December 4, 1936
5 Claims. (Cl. 88—24)

1. In a photographic enlarging apparatus, a negative holder comprising a pressure plate, a source of light and means for varying the illumination thereof, a heat screen movably mounted between the negative holder and the source of light, a ground glass projection screen in position to receive light transmitted by a negative supported in the negative holder, a platen, a means for releasing photographic material from said platen and a single actuating means for



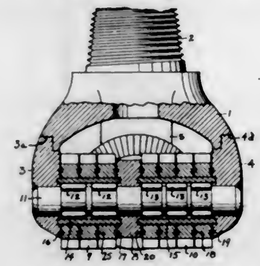
moving said ground glass projection screen out of the path of the light transmitted by said negative, moving the platen into the position previously occupied by said projection screen, actuating the pressure plate of said negative holder, moving said heat screen out of the path of the light striking the negative, increasing the illumination of said source of light to copying strength and actuating the means for releasing the photographic material from said platen.

2,168,191
CONTAINER CONVEYER AND DISTRIBUTOR
Christian N. Bergmann, Pittsburgh, Pa., assignor of two-sixths to Charles M. Clarke, Sewickley, Pa.
Application October 29, 1938, Serial No. 237,684
16 Claims. (Cl. 198—81)



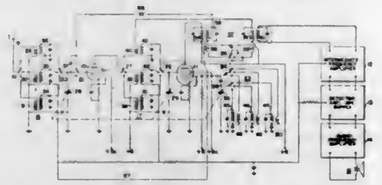
1. In combination, a main actively propelling conveyer having communicating junction with a similar branch conveyer providing a pair of diverging distributing trackways beyond said junction, a middle concaved horn, interconnecting flanking guides for directing and maintaining units in transfer along both conveyer trackways, and a switching device adapted to be normally withdrawn beyond the inner face of one of said guides and to be moved inwardly from one inner side face of the main conveyer guide to direct units towards one of said diverging distributing trackways and to one side of said horn.

2,168,192
ROLLER BIT
Michael D. Carleton, Houston, Tex., assignor to Reed Roller Bit Company, Houston, Tex., a corporation of Texas
Application November 4, 1938, Serial No. 238,710
7 Claims. (Cl. 255—71)



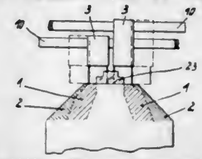
1. In a roller bit, a head having a pair of oppositely disposed depending bearing projections; a bridge between said projections; a pin extending from said bridge in opposite directions to said projections; rolling bearings on said pin; a bushing on said bearings on each side of said bridge and extending into said bridge and the adjacent projection; a group of roller cutters on each of said bushings, said cutters being revoluble independently of each other; sealing rings between said cutters and between said projections and bridge and the cutters adjacent thereto; one of each group of said cutters being connected to its bushing for rotation therewith.

2,168,193
MULTIBAND RECEIVER
Nelson P. Case, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application May 4, 1937, Serial No. 140,619
8 Claims. (Cl. 250—20)



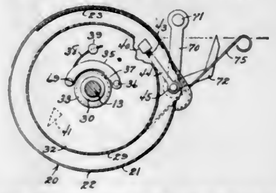
1. A multiband modulated-carrier signal receiver having a plurality of stages and tunable over a high-frequency band and one or more low-frequency bands comprising, a first modulated-carrier-frequency channel, a frequency changer coupled to said channel for changing the carrier derived from said channel to a carrier having a different frequency, said frequency being of a different order of magnitude than that of said first channel in said high-frequency band, a second carrier-frequency channel tuned to the frequency of said second carrier coupled to said frequency changer, an amplifier in one of said channels, an automatic amplification control means connected to a plurality of said receiver stages including said frequency changer and said amplifier, and means for selectively including said amplifier in both of said channels and for simultaneously reducing the effect of said automatic amplification control on said frequency changer for operation in said high-frequency band.

2,168,194
FLAT KNITTING FRAME
Herbert Dietrich, Meinersdorf i. E., Germany
Application November 2, 1937, Serial No. 172,438
In Germany November 3, 1936
6 Claims. (Cl. 66—89)



1. A flat knitting frame, comprising means for narrowing and widening in a plurality of zones with the aid of one narrower on each side of the goods, said narrowers operating a plurality of times in each course and having the width of the inner zones of their sides of the goods, said narrowers hanging over first the meshes of the inner zones and then being racked outwardly for subsequent operation in the same row.

2,168,195
SHEET-END SIGNALING DEVICE
Weber James English, Elgin, Oreg.
Application July 18, 1938, Serial No. 219,885
3 Claims. (Cl. 197—189)

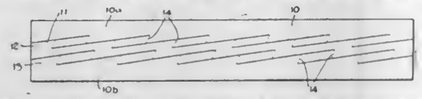


1. In a device of the type described including a supporting frame, a shaft freely rotatably mounted in said frame, a sheet-feeding platen roller carried on said shaft and rotatable therewith, a sheet table adjacent and cooperating with said roller, visible sheet-end signaling means comprising a hollow substantially cylindrical casing mounted on said frame concentric a projecting end portion of said shaft; a rotatable bushing frictionally mounted on said projecting shaft end and positioned within said casing; visual signaling means, actuated by rotation of said bushing; frictional coupling means for facilitating simultaneous rotation of said bushing and said shaft end; and means controlled by passage of a sheet-end across said sheet table for permitting and, upon occasion, limiting rotation of said bushing by said shaft, said means comprising a rocker rod rotatably supported in parts of said frame adjacent said table, feeler arms, attached to said rod and extending therefrom, engaging with sheet-ends whereby rocking motion is imparted to said rod by passage of a sheet-end across said table, and an arm carried on said rod engaging with stops on said bushing for holding said bushing against rotation by said shaft except for an interval immediately subsequent to rocking of said rod.

2,168,196
EXPANDED-METAL STRUCTURAL UNIT
Herbert Alfred Faber, Cincinnati, Ohio
Application November 21, 1936, Serial No. 112,103
7 Claims. (Cl. 72—110)

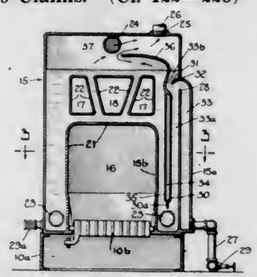
1. A blank for producing an expanded-metal structural unit, comprising a strip of sheet metal

having intermediate its lateral edge portions, spaced mutually parallel sets of mutually parallel and consecutively spaced, diagonally disposed, slits, each of the intermediate slits of each set commencing and terminating short of the middle of the slit preceding and the slit succeeding it, respectively, such that the distance



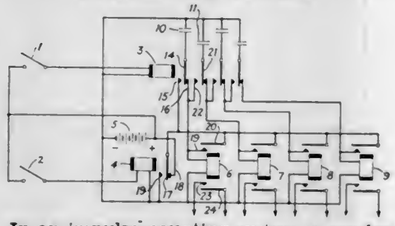
between the adjacent ends of the stated preceding and the stated succeeding slits measured along the slope of the slits is approximately half the distance of the overlap between adjacent slits measured along the slope of the slits, the respective sets being substantially coextensive in longitudinal formation.

2,168,197
BOILER
Herbert Alfred Faber, Cincinnati, Ohio
Application July 27, 1937, Serial No. 155,849
9 Claims. (Cl. 122—225)



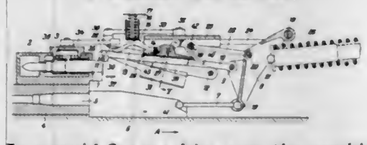
4. In a steam-generating boiler having normally submerged primary and secondary heating surfaces and a water inlet connection, a water-feed loop formed integral with the boiler and provided at its uppermost portion with an aperture disposed internally of said boiler, said loop having an upflow leg connecting with said water inlet and a downflow leg communicating at its lower end with a main water-containing portion of the boiler, the upper part of said loop being wholly below the normal boiler water level and above primary and secondary surfaces thereof, said loop being arranged to prevent the drainage of water from the primary heating surface and complete drainage of water from the secondary heating surface in the circumstance of drainage of water from the said upflow leg of the loop.

2,168,198
ELECTRICAL COUNTING SYSTEM
Frederick W. Frink, Yonkers, N. Y.
Application December 17, 1937, Serial No. 180,446
3 Claims. (Cl. 175—320)



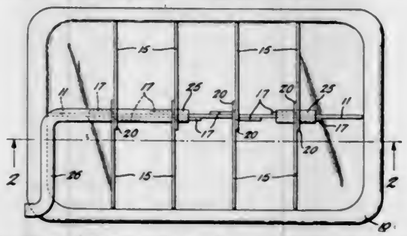
1. In an impulse-counting system, a condenser, switching means for causing said condenser to receive energy and subsequently to convey said energy to a portion of said system, another condenser, switching means for causing said other condenser to receive energy and subsequently to convey said energy to another portion of said system, the receipt of energy by said other condenser being dependent on the energized condition of said first-mentioned portion of said system.

2,168,199
CARTRIDGE FEED MECHANISM FOR FIREARMS
Ferenc Gebauer, Budapest, Hungary, assignor of one-half to "Danuvia" Ipari és Kereskedelmi R. T., Budapest, Hungary, a firm of Hungary
Application August 4, 1937, Serial No. 157,233
In Hungary April 28, 1937
4 Claims. (Cl. 89—33)



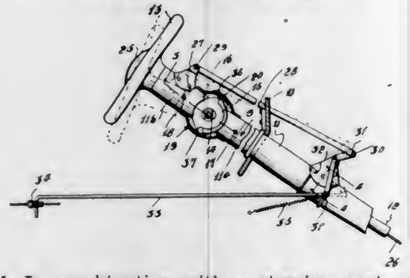
1. In a rapid fire machine gun, the combination of a cartridge extractor moved by a part of the breech block mechanism and having a cartridge-engaging end provided with an extracting claw and a pushing nose, a lever system connecting said part of the breech block mechanism to said cartridge extractor mechanism and comprising a pivoted control lever, and two pivot pins connecting said control lever one to the breech block mechanism and the second to the cartridge extractor mechanism, the angle between the line connecting the first pivot pin to the pivot of said control lever and the line of movement of the breech block when the breech block is in closed position being smaller than the angle between the line connecting the second pivot pin and the pivot of said control lever and said line of movement.

2,168,200
ICE TRAY
Harvey D. Geyer, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 10, 1937, Serial No. 141,610
6 Claims. (Cl. 62—108.5)



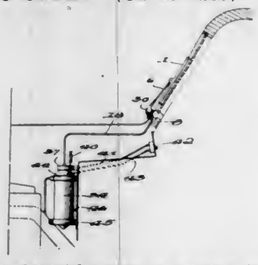
1. In a freezing tray, a container pan, a removable grid for said pan, said grid comprising: a main longitudinal metal plate and a series of metal cross partitions associated with said plate to form ice block compartments, said cross partitions each having a spring flange pressing against said plate and normally projecting therefrom, retaining means for holding said spring flanges deflected toward said plate during freezing of the ice contents, and means for releasing said retaining means after the ice is frozen to permit said flanges to return to their normal projecting position and thereby aid in ejecting the ice from the grid.

2,168,201
COMBINED STEERING AND BRAKING MECHANISM
Walter W. Gilbert, Stillwater, Minn.
Application April 14, 1938, Serial No. 202,079
3 Claims. (Cl. 74—486)



1. In combination with a steering post comprising sections pivotally connected together, a column about said post comprising sections pivoted together, an arm extending from one of the sections of the column, means operable through movement of the arm to apply braking mechanism, and spring means normally maintaining the post and column sections in operative position for steering and disposed for tensioning through the last mentioned movement so as to restore said sections upon release, to the last mentioned position.

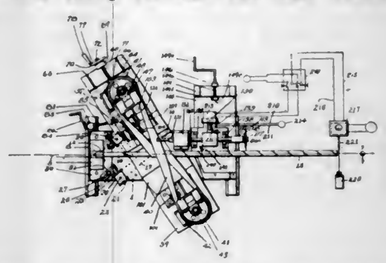
2,168,202
WINDSHIELD WIPER
Aubrey B. Grantham, Douglaston, N. Y.
Application April 23, 1937, Serial No. 138,647
5 Claims. (Cl. 15—250)



1. In a windshield wiper, a wiping blade comprising a semi-rigid non-absorbent rubber core, a strip of flexible material extending lengthwise along opposite sides of the core and around an end thereof, and a channel embracing said core and strip of flexible material for supporting the same, said core having an inner wiping edge portion substantially wedge-shaped in cross-section with the sides thereof tapering inwardly in spaced relation from the sides of the strip of flexible material.

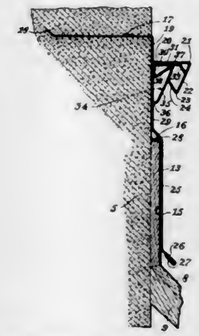
2,168,203
TUBE CUTTING MACHINE
Raymond V. Green, Fulton, N. Y.
Application March 17, 1937, Serial No. 131,425
11 Claims. (Cl. 164—69)

1. In a tube winding machine, a knife mounted on a movable shaft, movable in both a parallel direction along its axis and also transverse



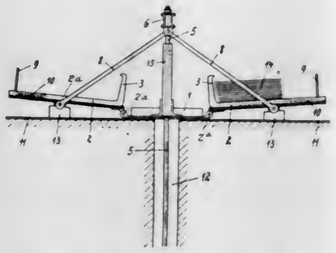
thereto, an electric magnet for moving said shaft in one direction and a bearing for allowing said shaft to move freely in the opposite direction.

2,168,204
INTERLOCKING FLASHING PLATE
Barney Hanson, Miami, Fla.
Application December 4, 1937, Serial No. 178,163
1 Claim. (Cl. 108—26)



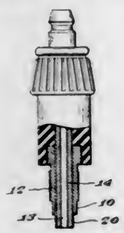
In a roof flashing, a coping strip adapted to be embedded in a coping, such strip having portions adapted to extend downwardly and outwardly from the coping, a downwardly and inwardly bent flange formed on the outwardly bent portion, said downwardly and inwardly extending flange terminating in an upwardly and inwardly extending portion with its free edge in spaced relation to the outwardly extending portion to provide a resilient V-formation, a flashing strip mounted at right angles to the coping strip, an outwardly directed wall at the upper end of the flashing strip having an outwardly and downwardly directed flange adapted to underlie the outwardly extending portion of the coping strip and be interlockingly engaged with the downwardly and inwardly extending flange of the coping strip and a removable resilient strip of inverted substantially V-formation mounted in the interfitting connection between the coping and flashing strips with one of the side portions of the resilient strip having the free edge of the upwardly and inwardly directed flange of the coping strip engaged therewith intermediate its side edges, the bight of the resilient strip being engaged with the outwardly directed portion of the flashing strip and an upstanding flange carried by the other side portion of the resilient strip being flatly engaged with the flashing strip, said removable resilient strip adapted to interlock the flanges of the coping strip with the flange of the flashing strip.

2,168,205
MACHINE FOR RECEIVING AND CONVEYING INTO AND OUT OF THE PICKLING TANKS, PILES OF SHEET BILLETS, SEMI-FINISHED ROLLED PRODUCTS, SHEETS, AND OTHER MATERIAL TO BE PICKLED
Karl Peter Harten, Eichen, and Arnold Lerg, Kreuztal, Germany, assignors to Hüttenwerke Siegerland Aktiengesellschaft, Siegen, Westfalen, Germany
Application January 12, 1938, Serial No. 184,702
In Germany June 30, 1937
3 Claims. (Cl. 266—7)



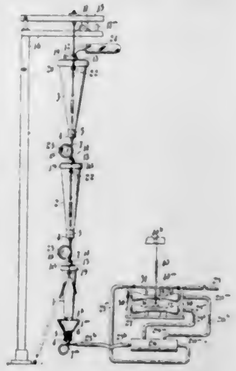
1. A device for accommodating and conveying piles of sheet billets, semi-finished rolled products, sheets or other material to be pickled into and out of a pickling tank, comprising a middle part, pull rods guided in said middle part, a girder carrying said pull rods, supporting elements hingedly connected to the two sides of said middle part, adapted to receive the piles of material, ledges on said supporting elements, adapted to support the piles of material in vertical position connecting rods connecting said supporting elements with said girder and adapted, when said girder is lifted, to swing said supporting elements upwards into closed position and thereby bring the material resting thereon into upright position, and when said girder is lowered to guide said supporting elements downwards into open position and thereby return the material into its horizontal position resting on the supporting elements.

2,168,206
SPARK PLUG
Arthur C. Hastings, Jr., South Yarmouth, Mass.
Application February 11, 1938, Serial No. 190,057
9 Claims. (Cl. 123—169)



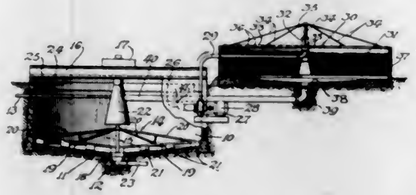
1. In a spark plug, an outer metallic threaded sleeve, an inner electrode, and a body of insulating material between the outer and inner electrodes, said inner electrode and insulating member projecting beyond the end of the threaded sleeve, and a short preformed thin-walled metallic tubular member welded to the end of the sleeve and surrounding the projecting ends of the insulating member and inner electrode.

2,168,207
APPARATUS FOR CLASSIFYING FINELY GRANULATED SOLIDS ACCORDING TO SIZE
Herbert E. T. Haultain, Toronto, Ontario, Canada
Application May 21, 1936, Serial No. 80,947
5 Claims. (Cl. 209—139)



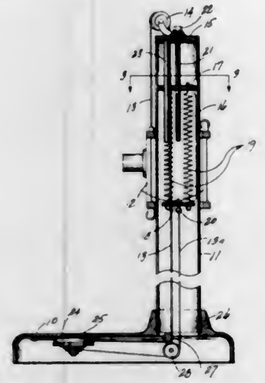
1. Apparatus of the class described comprising a plurality of settling tubes of progressively greater diameter arranged one above the other in substantial alinement and connected in series; means for passing finely divided solids suspended in a fluid upwardly through the tubes in succession, the tubes having valve seats; valve members adapted to engage the seats to prevent backflow of solids from the tubes and adapted to be raised off the seats by the passage of the fluid therethrough; and conduits connecting the upper ends of the tubes with the lower ends of adjacent tubes in the series, each conduit having substantially alined ends with a circular loop formed intermediate thereof for trapping any solids escaping past a valve member to ensure that such solids will not pass into a tube below that from which they came.

2,168,208
APPARATUS FOR BIOLOGIC PURIFICATION OF LIQUIDS
Harry Neville Jenks, Berkeley, Calif.
Application September 22, 1933, Serial No. 690,517
3 Claims. (Cl. 210—7)



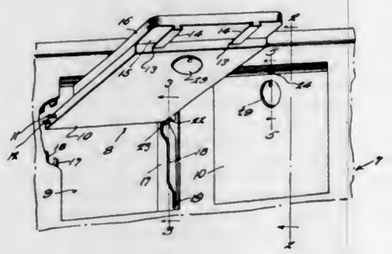
1. A purification system comprising a tank for holding the material to be purified, a filter having a porous filtering bed through which the material may trickle, an inlet duct opening into the central portions of the tank for introducing new material, means for withdrawing material from the upper portions of the tank and depositing the same on the filter bed, and a duct also opening into the central portions of the tank for leading the material trickling through the bed back to said tank.

2,168,209
SPRING COUNTERBALANCE
Walter H. Haupt, Ludlow, Ky., assignor to The Kelley-Koett Manufacturing Company, Inc., Covington, Ky., a corporation of Ohio
Application July 16, 1937, Serial No. 154,047
8 Claims. (Cl. 248—123)



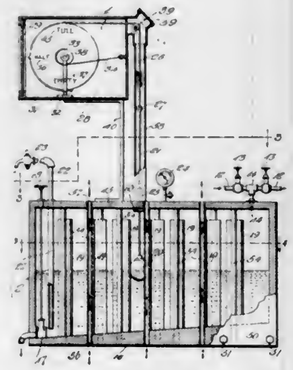
1. In an apparatus comprising a column and a carriage to be counterbalanced on said column and a base supporting said column and carriage, a plurality of helical springs vertically arranged inside the column, a pair of end plates to which the ends of said springs are attached, the lower part of the assembly being movable, a combination pulley comprising a spirally grooved portion and a coaxial cylindrical portion, said pulley being rotatably mounted on the base, a cable connecting the lower end of the spring assembly with the spiral groove of the said pulley and a second cable connecting the carriage to the cylindrical part of said pulley, the spiral grooves on the face of the pulley being adapted to guide the second cable so as to keep the counterbalancing force of the spring assembly exerted upon the carriage through said first cable, a constant.

2,168,210
UTILITY TABLE FOR MOTOR VEHICLES
Ralph Goodwin Hawksley, Cranston, R. I.
Application July 29, 1937, Serial No. 156,392
2 Claims. (Cl. 311—20)



1. In a construction of the class described, a relatively fixed support having a recess therein providing a compartment, a pair of fixedly mounted adapter plates confined in the compartment, vertically disposed, and located in spaced parallelism with respect to each other, said plates being provided in opposed portions with vertically elongated slots, the opposite edges of said slots being provided with opposed pairs of selectively usable keeper notches, and a shelf foldable into and constituting a closure for the open front of said compartment, the inner end of said shelf being provided with outstanding pairs of retaining pins, and said pins being located for movement in said slots and adapted for engagement with predetermined ones of said keeper notches.

2,168,211
BEVERAGE AND LIQUID DISPENSER
Raymond A. Hennings, New Orleans, La.
Application November 5, 1935, Serial No. 48,400
1 Claim. (Cl. 225—9)

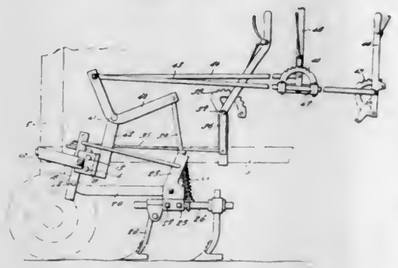


In a device of the character described, a tank in direct communication with a beverage container and having beverage inlets and outlets arranged therein, the lower wall of said tank being inclined and provided with a sediment drain at the lower end of the incline, refrigerating tubes arranged within said tank in staggered relation to each other and baffles arranged at angles within said tank and in proximity to said tubes whereby passage of beverage through said tank is retarded and cooled by said refrigerating tubes, said baffles having one end secured to said tank and free at the other end in opposed planes.

2,168,212
SYNTHETIC METALLIC ENAMEL
Glenn H. Hicks, Detroit, Mich., assignor to Acme White Lead & Color Works, Detroit, Mich., a corporation of Michigan
No Drawing. Application August 17, 1938, Serial No. 225,347
4 Claims. (Cl. 260—39)

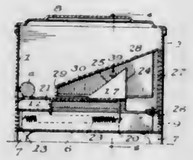
1. A baking synthetic metallic enamel composed of a mixture of finely ground metal bronze powder, other pigment material, volatile solvents and synthetic resins being in situ, and said synthetic resins consisting of alkyd resin and urea formaldehyde resin that is compatible with the alkyd resin and has the property of becoming more viscous on the application of heat, said urea resin being from 10% to 90% by weight of the total amount of said resins.

2,168,213
TRACTOR CULTIVATOR
Joe L. Holy, West, Tex.
Application September 20, 1938, Serial No. 230,863
3 Claims. (Cl. 97—47)



1. A cultivator attachment for tractors comprising a pair of cultivator units positioned at opposite sides of the tractor, each unit comprising a pair of spaced parallel rods projecting laterally from the side of the tractor, carriers slidably carried by the rods, said rods maintaining the carriers against rotary movement, a cultivator beam secured to each of the carriers and means for adjusting the carriers relative to each other.

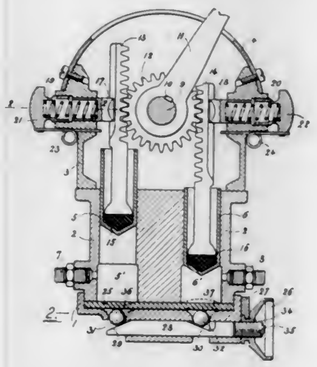
2,168,214
CIGARETTE CASE AND DISPENSER
George H. Hutaff, Jr., Wilmington, N. C.
Application November 4, 1937, Serial No. 172,795
3 Claims. (Cl. 312—78)



1. A device of the character described including a case for receiving a plurality of cigarettes, said case including a front portion having a longitudinally extending discharge opening therein, means for delivering a single cigarette to a position extending parallel with the discharge opening, and means operable for discharging the cigarette through the discharge opening and during such discharge turning the same to project forwardly of the case towards the operator and to be held until finally withdrawn for use.

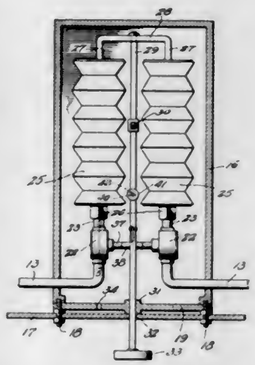
2,168,215
HYDRAULIC TRANSMISSION SYSTEM
Hans Julius Keitel, Friedrichshafen-on-the-Bodensee, Germany, assignor to Dornier-Werke G. m. b. H., Friedrichshafen-on-the-Bodensee, Germany, a corporation
Application July 23, 1936, Serial No. 92,176
In Germany August 1, 1935
12 Claims. (Cl. 60—54.6)

1. A hydraulic control apparatus, comprising a plurality of operating cylinders made of rigid material, pistons made of rigid material within said cylinders, a tooth wheel and a plurality of racks engaging said tooth wheel, and connecting means made of rubber like material and interconnecting said racks and engaging said pistons, whereby said pistons are operated upon motion of said tooth wheel, and, due to said connecting means, minor, independent movements of said pistons



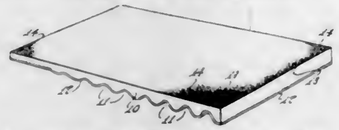
are possible, and minor inaccuracies in the assembly of the apparatus remain without influence.

2,168,216
AIR PUMP FOR WINDSHIELDS
Raymond E. Kennedy and Roy W. Bartle, New Albany, Ind.
Application February 26, 1937, Serial No. 127,992
2 Claims. (Cl. 230—160)



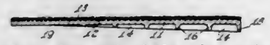
1. In a device of the character described, a pair of bellows spaced transversely from each other, valves for connecting ends of said bellows with companion pipes, each valve including a rotatable closure member movable into and out of position to block passage of air between a bellows and its companion pipe, a crank shaft extending between the valves and constituting interconnected stems for the closures of the valves, and operating means consisting of a rod mounted for reciprocating movement longitudinally of the bellows between the same, a yoke mounted upon said rod and projecting from opposite sides thereof with its ends connected to the bellows at opposite ends thereof from the valves, and means carried by the rod for rocking the crank shaft during reciprocation of the rod to open and close the valves during operation of the bellows.

2,168,217
SHINGLE
Lester Kirschbraun, New York, N. Y., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Application September 3, 1937, Serial No. 162,238
8 Claims. (Cl. 108—8)



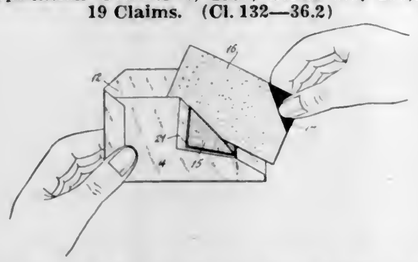
1. A roofing element of the character described comprising a body portion of hardened plastic material composed of bituminous material and hardening fillers, the undersurface of said body portion being formed with a plurality of transversely extending grooves and a reinforcing sheet secured to one surface of said body portion.

2,168,218
MASTIC SHINGLE
Lester Kirschbraun, New York, N. Y., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Application September 28, 1937, Serial No. 166,075
2 Claims. (Cl. 108—8)



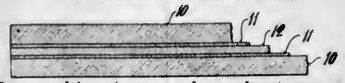
1. A roofing element of the character described comprising a body portion of hardened plastic material composed of bituminous material and hardening fillers, the body portion tapering in cross section from a relatively thick butt end to a relatively thin upper end, the underside of said body portion being formed with a plurality of depressions defined by transversely and longitudinally extending ribs, the depressions progressively decreasing in depth from said butt end of the element to a point adjacent the upper end thereof and the successive depressions longitudinally of the element tapering in depth in conformity with the tapering cross section of the body portion, and a sheet of backing material secured to the undersurface of said body portion and bridging the depressions therein.

2,168,219
PERMANENT WAVING DEVICE
Daniel Lakenbach, Norwich, Conn.
Application October 2, 1937, Serial No. 166,932
19 Claims. (Cl. 132—36.2)



1. A sachet for permanent waving without the use of electricity, comprising an envelope formed of a blank having a flap folded upon the blank body, a plurality of sheets of thin metallic foil folded along a median line of such sheets and inserted, in such folded condition, within the envelope between the blank body and the folded-over flap, and a pad of absorbent material impregnated with a chemical mixture and adapted to be moistened by a solution and to be positioned between the folded portions of the sheets of the metallic foil, whereby, upon reaction between the moistened, chemically impregnated, absorbent pad material and the metallic foil material, there will be produced an amount of heat sufficient to impart a permanent wave to human hair placed in juxtaposition with the sachet.

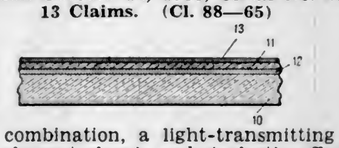
2,168,220
LAMINATED LIGHT POLARIZER
Edwin H. Land, Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application August 15, 1936, Serial No. 96,196
10 Claims. (Cl. 49—92)



7. In combination, a glass sheet, an adhesive layer comprising a highly polymerized vinyl compound and a relatively large amount of plasticizer, a light-polarizing layer comprising a set suspension of oriented polarizing particles in a cellulosic medium comprising a relatively small amount of plasticizer, a second adhesive layer and a second glass sheet, the plasticizer in said adhesive being a non-solvent of said cellulosic medium and of said polarizing particles.

8. A lamination comprising a plurality of transparent elements having sandwiched therebetween and bonded thereto a sheet of plastic having a relatively low plasticizer content, the lamination also comprising bonding material having a substantially higher plasticizer content than said plastic.

2,168,221
LAMINATED LIGHT POLARIZER
Edwin H. Land, Wellesley Farms, Mass., assignor, by mesne assignments, to Polaroid Corporation, Dover, Del., a corporation of Delaware
Application October 14, 1936, Serial No. 105,512
13 Claims. (Cl. 88—65)

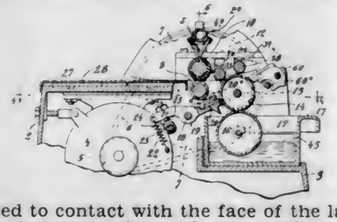


1. In combination, a light-transmitting supporting element showing photoelastic effects in polarized light when heated, a thin sheet-like layer having predetermined optical anisotropy and a layer of adhesive between said supporting element and said anisotropic layer and bonding said element and said layer together, the surface of said anisotropic layer not in contact with the adhesive being light-transmitting bonded to a thin film of material adapted to show no appreciable photoelastic effects when heated.

2,168,222
APPARATUS FOR APPLYING ADHESIVE TO LABELS AND THE LIKE
Nathan Lanes, Brooklyn, N. Y.
Application January 30, 1937, Serial No. 123,216
5 Claims. (Cl. 91—50)

1. In an apparatus for applying adhesive to labels and the like, a container for adhesive, an applicator roller adapted to receive the adhesive, a blade coacting with the applicator roller for

controlling the amount of adhesive thereon, means coacting with the applicator roller for feeding a label over the surface of said roller, said means comprising a yielding surfaced roller



adapted to contact with the face of the label opposite that contacting with the applicator roller, and means for applying moistening fluid to said yielding surface.

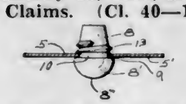
2,168,223

ILLUMINATED SIGN

Louis L. Lauve, Jr., Baltimore, Md.

Application January 12, 1939, Serial No. 250,624

2 Claims. (Cl. 40—133)



2. In combination, a sign support comprising, a retaining panel having an aperture therein, a light transmitting element adapted to be supported within said aperture, said sign panel having a front and back surface, said light transmitting element having an enlarged head which is normally positioned adjacent the front surface of the said panel and a body portion extending outwardly from the back surface and substantially perpendicular thereto, a circumferential groove about the body portion of said element adjacent the head, the diameter of the body portion within said groove being substantially the same as the diameter of the aperture for normally positioning the said light element within the said panel, a retaining means carried by said element for retaining said element within the aperture, said element retaining means comprising a portion of the body immediately adjacent the groove and lying between the same and the outwardly extended end of the body being slightly larger in diameter than the said aperture, one of said retaining means being slightly elastic, thereby allowing the said light element to be advanced through the aperture to the groove.

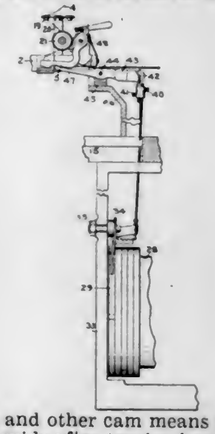
2,168,224

KNITTING MACHINE FOR INCORPORATING AN ELASTIC THREAD OR YARN IN A FABRIC

Robert H. Lawson, Pawtucket, and Arthur N. Cloutier, Lonsdale, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application March 5, 1935, Serial No. 9,450
Renewed July 26, 1938
12 Claims. (Cl. 66—134)

1. A knitting machine having therein knitting instrumentalities and means including a yarn guide for feeding an elastic thread to the instrumentalities for incorporating it into a fabric, a supply from which the elastic yarn is to be drawn and tension means through which it is passed before being taken by the instrumentalities whereby said elastic yarn will be knitted under tension, cam means for moving said yarn guide to a non-feeding position and a yarn clamp for retaining said elastic yarn when it has been withdrawn from the instrumentalities, means on the yarn guide for acting on the tension means to nullify its effect



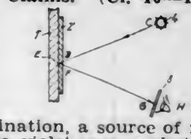
on the yarn, and other cam means for imparting to said yarn guide after tension has been removed from the yarn, an additional movement whereby slack yarn will be drawn from the supply.

2,168,225

PHOTOGRAPHIC IMAGE AND METHOD OF AND APPARATUS FOR VIEWING THE SAME

Hans Lewin, Hamburg, Germany

Application June 16, 1937, Serial No. 148,577
In Germany December 10, 1936
6 Claims. (Cl. 40—134)



4. In combination, a source of monochromatic light and ultra-violet rays, a photographic image and a support therefor containing fluorescent material, and a transparent filter in the path of light emanating from said source and reflected by said image, said filter being of a color complementary to the color of light emanating from said source.

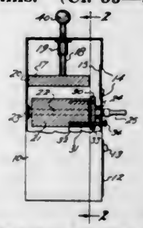
2,168,226

SAFETY BOTTLE BREAKER

William Lieb, Detroit, Mich.

Application December 19, 1938, Serial No. 246,540

5 Claims. (Cl. 83—93)



1. A bottle breaker comprising a cabinet having an opening in its front adapted to be closed by a movable shutter, an anvil within the casing and disposed horizontally adjacent the opening in position to receive a bottle thrust into the cabinet through the opening, a hammer above the anvil provided with means for raising it and adapted to move downwardly, upon release of such means by the operator, to strike a bottle positioned on the anvil and to break it, the anvil having two opposed bottle receiving surfaces formed for satisfactory reception of a bottle, and being mounted to be rotatable on a horizontal axis so as to present either of these two surfaces selectively to the hammer, a handle on the front of the cabinet for rotating the anvil, and means for indexing the anvil in either of its two positions, the means being self-locking and being personally manipulable for release.

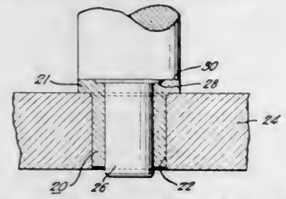
2,168,227

METHOD OF SIZING POROUS METAL BEARINGS

Jean A. Lignian, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 29, 1937, Serial No. 171,657

8 Claims. (Cl. 29—149.5)



2. The method of sizing a flanged bearing fabricated from porous metal in which the flanged portion is unconfined while inserting the remainder of the bearing into a receiving recess of a bearing support which comprises, forming a flanged bearing having an inside diameter greater than the inside diameter required and an outside diameter greater than the diameter of said recess; assembling the bearing upon a shouldered sizing mandrel having a diameter equal to the desired inside diameter of said bearing; causing the shouldered portion of the mandrel to bear on said flange and to move relative to the bearing support for introducing the bearing into the recess; progressively causing said shouldered mandrel to bear on the increasing areas of said bearing flange for progressively reducing the inside diameter of said bearing simultaneously at either end thereof while the bearing is being seated in said recess and the inside diameter of the bearing is being reduced to substantially the same diameter as the mandrel.

2,168,228

SUSPENSION OF MAGNESIUM HYDROXIDE AND MATERIALS AND PROCESS FOR MAKING SAME

Roger A MacArthur, Wyoming, Ohio, assignor to The Philip Carey Manufacturing Company, a corporation of Ohio

No Drawing. Application December 28, 1936, Serial No. 117,889

28 Claims. (Cl. 167—72)

12. As a product, milk of magnesia of a creamy and very slight-settling character comprising primarily magnesium hydroxide particles in aqueous suspension, said milk of magnesia comprising water, magnesium hydroxide particles formed by interaction between magnesium oxide and water and a dissolved electrolytic hydration agent which is effective in the amount present in said product to give the milk of magnesia substantially greater non-settling property than a milk of magnesia similarly prepared but substantially free of an electrolyte.

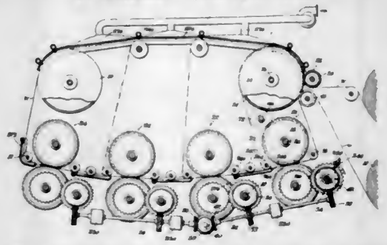
2,168,229

WEB-FED PRINTING PRESS

Charles J. MacArthur, Glen Ridge, N. J.

Application December 17, 1937, Serial No. 180,285

47 Claims. (Cl. 101—181)



1. In a multi-color press comprising a plurality of printing couples for printing on web material in motion, rotatable means adapted to move and to stop web material in unison with the web printing cylinders without reliance upon the printing couples, and to maintain the same tension on web material during printing and non-printing operations substantially independent of the web impressing members.

2,168,230

CERAMIC BODY AND METHOD OF MAKING THE SAME

Samuel J. McDowell, Metuchen, N. J., assignor to General Ceramics Company, a corporation of New Jersey

No Drawing. Application September 2, 1937, Serial No. 162,134

13 Claims. (Cl. 106—11)

1. A fired ceramic body characterized by a dielectric power factor of not more than .05% comprising talc and non-alkali metallic oxides including antimony oxide.

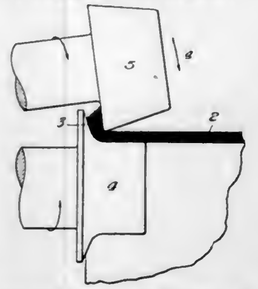
2,168,231

CONTAINER AND METHOD OF MAKING THE SAME

Benjamin McLain and Melvin G. Voland, Butler, Pa., assignors to Keystone Drum Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application June 3, 1938, Serial No. 211,558

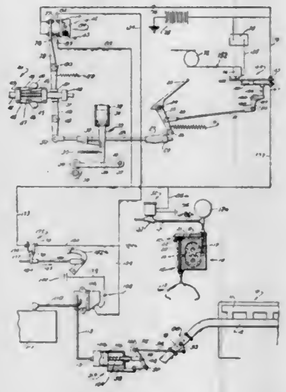
5 Claims. (Cl. 153—1)



1. In the manufacture of containers or the like, the herein described method of connecting a metal part to a multi-layer fibrous body or the like, consisting in forming the endmost portion of the body layers in freely separated relation,

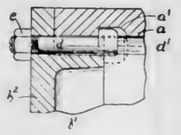
thereafter applying the metal part, and curling the metal part into interlocked relation with said separated layers.

2,168,232
MOTOR VEHICLE CONTROL
Lester H. Messinger, Jr., Trumbull, Conn., assignor to Messinger Devices, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application March 26, 1935, Serial No. 13,019
27 Claims. (Cl. 192—3)



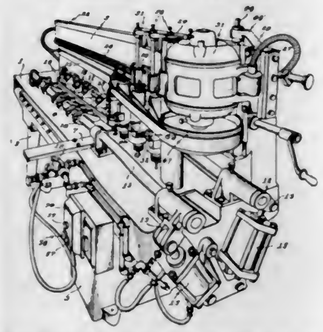
1. In combination, in a motor vehicle including an internal combustion engine, a fuel line to the engine, a pump in the line, and means movable from a wide open to a completely closed position to suddenly close the fuel line at a point between the engine and pump to preclude further passage of fuel from the pump to the engine on the engine reaching a predetermined maximum speed.

2,168,233
ROLL, SPECIALLY SUITABLE FOR USE IN PAPER MAKING MACHINES
William Hulse Millspaugh, Sandusky, Ohio
Application May 26, 1937, Serial No. 144,948
In Great Britain May 29, 1936
2 Claims. (Cl. 92—49)



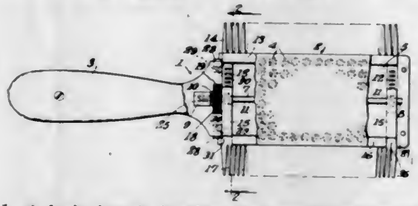
1. A roll comprising a centrifugally cast shell having its wall of even thickness and density circumferentially at each cross section of its length and formed of steel capable of offering considerable resistance to flexure by applied pressure, a covering for said shell of non-rusting material, said shell being constructed with angularly spaced notches in its inner surface near its ends, metal end walls or heads having flanges abutting the ends of the shell and provided with journals, bolts through said flanges extending through the heads, said bolts having hooked ends arranged to engage the notches in the shell and retaining nuts on said bolts outside of the flanges.

2,168,234
GROOVING MACHINE
Rudolph F. Onsrud, Chicago, Ill., assignor to Onsrud Machine Works, Inc., Chicago, Ill., a corporation of Illinois
Application July 7, 1936, Serial No. 89,320
5 Claims. (Cl. 144—136)



5. A machine for forming undercut grooves of varying configurations, consisting of a frame structure having mounted thereon a work support, a cutting unit, said cutting unit comprising a series of tool carrying spindles arranged substantially in line for the purpose of causing tools carried thereby to successively perform cutting operations in forming a single groove in stock carried by said work support, means for adjusting said spindles relatively to each other in the direction of the axes of said spindles, means for adjusting said spindles laterally to their axial adjustment, a driving means for said spindles, and means for causing a relative feed movement between the cutting unit and the work support.

2,168,235
COMBINED BRUSH AND COMB
Benjamin Oshman and David Oshman, New York, N. Y.
Application August 18, 1938, Serial No. 225,508
15 Claims. (Cl. 132—86)

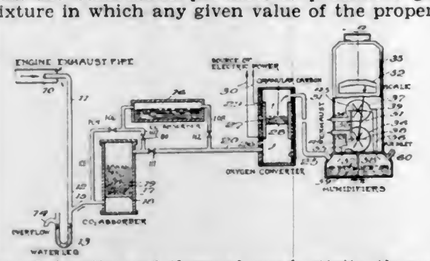


1. A hair brush having the combination of a body for the brush, a pair of combs mounted in said body to slide inwardly to inoperative position and outwardly to operative position, a shaft mounted rotatably in said body, and means actuated by the rotation of said shaft to move said combs to operative and inoperative positions.

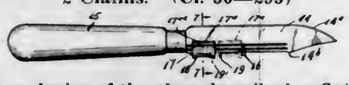
2,168,236
DETERMINING AIR-FUEL RATIOS IN COMBUSTION
Eric Pick, New York, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware
Application November 24, 1936, Serial No. 112,598
9 Claims. (Cl. 23—232)

1. In a method of determining air-fuel ratio

in combustion processes in internal combustion engines which give rise to gaseous combustion products containing CO_2 and other, lighter gases, the proportion of CO_2 being greatest at some one air-fuel ratio value and lower at air-fuel ratios above and below said one value, removing the CO_2 from the combustion products to produce a gas mixture in which any given value of the properties of density and thermal conductivity thereof corresponds to only one particular air-fuel ratio, then, without oxidizing any constituent of the remaining gas mixture, measuring one of said properties by comparison with a standard gas having a substantially fixed value of said property, and determining the air-fuel ratio directly from said measurement.



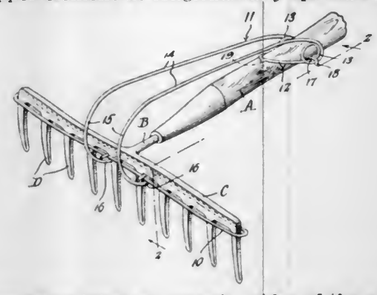
2,168,237
FINGER REST PLATE ON KNIVES
Maurice Polacsek, Brooklyn, N. Y.
Application September 9, 1937, Serial No. 162,964
2 Claims. (Cl. 30—295)



2. In a device of the class described, a flat member having a pair of parallel grooves formed in both faces thereof and spaced in from one edge of said member, a U-shaped element engageable over the edge of said member adjacent said grooves, cooperative serrations formed upon the edge of said member and the adjacent face of said element for holding said element fixed upon said member, and an inwardly extending projection formed on each of the arms of said element and said projections being engageable into the innermost grooves of said pairs of grooves for holding said element in a position in which said serrations will be inter-engaged, said arms of said U-shaped element being resilient to permit said element to be manually pulled outwards to engage said projections into the outermost grooves of said pair of grooves to disengage said serrations to free said element so that it may be moved to various adjusted positions along the length of said grooves.

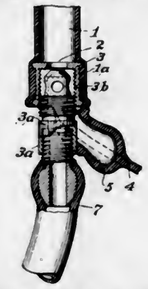
2,168,238
RAKE CLEANING DEVICE
Charles E. Powell and Chester F. Wood, Stony Brook, N. Y.
Application February 21, 1938, Serial No. 191,584
1 Claim. (Cl. 55—146)

In a tooth cleaning attachment for hand rakes having a stripper element adapted to transversely embrace the tooth portion of the rake head and to slide with reference to the length of the teeth, a member for associating said stripper element with the rake so as to normally maintain the stripper element in a retracted position adjacent the inner ends of the teeth and to tension the movement of the same towards the free outer ends of the teeth, said member consisting of a continuous length of resilient wire having a medial bight portion overlying the rake handle, a pair of coiled spring portions each attached at the lower end to one of the opposite ends of the bight portion and located on opposite sides of the rake handle, an arm extending from the remaining upper end of each coiled spring portion towards the rake head, a depending looped terminal at the free end of each arm surrounding the stripper element at longitudinally spaced regions



thereof and lying on opposite sides of the axis of the handle, and a cross clip engaging through the coiled portions of said member and contacting with the handle on the underside thereof so as to dispose and retain the coiled springs under tension to thereby resiliently impinge the bight portion against the upper side of the rake handle, said cross clip having terminals engaging respectively with said coiled springs to retain said cross clip in place.

2,168,239
WATER BOTTLE
Milton B. Reach, Springfield, Mass.
Application February 21, 1936, Serial No. 65,131
15 Claims. (Cl. 128—227)

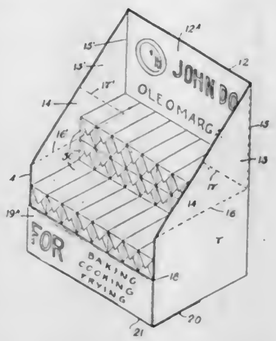


1. A water bottle, syringe or the like having a hose attachment and a flexible tab at the lower end of the bottle, the connection for the hose being in intimate relationship with the said flexible tab at the bottom of the bottle, said flexible tab at its upper part having a slot or cut through part of its width to permit exposure of the hose connection by flexing the tab aside.

2,168,240
DISPLAY CONTAINER
Paul Roberts, Sandusky, Ohio, assignor to The Hinde & Dauch Paper Company, Sandusky, Ohio, a corporation of Ohio
Application July 21, 1937, Serial No. 154,858
3 Claims. (Cl. 206—44)

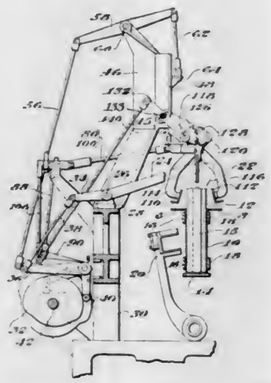
1. A combined packing and display container comprising in combination side walls and a back all of which are permanently flat and of equal

height, a multi-section front, a top full lap, a top part lap, and side wings each hinged to the upper edge of a respective side wall, said top full lap being hinged to the upper edge of the carton back and also having one of said side wings hinged to each end, said side wings being bendable intermediate their said respective hinge connections, said top part lap being hinged to that carton edge which is the upper front when closed, and



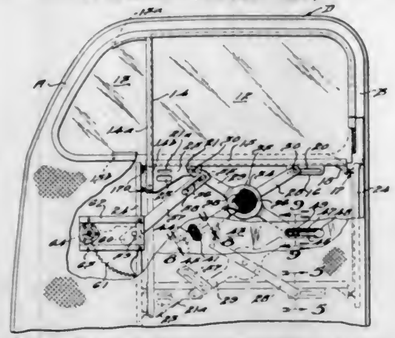
the upper section of said carton front being hinged parallel to said edge at half the carton height and severed from the side walls above such median hinge line thereby adapting said upper section to be bent 180° around said median hinge line, and the connection between said part lap and said upper section being adapted for bending 180° to form a right angle in either of two directions with said panel.

2,168,241
PACKAGING MACHINE
George A. Robinson, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application February 24, 1938, Serial No. 192,216
6 Claims. (Cl. 93—6)



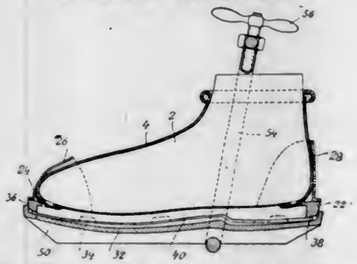
1. In a top closing device for a packaging machine, in combination, a pair of spreader arms for producing an elongated fold in a lining bag having side seams, and means cooperating with said spreader arms for preventing the side seams from opening up during the spreader operation.

2,168,242
WINDOW REGULATOR
John H. Roethel, Detroit, Mich., assignor to Marvel Equipment Corporation, Detroit, Mich., a corporation of Michigan
Application August 27, 1938, Serial No. 227,219
10 Claims. (Cl. 268—126)



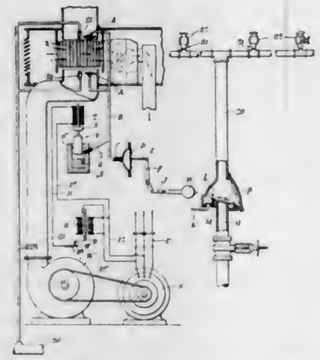
1. A window regulator comprising a pair of intersecting crossed arms pivoted together at the locality of their intersection, the inner end of one arm having a set pivotal connection with a support in a window well and the outer end thereof having a sliding connection in a longitudinal direction with the lower edge of a window glass, the inner end of the other crossed arm having a corresponding sliding connection with a support in the window well and its outer end having a connection with the lower edge of said glass, and a third swinging arm for swinging said crossed arms in unison and adapted to pass between the crossed arms during the operation thereof, said third swinging arm being pivotally connected adjacent one end to said last named crossed arm at or near its outer end by means movable longitudinally of the third arm during operation of the regulator, the sliding connection of the inner end of said crossed arm permitting bodily displacement of the pivot of the crossed arms away from the end of the third arm as the latter passes between the crossed arms.

2,168,243
METHOD FOR THE PRODUCTION OF SHOES
Hans Rollmann, Koeln-Marienburg, Germany, assignor, by mesne assignments, to Ludwig H. Grunebaum, New York, N. Y.
Application March 23, 1934, Serial No. 717,029
In Germany March 9, 1932
4 Claims. (Cl. 18—59)



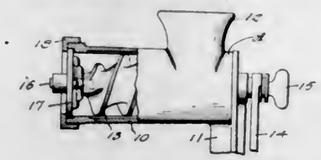
1. The method of forming a shoe which comprises applying an upper to a last, placing a mold for an intermediate sole against the upper, introducing unvulcanized rubber composition which during vulcanization expands and becomes porous into said mold, placing toe cap forming material upon said upper and in communication with the interior of said mold, placing a toe cap mold over said material and vulcanizing said rubber onto said upper and toe cap forming material under pressure created by expansion of the rubber during vulcanization.

2,168,244
RETARD DEVICE FOR AUTOMATIC FIRE CONTROL SYSTEMS
Edward H. Rouse, Thomaston, Conn., assignor to Automatic Sprinkler Company of America, Cleveland, Ohio, a corporation of Delaware
Application December 18, 1934, Serial No. 758,005
25 Claims. (Cl. 169—17)



17. In combination, a fire detector system constructed and arranged to operate upon an abnormal rate of rise of temperature external to said system, means for rendering said system ineffective for operation during a period of time when the abnormal rate of rise of temperature is artificially produced, and means for automatically restoring said system to effective and normal operation at the end of such period of time to again render it responsive to a predetermined rate of rise of temperature.

2,168,245
KNIFE FOR MEAT CHOPPERS
William R. Rush and Raymond W. Rush, Mulberry, Kans.
Application July 18, 1938, Serial No. 219,871
1 Claim. (Cl. 146—189)



A cutter for a food chopper having a cylinder, a worm in said cylinder, a perforated disc stationarily fitting said cylinder next to the worm, comprising a hub for fitting the worm for turning therewith, a plurality of outwardly tapered substantially half circular arch formations on said hub and extending radially therefrom to provide dual cutting blades to each of said formations and also double cutting edges companion to the said blades, the blades being of uniform thickness with respect to each other, one cutting edge of each dual cutting blade being cut into medially thereof to effect a gap in the said cutting edge, and a saddle between the hub and the worm and having portions extending over the double cutting blades to points adjacent to the gaps, the said saddle at the extensions thereof being shaped correspondingly to the arch formations, the said saddle being for maintaining three-point contact of the cutting edges of the blades with the perforated disc on the turning of the worm.

2,168,246
PROCESS OF MAKING FROTHED, CELLULAR, OR SPONGELIKE PRODUCT OF COLLOIDAL ORIGIN
Thomas Lewis Shepherd, London, England
No Drawing. Application July 30, 1937, Serial No. 156,606. In Great Britain July 30, 1936
4 Claims. (Cl. 99—81)

1. The process of making a food product which consists in intimately mixing with water cassava flour to form a dough, gelatinizing, cooling, dividing into flakes or pieces and drying them to the extent that the moisture content remaining therein is from 8 to 12% and immersing them in a hot edible oil at a temperature from 210 to 220° C., and thereby exploding and expanding them.

2,168,247
SPINDLE AND SPINDLE BEARING
Carl Staufert, Stuttgart-Bad Cannstatt, Germany
Application February 4, 1939, Serial No. 254,645
In Germany February 8, 1938
6 Claims. (Cl. 308—152)

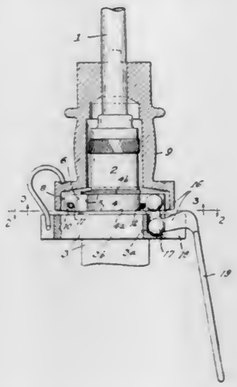
1. A footstep bearing construction for a rapidly rotating vertical or slightly inclined spindle which is supported in a tubular bolster case or housing having a substantially circular inner wall; said construction comprising a sleeve which receives the lower end of the spindle and provides a lateral bearing for the lower end of the spindle, circumferentially spaced recesses in the outer wall of the sleeve, button members having portions extending from respective recesses for engagement with the circular wall, interengaging means between the buttons and the walls of the recesses for holding the buttons from becoming detached from the sleeve when the latter is removed from the bolster case or housing, and radially acting springs in said recesses and bearing outwardly against the button members.

2,168,248
DEVICE ANCILLARY TO SPINNING SPINDLES AND THE LIKE
Carl Staufert, Stuttgart-Bad Cannstatt, Germany
Application February 14, 1939, Serial No. 256,322
In Germany February 17, 1938
12 Claims. (Cl. 57—130)



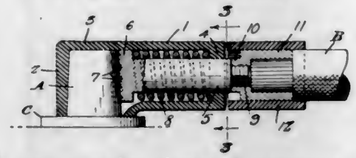
1. A demountable adapter for spinning spindles characterized by having a detachable resilient coupling means arranged for and being operable to secure the adapter against rotation and longitudinal shifting on the spindle.

2,168,249
BRAKE FOR SPINNING OR TWISTING SPINDLES
Carl Staufert, Stuttgart-Bad Cannstatt, Germany
Application March 17, 1939, Serial No. 262,437
In Germany April 1, 1938
5 Claims. (Cl. 57—88)



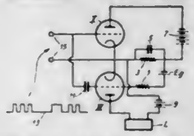
1. A braking mechanism for a textile spindle having a housing, comprising arcuate shoe members seated for floating movement in a guiding groove of the housing, an annular spring which engages an undercut groove in faces of the shoes which are directed endwise of the spindle, whereby the spring will maintain itself in place and be housed by the shoes.

2,168,250
NONCORROSIVE ELECTRICAL CONNECTOR
Carl C. Toiberg and Benjamin A. Koerner, Glendale, Calif., assignors of one-fifth to Rose A. Toiberg, one-fifth to Loraine I. Koerner, and one-fifth to Jerrell Babb
Application May 4, 1938, Serial No. 206,045
2 Claims. (Cl. 173—259)



1. A non-corrosive electrical connector for a storage battery cable, comprising a one piece housing of insulating material including a closure cap portion having an open lower end, a cylindrical portion formed on the cap portion for disposal laterally thereof and having an open outer end, said cap portion shaped for loosely fittingly receiving a post of a battery therein and being of a length for the lower end thereof to engage the top of the battery for the housing to completely enclose the post to exclude foreign matter therefrom, a flange restricting the open outer end of the cylindrical portion and providing a shoulder, a plunger clamp in the housing and including a shank mounted for slidable movement in the cylindrical portion and through the open end thereof, a head formed on the shank and having a grooved arcuate outer face for cooperation with the cap portion to set up a clamping engagement with the post, said head providing a shoulder at its juncture with the shank, a coil spring surrounding the shank and engaged with the flange and shoulder for urging the head against the post, a cable coupling member detachably secured to the shank, and insulating means surrounding and enclosing the extending end of the shank and the coupling member.

2,168,251
SYNCHRONIZING SYSTEM
Rudolf Urtel, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application May 20, 1936, Serial No. 80,692
In Germany May 15, 1935
3 Claims. (Cl. 178—69.5)



1. In a television system, the method of synchronizing a television receiver which includes the steps of receiving line synchronizing signals of predetermined time duration transmitted sequentially with frame synchronizing signals having a time duration greater than that of the said line signals, said frame signals being spaced from said line signals in time duration by a signal-free interval large compared with the time interval between said line signals and large compared with the duration of the said frame signal, preparing for the generation of a synchronizing impulse during the duration of the space between said line and frame signals, and initiating the generation of the said impulse with the commencement of the frame synchronizing signal.

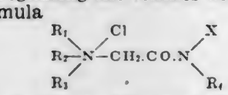
2,168,252
ORNAMENTAL SHEET MATERIAL
Adolph Wertheim, Brooklyn, N. Y., assignor to I. Miller & Sons, Inc., Long Island City, N. Y., a corporation of New York
Application June 13, 1938, Serial No. 213,367
3 Claims. (Cl. 69—21)



1. Ornamental sheet material of the character described comprising reptile skin having portions consisting of relatively large scales, and lines of stitching passed through said skin and disposed in said scales for imparting to said portions consisting of said relatively large scales the appearance of a reptile skin having substantially smaller scales, and lines of zig-zag stitching passed through portions of said skin at the scale-edges and overlapping adjacent scales at said edges.

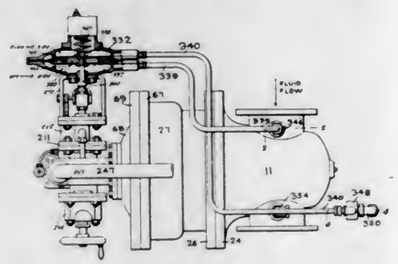
2,168,253
PROCESS OF DRESSING TEXTILES
Gerhard Balle and Georg Schulz, Frankfort-on-the-Main, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application October 6, 1936, Serial No. 104,335. In Germany October 10, 1935
3 Claims. (Cl. 91—68)

3. A process of dressing textiles which comprises impregnating the textiles with a compound of the formula



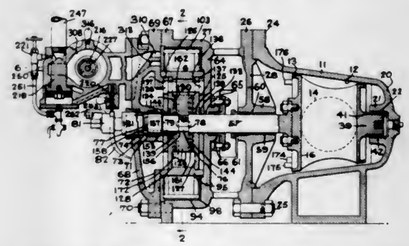
where R_1, R_2, R_3 and R_4 are alkyl radicals, at least one R being an aliphatic hydrocarbon radical having more than 6 carbon atoms, and X represents H or a methyl group.

2,168,254
VALVE
Robert Bischoff, York, Pa., assignor to S. Morgan Smith Company, York, Pa., a corporation of Pennsylvania
Application December 18, 1935, Serial No. 54,998
4 Claims. (Cl. 137—153)



1. The combination with a fluid conduit having a main valve therein for opening and closing said conduit and power operated means for operating said valve, of automatic control mechanism for said power means responsive to fluid flow conditions in said conduit, comprising a fluid pressure actuated member having a valve opening pressure chamber at one side thereof and a valve closing pressure chamber at the other side thereof, a Venturi passage through which fluid flowing in said conduit is adapted to pass means for inducing a flow through said venturi from the flow through said conduit, means communicating the pressure in said conduit at the upstream side of said main valve to the valve opening pressure chamber, and a connection for communicating the pressure at the throat of said venturi to said valve closing pressure chamber.

2,168,255
VALVE
Robert Bischoff, Baltimore, Md., assignor to S. Morgan Smith Company, York, Pa., a corporation of Pennsylvania
Original application December 18, 1935, Serial No. 54,998. Divided and this application March 10, 1939, Serial No. 260,906
5 Claims. (Cl. 137—139)

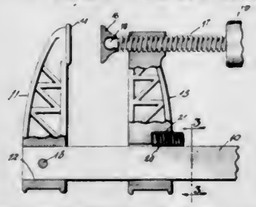


1. The combination with a valve body having a plug movable therein for controlling communication through the valve, said plug having an operating stem, mechanism for operating the plug including a fluid pressure operated piston operatively connected with said stem, a control valve device for controlling operating fluid to said piston, means for controlling the operation of said control valve device and including a pilot valve, means operatively connecting said plug stem with said control valve operating means, and an auxiliary pilot valve device for said control valve device operated by said connecting means.

2,168,256
PROCESS FOR DESULPHURIZATION OF ALKYL PHENOLS
Martin de Simó, Piedmont, and Aloysius Paul Brady, Oakland, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application June 6, 1938, Serial No. 212,126
8 Claims. (Cl. 260—627)

1. In a process for desulphurizing alkyl phenols containing organic sulphur compounds, the steps of contacting said alkyl phenols in the liquid state at a non-dehydrating temperature above 250° C. for a time sufficient to desulphurize with a reagent comprising a finely divided metal selected from the group consisting of copper, iron, cobalt and nickel in an amount at least 15% in excess of that required to convert sulphur removable from the alkyl phenols by conversion to the higher sulphide of said metal.

2,168,257
CLAMP
Delbert L. Farmer, Cincinnati, Ohio, assignor to The Cincinnati Tool Company, Norwood, Ohio, a corporation of Ohio
Application July 19, 1937, Serial No. 154,382
1 Claim. (Cl. 144—303)

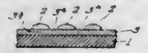


A clamp comprising a bar, a pair of jaws on said bar, one of said jaws being adjustable toward the other, said adjustable jaw including a bore traversed by the bar, said jaw including a recess therein adjacent to said bore, a short section of screw threaded into said recess, the axis of said screw being generally parallel with the bar, and the threads of the screw providing a series of cross edges engaging the bar, said edges adapted to bite into the bar and grip the same when said jaw is canted.

2,168,258
GEAR LUBRICANT
Gerald M. Fisher, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 4, 1937, Serial No. 162,548
7 Claims. (Cl. 196—151)

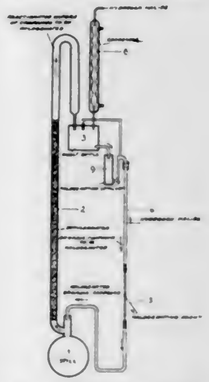
1. A resinous substance soluble in petroleum, having a thickly viscous to solid consistency, a blackish color and the property of increasing the adhesiveness of petroleum gear lubricants when mixed therewith, said substance being the residue from the distillation of naphthenic acids obtained from petroleum fractions heavier than gasoline.

2,168,259
PHOTOELECTRICALLY RESPONSIVE LAYER
Paul Görlich, Dresden, Germany, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany
Original application May 3, 1937, Serial No. 140,449. Divided and this application August 29, 1938, Serial No. 227,292. In Germany February 22, 1936
3 Claims. (Cl. 250—27.5)



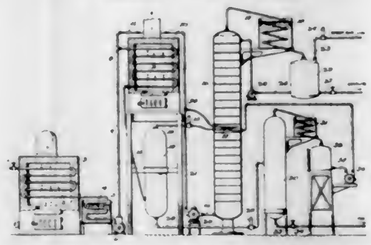
1. A method of producing a minutely subdivided photoelectrically responsive layer upon a carrier of insulating material provided with a metallic coating, including the steps of depositing on the metallic coating of said carrier unfused selenium particles in sufficient quantity to produce from said selenium particles owing to their surface tension a screen-like layer composed of selenium dots, removing those portions of the metallic coating from said carrier which are not covered by selenium dots, removing the selenium dots, thereby exposing those portions of the metallic coating formerly covered by selenium, and then applying a photoelectrically responsive metal to the exposed dot-like portions of the screen-like metallic coating.

2,168,260
PROCESS OF PREPARING MONOHALOGENATION PRODUCTS
Paul Heisel and Albert Hendschel, Gersthofen, near Augsburg, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application November 2, 1936, Serial No. 108,910
In Germany November 10, 1934
5 Claims. (Cl. 260—539)



1. The process of monohalogenating organic compounds which are liquid at the halogenation temperature and contain at least one atom capable of being substituted by halogen which comprises blowing the halogen through a capillary counter-current to the liquid organic compound to be halogenated, flowing in a thin cylindrical stream at a temperature lower than the boiling point of the monohalogen compound obtained.

2,168,261
METHOD OF PRODUCING LIGHT HYDROCARBONS
Robert M. Isham, Okmulgee, Okla., assignor of three-fourths to William B. Pine, Okmulgee, Okla.
Application December 14, 1932, Serial No. 647,281
2 Claims. (Cl. 196—10)

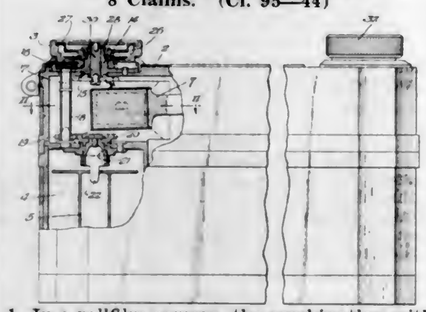


1. In a method of producing light hydrocarbons, the step of compressing an unsaturated hydrocarbon gas to a pressure of at least 600 lbs. per square inch, mixing said gas with oil obtained at a subsequent point in the process, heating said mixture to the polymerization temperature of the unsaturated hydrocarbons while under said pressure, separating the mixture resulting from polymerization into a liquid fraction and a vaporous and gaseous fraction, distilling the liquid fraction to separate the oils from the tars, and returning the separated oils as the oil mixed with said compressed gas.

2,168,262
EXTREME PRESSURE LUBRICANT
Edwin N. Klemgard and Vernon L. Ricketts, Martinez, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application May 25, 1936, Serial No. 81,683
12 Claims. (Cl. 87—9)

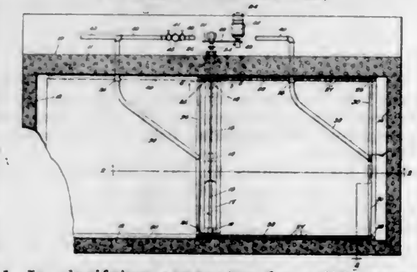
1. A lubricating composition comprising a lubricant and an organic ester of a sulphonic acid the quantity of ester being insufficient to substantially change the viscosity of the lubricant.

2,168,263
ROLL FILM CAMERA
Heinz Küppenbender, Dresden, Germany, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany
Application February 16, 1939, Serial No. 256,810
In Germany February 8, 1938
8 Claims. (Cl. 95—44)



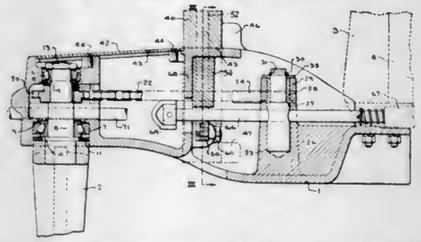
1. In a rollfilm camera, the combination with a camera casing having a top wall, of a film rewinding member on said top wall, a rotatably mounted stub-shaft within said camera casing adapted to drivingly engage a film spool when the latter is inserted in said casing, said stub-shaft and rewinding member being spaced from each other, a range finder within said camera casing below the top wall thereof, said range finder including a prism bar forming the mirror base thereof, one end of said prism bar being positioned in the space between said rewinding member and said film spool engaging stub-shaft, and means drivingly connecting said rewinding member and said stub-shaft and extending around said end of said prism bar.

2,168,264
CLARIFYING APPARATUS
William B. Marshall, Milwaukee, Wis., assignor to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin
Application December 1, 1936, Serial No. 113,670
8 Claims. (Cl. 210—55)



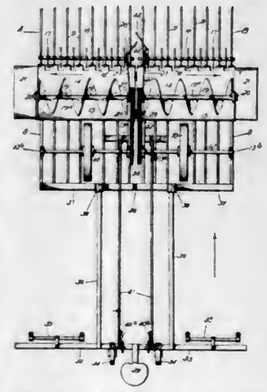
1. In clarifying apparatus for solids-carrying liquids, a settling chamber; a plurality of tandem arranged suction heads extending transversely of the chamber substantially from wall to wall thereof and disposed for travel over adjacent longitudinal areas of the floor of said chamber to withdraw settled solids therefrom; members connected to the ends of said heads for maintaining them in spaced relation and supporting them for said travel in proximity to the floor surface; a suction line connected to said heads; and means engaging said spacing members for moving said heads back and forth over said floor areas.

2,168,265
TRACTOR COUPLING
James M. Martin, Jackson, Mich., assignor to Jaxon Farm Equipment Company, Jackson, Mich., a corporation of Michigan
Application November 1, 1937, Serial No. 172,143
13 Claims. (Cl. 280—33.13)



1. A device for securing farm implements and the like having frames of predetermined configurations to a tractor or the like, comprising a nose on the front of the tractor for rigid supporting engagement with an implement frame for pushing and guiding the implement by the tractor, and a plurality of axially movable pins for securing an implement frame to said nose, whereby any one of several implements may be operatively secured to the tractor.

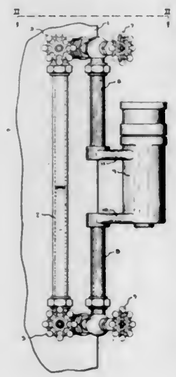
2,168,266
METHOD AND MECHANISM FOR WINDROWING
William H. McElwain, Denver, Colo., assignor of one-half to Paul M. Clark and one-half to John M. Eckley, both of Denver, Colo.
Application June 8, 1936, Serial No. 84,145
17 Claims. (Cl. 56—376)



1. The method of windrowing mowed grasses

and the like, which comprises raking mowed grasses in a course between deposits of previously mowed grasses, and distributing the raked grasses in windrows at opposite sides of the raked course, on other deposits of mowed grasses.

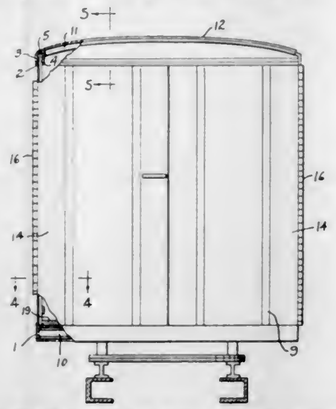
2,168,267
WATER-LEVEL CONTROL
Rollo O. Monroe, Three Rivers, Mich., assignor to The Johnson Corporation, Three Rivers, Mich., a corporation of Michigan
Application April 12, 1937, Serial No. 136,298
3 Claims. (Cl. 137—101)



1. In a boiler control for connection to variously spaced horizontally extending gauge glass openings of boilers or the like, the combination of a vertical level control mechanism housing, a tube extending horizontally from a fixed point on said housing adjacent the lower end thereof, a second tube extending horizontally from a fixed point on said housing above said first named fixed point, nipples secured in the ends of said tubes, the nipple secured to first named tube projecting vertically downwardly and the nipple secured to said second tube projecting vertically upwardly, Y's for connection to gauge glass openings and a gauge glass supported by said Y's, said nipples being connected to said Y's, whereby said housing may be connected between gauge glass openings of any predetermined spacing and selectively positioned between said gauge glass openings by using nipples of the required length.

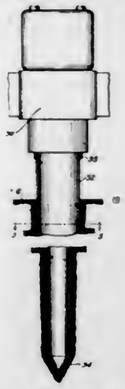
2,168,268
VEHICLE BODY
William C. Nabors, Mansfield, La.
Application September 12, 1938, Serial No. 229,430
1 Claim. (Cl. 296—137)

A vehicle body comprising a roof and side and front walls, a joint between said roof and walls comprising a substantially U-shaped metal frame having side flanges and a cross-web, the upper margins of the walls extending up between said side flanges but terminating an appreciable distance beneath said cross web, at least one of said side flanges being welded to said walls, transverse rafters each having a transverse head and a depending leg, the ends of the heads and legs of said rafters abutting and being welded to the inner side flanges of said frame, the upper surfaces of the rafters being flush with the upper side of said cross-web, and a sheet metal roof on the



rafters whose side and front margins overlie and are welded to the web of said frame.

2,168,269
PILE FOUNDATION SUPPORT
Chester A. Orr and Edmund W. Riemenschneider, Canton, Ohio, assignors to The Union Metal Manufacturing Company, Canton, Ohio, a corporation of Ohio
Application October 12, 1932, Serial No. 637,454
4 Claims. (Cl. 61—53)



1. A foundation support which consists in a substantially rigid, tapered, metal tube, having a nose integral with its small end driven downward into the ground by power applied to its upper end.

2,168,270
HYPODERMIC-INJECTION APPARATUS
Ellwood S. Paisley and Allen F. Peters, Philadelphia, Pa., assignors to The National Drug Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 21, 1936, Serial No. 112,094
18 Claims. (Cl. 128—214)

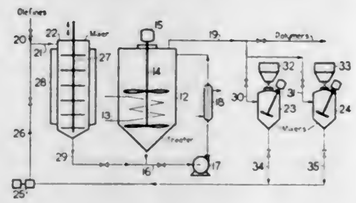
1. In a hypodermic-injection apparatus, an elastic reservoir closure, comprising a body portion having an internal chamber, an outlet from said chamber leading through the normal inner surface of said body, a channel leading from said

chamber towards but terminating short of the normal outer surface of said body, and a second



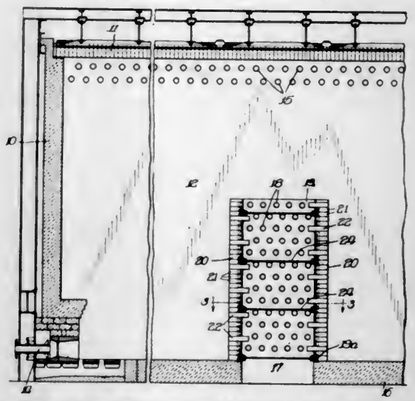
channel leading from the inner surface of said body but terminating short of said chamber.

2,168,271
PROCESS FOR THE POLYMERIZATION OF UNSATURATED COMPOUNDS
Johannes Nicolaas Jacobus Perquin, Rotterdam, and Hendrikus Stokman, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application September 21, 1937, Serial No. 164,832
In the Netherlands September 26, 1936
7 Claims. (Cl. 196—78)



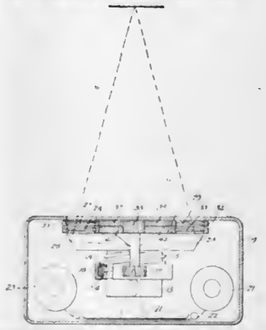
4. In the batch process of polymerizing a vapor phase cracked hydrocarbon distillate with active aluminum chloride to produce lubricating oil the steps of dispersing a quantity of fresh aluminum chloride in a sufficient volume of liquid fully polymerized olefines containing spent aluminum chloride from a preceding batch to form a liquid substantially uniform aluminum chloride dispersion, maintaining same as a liquid pool at a polymerization temperature suitable for the production of lubricating oil, gradually incorporating into it a limited quantity of said distillate, while preventing by cooling a substantial temperature change of the mixture, discontinuing the addition of distillate and maintaining the mixture undergoing polymerization at the polymerization temperature for a time sufficient to complete the polymerization to lubricating oil, whereby the catalyst is spent withdrawing a portion of the polymerized product containing spent catalyst from the process and employing the remaining portion containing residual spent aluminum chloride as a dispersing medium for the fresh catalyst in the next batch treatment.

2,168,272
STILL CONSTRUCTION AND THE LIKE
Charles F. Pollen, Winnetka, Ill., assignor to M. H. Detrick Company, Chicago, Ill., a corporation of Delaware
Application July 15, 1935, Serial No. 31,303
18 Claims. (Cl. 122—356)



1. In still construction and the like, the combination with upright tube sheets for positioning the still tubes, of refractory walls extending along the margins of the tube sheets and built up of refractories having intermeshing engagement with one another, and anchor means engaging end portions of some of the refractories in the opposite walls and holding the walls in engagement with the vertical margins of the tube sheets.

2,168,273
STEREO-OPTIC INSTRUMENT
Hans Sauer and Otto Vierling, Dresden, Germany, assignors to Zeiss Ikon Aktiengesellschaft, Dresden, Germany
Application October 30, 1937, Serial No. 171,999
In Germany October 30, 1936
6 Claims. (Cl. 95—18)



1. In a stereo-optic device of the character described, the combination of a lens means for focusing the lens with respect of an object to be photographed, a stereo-attachment in front of said lens and comprising a pair of fixedly mounted ray deflecting means forming a stereoscopic base for producing in the focal plane of said lens a pair of stereoscopic images of the object to be photographed, adjustable auxiliary optical means in front of each of said pair of fixedly mounted ray deflecting means for altering the direction of the rays of light passing through said lens in

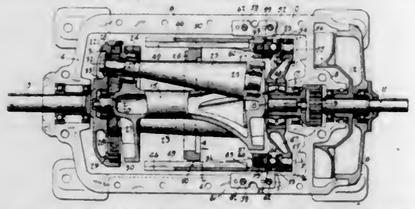
accordance with the distance of the object in front of said attachment, and means operatively connecting said lens focusing means with said adjustable auxiliary optical means for adjusting the latter whenever said lens is adjusted.

2,168,274

VARIABLE SPEED TRANSMISSION

Walter P. Schmitter, Milwaukee, Wis., assignor to The Falk Corporation, Milwaukee, Wis., a corporation of Wisconsin

Application August 4, 1937, Serial No. 157,261
18 Claims. (Cl. 74—281)



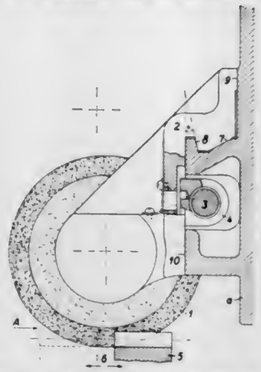
1. In a variable speed transmission the combination of a plurality of tapered rollers mounted to revolve in planetary fashion about a central axis with their longitudinal axes inclined relative to said axis, an encircling ring contacting said rollers and moveable lengthwise of the latter to regulate their motion, and means including a longitudinally extended structure tiltable about said central axis and engaged with said ring for sustaining the torque load on said ring.

2,168,275

SLIDEWAY FOR WHEEL CARRIAGES OF GEAR-GRINDING MACHINES

Arthur Stephan, Chemnitz, Germany, assignor to J. E. Reinecker Aktiengesellschaft, Chemnitz, Germany

Application September 21, 1937, Serial No. 164,869
In Germany September 26, 1936
2 Claims. (Cl. 51—166)



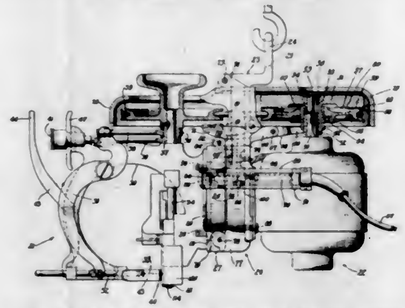
1. In a grinding machine having a frame and a grinding wheel carriage slidably supported in onesided overhanging position by said frame, the combination with two spaced track members, an upper and a lower one, projecting from said frame, the upper track member being formed at the top with a recess of V-cross-sectional shape presenting two inclined guide ways, a primary and a secondary one, of a guide flange of corresponding cross sectional shape formed at the rear of the wheel carriage and downwardly projecting therefrom for engagement with said primary and secondary guide ways, a substantially vertically disposed third guide way formed at the frame proper above said upper track member and extending parallel thereto, an extension upwardly projecting from the wheel carriage and presenting a guide face for cooperation with said third guide way, a substantially vertically disposed fourth guide way formed at the front of said lower track member, and another guide face provided at the lower end of the wheel carriage for cooperation with said fourth guide way.

2,168,276

PORTABLE SEWING APPARATUS

John P. Weis, Nyack, N. Y., assignor to Willcox & Gibbs Sewing Machine Company, New York, N. Y., a corporation of New York

Application September 1, 1936, Serial No. 98,855
6 Claims. (Cl. 112—11)



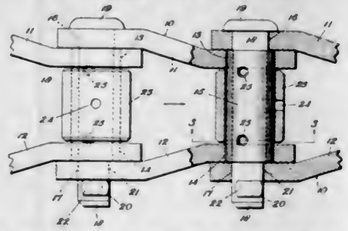
1. In an apparatus of the character described, the combination of a main frame; a pivoted frame connected to said main frame and having a raised vertical position closely adjacent one side thereof and a lowered position extending horizontally relative thereto; means for normally maintaining said pivoted frame in said raised position; means for arresting movement of said pivoted frame in said lowered position; a motor unit on said main frame; a sewing unit on said pivoted frame; a driving connection between said motor and sewing unit; and means on said main frame adapted to be associated with a suspension apparatus.

2,168,277

SPROCKET CHAIN LUBRICATION

Brinton Welser and Maurice G. Jewett, Milwaukee, Wis., assignors to Chain Belt Company, Milwaukee, Wis., a corporation of Wisconsin

Application June 21, 1937, Serial No. 149,533
3 Claims. (Cl. 74—257)



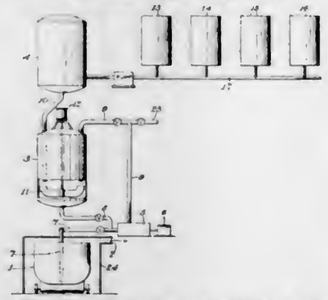
1. A sprocket chain link comprising a pair of spaced flat-faced side bars connected by a sleeve arranged to receive a chain pintle, and a roller journalled upon said sleeve between said side bars with clearances between its ends and the inner faces of said bars, said sleeve having apertures extending through its wall for conducting oil to the internal bearing surfaces of the sleeve, said apertures being substantially tangent to the inner flat faces of said side bars and extending across the clearances between the roller ends and side bars.

2,168,278

APPARATUS FOR THINNING VARNISHES

Harold R. Ayres, Chicago, Ill., and Seth L. Winslow, Parlin, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application February 3, 1937, Serial No. 123,814
1 Claim. (Cl. 134—26)



Apparatus for thinning varnishes which comprises a series of tanks for containing solvents to be used in thinning the varnish, a mixing tank, a pipe line connecting the said tanks to the mixing tank, a second mixing tank and a pipe line leading directly from the first mixing tank to a point near the bottom of the second mixing tank, means for agitating the contents of the second mixing tank, a pump, a pipe line leading from a point near the bottom of the second mixing tank to the pump, a cooking kettle at the lowest point in the system, a pipe line leading directly from the cooking kettle to the pump and a further pipe line connected thereto leading to the bottom of the said second mixing tank whereby hot varnish may be pumped from the cooking kettle upwardly through the pump to the pipe line leading to the point near the bottom of the said second mixing tank and whereby thinner may be run from the bottom of the said second mixing tank downwardly by gravity to the cooking kettle.

2,168,279

RUBBER DERIVATIVE

Benjamin S. Garvey, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York

No Drawing. Application May 26, 1936,
Serial No. 81,873
3 Claims. (Cl. 260—771)

1. Process for the preparation of thermoplastic compositions which comprises isomerizing rubber dissolved in an inert organic solvent therefor by bringing the solution in contact with from 1.5 to 2.5 moles of anhydrous hydrofluoric acid (as such) per isoprene unit of the rubber.

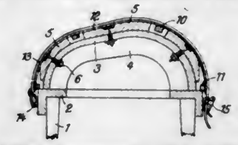
2,168,280

METHOD AND APPARATUS FOR CONSTRUCTION OF AIRCRAFT AND THE LIKE

Hanns Klemm, Boblingen, Germany, assignor to William Rhodes Davis, New York, N. Y.

Application November 27, 1937, Serial No. 176,780
In Germany November 5, 1936
3 Claims. (Cl. 244—120)

1. A method of building segments of light load-carrying shells for aircraft fuselages, wings and the like, which segments are to be subsequently secured together, said method comprising the steps of inserting a plurality of thin transverse and longitudinal stabilizing members loosely into grooves of a mold having a shape corresponding substantially to that of a longitudinal segment of the shell, allowing for an appreciable clearance between the walls of the grooves and the stabilizing members, stretching a skin of thin, stiff material tightly over said mold and loose stabilizing



members while supporting the latter substantially in a position in which the outer surfaces thereof define with the major part of the mold surface the desired inner shape of the shell segment, adhering said skin permanently to the entire outer surface of said longitudinal and transverse stabilizing members without puncturing the skin while allowing the stabilizing members to find their own bearings against the skin, and removing the rigidly stabilized shell segment with the affixed stabilizing members in a substantially radial direction from the mold.

2,168,281

RESINOID BONDED ABRASIVE ARTICLE

Baalis Sanford, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

No Drawing. Application January 12, 1938,
Serial No. 184,635
5 Claims. (Cl. 51—280)

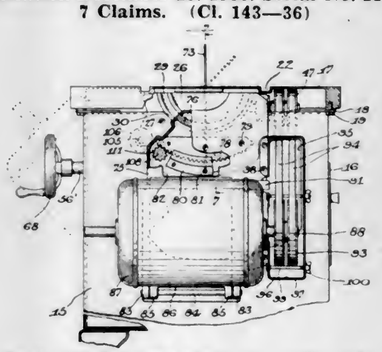
1. An abrasive article comprising abrasive grains bonded by a resinoid bond containing prevulcanized, non-bonding, substantially non-resilient hard rubber particles interspersed therethrough.

2,168,282

CIRCULAR SAW

Herbert E. Tautz, Milwaukee, Wis., assignor to The Delta Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin

Application December 18, 1936. Serial No. 116,576
7 Claims. (Cl. 143—36)



6. In a circular saw machine or the like, the combination of a tiltable arbor support having a sector gear, a tiltable motor support having a sector gear, said supports having individual tiltable mountings, a cutter arbor on said arbor support, a motor on said motor support, a driving

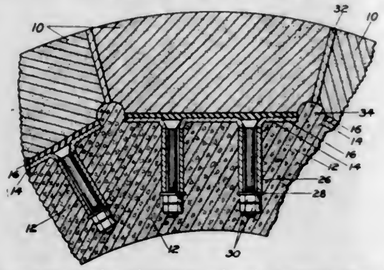
belt connecting said arbor and the motor shaft, means for tilting one of said supports, and a shaft having gearing connections with said sector gears for causing said supports to tilt in unison.

2,168,283

SEGMENTAL ABRASIVE WHEEL

Hugo W. H. Beth, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application November 3, 1937, Serial No. 172,575
1 Claim. (Cl. 51—206)



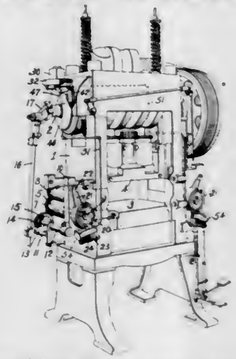
A segmental grinding wheel comprising a rotatable concrete body having surfaces fitting against the bottoms of a set of mounting plates, a set of premade imperforate segments of ceramic bonded abrasive material, a separate metal mounting plate secured by a layer of cement to the under side of each segment and forming the sole radial support thereof, the segments being arranged as an annulus and forming a peripheral grinding surface, filling material in the spaces between the segments and forming therewith a unitary structure, a set of fastening devices secured solely to the plates and means for securing said devices to the cement body and holding the plates and segments irremovably thereon.

2,168,284

BRAKE MEANS FOR POWER PRESS FEED ROLLS

Edward V. Crane, Brooklyn, N. Y., and Norman O. Steele, Genoa, Ohio, assignors to E. W. Bliss Company, Brooklyn, N. Y., a corporation of Delaware

Application November 15, 1937, Serial No. 174,546
9 Claims. (Cl. 271—2.4)



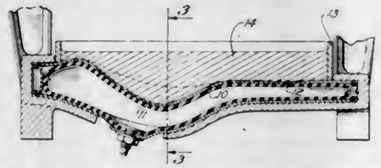
7. In a machine of the class described, a plurality of intermittently operated work-feeding means, individual brakes for each of said means, and mechanism automatically operable at a predetermined point in the cycle of operation of said work-feeding means to actuate each brake to prevent overriding of said means, said mechanism including a liquid cylinder and piston for each brake, a pressure cylinder for each brake cylinder, and common means operable to exert pressure in each pressure cylinder.

2,168,285

METHOD OF MAKING SHOE PRESS PADS

Willard C. Durham, Winchester, Mass., and Leonard E. Best, Summit, N. J., assignors, by direct and mesne assignments, to Compo Shoe Machinery Corporation, Boston, Mass., a corporation of Delaware

Original application July 26, 1935, Serial No. 33,320. Divided and this application August 28, 1937, Serial No. 161,355
3 Claims. (Cl. 18—55)



2. A method of making a shoe pressing member which comprises providing a broken in leather pad casing which has acquired a pocketed contour approximating the contours of shoe bottoms through previous use, casting a pattern directly from the shoe engaging surface of said casing, decreasing the severity of the curvatures of said pattern while retaining the approximate contours imposed by said casing, molding a rubber diaphragm from said pattern, and incorporating said diaphragm as one wall of a hollow pressing member adapted to be filled with a fluid pressure medium.

2,168,286

WETTABLE MATERIAL

Warner Eustis, Newton, and Alan W. Vint, Walpole, Mass., assignors to The Kendall Company, Boston, Mass., a corporation of Massachusetts

No Drawing. Application October 10, 1936, Serial No. 105,080
2 Claims. (Cl. 91—68)

1. As an article of manufacture, a resilient, soft, absorbent fibrous material consisting of an aggregation of fibres of the class consisting of natural fibres such as cotton, wool, linen and silk, which of themselves contain natural water repellant constituents to an extent rendering them difficultly wettable by water, said fibres having on their surfaces a dried, adherent coating of a hydrophilic wetting agent which also includes in the molecule a hydrophobic group, said agent being present in quantity sufficient to impart to the fibrous material the property of capillary absorbency of water, said material having a sinking time, as herein defined, of less than two minutes.

2,168,287

GLASS SLAB FOR THE CONSTRUCTION OF WALLS AND ILLUMINATED COVERS

Aldo Favaron, Milan, Italy, assignor to the firm "Fidenza" Società Anonima Vetraria, Milan, Italy

Application June 28, 1938, Serial No. 216,405
In Italy January 19, 1938
7 Claims. (Cl. 72—42)

1. A glass slab or block for the construction of translucent walls and covers, comprising a pair of glass plates having internal marginal recesses and arranged to form the front and back faces of the slab, non-vitreous plates engaged in said recesses and disposed between said glass plates to form



therewith a closed hollow block or slab of which said non-vitreous plates form the sides, and marginal ridges on said glass plates extending beyond said sides in such a manner that the marginal ridges and non-vitreous sides of adjacent slabs or blocks constitute a cement receiving joint space.

2,168,288

EXTRUDING SHEET MATERIAL

Albert C. Fischer, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio

Application December 12, 1927, Serial No. 239,566
Renewed April 17, 1935
6 Claims. (Cl. 18—55)



1. The method of making construction units which comprises extruding plastic material into a continuous sheet of irregular thickness transversely, and subjecting same to pressure means.

2,168,289

CONSTRUCTIONAL MATERIAL

Albert C. Fischer, Chicago, Ill., assignor to The Philip Carey Manufacturing Company, a corporation of Ohio

Application December 12, 1927, Serial No. 239,567
11 Claims. (Cl. 18—47.5)



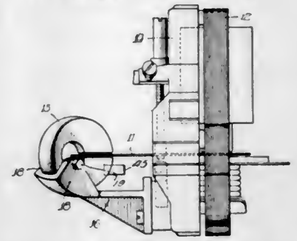
1. The process of preparing constructional material by heating a waterproofed binder, presenting same to a suitable steam-heated mixer having a kneading action, introducing into said binder sections of burlap, mixing the binder and burlap until the individual strands have separated out, presenting said mixture to suitable extrusion means and reducing same to proper form.

2,168,290

ELECTRIC METER

Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois

Application May 2, 1936, Serial No. 77,559
11 Claims. (Cl. 171—34)



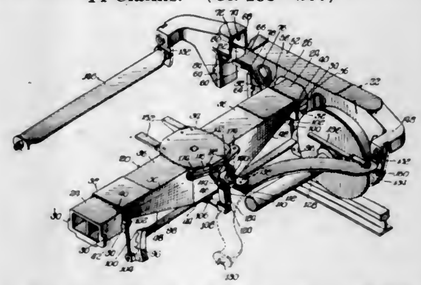
2. A watthour meter, including a continually rotatable disc, a driving unit for rotating said disc, and a damping unit for retarding the rotation of said disc, including a pair of generally C-shaped permanent magnets formed of a material having a coercive force of at least 180 oersteds, and straddling the disc with their pole faces close to one another, said magnets being wider from side to side at their centers than at their poles.

2,168,291

CAR TRUCK AND CLASP BRAKE ASSEMBLY

William C. Hedgcock, Wilmette, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application December 17, 1934, Serial No. 757,747
14 Claims. (Cl. 188—207)



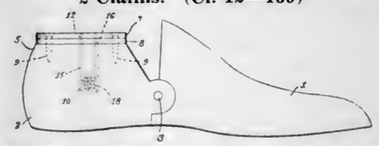
1. A truck bolster of box girder construction having a seat at the end for supporting the same in a side frame and a brake hanger bracket on the underside adjacent said seat for swingingly supporting a brake beam.

2,168,292

LAST

Paul S. Jones, Brockton, Mass., assignor to Jones & Vining, Inc., Brockton, Mass., a corporation of Massachusetts

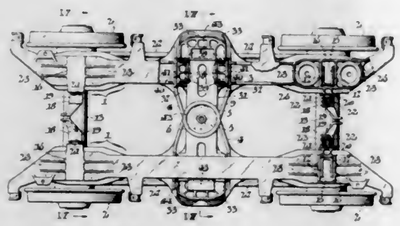
Application May 11, 1938, Serial No. 207,369
2 Claims. (Cl. 12—139)



1. An improved last having in combination a yielding protecting member and yielding thimble-

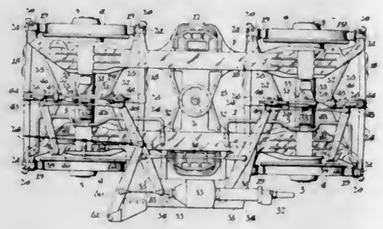
supporting means, in combination with an interlocking construction between said thimble and the protector.

2,168,293
RAILWAY CAR TRUCK
William F. Kiesel, Jr., Hollidaysburg, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 25, 1936, Serial No. 81,658
25 Claims. (Cl. 105—182)



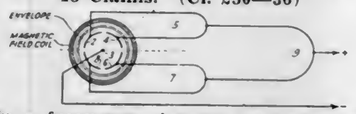
1. A railway car truck comprising a frame with side components interpivoted for capacity to move up and down relatively; axles with wheels at opposite ends; tubular journal housings enclosing the axles between the wheels and having upward projections engaged in guide boxes on the side components of the frame; and cushioning means interposed between the axle housings and the frame components.

2,168,294
RAILWAY CAR BRAKE MECHANISM
William F. Kiesel, Jr., Hollidaysburg, Pa., assignor to The Pennsylvania Railroad Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 18, 1936, Serial No. 85,831
7 Claims. (Cl. 188—56)



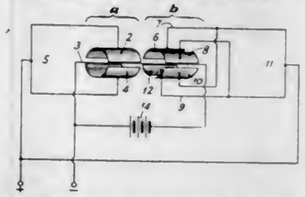
1. In combination, a railway car truck having a frame with longitudinal side components connected centrally by a transverse pivot, and the wheel axle journals confined to up and down movement in guides at opposite ends of the frame components; and brake mechanism comprising brake shoes on the beams for the individual wheels, and means connecting the beams with the axle journals operative during relative pivotal movement between the side components of the frame and relative up and down movement between the axles and the frame to affect the brake beams for maintenance of the shoes substantially in circumferential alignment with the wheels.

2,168,295
OSCILLATOR AND FREQUENCY CHANGER
Gerrit de Vries and Carl G. A. von Lindern, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application April 15, 1937, Serial No. 137,040
In the Netherlands June 5, 1936
13 Claims. (Cl. 250—36)



1. In a frequency changer, a magnetron discharge tube oscillator having a central cathode and a plurality of at least three cylindrically segmented anodes arranged in two systems, a circuit tuned to the fundamental frequency of said oscillator and forming an interconnection between one anode system and the anodes of the other system, and means including at least one resonant loop forming an interconnection between two anodes of the same system for developing oscillations at a frequency harmonically related to said fundamental frequency.

2,168,296
MICROWAVE OSCILLATOR AND ASSOCIATED CIRCUIT
Gerrit de Vries and Carl G. A. von Lindern, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application June 3, 1937, Serial No. 146,178
In the Netherlands June 5, 1936
4 Claims. (Cl. 250—36)



1. An oscillator in combination with means for producing energy harmonically related to the frequency of the oscillations generated, said oscillator comprising a magnetron discharge tube having a system of cylindrically formed anode segments and a linear cathode coaxially disposed within the anode system, said segments being arranged in two groups lengthwise of the cathode, the ratio between the numbers of segments in said two groups being the same as the ratio between the two frequencies which are harmonically related, magnetic field exciting means for producing a rotating cloud of electrons within the two groups of anode segments, a resonant circuit interconnecting the anode segments of the group having the lesser number of segments, a resonant circuit interconnecting different pairs of diametrically opposed anode segments of the other group, and means for causing one of the two frequencies generated to control the other frequency.

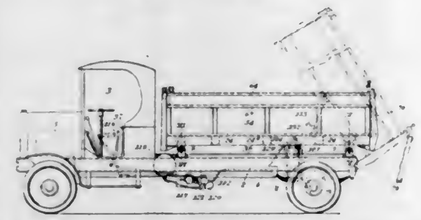
2,168,297
CLOSURE
Carl Edward Voke, Columbus, Ohio
Application February 5, 1937, Serial No. 124,277
7 Claims. (Cl. 221—60)

1. A closure for collapsible containers and the like, comprising a hollow shell adapted to be mounted on the neck of said container, a plunger slidably mounted in the upper end of said shell, said plunger having a flange formed on its upper end, said flange adapted to seat on the top part of said shell when in its lowermost position, said plunger having a tapering body below said flange, a groove formed on the lower part of said plunger,



a compression spring mounted in surrounding relation to said plunger and having its upper end abutting against a ledge formed in the upper part of said shell and its lower end abutting against the the lower flange formed on said plunger, said spring adapted to normally maintain said plunger in its lowermost position, all the parts of said closure being combined as a separate unit and applied as a unit to the container.

2,168,298
DUMP VEHICLE
Camille P. Galanot, Youngstown, Ohio, assignor to The Commercial Shearing & Stamping Company, a corporation of Ohio
Original application February 28, 1928, Serial No. 257,707. Divided and this application January 30, 1931, Serial No. 512,289
32 Claims. (Cl. 105—276)



5. In a construction of the class described, a truck frame, a body mounted on and above said truck frame for selective tilting movement to either side about horizontal axes located one adjacent each side of the truck frame, sides on said body pivotally mounted thereon at their lower edges and lengthwise of the body, means for tilting the body to either side, latching means for holding the sides of the body in closed position, and means for controlling the particular axis about which the body tilts and for simultaneously unlatching the side of the body adjacent the axis about which the body is tilted.

22. In a vehicle, a frame, hollow girders extending across the frame, a body mounted for tilting movement thereon, bars supported by said girders for axial movement to lock the body for tilting in a predetermined direction on the application of an upward thrust thereto, a rock shaft extending transversely of said girders, and means on said shaft for shifting said bars.

25. In a three-way dump body having hinged gates, the combination with means for selectively locking an edge of the body against elevation to control the direction of dumping to either side or to one end thereof, of means actuated by said means for precluding operation of all of said gates except that in the direction of dumping.

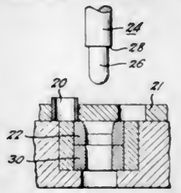
29. In a vehicle, a frame, a body mounted thereabove for tilting movement, discharge gates pivoted to the body, means for selectively locking an edge of the body to the frame, means operated thereby for selectively locking said gates against opening, and mechanism for operating each of said gates on tilting movement of the body in a predetermined direction, including a bell crank pivoted to the body.

2,168,299
INSULATING PARTITION
William Arthur Cook, Chicago, Ill.
Application June 15, 1937, Serial No. 148,323
5 Claims. (Cl. 20—4)



1. An insulating partition consisting substantially entirely of a unitary interlocking mass of discrete granular particles of expanded slag, said granular particles all being of a carefully graded size such as to be held by a $\frac{1}{4}$ inch mesh screen and passing through a substantially $\frac{1}{2}$ inch mesh screen, each of the particles being separate and unattached to the other particles of the mass.

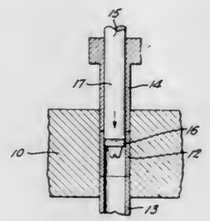
2,168,300
SIZING POROUS METAL BEARINGS
John C. Lemming, Dayton, Ohio, assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 29, 1937, Serial No. 171,658
6 Claims. (Cl. 205—8)



1. The method of sizing a porous metal bushing formed from sintered powdered metal without causing burnishing at the inner surface thereof which comprises the steps, of assembling the bushing on a sizing mandrel having a diameter substantially equal to the desired inside diameter of said bushing after the same has been sized; causing the assembled bushing and mandrel to be passed through a successsion of sizing dies of progressively decreasing diameter in a continuous movement while preventing relative movement between the bushing and the mandrel, whereby the bushing is compressed radially in-

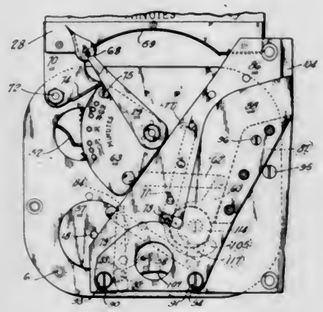
wardly to the mandrel diameter in successive stages without substantially closing the pores at the inner surface thereof.

2,168,301
METHOD OF SIZING POROUS METAL BUSHINGS
John Conrad Lemming and James H. Davis, Dayton, Ohio, assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 18, 1937, Serial No. 148,899
5 Claims. (Cl. 29—149.5)



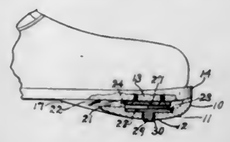
1. The method of making a sized sintered porous metal bushing having substantially unclosed pores leading to its outer surface, comprising: making a sintered porous metal bushing having a slightly smaller outer diameter than the final bushing, loosely inserting the unsized bushing in a sizing die having a bore of substantially the desired outer diameter of the bushing, then passing an expanding punch endwise thru the bushing bore while maintaining the bushing stationary relative to the die and thereby progressively expanding the bushing from end to end thereof radially outward into pressure contact with the outer die bore, for slightly expanding the bushing radially outwardly and sizing the outer surface thereof without closing the pores leading to the outer surface by a burnishing action and then removing the bushing from the die.

2,168,302
COIN-CONTROLLED TIME-MEASURING METER
John B. McGay and George E. Nicholson, Tulsa, and Carl C. Magee, Oklahoma City, Okla.
Application March 16, 1936, Serial No. 69,172
14 Claims. (Cl. 194—19)



1. In a device of the class described: a time measuring signal flag; a time indicating hand; a first actuating mechanism for moving said hand in one direction for a predetermined distance in a given predetermined period of time; automatic mechanism for moving said indicating hand in the opposite direction; a second actuating mechanism for driving said automatic mechanism; brake means for normally restraining said second named actuating mechanism, adapted to release said second actuating mechanism to operate upon contact by a coin, and adapted to stop said second actuating mechanism after said automatic mechanism has returned to normal position after setting said hand; and a power unit for driving both actuating mechanisms.

2,168,303
DANCING TAP
Albert L. Sothen, Chicago, Ill.
Application August 12, 1938, Serial No. 224,422
17 Claims. (Cl. 36—8.3)



1. A tap comprising a plate-like metallic body adapted for attachment to a bottom part of a dancing shoe, said body containing a crowning portion centrally of its lower face and a recessed seat centrally in its upper face portion provided with an aperture extending down therefrom thru said crowning portion, sound channels provided in said upper face portion to extend to the side edges of said shoe part and emit the sound from said recessed seat in various directions and directly beyond the bottom of the shoe, and metallic sound providing means including means mounted movably in said seat, whereby to produce a strong and clear sound effect.

2,168,304
COMPOSITION FOR PRESERVING FLOWERS
August A. Meyer, River Forest, Ill.
No Drawing. Application July 5, 1938, Serial No. 217,587
11 Claims. (Cl. 71—2)

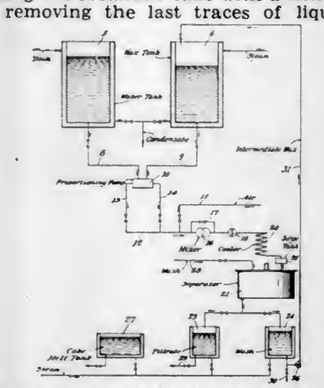
1. In a composition adapted to be added to and dissolved in water in which cut flowers are placed for substantially prolonging the life of said cut flowers and for causing their continuous growth and development, a dry mixture consisting of calcium hypo-chlorite, aluminum sulphate and iron oxide, said mixture of said ingredients being soluble in water and adapted to sterilize the water, to act as an astringent, to strengthen the fibrous structure of the flower petals and stems, and to deter oxidation of the flower petals.

2,168,305
PROCESS FOR MAKING HYDROXAMIC ACIDS
Samuel B. Lippincott, Terre Haute, Ind., assignor to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana
No Drawing. Application July 3, 1937, Serial No. 151,837
6 Claims. (Cl. 260—500)

1. A process for the production of hydroxamic acids from primary nitrohydrocarbons which comprises subjecting the nitrohydrocarbon to the action of an acid having a dissociation constant in excess of 10^{-2} and which is not strongly oxidizing in character, the reaction being effected in the presence of minimal concentrations of water.

2,168,306
METHOD OF SEPARATING WAX
August Henry Schutte, Westfield, N. J.
Application September 29, 1938, Serial No. 232,263
5 Claims. (Cl. 196—17)

1. The method of removing a specified melting point wax from a mixture of various melting point waxes or waxes and oils, which comprises intimately mixing the wax solution with air, to form a mixture of wax and air with the air finely dispersed throughout the mixture, said wax having a large interfacial area solidifying the desired waxes in the aerated mixture at temperatures below the melting point of the charge, centrifugally separating such mixture to remove substantially all of the liquid material from the solid material which is retained as a cake, subsequently washing the resultant cake with a non-solvent liquid, removing the last traces of liquid and

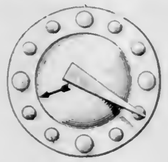


thereafter removing said cake as the desired end product.

DESIGNS

AUGUST 1, 1939

115,901
DESIGN FOR A TIMEPIECE FACE
Stevan Banick, Astoria, Long Island, N. Y.
Application January 21, 1939, Serial No. 82,516
Term of patent 3½ years



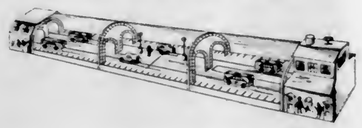


The ornamental design for a timepiece face, as shown.

115,902
DESIGN FOR A TREE BASE
Joseph T. Barton, Chicago, Ill.
Application October 17, 1938, Serial No. 80,512
Term of patent 3½ years

The ornamental design for a tree base, as shown and described.

115,903
DESIGN FOR A TOY
Samuel I. Berger, Newark, N. J.
Application February 25, 1938, Serial No. 75,400
Term of patent 7 years



The ornamental design for a toy, as shown.

115,904
DESIGN FOR A COMBINED DIAL AND HAND FOR A CLOCK OR SIMILAR ARTICLE
Richard H. Bourne, El Reno, Okla.
Application February 13, 1939, Serial No. 82,947
Term of patent 14 years



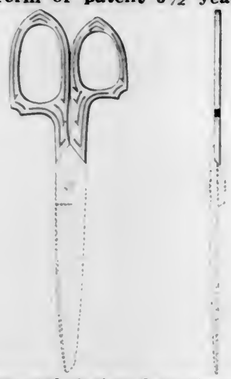
The ornamental design for a combined dial and hand for a clock or similar article, substantially as shown.

115,905
DESIGN FOR A CLOCK CASE
Leo I. Bruce, Framingham, Mass., assignor to Warren Telechron Company, a corporation of Maine
Application April 20, 1939, Serial No. 84,440
Term of patent 14 years



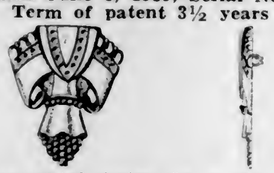
The ornamental design for a clock case, as shown.

115,906
DESIGN FOR SCISSORS
Edward W. Carpenter, Fairfield, Conn.
Application January 17, 1938, Serial No. 74,371
Term of patent 3½ years



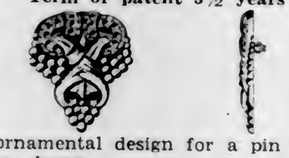
The ornamental design for scissors, as shown and described.

115,907
DESIGN FOR A PIN OR SIMILAR ARTICLE
David Cooper, Brooklyn, N. Y.
Application June 3, 1939, Serial No. 85,328
Term of patent 3½ years



The ornamental design for a pin or similar article, as shown.

115,908
DESIGN FOR A PIN OR SIMILAR ARTICLE
David Cooper, Brooklyn, N. Y.
Application June 3, 1939, Serial No. 85,330
Term of patent 3½ years



The ornamental design for a pin or similar article, as shown.

115,909
DESIGN FOR A CLIP OR SIMILAR ARTICLE
David Cooper, Brooklyn, N. Y.
Application June 3, 1939, Serial No. 85,331
Term of patent 3½ years



The ornamental design for a clip or similar article, as shown.

115,910
DESIGN FOR A CLIP OR SIMILAR ARTICLE
David Cooper, Brooklyn, N. Y.
Application June 3, 1939, Serial No. 85,332
Term of patent 3½ years



The ornamental design for a clip or similar article, as shown.

115,911
DESIGN FOR A CLIP OR SIMILAR ARTICLE
David Cooper, Brooklyn, N. Y.
Application June 3, 1939, Serial No. 85,333
Term of patent 3½ years



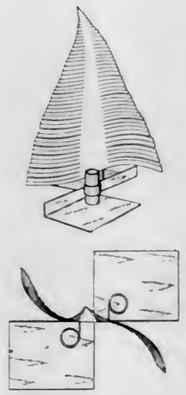
The ornamental design for a clip or similar article, as shown.

115,912
DESIGN FOR A CLIP OR SIMILAR ARTICLE
David Cooper, Brooklyn, N. Y.
Application June 3, 1939, Serial No. 85,334
Term of patent 3½ years



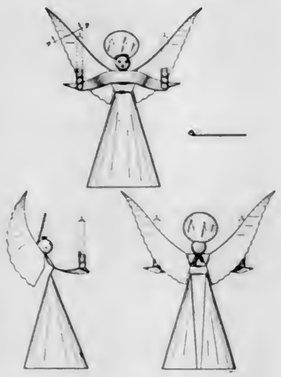
The ornamental design for a clip or similar article, as shown.

115,913
DESIGN FOR A TABLE DECORATION OR ARTICLE OF SIMILAR NATURE
Donald Oliver Crandall, Minneapolis, Minn., assignor of one-half to Cooperative Crafts, Inc., Minneapolis, Minn., a corporation of Minnesota, and one-half to Eleanor N. Poehler, Minneapolis, Minn., doing business under name of The Guild
Application May 22. 1939, Serial No. 85,134
Term of patent 7 years



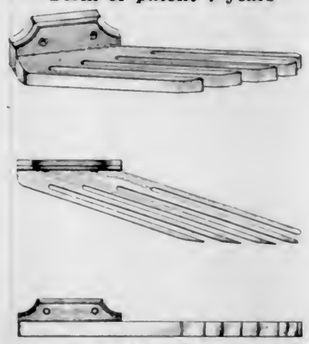
The ornamental design for a table decoration or article of similar nature, substantially as shown.

115,914
DESIGN FOR A STATUETTE
Donald Oliver Crandall, Minneapolis, Minn., assignor of one-half to Eleanor N. Poehler, Minneapolis, Minn., doing business under name of The Guild
Application May 22, 1939, Serial No. 85,135
Term of patent 7 years



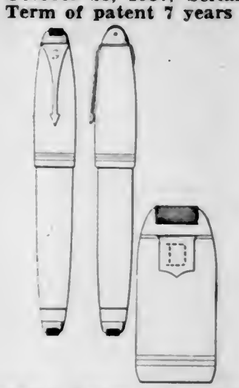
The ornamental design for a statuette, substantially as shown.

115,915
DESIGN FOR A PANTS HANGER
Charles Eric Daniels, Los Angeles, Calif.
Application April 15, 1939, Serial No. 84,312
Term of patent 7 years



The ornamental design for a pants hanger, as shown.

115,916
DESIGN FOR A COMBINED CHECK MARKER AND FOUNTAIN PEN OR SIMILAR ARTICLE
Giuseppe Donato, Philadelphia, Pa.
Application October 28, 1937, Serial No. 72,488
Term of patent 7 years



The ornamental design for a combined check marker and fountain pen or similar article, as shown.

115,917
DESIGN FOR A GARMENT HANGER
James F. Fewster, Trenton, N. J.
Application April 14, 1939, Serial No. 84,296
Term of patent 3½ years



The ornamental design for a garment hanger, substantially as shown and described.

115,918
DESIGN FOR A GARMENT HANGER
James F. Fewster, Trenton, N. J.
Application April 14, 1939, Serial No. 84,297
Term of patent 3½ years



The ornamental design for a garment hanger, substantially as shown and described.

115,919
DESIGN FOR A GARMENT HANGER
James F. Fewster, Trenton, N. J.
Application April 14, 1939, Serial No. 84,298
Term of patent 3½ years



The ornamental design for a garment hanger, substantially as shown and described.

115,920
DESIGN FOR A GARMENT HANGER
James F. Fewster, Trenton, N. J.
Application April 14, 1939, Serial No. 84,299
Term of patent 3½ years



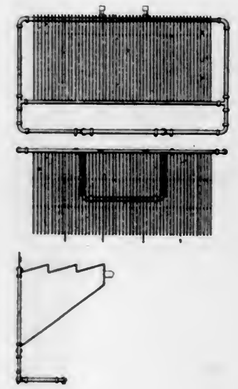
The ornamental design for a garment hanger, substantially as shown and described.

115,921
DESIGN FOR A CIGARETTE HOLDER OR SIMILAR ARTICLE
Claudia M. Gemmill, York, Pa.
Application May 6, 1939, Serial No. 84,849
Term of patent 14 years



The ornamental design for a cigarette holder or similar article, as shown.

115,922
DESIGN FOR A DISPLAY STAND FOR HOSIERY OR THE LIKE
Dale J. Gordon and Carlton F. Cook, Loveland, Colo.
Application April 26, 1939, Serial No. 84,584
Term of patent 7 years



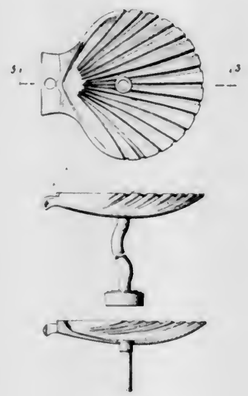
The ornamental design for a display stand for hosiery or the like, as shown.

115,923
DESIGN FOR A SLIPPER OR SIMILAR ARTICLE
Charles A. Grosvenor, Worcester, Mass., assignor to C. A. Grosvenor Shoe Co., Worcester, Mass., a corporation of Massachusetts
Application June 14, 1939, Serial No. 85,489
Term of patent 3½ years



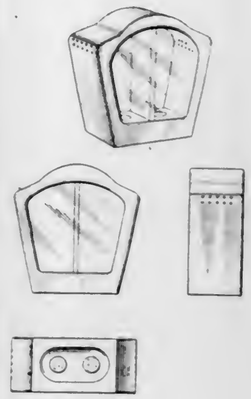
The ornamental design for a slipper or similar article, substantially as shown.

115,924
DESIGN FOR A COMBINED SURFACE DRAINER AND STOPPER
William Hillenbach, Ardsley, N. Y.
Application October 29, 1938, Serial No. 80,761
Term of patent 3½ years



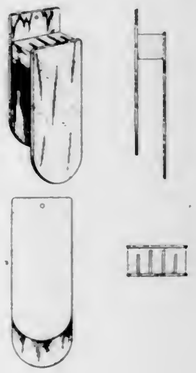
The ornamental design for a combined surface drainer and stopper, as shown and described.

115,925
DESIGN FOR A COMBINED SALT AND PEPPER SHAKER OR THE LIKE
Ralph H. Holmes, Hartington, Nebr.
Application April 1, 1939, Serial No. 83,980
Term of patent 14 years



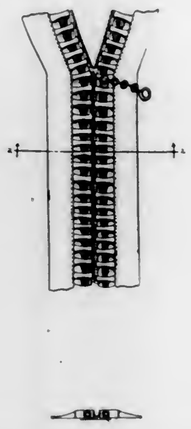
The ornamental design for a combined salt and pepper shaker or the like, as shown and described.

115,926
DESIGN FOR A KNIFE HOLDER
Horner H. Hopkins, Des Moines, Iowa
Application March 6, 1939, Serial No. 83,386
Term of patent 7 years



The ornamental design for a knife holder, substantially as shown.

115,927
DESIGN FOR A SLIDE FASTENER CLOSURE
Ralph Kay, New York, N. Y.
Application April 19, 1939, Serial No. 84,376
Term of patent 3½ years



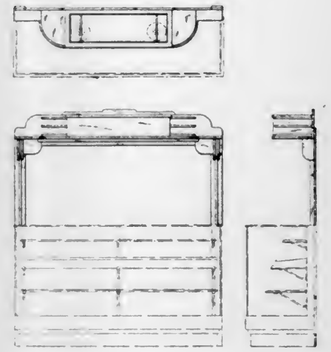
The ornamental design for a slide fastener closure, substantially as shown and described.

115,928
DESIGN FOR A TEA KETTLE
Ralph N. Kircher, West Bend, Wis., assignor to West Bend Aluminum Company, West Bend, Wis., a corporation of Wisconsin
Application November 12, 1938, Serial No. 81,047
Term of patent 14 years



The ornamental design for a tea kettle, as shown.

115,929
DESIGN FOR A DISPLAY COUNTER
Harry E. Krisman, University City, Mo.
Application March 24, 1939, Serial No. 83,808
Term of patent 3½ years



The ornamental design for a display counter substantially as shown and described.

115,930
DESIGN FOR A RING
Max Kronstadt, New York, N. Y.
Application June 8, 1939, Serial No. 85,390
Term of patent 7 years



The ornamental design for a ring, substantially as shown.

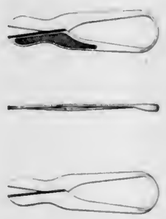
115,931
DESIGN FOR A RING
Max Kronstadt, New York, N. Y.
Application June 8, 1939, Serial No. 85,391
Term of patent 7 years





The ornamental design for a ring, substantially as shown.

115,932
DESIGN FOR CLIPPERS
Cyril Larocque, Willimansette, Mass.
Application April 27, 1939, Serial No. 84,607
Term of patent 7 years



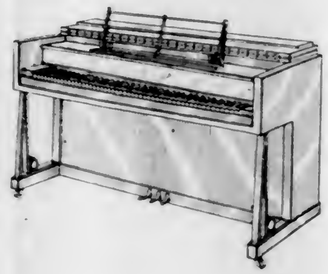
The ornamental design for clippers, substantially as shown.

115,933
DESIGN FOR SUNGLASSES
Jacques E. Maisch, New York, N. Y.
Application June 29, 1939, Serial No. 85,749
Term of patent 3½ years



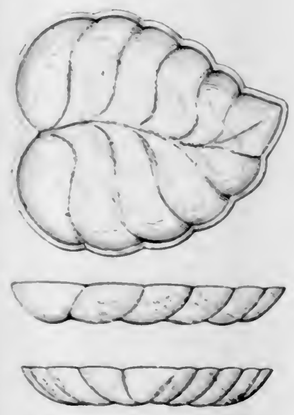
The ornamental design for sunglasses, substantially as shown.

115,934
DESIGN FOR A PIANO
Philip R. Manfré, Philadelphia, Pa., assignor to Lester Piano Company, a corporation of Pennsylvania
Application April 14, 1939, Serial No. 84,284
Term of patent 3½ years



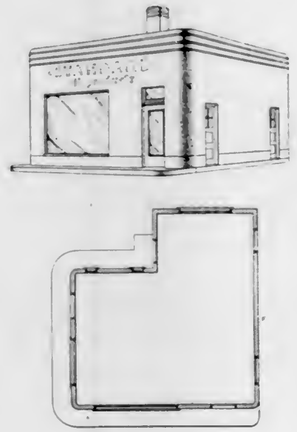
The ornamental design for a piano, substantially as shown.

115,935
DESIGN FOR A DISH OR SIMILAR ARTICLE
Robert A. May, Washington, Pa., assignor to Duncan & Miller Glass Company, Washington, Pa., a corporation of Pennsylvania
Application May 5, 1939, Serial No. 84,808
Term of patent 14 years



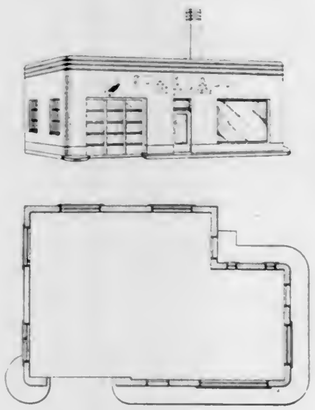
The ornamental design for a dish or similar article, substantially as shown.

115,936
DESIGN FOR A SERVICE STATION BUILDING OR THE LIKE
Ralph O. Munson, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application May 31, 1939, Serial No. 85,253
Term of patent 14 years



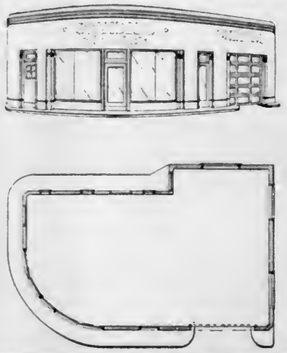
The ornamental design for a service station building or the like, substantially as shown.

115,937
DESIGN FOR A SERVICE STATION BUILDING OR THE LIKE
Ralph O. Munson, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application May 31, 1939, Serial No. 85,254
Term of patent 14 years



The ornamental design for a service station building or the like, substantially as shown.

115,938
DESIGN FOR A SERVICE STATION BUILDING OR THE LIKE
Ralph O. Munson, Chicago, Ill., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application May 31, 1939, Serial No. 85,255
Term of patent 14 years



The ornamental design for a service station building or the like, substantially as shown.

115,939
DESIGN FOR A CLOCK OR SIMILAR ARTICLE
Ivan V. Peterson, Reedley, Calif.
Application March 16, 1939, Serial No. 83,610
Term of patent 14 years



The ornamental design for a clock or similar article, as shown and described.

115,940
DESIGN FOR A PULL TAB FOR SLIDE FASTENERS
Noel J. Poux, Meadville, Pa., assignor to Talon, Inc., Meadville, Pa., a corporation of Pennsylvania
Application October 14, 1928, Serial No. 80,448
Term of patent 14 years



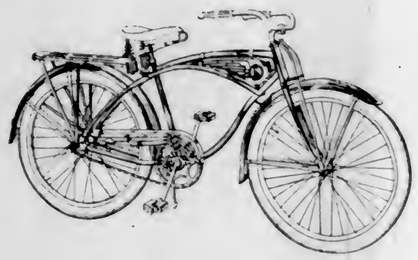
The ornamental design for a pull tab for slide fasteners, substantially as shown and described.

115,941
DESIGN FOR A DISPLAY PLACARD OR THE LIKE
Arthur O. Schilling, Rochester, N. Y., assignor to The Seventh Worlds Poultry Congress and Exposition, Cleveland, Ohio
Application April 14, 1939, Serial No. 84,294
Term of patent 3½ years



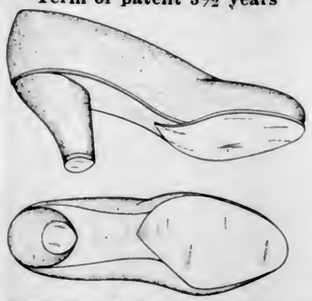
The ornamental design for a display placard or the like, as shown and described.

115,942
DESIGN FOR A BICYCLE
Frank W. Schwinn, Chicago, Ill.
Application April 17, 1939, Serial No. 84,338
Term of patent 14 years



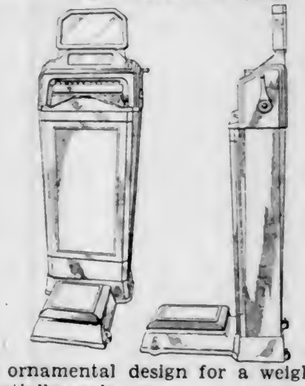
The ornamental design for a bicycle, as shown and described.

115,943
DESIGN FOR A SHOE
David E. Spathelf, University City, Mo.
Application November 21, 1938, Serial No. 81,261
Term of patent 3½ years



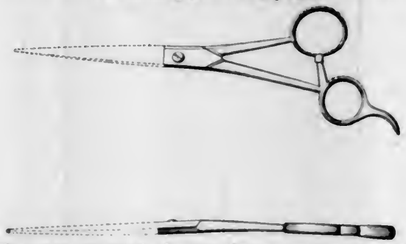
The ornamental design for a shoe, as shown and described.

115,944
DESIGN FOR A WEIGHING SCALE
Burns S. Watling, Chicago, Ill., assignor to Watling Scale Company, Chicago, Ill., a corporation of Illinois
Application May 31, 1939, Serial No. 85,272
Term of patent 14 years



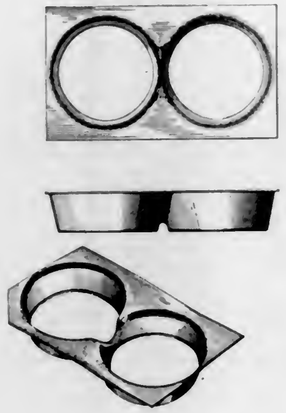
The ornamental design for a weighing scale, substantially as shown.

115,945
DESIGN FOR A PAIR OF SHEARS
Herbert Wester, Millburn, N. J., assignor to the firm Wester Bros., New York, N. Y.
Application April 28, 1939, Serial No. 84,644
Term of patent 14 years



The ornamental design for a pair of shears, substantially as shown.

115,946
DESIGN FOR A BAFFLE PLATE FOR OIL BURNING STOVES
Clarence F. Wiley, Norton, Mass., assignor to Glenwood Range Company, Taunton, Mass., a corporation of Massachusetts
Application April 28, 1939, Serial No. 84,651
Term of patent 3½ years



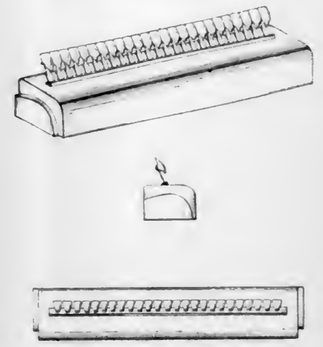
The ornamental design for a baffle plate for oil burning stoves, substantially as shown.

115,947
DESIGN FOR A CANDLE
Lester F. Wilson, San Gabriel, Calif.
Application March 24, 1939, Serial No. 83,807
Term of patent 14 years



The ornamental design for a candle, substantially as shown.

115,948
DESIGN FOR A TOOTH SHADE GUIDE UNIT
Glenn A. Barnes, Philadelphia, Pa., assignor to Universal Dental Company, Philadelphia, Pa., a corporation of Pennsylvania
Application February 17, 1939, Serial No. 83,047
Term of patent 7 years



The ornamental design for a tooth shade guide unit, as shown.

115,949
DESIGN FOR A FACE PLATE FOR A SIGNAL CASING
Medis C. Brady, Detroit, Mich.
Application April 12, 1938, Serial No. 76,456
Term of patent 7 years

The ornamental design for a face plate for a signal casing, substantially as shown and described.

115,950
DESIGN FOR A PIN OR SIMILAR ARTICLE
David Cooper, Brooklyn, N. Y.
Application June 3, 1939, Serial No. 85,329
Term of patent 3½ years



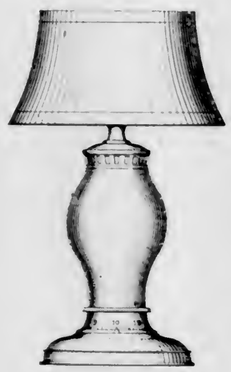
The ornamental design for a pin or similar article, as shown.

115,951
DESIGN FOR A COMBINED LAMP AND RADIO RECEIVING SET
Daniel J. Crowley, Grosse Pointe, Mich.
Application June 6, 1939, Serial No. 85,367
Term of patent 14 years



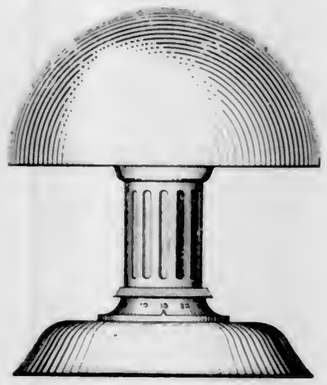
The ornamental design for a combined lamp and radio receiving set, substantially as shown and described.

115,952
DESIGN FOR A COMBINED LAMP AND RADIO RECEIVING SET
Daniel J. Crowley, Grosse Pointe, Mich.
Application June 6, 1939, Serial No. 85,368
Term of patent 14 years



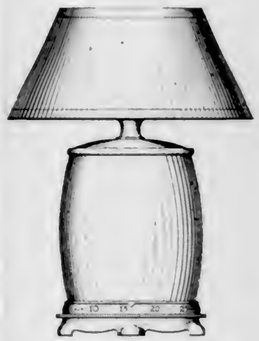
The ornamental design for a combined lamp and radio receiving set, substantially as shown and described.

115,953
DESIGN FOR A COMBINED LAMP AND RADIO RECEIVING SET
Daniel J. Crowley, Grosse Pointe, Mich.
Application June 6, 1939, Serial No. 85,369
Term of patent 14 years



The ornamental design for a combined lamp and radio receiving set, substantially as shown and described.

115,954
DESIGN FOR A COMBINED LAMP AND RADIO RECEIVING SET
Daniel J. Crowley, Grosse Pointe, Mich.
Application June 6, 1939, Serial No. 85,370
Term of patent 14 years



The ornamental design for a combined lamp and radio receiving set, substantially as shown and described.

115,955
DESIGN FOR A COMBINED LAMP AND RADIO RECEIVING SET
Daniel J. Crowley, Grosse Pointe, Mich.
Application June 6, 1939, Serial No. 85,371
Term of patent 14 years



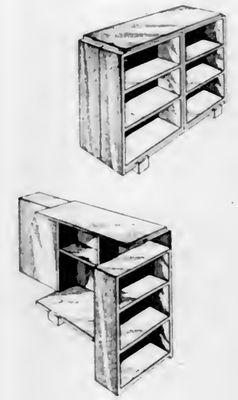
The ornamental design for a combined lamp and radio receiving set, substantially as shown and described.

115,956
DESIGN FOR A BOTTLE
Stanley W. Dennis, Baltimore, Md., assignor to Crown Cork & Seal Company, Inc., Baltimore, Md., a corporation of New York
Application March 24, 1938, Serial No. 76,076
Term of patent 14 years



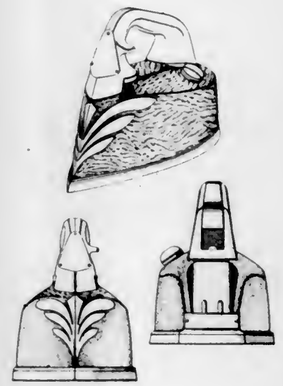
The ornamental design for a bottle, substantially as shown and described.

115,957
DESIGN FOR A CONSOLE BAR CELLARETTE
David Dillon, New York, N. Y.
Application October 19, 1937, Serial No. 72,308
Term of patent 3½ years



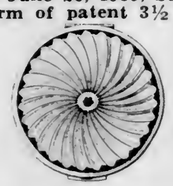
The ornamental design for a console bar cellarette, substantially as shown and described.

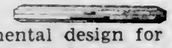
115,958
DESIGN FOR AN ELECTRIC STEAMING IRON
Louis V. Eckstein, St. Louis, Mo., assignor to Steem-Electric Corporation, St. Louis, Mo., a corporation of Missouri
Application May 12, 1939, Serial No. 84,955
Term of patent 7 years



The ornamental design for an electric steaming iron, as shown.

115,959
DESIGN FOR A VANITY CASE OR SIMILAR ARTICLE
Richard T. Gaige, New York, N. Y., assignor to Volupte, Inc., Elizabeth, N. J.
Application June 26, 1939, Serial No. 85,701
Term of patent 3½ years





The ornamental design for a vanity case or similar article, substantially as shown and described.

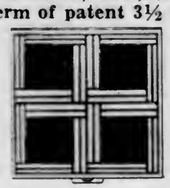
115,960
DESIGN FOR A VANITY CASE OR SIMILAR ARTICLE
Richard T. Gaige, New York, N. Y., assignor to Volupte, Inc., Elizabeth, N. J.
Application June 26, 1939, Serial No. 85,702
Term of patent 3½ years





The ornamental design for a vanity case or similar article, substantially as shown and described.

115,961
DESIGN FOR A VANITY CASE OR SIMILAR ARTICLE
Richard T. Gaige, New York, N. Y., assignor to Volupte, Inc., Elizabeth, N. J.
Application June 26, 1939, Serial No. 85,703
Term of patent 3½ years





The ornamental design for a vanity case or similar article, substantially as shown and described.

115,962
DESIGN FOR A VANITY CASE OR SIMILAR ARTICLE
Richard T. Gaige, New York, N. Y., assignor to Volupte, Inc., Elizabeth, N. J.
Application June 26, 1939, Serial No. 85,704
Term of patent 3½ years

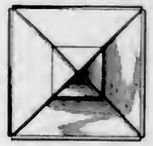




The ornamental design for a vanity case or similar article, substantially as shown and described.

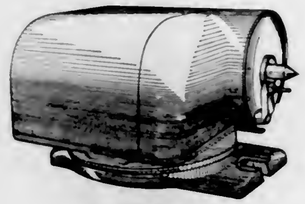
115,963
DESIGN FOR A BUILDING
Edward C. Gledhill, Galion, Ohio, assignor to The Gledhill Road Machinery Company, Galion, Ohio, a stock company of Ohio
Application January 15, 1938, Serial No. 74,327
Term of patent 14 years

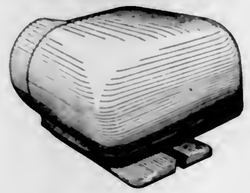




The ornamental design for a building, as shown and described.

115,964
DESIGN FOR A HEADSTOCK FOR MACHINE TOOLS
Milburn A. Hollengreen and Charles R. Mentzer, Waynesboro, Pa., assignors to Landis Tool Company, Waynesboro, Pa.
Application December 16, 1938, Serial No. 81,830
Term of patent 14 years





The ornamental design for a headstock for machine tools, substantially as shown.

115,965
DESIGN FOR A BEVERAGE MIXER RECEPTACLE
Arley U. Hook, Fostoria, Ohio, assignor to Bersted Manufacturing Company, Fostoria, Ohio, a corporation of Ohio
Application March 28, 1939, Serial No. 83,884
Term of patent 7 years





The ornamental design for a beverage mixer receptacle, substantially as shown.

115,966
DESIGN FOR AN OIL LUBRICATOR
Oscar H. Jung, Milwaukee, Wis.
Application February 20, 1939, Serial No. 83,116
Term of patent 14 years



The ornamental design for an oil lubricator, as shown.

115,967
DESIGN FOR A HAIR BRUSH
Peter Müller-Munk, Pittsburgh, Pa., assignor to Pro-phy-lac-tic Brush Company, Northampton, Mass., a corporation of Delaware
Application February 2, 1939, Serial No. 82,738
Term of patent 3½ years

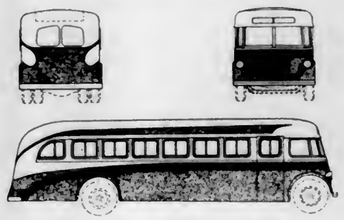






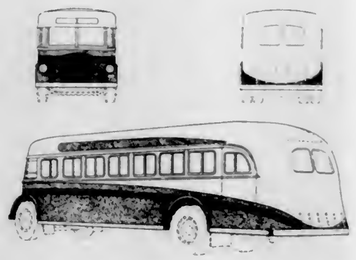
The ornamental design for a hair brush, substantially as shown.

115,968
DESIGN FOR A HIGHWAY VEHICLE
Eric Ramstrum, Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y., a corporation of Delaware
Application June 29, 1938, Serial No. 78,133
Term of patent 14 years



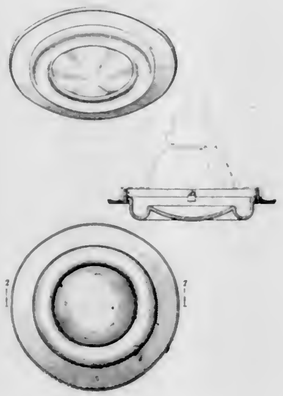
The ornamental design for a highway vehicle, as shown and described.

115,969
DESIGN FOR A HIGHWAY VEHICLE
Eric Ramstrum, Philadelphia, Pa., assignor to American Car and Foundry Motors Company, New York, N. Y., a corporation of Delaware
Application June 29, 1938, Serial No. 78,134
Term of patent 14 years



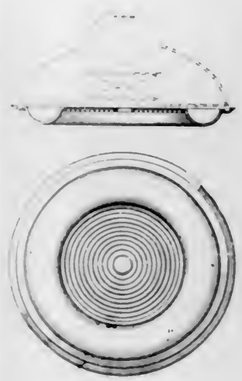
The ornamental design for a highway vehicle, as shown.

115,970
DESIGN FOR A LIGHTING FIXTURE OR SIMILAR ARTICLE
Lemuel L. Stewart, Chicago, Ill.
Application May 10, 1937, Serial No. 69,257
Term of patent 14 years



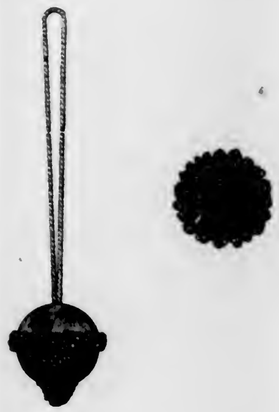
The ornamental design for a lighting fixture or similar article, substantially as shown and described.

115,971
DESIGN FOR A LIGHTING FIXTURE OR SIMILAR ARTICLE
Lemuel L. Stewart, Chicago, Ill.
Application May 10, 1937, Serial No. 69,270
Term of patent 14 years



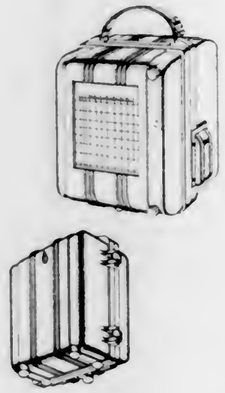
The ornamental design for a lighting fixture or similar article, substantially as shown and described.

115,972
DESIGN FOR A SACHET BALL
Jean E. Vivaudou and Henry G. Lubin, New York, N. Y.
Application May 29, 1939, Serial No. 85,252
Term of patent 14 years



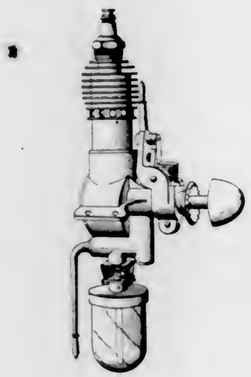
The ornamental design for a sachet ball, as shown.

115,973
DESIGN FOR AN ELECTRICAL RECORDING INSTRUMENT OR SIMILAR ARTICLE
Henry A. Andersen, Swampscott, Mass., assignor to General Electric Company, a corporation of New York
Application March 15, 1939, Serial No. 83,590
Term of patent 14 years



The ornamental design for an electrical recording instrument or similar article, as shown.

115,974
DESIGN FOR A MOTOR FOR TOY AIRPLANES
Thomas Raymond Arden, Freeport, N. Y.
Application May 13, 1939, Serial No. 84,981
Term of patent 14 years



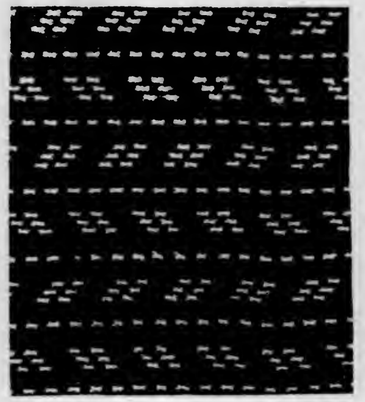
The ornamental design for a motor for toy airplanes, as shown and described.

115,975
DESIGN FOR A SCARF
Sylvia Haggander Bammon, New York, N. Y., assignor to Girl Scouts (Incorporated), New York, N. Y., a corporation of the District of Columbia
Application April 14, 1939, Serial No. 84,283
Term of patent 3½ years



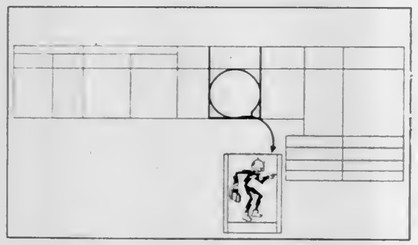
The ornamental design for a scarf, as shown.

115,976
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Edmond P. Bixer, New York, N. Y.
Application June 9, 1939, Serial No. 85,426
Term of patent 7 years



The ornamental design for a textile fabric or similar article, as shown.

115,977
DESIGN FOR A SERVICE BILL BLANK
Ashton B. Collins, Birmingham, Ala.
Application March 30, 1939, Serial No. 83,925
Term of patent 14 years



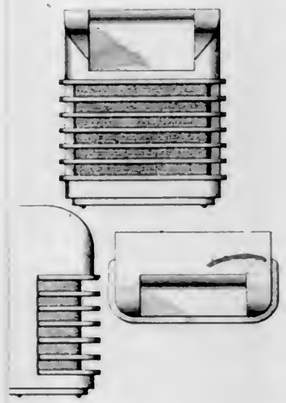
The ornamental design for a service bill blank, as shown.

115,978
DESIGN FOR A TEXTILE FABRIC
Theresa Emmerich, New York, N. Y.
Application June 9, 1939, Serial No. 85,423
Term of patent 3½ years



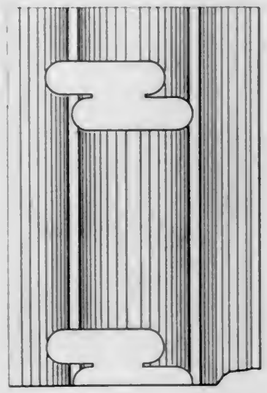
The ornamental design for a textile fabric, substantially as shown.

115,979
DESIGN FOR A RADIO CABINET OR THE LIKE
Bernard W. Przywara, Flint, Mich.
Application June 3, 1939, Serial No. 85,337
Term of patent 7 years



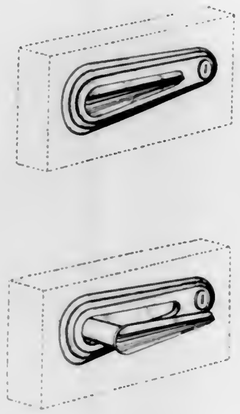
The ornamental design for a radio cabinet or the like, as shown.

115,980
DESIGN FOR WRAPPING PAPER OR SIMILAR ARTICLE
Homer M. Sinclair, Holyoke, Mass., assignor to American Tissue Mills, Holyoke, Mass., a corporation of Massachusetts
Application February 25, 1939, Serial No. 83,210
Term of patent 14 years



The ornamental design for wrapping paper or similar article, as shown and described.

115,981
DESIGN FOR A LOCK SET
Eugene C. Steffens, Chicago, Ill.
Application May 24, 1937, Serial No. 69,522
Term of patent 3½ years



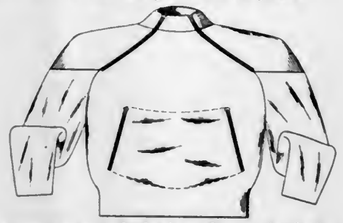
The ornamental design for a lock set, as shown and described.

115,982
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application May 11, 1939, Serial No. 84,922
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

115,983
DESIGN FOR A JACKET
Perkins H. Bailey, New York, N. Y., assignor to Talon, Inc., Meadville, Pa., a corporation of Pennsylvania
Application May 20, 1938, Serial No. 77,310
Term of patent 14 years



The ornamental design for a jacket, substantially as shown and described.

115,984
DESIGN FOR A TEXTILE FABRIC
Curt E. Forstmann, Montclair, N. J.
Application October 24, 1938, Serial No. 80,639
Term of patent 3½ years



The ornamental design for a textile fabric, as described and as shown.

115,985
DESIGN FOR A COAT
David Kaplan, New York, N. Y.
Application June 10, 1939, Serial No. 85,440
Term of patent 3½ years



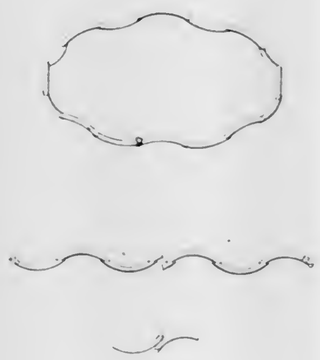
The ornamental design for a coat, substantially as shown.

115,986
DESIGN FOR AN UNDERGARMENT
Mae O'Gorman and Maud E. O'Gorman, Los Angeles, Calif.
Application April 5, 1939, Serial No. 84,047
Term of patent 14 years



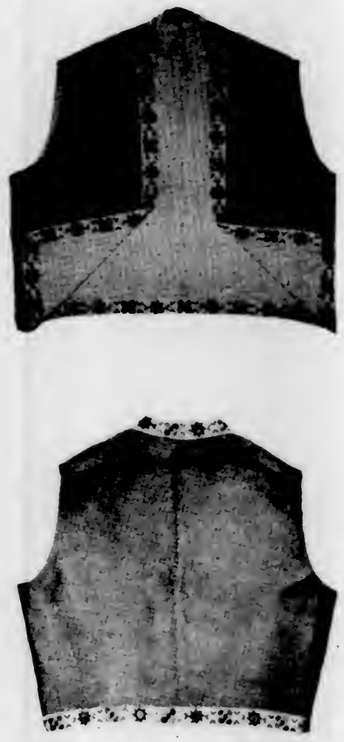
The ornamental design for an undergarment, as shown.

115,987
DESIGN FOR AN ORNAMENTAL BELT
Charles Wahl, New York, N. Y.
Application June 1, 1939, Serial No. 85,282
Term of patent 3½ years



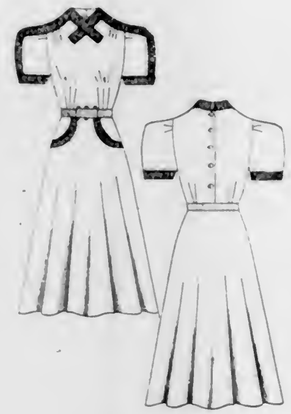
The ornamental design for an ornamental belt, substantially as shown.

115,988
DESIGN FOR A BOLERO
Morris Wartsky, New York, N. Y.
Application January 6, 1939, Serial No. 82,194
Term of patent 3½ years



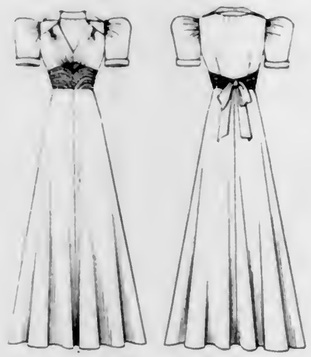
The ornamental design for a bolero, substantially as shown and described.

115,989
DESIGN FOR A DRESS
Vincent de Paul Draddy, New York, N. Y.
Application June 24, 1939, Serial No. 85,657
Term of patent 3½ years



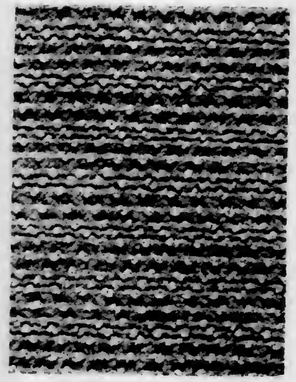
The ornamental design for a dress, substantially as shown.

115,990
DESIGN FOR A DRESS
Rose Feintuck, New York, N. Y.
Application July 1, 1939, Serial No. 85,794
Term of patent 3½ years



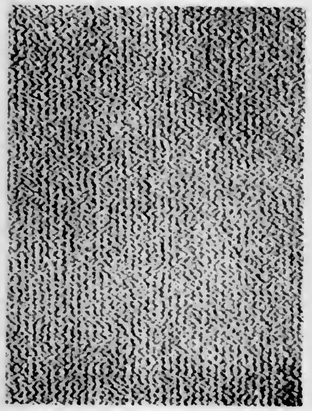
The ornamental design for a dress, substantially as shown.

115,991
DESIGN FOR A TEXTILE FABRIC
Curt Erwin Forstmann, Montclair, N. J.
Application November 9, 1937, Serial No. 72,730
Term of patent 3½ years



The ornamental design for a textile fabric as described and as shown.

115,992
DESIGN FOR A TEXTILE FABRIC
Curt E. Forstmann, Montclair, N. J.
Application January 21, 1938, Serial No. 74,465
Term of patent 3½ years



The ornamental design for a textile fabric as described and as shown.

115,993
DESIGN FOR A DRESS
Theresa M. Fritz, New York, N. Y.
Application June 29, 1939, Serial No. 85,746
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,994
DESIGN FOR A DRESS
Theresa M. Fritz, New York, N. Y.
Application June 29, 1939, Serial No. 85,747
Term of patent 3½ years



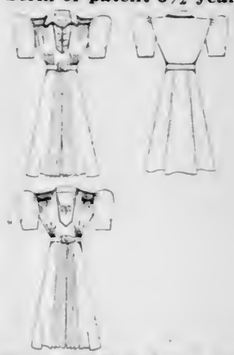
The ornamental design for a dress, substantially as shown.

115,995
DESIGN FOR A DRESS
Theresa M. Fritz, New York, N. Y.
Application June 29, 1939, Serial No. 85,748
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,996
DESIGN FOR A DRESS
Max Frumkin, New York, N. Y.
Application June 30, 1939, Serial No. 85,770
Term of patent 3½ years



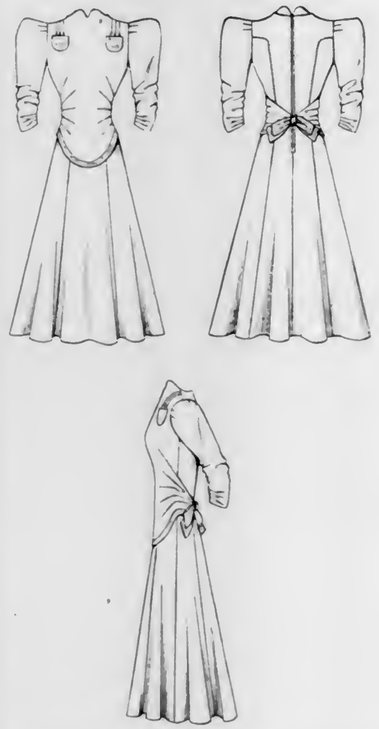
The ornamental design for a dress, substantially as shown.

115,997
DESIGN FOR A DRESS
Morris Galowitz, New York, N. Y.
Application July 1, 1939, Serial No. 85,796
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,998
DESIGN FOR A DRESS
Harry Goldman, New York, N. Y.
Application July 1, 1939, Serial No. 85,793
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

115,999
DESIGN FOR A DRESS
George J. Pollack, New York, N. Y.
Application June 20, 1939, Serial No. 85,582
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,000
DESIGN FOR A DRESS
Jane Rosener, New York, N. Y.
Application June 22, 1939, Serial No. 85,620
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,001
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application July 7, 1939, Serial No. 85,867
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,002
DESIGN FOR A DRESS
Mollie Stone, New York, N. Y.
Application June 22, 1939, Serial No. 85,618
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,003
DESIGN FOR A DRESS
Mollie Stone, New York, N. Y.
Application June 22, 1939, Serial No. 85,619
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

Patents Nos. 2,168,307 to 2,169,207

THE OFFICIAL GAZETTE
OF THE
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CONTENTS

	Page
ISSUE OF AUGUST 8, 1939	229
NOTICE OF CANCELLATION	229
ADJUDICATED PATENTS	229
ADVERSE DECISIONS IN INTERFERENCE	229
APPLICATIONS UNDER EXAMINATION	230
DECISIONS OF THE U. S. COURTS—	
Collins & Aikman Corporation v. Sanford Mills and L. C. Chase & Co. Inc	231
Reed v. Edwards	234
Langfield, doing business as The Solvite Co. v. Brady, doing business as The Solvoline Sales Co	236
In re Hanson	237
Gardner v. Ziliger	239
PATENT SUITS	241
TRADE-MARK REGISTRATIONS CANCELED	242
DISCLAIMERS	242
CHANGES IN CLASSIFICATION	243
TRADE-MARKS PUBLISHED (147 APPLICATIONS)	245
TRADE-MARK REGISTRATIONS GRANTED	263
TRADE-MARK REGISTRATIONS RENEWED	270
LABELS	271
PRINTS	272
REISSUES	273
PLANT PATENTS	274
PATENTS GRANTED	275
DESIGNS	482

August 8, 1939

Trade Marks	164—No.	369,858 to No.	370,021, inclusive
T. M. Renewals	43		
Labels	32—No.	53,340 to No.	53,371, inclusive.
Prints	6—No.	17,527 to No.	17,532, inclusive.
Reissues	4—No.	21,171 to No.	21,174, inclusive.
Patents	901—No.	2,168,307 to No.	2,169,207, inclusive.
Designs	126—No.	116,004 to No.	116,129, inclusive.
Plant Patents	2—No.	336 to No.	337, inclusive.
Total	1,278		

Adjudicated Patents

(C. C. A. Pa.) Power and Bradley patent, No. 1,927,185, for resistor unit and method of making the same, claims 4, 7, and 8 *Held* not infringed, and claims 9 and 10 *Held* invalid. *Allen-Bradley Co.* v. *Eric Resistor Corporation*, 104 F.(2d) 150.

(D. C. Mich.) Petersen design patent, No. 77,857, for design for a service-station booth, *Held* valid and infringed. *Pure Oil Co.* v. *Ruthsatz*, 27 F. Supp. 688.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,066,674, F. W. Dunmore and L. L. Hughes, Multistage ultra high radio frequency amplifier, decided July 15, 1939, claims 3, 5, and 9.

Pat. 2,068,040, G. S. Schaberle, Thermionic discharge relay system, decided May 29, 1939, claim 12.

Pat. 2,096,569, Axel Wasberg, Car door structure, decided May 26, 1939, claims 5 and 23.

Pat. 2,119,127, W. H. Carrier and J. H. Holton, Ventilating and conditioning system, decided July 21, 1939, claim 2.

Pat. 2,122,210, E. F. Miller, Cooling apparatus, decided July 19, 1939, claims 3, 5, and 12.

Pat. 2,132,208, F. W. Dunmore, Ultrahigh frequency radio amplifier, decided July 15, 1939, claims 6 and 7.

Notices of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., July 5, 1939.*

Lourania N. Smith, her assigns or legal representatives, take notice:

An application for cancellation having been filed in this Office by The Knox Company, 1651 North Argyle, Los Angeles, Calif., to effect the cancellation of trade-mark registration of Lourania N. Smith, Liberty, Mo., No. 197,483, dated April 21, 1925, and the notice of such proceeding sent by registered mail to the said Lourania N. Smith at the said address and reforwarded to her at Hotel Delmonte, 5630 Delmar Boulevard, St. Louis, Mo., having been returned by the post office undeliverable, notice is hereby given that unless said Lourania N. Smith, her assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in the case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, D. C., July 15, 1939.*

Hercules Petroleum Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Dryer, Clark & Dryer Oil Company, 701 West Noble Avenue, Oklahoma City, Okla., to effect the cancellation of trade-mark registration No. 154,969, issued May 16, 1922, to Hercules Petroleum Company, American Exchange National Bank Building, Dallas, Tex., and a notice of such proceeding sent by registered mail to said Hercules Petroleum Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Hercules Petroleum Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Condition of Applications Under Examination at Close of Business July 22, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 45,584; Trade-Mark Division, 1,517. Oldest new case, Dec. 23, 1938; oldest amended, Dec. 16, 1938.)
(The dates given are 1939 except where † indicates 1938)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application awaiting office action	Oldest amended application awaiting office action	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Feb. 24	Mar. 2	727
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Feb. 25	Feb. 25	709
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 22	May 22	423
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Apr. 17	Apr. 4	477
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	Apr. 22	Apr. 26	480
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Feb. 13	Feb. 24	985
5725	7. JARBOE, C. G., Optics; Photography	Apr. 1	Mar. 30	934
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Feb. 18	Jan. 16	1196
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 19	Mar. 21	750
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Apr. 4	Apr. 4	622
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Mar. 25	Apr. 5	479
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Jan. 16	Jan. 15	566
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Feb. 13	Feb. 8	751
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	May 13	May 10	442
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 3	Mar. 4	1213
5716	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 23	Feb. 24	838
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 21	Mar. 13	612
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Feb. 7	Feb. 15	556
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	Apr. 29	Apr. 11	416
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Apr. 5	Apr. 4	414
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 13	Apr. 14	515
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Feb. 14	Feb. 16	939
7624	23. BUTTNER, W. J., Registers (part)	Jan. 24	Jan. 5	307
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 6	Jan. 28	1219
5709	25. BLAKELY, C. F., Classifying Solids Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 24	Apr. 20	503
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Mar. 2	Mar. 4	618
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	†Dec. 23	†Dec. 27	1264
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Mar. 27	Mar. 21	453
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	†Dec. 31	Feb. 7	811
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Feb. 16	Feb. 21	850
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Apr. 17	Apr. 13	667
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Apr. 10	Apr. 26	390
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	May 3	Apr. 20	804
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Apr. 22	Apr. 22	360
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 21	Mar. 24	627
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Feb. 10	Feb. 25	618
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 12	Apr. 12	640
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	Jan. 7	Jan. 18	873
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 7	Apr. 4	622
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Feb. 15	Feb. 15	1607
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Feb. 14	Mar. 4	380
5882	42. CUTTING, H. O., Electric Signaling	Jan. 18	Jan. 17	621
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Mar. 11	Mar. 8	601
4087 B	44. HARVEY, L. P., Refrigeration	Feb. 27	Feb. 23	732
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Mar. 23	Mar. 18	639
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Feb. 24	Feb. 28	758
6082	47. LOWE, E. R., Clutches; Brakes	Mar. 24	Mar. 27	408
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 18	Apr. 19	503
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Jan. 27	Jan. 12	1100
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Jan. 26	Feb. 1	1336
5628	51. BACKUS, C. D., Radiant Energy (part)	Apr. 26	Apr. 26	722
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Mar. 10	Mar. 27	794
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Mar. 29	Mar. 24	517
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Mar. 30	Apr. 5	365
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Jan. 23	Jan. 25	655
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Feb. 22	Feb. 22	1172
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Mar. 17	Apr. 26	439
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Mar. 31	Mar. 20	426
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Mar. 30	Apr. 3	602
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Mar. 20	Mar. 20	421
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Feb. 21	Mar. 2	527
5621	62. PUGH, E. C., Games; Geometrical Instruments	May 5	Apr. 25	520
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Feb. 8	Feb. 2	817
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Mar. 31	Mar. 31	859
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Mar. 3	Mar. 2	614
2099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND {Trade-Marks	June 1	July 4	1443
	{Labels and Prints	July 18	July 21	74
2605	Designs: H. H. KALUPY	June 15	June 27	779

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

COLLINS & AIKMAN CORPORATION
v.
SANFORD MILLS AND L. C. CHASE & CO. INC.

No. 4,056. Decided February 6, 1939

[101 F.(2d) 531]

1. TRADE-MARKS — OPPOSITION PROCEEDING — EX PARTE QUESTIONS MAY BE CONSIDERED.

"It has been frequently held by this court and elsewhere that the Patent Office tribunals are not limited in an opposition proceeding to the consideration of the precise questions presented in the notice of opposition; that on the contrary in such proceedings they may dispose of any question relating to the proposed registration that might be considered in an ex parte case."

2. SAME—REGISTRABILITY UNDER ACT OF 1905—SECONDARY MEANING.

"Secondary meaning does not supply a valid ground for the registration of a mark not otherwise registrable, under the trade-mark registration act" of 1905.

3. SAME — SAME — OPPOSITION — DESCRIPTIVENESS OF MARK.

The notation "Breathing Back" used on pile fabrics *Held* properly refused registration on the ground of descriptiveness.

APPEAL from Patent Office. Affirmed.

Mr. Paul J. Schmitz for Collins & Aikman Corporation.

Mr. Nathan Heard (*Mr. C. Yardley Chittick* of counsel) for Sanford Mills and L. C. Chase & Co. Inc.

BLAND, *J.*:

The principal issue involved in this appeal from the decision of the Commissioner of Patents is whether or not appellant's alleged trade-mark "Breathing Back" which it seeks to register for use for pile fabrics in the piece consists—

"merely in words or devices which are descriptive of the goods with which they are used, or of the character or quality of such goods,"

within the meaning of the Trade-Mark Act of February 20, 1905, as amended. [Italics ours.]

The application of the Collins & Aikman Corporation, appellant (hereinafter styled applicant), filed October 18, 1935, discloses the mark which it seeks to register as consisting of the said term printed in plain, uniform-sized, black capital letters. It alleges a use of said term since September 26, 1935.

Specimens showing the trade-mark as actually used by the applicant upon the goods consist of string tags which are intended to be tied to bolts of the pile fabric, which tags contain, in five different parallel lines, the following notations: "Quality," "Pattern," "Color," "Piece," and "Yards," after which are blank spaces for the insertion of data. Following the term "Quality," apparently in typewritten caps, is the term "Breathing Back". No data appears opposite to the other notations. At the bottom of the tag displayed in large letters is applicant's registered trade-mark "Cavel."

Appellees, Sanford Mills and L. C. Chase & Company, Inc., hereinafter styled opposers, on December 31, 1935, filed notice of opposition to the registration of said term by the applicant, alleging, among other things, that Sanford Mills, and L. C. Chase & Company, Inc., are corporations of the State of Maine, doing business in various places throughout the United States and that Chase & Company, Inc., is a wholly owned subsidiary of Sanford Mills; that they believed they would be damaged by registration of the alleged trade-mark on account of the fact that—

"Sanford Mills manufactured, and L. C. Chase & Company, Inc. sold to customers in the United States, pile fabrics in the piece having on the back thereof a coating of adhesive material pervious to gases and air and substantially impervious to water and thus having the characteristic of a 'breathing back' and that this term 'Breathing Back' was prior to and since said date [September 26, 1935] employed by opposers, by purchasers, by prospective purchasers, by other manufacturers and by the public in the United States as indicative of and properly descriptive of the quality or characteristic of the said goods";

that the term "Breathing Back" did not indicate origin but was properly descriptive of the quality or characteristics of opposer's and applicant's goods and its use of the term was to describe such goods; that the term is not registrable by any one by reason of the prohibitory provision of section 5 of said trade-mark act; that applicant's specimens filed with the application show that the term "Breathing Back" was used by applicant to indicate quality and was not used as a trade-mark, and that the registration and use of the term by applicant as a trade-mark would be misleading to purchasers and to the public and would be an illegal invasion of the rights of opposers.

Applicant in its answer to the notice of opposition raises the question of misjoinder of parties in the notice of opposition, denies that opposers would be damaged by the registration of the mark, alleges that opposers did not show any use of the mark on any goods, stated that the term "Breathing Back" is not descriptive of the quality or any characteristic of the goods; and denies that applicant's specimens show the use of "Breathing Back" as indicating quality of the goods.

Considerable testimony was offered by both parties and numerous exhibits bearing on different phases of the issue presented by the pleadings were also introduced.

The Examiner of Interferences after considering the evidence, the exhibits and other matters relating to the use and the meaning of the term "Breathing Back" held the same to be descriptive within the prohibitive clause of said section 5, supra. He pointed out that L. C. Chase & Company, Inc., was the selling agent of Sanford Mills; that the latter owned the stock of the former, and that L. C. Chase & Company, Inc., by reason of this relationship, had sufficient interest to enable it to join with Sanford Mills in the opposition. He fur-

ther held that mere oral use of the term "Breathing Back" in trade is sufficient to enable the user to qualify as an opposer where the opposition is based upon descriptiveness of the alleged trade-mark. He accordingly sustained the notice of opposition.

The First Assistant Commissioner, acting for the Commissioner of Patents, affirmed the decision of the Examiner of Interferences in sustaining the opposition on the ground that the alleged mark was a descriptive term and fell under said section 5, supra. He furthermore stated that if he were not convinced that the mark was descriptive, he was satisfied that the applicant had not shown a trade-mark use of the same.

In view of our conclusion that the term "Breathing Back" is descriptive of the goods upon which applicant alleges use of the said term, and since the concurring holdings of the Examiner of Interferences and the Commissioner are to the effect that the mark may not be registered for the reason that it is descriptive, it will not be necessary for us to consider any other issue than that relating to the question of whether or not the term "Breathing Back" consists merely in words or devices descriptive of the goods upon which applicant alleges its said use.

[1] It has been frequently held by this court and elsewhere that the Patent Office tribunals are not limited in an opposition proceeding to the consideration of the precise questions presented in the notice of opposition; that on the contrary in such proceedings they may dispose of any question relating to the proposed registration that might be considered in an ex parte case. *Rose Nerenstone Bookman* [*etc.*] v. *The Oakland Chemical Co.*, 17 C. C. P. A. (Patents) 1213, 40 F.(2d) 1006, 399 O. G. 628; *California Cyanide Co.* v. *American Cyanamid Co.*, 17 C. C. P. A. (Patents) 1198, 40 F.(2d) 1013, 399 O. G. 212. In other words, the Patent Office tribunals having refused registration of the legend by reason of its descriptive character, as they had the right to do regardless of the grounds of opposition, it is not material, under the particular facts of this case, whether any of the contentions of the applicant, other than that relating to descriptiveness, are sound or otherwise.

It follows from the foregoing, that a conclusion here that the term sought to be registered is descriptive of the goods upon which the applicant alleges a trade-mark use, within the meaning of section 5, supra, requires that the decision of the Commissioner which is here appealed from must be affirmed. The record is replete with testimony and exhibits which have a direct bearing upon this question. It will not be necessary here to state in detail all the facts shown by the record. Prior to any alleged use by appellant, the term "Breathe" had a definite meaning when applied to leather and certain fabrics including pile fabrics. It had reference to a porous quality of the material which permitted the free passage therethrough of air or gases. It had long been said of leather that it had a breathing quality and when artificial leather was made the makers attempted to give it and did give it such a porous characteristic as to cause it to have the breathing quality similar to that of leather.

Many years prior to applicant's use of the disputed term, pile fabrics were used for upholstery generally and also for upholstering the cushions and seats of automobiles. Shortly before applicant's alleged use of the term, when automobile manufacturers were considering the merits of different kinds of pile fabrics for upholstery work in automobiles, it was realized that if the back was completely covered so that there was no porosity or air-permeability through the same, it would not have a breathing quality. Long before applicant's alleged use of the term those interested in the manufacture and use of artificial leather, coated fabrics, etc., recognized the advisability of retaining the good results of having a coated back to the article and at the same time have it so made that by reason of the porous character of the back the article would breathe like leather and would thus permit the passage of air and gases. The record discloses that just prior to the alleged use of the term by the applicant, the question of making and using a pile fabric with a coated back which would be sufficiently porous to permit breathing was one of considerable importance to the automobile industry and that the terms "Breathing" and "Breathing Back" were very frequently applied in referring to the characteristics of the material to be used. In other words, the automobile industry, as well as the pile fabric manufacturers, during a considerable period of time immediately prior to the date when applicant first used its term as alleged, described pile fabrics with a porous back by employing the terms "Breathe" and "Breathing" with the same meaning as the terms had when applied to leather and other articles.

Not only does the testimony of record show most of the facts heretofore stated, but the exhibits in the record we think conclusively support opposer's contentions and the findings of the tribunals below in this particular. Applicant's witness Chamberlain concedes that the term "Back" as applied to a pile fabric "would be that part of the material that the pile is fastened into." He stated: "I would say the back of the upholstery is the reverse side of the face of it, or the side the pile projects from." The testimony of other witnesses of the applicant and of opposers was to the same effect. The record conclusively shows that applicant's pile fabric upon which the mark is alleged to have been used has a thin coating of a rubber-like compound which acts to hold the pile firmly in the back; that it is so arranged that the fabric and the back thereof has sufficient porosity as to permit the passage of air and gases, and that the term "Breathing Back" fitly and aptly describes a characteristic or quality of applicant's goods.

As before stated, the terms "Breathe" and "Breathing" have since a very early date been used to describe the porous character of leather and for many years prior to applicant's alleged use of the

term they had been frequently applied in describing the character of certain coated textile articles. In the patent of record to Gibbons et al., No. 1,427,754, of August 29, 1922, which related to a rubber-compound or pyroxylin-compound coated fabric, it was stated:

> • • • But the rubber composition as well as the other types mentioned have all been unsuitable for wearing apparel, upholstery and like uses on account of their inability to "breathe" after the fashion of leather. • • •
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> • • •

alleged mark had been put by the applicant. Secondary meaning does not supply a valid ground for the registration of a mark not otherwise registrable, under the trade-mark registration act at bar. *Barber-Colman Co.* v. *Overhead Door Corporation*, 20 C. C. P. A. (Patents) 1118, 65 F.(2d) 147, 436 O. G. 305. It would be a queer anomaly if appellant could adopt the use of a descriptive term when others were rightfully using it or when they had the right to use it in connection with their business transactions, and by less than a month's use acquire the exclusive right to its use.

[3] We conclude, therefore, that the term falls squarely within the prohibition of the registration statute and that the Patent Office tribunals properly denied registration thereof, and the decision appealed from, which in effect denies registration, is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

REED *v.* EDWARDS

No. 4,081. Decided February 6, 1939

[101 F.(2d) 550]

INTERFERENCE—PRIORITY.

In an interference involving a patent to R and an application of E which was a division of an application the filing date of which antedated the filing date of R's application, and in which interference no testimony was taken by either party, record reviewed and *Held* that the disclosure of the earlier application of the senior party E supports the counts and is operative and that priority was properly awarded to him.

APPEAL from Patent Office. Affirmed.

Mr. E. L. Sheehan, Mr. Jesse R. Stone and *Mr. Lester B. Clark* for Reed.

Messrs. Oberlin, Limbach and *Day* (*Mr. Almon S. Nelson* of counsel) for Edwards.

LENROOT, *J.*:

This is an appeal in an interference proceeding wherein the Board of Appeals of the United States Patent Office affirmed a decision of the Examiner of Interferences awarding priority of invention to appellee with respect to the two counts in issue.

The interference is between a patent, No. 1,936,643, issued to appellant on November 28, 1933, upon an application filed December 10, 1929, and an application filed by appellee on September 16, 1933, the same being a division of an application filed by him on November 16, 1926, upon which a patent, No. 1,927,310, was issued September 19, 1933.

The involved counts read as follows:

1. A device of the character described including a slotted hollow circular mandrel, cutting members disposed in said slots, co-operating faces on the edges of the slotted portions of said mandrel and said members whereby said members are advanced toward the hollow portion of said mandrel, and a tongue and groove construction between the edges of the slots in said mandrel and said members to limit the rate of travel thereof to a direct proportion of the movement of said mandrel.

2. An outside pipe cutter including in combination cutters to engage the pipe, a vertically movable mandrel to actuate said cutters, and means on said mandrel to lock said cutters in retracted position when said mandrel is retracted, said means including co-operating beveled faces on said cutters and said mandrel adapted for separation upon operation of the cutter.

The subject matter of the invention is a device adapted for use in cutting and removing pipe lodged in deep oil wells. The device is designed to telescope over the outside of the pipe to be cut; cutters are provided which, when released for engagement with the pipe, sever the same upon rotation of the device. The details of the device are sufficiently described in the counts.

Both of the counts were copied by appellee from appellant's patent for purposes of interference.

Originally only count 1 was involved in the interference.

Both parties filed preliminary statements. Appellant alleged conception of the invention and disclosure to others in April, 1923, and reduction to practice in July, 1929. Appellee alleged conception of the invention in June, 1921, disclosure to others in March, 1923, and diligence in perfecting it until November 16, 1926, when he constructively reduced it to practice by filing his said parent application.

Thereafter appellant moved to dissolve the interference upon two grounds: 1, that appellee had no right to make the count of the interference, and 2, that the device disclosed in the application of appellee is inoperative.

Appellee opposed said motion to dissolve, and at the same time proposed to add new counts, being claims copied from appellant's patent. It also appears from the decision of the Primary Examiner upon said motion that appellee also moved to shift the burden of proof to appellant, basing his motion upon the disclosure of the involved invention in his parent application, the filing date of which antedated the filing date of appellant's application. While this motion does not appear in the record, it does appear that the Primary Examiner granted the same, and no claim is made that such decision was erroneous. By virtue of such decision appellant became the junior party.

In said decision of the Primary Examiner upon said motions, appellant's motion to dissolve was denied, and appellee's motion to add counts to the interference was also denied. Appellee appealed from the denial of the motion to add counts to the interference. The Board of Appeals affirmed the decision of the Primary Examiner as to three counts, but reversed him upon one count, which is count 2 before us.

A preliminary statement was filed by appellant with respect to count 2 wherein he alleged conception of the invention set forth in said count, and disclosure to others, in April, 1923, and reduction to practice in July, 1929. The record does not show that any preliminary statement was filed by appellee with respect to count 2.

No testimony was taken by either party, and on July 31, 1936, the Examiner of Interferences issued an order to show cause why judgment upon the record should not be entered against appellant. Thereafter appellant moved for leave to take testimony to show the inoperativeness of appellee's device and that said device will not support the counts of the interference; attached to said motion were several affidavits in support thereof. Appellee opposed this motion and he also filed several affidavits. The Examiner of Interferences denied this motion upon the ground that the showing in support of the motion was insufficient to justify the granting thereof, and upon appeal to the Commissioner this decision was affirmed.

Appellee also filed certain other motions, which were denied; in view of the conclusion which we have reached it is unnecessary to make further reference to them.

On February 6, 1937, the Examiner of Interferences entered judgment on the record awarding priority of invention to appellee with respect to both counts. Upon appeal the Board of Appeals affirmed the decision of the Examiner of Interferences, and appellant has appealed to this court.

Before us there are but two questions to be considered: 1, whether appellee's disclosure supports the involved counts, and, 2, whether the device disclosed in appellee's application is inoperative.

The brief for appellant also contends that he should have been permitted to take testimony relative to the inoperativeness of appellee's structure. As hereinbefore stated, a motion for that purpose was made by appellant and was denied, but such denial is not included in the reasons for appeal filed by appellant, and that question will not be considered by us.

There have been three decisions of the Patent Office tribunals sustaining appellee's right to make the claims corresponding to the counts, two by the Primary Examiner (the second being in response to a motion by appellant for reconsideration of the first decision on appellant's motion to dissolve) and one by the Board of Appeals. The question involved is technical and before we would be justified in reversing the Board upon this ground it should clearly appear that its decision was erroneous.

It is elementary that the counts of an interference must be interpreted as broadly as their terms will reasonably permit, and that, in case of ambiguity in the counts, resort should be had to the patent or application where the counts originated.

It is appellant's principal contention that appellee's specification discloses only one of the following elements of count 1, viz., "co-operating faces on the edges of the slotted portions of said mandrel and said members," etc., and "a tongue and groove construction between the edges of the slots in said mandrel and said members." Appellant admits that appellee does disclose a tongue and groove construction, but insists that the same element must be relied upon for the cooperating faces on the edges of the slotted portions of the mandrel and the cutting members. As we understand appellant's contention, it is that, even if the tongue and groove construction performs, as one of its functions, the function performed by the cooperating faces above described, nevertheless, inasmuch as the count calls for separate elements in structure, appellee does not disclose such separate elements.

However, both of the Patent Office tribunals have held that appellee discloses both of said elements.

It will be observed from count 1 that there are only two main elements of structure involved, a hollow mandrel and cutting members disposed therein. All of the elements of the count relate to the form and structure of the mandrel and the form and structure of the cutting members, and their method of engagement with each other.

The Primary Examiner in his first decision upon the motion to dissolve stated as follows:

> This last portion of the claim may also be read on the Edwards structure and without resorting to double reading of elements as argued by the party Reed. In the Edwards application the legs 67 have on their edge portions a series of inclined overlapping ribs or teeth 68 defining slots which mesh with inclined teeth 72 on the cutter 70 and this construction obviously limits travel of the cutters as stated in the count. This engagement between the teeth 68 and 72 fully meets the structure set out in the last portion of the count as follows:
>
> It is to be noted that because the inclined teeth 68 overlap, a pair of these inclined teeth on each leg portion is always in mesh with the grooves formed by teeth 72 on a corresponding cutter and the engagement of one inclined tooth 68 in one of the grooves formed between the teeth 72 constitutes "co-operating faces on the edges of the slotted portions of said mandrel and said members whereby said members are advanced toward the hollow portion of the mandrel" while the engagement of the other of said pair of ribs on each leg with another of the slots formed by the series of teeth 72 on each corresponding cutter 70 is "a tongue and groove construction" as defined by the last portion of the claim.

The Board of Appeals in its decision stated:

> It has long been recognized that one element of a claim may be relied upon for performing different functions. We believe, therefore, that even if it were necessary to construe this count in this manner, it would still read upon the Edwards disclosure. However, we can see no reason why one side of a tongue or a groove in the Edwards device may not be regarded as the means for advancing the cutter, and why the other side may not be regarded as the means for limiting the rate of travel.
>
> It is true that there is no particular reason why the rate of travel should be controlled in the Edwards tool as cutting does not occur at the time the advance is taking place but, if the count is satisfied by the Edwards device, this fact is immaterial. It is our opinion that this count reads without any forced construction upon the disclosure of the party Edwards.

We are not convinced that the Patent Office tribunals were wrong in their holdings above stated.

It is appellee's contention that the disclosure of appellant's patent is the exact equivalent of the disclosure in appellee's application, and that if appellee does not disclose these separate elements, then neither does appellant. While there is much force in this contention, we do not feel it necessary to pass upon the same.

With respect to count 2 the Board stated:

> Count 2 clearly reads upon the Edwards disclosure, except as to the introductory and last clauses. The party Reed contends that a cutter for cutting away a coupling is not an outside pipe cutter. We cannot, however, agree with this limited interpretation.
>
> Again it is the party Reed's contention that it is necessary to employ the same element for performing two functions, and once again we may call attention to the fact that this is not a sufficient reason for holding that the claim does not read upon the Edwards disclosure. We also believe, inasmuch as the particular portions of the cooperating beveled faces which lock the cutters in retracted position are separated as the cutters are advanced, that it is unnecessary to rely upon the same element for performing dual functions.

With the latter portion of the above statement we are in accord, and with reference to the statement that the same element may be relied upon for performing two functions, we express no opinion thereon with respect to the application of that rule as applied to the counts before us. We are of the opinion, however, that while a given structure may in one sense be considered a single element, in another sense it may be so formed as to consist of sev-

eral elements, depending upon the functions to be performed by such elements.

With relation to count 2 the Board further stated:

The party Reed also contends that the separation does not occur upon operation of the cutter. It is true that in the Edwards device the advance does not take place during the cutting operation but the count does not specify that it does and we consider that any movement of the cutter is an operation of it. We are still of the opinion that this count clearly reads in terms upon the disclosure of the party Edwards.

We are in accord with the foregoing. We think the word "operation" used in the last portion of the count has the same meaning as the word "actuate" in the first portion, and that any movement of the cutter is an operation of it.

We would observe that in neither of the counts is there anything stated with respect to the actual cutting of the pipe.

Further, appellant contends that the cutters of appellee are not actuated by the vertical movement of the mandrel. His position is that the term "actuate" should be construed as meaning the operation of cutting the pipe, and that appellee's mandrel merely moves his cutters into engagement with the pipe. It is true that appellee's mandrel operates in this manner, but the same is true of appellant's device. The vertical movement of appellant's mandrel does not cause the pipe to be cut, but only places the cutters in position for cutting. For any cutting operation the cutters must be rotated and this is not caused by any vertical movement of the mandrel. So appellant clearly has used the word "actuate" to mean to move the cutters into position for cutting, and this appellee also does.

We are not convinced that the Board of Appeals erred in holding that the involved counts are supported by appellee's disclosure.

Upon the question of the inoperativeness of appellee's device we have more difficulty. The Board indicated that if appellant had presented proper affidavits in support of his motion to take testimony, such testimony might have developed the inoperativeness of appellee's device, but that in the absence of such testimony the Board did not feel justified in holding that appellee's device was inoperative. The Board also expressly held that in certain respects appellee's device, as disclosed in his application, was inoperative, but that it required only changes obvious to one skilled in the art to make it operative.

The Board then discussed in detail various contentions of appellant as to inoperativeness of appellee's device, which require no extended discussion as we think the Board was clearly right as to such contentions.

The last contention of appellant as to inoperativeness of appellee's device is discussed by the Board as follows:

The only question remaining is the provision for slight rotary movement between the parts 61 and 62. Clearly, the screw-threaded connection will permit such movement if it is not tightened up. It is our opinion that it would be obvious to leave this connection loose. While the counts do not require that it must be loose after cutting has been attempted, in order to permit the removal of the tool when the cutting has not been completed, we consider that it would be a simple and obvious matter to provide some arrangement so that stoppage of relative rotation would occur before the threads are unduly tightened.

The last quoted statement is sharply challenged by appellant. He contends that no driller would for a moment consider using a loosely threaded connection in a deep oil well. However, it will be observed that the Board held that it would be a simple and obvious matter to make provision against relative rotation before the threads were unduly tightened. While we are frank to say that how this could be done is not obvious to us, we are not skilled in the art, nor do we have the technical information relating thereto possessed by the Patent Office tribunals. Therefore, while we are not clear that appellee's device is operative, we cannot say that the Patent Office tribunals in their concurring decisions are manifestly wrong in holding that, upon the record made, appellee's device should be held to be operative.

After the original transcript of record had been certified from the Patent Office, appellee suggested a diminution thereof, and this court issued a writ of certiorari requiring that certain additions to the record be certified by the Commissioner of Patents and that the same be printed. Pursuant to said writ, said additions were made to the record. It is our view that the additional record so certified and printed was unnecessary to a proper determination of the issues in this case, and that the cost of printing the same should be taxed against the appellee, and it is so ordered.

The decision of the Board of Appeals is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

LANGFIELD, DOING BUSINESS AS THE SOLVITE CO.

v.

BRADY, DOING BUSINESS AS THE SOLVOLINE SALES CO.

No. 4,089. Decided February 6, 1939

[101 F.(2d) 530]

TRADE-MARKS — OPPOSITION — CONFUSING SIMILARITY— "SOLVITE" AND "SOLVOLINE".

Concurrent use of the applicant's trade-mark "Solvoline" for a non-explosive dry cleaning fluid *Held* likely to cause confusion with opposer's registered mark "Solvite" used upon a dry-cleaning soap.

APPEAL from Patent Office. Reversed.

Mr. Edward S. Rogers, Mr. William T. Woodson, Mr. James H. Rogers, Mr. Francis L. Browne, Mr. Dudley Browne, and *Mr. Thomas L. Mead, Jr.* for Langfield.

No appearance for Brady.

LENROOT, *J.:*

On January 29, 1936, appellee filed in the United States Patent Office an application for the registration, under the Trade-Mark Act of February 20, 1905, of the notation "Solvoline" as a trade-mark for a "Non-Explosive Dry Cleaning Fluid." The petition stated that said mark had been continuously used and applied to said goods in appellee's business since about June 1, 1932.

Appellant filed notice of opposition to said application, alleging that since long prior to June 1, 1932, he had manufactured and sold a dry-cleaning soap, and had continuously applied thereto and used thereon in sales throughout the United States the trade-mark "Solvite." He alleged registration of his said mark on June 12, 1928, registration No. 243,223, and attached a certified copy thereof to said notice. He further alleged that the goods upon which appellee applies his mark are identical with the goods of appellant, that said marks are confusingly similar, and that appellant would be damaged by the registration of appellee's mark.

Both parties took testimony. It is established that appellant used his trade-mark long prior to any use by appellee of his mark.

Only two questions are involved, viz., whether a dry-cleaning soap and a dry-cleaning fluid are goods of the same descriptive properties, and whether the marks of the parties are confusingly similar.

The testimony shows that appellee's goods are prepared ready for use by the purchasers, while appellant's goods are intended to be diluted with gasoline or naphtha, the resulting product being then used in a fluid state.

The Examiner of Trade-Mark Interferences sustained the notice of opposition, holding that the goods of the parties to which the marks are applied are of the same descriptive properties, and that the marks are so similar that their concurrent use is likely to cause confusion and mistake in the minds of purchasers.

Upon appeal the Commissioner, through his assistant, reversed the decision of the Examiner and dismissed the opposition, holding that, while the goods of the parties are of the same descriptive properties, they are widely different in many of their essential characteristics and that, considering the difference in the marks and the difference in the goods, there is no reasonable likelihood of confusion in the concurrent use of the two marks. The Assistant Commissioner, in coming to this conclusion, relied largely upon our decision in *Vick Chemical Co.* v. *Thomas Kerfoot & Co., Ltd.*, 23 C. C. P. A. (Patents) 752, 80 F.(2d) 73, 463 O. G. 693, wherein we held that the mark "Vapex," applied to an inhalant used in the treatment of colds, and the mark "Vaporub," applied to a salve for the relief of colds, were not confusingly similar.

Decisions of this and other courts upon the question of confusing similarity of other marks not here involved can not of course be controlling here, and are merely persuasive, for each case must be decided upon its own facts. However, the case of *Langfield, etc.* v. *Solvit-All Corporation*, 18 C. C. P. A. (Patents) 1313, 49 F.(2d) 480, 411 O. G. 819, in our opinion, has a closer application to the case at bar than the case relied upon by the Assistant Commissioner. The appellant in that case was the appellant here; in that case he opposed the application for registration of the mark "Solvit-All," used on sanitary solvents for cleaning, disinfecting, and deodorizing toilet bowls and similar articles. We there held that the goods of the parties were of the same descriptive properties, and with respect to the confusing similarity of the marks there involved we said:

That the marks are confusingly similar is evident and requires no discussion.

In the case at bar the goods to which the marks are applied, while not identical, are very closely related, and, when concurrently used upon such goods, the marks "Solvite" and "Solvoline" are, in our opinion, likely to cause confusion in the minds of purchasers.

We are in accord with the decision of the Examiner of Trade-Mark Interferences, and the decision of the Commissioner is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE HANSON

No. 4,113. Decided February 6, 1939

[101 F.(2d) 555]

PATENTABILITY—VULCANIZING APPARATUS.

Certain claims for apparatus to be used in vulcanizing rubber valve stems to the inner tubes of automobile tires *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Messrs. Wheeler, Wheeler and Wheeler (*Mr. S. L. Wheeler* and *Mr. John J. Darby* of counsel) for Hanson.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

LENROOT, *J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office rejecting, as unpatentable over the cited prior art, claims 1, 2, 17, and 18 of appellant's application for patent. Claims 17 and 18 were submitted to the Board with a petition for reconsideration of the Board's first decision, with the request that, if not found allowable, they be entered by the Board for purposes of appeal. This was done. Certain claims have been allowed. Claims 1 and 18 are illustrative of the claims on appeal and read as follows:

1. As a new article of manufacture, an annular pan-shaped platen for use in vulcanization, said platen comprising an annular heat delivering pressure applying lower wall of sheet metal having integral upstanding flanges on its inner and outer peripheries.

18. As a new article of manufacture, a platen and heat unit for use in vulcanization comprising a shallow pan having a bottom constituting a heat-delivering, pressure-applying surface with a central aperture, and a fuel sheet positioned upon and substantially coextensive with said pan bottom and provided with a registering aperture, said pan including flange means extending about the perimeter of said pan and upstanding to confine said sheet thereon, and a second flange means upstanding from said bottom about the aperture therein and projecting through the registering aperture of the fuel sheet, whereby the fuel sheet is held against lateral displacement with regard to said pan bottom and the second flange means serves to protect from the direct heat of the burning fuel sheet a valve stem projecting through said registering apertures in the pan and sheet, a work supporting platen and means marginally engageable with portions of said flange means for pressing the shallow pan toward the work supporting platen.

The references cited are: Fontana, 1,620,597, March 8, 1927; Oppenheimer, 1,323,544, December 2, 1919; Gwynn, 2,009,549, July 30, 1935.

The invention involved relates to apparatus to be used in vulcanizing rubber valve stems to the inner tubes of automobile tires, and is well described by the Examiner as follows:

> The claims are directed to a device for vulcanizing a valve stem to an inner tube. This device consists of two parts, one (illustrated by Fig. 4) being an annular metallic platen, with upstanding inner and outer walls, for containing the solid fuel, for generating the heat necessary for vulcanization. The central opening accommodates the valve stem. The other part consists of a device for clamping the platen to the work during vulcanization (Fig. 1). It is made, essentially, of a base (5) with a resilient cushion (8) to support the work, a lever (11—12) pivoted to the base, and provided with an adjustable latch (14). A hollow screw (20) is threaded to this lever, and a spider (27) is swiveled to the lower end of the screw, the spider serving to engage the outer periphery of the aforementioned platen, when in operating position.

Only the first part of the device described by the Examiner, viz., the annular platen, is involved in this appeal, claims having been allowed for the other part described by the Examiner.

The patent to Fontana is for apparatus for use in vulcanizing inner tubes of pneumatic tires, and is directed particularly to the application of repair patches to punctures in such tubes. The apparatus consists of a clamping device, the details of which it is unnecessary to describe. In connection with this apparatus there is disclosed a platen or patch-unit. This consists of a metal cup having a peripheral wall. Within this cup there is positioned a disk of straw-board or other material impregnated with a composition which renders it capable of burning during the necessary period to effect vulcanization. To the underside of this metal cup is glued the rubber patch which is to be vulcanized to the tire. In use the tube is placed upon the work table of the clamping device, the platen unit is placed in registry over the puncture to be repaired, pressure is exerted upon the platen by means of the clamping device, and the fuel within the cup is ignited, causing the patch to be vulcanized to the tube.

The patent to Oppenheimer relates to apparatus for vulcanizing valve stems to inner tubes and shows a clamping device for securing the valve stem base and the inner tube in contact under pressure. In this patent, however, no platen is used, the vulcanizing being effected through the heat of steam introduced into the body or lower portion of the clamping device, said heat being conducted through the supporting table to the work being operated upon. In this patent the valve stem itself projects downwardly through a hole in the lower portion of the clamping device.

The patent to Gwynn also relates to apparatus for vulcanizing valve stems to inner tubes. In this device, as in Oppenheimer, the valve stem projects downward through a central hole in what is referred to as the vulcanizing block. This vulcanizing block forms the lower of the pressure members between which the inner tube and valve stem are secured prior to the vulcanizing operation. Gwynn does not utilize platens as his source of heat, but secures his vulcanizing temperature by means of an electrical heating coil positioned within the vulcanizing block itself.

The last two references referred to are important here only to the extent that they show that it is old to secure rubber valve stems to inner tubes by means of vulcanizing the parts together.

The position of the Examiner with respect to claims 1 and 2 was that they were not patentable over Fontana, he holding that it would involve only design for Fontana to provide his platen with a flanged hole so it could be used to vulcanize valve stems. This view was concurred in by the Board of Appeals, the Board in its decision stating that—

> "It is not seen that these claims define anything patentable over the disk-like unit disclosed in the patent to Fontana."

As hereinbefore observed, claims 17 and 18 were entered by the Board for purposes of appeal. In dealing with these claims in denying appellant's petition for rehearing, the Board stated:

> In addition, we are asked to consider two new claims numbered 17 and 18, and if they cannot be allowed, it is requested that they be entered for appeal. Claim 17 is directed to an annular shaped heating element and while this claim is more specific than claims 1 and 2 which stand rejected on the patent to Fontana, still it covers practically the same subject matter as set forth in said prior claims. We are of the opinion that this claim also is substantially met by the disclosure in the patent to Fontana.
>
> Claim 18 is directed to a combination of a clamp and the annular shaped heating element. This claim also is deemed to be substantially met by the disclosure in the Fontana patent.

As hereinbefore stated, only the annular platen and heat unit are involved in the claims before us, although claim 18 also provides for means for pressing the platen and work together. However, it is clear to us that this last-named element does not lend patentability to the claims.

The only question before us is whether the platen here involved represents a patentable modification of the platen disclosed by Fontana. The vulcanizing of valve stems to inner tubes was old, as shown by the references Oppenheimer and Gwynn. A platen consisting of a metal cup having a peripheral wall and a heating unit placed therein in the form of a disk was old, as disclosed by Fontana. Of course, such a platen and disk could not be used for vulcanizing valve stems to inner tubes, but it seems to us that it would readily occur to one skilled in the art that it could be so utilized if a hole was placed in the center thereof for the reception of the valve stem, and that an inner flange around this hole would be necessary to protect the valve stem from the heating material while the latter is burning.

It seems to us that the only question is whether the conception that the platen of Fontana might be modified for the purpose of vulcanizing valve stems involved invention, since the necessary modification itself was simple. In view of the state of the art, as disclosed by the references, we are of the opinion that such conception did not involve invention.

For the reasons stated, the decision of the Board of Appeals is affirmed.

Affirmed.

GARRETT, *P. J.*, and HATFIELD, *J.*, dissent.

U. S. Court of Customs and Patent Appeals

GARDNER *v.* ZILLGER

No. 4009. Decided February 27, 1939

[102 F.(2d) 203]

INTERFERENCE—PRIORITY.

Evidence reviewed and *Held* that priority was properly awarded the junior party Z who proved reduction to practice prior to the filing date of the senior party G who took no testimony.

APPEAL from Patent Office. Affirmed.

Mr. Elmer Stewart for Gardner.

Mr. Chester H. Braselton (*Mr. William Bohleber* of counsel) for Zillger.

JACKSON, *J.*:

This is an appeal in an interference proceeding by the senior party, D. B. Gardner, from a decision of the Board of Appeals of the United States Patent Office which reversed a decision of the Examiner of Interferences and awarded priority to the junior party, Arno Zillger.

Involved in the interference are the application of appellant Gardner, Serial No. 709,321, filed January 30, 1934, for reissue of Patent No. 1,892,142, which was granted on application Serial No. 461,406, filed June 16, 1930, and the application of appellee, Zillger, Serial No. 626,579, filed July 30, 1932.

The single count in issue was taken by both parties from Patent No. 1,887,472, of F. von Okolicsanyi and Wikkenhauser, which issued November 8, 1932, on an application filed September 17, 1930. As far as this appeal is concerned, the issue is between the parties Gardner and Zillger. Zillger, being the junior party, has the burden of proving his case by a preponderance of the evidence.

The single count is as follows:

> An apparatus for television reception and reception of electrically transmitted pictures comprising in combination a linear source of light intended to be controlled by the received currents and a rotary system of mirrors, the number of which corresponds to the number of the picture lines, the said mirrors being arranged next to one another along an axis of rotation and distributed at equal angular distances from one another over the range of rotation, the linear source of light being arranged to lie parallel to the said axis of rotation and to produce its image in the system of mirrors direct without the interposition of any optical system, and the minimum length of the individual mirrors being equal to the length of the picture lines.

The preliminary statement of Zillger alleges that he conceived the invention on or about December 5, 1922, disclosed it to others, and reduced it to practice on or about December 8, 1922 and that the first written description of the invention was made on or about May 15, 1932.

Zillger took testimony. Gardner, having taken no testimony, is confined to his filing date of June 16, 1930.

The Examiner of Interferences set out the subject matter of the invention as follows:

> The subject matter in issue relates to a scanning apparatus for television reception. The apparatus consists of a linear source of light controlled by the received currents and a rotary system of mirrors. The number of mirrors is equal to the number of picture lines and the mirrors are arranged adjacent to one another at equal angular distances along an axis of rotation. The linear source of light lies parallel to the axis of rotation and no optical system is interposed. The minimum length of the mirrors is equal to the length of the picture lines.

It clearly appears from the testimonial record and the exhibits that in April, 1923, appellee completely constructed and tested a scanning apparatus through which electric impulses, made by the transmission of music and voice coming through a radio receiver were visually observed as moving streaks of light appearing on the narrow, vertical, abutting mirrors of a rotating drum. It seems that in 1923 there was no broadcasting of images or pictures. Therefore, it was impossible for appellee to have demonstrated that his apparatus could show such images or pictures.

Appellee contends in his testimony and in his brief that images of music and sound are recognized in the art of television as a feature of television reception. To support this contention there was received in evidence a photostatic copy of a Radio News article, known as Exhibit No. 45. The article is dated October, 1928.

The Examiner of Interferences disposed of this contention and held that the 1923 device was inoperable to show radio transmitted pictures as follows:

> The party Zillger states that television images of music and sound are recognized in the television art as a feature of television reception, and in this connection calls attention to the Radio News article (Zillger Exhibit 45). It does not appear however that the article supports this contention, particularly in view of a portion of the third paragraph which reads,
>
> "It (the machine described in the article) was built, *not for the purpose of receiving television images*, but merely to show how ordinary voice and music 'looks' in a television receiver". [Emphasis added.]
>
> It would appear that pictures of voice and music might be received on a device which would be inoperable to receive any intelligible television picture and a careful consideration of the 1923 device indicates that such was the case in this device. To give a complete television picture the "lines" must be scanned successively without interruption.
>
> The 1923 device comprises a circular drum E having mirrors F placed about the periphery thereof in abutting relationship (Exhibit 4). A careful analysis of the 1923 device shows that by reason of this abutting relationship only a portion of a television picture could possibly be scanned by this device.
>
> In viewing the light I through the horizontal slits V, the spot of light appearing will move from left to right through the window in the support H as the drum C and mirrors F are revolved in a clockwise direction. When the spot of light is at the extreme right edge of the window it is reflected from the backward edge of one of the mirrors. Since the forward edge of the next mirror abuts this backward edge the spot of light will not appear at the extreme left-hand edge of the window on the next lower slit, until the drum has revolved through a sufficient angle to bring this forward edge opposite the left edge of the window. The scanning of an image in the 1923 device is therefore interrupted for at least half of each line of the picture and no complete result could be obtained from this device for television purposes.

The Examiner of Interferences then held:

> The 1923 device is therefore not only not a reduction to practice but likewise not a conception of the invention since one skilled in the art could not make it operable for television signals without further invention. This is readily apparent in consideration of the device constructed in 1928 and hereinafter termed the 1928 device.

The device of 1928 differed from the earlier device in that instead of the mirrors abutting each other longitudinally and being fastened in a vertical position around a cylinder or drum, relatively long, narrow mirrors were fastened in horizontal, spiral position to the vertical cylinder and overlapped so that in rotating the cylinder, as the backward edge of the preceding mirror is adjacent the extreme right-hand edge of the picture, the forward edge of the succeeding mirror is adjacent the extreme left-hand edge of the picture.

The Examiner of Interferences held that the

device of 1928 would scan a complete picture without interruption and it is not disputed but that an image was received by and seen in this latter apparatus in the summer or fall of 1928. The only ground upon which the Examiner of Interferences held that the device of 1928 was not a reduction to practice was that the testimony concerning the successful operation of the device was vague. He stated as follows:

> The testimony as to the successful operation of the 1928 device is vague. Hagenlocker never saw a television picture but only light streaks produced by sound.
> Mrs. Zillger testifies that she saw a silhouette picture but gives no further particulars.
> Carp, testifying concerning the single television picture, states that the image was unsteady and faded considerably and that it appeared to be an image of a person's head (Q. 122, p. 263, Zillger Record). On cross-examination Carp stated that the image was a silhouette and he could not remember whether he was able to distinguish whether it was a man or a woman (X Q. 408, p. 295, Zillger Record). When asked if the silhouette was in profile he stated (A. Q. 409, p. 295, Zillger Record):
> "As I remember it the face seemed to move about but was never in such a way long enough to be absolutely certain for very long; as the picture disappeared and returned the performer may have changed."
> The results of this test do not indicate that the device was very satisfactory. Only a flitting image was seen by the observers, the character of which could not accurately be determined.
> The party Zillger points to the New York Times articles of May 20th, June 20th and June 22nd, 1928 (Exhibits 42, 43, and 44) as indicating the difficulty in receiving television images. However, it appears from the article of June 22, 1928 (Exhibit 44) that quite clear images were received.
> The single reception of a television picture, which was never later repeated, leads to the conclusion that the device was not made to operate successfully and did not constitute a reduction to practice. This conclusion is strengthened by the fact that after the device was destroyed in the flood of January, 1929, it was never rebuilt and no application was filed until July 1932. The device constructed in 1928 can not therefore be held to be a reduction to practice of the invention but only a conception of the invention as of that date.

The Examiner of Interferences held that although the appellee was entitled to the prior date of conception of the invention defined by the counts, he did not reduce to practice in 1928, and was not diligent from just prior to appellant's record date of June 16, 1930 to July 30, 1932, the filing date of the appellee's application.

The Board of Appeals, in its decision, we must assume, agreed with the holding of the Examiner of Interferences that the device of 1923 was not a conception of the involved invention, because in the decision of the Board it stated:

> The matter involved relates to a television system and the only question which we consider requires discussion by us is whether the party Zilliger's demonstration in 1928 establishes a reduction to practice.

We can see no error in the concurring holdings of the tribunals below as to the device of 1923 and affirm the decision of the Board of Appeals in this respect. The decision of the Examiner of Interferences which held that the demonstration of the 1928 device was not a reduction to practice was reversed by the Board of Appeals as follows:

> There appears to be no question but that the testimony of the corroborating witnesses show that an image of a person was received. It is true that the image was not very clear but we are of the opinion that, at that stage in the development of this art and under the conditions which existed at the time the test of the party Zillger was made, the reception of a picture which could be distinguished as that of a person is about all that could have been expected. We believe, therefore, that that demonstration should be regarded as a reduction to practice.
> We do not understand that at the date above mentioned it was considered necessary, in order to receive a patent, for the applicant to disclose a device which would receive pictures in a clear and fully satisfactory manner.

The record would indicate that the reception of pictures was demonstrated at more than the one time definitely testified to by Mrs. Zillger, wife of appellee, and a witness named Carp. Appellee said that certain unnamed visitors had seen pictures at his home at one time or another and Mrs. Zillger testified she had seen them several times. In any event, the reception of an image or images was seen on one occasion by Mrs. Zillger and the witness Carp. We do not think that corroborating testimony need go to the extent of showing that every one of these demonstrations of the invention had to be witnessed.

It appears from the record that in the spring of 1928 the broadcasting of pictures was far from perfect. This is borne out by the statement of a representative of the broadcasting station, WGY, which appeared in the radio section of the New York Times of May 20, 1928, and a photostatic copy of this statement is in evidence.

The statement reads:

> "I want to make it clear that these early television pictures will not be masterpieces. But no matter what we put on the air, the television experimenters at this stage of the development will not be too critical. They must not expect a fine picture. They should be happy just to catch a glimpse of a moving image, whether it be a research engineer, a pretty girl, a horse or a camel. The nature of the picture should make no difference."

In another sheet of the same publication, dated June 20, 1928, a copy of which is evidence, a report from Roselle, N. J., concerning the broadcasts of WGY reads, in part, as follows:

> Accompanied by a drone not unlike that of a passing airplane issuing from the loud speaker of a six-tube electrical set an image rather grotesque in shape flitted across the screen of the television machine. • • •

The Examiner of Interferences evidently considered a statement reported to have been made by a research engineer of the General Electric Company which appeared in the radio section of the New York Times, dated June 22, 1928, a copy of which is in evidence, as sufficient to establish a clear reception of images broadcast by WGY.

The statement, evidently made by a newswriter and not quoted, is:

> He said the images were quite clear and were about one inch square. • • •

We are of opinion, considering all of the record on this phase of the issue, that the alleged statement of the research engineer merely meant that the image was quite clear considering the state of the art of transmission of television pictures at that time. It seems to be reasonable that if the transmitted pictures were clear, in the usual meaning of the term, in the spring or early summer of 1928, that achievement would certainly have been announced by the broadcasting stations.

Furthermore, there is uncontradicted evidence that the 1928 device was specifically adapted to receive the television pictures broadcast by station WGY. Appellee knew the number of picture lines per second that station WGY transmitted. Likewise, there is no contradiction of the fact that his drum contained 24 mirrors to correspond with the 24 picture lines transmitted by station WGY and the motor of his device was adjusted for 1200 R. P. M. which was the correct number of revolutions per minute to enable the device to show 20 complete pictures per second, thus showing moving images. There is also evidence in the record that Zillger had a schedule of the television broadcasting time of station WGY. These facts, coupled with the evidence that images were actually received indicate that there was an actual reduction to practice in the summer or early fall of 1928.

We are of opinion, as was held by the Board, that under the then prevailing conditions and circumstances, appellee has shown a reduction to practice by his demonstration of the device of 1928.

Although appellee did not file his application for approximately four years after he reduced to practice and while the record shows that his 1928 device was destroyed by flood and not rebuilt, the question of suppression or being spurred into activity when appellant entered the field is not before us. This appeal has been brought solely on the theory that there has been no sufficient showing of reduction of the invention to practice and lack of diligence on the part of appellee from just prior to appellant's record date of June 16, 1930, to appellee's filing date of June 30, 1932.

Since we agree with the Board that appellee has properly shown reduction to practice, the question of subsequent diligence need not be considered.

The decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,392,584, Lewis & Cooke, Art of distilling petroleum oils; 1,448,254, Burton & Clark, Process of treating petroleum oils; 1,851,526, Shaeffer & Brown, Cracking system, D. C., E. D. Okla. (Muskogee), Doc. E 4462, *Standard Oil Co.* v. *Rock Island Refining Co.* Dismissed May 12, 1939.

1,448,254. (See 1,392,584.)

1,452,197, 1,465,629, R. B. Gilchrist, Drink mixer, filed May 2, 1939, D. C., N. D. Ill., E. Div., Doc. 531, *Scovill Mfg. Co.* v. *S. Schnuham & Co.*

1,465,629. (See 1,452,197.)

1,488,656, G. H. Wallace, Chemical heater; 2,040,406, R. E. Reed, Chemical heating composition and method of chemically producing heat; 2,040,407, same, Chemical heating composition, D. C., N. D. Ill., E. Div., Doc. 15292, *The Kendall Co.* v. *Western Hair Goods, Inc.* By stipulation, bill dismissed without prejudice Apr. 5, 1939.

1,537,583, 1,537,658, G. C. Carhart, Gear lapping machine, D. C., E. D. Mich. (Detroit), Doc. 6998, *Michigan Tool Co.* v. *National Broach & Machine Co.* Dismissed May 15, 1939.

1,537,658. (See 1,537,583.) 1,570,032. (See 1,908,117.)

1,680,818. (See 1,704,173.)

1,704,173, J. W. Chesney, Process for treating foods; 1,723,603, same, Process of sterilization and food activation; 1,680,818, H. Steenbock, Antirachitic product and process, D. C., N. D. Ill., E. Div., Doc. 14737, *New Discoveries, Inc.*, v. *Wisconsin Alumni Research Foundation.* Dismissed on motion of plaintiff Feb. 13, 1939.

1,723,603. (See 1,704,173.)

1,745,162, 1,795,023, J. Gordon, Ironing machine, D. C., N. D. Ill., E. Div., Doc. 15546, *J. Gordon* v. *Westinghouse Electric & Appliance Co.* Claims 4 and 7 of 1,745,162, and claim 9 of 1,795,023 held valid and infringed, injunction May 27, 1938. Mandate affirming decree Apr. 27, 1939.

1,746,852, L. X. Champean, Device for artificial illumination; T. M. 281,683, Holophane Co., Inc., Metal and combination glass and metal globes and reflectors, D. C., N. D. Ill., E. Div., Doc. 15518, *Kirby, Inc., et al.* v. *A. M. Knauber, Jr.* (*Electric Equipment Co.*). Patent and trade-mark held valid and infringed Mar. 24, 1939.

1,783,864, C. W. Vogt, Apparatus and process for treating materials; 1,972,253, same, Apparatus and process for preparing and packing food products; 1,783,867, same, Machine for processing materials; 1,881,106, Vogt & Wymond, Can filler, filed Nov 7, 1938, C. C. A., 3d Cir., Doc. 6936, *Girdler Corp. et al.* v. *Abbotts Dairies, Inc.*

1,783,867. (See 1,783,864.) 1,795,023. (See 1,745,162.)

1,851,526. (See 1,392,584.)

1,859,198, K. E. Cunningham, Combination garment; 1,899,890, same, Foundation garment, D. C., N. D. Ill., E. Div., Doc. 15565, *The H. W. Gossard Co.* v. *Loeber's, Inc.* Claim 1 of 1,899,890 and claims 3 to 8, inclusive, of 1,859,198 held valid and infringed, injunction May 5, 1939.

1,881,106. (See 1,783,864.) 1,899,890. (See 1,859,198.)

1,908,117, Clapp & Eickhoff, Apparatus and method of handling fluent material; 1,570,032, J. Baldner, Grease dispensing apparatus, D. C., N. D. Ill., E. Div., Doc. 15323, *K. S. Clapp* v. *Alemite Corp.* Bill in so far as it charges infringement of claims 8, 13, 27, and 33 of 1,908,117 is dismissed with prejudice; bill also dismissed for want of equity Apr. 5, 1939.

1,910,419. (See Re. 20,776.)

1,928,948, 2,117,978, P. R. Oftedal, Weather strip; 2,108,137, Oftedal & Kingsley, Threshold, filed May 10, 1939, D. C., N. D. Ill., E. Div., Doc. 573, *P. R. Oftedal* (*Protex Weatherstrip Mfg. Co.*) v. *M. S. Oftedal* (*Master Metal Strip Service Co.*).

1,932,274. (See 2,039,171.)

1,933,948, M. Weber, Fan wheel; Des. 91,002, same, Air circulator, D. C., N. D. Ill., E. Div., Doc. 15270, *M. Weber* v. *A. Bodenweiser et al.* Dismissed by stipulation Apr. 18, 1939.

1,936,451, O. G. Hildebrand, Portable lamp; Des. 104,845, E. R. Goodman, Wall bracket lamp, D. C., N. D. Ohio, E. Div., Doc. 19712, *Railley Corp.* v. *The Frankelite Co. et al.* Consent judgment dismissing bill without prejudice May 12, 1939.

1,945,480, E. M. Deems, Bond; 2,045,126, same, Conductor, D. C., S. D. N. Y., Doc. E 86/37, *Railroad Accessories Corp.* v. *Ohio Brass Co.* Dismissed without prejudice (notice May 19, 1939).

1,948,125, C. H. Nordell, Screen; 2,085,326, same, Comminuter, filed May 8, 1939, D. C., N. D. Ill., E. Div., Doc. 570, *C. H. Nordell et al.* v. *International Filter Co.*

1,957,237, W. L. Upson, Fan blade; Des. 89,076, J. W. Gosling, Electric fan, D. C., S. D. N. Y., Doc. E 79/228, *General Electric Co.* v. *The Emerson Electric Mfg. Co.* Consent decree for plaintiff, design patent held invalid (notice May 17, 1939).

1,969,513, G. S. Kelley, Dust deflector; 2,144,586, same, Method of rock drilling and dust removal therefor, filed May 22, 1939, D. C. Conn. (New Haven), Doc. 130, *Kodco Corp.* v. *The Spencer Turbine Co.*

1,972,253. (See 1,783,864.)

1,989,650, R. S. Drummond, Method of lapping gears; 1,989,651, same, Method of finishing gears, D. C., E. D. Mich. (Detroit), Doc. 7563, *National Broach & Machine Co. et al.* v. *Michigan Tool Co.* Dismissed May 15, 1939.

1,989,651. (See 1,989,650.)

1,994,345, Holstein & Ginder, Purifying zinc vapor; 1,994,358, same, Purification or separation of metals, appeal filed Dec. 28, 1938, C. C. A., 3d Cir., Doc. 6975, *E. R. Smoley* v. *New Jersey Zinc Co.*

1,994,358. (See 1,994,345.)

2,011,118. Robertson & Staples, Fabric and method of and apparatus for treating same, D. C., S. D. N. Y., Doc. E 87/279, *Mount Hope Finishing Co.* v. *Rhode Island Mills, Inc.* Dismissed on stipulation of parties May 20, 1939.

2,011,747, M. Bechik, Handle for mattresses, box springs, and cushions; 2,105,580, same, Handle, filed May 17, 1939, D. C., S. D. N. Y., Doc. 3/495, *M. Bechik* v. *Flexible Tuft Corp.*

2,039,171. J. Kublanow, Wall tie; Re. 20,116 (of 1,932,274), same, Sidewall mounting structure, appeal filed May 18, 1938, C. C. A., 3d Cir., Doc. 6785, *Starlock Mfg. Co.* v. *J. Kublanow et al.*

2,040,406. (See 1,488,656.) 2,040,407. (See 1,488,656.)

2,045,126. (See 1,945,480.) 2,085,326. (See 1,948,125.)

2,091,735. (See Des. 100,375.)

2,105,580. (See 2,011,747.)

2,108,137. (See 1,928,948.) 2,117,978. (See 1,928,948.)

2,133,772. R. H. Pershall, Combined shearing device and closure for liquid dispensers; 2,154,581, same, Closure attachment for containers; Des. 109,789, same, Closure attachment for a pitcher; Des. 112,150, same, Dispensing cover for a pitcher, filed May 11, 1939, D. C., N. D. Ill., E. Div., Doc. 577, *Na-Mac Products Corp.* v. *Sears, Roebuck & Co.*

2,144,586. (See 1,969,513.) 2,154,581. (See 2,133,772.)

Re. 20,116. (See 2,039,171.)

Re. 20,776 (1,910,419), F. H. Amon, Method of producing colored concrete (suit for declaratory judgment), D. C., S. D. N. Y., Doc. 2/176, *Thompson Materials Corp.* v. *Dewey & Almy Chemical Co. et al.* Stipulation of dismissal, without prejudice May 17, 1939.

Des. 68,615. A. G. Decker, Handle for portable power driven tool; T. M. 284,185, The Black & Decker Mfg. Co., Electrical apparatus and machines and accessories, D. C., N. D. Ill., E. Div., Doc. 505, *The Black & Decker Mfg. Co.* v. *Republic Machinery Sales Co.* Consent decree, holding infringement of the patent and plaintiff's right under the trade-mark May 9, 1939.

Des. 89,076. (See 1,957,237.)

Des. 91,002. (See 1,933,948.)

Des. 100,375. I. Jepson, Liquid sprayer; 2,091,735. Des. 102,467. F. Lindell, same (suit for declaratory judgment), D. C., N. D. Ill., E. Div., Doc. 15654, *F. Lindell (Square Tool & Die Co.)* v. *Chicago Flexible Shaft Co.* Des. 100,375 held valid but not infringed, 2,091,735 held valid and infringed, injunction. Both patents belong to defendant counterclaimant Apr. 4, 1939.

Des. 102,467. (See Des. 100,375.)

Des. 102,517, Des. 102,518, Seibert & Williams, Grave marker, filed May 15, 1939, D. C., S. D. Tex. (Houston). Doc. 115, *J. H. Matthew & Co.* v. *J. Dee (Bronze Art Memorials)*.

Des. 102,518. (See Des. 102,517.)

Des. 104,845. (See 1,936,451.)

Des. 109,789. (See 2,133,772.)

Des. 112,150. (See 2,133,772.)

T. M. 120,330, A. Bourjois & Co., Inc., Face powder, toilet powder, sachet powder, et al., T. M. 255,826, Bourjois, Inc., Toilet preparation, appeal filed Nov. 26, 1938. C. C. A., 3d Cir., Doc. 6950, *Bourjois, Inc.*, v. *Hermida Laboratories, Inc.*

T. M. 255,826. (See T. M. 120,330.)

T. M. 281,683. (See 1,746,852.)

T. M. 284,185. (See Des. 68,615.)

Trade-Mark Registrations Canceled

196,302. Breakfast foods. Clarence L. Wickstrom, doing business as Sunswheat Cereal Company, Seattle, Wash. Registered March 17, 1925. Canceled July 7, 1939.

212,023. Certain named dried fruit. Walter A. Alderman, Sacramento, Calif. Registered April 20, 1926. Canceled July 21, 1939.

250,120. Cleaning and polishing preparation. Superior Products Company, Dallas, Tex. Registered November 27, 1928. Canceled July 21, 1939.

312,005. Whiskey. Bennett Distilling Company, San Francisco, Calif. Registered April 10, 1934. Canceled July 7, 1939.

318,430. Ladies' handbags. Friedman-Lobel, Inc., New York, N. Y. Registered October 23, 1934. Canceled July 21, 1939.

325,483. Skin ointment. Remederm Corporation, New York, N. Y. Registered June 25, 1935. Canceled July 21, 1939.

358,679. Watches, clocks, chronometers, and dials therefor. Robert L. Hunter, doing business as The Nautical Clock Co., Norfolk, Va. Registered July 19, 1938. Canceled July 7, 1939.

Disclaimers

1,475,198.—*Louis Potthoff*, deceased, by *Hamilton Trust Company, executor*, a corporation of Brooklyn, N. Y. ELECTROPLATING APPARATUS. Patent dated November 27, 1923. Disclaimer filed July 11, 1939, by the assignee, *U. S. Galvanizing & Plating Equipment Corporation.*

Hereby enters this disclaimer of claims 5, 6, 7, 8, 9, 16, 17, 18, 19, 20, and 21.

1,658,678.—*William B. Heiniger*, Jersey City, N. J. AUTOMATIC PRESSURE RETAINING AND SUSTAINING VALVE FOR AIR-BRAKE SYSTEMS. Patent dated February 7, 1928. Disclaimer filed July 19, 1939, by the assignee, *Richard Irvin & Company Incorporated*, and the inventor.

Hereby enter this disclaimer to claims 1 and 4.

1,732,708.—*Joseph E. Withrow* and *Lyman W. Close*, Toledo, Ohio. BURNER. Patent dated October 22, 1929. Disclaimer filed July 14, 1939, by the assignee, *The Toledo Pressed Steel Company.*

Hereby enters this disclaimer to claims 1, 2, 5, 6, 7, 11, 12, and 13 of the above identified patent.

1,854,823.—*Benjamin E. Bertran* and *Josie A. Bertran*, Los Angeles, Calif. MEANS FOR PREPARING HOLES FOR CONCRETE FOOTINGS. Patent dated April 19, 1932. Disclaimer filed July 19, 1939, by the patentees.

Hereby enter this disclaimer to claims 4 and 9 in said specification.

1,959,799.—*Kurt T. Potthoff*, Brooklyn, N. Y. METHOD AND APPARATUS FOR TREATING MATERIAL. Patent dated May 22, 1934. Disclaimer filed July 11, 1939, by the assignee, *U. S. Galvanizing & Plating Equipment Corporation.*

Hereby enters this disclaimer to claims 19, 20, 35, and 38 of said Letters Patent.

2,032,497.—*Joseph F. Padgett*, Toledo, Ohio. UNIVERSAL JOINT. Patent dated March 3, 1936. Disclaimer filed July 12, 1939, by the patentee.

Hereby enters this disclaimer to claim 1 in said specification.

2,109,353.—*Charles S. Hazard*, New York, N. Y. AUTOMATIC ZEROIZING DEVICE FOR DISPENSING PUMPS. Patent dated February 22, 1938. Disclaimer filed July 12, 1939, by the assignee, *Neptune Meter Company.*

Hereby enters this disclaimer to claim 22 in said specification.

2,126,285.—*James E. Schaaf*, Nutley, N. J. REFRIGERATOR. Patent dated August 9, 1938. Disclaimer filed July 19, 1939, by the assignees, *General Electric Company* and *General Motors Corporation.*

Hereby enter this disclaimer of claims 6, 10, 11, and 26 of said patent.

2,126,464.—*Laurens Hammond*, Chicago, Ill. ELECTRICAL MUSICAL INSTRUMENT. Patent dated August 9, 1938. Disclaimer filed July 15, 1939, by the patentee.

Hereby enters this disclaimer to the combination covered by claim 46 of said patent except when the switch set forth in said claim controls a signal from a source which supplies the signal continuously, irrespective of the positions of said key and said sustaining pedal.

2,145,859.—*Frank W. Caldwell*, Hartford, Conn. CONTROL MEANS FOR CONTROLLABLE PROPELLERS. Patent dated February 7, 1939. Disclaimer filed July 13, 1939, by the assignee, *United Aircraft Corporation*; the inventor approving and consenting.

Hereby enters this disclaimer to claim 9 in said specification.

Changes in Classification

Order No. 3,481, July 19, 1939, directs:

In *class 65, Kitchen and Table Articles* (Division 8), abolish the following subclass:

25 **Fruit lifters.**

The patents formerly contained in this subclass have been placed for the most part in class 65, subclass 13, and in class 294, Handling, Hand and Hoist-Line Implements, appropriate subclasses, particularly subclass 61.

In *class 260, Chemistry, Carbon Compounds* (Division 59), change the title of subclass 314 to read:

Heterocyclic carbon compounds
Pyrrols
314 Intracyclic tetra-pyrryl (e. g., phthalocyanines),

abolish the existing definition and establish in lieu thereof the following:

314. Compounds under subclass 313 containing four pyrrole nuclei linked together in a great ring, e. g., phthalocyanines and porphyrins.

In *class 2, Apparel* (Division 24), in the main class definition number the existing note (*1*) and add:

(2) Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness of general application.

In *class 3, Artificial Body Members* (Division 55), in the main class definition, add to note (3):

227—FIRE ESCAPES, subclass 49, for body harness of general application;

and in subclass 11 add the following note:

(3) Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness of general application.

In *class 4, Baths, Closets, Sinks and Spittoons* (Division 1), subclass 258, add the following note:

Note.—See class 126, STOVES AND FURNACES, subclass 32, for spittoon attachments to cooking stoves.

In *class 9, Boats and Buoys* (Division 22), subclasses 17 and 21, add to each the following note:

Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness of general application.

In *class 16, Miscellaneous Hardware* (Division 20), subclass 2, add to note (8) the following:

217—WOODEN RECEPTACLES, subclass 98 and indented subclasses, particularly subclass 113.
285—PIPE JOINTS OR COUPLINGS, subclass 25 and indented subclasses, particularly subclasses 39, 40, 47, and 48:

and in subclass 110, note (10), change "subclasses" to *subclass* and cancel "and 25".

In *class 20, Wooden Buildings* (Division 33), subclass 72, in note (2) change the period to a comma and add *of general application.*

In *class 30, Cutlery* (Division 24), subclass 197, in the definition cancel "for alternative use".

In *class 54, Harness* (Division 11), in the main class definition number the existing note (*2*) and add:

(1) Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness of general application including harness useful for both human beings and animals.

In *class 62, Refrigeration* (Division 44), subclass 122, add under "Search class":

48—GAS, HEATING AND ILLUMINATING, subclass 1, for combined acetylene generation and liquefaction.

In *class 84, Music* (Division 5), subclass 1.19, number the existing note (*1*) and add:

(2) Note.—Patents claiming electrical tone generation apparatus of the character defined in subclass 1.01 wherein the tone partial selective control means merely selects a record having recorded thereon a recording of the sound waves required to produce the desired tone partials, or a pattern shaped to simulate the wave form of the desired tone partials, are not classified or cross-referenced into this subclass or indented subclasses, but are in subclasses 1.18 and 1.28 of this class.

In *class 88, Optics* (Division 7), subclass 80, add the following notes:

(1) Note.—See this class, subclass 101, for body supported mirrors.
(2) Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness of general application;

and in subclass 101 number the existing note (*1*) and add:

(2) Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness of general application.

In *class 92, Paper Making and Fiber Liberation* (Division 56), in the main class definition cancel existing note (1) and substitute:

(1) Note.—Patents claiming matter classifiable in more than one specific subclass of this class, are placed in the first appearing subclass and cross-referenced to the appropriate succeeding subclasses.

In *class 99, Foods and Beverages* (Division 63), subclass 20, in the definition change "from milk" to read *containing foods,*.

In *class 114, Ships* (Division 22), subclass 15, add the following note:

Note.—For color charts and systems of surface ornamentation in general for reducing the visibility of objects, see class 41, ORNAMENTATION, subclass 17.

In *class 119, Animal Husbandry* (Division 2), in the main class definition under "Search classes" add:

227—FIRE ESCAPES, subclass 49, for body harness per se of general application including harness usable for both human beings and animals.

In *class 126, Stoves and Furnaces* (Division 19), subclass 32, add the following note:

Note.—See class 4, BATHS, CLOSETS, SINKS AND SPITTOONS, subclass 258 and indented subclasses, for spittoons.

In *class 128, Surgery* (Division 55), in the main class definition, cancel the second and third paragraphs and substitute:

This class may include methods and means for manufacturing surgical appliances which are not classifiable in other classes.

(1) Note.—For specialized means for treating or training the body, or adjuncts to the body, see classes:
3—ARTIFICIAL BODY MEMBERS, for prosthetic devices.
27—UNDERTAKING, for means for embalming or otherwise caring for the dead body.
32—DENTISTRY.
119—ANIMAL HUSBANDRY, for means for the treatment and general care of livestock.
155—CHAIRS AND SEATS, subclasses 25–30, for dental and invalid chairs.
168—FARRIERY, for means for the care of the feet of animals.
311—SUPPORTS, TABLES, subclass 5 and indented subclasses, for surgical tables.
(2) Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness of general application;

in subclass 82 add under "Search class":

227—FIRE ESCAPES, subclass 49, for body harness of general application;

and in subclass 325 add the following note:

Note.—For means for stopping the flow of fluid through flexible tubular conduits, see class 251, VALVES, subclass 5.

In *class 155, Chairs and Seats* (Division 8), subclass 24, add the following note:

Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness of general application;

and in subclass 189 cancel note (2) and substitute:

(2) **Search Classes—**
5—BEDS, subclass 331, for devices for preventing an occupant from falling out of bed.
227—FIRE ESCAPES, subclass 49, for body harness of general application, and see the notes thereunder for body harness in other combinations.
296—LAND VEHICLES, BODIES AND TOPS, subclasses 77, 81, and 82.

In *class 170, Motors, Fluid Current* (Division 9), subclass 79, number the existing note (*1*) and add:

(2) **Search this class,** subclasses 133 and 134, for similar wheels operated by water.
(3) **Search this class,** subclass 156 and indented subclasses, for similar structures used as impellers;

and in subclass 156 number note (3) as (4) and add:

(3) **Search this class,** subclasses 79, 80, 133, and 134, for similar structures used in wind and water motors.

In *class 174, Electricity, Conductors and Insulators* (Division 65), subclass 23, add the following note:

(4) Note.—For joint packings per se, see class 288, JOINT PACKINGS, especially subclass 2 and indented subclasses.

In *class 211, Supports, Racks* (Division 8), subclass 119.01, cancel existing notes (8) and (9) and substitute:

(8) Note.—See class 15, BRUSHING, SCRUBBING AND GENERAL CLEANING, appropriate subclasses, for strand cleaners, particularly subclass 246, for strand guides having cleaner attachments.
(9) Note.—See class 254, PUSHING AND PULLING IMPLEMENTS, subclass 190 and indented subclasses, for strand guides, subclass 198 having sag preventers.

In *class 224, Package and Article Carriers* (Division 29), in the main class definition add the following note:

Note.—See class 227, FIRE ESCAPES, subclass 49, for body harness per se of general application, and see the notes under the definition of such subclass for other combinations utilizing body harness.

In *class 227, Fire Escapes* (Division 4), subclass 49, cancel all existing notes and substitute:

(1) Note.—This is the generic place for body harness, and takes body harness per se useful for both animals and human beings.
(2) Note.—For other body harness see classes:
2—APPAREL, appropriate subclasses, for body harness in combination with or constituting apparel, particularly subclasses 41–45.
3—ARTIFICIAL BODY MEMBERS, for body harness in combination therewith, particularly subclass 11.
9—BOATS AND BUOYS, particularly subclass 17 and indented subclasses, for life preserver combinations, and subclass 21, for swimming appliance combinations.
20—WOODEN BUILDINGS, subclass 72, for body harness in combination with modified or significant building structure.
45—FURNITURE, subclass 59, for book and music holders in combination with body harness.
54—HARNESS, for animal harness, both for draft purposes and for breaking or training purposes.
88—OPTICS, subclass 80, for body carried optical signals, and subclass 101, for body carried mirrors.
119—ANIMAL HUSBANDRY, for animal body harness, particularly subclasses 29, 66, 67, and 96 and indented subclasses.
128—SURGERY, for body harness limited to surgical purposes, particularly subclass 82 and indented subclasses.
155—CHAIRS AND SEATS, particularly subclass 17 and indented subclasses, for baby jumpers, subclass 24, for walkers' or skaters' supports with body harness, subclass 37, for body attached chairs and seats, and subclass 189, for chairs and seats with body harness.
224—PACKAGE AND ARTICLE CARRIERS, appropriate subclasses, for body harness combined with package and article carrying means.
241—GARMENT SUPPORTERS, appropriate subclasses, for body harness combined with garment supporting means.
242—WINDING AND REELING, subclass 96 and indented subclasses, for body carried reels.
244—AERONAUTICS, subclasses 122 and 151, for body harness in combination with aircraft seats and parachutes.
272—AMUSEMENT AND EXERCISING DEVICES, subclass 80, for body attached push and pull exercising devices.
280—LAND VEHICLES, subclass 290, for body harness for attaching occupants to occupant-propelled wheeled vehicles.
294—HANDLING, HAND AND HOIST-LINE IMPLEMENTS, subclass 25, for hand and finger attachments.
(3) Note.—For related subject matter, see classes:
24—BUCKLES, BUTTONS, CLASPS, ETC., particularly subclasses 115 and indented subclasses, for cord and rope holders; 140 and indented subclasses, for lacing devices; 163 and indented subclasses, for buckles; 201 and indented subclasses, for separable fasteners; 230.5, for hooks; 231 and indented subclasses, for snap hooks; 243 and indented subclasses, for clasps; and 265, for strap end attaching devices.
190—BAGGAGE, subclasses 26 and 27, for trunk harness.

In *class 242, Winding and Reeling* (Division 61), subclass 96, in note (2) add:

227—FIRE ESCAPES, subclass 49, for body harness of general application, and for search notes setting forth the field of search for body harness combinations.

In *class 244, Aeronautics* (Division 22), subclass 122, cancel note (2) and substitute:

(2) Note.—See class 227, FIRE ESCAPES, subclass 49, and the notes thereunder, for body harness;

and in subclass 151, cancel the existing note and substitute:

Note.—See class 227, FIRE ESCAPES, subclass 49, and the notes thereunder, for body harness.

In *class 251, Valves* (Division 39), subclass 5, add the following note:

Search Class—
128—SURGERY, subclass 325 and indented subclasses.

In *class 254, Pushing and Pulling Implements* (Division 61), subclass 190, in note (2) add:

15—BRUSHING, SCRUBBING AND GENERAL CLEANING, subclass 246, for strand guides combined with strand cleaners.

In *class 260, Chemistry, Carbon Compounds* (Divisions 6 and 50), in the main class definition, in the first sentence of note (3) after "cyanamide," insert *dicyandiamide.*; in the first sentence of note (10) cancel "for glue or gelatine, and for natural resins"; and in subclass 716, insert a period after "employed" and cancel the remainder of the sentence.

In *class 272, Amusement and Exercising Devices* (Division 57), subclass 80, add the following note:

Note.—See class 227, FIRE ESCAPES, subclass 49, and the notes thereunder, for body harness.

In *class 280, Land Vehicles* (Division 10), subclass 296, add the following note:

Note.—See class 227, FIRE ESCAPES, subclass 49 and the notes thereunder, for body harness.

In *class 285, Pipe Joints or Couplings* (Division 52), subclass 40, number the existing note (*1*) and add:

(2) Note.—See class 225, DISPENSING BEVERAGES, for such devices for dispensing beverages, particularly subclass 3, when more than the coupling means is claimed, for example, valves, means to remove closures or plugs, heat exchange means, etc. The mere specification that one of the passages is a pressure fluid inlet and the second is a material outlet will not exclude the patent from class 285 in the absence of features in addition to the coupling means.

In *class 288, Joint Packings* (Division 52), subclass 2, under "Search classes" add:

174—ELECTRICITY, CONDUCTORS AND INSULATORS, subclasses 20, 22, and 23, for electrical conduits, cables, or conductors having sealing means in the form of joint packings for preventing passage of a fluid from one section to another.

In *class 294, Handling, Hand and Hoist-Line Implements* (Division 4), in the main class definition, note (4), in the reference to class 65, Kitchen and Table Articles, cancel "25".

In *class 311, Supports, Tables* (Division 29), in the main class definition add the following note:

(12) Note.—Ironing tables are in class 38, TEXTILES, IRONING OR SMOOTHING, subclass 103 and indented subclasses.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 8, 1939

[VOL. 505. No. 2]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 2

Receptacles

Ser. No. 419,104. BURLINGTON BASKET COMPANY, Burlington, Iowa. Filed May 5, 1939.

Laundrymaster

For Clothes Basket and Stand Combination, (Sold as a Unit).
Claims use since Mar. 5, 1939.

Ser. No. 419,757. GENERAL BOX COMPANY, Chicago, Ill. Filed May 24, 1939.

GENERALITE

For Wooden Boxes for Bottled Goods and Other Commodities.
Claims use since Mar. 18, 1939.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 419,787. AMERICAN HARDWARE COMPANY, INC., Petersburg, Va. Filed May 25, 1939.

AIR PAK
LUGGAGE OF QUALITY

The phrase "Luggage of Quality" and the word "Pak" are disclaimed apart from the mark.
For Satchels and Suitcases.
Claims use since May 18, 1939.

Ser. No. 420,047. BUNTON, INCORPORATED, Springfield, Mass. Filed June 1, 1939.

3Way

For Billfolds, Purses, and Pocket Books.
Claims use since July 1, 1938.

Ser. No. 420,311. SAMUEL BRIER, doing business as Samuel Brier Company, Philadelphia, Pa. Filed June 9, 1939.

THE NOMAD

For Traveling Bags.
Claims use since May 23, 1939.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 417,062. REX CHEMICAL COMPANY, Chelsea, Mass. Filed Mar. 14, 1939.

REXITE

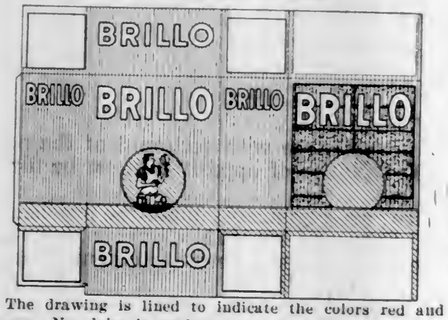
For Waterproofing Compound for Leather.
Claims use since Mar. 1, 1937.

Ser. No. 417,888. OSMIC CHEMICAL COMPANY, Brockton, Mass., assignor to The Elliott Corporation, Brockton, Mass., a corporation of Massachusetts. Filed Apr. 5, 1939.

DOO-DABS

For Chemically Treated Shoe Cleaners.
Claims use since Mar. 1, 1939.

Ser. No. 418,811. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.



The drawing is lined to indicate the colors red and green. No claim is made to the representation of the carton and to the representation of the scouring pads apart from the mark shown.

For Soaps, Cleaning, Scouring and Polishing Wads, Pads, Rolls, and Cloths of Abradant Nature for Removing Foreign Matter from Metal and Other Surfaces.

Claims use since Mar. 23, 1938.

Ser. No. 418,817. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.



No claim is made to the representation of the carton and to the representation of the scouring pads apart from the mark shown.

For Soaps, Cleaning, Scouring and Polishing Wads, Pads, Rolls, and Cloths of Abradant Nature for Removing Foreign Matter from Metal and Other Surfaces.

Claims use since Jan. 18, 1935.

Ser. No. 418,818. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.

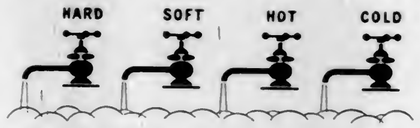


The drawing is lined to indicate the colors green and red. No claim is made to the representation of the carton and the representation of the scouring pads apart from the mark shown.

For Soaps, Cleaning, Scouring and Polishing Wads, Pads, Rolls, and Cloths of Abradant Nature for Removing Foreign Matter from Metal and Other Surfaces.

Claims use since Jan. 18, 1935.

Ser. No. 419,649. B. ALTMAN & CO., New York, N. Y. Filed May 22, 1939.



No claim is made to the words "Hard", "Soft", "Hot", "Cold" apart from the mark shown.

For Soap.

Claims use since May 13, 1939.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 393,787. CARYL VARNI, New York, N. Y. Filed June 7, 1937.

Get Dated

For Cold Creams, Cleansing Creams, Vanishing Creams, Rouge, Lipstick, Eyebrow Pencil, and Skin Lotion.

Claims use since May 3, 1937.

Ser. No. 419,721. HOUSE OF HOLLYWOOD, Los Angeles, Calif. Filed May 23, 1939.

TRAFFIC RED

The term "Red" is disclaimed except as shown.

For Cosmetics—Namely, Rouge, Lipstick, Toilet Creams, Toilet Lotions, Face Powder, Powder Base, and Nail Enamel.

Claims use since Apr. 19, 1939.

Ser. No. 419,765. HARRY D. KOENIG, New York, N. Y. Filed May 24, 1939.



The portrait is that of George Washington.

For Face Powder, Lipstick, Face Rouge, Cleansing Cream, Cold Cream, Foundation Cream, Astringent Lotion, Nail Polish, Liquid Nail Polish Remover, Tissue Cream, Mascara, Eye Shadow, Hand Lotion, Cucumber Face Cream, Muscle Oil, and Perfumes.

Claims use since May 6, 1939.

Ser. No. 420,036. WONDER PRODUCTS COMPANY, Canton, Ohio. Filed May 31, 1939.

ROSE-GLO

For Toilet Bowl Cleaner Having Incidental Deodorizing Properties.

Claims use since Apr. 14, 1939.

Ser. No. 420,060. W. EARLE HULTBERG, doing business as The Mayhi Company, Great Falls, Mont. Filed June 1, 1939.

MAYHI

For Antiseptic Powder for Use in the Treatment of Athlete's Foot, Sweaty Feet, Ulcers, Cuts, Blisters, Heat-Rash, Sunburn, Chafing, and All Minor Skin Diseases.

Claims use since May 18, 1939.

Ser. No. 420,091. CLAIROL, INC., New York, N. Y. Filed June 2, 1939.

cendrol

For Preparation for Toning the Color of Hair.

Claims use since Sept. 12, 1932.

Ser. No. 420,109. NATIONAL ANILINE & CHEMICAL COMPANY, INC., New York, N. Y. Filed June 2, 1939.

FIBROLAN

For Dyestuffs.

Claims use since Apr. 12, 1939.

Ser. No. 420,130. BARRETT PRODUCTS CO. INC., Boston, Mass. Filed June 3, 1939.

TRI-SO

For Pharmaceutical Preparation Which is Used for Antiseptic Mouth Wash.

Claims use since September, 1936.

Ser. No. 420,135. HARMON CHEMICALS, INC., Brooklyn, N. Y. Filed June 3, 1939.

GUIATHYME

For Medicinal Compound for Use for Coughs Due to Simple Colds.

Claims use since June, 1938.

Ser. No. 420,147. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed June 3, 1939.

PERMAZONE

For Anti-Freeze Composition for Use in Engine-Cooling Systems.

Claims use since May 17, 1939.

Ser. No. 420,272. ANTHONY VALENTI, doing business as Andredent Laboratories, New York, N. Y. Filed June 7, 1939.

ANDREDENT

For Powder Preparation for the Teeth to Remineralize the Same and Used as an Anti-Carieticum, Also as a Mouth Wash.

Claims use since Apr. 1, 1939.

Ser. No. 420,286. THE NATIONAL REFINING COMPANY, Cleveland, Ohio. Filed June 8, 1939.

EN-AR-CO

For Anti-Freeze Compound for Vehicle Radiators and the Like.

Claims use since May 9, 1939.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 419,821. STANDARD STEEL SPRING COMPANY, Coraopolis, Pa. Filed May 25, 1939.

CORRONIZED

For Protectively Surfaced Ferrous or Nonferrous Metals.

Claims use since Feb. 18, 1939.

Ser. No. 420,224. THE FORGING AND CASTING CORPORATION, Ferndale, Mich. Filed June 6, 1939.

AIRLOY

For Steel.

Claims use since May 25, 1939.

Ser. No. 420,225. THE FORGING AND CASTING CORPORATION, Ferndale, Mich. Filed June 6, 1939.

ROLOY

For Steel.

Claims use since May 25, 1939.

Ser. No. 420,322. HANSON-VAN WINKLE-MUNNING COMPANY, Matawan, N. J. Filed June 9, 1939.

9H

For Metal Anodes for Electroplating.
Claims use since Jan. 27, 1936.

CLASS 16

Paints and Painters' Materials

Ser. No. 410,361. THE HARRISON PAINT & VARNISH COMPANY, Canton, Ohio. Filed Sept. 8, 1938.



No claim is made to the words "Dutch Standard" apart from the mark.

For Ready Mixed Oil Paints, Paint Enamels and Varnish.

Claims use since June 2, 1933.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 403,618. STIX, BAER AND FULLER COMPANY, St. Louis, Mo. Filed Mar. 2, 1938.



For Electric Floor and Table Lamps.
Claims use since Jan. 1, 1938.

Ser. No. 414,702. LACY PRODUCTS CORP., Chicago, Ill. Filed Jan. 11, 1939.

QUICKIE

For Electric Hot Cups and Fudge Warmers.
Claims use since Nov. 21, 1938.

Ser. No. 415,449. THE FISCHMAN COMPANY, Philadelphia, Pa. Filed Jan. 31, 1939.

STERILSERVER

For Electric Sterilizers for Articles of Tableware and the Like.
Claims use since Jan. 30, 1939.

Ser. No. 420,369. THE GAMEWELL COMPANY, Newton and Newton Upper Falls, Mass. Filed June 10, 1939.

VOCALARM

For Audio Voice Communication Equipment and Parts Thereof Including Amplifiers, Speakers, Microphones, and Control Panels.
Claims use since Nov. 10, 1937.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 418,492. FRANZ MAYER, New York, N. Y. Filed Apr. 20, 1939



The representation of the ski pole, as such, and the word "Tyrol" are disclaimed apart from the mark.

For Sporting Goods—Namely, Skis and Component Parts Thereof, Ski Poles, Ski Bindings and Parts Thereof and Other Ski Accessories—Namely, Steel Edges, Rubber Straps to Hold Skis, Emergency Ski Tip, Ski Spreaders, Ski Press, Toe Irons, Heel Springs, Heel Tightener, Foot Plates, Ski Pole Baskets, Ski Pole Grips, Ski Waxes and Lacquer, Ski Wax Cork, Wax Remover; Ice Skates, Snow Shoes, Golf Balls, Golf Clubs, Golf Bags, Golf Tees, Golf Gloves, Tennis Rackets, Racket Covers, Fishing Rods, Fishing Rod Cases, Fishing Reels, Baseballs, Baseball Gloves.

Claims use since Jan. 1, 1939.

Ser. No. 420,588. WILLIAM LANGER, Chicago, Ill. Filed June 16, 1939.

"APPEASEMENT"

For Board Games Utilizing a Board and a Deck of Playing Cards, or a Chance Element.
Claims use since May, 1939.

Ser. No. 420,660. ROBERT M. ARLINGTON, Riverside, Calif. Filed June 19, 1939.



For Board Game Played with Movable Pieces.
Claims use since June 10, 1939.

Ser. No. 420,944. ELDER MANUFACTURING COMPANY, St. Louis, Mo. Filed June 26, 1939.

Tom SAWYER

For Marbles, Toy Balloons, Footballs, Sponge Balls, Baseballs, Baseball Bats, Paddle Balls, Whistles, Puzzles, and Kites.
Claims use since Jan. 1, 1924.

Ser. No. 420,971. ROUTLEDGE MFG. CO., Monroe, Mich. Filed June 26, 1939.

MO-SKEET-O

For Marksmanship Practice Game and the Various Apparatus Therefor.
Claims use since Apr. 1, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 417,875. INTERNATIONAL CIGAR MACHINERY COMPANY, Jersey City, N. J. Filed Apr. 5, 1939.



The lining used in the drawing indicates the color of the background as of a red shade, but no claim is made to a red color as a distinctive feature of the trade-mark, nor is it regarded as an essential feature of the mark.

For Cigar-Making Machinery and Parts Thereof, also Tobacco Threshing and Winnowing Machines and Parts Thereof.

Claims use since December, 1938.

Ser. No. 418,005. GRAY TOOL COMPANY, Houston, Tex. Filed Apr. 8, 1939.



Applicant disclaims the words "Systems of Well Control", "Control", "Economy", and "Flexibility" except as shown. The drawing is lined to indicate the color orange.

For Apparatus and Equipment for Drilling, Completing, and Controlling Oil Wells—Namely, Casing Heads, Casing Hangers, Casing Outlet Valves, Tubing Heads, Tubing Hangers, Tubing Outlet Valves, Blow-Out Preventers, Casing Clamps, Casing Perforators, Packers, Valve Removal Tools, Valve Removal Plugs, Control Manifolds, Christmas Trees, Christmas Tree Valves, Hanger Couplings, Reducing Spools, Spacers, Chokes, Slips, Adapters, Pumping Heads, Stuffing Boxes, Flow Nipples, Flanged Fittings, Manifold Clamps, Nipples, Bull Plugs, Fishing Tools, Pipe Racks, Fluid Lifting Devices, Valve Equalizing Devices, Swivels, Back Pressure Valves, Milling Tools, Mud Supports, Master Crosses, Overshots, Back-Up Tools, Taper Taps, Box Taps, Latch Jacks, and Whip Stocks.
Claims use since Mar. 21, 1939.

Ser. No. 418,608. TEXTILE MACHINE WORKS, Wyomissing, Pa. Filed Apr. 22, 1939.

TMW

For Knitting Machines and Parts Thereof and Accessories and Attachments Therefor Comprising Spring Beard Needles, Needle Straightening Devices, Sinkers, Sinkerheads, Verge Plates, Dividers, Knock-Over Bits, Jacks, Jack Combs, Jack Springs, Loop Engaging Points, Needle Engaging Points, Welt Hooks, Welt Bars, Yarn Carriers, Yarn Boxes, Yarn Moistening Devices, Yarn Conditioning Equipment, Drip Aprons, Drip Pans, Friction Boxes, Friction Box Shoes, Transfer Bar Lifting Motion Mechanisms, Channel Irons, Course Counters, Pattern Chain Devices, Cam Shaft Brake Devices, Cam Shaft Balancing Cams, Loop Regulating Devices, Splicing Rocker Attachments, Fabric Take-Up Attachments, Take-Up Attachment Safety Stop Devices, Thread Tension Devices, Thread Tension Release Devices, Reinforced Selvedge Attachments, Yarn Carrier Arresting Devices, Carrier Rod Shock Absorbers, Friction Rod Cooling Devices, Selective Yarn Feeding Attachments, Universal Carrier Control Attachments, Horizontal Stripe Attachments, Lace and Mesh Attachments, Stop Devices for Mesh Attachments, Ravel Course Attachments, Shadow Clock Attachments, Lock Stitch and Non-Run Attachments, Idle Course Attachments, Loose Course Attachments, Plating Attachments,

Splicing Blocks, Split Seam Attachments, Initial Marking Attachments, Covering Knives, Covering Knife Motion Attachments, Single Needle Narrowing Attachments, Speed Control Switches, Safety Stop Devices for Handwheel Shafts, Safety Drive Mechanisms for Handwheel Shafts, Safety Stop Devices for Coulier Mechanism, and Safety Release Devices for Narrowing Machines; Topping Machines and parts Thereof and Accessories Therefor Comprising Topping Points, Transfer Points, Knockover Bits, Transfer Bars, Needle Bars and Topping Tables; Driving Mechanisms for Loopers and Seamers, Looping Tables, Seaming Tables; Hosiery Expanding Examining Devices and Supporting Tables Therefor; Hosiery Stamping Machines and Stamping Tables Therefor; Hat and Garment Stamping Machines, Label Applying Devices; Hosiery Pairing Tables; Hosiery Dividing Racks; Legger Tables; Footer Tables; Hosiery Mending Tables; Hosiery Labelling Tables; Hosiery Wrapping Tables; Hosiery Display Forms; Braiding Machines and Parts Thereof and Accessories Therefor Comprising Plain or Flat Braiders, Rotary Braiders, Tubular Braiders, Hercules Braiders, Diamond Braiders, Square Braiders, Cordedge Braiders, Bi-Circle Braiders, Tubular Wire and Cable Braiders, Duplex Wire and Cable Braiders, Compound Wire and Cable Braiders, Double Deck Wire and Cable Braiders, Triple Deck Wire and Cable Braiders, Packing Braiders, Lace Machines, Steel Wire Braiders, Flat Steel Wire Braiders, Tubular Steel Wire Braiders, Winders, Doublers, Twisters, Spoolers, Take-Off Fixtures, Stands and Reels, Braiding and Strand Carriers, Tension Devices for Carriers, Plain Soutache Braiders, Plaited Soutache Braiders, Driving Tables for Regular Braiders, Driving Tables for Wire Braiders, Stripe Braiders, Cross Binding Braiders, Catheter Braiders, Vienna Oval Braiders, President Braiders, Coral Braiders, Fringe Braiders, Purl Edge Braiders, Mould Braiders, Straw Braiders, Fishline Braiders, Candlewick Braiders, Gas Tubing Braiders, Rubber Hose Braiders, Cord Braiders, Interlacing Braiders, Folded Raceway Braiders, Loop-Tubular Braiders, Necktie Braiders, Magnet Wire Winders, Annunciator Wire Winders, Telephone Cord Braiders, Rat Braiders, Braiders for Millinery Products, Bise Machines, Lapping Machines, Plaiting Machines, Spooling Machines and Devices, Tipping Machines, Twisting Machines, Gimp Machines, Bunching Machines, Stranding Machines, Jacquard Card Punching Devices, Separating Machines, Saturating Devices, Braid Spreading Machines, Fabric Sizing Machines, and Spool Stands; Pulleys; Portable Centrifugal Extractors; Drilling and Tapping Machines; Tools for Knitting and Braiding Machines; Jigs; Machine Drive Control Mechanisms; Clutch Drive Mechanisms; Bushings; Speed Control Devices; Machine Safety Stop Devices; and Machine Brake Devices.

Claims use since Apr. 21, 1939.

Ser. No. 419,205. EDGAR WEIL, Philadelphia, Pa. Filed May 8, 1939.

SERATA

For Knives Such as Made of Other Material Besides Precious Metal, and Made for Cutting Bread, Cake, Fruit, and Other Such Material.

Claims use since Apr. 24, 1939.

Ser. No. 420,233. MURCOTT & CAMPBELL, INC., New York, N. Y. Filed June 6, 1939.

DIXIE

For Files.

Claims use since Sept. 28, 1938.

Ser. No. 420,278. THE GLEASON WORKS, Rochester, N. Y. Filed June 8, 1939.

CYCLEX

For Gear Cutting Tools and Blades Therefor.

Claims use since May 25, 1939.

Ser. No. 420,379. MAGAZINE REPEATING RAZOR COMPANY, New York, N. Y. Filed June 10, 1939.

ERAZOR

For Razors and Razor Blades.

Claims use since May 21, 1939.

Ser. No. 420,385. NATIONAL LEAD COMPANY, New York, N. Y. Filed June 10, 1939.

E.W.B.

For Printing Appliances Generally and Particularly for Printing Clamps and Pin Catches.

Claims use since June 1, 1939.

Ser. No. 420,424. WALTER G. MOREY, doing business as Morey Paper Mill Supply Company, Boston, Mass. Filed June 12, 1939.

ZEPHYR

For Drier Felts for Paper Machines.

Claims use since Aug. 5, 1938.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 406,542. THE ADVITAGRAPH CORPORATION, Louisville, Ky. Filed May 20, 1938.

Flo-lite

For Motion Picture Projectors.

Claims use since October, 1932.

Ser. No. 420,104. ILEX OPTICAL COMPANY, Rochester, N. Y. Filed June 2, 1939.

ILEXPO

For Cameras and Camera Shutters.

Claims use since April, 1922.

CLASS 31

Filters and Refrigerators

Ser. No. 421,037. GIBSON ELECTRIC REFRIGERATOR CORPORATION, Greenville, Mich. Filed June 28, 1939.

HUMIDIZONE

For Refrigerators.

Claims use since June 22, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 409,448. SURE REST BEDDING CO., Newark, N. J. Filed Aug. 10, 1938.

A "SURE-REST" Product

The words "A" and "Product" are disclaimed apart from the mark.

For Mattresses, Springs, Pillows, Gliders, and Studio Couches.

Claims use since Jan. 1, 1933.

Ser. No. 420,643. THE ORRVILLE BEDDING COMPANY, Orrville, Ohio. Filed June 17, 1939.

HAND FINISHED by the ORRVILLE CRAFTSMEN

The words "Hand Finished by the Orrville Craftsmen" are disclaimed apart from the mark.

For Hand-Finished Mattresses and Box Springs.

Claims use since Apr. 18, 1939.

Ser. No. 420,994. FORT PITT BEDDING COMPANY, Pittsburgh, Pa. Filed June 27, 1939.

ARISTON

For Mattresses.

Claims use since Feb. 23, 1939.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 421,139. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed June 30, 1939.

GENERAL

For Vehicle Tires of Rubber and Fabric, Inner Tubes for Vehicle Tires, Repair Patches of Rubber and Rubber and Fabric.

Claims use since Nov. 1, 1935.

CLASS 36

Musical Instruments and Supplies

Ser. No. 405,922. WILLIAM FRANK COMPANY, Chicago, Ill. Filed May 2, 1938.

THE Classic

For Musical Instruments Consisting of Cornets, Trumpets, Fluegel Horns, Trombones, Alto Horns, French Horns, Mellophones, Baritone Horns, Bass Horns, Sousaphones, Bugles, Saxophones, and Clarinets.

Claims use since March, 1924.

Ser. No. 418,513. DORN & KIRSCHNER BAND INSTRUMENT CO., INC., Newark, N. J. Filed Apr. 21, 1939.

DeKay MUSICAL PRODUCTS

The expression "Musical Products" is disclaimed.
For Stringed Musical Instruments, Woodwind and Metal Wind Instruments with or without Reeds (Exclusive of Organs), All Types of Accessory Orchestral and Band Instruments Such as Percussion Instruments, Imitating Instruments, Xylophones, Etc., and Parts for All the Foregoing and Accessories Such as Stringed Instrument Bows, Picks, Etc., Music Stands, Pitch Pipes, Timing Forks, Megaphones, Etc.
Claims use since Nov. 29, 1937.

CLASS 39

Clothing

Ser. No. 392,974. GALE SHOE MFG. CO., Boston, Mass. Filed May 19, 1937.

FREE-"N"-EASY

The word "Easy" is disclaimed apart from the mark.
For Women's Leather Shoes, Fabric Shoes, and Shoes of Leather and Fabric.
Claims use since April, 1937.

Ser. No. 407,059. DORSA DRESSES, INC., St. Louis, Mo. Filed June 3, 1938.

Dorsa

For Ladies' and Girls' Dresses.
Claims use since February, 1932.

Ser. No. 415,561. STAR-MAID DRESSES, INC., New York, N. Y. Filed Feb. 3, 1939.

Casual Americana

No claim is made to the exclusive use of the word "Casual" apart from the mark shown.
For Women's and Misses' Outerwear—Namely, Dresses, Coats, Suits, Skirts, Blouses, Playsuits, and Slacks.
Claims use since Jan. 23, 1939.

Ser. No. 416,334. PASSARELLI, INC., New York, N. Y. Filed Feb. 23, 1939.

PEBBLE-AIR

The word "Pebble" is disclaimed apart from the mark.
For Ladies' Suits, Coats, and Skirts.
Claims use since Jan. 30, 1939.

Ser. No. 416,776. JACK SMITH, doing business as Boston Shoe Company, Los Angeles, Calif. Filed Mar. 7, 1939.



The lining on the drawing is for the purpose of shading only. The words "Boston Standard Shoes" are disclaimed apart from the mark.
For Shoes and Slippers for Men, Women, and Children, of Leather, Fabric, and Combinations Thereof.
Claims use since Sept. 1, 1928.

Ser. No. 417,163. BUCKEYE GLOVE COMPANY, Toledo, Ohio. Filed Mar. 17, 1939.

BUCKEYE



DUX-SKIN

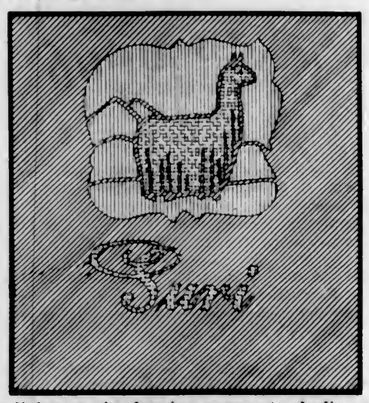
No registration rights are claimed for the word "Buckeye."
For Cloth Work Gloves.
Claims use since Mar. 1, 1939.

Ser. No. 417,246. THE WILLOW SHIRT AND UNDERWEAR CORPORATION, New Haven, Conn. Filed Mar. 18, 1939.



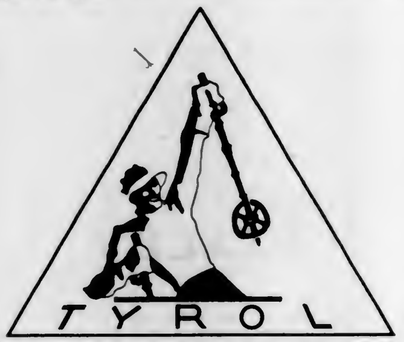
The drawing is lined to show the color red.
For Men's Outer Shirts.
Claims use since Mar. 11, 1939.

Ser. No. 417,879. B. KUPPENHEIMER & CO. INC., Chicago, Ill. Filed Apr. 5, 1939.



The lining on the drawing represents shading merely.
For Men's and Boys' Ready-to-Wear Coats, Vests, Trousers, and Overcoats.
Claims use since December, 1938.

Ser. No. 418,491. FRANZ MAYER, New York, N. Y. Filed Apr. 20, 1939.



The word "Tyrol" is disclaimed apart from the mark.
For Men's, Women's, and Children's Wear—Namely, Coats, Suits, Dresses, Underwear, Sweaters, Jackets, Blouses, Slacks, Hats, Stockings; Shoes Made of Leather, Rubber or Fabric or of Combinations of Said Materials; Socks, Caps, Scarfs, Necktles; Gloves of Leather, Rubber, and Fabric; Sports, Ski, and Snow Wear—Namely, Coats, Suits, Dresses, Underwear, Sweaters, Jackets, Blouses, Slacks, Hats, Caps, Scarfs, Neckties, Stockings, Shoes Made of Leather, Rubber or Fabric or of Combinations of Said Materials, and Socks, Ski Gloves and Mitts Made of Wool and Cotton, Ski Gloves and Mitts Made of Canvas with or without Leather Palm, Ski Belts, Ski Pins and Badges, Ski Caps and Head Bands, Ski Gaiters, Ski Boots and Slippers; and Play and Beach Suits.
Claims use since Jan. 1, 1939.

Ser. No. 418,607. HARRY STEINBERGER, doing business as Penn Jobbing Company, Pottsville, Pa. Filed Apr. 22, 1939.

silverbrook

For Men's and Boys' Hosiery, Underwear, Sweaters, Overalls, Work Shirts, and Gloves Made of Canvas, Leather, and Combinations Thereof.
Claims use since Dec. 19, 1938.

Ser. No. 419,089. ROWENA STYLIST, INC., New York, N. Y. Filed May 4, 1939.

Rowena

For Water Resisting Ensembles Consisting of Ladies' Coats, Hats, and Bags Sold as Sets, and for Ladies' Two Piece Pajamas and Two Piece Bathing Suits.
Claims use since Apr. 28, 1939.

Ser. No. 419,129. LOUIS SHIPMAN & BAKER CO., New York, N. Y. Filed May 5, 1939.

Porcelain

For Women's Coats.
Claims use since Jan. 1, 1939.

Ser. No. 419,208. HACK SHOE COMPANY, Detroit, Mich. Filed May 8, 1939.



Applicant disclaims all words and numerals apart from the mark.
For Shoes Made of Leather, Rubber, Fabric, or any Combination Thereof and Insoles Supplied Separately Therefor.
Claims use since Apr. 12, 1939.

Ser. No. 419,254. ESSLEY SHIRT COMPANY, INC., New York, N. Y. Filed May 10, 1939.

shirts of the stars

No claim is made to the word "Shirts" apart from the mark as shown in the drawing.
For Negligee Shirts for Men and Youths.
Claims use since May 5, 1939.

Ser. No. 419,360. E-Z MILLS, INC., New York, N. Y. Filed May 11, 1939.

OTIS

Applicant is the owner of registration Number 126,053, showing the mark "OTIS", effected under the 10-year proviso and renewed.

For Men's, Women's, and Children's Hosiery.

Claims use since Apr. 7, 1939.

Ser. No. 419,377. GREGORY & READ CO., Lynn, Mass. Filed May 13, 1939.

MAGIC-STEP

For Ladies' and Misses' Shoes and Slippers, Made of Leather, Canvas, Fabric, or Compositions or Combinations Thereof.

Claims use since May 1, 1939.

Ser. No. 419,409. JULIUS KAYSER & CO., New York, N. Y. Filed May 15, 1939.

MARVELFLEX

For Women's Undergarments, Slips, Girdles, Vests, Bloomers, Panties, Drawers, and Chemises; also Nightgowns and Pajamas.

Claims use since Apr. 26, 1939.

Ser. No. 419,496. BEST & CO., INC., New York, N. Y. Filed May 17, 1939.

"GLOBE-TROTTER"

For Shoes Made of Leather, Rubber, or Fabric, or a Combination of said Materials; Misses' Suits and Misses' Coats.

Claims use since May 2, 1939.

Ser. No. 419,497. BEST & CO. INC., New York, N. Y. Filed May 17, 1939.

WELKINS

For Shoes Made of Leather, Rubber, or Fabric, or a Combination of Said Materials.

Claims use since May 2, 1939.

Ser. No. 419,597. SHELBY MANUFACTURING COMPANY, Shelbyville, Ind. Filed May 19, 1939.

Gold Bond Frocks
SHELBY MFG. CO.

No claim is made to the word "Frocks" apart from the mark as shown.

For Ladies' Cotton Dresses.

Claims use since Mar. 1, 1939.

Ser. No. 419,695. ALEX LEE WALLAU INC., New York, N. Y. Filed May 22, 1939.



The drawing is lined for the colors blue and green. The words "Suisse" and "Made in Switzerland" are disclaimed apart from the mark.

For Ladies', Misses', and Children's Dresses, Coats, Suits, Sweaters, Bathing Suits, Bathrobes, Housecoats, Bloomers, Blouses, Outerskirts, Smocks, Belts for Outer Wear, Scarfs, Underwear, Pajamas, Gloves Made of Leather or Fabric, Stockings, Hats, and Shoes and Slippers Made of Leather, Fabric, and Combinations Thereof.

Claims use since May 11, 1939.

Ser. No. 419,751. ESSLEY SHIRT COMPANY, INC., New York, N. Y. Filed May 24, 1939.

ESSLEY

BLOUNT

Applicant is the owner of registration Number 310,196, registered February 13, 1934. Applicant disclaims the word "Blount" apart from the mark.

For Negligee and Dress Shirts for Men and Young Men.

Claims use since Apr. 21, 1939.

Ser. No. 419,752. ESSLEY SHIRT COMPANY, INC., New York. N. Y. Filed May 24, 1939.

ESSLEY

HOLDER

Applicant is the owner of registration Number 310,196, registered Feb. 13, 1934. Applicant disclaims the word "Holder" apart from the mark.

For Negligee and Dress Shirts for Men and Young Men.

Claims use since Apr. 21, 1939.

Ser. No. 419,753. ESSLEY SHIRT COMPANY, INC., New York, N. Y. Filed May 24, 1939.

ESSLEY

STRANG

Applicant is the owner of registration Number 310,196, registered Feb. 13, 1934. Applicant disclaims the word "Strang" apart from the mark.

For Negligee and Dress Shirts for Men and Young Men.

Claims use since May 4, 1939.

Ser. No. 419,803. WM. HAHN & CO., Washington, D. C. Filed May 25, 1939.

MAGIC TREAD

No claim is made to the word "Tread", apart from the mark.

For Shoes Made of Leather, Rubber, Fabric, and/or Combinations Thereof.

Claims use since Oct. 1, 1934.

Ser. No. 419,908. BROWN COMPANY, Portland, Maine, and Berlin, N. H. Filed May 27, 1939.

ONCO METAFLEX

For Innersoles for Shoes.

Claims use since Apr. 27, 1939.

Ser. No. 420,048. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 1, 1939.

CELAPERM

For Collars and Outer Shirts.

Claims use since May 29, 1939.

Ser. No. 420,049. CELANESE CORPORATION OF AMERICA, New York, N. Y. Filed June 1, 1939.

CELOK

For Collars and Outer Shirts.

Claims use since May 29, 1939.

Ser. No. 420,122. THE WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed June 2, 1939.

Belle-Sharmeer
brev

For Stockings.

Claims use since August, 1932.

Ser. No. 420,123. THE WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed June 2, 1939.

Belle-Sharmeer
classic

For Stockings.

Claims use since August, 1932.

Ser. No. 420,125. THE WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed June 2, 1939.

Belle-Sharmeer
modite

For Stockings.

Claims use since August, 1932.

Ser. No. 420,136. FILLMORE ROSEN, New York, N. Y. Filed June 3, 1939.

DURIZED
PROCESS

No claim is made to the word "Process" apart from the mark shown.

For Ladies' Hosiery.

Claims use since May 1, 1939.

Ser. No. 420,175. FRIENDS SERVICE INCORPORATED, Philadelphia, Pa. Filed June 5, 1939.

REDSTONE

For Sweaters.

Claims use since Mar. 15, 1939.

Ser. No. 420,230. R. H. MACY & CO., INC., New York, N. Y. Filed June 6, 1939.

HERALD

For Men's Top Coats, Overcoats, Two and Three Piece Suits and Sports Jackets.

Claims use since May 18, 1939.

Ser. No. 420,279. BENJAMIN GOLDWASSER, doing business as Goldwasser Maternity Dresses, New York, N. Y. Filed June 8, 1939.



For Maternity Skirts and Dresses.

Claims use since May 25, 1939.

Ser. No. 420,281. LIPMAN BROS., New York, N. Y. Filed June 8, 1939.



For Ladies' Dresses and Suits.

Claims use since May, 1936.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 419,233. MARROW MFG. CORP., New York, N. Y. Filed May 9, 1939.

"FLEURETTE"

For Hair Clips, Flower Clips, All Made of Material Other than Precious Metals.
Claims use since January, 1936.

Ser. No. 420,076. MONROE SCHUTZ, New York, N. Y. Filed June 1, 1939.

BRAID-TEX

Applicant disclaims the right to the exclusive use of the word "Braid".
For Pleatings, Trimmings, Bindings, Braids, Narrow Fabrics and Ruchings.
Claims use since January, 1926.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 417,261. CHENEY BROS., Manchester, Conn., and New York, N. Y. Filed Mar. 20, 1939.

PETIPOINT

For Brocaded Satin for Silk and Rayon for Coat Linings.
Claims use since Dec. 15, 1938.

Ser. No. 418,425. WORUMBO MANUFACTURING COMPANY, Lisbon Falls, Maine. Filed Apr. 18, 1939.

POLO ANDRO

For Woolen Piece Goods.
Claims use since Mar. 31, 1939.

Ser. No. 418,474. M. STANLEY BROWN, New York, N. Y. Filed Apr. 20, 1939.

Lister's "Mokkaskin"

The word "Lister's" is disclaimed apart from the mark.
For Textile Fabrics in the Piece Made of Wool, Cotton, Silk, Rayon and Mixtures Thereof.
Claims use since May 1, 1938.

Ser. No. 418,880. KENYA CORPORATION, New York, N. Y. Filed Apr. 29, 1939.

POLAR KOOL

No claim is made to the word "Kool" apart from the mark.
For Woven Alpaca and Rayon Fabrics.
Claims use since Oct. 18, 1938.

Ser. No. 419,234. NORTH AMERICAN RAYON CORPORATION, New York, N. Y. Filed May 9, 1939.



The words "North American Rayon" are disclaimed apart from the mark.
For Knitted, Netted, and Textile Piece Goods Composed Wholly or in Part of Yarn of Artificial Origin.
Claims use since Feb. 27, 1939.

Ser. No. 419,938. TOBIN, SPORN & GLASER, INC., New York, N. Y. Filed May 27, 1939.

DIADEM

For Cotton Cloth Piece Goods, Renaissance Lace, Cluny Lace, and Medallion Lace; Linen and Cotton Towels; Table Napkins and Table Covers; Linen, Cotton, Silk, Embroidery, Crocheted, and Teneriffe Doilies; Doily Centerpieces, Bed Spreads, Textile Piano Covers, Curtains, Drapes, Furniture Scarfs and Covers, Tidies, and Mantel Lambrequins; Pieces of Textile Fabric Material Embellished with Drawn Work; Embroidered, Crocheted, and Teneriffe Pillow Slips, Shams, Bolster Cases, Mats, and Shirtwaist Patterns; Bureau and Dresser Scarfs.
Claims use since Apr. 21, 1919.

Ser. No. 420,072. PACIFIC MILLS, Boston, Mass. Filed June 1, 1939.

PLATEAU WORSTEDS

No claim is made to the word "Worsted" apart from the mark.
For Worsted Piece Goods Made Entirely of Wool.
Claims use since May 11, 1939.

Ser. No. 420,096. FORSTMANN WOOLEN COMPANY, Passaic and Jersey City, N. J. Filed June 2, 1939.



No claim is made to the words "Hard Twist", "Virgin Wool", "Wrinkle Resistant", and "Pure Silk Decoration", apart from the mark.
For Woolen Piece Goods.
Claims use since July, 1938.

Ser. No. 420,097. FORSTMANN WOOLEN COMPANY, Passaic and Jersey City, N. J. Filed June 2, 1939.



No claim is made to the words "100% Virgin Wool", "Hard Twist", and "Wrinkle Resistant", apart from the mark as shown.
For Woolen Piece Goods.
Claims use since July, 1938.

Ser. No. 420,316. THE ESMOND MILLS, Esmond, R. I. Filed June 9, 1939.

ERMINE

For Blankets.
Claims use since June, 1938.

Ser. No. 420,359. COHN-HALL-MARX CO., New York, N. Y. Filed June 10, 1939.

CREPE CEZANO

Applicant disclaims the word "Crepe".
For Cotton, Rayon, Acetate, and/or Silk Piece Goods.
Claims use since June 15, 1938.

Ser. No. 420,368. MARSHALL FIELD & COMPANY, Chicago, Ill. Filed June 10, 1939.

KARAVERE

For Rugs.
Claims use since Jan. 13, 1939.

Ser. No. 420,536. LIPSCHULTZ BROS., St. Paul, Minn. Filed June 15, 1939.

"Roll-Do"

For Pastry Rolling Pin Jacket and Pastry Cloth.
Claims use since Oct. 3, 1938.

Ser. No. 420,640. NASHUA MANUFACTURING COMPANY, Boston, Mass. Filed June 17, 1939.

PURREY

For Blankets Made of Cotton Wool, or Synthetic Fibre, and Any Combination Thereof.
Claims use since June 5, 1939.

CLASS 43

Thread and Yarn

Ser. No. 420,120. TENNESSEE EASTMAN CORPORATION, Kingsport, Tenn. Filed June 2, 1939.

TECAFIL

For Rayon Yarn.
Claims use since Mar. 22, 1939.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 418,555. AMPLIVOX LIMITED, London, England. Filed Apr. 22, 1939.

AMPLIVOX

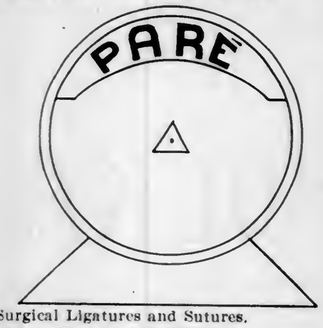
For Apparatus for the Aid of Deaf Persons.
Claims use since Jan. 1, 1935.

Ser. No. 419,408. LAWSON PRODUCTS, INC., Pawtucket, R. I. Filed May 15, 1939.

Marvelflex

For Men's, Abdominal Supporters or Belts, Men's Surgical Supporters, Knee Supporters and Wrist Supporters, Anklets, and Surgical Stockings.
Claims use since April, 1938.

Ser. No. 420,611. GUDEBROD BROTHERS SILK COMPANY, Philadelphia, Pa. Filed June 16, 1939.



For Surgical Ligatures and Sutures.
Claims use since May 9, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 420,285. NATIONAL GRAPE CORPORATION, Brocton, N. Y. Filed June 8, 1939.

C&E

For Grape Juice.
Claims use since March, 1930.

Ser. No. 420,684. MACK P. NIVEN, Dunedin, Fla. Filed June 19, 1939.

Mountain Mist

For Nonalcoholic Carbonated Beverage, Used as a Cocktail Mixer or as a Soft Drink.
Claims use since June 1, 1938.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 410,766. ATLANTIC COAST FISHERIES CORPORATION OF NEW YORK, New York, N. Y. Filed Sept. 20, 1938.



Applicant is the registered owner of United States registration No. 284,619, issued July 7, 1931.
For Fresh and Frozen Fish.
Claims use since Nov. 26, 1937.

Ser. No. 411,720. STANDARD FOODS CO., Chicago, Ill. Filed Oct. 17, 1938.

POLKA

For Canned Food Products—Namely, Soups of all Kinds; Mushrooms and Mushroom Products—Namely, Cream of Imported Mushrooms, and Mushroom Sauce; and Bigos (a Vegetable and Meat Product).
Claims use since Oct. 5, 1938.

Ser. No. 411,828. HELEN ENGELMAN, Edinburg, Tex. Filed Oct. 20, 1938.

WON-UP

Applicant is owner of registration No. 320,477 issued to J. C. Engelman, Jr., Jan. 1, 1935.
For Citrus Juices for Food and Food Drink Purposes.
Claims use since Apr. 23, 1935.

Ser. No. 412,022. CALBEAR CANNERIES CO., San Francisco, Calif. Filed Oct. 25, 1938.

Calbear Canneries COMPANY

TRU-TASTE
Fruits for Salad

No claim is made to the words "Fruits for Salad" or "Tru-Taste" apart from the mark.
For Canned Fruits.
Claims use since Oct. 10, 1938.

Ser. No. 412,161. SUNSET PRODUCE COMPANY, San Francisco, Calif. Filed Oct. 28, 1938.



No claim is made to the representation of the fruit or to the words "Fruit From Selected Orchards" apart from the mark.
For Fresh Deciduous Fruits—Namely, Apples and Pears.
Claims use since April, 1929.

Ser. No. 412,632. FULTON SMOKED FISH CO., Chicago, Ill. Filed Nov. 12, 1938.

Sturgeon's Bay

For Smoked Fish.
Claims use since June 1, 1928.

Ser. No. 413,754. BAKERS' SUPPLY & EQUIPMENT CO., St. Paul, Minn. Filed Dec. 8, 1938.

ACE TREATS

For Puffed Breakfast Cereals, as Rice and Wheat.
Claims use since June 1, 1938.

Ser. No. 413,970. ANABOLIC FOOD PRODUCTS, INC., Chicago, Ill. Filed Dec. 16, 1938.

CILOBANA

For Supplemental Food Products Containing Concentrated Dried Vegetables and/or Animal Substances Usually Sold in Capsule Form.
Claims use since Nov. 2, 1937.

Ser. No. 417,132. ANTHONY MULÉ, doing business as Anthony Mulé & Sons, Brooklyn, N. Y. Filed Mar. 16, 1939.



For Olive Oil.
Claims use since Aug. 10, 1938.

Ser. No. 418,079. LEROY F. VANDEGRIFT, Shawnee, Okla., Wichita Falls, Tex., and Wichita, Kans. Filed Apr. 10, 1939.



The word "Chick'en" is disclaimed apart from the mark.
For Chicken, Fried, Sliced, and Barbecued.
Claims use since Mar. 1, 1939.

Ser. No. 418,296. DUER SALES, INC., Chicago, Ill. Filed Apr. 15, 1939.



The drawing is lined for blue.
For Candy.
Claims use since Mar. 10, 1939.

Ser. No. 418,506. DAMIANO DI GIROLAMO, New York, N. Y. Filed Apr. 20, 1939.



For Olive Oil.
Claims use since Sept. 5, 1938.

Ser. No. 418,865. ALEC BESSO, doing business as American Food Products Co., New York, N. Y. Filed Apr. 29, 1939.



The word "American" is disclaimed apart from the mark. The portrait is that of applicant's daughter Mary Ellen Besso.
For Whole Milk Powder.
Claims use since December, 1938.

Ser. No. 418,913. BEN BAKER, doing business as Ben's Bar-B-Q, Vineland, N. J. Filed May 1, 1939.

BEN'S
BAR-B-Q

No claim is made to the word "Bar-B-Q" apart from the mark.
For Sauce for Use on Chili Con Carne, Meats, and Other Foods.
Claims use since Apr. 2, 1920.

Ser. No. 419,221. EUGENE L. FIELD, doing business as Field Candy Company, Parma, Ohio. Filed May 9, 1939.

MOON-HY

For Chocolate Candy Bar.
Claims use since May 2, 1939.

Ser. No. 419,320. WHITE HOUSE CANNERIES, INC., Peoria, Ill. Filed May 11, 1939.

CANDID

For Canned Fruits and Vegetables, Pumpkin, Apple Sauce, Sauer Kraut, Fruit Juices for Food Purposes, Spaghetti, Tomato Juice, Hominy, and Pork and Beans.
Claims use since Apr. 4, 1939.

Ser. No. 419,347. W. B. RODDENBERRY CO., Cairo, Ga. Filed May 12, 1939.

PEANUT PATCH

Applicant is the owner of trade-mark registrations No. 282,796, dated May 5, 1931, and No. 346,158, dated May 18, 1937. The word "Peanut" is disclaimed apart from the mark as shown.
For Peanut Butter.
Claims use since Apr. 7, 1939.

Ser. No. 419,451. SPECIAL FOODS, INC., Worthington, Ohio. Filed May 15, 1939.

TASTEX

For Preparation for Seasoning or Flavoring Soups, Gravies, and Other Foods, and also Used for Making Broth, and Sandwich Fillers.
Claims use since Apr. 28, 1939.

Ser. No. 419,535. AWFUL FRESH MACFARLANE, Berkeley, Calif. Filed May 16, 1939.



The word "Nuts" is disclaimed apart from the mark.
For Salted Nuts, Candy, and Chocolate Coated Nuts.
Claims use since Apr. 15, 1939.

Ser. No. 419,593. RALPH E. MYERS, doing business as Ralph E. Myers Co., Salinas, Calif. Filed May 19, 1939.



No claim is made to the words "California", "Vegetables", and "Products" apart from the mark.
For Fresh Vegetables.
Claims use since Mar. 15, 1939.

Ser. No. 419,759. W. J. HOWEY COMPANY, Howey-in-the-Hills, Fla. Filed May 24, 1939.

KANDY KID

For Fresh Citrus Fruits.
Claims use since Nov. 20, 1938.

Ser. No. 419,856. CLEUGH'S CHERRY RHUBARB RANCH, Norwalk and Baldwin Park, Calif. Filed May 26, 1939.

Nature's Tonic

For Fresh Rhubarb.
Claims use since Oct. 1, 1938.

Ser. No. 419,889. SOUTHERN CALIFORNIA FISH CORP., Terminal Island, Calif. Filed May 26, 1939.

PURR

For Animal Food—Namely, Canned Cat Food.
Claims use since May 12, 1939.

Ser. No. 420,116. SCHUTTER CANDY COMPANY, Chicago, Ill. Filed June 2, 1939.

TRADING POST

For Candy.
Claims use since May 19, 1939.

Ser. No. 420,194. SAMUEL L. VITALE, doing business as Vital Products Company, Detroit, Mich. Filed June 5, 1939.

Zippy

For Chocolate Flavored Malted Milk Drinks.
Claims use since July 29, 1938.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 418,869. J. A. DOUGHERTY'S SONS, INC., DISTILLERS, Philadelphia, Pa. Filed Apr. 29, 1939. Under 10-year proviso.

Dougherty's



For Whiskey.
Claims use since 1849.

Ser. No. 418,907. WEST SHORE WINE & LIQUOR COMPANY, INC., New York, N. Y. Filed Apr. 29, 1939.

Buckingham

Royal Vat

Applicant is the owner of registration No. 311,910, dated April 10, 1934, including the word "Buckingham", and effected under the 10-year proviso.
For Whiskey.
Claims use since 1911.

Ser. No. 419,943. JAMES B. BEAM DISTILLING CO., INCORPORATED, Clermont, Ky. Filed May 29, 1939.



The word "Bourbon" is disclaimed apart from the mark.
For Whiskey.
Claims use since Apr. 17, 1939.

Ser. No. 419,944. JAMES B. BEAM DISTILLING CO., INCORPORATED, Clermont, Ky. Filed May 29, 1939.



BONDED BEAM

The words "Traditional in Quality", "Bonded", and "Beam" are disclaimed apart from the mark.
For Whiskey.
Claims use since Apr. 14, 1939.

Ser. No. 420,421. MERCHANTS DISTILLING CORPORATION, Terre Haute, Ind. Filed June 12, 1939.

MERCHANTS
Monogram

For Whiskey.
Claims use since February, 1935.

Ser. No. 420,927. K. ARAKELIAN, INC., doing business as Madera Wineries and Distilleries, Madera, Calif. Filed June 26, 1939.

MISSION BELL

For Brandy.
Claims use since July 28, 1934.

Ser. No. 421,069. GEO. A. DICKEL DISTILLING CO., Wilmington, Del., and Lexington, Ky. Filed June 29, 1939.



The drawing is lined to represent a silver color.
For Whiskey, Gin, Rum, Brandy, and Alcoholic Cordials.
Claims use since May 16, 1938.

Ser. No. 421,070. GEO. A. DICKEL DISTILLING CO., Wilmington, Del., and Lexington, Ky. Filed June 29, 1939.

944

For Whiskey, Gin, Rum, Brandy, and Alcoholic Cordials. Claims use since May 16, 1938.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 416,633. DENTO-PAK CORPORATION, Boston, Mass. Filed Mar. 1, 1939.

DENTO-PAK

Applicant disclaims the word "Pak" apart from the mark shown.

For Container Made of Plastic Materials with a Tooth Brush and Tube of Tooth Paste.

Claims use since Feb. 17, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 8, 1939

369,858. FLUID COFFEE. QUIK-KUP COFFEE, INC., New York, N. Y.
Filed July 10, 1936. Serial No. 380,883. PUBLISHED MAY 30, 1939. Class 46.

369,859. LADIES', MISSES', AND CHILDREN'S UNDERWEAR, INCLUDING BLOOMERS, PANTIES, BRASSIÈRES, VESTS, UNDERSHIRTS, SLIPS, AND PETTICOATS, AND/OR ANY COMBINATIONS OF THE FOREGOING. ARTHUR ADELMAN, doing business as Continental Undergarment Co., Brooklyn, N. Y.
Filed August 15, 1936. Serial No. 382,197. PUBLISHED OCTOBER 20, 1936. Class 39.

369,860. DAIRY AND POULTRY FEED. PIGGLY WIGGLY CORPORATION, Cincinnati, Ohio.
Filed August 26, 1936. Serial No. 382,615. PUBLISHED NOVEMBER 15, 1938. Class 46.

369,861. GRINDING MACHINERY AND PARTS THEREOF, ORE BREAKING AND CRUSHING MACHINERY AND PARTS THEREOF, ETC. THE MASTER, WARDENS, SEARCHERS, ASSISTANTS AND COMMONALTY OF THE COMPANY OF CUTLERS IN HALLAMSHIRE IN THE COUNTY OF YORK, Sheffield, England.
Filed April 26, 1937. Serial No. 391,896. PUBLISHED MAY 31, 1938. Class 23.

369,862. CHILI SAUCE, CATSUP, FINGER PEPPERS, CIDER VINEGAR, RELISH CONSISTING OF GROUND PICKLES PREPARED IN A SYRUP MADE OF VINEGAR, SUGAR, AND SPICES, SANDWICH SPREAD, ETC. M. ROM & SONS COMPANY, INC., Pittsburgh, Pa.
Filed November 5, 1937. Serial No. 399,374. PUBLISHED MAY 30, 1939. Class 46.

369,863. LADIES' AND MISSES' HATS. HESS & RUBIN, INC., New York, N. Y.
Filed December 17, 1937. Serial No. 400,970. PUBLISHED NOVEMBER 1, 1938. Class 39.

369,864. MILK ALBUMEN, BUTTERMILK, MILK SUGAR FEED USED IN POULTRY MASHES AND DAIRY FEED. SUNSET FEED & GRAIN CO. INC., Buffalo, N. Y.
Filed December 24, 1937. Serial No. 401,228. PUBLISHED SEPTEMBER 6, 1938. Class 46.

369,865. CANNED VEGETABLES, FRUITS, SOUPS, AND CANNED STRAINED CEREALS FOR BABIES, CONVALESCENTS, AND SPECIAL DIETS. FREMONT CANNING COMPANY, doing business as Gerber Products Company, Fremont, Mich.
Filed January 15, 1938. Serial No. 401,930. PUBLISHED MAY 30, 1939. Class 46.

369,866. CLOTHING FOR MEN AND BOYS—NAMELY, SUITS, OVERCOATS, SPORT COATS, AND HATS. RAPHAEL WEILL & COMPANY, also doing business as The White House, San Francisco, Calif.
Filed January 17, 1938. Serial No. 402,039. PUBLISHED MAY 2, 1939. Class 39.

369,867. SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF LEATHER, FABRIC, AND RUBBER. THE EDUCATOR SHOE CORPORATION OF AMERICA, New York, N. Y.
Filed January 22, 1938. Serial No. 402,217. PUBLISHED MAY 16, 1939. Class 39.

369,868. PORCELAIN INSULATING MATERIAL FOR ELECTRICAL APPARATUS OF ALL TYPES. SABURO MORIYA, New York, N. Y.
Filed February 5, 1938. Serial No. 402,738. PUBLISHED MAY 30, 1939. Class 21.

369,869. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. I. MILLER & SONS, INC., Long Island City, N. Y.
Filed February 28, 1938. Serial No. 403,516. PUBLISHED MAY 2, 1939. Class 39.

369,870. CANNED AND FROZEN FISH. ALASKA PACIFIC SALMON COMPANY, Seattle, Wash.
Filed March 7, 1938. Serial No. 403,747. PUBLISHED MAY 30, 1939. Class 46.

369,871. CHILDREN'S, JUNIORS', MISSES', AND LADIES' APRONS, BATHING SUITS, BATHROBES, BEACH-ROBES, HOUSECOATS, ETC. HYMAN BROS., Philadelphia, Pa.
Filed March 9, 1938. Serial No. 403,872. PUBLISHED APRIL 25, 1939. Class 39.

369,872. GLOVES MADE OF LEATHER AND SHEEP SKIN WITH THE WOOL THEREON, AND PROCESSED TO LOOK LIKE FUR. SELLINGER GLOVE COMPANY, Sheboygan, Wis.
Filed March 16, 1938. Serial No. 404,138. PUBLISHED MAY 16, 1939. Class 39.

369,873. CEREAL SUGARS PRODUCED FROM CORN. AMERICAN MAIZE-PRODUCTS COMPANY, New York, N. Y.
Filed March 23, 1938. Serial No. 404,393. PUBLISHED MAY 30, 1939. Class 46.

369,874. HATS AND CAPS FOR MEN, WOMEN, AND CHILDREN; BONNETS, BERETS, TAM-O-SHANTERS, SUN VISORS, HAT BODIES, AND PARTS THEREOF—NAMELY, HAT AND CAP LININGS, SWEATBANDS, AND HAT FRAMES. J. HÜCKEL'S SÖHNE, Novy Jicin, Czechoslovakia.
Filed April 14, 1938. Serial No. 405,257. PUBLISHED APRIL 25, 1939. Class 39.

369,875. BAKERY PRODUCTS—NAMELY, ICE CREAM CONES. NATIONAL BISCUIT COMPANY, New York, N. Y.
Filed May 27, 1938. Serial No. 406,820. PUBLISHED MAY 16, 1939. Class 46.

369,876. MEN'S, WOMEN'S, AND CHILDREN'S SHOES MADE OF LEATHER, RUBBER, OR FABRIC OR COMBINATIONS THEREOF. HYMAN BASHKES, doing business as Triangle Shoe Co., New York, N. Y.
Filed May 31, 1938. Serial No. 406,902. PUBLISHED MAY 9, 1939. Class 39.

369,877. BENDING FIXTURE FOR GLASS FRAMES AND STAMPING DIES, MILLING FIXTURE FOR AUTOMOBILE TOW BAR YOKE, FLANGING CHUCKS FOR 30 AND 55 GALLON METAL BARREL HEADS, ALSO POLISHING CHUCKS FOR AUTOMOTIVE HARDWARE. ATLANTIC MANUFACTURING CO., Philadelphia, Pa.
Filed June 8, 1938. Serial No. 407,219. PUBLISHED MAY 30, 1939. Class 23.

369,878. MOLDED PULP PLATES. KEYES FIBRE COMPANY, Waterville, Maine.
Filed July 25, 1938. Serial No. 408,885. PUBLISHED MAY 30, 1939. Class 2.

369,879. HOSIERY, SWEATERS, WORK PANTS, BOYS' PANTS, BATHROBES, AND OVERALLS. INDEPENDENT WHOLESALE DRY GOODS ASSN. INC., New York, N. Y.
Filed August 4, 1938. Serial No. 409,237. PUBLISHED OCTOBER 11, 1938. Class 39.

369,880. LATEX BATHING CAPS. THE BARR RUBBER PRODUCTS COMPANY, Sandusky, Ohio.
Filed August 29, 1938. Serial No. 410,064. PUBLISHED MAY 16, 1939. Class 39.

369,881. SPORT AND SKI CLOTHING AND WEARING APPAREL FOR MEN, WOMEN, AND CHILDREN—NAMELY, COATS, JACKETS, HATS, AND CAPS. HIRSCH-WEIS MANUFACTURING COMPANY, Portland, Oreg.
Filed October 22, 1938. Serial No. 411,954. PUBLISHED MAY 2, 1939. Class 39.

369,882. PRETZELS, POTATO CHIPS, AND POPT CORN. FAMOUS FOODS, INC., Detroit, Mich.
Filed October 28, 1938. Serial No. 412,128. PUBLISHED MAY 30, 1939. Class 46.

369,883. FRESH FRUITS—NAMELY, FRESH GRAPES. MARTIN GILBERT, Reedley, Calif.
Filed October 28, 1938. Serial No. 412,133. PUBLISHED MAY 30, 1939. Class 46.

369,884. GIRLS' AND INFANTS' COATS, SUITS, DRESSES, PAJAMAS, PLAY SUITS. ROSENBLATT AND KAHN, New York, N. Y.
Filed October 29, 1938. Serial No. 412,199. PUBLISHED JANUARY 17, 1939. Class 39.

369,885. CONSERVES OF ALL KINDS. ESBJERG HERMETIKFABRIK A/S, Esbjerg, Denmark.
Filed November 1, 1938. Serial No. 412,253. PUBLISHED MAY 30, 1939. Class 46.

369,886. BRASSIÈRES, BANDEAUX, CORSETS, CORSELETS, PANTIES, PANTIE-GIRDLES, GIRDLES, AND GARTER BELTS. MAIDEN FORM BRASSIERE COMPANY, INC., New York, N. Y.
Filed December 1, 1938. Serial No. 413,348. PUBLISHED APRIL 25, 1939. Class 39.

369,887. MEN'S SHOES OF LEATHER, RUBBER, FABRIC, OR COMBINATIONS THEREOF. COMMONWEALTH SHOE AND LEATHER COMPANY, Whitman, Mass.
Filed December 2, 1938. Serial No. 413,391. PUBLISHED MAY 9, 1939. Class 39.

369,888. KNITTED, NETTED, AND WOVEN FABRICS IN THE PIECE, COMPRISING COTTON, WOOL, RAYON, AND SILK YARN, AND MIXTURES THEREOF. EICHMANN & HECHT, New York, N. Y.
Filed December 14, 1938. Serial No. 413,823. PUBLISHED MAY 30, 1939. Class 42.

369,889. CARBONATED, NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS FOR COMPOUNDING THE SAME. SEMINOLE FLAVOR COMPANY, Chattanooga, Tenn.
Filed December 15, 1938. Serial No. 413,882. PUBLISHED MAY 30, 1939. Class 45.

369,890. WOMEN'S, GIRLS', AND CHILDREN'S SHOES OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. WOHL SHOE COMPANY, St. Louis, Mo.
Filed December 15, 1938. Serial No. 413,887. PUBLISHED FEBRUARY 28, 1939. Class 39.

369,891. CENTRIFUGAL CREAM SEPARATORS. THE GALLOWAY COMPANY, INC., Waterloo, Iowa.
Filed December 21, 1938. Serial No. 414,065. PUBLISHED MAY 30, 1939. Class 23.

369,892. LEATHER BELTS FOR PERSONAL WEAR. ADOLF VOGEL, San Antonio, Tex.
Filed December 27, 1938. Serial No. 414,245. PUBLISHED MAY 16, 1939. Class 39.

369,893. CANNED SHRIMP Á LA CREOLE; CANNED SHRIMPBURGER, I. E., GROUND SHRIMP MEAT; CANNED CREOLE GUMBO; CANNED COURTBOUILLON; CANNED JAMBALAYA, I. E., A COMBINATION OF SHRIMP AND RICE COOKED TOGETHER WITH TOMATO GRAVY; AND CANNED CREOLE OYSTER SOUP. CREOLE FOOD CO., Gulfport, Miss.
Filed December 30, 1938. Serial No. 414,339. PUBLISHED MAY 30, 1939. Class 46.

369,894. ELECTRIC CHIME UNITS AND PARTS THEREOF. RCA MANUFACTURING COMPANY, INC., Camden, N. J.
Filed December 30, 1938. Serial No. 414,365. PUBLISHED MAY 30, 1939. Class 36.

369,895. PAJAMAS, MEN'S HATS, COATS, OUTER SHIRTS, UNDERWEAR AND UNDERSHIRTS, AND WOMEN'S DRESSES. LOVEMAN, JOSEPH & LOEB, Birmingham, Ala.
Filed January 3, 1939. Serial No. 414,455. PUBLISHED MAY 16, 1939. Class 39.

369,896. SHEETS AND PILLOW CASES. LOVEMAN, JOSEPH & LOEB, Birmingham, Ala.
Filed January 3, 1939. Serial No. 414,456. PUBLISHED MAY 30, 1939. Class 42.

369,897. PREPARATION USED IN MAKING ICE CREAM. MEYENBERG MILK PRODUCTS CO., Salinas, Calif.
Filed January 3, 1939. Serial No. 414,460. PUBLISHED MAY 30, 1939. Class 46.

369,898. MEN'S, WOMEN'S, AND CHILDREN'S SHOES OF LEATHER, FABRIC, RUBBER, AND CLOTH, AND COMBINATIONS OF THESE MATERIALS; SPATS, HEELS, AND INNER AND OUTER SOLES; UPPERS, TONGUES, TOE CAPS, HOSIERY, RUBBERS, AND OVERSHOES. KITTY KELLY SHOE CORPORATION, New York, N. Y.
Filed January 7, 1939. Serial No. 414,601. PUBLISHED MAY 9, 1939. Class 39.

369,899. LADIES' BELTS FOR EXTERNAL USE ON CLOTHING. CHAMPION BELT MANUFACTURING CO., INC., New York, N. Y.
Filed January 9, 1939. Serial No. 414,622. PUBLISHED MAY 16, 1939. Class 39.

369,900. SKATING SHOES, STOCKING SUSPENDERS, AND HOCKEY KNICKERS. C. C. M. INCORPORATED, Buffalo, N. Y.
Filed January 10, 1939. Serial No. 414,651. PUBLISHED MAY 23, 1939. Class 39.

369,901. INFANTS' WEAR—NAMELY, BANDS, BERETS, BIBS, BINDERS, BLOOMERS, BOBBY SUITS, BONNETS, BOOTEES, BUNTINGS, CAPES, ETC. BUTLER BROTHERS, Chicago, Ill.
Filed January 14, 1939. Serial No. 414,816. PUBLISHED MAY 2, 1939. Class 39.

369,902. HAT BRAID MADE OF TUBES SIMULATING STRAW, MANUFACTURED OF CELLULOSE FILM WITH A CORE OF RAMIE. ARMAND SCHWAB & CO., INC., New York, N. Y.
Filed January 19, 1939. Serial No. 414,979. PUBLISHED APRIL 25, 1939. Class 40.

369,903. HAT BRAID MADE OF TUBES SIMULATING STRAW, MANUFACTURED OF CELLULOSE FILM WITH A CORE OF RAMIE. ARMAND SCHWAB & CO., INC., New York, N. Y.
Filed January 19, 1939. Serial No. 414,980. PUBLISHED APRIL 18, 1939. Class 40.

369,904. CHILDREN'S SWEATERS, DRESSES, OUTER SHORTS, AND HATS. R. H. MACY & CO., INC., New York, N. Y.
Filed January 27, 1939. Serial No. 415,298. PUBLISHED APRIL 25, 1939. Class 39.

369,905. NECKTIES. STERN, MERRITT CO., INC., New York, N. Y.
Filed January 27, 1939. Serial No. 415,307. PUBLISHED MAY 9, 1939. Class 39.

369,906. NECKTIES. STERN, MERRITT CO., INC., New York, N. Y.
Filed January 27, 1939. Serial No. 415,310. PUBLISHED MAY 9, 1939. Class 39.

369,907. FOUNDATION GARMENTS—NAMELY, GIRDLES AND CORSELETS. B. A. VON HENSLER, New York, N. Y.
Filed January 28, 1939. Serial No. 415,365. PUBLISHED MAY 23, 1939. Class 39.

369,908. LADIES', MISSES', AND CHILDREN'S SHOES, OXFORDS, HOUSE-SLIPPERS, MULES, PUMPS, AND SANDALS MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF SAID MATERIALS. BACH SHOE COMPANY, St. Louis, Mo.
Filed January 30, 1939. Serial No. 415,370. PUBLISHED MAY 23, 1939. Class 39.

369,909. LADIES', MISSES', AND CHILDREN'S SHOES, OXFORDS, HOUSE-SLIPPERS, MULES, PUMPS, AND SANDALS MADE OF LEATHER, RUBBER, FABRIC, AND COMBINATIONS OF SAID MATERIALS. BACH SHOE COMPANY, St. Louis, Mo.
Filed January 30, 1939. Serial No. 415,371. PUBLISHED MAY 23, 1939. Class 39.

369,910. ART NEEDLEWORK PACKAGE OUTFITS CONTAINING ONE OR MORE OF THE FOLLOWING PRODUCTS — EMBROIDERY-WORK, KNITTING-WORK, ETC. BERNHARD ULMANN CO. INC., New York, N. Y.
Filed January 30, 1939. Serial No. 415,426. PUBLISHED MAY 9, 1939. Class 40.

369,911. LEATHER GLOVES. SPEARE GLOVE COMPANY, Gloversville, N. Y.
Filed January 30, 1939. Serial No. 415,419. PUBLISHED APRIL 25, 1939. Class 39.

369,912. RUBBER SOLES. A. G. WALTON & CO., INC., Chelsea, Mass.
Filed January 30, 1939. Serial No. 415,429. PUBLISHED MAY 23, 1939. Class 39.

369,913. MACHINERY MOUNTINGS OR SUPPORTS OF RUBBER AND METAL. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed February 2, 1939. Serial No. 415,508. PUBLISHED MAY 30, 1939. Class 23.

369,914. WOMEN'S SHOES OF LEATHER AND FABRIC AND COMBINATIONS THEREOF. GIMBEL BROTHERS, INC., New York, N. Y.
Filed February 7, 1939. Serial No. 415,713. PUBLISHED MAY 2, 1939. Class 39.

369,915. MEN'S AND BOYS' NECKTIES. FRANK & MEYER NECKWEAR COMPANY, St. Louis, Mo.
Filed February 8, 1939. Serial No. 415,770. PUBLISHED APRIL 25, 1939. Class 39.

369,916. FURNITURE AND FLOOR POLISH. LUCAS PAUL HART, La Mesa, Calif.
Filed February 8, 1939. Serial No. 415,776. PUBLISHED MAY 30, 1939. Class 16.

369,917. HATS FOR MEN AND BOYS. BYER-ROLNICK COMPANY, Dallas, Tex.
Filed February 9, 1939. Serial No. 415,831. PUBLISHED MAY 9, 1939. Class 39.

369,918. HAIR PINS. ARPIN PRODUCTS, INC., Dover, Del.
Filed February 11, 1939. Serial No. 415,932. PUBLISHED MAY 16, 1939. Class 40.

369,919. LADIES' HATS. MILLINERY MERCHANDISING EXECUTIVES ASSOCIATION, INC., New York, N. Y.
Filed February 11, 1939. Serial No. 415,956. PUBLISHED APRIL 25, 1939. Class 39.

369,920. NECKTIES. H. C. COHN & CO., Rochester, N. Y.
Filed February 15, 1939. Serial No. 416,045. PUBLISHED MAY 9, 1939. Class 39.

369,921. NON-ELECTRICAL HAIR CURLERS AND HAIR WAVERS, HAIR CLIPS, AND HAIR PINS. THE A. J. DONAHUE CORPORATION, Milford, Conn.
Filed February 15, 1939. Serial No. 416,049. PUBLISHED MAY 9, 1939. Class 40.

369,922. NECKTIES. GOLDBERG, SQUIRE, LESSER & COHEN, INC., New York, N. Y.
Filed February 15, 1939. Serial No. 416,063. PUBLISHED APRIL 25, 1939. Class 39.

369,923. LADIES' UNDERGARMENTS — NAMELY, SLIPS, PANTIES, NIGHTGOWNS, PAJAMAS, CHEMISES AND DANCE SETS IN THE FORM OF BRASSIÈRE AND PANTIES. KATE SMITH, New York, N. Y.
Filed February 15, 1939. Serial No. 416,075. PUBLISHED MAY 9, 1939. Class 39.

369,924. GLOVES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. THE SUPERB GLOVE COMPANY, Johnstown, N. Y.
Filed February 16, 1939. Serial No. 416,122. PUBLISHED MAY 9, 1939. Class 39.

369,925. READY-MIXED PAINT, PAINT ENAMEL, AND VARNISH. TRU TEST MARKETING & MERCHANDISING CORP., Chicago, Ill.
Filed February 16, 1939. Serial No. 416,124. PUBLISHED MAY 30, 1939. Class 16.

369,926. ELECTRICALLY OPERATED HOISTS AND PARTS THEREOF. THE MASTER ELECTRIC COMPANY, Dayton, Ohio.
Filed February 17, 1939. Serial No. 416,151. PUBLISHED MAY 30, 1939. Class 21.

369,927. LADIES' HATS AND DRESSES. SIGMUND STURM, New York, N. Y.
Filed February 17, 1939. Serial No. 416,164. PUBLISHED MAY 9, 1939. Class 39.

369,928. MATTRESSES. SUPERIOR FELT & BEDDING COMPANY, Chicago, Ill.
Filed February 17, 1939. Serial No. 416,165. PUBLISHED MAY 30, 1939. Class 32.

369,929. SYNTHETIC PORCELAIN CEMENT FOR FILLING (CALKING) THE OPEN SPACES AROUND BATHTUBS, WALL AND FLOOR TILE, ETC. AMERICAN HAIR & FELT COMPANY, Chicago, Ill.
Filed February 18, 1939. Serial No. 416,173. PUBLISHED MAY 30, 1939. Class 5.

369,930. MEN'S AND BOYS' FUR FELT HATS. CARADINE HAT COMPANY, St. Louis, Mo.
Filed February 23, 1939. Serial No. 416,312. PUBLISHED APRIL 25, 1939. Class 39.

369,931. LEATHER AND FABRIC GLOVES. M. MERLIER, INC., New York, N. Y.
Filed February 23, 1939. Serial No. 416,330. PUBLISHED APRIL 25, 1939. Class 39.

369,932. LEATHER AND FABRIC GLOVES. M. MERLIER, INC., New York, N. Y.
Filed February 23, 1939. Serial No. 416,331. PUBLISHED APRIL 25, 1939. Class 39.

369,933. ENGRAVING BLOCKS AND PARTS THEREOF. HAMMEL, RIGLANDER & CO., INC., New York, N. Y.
Filed February 24, 1939. Serial No. 416,375. PUBLISHED MAY 30, 1939. Class 23.

369,934. MEN'S AND BOYS' SUSPENDERS, BELTS INTENDED FOR PERSONAL WEAR, AND HOSE SUPPORTERS. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y.
Filed February 24, 1939. Serial No. 416,384. PUBLISHED MAY 9, 1939. Class 39.

369,935. LADIES' HATS. SALFAIR, INC., New York, N. Y.
Filed February 24, 1939. Serial No. 416,388. PUBLISHED APRIL 25, 1939. Class 39.

369,936. MEN'S AND BOYS' NECKTIES AND MUFFLERS. DRESS-WELL NECKWEAR CO., INC., New York, N. Y.
Filed February 25, 1939. Serial No. 416,407. PUBLISHED MAY 9, 1939. Class 39.

369,937. WOOD FRAME PACKING CASES AND SOLID FIBRE SHIPPING CONTAINERS. BIRD & SON, inc., East Walpole, Mass.
Filed February 27, 1939. Serial No. 416,450. PUBLISHED MAY 16, 1939. Class 2.

369,938. SOLES AND HEELS OF RUBBER, OR RUBBER AND FIBROUS MATERIAL. THE LIMA CORD SOLE AND HEEL COMPANY, Lima, Ohio.
Filed February 27, 1939. Serial No. 416,468. PUBLISHED MAY 23, 1939. Class 39.

369,939. FRESH CITRUS FRUITS AND FRESH VEGETABLES. HAROLD MOYES, doing business as Citrus Distributors, Los Angeles, Calif.
Filed February 27, 1939. Serial No. 416,472. PUBLISHED MAY 30, 1939. Class 46.

369,940. RAZOR BLADES. CONSOLIDATED RAZOR BLADE CO., INC., Jersey City, N. J.
Filed February 28, 1939. Serial No. 416,505. PUBLISHED MAY 30, 1939. Class 23.

369,941. RUBBER, CANVAS, AND LEATHER FOOTWEAR—NAMELY, SHOES, OVERSHOES, BOOTS, RUBBERS, SANDALS, SLIPPERS, AND GAITERS. GOODYEAR FOOTWEAR CORPORATION, Providence, R. I.
Filed February 28, 1939. Serial No. 416,509. PUBLISHED APRIL 25, 1939. Class 39.

369,942. SHOES MADE OF LEATHER AND FABRIC, AND COMBINATIONS THEREOF. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo.
Filed February 28, 1939. Serial No. 416,514. PUBLISHED MAY 9, 1939. Class 39.

369,943. OPHTHALMIC BLANKS AND LENSES TINTED TO REDUCE GLARE. CONTINENTAL OPTICAL COMPANY, INC., Indianapolis, Ind.
Filed March 1, 1939. Serial No. 416,547. PUBLISHED MAY 30, 1939. Class 26.

369,944. LADIES' AND GENTLEMEN'S BELTS FOR OUTER WEAR, GOLF GLOVES AND SPORT GLOVES MADE OF LEATHER, SPORT BELTS, SPORT COATS, SPORT SKIRTS, COATS, HATS, AND CAPS, FOR THE USE OF MEN, WOMEN, AND CHILDREN, LEGGINGS, SCARFS, AND ARM BANDS. HERMES, S. A., Paris, France.
Filed March 1, 1939. Serial No. 416,563. PUBLISHED MAY 23, 1939. Class 39.

369,945. COMPOSITION SOLES OF RUBBER COMPOUND AND CORK. PANTHER-PANCO RUBBER CO., INC., Chelsea, Mass.
Filed March 6, 1939. Serial No. 416,740. PUBLISHED MAY 2, 1939. Class 39.

369,946. PIPE WRENCHES. JOHN W. BAUMAN & SON, Sassamansville, Pa.
Filed March 8, 1939. Serial No. 416,791. PUBLISHED MAY 30, 1939. Class 23.

369,947. BLEND OF REFINED SUGAR, FINE COCOA, SKIM MILK, MALT EXTRACT, SALT, AND FLAVORING FOR USE AS AN INGREDIENT IN MAKING CHOCOLATE FLAVORED FOOD BEVERAGES. THE BORDEN COMPANY, New York, N. Y.
Filed March 8, 1939. Serial No. 416,792. PUBLISHED MAY 30, 1939. Class 46.

369,948. HAIR DRESSING PREPARATIONS—NAMELY, LIQUID BRILLIANTINE, AND CURL SETTING LIQUID. VI-JON LABORATORIES, INC., St. Louis, Mo.
Filed March 8, 1939. Serial No. 416,821. PUBLISHED MAY 23, 1939. Class 6.

369,949. BRASSIÈRES, BANDEAUX, CORSELETS, AND GIRDLES. FAY-MISS BRASSIERE CO. INC., New York, N. Y.
Filed March 9, 1939. Serial No. 416,846. PUBLISHED MAY 2, 1939. Class 39.

369,950. PAPER BOXES. OLD DOMINION BOX COMPANY, Lynchburg, Va.
Filed March 9, 1939. Serial No. 416,866. PUBLISHED MAY 30, 1939. Class 2.

369,951. CANNED VEGETABLES. THE WINORR CANNING COMPANY, Circleville, Ohio.
Filed March 9, 1939. Serial No. 416,885. PUBLISHED MAY 30, 1939. Class 46.

369,952. SHOES OF LEATHER, OF CLOTH, AND OF COMBINATIONS OF LEATHER AND CLOTH. PALIZZIO, INC., New York, N. Y.
Filed March 10, 1939. Serial No. 416,913. PUBLISHED MAY 23, 1939. Class 39.

369,953. PAPER BAGS. BENJ C. BETNER CO., Devon, Pa.
Filed March 2, 1939. Serial No. 416,598. PUBLISHED MAY 23, 1939. Class 2.

369,954. TOMATO PASTE. JACOB LEHRMAN, doing business as Sun Pride Co., Philadelphia and Harrisburg, Pa.
Filed March 7, 1939. Serial No. 416,768. PUBLISHED MAY 30, 1939. Class 46.

369,955. WOMEN'S, MISSES', AND CHILDREN'S HATS. ELIZABETH SCHOEN, New York, N. Y.
Filed March 10, 1939. Serial No. 416,923. PUBLISHED MAY 2, 1939. Class 39.

369,956. TOWELS, UNTREATED POLISHING CLOTHS, WIPING CLOTHS, AND WASH CLOTHS. CHARLES SCHWARTZ & CO., Chicago, Ill.
Filed March 11, 1939. Serial No. 416,969. PUBLISHED MAY 30, 1939. Class 42.

369,957. SHOES MADE OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. MARSHALL FIELD & COMPANY, Chicago, Ill.
Filed March 13, 1939. Serial No. 417,004. PUBLISHED MAY 9, 1939. Class 39.

369,958. SHOES MADE OF A COMBINATION OF LEATHER, RUBBER, AND FABRIC, OR LEATHER AND FABRIC ONLY, OR LEATHER ONLY. J. G. MENIHAN CORP., Rochester, N. Y.
Filed March 13, 1939. Serial No. 417,027. PUBLISHED MAY 23, 1939. Class 39.

369,959. FERROUS METAL CASTINGS AND FORGINGS. INTERNATIONAL HARVESTER COMPANY, Chicago, Ill.
Filed March 15, 1939. Serial No. 417,090. PUBLISHED MAY 30, 1939. Class 14.

369,960. COMPOSITION SOLES AND HEELS FOR SHOES. AVON SOLE COMPANY, Holbrook, Mass.
Filed March 16, 1939. Serial No. 417,112. PUBLISHED MAY 9, 1939. Class 39.

369,961. HANDKERCHIEFS. BROOKLYN HANDKERCHIEF CO., Brooklyn, N. Y.
Filed March 16, 1939. Serial No. 417,114. PUBLISHED MAY 23, 1939. Class 39.

369,962. HOODS FOR THE HEAD FOR PROTECTING COIFFURES, FACE MAKE-UP, AND CLOTHES WHEN DRESSING. VENUS CORPORATION, New York, N. Y.
Filed March 17, 1939. Serial No. 417,190. PUBLISHED MAY 23, 1939. Class 40.

369,963. WOOL FELT HAT BODIES AND HAT HOODS MADE OF WOOL, FOR MAKING HATS FOR THE USE OF WOMEN AND/OR CHILDREN. ARMAND SCHWAB & CO., INC., New York, N. Y.
Filed March 16, 1939. Serial No. 417,193. PUBLISHED MAY 23, 1939. Class 39.

369,964. PREPARATION FOR USE IN BAKING AND BAKERY PRODUCTS COMPRISING A DRY MIXTURE OF LECITHIN WITH CEREAL OR LEGUMINOUS FLOUR. AMERICAN LECITHIN COMPANY, Cleveland, Ohio.
Filed March 18, 1939. Serial No. 417,198. PUBLISHED MAY 30, 1939. Class 46.

369,965. CANNED SOUPS. SCHUCKL & CO., INC., doing business as Sunnyvale Packing Co., San Francisco, Calif.
Filed March 20, 1939. Serial No. 417,308. PUBLISHED MAY 30, 1939. Class 46.

369,966. BOOTS, SHOES, AND SLIPPERS OF LEATHER, FABRIC, OR COMBINATIONS THEREOF. GENERAL SHOE CORPORATION, Nashville, Tenn.
Filed March 21, 1939. Serial No. 417,335. PUBLISHED MAY 16, 1939. Class 39.

369,967. POPPED HOMINY COATED WITH CHEESE FLAVORING. THE BORDEN COMPANY, New York, N. Y.
Filed March 22, 1939. Serial No. 417,358. PUBLISHED MAY 30, 1939. Class 46.

369,968. MEN'S, WOMEN'S, BOYS', AND GIRLS' HATS, BERETS, AND CAPS; MEN'S AND BOYS' NEGLIGEE SHIRTS, SPORT SHIRTS, SWEAT SHIRTS; BANDANNAS, HANDKERCHIEFS, NECKERCHIEFS, NECKTIES, SCARFS, SPORT COATS, COAT SWEATERS, AND SLIPOVER SWEATERS. IRWIN OLENIK, New York, N. Y.
Filed March 22, 1939. Serial No. 417,386. PUBLISHED MAY 23, 1939. Class 39.

369,969. ADHESIVE UNMEDICATED FELT CORN PADS. THE SCHOLL MFG. CO., INC., New York, N. Y.
Filed March 22, 1939. Serial No. 417,391. PUBLISHED MAY 30, 1939. Class 44.

369,970. CORSETS. WOLFE & LANG, INC., New York, N. Y.
Filed March 22, 1939. Serial No. 417,392. PUBLISHED MAY 23, 1939. Class 39.

369,971. ATHLETIC SHOES OF RUBBER AND FABRIC. CONVERSE RUBBER COMPANY, Malden, Mass.
Filed March 23, 1939. Serial No. 417,401. PUBLISHED MAY 23, 1939. Class 39.

369,972. MEN'S AND WOMEN'S RAIN COATS AND RAIN CAPES. BURBROOKE MANUFACTURING CO., INC., New York, N. Y.
Filed March 25, 1939. Serial No. 417,485. PUBLISHED MAY 16, 1939. Class 39.

369,973. AVOCADOS. H. B. GRISWOLD, doing business as Griswold Ranch Company, La Habra, Calif.
Filed March 27, 1939. Serial No. 417,537. PUBLISHED MAY 30, 1939. Class 46.

369,974. MARBLES, COMBINATION CHECKERS AND CHINESE CHECKERS GAME, SEMI-GYRO METAL TOP, INDOOR BALLS, BASEBALL GLOVES, BOXING GLOVES, SKATES, TARGET SET, AND SLEEPING DOLL. JOE LOWE CORPORATION, New York, N. Y.
Filed March 27, 1939. Serial No. 417,544. PUBLISHED MAY 30, 1939. Class 22.

369,975. LADIES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS OF THESE MATERIALS. SEYMOUR TROY, INC., New York, N. Y.
Filed March 27, 1939. Serial No. 417,556. PUBLISHED MAY 16, 1939. Class 39.

369,976. SHOES MADE OF THE COMBINATION OF LEATHER AND FABRIC. THE SUPERIOR SHOE CO., INC., Chicago, Ill.
Filed March 27, 1939. Serial No. 417,558. PUBLISHED MAY 23, 1939. Class 39.

369,977. FRESH CITRUS FRUIT. SEABOARD LEMON ASSOCIATION, Oxnard, Calif.
Filed March 28, 1939. Serial No. 417,590. PUBLISHED MAY 30, 1939. Class 46.

369,978. ELECTRIC RANGES. GIBSON ELECTRIC REFRIGERATOR CORPORATION, Greenville, Mich.
Filed March 29, 1939. Serial No. 417,612. PUBLISHED MAY 30, 1939. Class 21.

369,979. CAMERA LENSES. UNIVERSAL CAMERA CORPORATION, New York, N. Y.
Filed March 29, 1939. Serial No. 417,631. PUBLISHED MAY 30, 1939. Class 26.

369,980. RUBBER COVERED ROLLS AND PULLEYS AND MOTOR MOUNTINGS MADE OF METAL WITH RUBBER VULCANIZED THERETO. HEWITT RUBBER CORPORATION, Buffalo, N. Y.
Filed March 31, 1939. Serial No. 417,690. PUBLISHED MAY 30, 1939. Class 23.

369,981. ELECTRIC FENCE CONTROLLERS. THE PRIME MANUFACTURING CO., Milwaukee, Wis.
Filed March 31, 1939. Serial No. 417,711. PUBLISHED MAY 30, 1939. Class 21.

369,982. PUMPING MACHINERY FOR ALTERING THE PRESSURE OF AND PROMOTING THE FLOW OF BOTH GASES AND LIQUIDS, AND PARTS THEREOF. ALLIS-CHALMERS MANUFACTURING COMPANY, West Allis and Milwaukee, Wis.
Filed April 1, 1939. Serial No. 417,739. PUBLISHED MAY 30, 1939. Class 23.

369,983. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGE SOLD AS A SOFT DRINK, AND SIRUP AND EXTRACT FOR MAKING THE SAME. JAMESON GEORGE BUSTON, doing business as The Sun Rise Bottling Company, Tazewell, Va.
Filed April 1, 1939. Serial No. 417,741. PUBLISHED MAY 30, 1939. Class 45.

369,984. MOVING PICTURE FILMS EMPLOYED TO DESIGNATE THE ORIGIN OF THE FILMS (AND NOT AS THE TITLE OF THE MOVING PICTURE FILMS). JAMES EMMETT CADE, New York, N. Y.
Filed April 1, 1939. Serial No. 417,742. PUBLISHED MAY 30, 1939. Class 26.

369,985. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS, AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. CHERRY BLOSSOMS MANUFACTURING COMPANY, St. Louis, Mo.
Filed April 1, 1939. Serial No. 417,745. PUBLISHED MAY 30, 1939. Class 45.

369,986. FABRIC DRIVING TAPES FOR THE SPINDLES OF SPINNING AND TWISTER FRAMES. ROGER W. CUTLER, Boston, Mass.
Filed April 1, 1939. Serial No. 417,749. PUBLISHED MAY 30, 1939. Class 23.

369,987. GAME PLAYED WITH NUMBERED FIGURES AND WOODEN BALLS ADAPTED TO BE PROPELLED BY A MALLET. WILMER CLYDE DRISCOLL, Roanoke, Va.
Filed April 1, 1939. Serial No. 417,750. PUBLISHED MAY 30, 1939. Class 22.

369,988. INTERCOMMUNICATING TELEPHONE EQUIPMENT COMPRISING LOUD SPEAKERS, AMPLIFIERS, SWITCHES, AND PARTS THEREOF. TELEMOTOR CORPORATION, New York, N. Y.
Filed April 1, 1939. Serial No. 417,787. PUBLISHED MAY 30, 1939. Class 21.

369,989. LAWN MOWERS. ALLIED STORES CORPORATION, Wilmington, Del., doing business as The Bon Marche, Seattle, Wash.
Filed April 3, 1939. Serial No. 417,792. PUBLISHED MAY 30, 1939. Class 23.

369,990. STEAM AND WATER SEPARATORS. THE SUPERHEATER COMPANY, Wilmington, Del., and New York, N. Y.
Filed April 4, 1939. Serial No. 417,852. PUBLISHED MAY 30, 1939. Class 23.

369,991. OPHTHALMIC MOUNTINGS AND LENSES AND PARTS THEREOF. WILLSON PRODUCTS, INC., Reading, Pa.
Filed April 4, 1939. Serial No. 417,856. PUBLISHED MAY 30, 1939. Class 26.

369,992. BUTTONS, OTHER THAN PRECIOUS METAL, FOR PERSONAL WEAR. ROCHESTER BUTTON COMPANY, Rochester, N. Y.
Filed April 5, 1939. Serial No. 417,891. PUBLISHED MAY 23, 1939. Class 40.

369,993. RADIO RECEIVING SETS AND PARTS THEREOF. WILLIAMS INC., Peoria, Ill.
Filed April 6, 1939. Serial No. 417,945. PUBLISHED MAY 30, 1939. Class 21.

369,994. VENETIAN BLINDS. WASHINGTON TENT & AWNING CO., INC., Washington, D. C.
Filed April 7, 1939. Serial No. 417,989. PUBLISHED MAY 30, 1939. Class 32.

369,995. METAL PRIMER. KARL A. MILAR, doing business as Milar & Company, Chicago, Ill.
Filed April 10, 1939. Serial No. 418,049. PUBLISHED MAY 30, 1939. Class 16.

369,996. TURPENTINE, WAX POLISH AND OIL POLISH FOR FURNITURE AND FLOORS. SALEM CHEMICAL & SUPPLY CO., Salem, Mass.
Filed April 10, 1939. Serial No. 418,064. PUBLISHED MAY 30, 1939. Class 16.

369,997. DRESSER AND BAG TOILET SETS, NOT MADE OF, NOR TRIMMED WITH, PRECIOUS METAL, COMPRISING BRUSHES, COMBS, ETC. CELLULOID CORPORATION, Newark, N. J.
Filed April 11, 1939. Serial No. 418,093. PUBLISHED MAY 23, 1939. Class 40.

369,998. BEVERAGES FERMENTED FROM MALT, HOPS, SUGAR, AND ADDED ORGANIC SUBSTANCES. GREENWAY'S INC., Syracuse, N. Y.
Filed April 12, 1939. Serial No. 418,147. PUBLISHED MAY 30, 1939. Class 48.

369,999. BEER. TANNHÄUSER BREWING COMPANY, Bethlehem, Pa.
Filed April 13, 1939. Serial No. 418,216. PUBLISHED MAY 30, 1939. Class 48.

370,000. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES, SOLD AS SOFT DRINKS, AND SIRUPS AND EXTRACTS FOR MAKING THE SAME. OSCAR JOHN WEISS, doing business as Pepsi-Cola Bottling Co., Quincy, Ill.
Filed April 13, 1939. Serial No. 418,221. PUBLISHED MAY 30, 1939. Class 45.

370,001. LAMPS FOR MEDICAL AND SURGICAL PURPOSES. H. E. JARVIS & CO., LIMITED, London, England.
Filed April 18, 1939. Serial No. 418,411. PUBLISHED MAY 30, 1939. Class 44.

370,002. GOLF BAG SUPPORT. AUGUST L. DELIN, Newark, N. J.
Filed April 22, 1939. Serial No. 418,568. PUBLISHED MAY 30, 1939. Class 22.

370,003. TIRE-CASINGS OF RUBBER AND SIMILAR COMPOUNDS. THE ARMSTRONG RUBBER COMPANY, INC., West Haven, Conn.
Filed June 24, 1939. Serial No. 420,887. Class 35.

370,004. AUTOMOBILE TIRES. THE ARMSTRONG RUBBER COMPANY, INC., West Haven, Conn.
Filed June 24, 1939. Serial No. 420,886. Class 35.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

370,005. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) MAX POLLACK & COMPANY, INC., New York, N. Y. Filed May 6, 1937. Serial No. 392,389.

MAX POLLACK & CO. INC.
SEAMSILK

For Binding Tape Such as Is Used by Dress Manufacturers.
Claims use since Mar. 29, 1937.

370,006. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) LEE HUNTER, JR., St. Louis, Mo. Filed Dec. 6, 1937. Serial No. 400,507.

WIKUREN

For Motor Generator Sets for Battery Charging Units.
Claims use since Apr. 13, 1938.

370,007. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) RILLING-ARNAO COMPANY, Minneapolis, Minn. Filed Dec. 23, 1937. Serial No. 401,194.

KOOLERWAVE

For Permanent Wave Apparatus, Curler Jackets, Exothermic Heating Elements for the Same, and Protector Clips.
Claims use since Dec. 4, 1937.

370,008. (CLASS 39. CLOTHING.) SALVADOR CUETARA, Boston, Mass. Filed Apr. 27, 1938. Serial No. 405,766.
For Shoes and Slippers Made of Leather, Rubber, or

BOSTON QUALITY SHOES

Fabric or of Various Combinations Thereof.
Claims use since Apr. 18, 1936.

370,009. (CLASS 26. MEASURING AND SCIENTIFIC APPLIANCES.) COORS PORCELAIN COMPANY, Golden, Colo. Filed July 2, 1938. Serial No. 408,157.

COORS
SILLIMANITE (MULLITE)

For Laboratory Porcelain Ware Consisting of Refractory Tubes and Vessels, Sampling Tubes, Pyrometer Tubes, Combustion Tubes, Crucibles, Combustion Boats, Evaporating Dishes, Casseroles, and Chemical Porcelain Ware.
Claims use since June 10, 1938.

370,010. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) CLUFF & PICKERING, LTD., New York, N. Y. Filed July 22, 1938. Serial No. 408,784.

CORBETT'S

For Whiskey.
Claims use since June 1, 1938.

370,011. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) CELESTIN, LTD., San Francisco, Calif. Filed Aug. 4, 1938. Serial No. 409,232.

PANAY

For Rum.
Claims use since June 19, 1938.

370,012. (CLASS 11. INKS AND INKING MATERIALS.) CODO MANUFACTURING CORPORATION, Chicago, Ill. Filed Aug. 18, 1938. Serial No. 409,724.

KANT STIK

For Carbon Paper.
Claims use since June 16, 1938.

370,013. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Nov. 14, 1938. Serial No. 412,694.

MADISON

For Billiard Tables.
Claims use since 1920.

370,014. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Nov. 14, 1938. Serial No. 412,695.

WILMINGTON

For Billiard Tables.
Claims use since 1923.

370,015. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) GEORGE P. GUNDLACH, doing business as Esmond, Gundlach and Company, Norwood, Ohio. Filed Nov. 30, 1938. Serial No. 413,308.

Golden Flake

For Bottled Buttermilk.
Claims use since Apr. 10, 1926.

370,016. (CLASS 21. ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES.) JUBILEE MANUFACTURING COMPANY, Omaha, Nebr. Filed Jan. 13, 1939. Serial No. 414,784.

HI-LO TONE

For Electricity Actuated Horns and Their Adjuncts Such as Are Utilized on Automobiles, Motor Boats, and Motor-Cycles.
Claims use since June 15, 1938.

370,017. (CLASS 10. FERTILIZERS.) WILLIAM E. MATHIAS, Sterling, Colo. Filed Feb. 16, 1939. Serial No. 416,105.

TREE HEALTH



For Commercial Tree Food.
Claims use since May 15, 1938.

370,018. (CLASS 39. CLOTHING.) GARFINKEL & RITTER, New York, N. Y. Filed Mar. 18, 1939. Serial No. 417,217.

SHELBY

For Women's Lingerie—Namely, Chemises, Panties, Night-Gowns, Pajamas, Slips, Brassières, Negligees, and Corsets.

Claims use since July 18, 1934.

370,019. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) FRANKLIN RESEARCH COMPANY, Philadelphia, Pa. Filed Apr. 7, 1939. Serial No. 417,961.

Brite Wax

For Wax for Use on Floors, Linoleum, Rubber, Cork, Tile, Cement, Furniture, and Walls.

Claims use since June 1, 1933.

370,020. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) KENYA CORPORATION, New York, N. Y. Filed Apr. 29, 1939. Serial No. 418,879.

TWILL-KOOL

For Woven Wool and Rayon Fabrics.

Claims use since Sept. 16, 1937.

370,021. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) JOHN SEXTON & CO., Chicago, Ill. Filed Apr. 29, 1939. Serial No. 418,892.

SEXTON

For Canned Fruits and Vegetables, Packed without Sugar and Salt for Restricted Diets.

Claims use since 1935.

TRADE-MARK REGISTRATIONS RENEWED

120,113. **MARY GARDEN.** CERTAIN NAMED TOILET PREPARATIONS. Registered January 8, 1918. HENRI RIGAUD, Paris, France, and New York, N. Y. Renewed January 8, 1938, to Etablissements Rigaud, Inc., New York, N. Y., a corporation of New York, assignee.

125,410. **ARISTOS BRONZEWELD.** CERTAIN NAMED WELDED BRONZE AND STEEL PRODUCTS. Registered May 20, 1919. COPPER CLAD STEEL CO., Rankin Borough, Pa. Renewed May 20, 1939, to Copperweld Steel Company, Glassport, Pa., a corporation of Pennsylvania, by change of name.

125,411. **ARISTOS BRASSWELD.** CERTAIN NAMED WELDED BRASS AND STEEL PRODUCTS. Registered May 20, 1919. COPPER CLAD STEEL CO., Rankin Borough, Pa. Renewed May 20, 1939, to Copperweld Steel Company, Glassport, Pa., a corporation of Pennsylvania, by change of name.

125,768. **CRECO.** DISINFECTANTS AND INSECTICIDES. Registered June 10, 1919. UNITED SANITARY PRODUCTS CO., INC., New York, N. Y. Renewed June 10, 1939, to Creco Company, Inc., Long Island City, N. Y., a corporation of New York, by change of name.

125,962. **BENJAMIN.** CERTAIN NAMED ELECTRICAL APPARATUS, MACHINES, AND SUPPLIES. Registered July 22, 1919. BENJAMIN ELECTRIC MANUFACTURING COMPANY, Chicago, Ill. Renewed July 22, 1939, to Benjamin Manufacturing Company, Des Plaines, Ill., a corporation of Illinois.

126,158. **MARVELLA.** WOOLEN PIECE GOODS. Registered July 29, 1919. FORSTMANN & HUFFMANN CO. Renewed July 29, 1939, to Forstmann Woolen Co., Passaic, N. J., a corporation of New Jersey, assignee by mesne assignments.

126,385. **EL VIGOR DEL CABELLO, ETC.** HAIR-TONIC. Registered August 26, 1919. J. C. AYER CO. Renewed August 26, 1939, to The Ayer Company, Inc., Lowell, Mass., a corporation of Massachusetts, assignee by mesne assignments.

126,386. **PECTORAL DE CEREZA, ETC.** A PREPARATION FOR TREATING CERTAIN NAMED AFFECTIONS OF THE LUNGS AND THROAT. Registered August 26, 1919. J. C. AYER CO. Renewed August 26, 1939, to The Ayer Company, Inc., Lowell, Mass., a corporation of Massachusetts, assignee by mesne assignments.

126,387. **ZARZAPARILLA, ETC.** A GENERAL TONIC AND PREPARATION FOR TREATING DISEASES ARISING FROM CERTAIN CONDITIONS OF THE SYSTEM. Registered August 26, 1919. J. C. AYER CO. Renewed August 26, 1939, to The Ayer Company, Inc., Lowell, Mass., a corporation of Massachusetts, assignee by mesne assignments.

126,519. **GREENWICH VILLAGE.** FABRICS OF SILK AND SILK MIXTURES. Registered September 16, 1919. CHENEY BROTHERS, South Manchester, Conn. Renewed September 16, 1939, to Cheney Brothers, Manchester, Conn., a corporation of Connecticut.

126,595. **MARVEL.** CERTAIN NAMED MACHINES AND TOOLS AND PARTS THEREOF. Registered September 23, 1919. THE DEMING COMPANY, Salem, Ohio, a corporation of Ohio. Renewed September 23, 1939.

126,605. **WB.** LEATHER. Registered September 23, 1919. PENN LEATHER COMPANY, Philadelphia, Pa., a corporation of Delaware. Renewed September 23, 1939.

126,621. **UNIVERSAL.** LEAD-PENCILS, CRAYON-CHALK, DRAWING AND WRITING CRAYONS, AND DRAWING-PENCILS. Registered September 30, 1919. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Renewed September 30, 1939, to American Lead Pencil Company, Hoboken, N. J., a corporation of New York.

126,622. **PNEUMATIC.** PENHOLDERS. Registered September 30, 1919. AMERICAN LEAD PENCIL COMPANY, New York, N. Y. Renewed September 30, 1939, to American Lead Pencil Company, Hoboken, N. J., a corporation of New York.

126,671. **BUTTER-CUP.** FRESH CITRUS FRUITS—NAMELY, ORANGES AND LEMONS. Registered September 30, 1919. EAST WHITTIER CITRUS ASS'N, East Whittier, Calif. Renewed September 30, 1939, to East Whittier Citrus Association, Whittier, Calif., a corporation of California.

126,672. **PIC-NIC.** FRESH CITRUS FRUITS—NAMELY, ORANGES AND LEMONS. Registered September 30, 1919. EAST WHITTIER CITRUS ASS'N, East Whittier, Calif. Renewed September 30, 1939, to East Whittier Citrus Association, Whittier, Calif., a corporation of California.

126,676. **A. S. A.** ACETYLSALICYLIC-ACID PREPARATIONS. Registered September 30, 1919. THE ELI LILLY AND COMPANY. Renewed September 30, 1939, to Eli Lilly and Company, Indianapolis, Ind., a corporation of Indiana, by change of name.

127,361. **DOCTOR BRAND.** EGGS. Registered November 11, 1919. COLUMBIA CHEESE COMPANY, Newark, N. J., a corporation of New Jersey. Renewed November 11, 1939.

127,391. **FEDERALLOY.** SNAP-FASTENERS AND PLACKET-FASTENERS. Registered November 11, 1919. FEDERAL SNAP FASTENER CORPORATION, New York, N. Y. Renewed November 11, 1939, to Waldes-Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York, assignee by mesne assignments.

127,604. **TOM SAWYER.** FRESH CITRUS FRUITS—NAMELY, LEMONS. Registered November 18, 1919. EAST WHITTIER CITRUS ASS'N, East Whittier, Calif. Renewed November 18, 1939, to East Whittier Citrus Association, Whittier, Calif., a corporation of California.

127,797. **EVENTUALLY.** BREAD. Registered December 2, 1919. WASHBURN-CROSBY CO. Renewed December 2, 1939, to General Mills, Inc., Minneapolis, Minn., a corporation of Delaware, assignee.

127,858. **NORWESCO.** CERTAIN NAMED CARBON-REMOVING, FIRE-EXTINGUISHING, ANTILEAK AND ANTIFREEZING COMPOUNDS AND SOLDERING-PASTE. Registered December 9, 1919. THE NORTHWESTERN CHEMICAL CO. Renewed December 9, 1939, to Atlas Chemical Company, Marietta, Ohio, a corporation of Ohio, assignee.

127,920. **DIVINE ROD.** FISHING-RODS. Registered December 16, 1919. FRED D. DIVINE COMPANY, Utica, N. Y., a corporation of New York. Renewed December 16, 1939.

127,975. **A CHEMIST, ETC.** CERTAIN NAMED PAINTS, VARNISH, PRUSSIAN BLUE IN OIL, FURNITURE-POLISH, AND PREPARED SHELLAC. Registered December 16, 1919. THE NORTHWESTERN CHEMICAL CO. Renewed December 16, 1939, to Atlas Chemical Company, Marietta, Ohio, a corporation of Ohio, assignee.

128,052. **TOM SAWYER.** CERTAIN NAMED BOYS' AND CHILDREN'S CLOTHING. Registered December 23, 1919. ELDER MANUFACTURING COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed December 23, 1939.

128,062. **SCIENTIFIC.** SNAP-FASTENERS AND PLACKET-FASTENERS. Registered December 23, 1919. FEDERAL SNAP FASTENER CORPORATION, New York, N. Y. Renewed December 23, 1939, to Waldes Koh-I-Noor, Inc., Long Island City, N. Y., a corporation of New York, assignee by mesne assignments.

128,069. **A SHIELD, ETC.** RUBBER-TIRE CASINGS. Registered December 23, 1919. THE GENERAL TIRE AND RUBBER COMPANY, Akron, Ohio, a corporation of Ohio. Renewed December 23, 1939.

128,072. **GLEN-TEX.** VEILINGS, NETTINGS, CHIFFONS, AND GEORGETTES AND LACES. Registered December 23, 1919. GLENSDER TEXTILE CO., New York, N. Y., a firm. Renewed December 23, 1939.

128,094. **SENSIBLE.** SMOKING-TOBACCO. Registered December 23, 1919. LARUS & BROTHER COMPANY, Richmond, Va., a corporation of Virginia. Renewed December 23, 1939.

128,095. **EDGEWORTH.** SMOKING-TOBACCO. Registered December 23, 1919. LARUS & BROTHER COMPANY, Richmond, Va., a corporation of Virginia. Renewed December 23, 1939.

128,132. **SIAM CROISÉ.** COTTON DRILLS. Registered December 23, 1919. BOOTT MILLS, Lowell, Mass., a corporation of Massachusetts. Renewed December 23, 1939.

128,157. **RELU.** CIGARETTES. Registered December 23, 1919. REED TOBACCO COMPANY. Renewed December 23, 1939, to Larus & Brother Company, doing business as Reed Tobacco Company, Richmond, Va., a corporation of Virginia, assignee.

128,229. **PAREX.** FRESH CITRUS FRUITS—NAMELY, LEMONS, ORANGES. Registered December 30, 1919. EAST WHITTIER CITRUS ASS'N, East Whittier, Calif. Renewed December 30, 1939, to East Whittier Citrus Association, Whittier, Calif., a corporation of California.

128,245. **PIN MONEY.** CERTAIN NAMED FOODS. Registered December 30, 1919. MRS. E. G. KIDD, INC. Renewed December 30, 1939, to Pin Money Brands, Inc., Richmond, Va., a corporation of Virginia, assignee.

128,250. **A CHEMIST, ETC.** CERTAIN NAMED ABRASIVE, DETERGENT, AND POLISHING MATERIALS. Registered December 30, 1919. THE NORTHWESTERN CHEMICAL CO. Renewed December 30, 1939, to Atlas Chemical Company, Marietta, Ohio, a corporation of Ohio, assignee.

128,256. **RAWLEIGH'S.** CERTAIN NAMED FOODS. Registered December 30, 1919. THE W. T. RAWLEIGH COMPANY, Freeport, Ill., a corporation of Illinois. Renewed December 30, 1939.

128,411. **AN INDIAN, ETC.** A PHARMACEUTICAL PREPARATION ENTITLED BLOOD-TEA. Registered January 6, 1920. ROBERT KANE, Pittsburgh, Pa. Renewed January 6, 1940.

128,415. **SAN GIORGIO.** MACARONI. Registered January 6, 1920. KEYSTONE MACARONI COMPANY. Renewed January 6, 1940, to Keystone Macaroni Manufacturing Company, Lebanon, Pa., a corporation of Pennsylvania, assignee.

128,473. **NORCROSS.** HAND GARDEN IMPLEMENTS—NAMELY, CULTIVATORS AND WEEDERS. Registered January 6, 1920. C. S. NORCROSS AND SONS, Bushnell, Ill., a firm. Renewed January 6, 1940.

128,495. **RAWLEIGH'S.** SEWING-MACHINE OIL. Registered January 6, 1920. THE W. T. RAWLEIGH COMPANY, Freeport, Ill., a corporation of Illinois. Renewed January 6, 1940.

128,496. **RAWLEIGH'S.** CERTAIN NAMED ABRASIVE, DETERGENT, AND POLISHING MATERIALS. Registered January 6, 1920. THE W. T. RAWLEIGH COMPANY, Freeport, Ill., a corporation of Illinois. Renewed January 6, 1940.

128,510. **ELSANE.** CERTAIN NAMED PAPER AND STATIONERY. Registered January 6, 1920. LOUIS SAINBERG. Renewed January 6, 1940, to Sainberg & Company, Inc., New York, N. Y., a corporation of New York, assignee.

128,567. **INDEPENDENT.** FRESH APPLES. Registered January 6, 1920. WASHINGTON FRUIT & PRODUCE CO., Yakima, Wash., a corporation of Washington. Renewed January 6, 1940.

LABELS

REGISTERED AUGUST 8, 1939

53,340.—*Title:* KLERZ-FOG GLASS CLEANER. For a Glass Cleaner. HARRY B. COWAN, Los Angeles, Calif. Published April 21, 1939.

53,341.—*Title:* DAINTY NOODLE SOUP MIX. For Noodle Soup Mix. DAINTY FOODS MANUFACTURERS, INC., Chicago, Ill. Published June 1, 1939.

53,342.—*Title:* MAYFAIR. For Beer. EASTERN BREWING CORP., Waterbury, Conn. Published June 23, 1939.

53,343.—*Title:* MAYFAIR. For Ale. EASTERN BREWING CORP., Waterbury, Conn. Published June 23, 1939.

53,344.—*Title:* TRIANGLE. For Ale. EASTERN BREWING CORP., Waterbury, Conn. Published June 23, 1939.

53,345.—*Title:* TRIANGLE. For Beer. EASTERN BREWING CORP., Waterbury, Conn. Published June 23, 1939.

53,346.—*Title:* YANKEE FARMER. For Blended Whiskey. EDDINGTON DISTILLING CO., Schaefferstown and Heidelberg Township, Lebanon County, Pa. Published June 15, 1939.

53,347.—*Title:* NOXO. For Hand Soap. TRACY ARNOLD FERGUSON, Hannibal, Mo. Published March 3, 1939.

53,348.—*Title:* BISQUICK. For Biscuit Flour. GENERAL MILLS, INC., Minneapolis, Minn. Published June 23, 1939.

53,349.—*Title:* SLIP-ON. For Hair Nets. IMPROVED HAIR NET CO., New York, N. Y. Published June 1, 1939.

53,350.—*Title:* REINFORCED. For Hair Nets. IMPROVED HAIR NET CO., New York, N. Y. Published July 1, 1939.

53,351.—*Title:* REEL SNOW. For Artificial Snow. JOHN T. JACKSON, Louisville, Ohio. Published June 6, 1939.

53,352.—*Title:* MACKWIN GARDEN DUST. For a Garden Dust. THE MACKWIN COMPANY, Winona, Minn. Published April 21, 1939.

53,353.—*Title:* MARKWELL 5000 RX STAPLES. For Staples. MARKWELL MFG. CO., INC., New York, N. Y. Published June 7, 1939.

53,354.—*Title:* SPECIAL MORNING MILK. For Evaporated Milk. MORNING MILK COMPANY, Salt Lake City, Utah. Published January 15, 1939.

53,355.—*Title:* PIONEER BREAD. For Bread. N. MOSS, doing business as Pioneer Bakery, St. Cloud, Minn. Published May 1, 1939.

53,356.—*Title:* O-CEDAR SELF-POLISHING WAX. NO RUBBING, RICH CARNAUBA BASE. For Self-Polishing Wax for All Floors. O-CEDAR CORP'N., Chicago, Ill. Published May 15, 1939.

53,357.—*Title:* WOMAN'S CLUB. For Molasses. PENICK & FORD, LTD. INCORPORATED, New York, N. Y. Published July 10, 1939.

53,358.—*Title:* GEORGIA MAID. For Syrup. RODDENBERY BROTHERS, Cairo, Ga. Published June 5, 1939.

53,359.—*Title:* WHIRL-I-GIG! For a Game. LOUIS RUBIN, doing business as New York Toy and Game Manufacturing Co., New York, N. Y. Published June 7, 1939.

53,360.—*Title:* TRY-IT. For Vitamin Mineral Supplement for Dogs and Cats. F. M. SHELDON, doing business as Super-Digester Products Co., Pasadena, Calif. Published July 5, 1939.

53,361.—*Title:* KING CHARLES. For Coffee. SIMPSON COFFEE, INC., Greenville, S. C. Published June 27, 1939.

53,362.—*Title:* NAVY BEST BY TEST. For Handkerchiefs. SOUTHERN HANDKERCHIEF MFG. CO., Greenville, S. C. Published June 30, 1939.

53,363.—*Title:* "BLACK LEAF" WORM PELLETS. For a Scientifically Prepared Dry Compound of Nicotine That Is Both Tasteless and Odorless for Control of Poultry Roundworm (Ascaridia Lineata). TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION (INCORPORATED), Louisville, Ky. Published February 27, 1939.

53,364.—*Title:* "NICO-FUME" TOBACCO POWDER PRESSURE-FUMIGATOR FOR FUMIGATING GREENHOUSES. For Tobacco Powder Pressure-Fumigators for Fumigating Greenhouses. TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION (INCORPORATED), Louisville, Ky. Published June 29, 1939.

53,365.—*Title:* "BLACK LEAF 40" NICOTINE SULPHATE. For Nicotine Sulphate. TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION (INCORPORATED), Louisville, Ky. Published June 12, 1939.

53,366.—*Title:* TYEE DEHYDRATED OYSTER MEAT. For Dehydrated Oyster Meat. TYEE OYSTER COMPANY, Gig Harbor, Wash. Published April 20, 1939.

53,367.—*Title:* QUA-LAX. For a Medicine for Internal Usage. UNITED PHARMACEUTICALS, INCORPORATED, Louisville, Ky. Published June 25, 1938.

53,368.—*Title:* WAHL'S TRIPLEMINT CHEWING GUM. For Chewing Gum. H. T. WAHL, Brunswick, Mo. Published July 15, 1939.

53,369.—*Title:* WALKER'S AUSTEX MEXICAN STYLE BEANS WITH CHILI GRAVY. For Mexican Style Beans with Chili Gravy. WALKER'S AUSTEX CHILI COMPANY, Austin, Tex. Published June 22, 1939.

53,370.—*Title:* ABSORBINE. For Veterinary Liniment. W. F. YOUNG, INC., Springfield, Mass. Published June 1, 1939.

53,371.—*Title:* ABSORBINE. For Veterinary Liniment. W. F. YOUNG, INC., Springfield, Mass. Published June 1, 1939.

PRINTS

REGISTERED AUGUST 8, 1939

17,527.—*Title:* GRAND FOR MY YOUNGSTERS—BECAUSE IT'S WHOLE WHEAT! For Cereal Food. GENERAL MILLS, INC., Minneapolis, Minn. Published July 5, 1939.

17,528.—*Title:* ITS ALWAYS LEATHER WEATHER. For Leather. A. C. LAWRENCE LEATHER COMPANY, Peabody, Mass. Published June 30, 1939.

17,529.—*Title:* HOW MUCH SUN DOES THE BABY REALLY GET? For Oleum Percomorphum. MEAD JOHNSON & COMPANY, Evansville, Ind. Published January 30, 1939.

17,530.—*Title:* PARKE-DAVIS MILK OF MAGNESIA. For Milk of Magnesia. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 15, 1939.

17,531.—*Title:* PARKE-DAVIS NEKO. For Germicidal Soap. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 15, 1939.

17,532.—*Title:* TAKE A TIP. For Wine. JOSEPH PERSONENI, New York, N. Y. Published April 27, 1939.

REISSUES

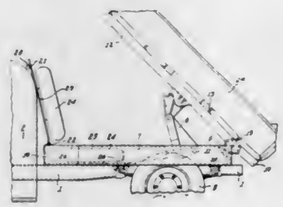
AUGUST 8, 1939

21,171
TIRE AND TOOL CARRYING COMPARTMENT IN TRUCKS

Fred Biszantz, Galion, Ohio, assignor to The Galion Metallic Vault Company, Galion, Ohio, a corporation of Ohio

Original No. 2,155,253, dated April 18, 1939, Serial No. 199,213, March 31, 1938. Application for reissue May 15, 1939, Serial No. 273,759

15 Claims. (Cl. 298—1)



1. In combination, a truck frame, an intermediate frame, a body mounted on said intermediate frame, means formed by the intermediate frame to constitute a tire-carrying compartment accessible from the top of said intermediate frame when said body is moved therefrom, a cover for said compartment adapted to support a tire thereon and in said compartment, and means for pivoting said cover on top of said intermediate frame.

21,172
CONTINUOUS CONVEYER

Albert F. White, Toronto, Ontario, Canada

Original No. 2,138,671, dated November 29, 1938, Serial No. 203,492, April 22, 1938. Application for reissue May 24, 1939, Serial No. 275,550

14 Claims. (Cl. 198—168)



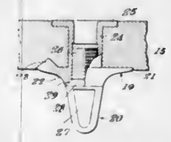
1. A continuous flow elevator comprising a casing including a substantially entirely enclosed rising leg having an inlet and an outlet above the inlet, and a conveyer element comprising an endless chain mounted to move longitudinally of the casing, a plurality of conveyer flights each closely confined on all sides by the rising leg and guided thereby, and hangers rigidly secured to the flights and pivotally connected to the chain, each of said flights hanging free to swing relative to said chain while passing through said rising leg while each is confined and guided thereby as aforesaid.

21,173
SPIKE FOR GOLF SHOES

Clarence W. Fuller, Yonkers, N. Y., assignor to Shu-Life Spike Corporation, a corporation of New York

Original No. 2,053,906, dated September 8, 1936, Serial No. 8,828, March 1, 1935. Application for reissue May 31, 1938, Serial No. 211,084

3 Claims. (Cl. 36—59)



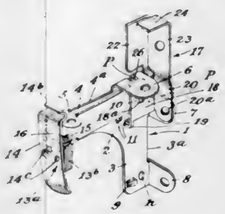
1. A spike for shoes comprising a fixed portion, and a replaceable portion; a flange integral with the fixed portion for engagement against the outer surface of the shoe sole, a depressed seat in the upper face of the flange, integral anti-rotational means on the under surface of the flange for engagement with the shoe sole, said fixed portion having a threaded bore communicating with the depressed seat, said replaceable portion having a screw shank for removable engagement with the threaded bore, and having a flange for interfitting engagement with the depressed seat whereby when both portions are assembled the top surfaces of two flanges will be flush.

21,174
MOUNTING FOR VENETIAN BLINDS

Hans K. Lorentzen, Montclair, N. J., assignor to Lorentzen Hardware Manufacturing Corp., New York, N. Y., a corporation of New York

Original No. 2,083,334, dated June 8, 1937, Serial No. 68,809, March 14, 1936. Application for reissue June 7, 1939, Serial No. 277,931

16 Claims. (Cl. 156—17)



1. In a bracket for mounting the head-bar of a Venetian blind, a one-piece sheet metal stamping which is turnable for right-hand or left-hand

mounting, said stamping comprising: a planar body having two outside edges which are of equal length and perpendicular to each other, and four wings positioned respectively adjacent to the four ends of said two perpendicular edges, all of the wings extending perpendicular to the body on the same side thereof, and the entire stamping being operatively symmetrical about a line bisecting the angle formed by said two outside edges whereby the stamping may be mounted either right-hand or left-hand; and head-bar retaining means carried by said planar body and shiftable into operative position to retain the head-bar whether the bracket be mounted right-hand or left-hand.

PLANT PATENTS

GRANTED AUGUST 8, 1939

Owing to the fact that almost all of the illustrations of the plant patents are in colors, it is not practicable to print a cut of the drawing.

336
POINSETTIA
Paul Ecke, Encinitas, Calif.
Application September 13, 1938, Serial No. 229,760
1 Claim. (Cl. 47—60)

A new and distinct variety of poinsettia, characterized by the brightness of coloring of foliage and flowers and the variegated color and mottled appearance of the leaves, substantially as shown and described.

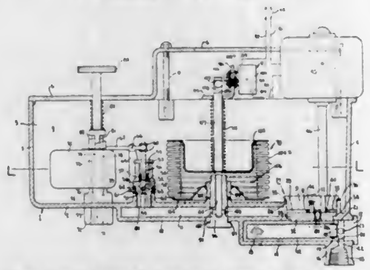
337
ROSE PLANT
Charles Mallerin, Varces, France, assignor to The Conard-Pyle Company, West Grove, Pa.
Application November 16, 1938, Serial No. 240,825
1 Claim. (Cl. 47—61)

A new and distinct variety of Hybrid Tea rose, characterized as to novelty by its extraordinary vigor, the leathery and deep green foliage, the urnshape and distinctive coloring of its bud and flower, substantially as shown and described.

PATENTS

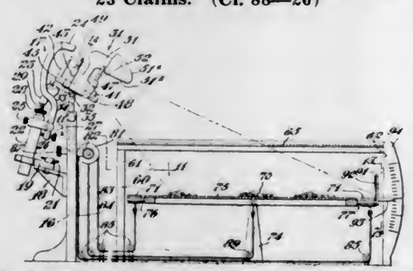
GRANTED AUGUST 8, 1939

2,168,307
CONTROL DEVICE
Albert G. Hann and Philip S. Russel, Detroit, Mich., assignors to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application August 31, 1936, Serial No. 98,718
13 Claims. (Cl. 103—25)



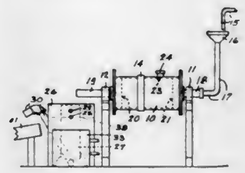
1. In a liquid level control device, a casing having a constant level chamber having an inlet and an outlet for liquid, a pump in said casing for delivering liquid into said chamber, control means for said pump, duct means communicatively connecting said pump and said inlet, a float actuated valve controlling said inlet to maintain the level of the liquid in said chamber at a desired substantially constant level, means including a bellows to provide an expansible-contractible liquid storage chamber in said constant level chamber in open communication with said duct means, said bellows having a movable wall against which the liquid pressure acts to expand said bellows thereby to increase the capacity of said chamber, and a spring acting to compress said bellows to maintain said desired liquid pressure on and to discharge the increased capacity to said inlet, said bellows being expanded by liquid upon operation of said pump so as to increase the volumetric capacity of said chamber and acting upon predetermined expansion to actuate said control means to stop said pump.

2,168,308
TESTING PERCEPTION OF SPACE
Adelbert Ames, Jr., Hanover, N. H., assignor to Trustees of Dartmouth College, Hanover, N. H., a corporation of New Hampshire
Application September 24, 1935, Serial No. 41,890
23 Claims. (Cl. 88—20)



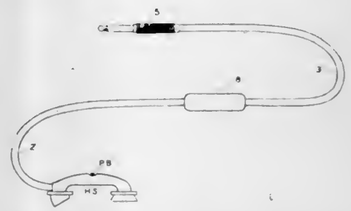
1. A device of the character described for testing space perception of a person, comprising a base, mounted on said base a test object having a three dimensional irregular pattern preponderantly inducing non-perspective space perception, associated with said base means for positioning the person relatively to said object for binocular observation thereof, means for rotating said object, about at least one axis, relatively to said positioning means to adjust said object until it appears to the person in a predetermined position, and means for adjusting the dimensional relation of the ocular images of said object to compensate discrepancies of the apparent and actual locations of said object, indicative of defects of binocular vision.

2,168,309
PROCESS FOR DEHYDRATING AN EMULSION
Walter R. Alexander, Seattle, Wash.
Application August 2, 1935, Serial No. 34,388
3 Claims. (Cl. 196—4)



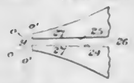
1. The process of dehydrating a tar emulsion comprising adding a reagent characterized by having an alkalinity of the type produced by a soap of relatively high titer and tri-sodium phosphate at a temperature of 90° F. to 200° F.; and cascading through said mixture at atmospheric pressure small bodies having an attraction for water.

2,168,310
PORTABLE ELECTRIC COMMUNICATION NETWORK
Harry R. Allensworth, Columbus, Ohio
Application March 27, 1937, Serial No. 133,401
16 Claims. (Cl. 179—29)



1. In combination, a portable telephone cord and a capsule suspended thereby and integrally built into said cord intermediate of its ends and containing a network establishing communication between the parts of said cord.

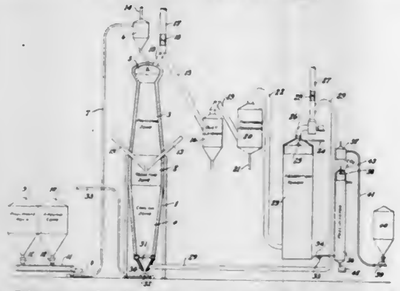
2,168,311
BLANK FOR AND METHOD OF MAKING WRITING PENS
Leon Hehl Ashmore, Collingswood, N. J., assignor to The Esterbrook Steel Pen Manufacturing Company, Camden, N. J., a corporation of New Jersey
Application June 7, 1935, Serial No. 25,468
Renewed October 28, 1938
7 Claims. (Cl. 113—32)



1. As a new article of manufacture, a flat metal blank for the formation of a writing pen having a pierce hole and a tapered slot definitely spacing the nib portions thereof and extending from the point of the blank to the pierce hole; the walls of said slot diverging with respect to, the longitudinal axis of the blank and said nib portions and the latter having the inner corners at their ends rounded before the blank is raised to pen form.

4. The method of making pens which consists in forming a flat blank from suitable metal stock, providing a pierce hole therein, slitting said blank by a plurality of cuts on diverging lines between the pierce hole and the point of the same to form nib portions definitely spaced apart throughout their length, treating the flat blank by tumbling operation with a suitable abrasive to remove all fins and projections due to the blanking and shearing operations and thereby rounding the nib portions at the writing tip end of the pen; and thereafter raising the flat blank to pen form and simultaneously bringing the ends of the nib portions into meeting relation.

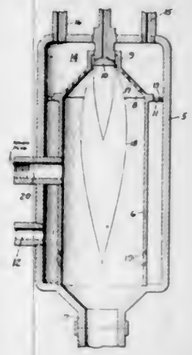
2,168,312
METHOD FOR PRODUCING PHOSPHORUS
Thaddeus F. Baily, Alliance, Ohio
Application April 23, 1937, Serial No. 138,630
13 Claims. (Cl. 23—223)



7. The method of recovering phosphorus from phosphate rock which comprises subjecting freely falling particles of phosphate rock and carbon to the heat of an open electric arc at temperatures and under conditions which effect reduction and volatilization of the phosphorus while the particles are in suspension.

2,168,313
COMBUSTION MEANS
Francis Russell Bichowsky, Toledo, Ohio
Application August 28, 1936, Serial No. 98,426
5 Claims. (Cl. 60—46)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A combustion device, comprising a first substantially closed cylindrical member, a second member disposed therein and spaced therefrom to define a combustion chamber whereof the cross section is not greatly in excess of that of the flame maintained therein during normal operation, said second member having at one end a frusto-conical portion having at its small end a cylindrical terminal portion and having a laterally extending flange at the base of said frusto-conical portion reaching to said first member, the other end of said second member being open and fitting against an end of the first member; the said flange, the said frusto-conical portion



and the wall of said second member adjacent said other end being provided with fine perforations; means to introduce fuel in the form of spray into the said cylindrical termination, means to introduce under pressure a fluid constituent of a combustible mixture into the space surrounding said frusto-conical portion, and means to introduce a volatile liquid into the space between said first and second members under such pressure that the said liquid is forced through said perforations to surround the flame in said second member with an atmosphere of the said liquid in comminuted form admixed with said fluid constituent.

2,168,314
TOUCH TIME WATCH
James L. Blanks, Seattle, Wash.
Application May 24, 1938, Serial No. 209,798
2 Claims. (Cl. 58—126)

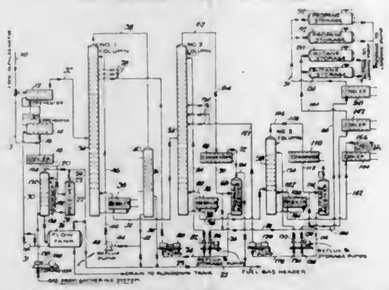


1. In a touch timepiece, the combination of a dial having a raised scalloped rim provided with point shaped projections forming hour graduations discernible by touch, an hour disc having a countersink at the center, an hour hand on the disc outside of the countersink, a minute-disc disposed in said countersink with its top face flush with the top face of the hour-disc and a minute-hand on said minute-disc.

2,168,315
METHOD FOR THE PURIFICATION OF PETROLEUM MAHOGANY SULPHONATES
Manuel Blumer, Butler, Pa., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware
No Drawing. Application January 19, 1937, Serial No. 121,287
12 Claims. (Cl. 260—504)

1. Method of purifying petroleum mahogany sulphonates containing entrained oil which comprises contacting crude mahogany sulphonates containing entrained oil and inorganic salts with an organic solvent and water, while maintaining a pH range between 3.0 and 9.0 and a ratio of mahogany sulphonate containing entrained oil and inorganic salts to solvent and to water as well as a ratio of solvent to water in excess of 0.5 to thereby form a first liquid layer substantially free from inorganic salts and containing organic solvent and mahogany sulphonate plus entrained oil and a second liquid layer containing water, thereafter separating said first liquid layer from said second liquid layer and finally removing said solvent from said first liquid layer to thereby recover mahogany sulphonate plus entrained oil substantially free from inorganic salts, said solvent being substantially liquid at ordinary temperatures and possessing a boiling point sufficiently low to permit its removal without substantial decomposition of mahogany sulphonate, the affinity of the solvent for the crude mahogany sulphonate containing entrained oil being greater than the affinity of the solvent for water.

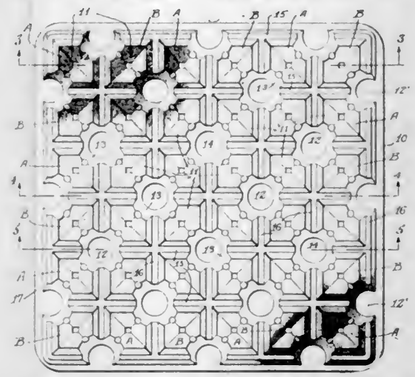
2,168,316
DISTILLATION AND FRACTIONATION PROCESS AND APPARATUS
David G. Brandt, Westfield, N. J., assignor to Power Patents Company, Hillside, N. J., a corporation of Maine
Original application July 1, 1931, Serial No. 548,062. Divided and this application October 7, 1936, Serial No. 104,387
26 Claims. (Cl. 196—11)



5. The process of stabilizing pressure distillate which comprises, rectifying the said distillate in the presence of added propane under high pressure and at a temperature not higher than 300° F., thereby separating methane and ethane from the remainder of the distillate, subsequently rectifying the latter in the presence of added butane at superatmospheric pressures substantially below that employed in the first rectification and within a temperature range of from 110° F. to 300° F., separately withdrawing from the second rectification propane and a rectified liquid distillate substantially free of propane, thereafter rectifying the latter in the presence of refluxed butane under superatmospheric pressure lower than those employed in the first two rectifications and in a temperature range of from 110° F. to 253° F., and separately withdrawing from the last-named rectification butane and rectified pressure distillate.

17. A continuous process for stabilizing unstable gasoline containing undesirable low boiling point constitutents, which comprises continuously introducing the unstable gasoline into a fractionating column and subjecting it to rectifying conditions therein, continuously introducing into the column a butane fraction having a vapor pressure higher than that of gasoline but not higher than that of butane whereby constituents of higher vapor pressure are replaced in the unstable gasoline by said fraction, discharging the replaced constituents in vapor form from the column, continuously removing the stabilized gasoline including said introduced fraction from said column in liquid form and separating from the gasoline the hydrocarbon material comprising said fraction, and returning at least a portion of the separated fraction to said column.

2,168,317
PACKING MATERIAL
Dwight S. Brigham, Newton, Mass., and Walter J. Schwertfeger, Bogata, N. J., assignors, by mesne assignments, to The Canal National Bank of Portland, Portland, Maine, as trustee, a national banking association of the United States
Application November 20, 1935, Serial No. 50,654
7 Claims. (Cl. 217—27)

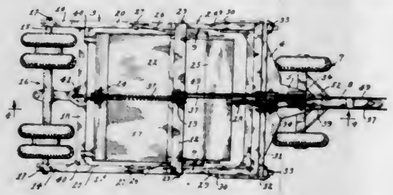


1. A packing sheet adapted to be nested with similar sheets, said sheet having distributed over one face thereof two sets of spaced rows of upstanding elongated article supports, the supports of the rows of one set having their major axes disposed in the same direction diagonally of the sheet, the supports of the rows of the other set also having their major axes disposed in the same direction diagonally of the sheet but intersecting the rows of the first set at right angles, the rows of the second named set occupying the spaces between the rows of the first named set, and the arrangement of said sets of rows in diagonally intersecting relationship over the face of the sheet permitting the supports of either diagonal set of rows of said sheet to be nested at random with the supports in either of the diagonal sets of rows of a similar sheet.

2,168,318
HEAVY DUTY SCRAPER
Max M. Brodersen, Alhambra, and Len O. Bird, Glendale, Calif.; said Brodersen assignor to said Bird
Application March 25, 1935, Serial No. 12,812
6 Claims. (Cl. 37—126)

1. In a dirt moving machine a front frame

structure having opposite side elements, a front running gear unit supporting the forward end of said frame structure, a rear frame structure pivotally connected at its lower forward end to the rear of said front frame structure for vertical movement, said rear frame structure having opposite side members, a rear running gear supporting the rear ends of said rear frame structure, means associated with said frame structures to control pivotal movement with relation to each other around their common pivotal axis, whereby



the level of said axis may be raised and lowered, a scraper bowl disposed between the said frame elements of the rear frame section and mounted for vertical swinging movement upon said rear frame section and upon its pivotal connection with the front frame section, stop means carried by the rear frame section for limiting the downward swinging movement of the rear of the bowl, and means for swinging the bowl vertically to desired positions of angularity with relation to the ground.

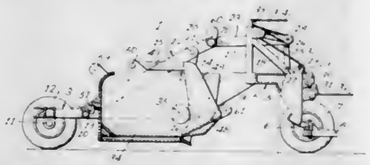
2,168,319

HEAVY DUTY SCRAPER

Max M. Brodersen, Alhambra, and Len O. Bird, Glendale, Calif.; said Brodersen assignor to said Bird

Application April 6, 1936, Serial No. 72,934

10 Claims. (Cl. 37—126)



2. In a scraper including front and rear frame sections pivotally connected together, a bowl pivotally mounted on the rear frame section, a closure for said bowl pivotally connected to said rear frame section, a latch on said bowl for holding the bowl in the scraping and carrying position, a cable associated with said closure, bowl and latch for automatically actuating same in the proper sequence.

2,168,320

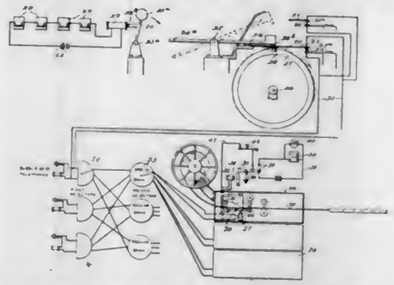
TELEPHONIC HOUSE PROTECTION SYSTEM

Jesse J. Brown, Syracuse, N. Y.

Application April 7, 1936, Serial No. 73,177

13 Claims. (Cl. 179—5)

1. Building protection apparatus comprising a dial telephone system, an automatically acting transmitter constructed and arranged for transmitting dialing impulses to said system of a character different and distinct from the impulses produced by the manual dial telephone, with locking means for holding said transmitter normally inactive, a condition-responsive device adapted to release said locking means upon the occurrence of an abnormal condition, and a special central connected in said dial telephone system and constructed to receive and record



warning indicia from said automatically acting transmitter only.

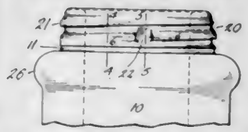
2,168,321

RECEPTACLE AND CLOSURE CAP THEREFOR

Loomis Burrell, Little Falls, and Ralph K. Miner, Oriskany Falls, N. Y., assignors to Cherry-Burrell Corporation, Chicago, Ill., a corporation

Application November 12, 1936, Serial No. 110,498

2 Claims. (Cl. 215—7)



1. A bottle or the like provided adjacent its mouth with an external screw thread, and an abrupt locking face transverse to the circumferential direction of said screw thread, in combination with a removable closure cap of thin pliable material which has a skirt of substantially uniform strength throughout its circumferential extent formed with a screw thread that engages said bottle thread for securing the cap in sealing relation on the bottle, the skirt of said removable cap having an integral locking part which by engaging said locking face opposes the turning of the cap on the bottle, but which is adapted to be ruptured by said locking face by applying turning force to the cap in the direction to unscrew it and allow the cap to be unscrewed.

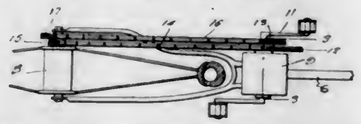
2,168,322

CHANGE SPEED MECHANISM FOR BICYCLES

James Edward Butler, Woodville, Ala.

Application January 6, 1937, Serial No. 119,334

7 Claims. (Cl. 74—217)



1. A change speed mechanism for bicycles comprising a pedal operated drive shaft, a pair of sprocket wheels freely rotatable thereon, a lever pivotally carried by and enclosed within the shaft for selectively connecting said sprocket wheels for rotation therewith, and means free of the shaft and operable through openings in the shaft for actuating said lever into and out of sprocket engaging position.

2,168,323

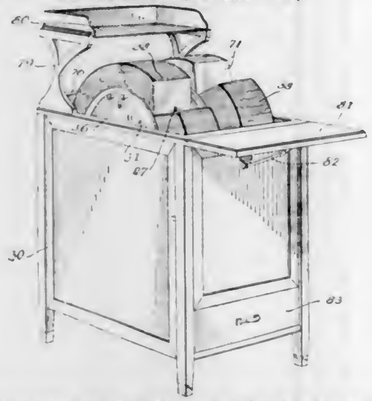
ROTARY CARD INDEX

George C. Bruen, Chicago, Ill., assignor to Rotary Index Co., Inc., Chicago, Ill., a corporation of Illinois

Application March 30, 1934, Serial No. 718,126

Renewed September 1, 1937

38 Claims. (Cl. 129—16)



1. A rotary card index comprising a supporting wheel, a card mounting rail arranged peripherally on the wheel and adapted to receive a multiplicity of cards arranged more or less radially of the wheel and having slots for mounting them on the rail, the rail including an arcuate rail section, and means for pivoting the rail section about one end thereof to expose the other end thereof for the removal of cards endwise of the section.

6. A rotary card index comprising a horizontally journaled wheel having an outwardly opening channel-shaped periphery, a rail extending about the periphery of the wheel and comprising a head and a neck or flange portion, the rail being laterally offset slightly from the mid-point of the channel, and a multiplicity of cards arranged more or less radially upon the wheel, each card having at its inner edge a keyhole-shaped slot for removably engaging the rail, the slots in the cards being slightly offset laterally from the medial lines of the cards whereby, when some of the cards are mounted upon the rail with their faces reversed, they will be offset slightly from cards mounted on the wheels with their faces not reversed.

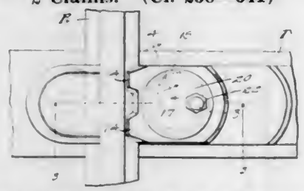
2,168,324

FASTENING DEVICE

Oliver M. Case, Evansville, Ind., assignor to Flora Belle C. Mini, Evansville, Ind.

Application October 23, 1937, Serial No. 170,697

2 Claims. (Cl. 238—341)



1. In combination with a tie, a fastening device for the inside flange of a rail comprising a shank extending upwardly from the tie, a disk eccentrically mounted upon the shank, a clamping plate provided with an opening in which the disk snugly engages, said clamping plate having means to engage the inside flange of the rail, the wall of the opening in the clamping plate being provided with a plurality of recesses, the periphery of the disk having a recess to be selectively brought into register with one of the first named recesses, said disk when so adjusted swinging on the shank, a locking plate eccentrically mounted on the shank and overlying the applied disk and the adjacent portion of the clamping plate entirely surrounding the opening in the plate, said locking plate having a pin extending within the registering recesses.

2,168,325

FLUID COMPOSITION

Ivor M. Colbeth, East Orange, N. J., assignor to The Baker Castor Oil Company, Bayonne, N. J., a corporation of New Jersey

No Drawing. Original application July 13, 1935, Serial No. 31,210. Divided and this application July 21, 1938, Serial No. 220,455

6 Claims. (Cl. 252—5)

1. A liquid composition for fluid pressure systems comprising acetylated glyceryl tri-ricinoleate, together with diethylene glycol ether, the acetylation being at a hydroxyl group of the acid radical not in the carboxyl group.

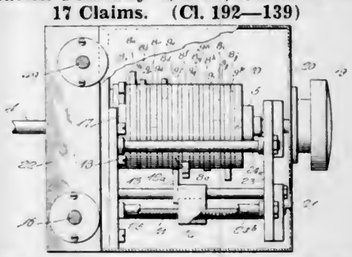
2,168,326

AUTOMATIC TUNING SYSTEM AND APPARATUS

Arthur A. Collins, Cedar Rapids, Iowa

Application February 1, 1937, Serial No. 123,453

17 Claims. (Cl. 192—139)



1. Shaft positioning mechanism comprising a series of stop rings having projecting lugs adjustably mounted with respect to the shaft, a stop movable on a line parallel to the axis of the shaft adjusted for coaction with the projecting lug on a selected one of said stop rings, and means for rotating the shaft in one direction to a position wherein all of said projecting lugs have been rotated beyond the line on which said movable stop is adjusted to selected position and for rotating the shaft in the opposite direction to bring the lug on the selected one of said stop rings into contact with the stop.

2,168,327

REVIVIFICATION OF SPENT ADSORBENTS

Henry C. Cowles, Jr., and Arthur B. Hersberger, Philadelphia, Pa., assignors to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application May 8, 1937, Serial No. 141,578

2 Claims. (Cl. 252—2)

1. In a process of revivifying an adsorbent employed in decolorizing hydrocarbon oils, the steps which comprise washing said adsorbent with an organic solvent containing ammonia capable of displacing the impurities held by said adsorbent

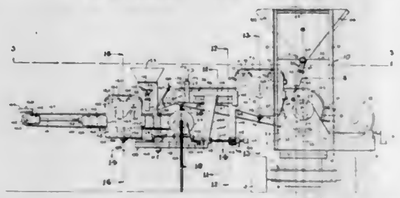
and with a solvent capable of dissolving said impurities, said first mentioned solvent containing sufficient water to render it substantially immiscible with said second solvent and with hydrocarbon oil.

2,168,328
DEICING MEANS FOR AIRPLANES
Walter S. Diehl, United States Navy
Application December 4, 1937, Serial No. 178,095
6 Claims. (Cl. 244—134)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



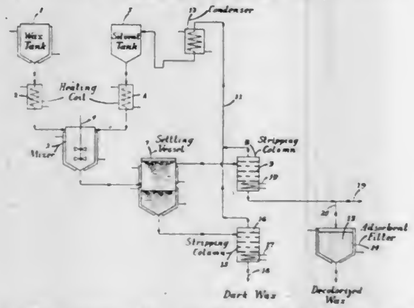
1. A deicing means for airplane sufaces exposed to ice-forming conditions comprising an expansible elastic covering secured to such surface and means for producing a lesser pressure on the inner surface of said covering than on the outer surface thereof.

2,168,329
PLASTERING APPARATUS
Spencer A. Earnshaw, Los Angeles, Calif.
Application January 2, 1937, Serial No. 118,777
20 Claims. (Cl. 72—130)



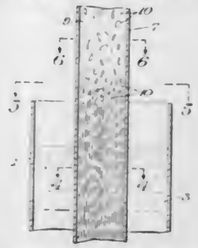
1. In an apparatus of the class described, a belt conveyor, means to deliver material to the belt conveyor, means associated with the belt conveyor to form a pattern on the material delivered upon the belt conveyor and means to drive the belt conveyor and thereby advance the patterned formed material.

2,168,330
PURIFICATION OF WAXES
Seymour W. Ferris, Aldan, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application May 8, 1935, Serial No. 20,395
2 Claims. (Cl. 196—17)



1. The process for producing light-colored wax fractions and dark-colored wax fractions from a substantially oil-free hydrocarbon wax containing color-bodies and which is not amenable to treatment for the removal of color bodies by the usual refining processes involving acid and clay treatment, which comprises bringing substantially oil-free hydrocarbon wax into intimate contact with nitrobenzene in sufficient amount and at a temperature above the melting point of said wax such as will effect formation of two liquid phases, one comprising undissolved wax of substantially the same melting point as the initial hydrocarbon wax and the other comprising nitrobenzene containing dissolved wax and color-bodies, separating the liquid phases so formed at a temperature above the melting point of the initial hydrocarbon wax, and removing nitrobenzene therefrom.

2,168,331
CAST RESIN WITH INTEGRAL SHEEN
Charles M. Fields, Arlington, and George A. Wilkens, Ridgefield, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application October 17, 1936, Serial No. 106,252
11 Claims. (Cl. 18—58)



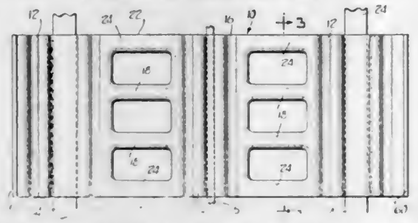
1. Process of concentrically orienting light reflecting lamellae in rods with respect to their major axes where said rods are formed by polymerizing a polymerizable liquid organic compound adapted to give a polymer solid at ordinary temperatures, which comprises mixing and suspending light reflecting lamellae in said organic compound, introducing a substantial volume of the resulting mixture into an elongated mold closed at one end, applying heat to a narrow zone at the closed end of the mold while said mold is substantially vertically positioned, until said organic compound in that zone is substantially polymerized, and progressively advancing the heating zone along the major axis of the mold at about the rate at which said organic compound in the mold is being polymerized, while maintaining the liquid organic compound ahead of the advancing heating zone at a temperature below that at which said organic compound will undergo active polymerization.

2,168,332
SEED PLANTING, SEED INOCULATION, AND FERTILIZER
Albert C. Fischer, Chicago, Ill.
No Drawing. Application March 21, 1935, Serial No. 12,245
3 Claims. (Cl. 47—58)

1. The process of treating a seed before planting which comprises coating the seed with a protective colloidal coating, drying the coating, then applying additional coatings of plant food and insecticide.

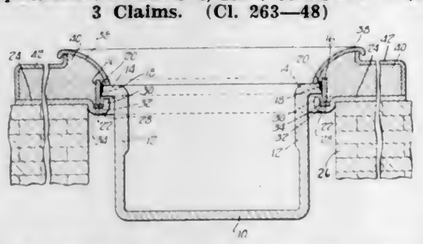
2. The process of treating a seed before planting which comprises coating the seed with a protective colloidal coating, drying the coating, then applying additional coatings of plant food and insecticide, and then applying a coating containing an inoculating bacteria.

2,168,333
HEAT TREATING FURNACE TRAY
Henry H. Harris, Champaign, Ill.
Application October 14, 1937, Serial No. 168,907
3 Claims. (Cl. 263—49)



1. A flexible tray for use in heat-treating furnaces formed of a continuous sheet of metal having formed therein a plurality of spaced-apart, trough-like members, and having formed in the sheet corrugated portions on either side of the trough-like members and at right angles thereto, the sheet having openings therein between said trough-like members.

2,168,334
FURNACE POT
Henry H. Harris, Champaign, Ill.
Application December 1, 1937, Serial No. 177,427
3 Claims. (Cl. 263—48)



1. A furnace pot having a narrow outwardly extending marginal flange at the top thereof, a ring welded about and secured to said flange, said ring being sharpened at its lower edge, and supporting means for said pot comprising a collar having thereon a ring of relatively softer metal, the said sharpened ring edge resting upon the softer metal.

2,168,335
CELLULOSIC MATERIAL AND METHOD FOR PREPARING SAME
Winfield Walter Heckert, Ardentown, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 17, 1936, Serial No. 85,815. In Germany June 18, 1935
16 Claims. (Cl. 8—57)

1. The process which comprises dyeing a cellulosic structure containing a phenol-aldehyde-amine resin with a dyestuff taken from the group consisting of acid and direct dyestuffs.

2,168,336
CELLULOSIC STRUCTURE AND METHOD FOR PRODUCING SAME
Winfield Walter Heckert, Ardentown, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 17, 1936, Serial No. 85,816. In Germany June 18, 1935
24 Claims. (Cl. 8—57)

1. The process which comprises dyeing with a direct dyestuff an organic cellulose derivative structure containing an amine polymer which is insoluble in water and in 5% aqueous ammonia and soluble in 2% aqueous acetic acid said polymer having the property of increasing the affinity of said structure for said direct dyestuff.

2,168,337
CELLULOSIC STRUCTURE AND METHOD FOR PREPARING SAME
Winfield Walter Heckert, Ardentown, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 17, 1936, Serial No. 85,817. In Germany June 18, 1935
24 Claims. (Cl. 8—55)

1. The process which comprises dyeing with an acid dyestuff, a cellulosic structure containing an amine polymer which is insoluble in water and in 5% aqueous ammonia and soluble in 2% aqueous acetic acid, said polymer having the property of increasing the affinity of said structure for said acid dyestuff.

2,168,338
CELLULOSIC STRUCTURE AND METHOD OF PRODUCING SAME
Winfield Walter Heckert, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application May 20, 1937, Serial No. 143,830
26 Claims. (Cl. 8—64)

1. The process of imparting to an organic cellulose derivative structure an affinity for dyestuffs which comprises uniting the said structure with a polymeric amino alcohol ester of an acid taken from the group consisting of acrylic acid and alpha substituted acrylic acid.

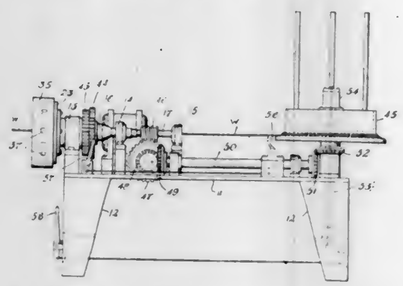
9. The process of imparting to a cellulose acetate structure an affinity for dyestuffs which comprises embodying in said structure a polymeric amino alcohol ester of an acid taken from the group consisting of acrylic acid and alpha substituted acrylic acid.

2,168,339
ANT TRAP
Curtis J. Himel, New Orleans, La.
Application December 16, 1938, Serial No. 246,194
6 Claims. (Cl. 43—121)



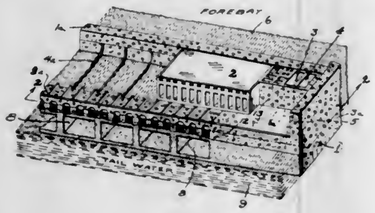
1. An ant trap comprising a frame adapted to rest on ground, a forward platform to one side of the support, a rear platform to the rear side of the support, an insecticide receptacle between and below said platforms, a bait receptacle on the rear platform, the forward platform being supported by spaced ant runways, the inner sides of said platforms terminating in needle ends inclined downwardly and inwardly and terminating in spaced relation above the receptacle between the platforms.

2,168,340
METHOD OF AND APPARATUS FOR GROOVING WIRE
Charles K. Hill, Cleveland, Ohio, assignor to The Hillwood Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 24, 1936, Serial No. 117,496
8 Claims. (Cl. 80—10)



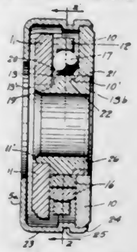
1. A method of preparing stock for spiral-grooved nails which comprises continuously unwinding wire from a roll, imparting to said wire throughout its length a spiral groove, and winding the grooved wire on a drum having a tapered surface.

2,168,341
FISHWAY
Harlan B. Holmes and Henry F. Blood, Portland, Oreg., and Milo C. Bell, Seattle, Wash., assignors to United States of America, as represented by Secretary of War
Application March 1, 1938, Serial No. 193,292
6 Claims. (Cl. 61—21)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



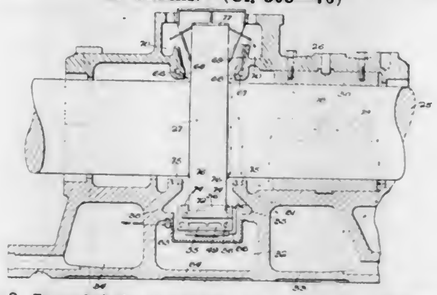
1. In a structure of the class described, the combination of a dam provided with a forebay and a tailrace, a collection bay disposed adjacent said dam and provided with a portal leading to the tailrace, a weir disposed in said portal, and a fishway disposed between the collection bay and the forebay for effecting the transfer of fish between the collection bay and the forebay.

2,168,342
SELF-CONTAINED THRUST BEARING
Walter E. Horrocks, Lakewood, Ohio
Application August 3, 1936, Serial No. 94,074
1 Claim. (Cl. 308—232)
A self-contained thrust bearing comprising a pair of flat opposing races, one race ring having a collar attached thereto, an opposing race ring journaled on the said collar to allow of free axial movement of the opposing race ring on said collar, a separator having projections, journaled on said collar, with balls or rollers interchangeable



between the opposing race rings and the projections of the separating ring.

2,168,343
LUBRICATING MEANS FOR THRUST BEARINGS
Harry A. S. Howarth, Philadelphia, Pa., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application February 24, 1937, Serial No. 127,551
48 Claims. (Cl. 308—76)

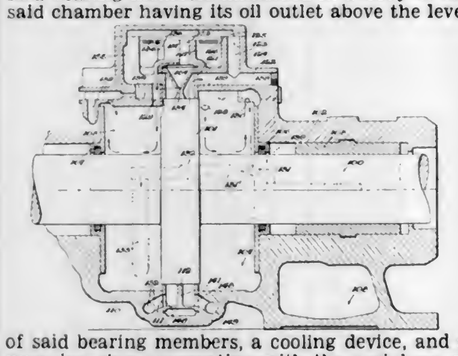


8. In a lubricating means for thrust bearings, the combination of a thrust collar, means cooperating with the thrust collar for removing oil therefrom and distributing the same to the bearing surfaces, cooling means, means cooperating with said thrust collar to circulate oil through said cooling means separately from the circulation effected by said distributing means, and means cooperating with said thrust collar to maintain the cavities containing the bearing surfaces substantially free from oil except for the oil wetting the bearing surfaces.

30. In a lubricating means for thrust bearings, in combination with a thrust collar, circulating means cooperating with said thrust collar and including an arcuate member adapted to cooperate with the periphery of said thrust collar, said circulating means including circumferentially extending viscosity pump channels, cooling means connected with one of said channels whereby rotation of said thrust collar forces oil through said cooling means, and jets disposed adjacent the bearing surfaces and connected with another of said channels whereby oil is forced to said jets by the rotation of said collar, said circulating means being also provided with means whereby it functions as a distributing means for the oil.

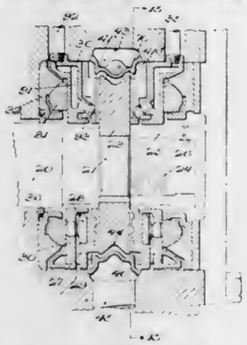
2,168,344
LUBRICATING MEANS FOR THRUST BEARINGS
Harry A. S. Howarth, Philadelphia, Pa., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application March 4, 1937, Serial No. 129,052
37 Claims. (Cl. 308—168)
4. In a lubricating means for thrust bearings,

in combination with a rotatable thrust collar, bearing members cooperating therewith and means providing with said collar a chamber in which said bearing members are disposed and adapted to retain oil therein so as to maintain said bearing members immersed in a body of oil, said chamber having its oil outlet above the level



of said bearing members, a cooling device, and a pumping ring cooperating with the periphery of said thrust collar and having separate provisions for circulating oil, one for pumping oil to and from said cooling device without first passing through said chamber and another for pumping oil to and through said chamber to maintain said chamber filled with oil.

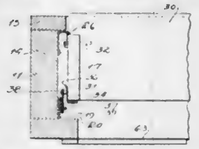
2,168,345
HIGH SPEED THRUST BEARING
Albert Kingsbury, Greenwich, Conn., assignor to Kingsbury Machine Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application August 24, 1934, Serial No. 741,323
32 Claims. (Cl. 308—160)



1. In a high speed thrust bearing, the combination of relatively rotatable thrust bearing members including stationary bearing members having cavities therebetween, means for delivering oil to the bearing surfaces thereof adjacent the inner periphery of the rotatable bearing member whereby the oil is caused to flow radially across the same by centrifugal action, an oil receiving member radially aligned with and adjacent to but out of contact with the outer periphery of said bearing surfaces for receiving directly from said surfaces the oil flowing thereacross, and means in said oil receiving member through which the oil so collected is discharged to the exterior of said oil receiving member before it can collect to fill said cavities whereby the cavities between said bearing members are kept free of oil except for that flowing across the bearing surfaces.

2,168,346
PROCESS OF PRODUCING PHENOLPHTHALEIN
Max Hubacher, Valley Stream, N. Y., assignor to Ex Lax, Inc., a corporation of New York
No Drawing. Application February 11, 1938, Serial No. 190,030
5 Claims. (Cl. 260—337)
1. A process of producing phenolphthalein by condensing a mixture of phenol, phthalic anhydride and phthalylchloride in the presence of anhydrous zincchloride.

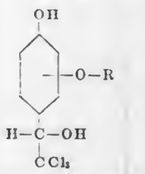
2,168,347
TROPICAL LOUVER
Van E. Huff, Miami, Fla.
Application November 12, 1937, Serial No. 174,235
6 Claims. (Cl. 20—62)



1. In a louver, a member connecting the edges of a plurality of pivoted slats, a weather-strip member extending from said first member and having a sliding wedging engagement with a fixed portion of said louver in order to weather-proof said slat assembly when closed.

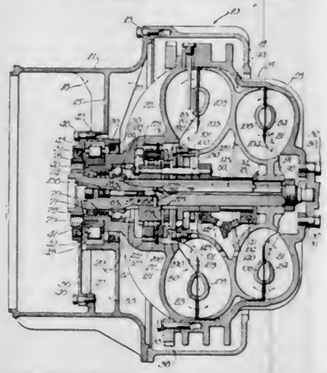
2,168,348
CELLULOSIC COMPOSITION AND METHOD OF PREPARING SAME
Emmette F. Izard, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application June 4, 1937, Serial No. 146,440
16 Claims. (Cl. 134—79)
1. A clear, homogeneous composition which may be readily formed into filaments and films composed of an organic acid derivative of cellulose, a resinous polymeric amino nitrogen containing compound which when mixed with said organic derivative of cellulose will form a turbid composition, and, as a material to prevent turbidity of the composition, an organic acid having an ionization constant in water of at least 1×10^{-5}.

2,168,349
TRICHLOR METHYL AROMATIC CARBINOL ETHERS
Lucas P. Kyrides, Webster Groves, Mo., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application December 11, 1935, Serial No. 53,903
3 Claims. (Cl. 260—613)
1. A new chemical compound having the formula:



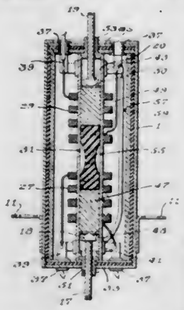
where R is a hydrocarbon radical selected from the group consisting of phenyl, benzyl and cyclohexyl.

2,168,350
TORQUE CONVERTING AND TRANSMITTING MECHANISM
Robert Lapsley, Berrien Springs, Mich., assignor to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application July 12, 1933, Serial No. 680,115
Renewed July 6, 1936
25 Claims. (Cl. 192—48)



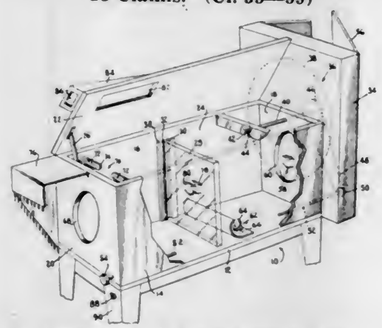
1. In combination, a torque converter comprising fluid-connected driving and driven members, means biased in response to the speed of rotation of the driven member for mechanically connecting both of said members together, and means for preventing said mechanical connection until the speed of the driven member is substantially equal to the speed of the driving member.

2,168,351
ADJUSTABLE MAGNETIC-CORE INDUCTOR
William D. La Rue, Merchantville, and Robert L. Harvey, Oaklyn, N. J., assignors to Radio Corporation of America, a corporation of Delaware
Application August 31, 1936, Serial No. 98,748
3 Claims. (Cl. 171—242)



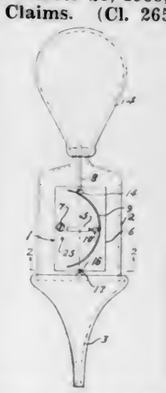
1. A high frequency inductor unit comprising a hollow sleeve of insulating material supporting means disposed at each end of said sleeve, a transformer comprising primary and secondary inductors mounted in spaced relation along said sleeve, a pair of cores individual to said primary and secondary inductors within said sleeve, means individual to each of said cores and extending between each of said supporting means and the core next adjacent thereto in the interior of said sleeve for moving said cores respectively in a given axial direction with respect to said inductors whereby to independently change the self-inductance of each of said inductors, and separate means within said sleeve and positioned between said cores for effecting movement of said cores in the reverse direction with respect to said primary and secondary inductors of said transformer, said cores being spaced from each other a distance substantially greater than that between said inductors to prevent a material change in the coefficient of coupling between said inductors when their self-inductance is varied.

2,168,352
COLOR-COMPARING DEVICE
Rolla Lawry, Tucson, Ariz., assignor to Joseph M. Gross, Rockville Centre, Long Island, N. Y.
Application September 24, 1934, Serial No. 745,354
Renewed May 14, 1938
15 Claims. (Cl. 35—59)



1. In apparatus of the character described, a casing having an opening at one end thereof, a transparent member positioned intermediately of the casing, means to cause the projection upon the member of an image of a face positioned at the opening, an image-presenting comparison member, and means in the casing for simultaneously projecting upon the transparent member an image from the comparison member so that both images are simultaneously visible to one whose face is positioned at the opening.

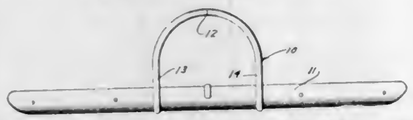
2,168,353
HYDROMETER
Charles E. Linebarger, Chicago, Ill., assignor to The Chaslyn Company, Chicago, Ill., a corporation of Illinois
Application December 23, 1935, Serial No. 55,765
3 Claims. (Cl. 265—45)



1. A hydrometer comprising a transparent

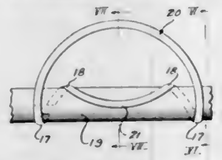
syringe, a universal joint member, a scale sheet suspended in the syringe by said member, a hollow vane having a pointer fixed to one end and a coiled wire bearing fixed to the other end, said bearing being pivoted to the scale sheet.

2,168,354
ORNAMENTAL GRILLE AND FENDER GUARD
George Albert Lyon, Allenhurst, N. J.
Application July 29, 1937, Serial No. 156,281
20 Claims. (Cl. 293—55)



1. As an article of manufacture for vehicle bumpers, an auxiliary impact member having means thereon for making a detachable snap-on engagement with a vehicle bumper, said engagement with said bumper being so arranged as to resist tortional forces therein caused by heavy impact blows on any part of said auxiliary impact member.

2,168,355
METHOD OF MAKING AUXILIARY IMPACT MEMBERS
George Albert Lyon, Allenhurst, N. J.
Application July 29, 1937, Serial No. 156,282
8 Claims. (Cl. 29—152)



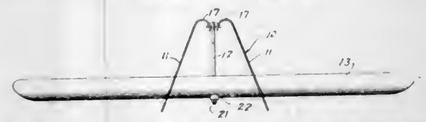
1. The method of making auxiliary impact members for vehicle bumpers which includes taking a substantially circular ring of resilient metal stock, said ring having a discontinuity at one point thereon, folding the ring back on itself along a line substantially parallel to a diameter of the circular strip, one of the lines of fold being in close proximity to said discontinuity, thereby to provide a short folded end portion and a long folded end portion, and finally folding a central part of said long folded end portion forward on itself.

2,168,356
SNAP-ON BUMPER GUARD
George Albert Lyon, Allenhurst, N. J.
Application October 20, 1937, Serial No. 170,033
6 Claims. (Cl. 293—55)



1. As an article of manufacture for vehicle bumpers, an auxiliary impact member formed of cold-rolled strip steel stock comprising a single bow-shaped member having downwardly converging legs, each of said legs having a pair of complementary teeth thereon extending around the upper and lower edges of a vehicle bumper for securing said member thereto.

2,168,357
AUXILIARY IMPACT MEMBER
George Albert Lyon, Allenhurst, N. J.
Application October 20, 1937, Serial No. 170,035
12 Claims. (Cl. 293—55)



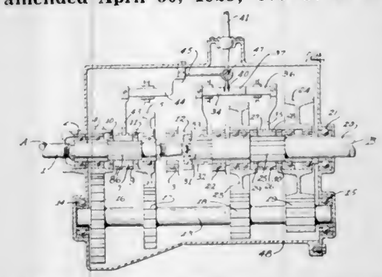
1. As an article of manufacture, an auxiliary multi-impact member assembly for vehicle bumpers comprising a pair of downwardly diverging impact legs, having their upper portions bent towards each other, each of said legs having a pair of complementary teeth thereon extending over and under the upper and lower edges respectively of a vehicle bumper, and means engaging said bent upper portions for urging said legs apart.

2,168,358
AUXILIARY IMPACT MEMBER AND METHOD OF MAKING THE SAME
George Albert Lyon, Allenhurst, N. J.
Application October 25, 1937, Serial No. 170,783
12 Claims. (Cl. 29—152)



1. The method of making blanks for auxiliary impact members from a long narrow strip of metal stock which includes cutting rows of blanks by a series of reversely curved lines of cut, the blanks in each row being staggered with respect to the blanks beside them and each line of cut defining approximately one half of one edge of an impact member blank.

2,168,359
POWER-TRANSMISSION GEAR
John W. Marsh, Washington, D. C.
Application October 20, 1936, Serial No. 106,573
4 Claims. (Cl. 74—375)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



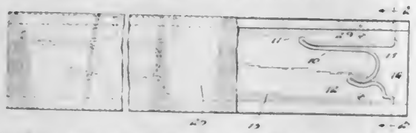
1. A transmission mechanism comprising an output shaft, having a plurality of gears of different diameters rotatably mounted thereon, a countershaft having gears fixed thereto, an input shaft axially aligned with said output shaft and having a plurality of gears of different diameters rotatably mounted thereon, said output shaft gears and said input shaft gears being in mesh with said countershaft gears, a clutch mechanism mounted on the adjacent ends of said output and said input shafts, means for independently clutching said output shaft gears to said

output shaft, means for independently clutching said input shaft gears to said input shaft, and means for independently engaging said clutch mechanism between said output and said input shafts without clutching said input shaft gears or said output shaft gears to their respective shafts, all means of engaging such gears and clutch mechanism being actuated by a single control.

2,168,360
CONCENTRATED FOOD PRODUCT
Albert Musher, New York, N. Y., assignor to Musher Corporation, Elizabeth, N. J., a corporation of New Jersey
Application November 17, 1937, Serial No. 175,097
10 Claims. (Cl. 99—1)

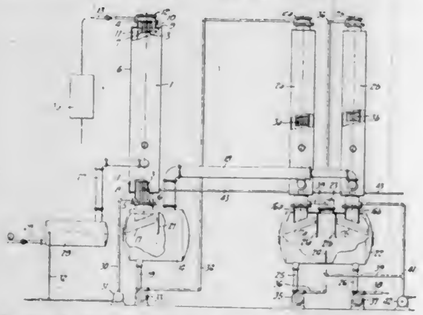
1. As a substantially non-aqueous food base composition for making cooked products by cooking in the presence of water: an edible substantially hard fat and a water-absorbent bodier material in an amount not exceeding 30% of the composition.

2,168,361
CLOTHES HANGER
Phillip W. Olson, Grand Rapids, Mich., assignor to Automatic Instrument Company, a corporation of Michigan
Application April 12, 1937, Serial No. 136,288
5 Claims. (Cl. 312—113)



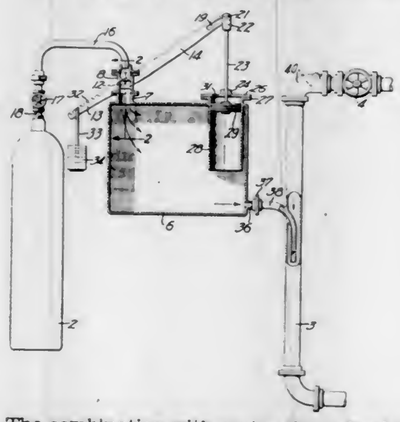
1. In a foldable hanger, a flat shallow casing having hollow ribs at top and bottom, a plurality of hooks pivoted upon vertical axes at top and bottom in the hollow ribs of the casing and rotatable to extend from the inside of the casing, and resilient means in one of the hollow ribs for engaging one of the pivoted ends of each hook for holding it yieldingly in a position within the casing or in a position extending from the casing.

2,168,362
EVAPORATING APPARATUS AND METHOD
David D. Peebles, Eureka, and Paul D. V. Manning, Berkeley Woods, Calif.
Application January 29, 1936, Serial No. 61,368
6 Claims. (Cl. 159—17)



2. In a liquid evaporating apparatus, a first stage heater including a plurality of evaporating tubes, means for introducing liquid to be evaporated into said tubes, a receiver connected to the discharge ends of said tubes and serving to collect liquid separated from discharged vapor, at least two second stage heaters each provided with evaporating tubes, means for delivering liquid from said receiver to the tubes of one of the second stage heaters, a receiver connected to the discharge ends of the tubes of both the second stage heaters and serving to collect liquid separated from discharged vapor, means serving to apply vapor discharged from the first stage heater for parallel heating of the second stage heaters, and means for introducing collected liquid discharged from said one second stage heater to the tubes of the other second stage heater, the tubes for each of the second stage heaters affording substantially less cross-sectional flow area, than the tubes for the first stage.

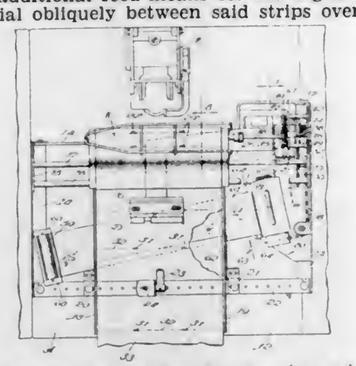
2,168,363
APPARATUS FOR MIXING FLUIDS
Gerrit M. E. Pos, Martinez, Calif.
Application November 9, 1936, Serial No. 109,972
2 Claims. (Cl. 210—28)



1. The combination with a pipe through which water is flowing, of a tank, a cylinder opening into said tank, a piston slidable in said cylinder for varying the volume of said tank, a conduit connected at one end to said tank and at the other end to said pipe in such a manner that a flow of water through said pipe will induce a flow through the conduit in proportion to the rate of water flow, thereby creating reduced pressures in the tank and causing the piston to move in one direction, a weight for moving the piston in the other direction, a drum containing fluid to be mixed with the water, a duct leading from the drum to the tank, a valve in the duct, and means connecting the valve with the piston for opening and closing the valves in accordance with the movements of the piston.

2,168,364
FEED MECHANISM FOR DUPLICATING MACHINES
John E. Schaefer, Chicago, Ill., assignor to United Autographic Register Co., a corporation of Illinois
Application December 27, 1937, Serial No. 181,860
11 Claims. (Cl. 101—57)

1. In combination: a frame having a table and mechanism for feeding printing plates seriatim into printing position thereon; feed means for aligning and advancing continuous-form stationery strips over said table into impression receiving position above the printing plate in printing position; additional feed means for moving transfer material obliquely between said strips over said



plate; presser mechanism for pressing said stationery against said plate; and driving means for actuating said mechanisms and feed means intermittently in timed relation.

2,168,365
GAME
Robert B. Stacy-Judd, Hollywood, Calif.
Application December 9, 1935, Serial No. 53,571
6 Claims. (Cl. 124—5)



1. A game of the character described, comprising; a throwing stick having a ball thereon; an arrow having a socket for receiving the ball; and means for mounting the ball for rotation on the stick so as to prevent movement of the ball relative to the socket during throwing movement of the stick.

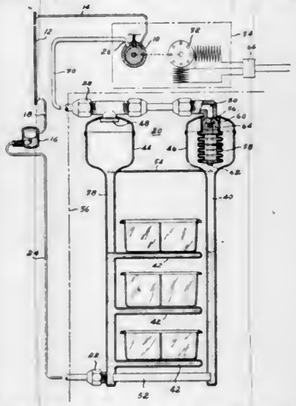
2,168,366
POROUS TUBE FOR STORAGE BATTERY ELECTRODES
Games Slayter, Newark, Ohio, assignor, by mesne assignments, to Owens-Corning Fiberglas Corporation, a corporation of Delaware
Application February 18, 1935, Serial No. 6,951
Renewed September 6, 1938
1 Claim. (Cl. 136—147)



A tubular diaphragm for storage batteries, comprising an inner tubular layer consisting of fine glass fibers, an overlying layer of comparatively coarse glass fibers, and a stiffening and strengthening material, comprising vulcanized rubber impregnating said outer layer.

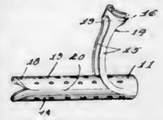
2,168,367
REFRIGERATING APPARATUS
Andrew A. Kucher, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 19, 1934, Serial No. 749,015
Renewed October 23, 1937
6 Claims. (Cl. 62—116)

1. A refrigerating apparatus comprising in combination, a refrigerant compressor, a motor for operating said compressor, a condenser, an evaporator, said evaporator being of a unitary construction and mounted in a food storage compartment in spaced relation to walls thereof for cooling and causing circulation of air therein, said unitary evaporator construction including two refrigerant evaporating portions having a refrigerant conveying communication therebetween, one of the said two evaporator portions forming one wall of a freezing chamber within



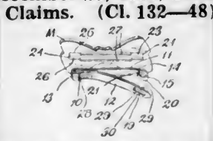
said compartment and the other of said two evaporator portions forming another wall of said freezing chamber for shielding the chamber from air circulating in said compartment, means for conducting liquid refrigerant into and conducting gaseous refrigerant out of said portions of said evaporator, said means being in constantly open communication with one of said evaporator portions, and thermostatic means for controlling the flow of refrigerant through the other of said evaporator portions of said evaporator construction.

2,168,368
SLUMBER CURLER
Nathan L. Solomon, Brooklyn, N. Y.
Application April 27, 1937, Serial No. 139,283
20 Claims. (Cl. 132—44)



1. A one piece resilient hair curler comprising a flexible body having spaced kerfs to define spaced tines and swingable loop means having stay means adapted to removably receive corresponding portions of said tines.

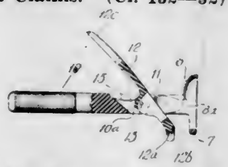
2,168,369
BARRETTE
Nathan L. Solomon, Mount Vernon, N. Y.
Application December 29, 1937, Serial No. 182,317
8 Claims. (Cl. 132—48)



2. A barrette comprising a loop having a pair

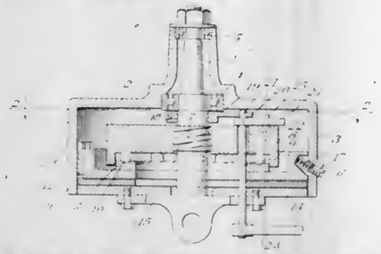
of superimposed resilient arms, a curved portion integrally interconnecting said arms, the upper arm of said pair having a beaded depending terminal portion including cam means, the lower arm of said pair having a convex surface facing towards said upper arm and comprising a keeper having a relatively elongated opening adapted to receive said terminal portion to permit said keeper to interlock with said cam means, and hinge means for normally holding said arms widely diverged in an unlocked relation of said terminal portion and said keeper.

2,168,370
EYELASH CURLER
Nathan L. Solomon, Mount Vernon, N. Y.
Application February 19, 1938, Serial No. 191,447
12 Claims. (Cl. 132—32)



1. An eyelash curler comprising a frame adapted to fit in an eyesocket and adapted to be placed on eyelids, a guard carried by the frame and having a shaped lower edge adapted to contact over the lashes of said lid, a handle carried by said frame, and a pivotally mounted member adapted to contact under the said lashes and to exert upward pressure against the lower edge of the guard and having a groove adapted to receive the lower edge of the guard.

2,168,371
BRAKE
James E. Symons and Jesse W. Symons, Monessen, Pa.
Application January 4, 1938, Serial No. 183,365
2 Claims. (Cl. 188—72)



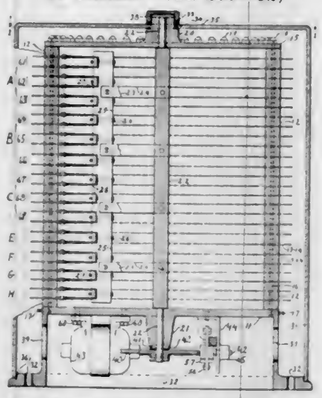
1. A vehicle wheel brake comprising a drum providing a housing having an open end, a hub formed on the drum, a stationary disk plate closing the open end, a pressure plate keyed to the drum for movement toward and away from the stationary plate for cooperation therewith, friction lining mounted to float between the plates, said pressure plate having radially disposed pockets extending at an inclination in the periphery thereof, springs mounted in the pockets, to urge and hold the pressure plate in normal position away from the stationary plate, fixed screw means mounted in the drum, a thrust bearing including a flanged body threaded on the screw means, a ring slidably mounted in the flanged portion of the body, anti-friction balls between the body and ring and the latter being engaged with the pressure plate, and means for threading the body on the screw means for urging the ring against the pressure plate to move the latter to operative position.

2,168,372
CENTRIFUGAL GOVERNOR
Warner T. Tabb, Brooklyn, N. Y., assignor to Eisemann Magneto Corporation, New York, N. Y., a corporation of New York
Application February 26, 1937, Serial No. 127,994
12 Claims. (Cl. 264—3)



1. A centrifugal unit comprising a rotatable shaft, weights pivotally mounted on said shaft and spring means extending transversely through said shaft and aiding movement of said weights under centrifugal action.

2,168,373
SELECTOR MECHANISM FOR ELECTRICAL ROLL CALL OR VOTING APPARATUS
Charles F. Thompson, Dumbarton, Va.
Application June 3, 1936, Serial No. 83,334
10 Claims. (Cl. 200—92)



1. A selector comprising a base member having a recessed housing therein, a multiplicity of superimposed insulating ring members, an end member, means extending through said end member and through each of said superimposed insulated ring members and into the recessed housing of said base member for assembling said ring members in position to form a substantially cylindrical insulated housing, a multiplicity of contact members supported by said ring members and

projecting radially inward within said housing, a rotary shaft member journaled between the recessed housing of said base member and said end member, a wiper rack carried by said rotary shaft, a plurality of contact wipers supported by said wiper rack for establishing wiping electrical connection with said contact members as said shaft is rotated, and means mounted within the recessed housing of said base member for positively controlling said shaft member.

2,168,374
CHEMICAL COMPOUNDS AND PRODUCTS PRODUCED THEREFROM
Clifford J. B. Thor, Chicago, Ill., assignor to The Visking Corporation, Chicago, Ill., a corporation of Virginia
No Drawing. Application July 9, 1936, Serial No. 89,768
21 Claims. (Cl. 260—210)

1. Alkali metal chitin and containing alkali steep liquor.

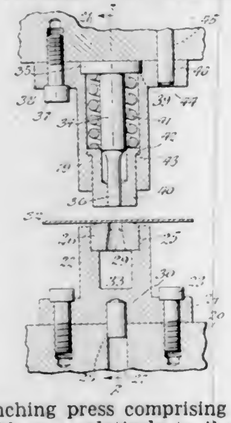
2,168,375
CHITIN XANTHATE
Clifford J. B. Thor, Chicago, Ill., assignor to The Visking Corporation, Chicago, Ill., a corporation of Virginia
No Drawing. Original application July 9, 1936, Serial No. 89,768. Divided and this application September 9, 1937, Serial No. 163,037
20 Claims. (Cl. 260—210)

1. Chitin xanthate.

2,168,376
PROCESS FOR PRODUCING BUTTER
Peter A. van der Meulen and David Levowitz, New Brunswick, N. J.
No Drawing. Application September 21, 1938, Serial No. 230,986
8 Claims. (Cl. 99—119)

1. In the process for producing butter, the steps including mixing cream and water to form a mixture of cream and water, and subjecting the mixture of cream and water at a temperature between 115 and 180 degrees F. to the action of a centrifugal separator adjusted to deliver a product of the consistency of butter, whereby butter is obtained directly from the separator.

2,168,377
PUNCHING AND STRIPPING MECHANISM FOR PRESSES
George F. Wales, Kenmore, N. Y.
Application June 9, 1938, Serial No. 212,775
13 Claims. (Cl. 164—124)



1. A punching press comprising a bed and a ram movable one relatively to the other, a die unit mounted on the bed, and a punch unit mounted on the ram and including a one-piece tubular punch holder secured at its upper end to the ram, a punch arranged within the punch holder and having its lower bit end projecting beyond the punch holder and adapted to cooperate with said die and provided at its upper end with an integral collar which is secured between the underside of the ram and an upwardly facing shoulder on the punch holder, a tubular stripper movable lengthwise between the lower parts of the punch and the punch holder and limited in its downward movement and an ejector spring arranged between said punch and punch holder and operating to project said stripper and engaging its upper end with said collar.

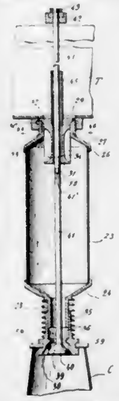
2,168,378
WITHDRAWN

2,168,379
PROCESS FOR PREPARING DERIVATIVES OF HALOGENATED STEROLS AND THE PRODUCTS THUS OBTAINED
John Weijlard and Joseph R. Stevens, Rahway, N. J., assignors to Merck & Co., Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application July 23, 1936, Serial No. 92,148
11 Claims. (Cl. 260—397)

1. A process for replacing the halogen in halogenated sterols with the group

wherein R represents a radical selected from the group consisting of aliphatic and aromatic radicals, which comprises reacting upon the sterol with a mixture of a silver salt and a solution of a salt, selected from the group consisting of alkali metal and alkali earth metal salts of a carboxylic organic acid, in a carboxylic organic acid capable of dissolving its alkali and alkali earth metal salt, and which does not reduce the silver salt.

2,168,380
CONTAINER FILLING APPARATUS
Lewis B. Winton, Greenwich, Conn., assignor to American Sealcone Corporation, New York, N. Y., a corporation of New York
Application October 7, 1937, Serial No. 167,720
8 Claims. (Cl. 226—108)



1. In container filling means, a liquid carrying tank having an outlet, means to discharge the liquid from the tank in successive predetermined measured quantities from the tank, comprising

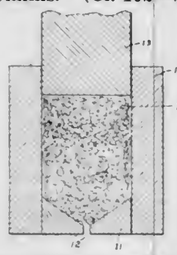
a measuring device including a receptacle of a capacity in excess of the predetermined quantity to be discharged thereby from the tank having an outlet and an inlet in communication with the tank outlet, means to maintain the top of the receptacle in communication with the tank above the level of the liquid therein, valve means movable toward and away from the outlet of the receptacle to control the discharge of liquid from the receptacle, and a valve to control the receptacle inlet adapted to assume inlet closing position by and prior to the movement of the outlet valve means to outlet opening position and to be actuated to inlet opening position by and in successive sequence to the movement of the outlet valve means to outlet closing position, and said inlet valve arranged and operative prior to the actuation of the outlet valve means to outlet opening position to eject through the communication of the receptacle with the tank above the level of the liquid therein a quantity of liquid filled from the tank into the receptacle equal to the excess of the desired predetermined quantity to be discharged from the tank and effect discharge of an accurately measured quantity of liquid from the tank.

2,168,381

LEAD MANUFACTURE

Watson H. Woodford, Bridgeport, Conn., assignor to Remington Arms Company, Inc., a corporation of Delaware

Application June 8, 1932, Serial No. 616,024
23 Claims. (Cl. 102—26)



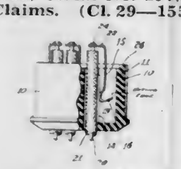
1. A projectile consisting substantially of extended, longitudinally disposed lead fibres.

2,168,382

METHOD OF CONNECTOR ASSEMBLY

Milton Alden, Brockton, Mass.

Original application May 8, 1933, Serial No. 669,826, now Patent No. 2,125,708, dated August 2, 1938. Divided and this application March 22, 1938, Serial No. 197,532
5 Claims. (Cl. 29—155.55)



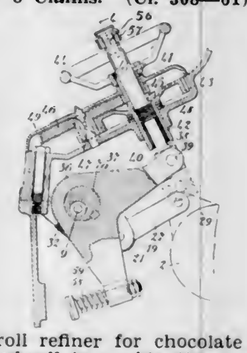
1. A method of assembling a socket body having an aperture extending completely therethrough and also having another bottomed aperture, a contact with an acutely bent projection at one end and a projection extending substantially at right angles at the other end and an electrical wire, including the steps of inserting said wire through said open aperture so that it projects therefrom at one end thereof, partly inserting said contact into said bottomed aperture so that the right angled projection of said contact is in contact with said wire, mechanically fastening together said wire and said right angled projection, pulling said wire so as to move said contact substantially completely into said bottomed aperture, and bending out said acutely bent projection of said contact so that it bites into said socket body and thereby causes said contact to be locked into said aperture.

2,168,383

ROLL REFINER AND THE LIKE

George Ralph Baker and John Currie Paterson, Peterborough, England, assignors to Baker Perkins Company, Inc., Saginaw, Mich.

Application August 15, 1936, Serial No. 96,138
In Germany June 15, 1936
8 Claims. (Cl. 308—61)



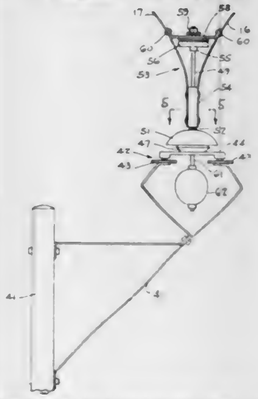
3. In a roll refiner for chocolate or the like having a feed roll, in combination, means for adjusting the feed roll relatively to a co-operating refiner roll to vary the clearance comprising pivotal mountings for the end trunnions of said feed roll, a rock shaft, links between the rock shaft and said mountings, a crank arm on said rock shaft, and an adjusting mechanism operatively connected to said crank arm to impart oscillatory movements to said rock shaft, said mechanism incorporating a shearable element.

2,168,384

FLYING OBJECT AND APPARATUS FOR ITS SIMULATED FLIGHT

William F. Barry, Los Angeles, Calif.

Application August 30, 1937, Serial No. 161,578
5 Claims. (Cl. 40—37)



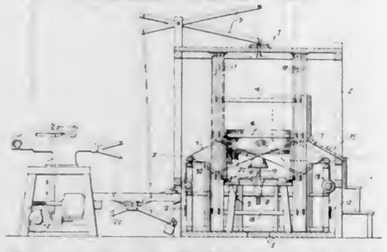
1. In a device of the character described, a circular track comprising a pair of rails, a carrier movable on said track, a supporting rod pivotally mounted on said carrier, a simulated flying object comprising a pair of members, each member conforming to the shape of a body portion and a wing portion of said object, and means to hold said members together and rotatably on said rod.

2,168,385

CIRCULAR LOOM

Imre Baumgarten, Budapest, Hungary

Application March 19, 1937, Serial No. 131,798
In Hungary March 24, 1936
3 Claims. (Cl. 139—13)



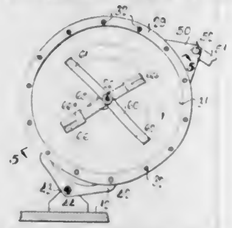
1. In a circular loom for weaving hats and similar structures, wherein an electrically driven shuttle carriage is adapted to travel in an annular path within a warp shed, a pair of leaf springs connected to said shuttle carriage and projecting inwardly into the area bounded by said annular path, a pair of arms articulated at their outer ends to the inner ends of said springs, and a weft shuttle articulated to the inner ends of said arms, said springs tending to close toward each other and bring together the outer ends of the arms articulated thereto and thereby resiliently extend the weft shuttle radially inward so as to press the same continuously inwardly against the fabric as it is being woven.

2,168,386

VISCOSIMETER

John M. Bell, Chester, S. C.

Application August 11, 1936, Serial No. 95,444
4 Claims. (Cl. 265—11)



1. Apparatus for continuously testing the viscosity of liquid comprising a casing, means for forcing a liquid continuously through said casing, a hollow tube mounted in said casing for rotation, said tube having a ball slidably confined therein, means partially closing the ends of the tube, said tube having its sidewalls slotted near its ends, a member mounted for rotation in said casing and having prongs thereon adapted to pass through said slots, means for arresting the rotation of said tube when it has been moved approximately 180 degrees and holding it at an angle inclined to the horizontal, an electrical circuit, and means controlled by the position of said tube while at rest for completing said circuit, and means controlled by said circuit for indicating the viscosity of the liquid passing through said casing.

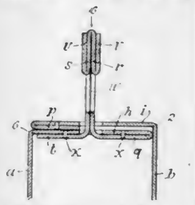
2. Apparatus for testing a fluid as to viscosity comprising a closed casing, means for forcing a fluid continuously through said casing under pressure, means disposed within the casing for periodically taking a viscosity count of the fluid passing through the casing, a movable indicator finger, constantly moving means, means for connecting the movable indicator to the constantly moving means during a viscosity count, means for automatically disconnecting the constantly movable means from the movable means upon termination of a viscosity count.

2,168,387

CARRYING CARTON

Daniel J. Bellin, New York, N. Y.

Application July 14, 1936, Serial No. 90,455
1 Claim. (Cl. 229—52)



A carrying carton formed from a single blank and comprising a rectangular body section having a pair of top panels provided with registering slots, reenforcing strips hinged to the outer edges of said top panels and folded inwardly against the undersurfaces of the latter so as to reenforce the top panels along one longitudinal edge of said slots, end panels formed from two continuous portions of the blank, each of such portions extending uninterruptedly from the inner edge of one top panel to the inner edge of the other top panel and having tabs connected at its ends, said tabs being disconnected from the top panels and reenforcing strips and each tab being secured in flat condition between a top panel and a reenforcing strip and having a length substantially equal to the combined widths of its associated top panel and reenforcing strip, a rectangular handle section integral with the outer edge of one of said reenforcing strips and being foldable to extend outwardly through the slots in said top panels, said handle section including an outer panel having a width substantially equal to the distance between the slot of one of said top panels and the inner edge of such panel and being disposed in flat relation against the undersurface of such panel so as to reenforce the same along the other longitudinal edge of its slot, and fastening means securing the associated reenforcing strip, top panel and outer handle panel within the region defined by the outer ends of the slot of such top panel whereby two permanently secured thicknesses of the material of which the carton is constituted form the longitudinal edge of such slot and the weight of said carton when carried by the handle is distributed along the reenforced longitudinal side edges of such slot.

2,168,388

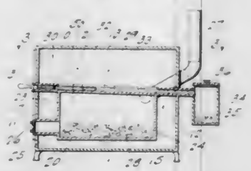
BARBECUE FURNACE

Kenneth E. Bemis, Oakland, Calif.

Application December 24, 1937, Serial No. 181,517
7 Claims. (Cl. 99—259)

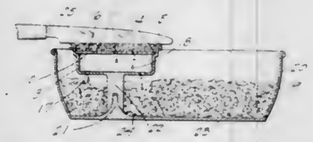
3. A barbecuing furnace comprising, an oven;

a furnace within said oven and heating means within said furnace; a retort within said furnace and having a restricted smoke-escape passage communicating with said oven; said retort being heated by said heating means and delivering



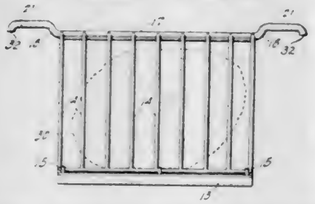
products of distillation directly into said oven through said passage, the area of said passage being restricted to permit escape of smoke and prevent ingress of air into the retort in sufficient amount to support combustion.

2,168,389
APPARATUS FOR MAKING SANDWICHES
Kenneth E. Bemis, Oakland, Calif.
Application January 3, 1938, Serial No. 183,112
3 Claims. (Cl. 107—1)



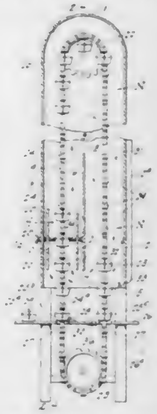
1. A sandwich filler former, in combination, an open-top receiver and a removable bottom therefor provided with combined drain and suction-release passages, and with a handle, and located a predetermined distance below said top; a bottom for said receiver spaced below said removable bottom to form a free space below said removable bottom to permit free drainage of juices from the filler as it is being formed; drain passages formed in said bottom; a pedestal integral with said bottom and forming means for supporting said former in a receptacle.

2,168,390
MEAT CARRIER FOR MEAT COOKING DEVICES
Kenneth E. Bemis, Oakland, Calif.
Application April 19, 1938, Serial No. 202,911
5 Claims. (Cl. 53—5)



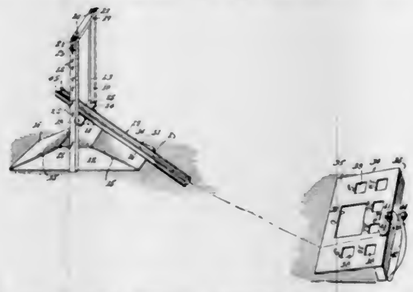
1. A meat carrier comprising two closely related grids to support a cut of meat edgewise when the carrier is suspended, a supporting arm projecting longitudinally from each end of the upper portion of the carrier for interposed straddling suspended support of the carrier, said carrier terminating at its lower end in a receptacle for reception and collection of juices exuded by the meat during cooking.

2,168,391
BAKING AND COOKING OVEN
Kenneth E. Bemis, Oakland, Calif.
Application April 19, 1938, Serial No. 202,912
7 Claims. (Cl. 107—57)



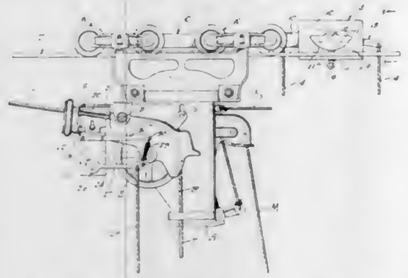
1. An oven comprising a sealed casing having an open bottom and having a height a plurality of times greater than its depth from front to back; transporting means for carrying material to be baked in a vertical circuit through said oven and starting and terminating below the bottom of said oven and forming upward and downward travel paths; heating units arranged on both sides of one of said paths within a limited area to provide a high temperature radiant heat zone; the balance of the interior of said oven obtaining its heat from said units solely by circulation within the oven, a baffle located intermediate the front and back of said oven with its bottom edge located in spaced relation above the bottom of said oven and extending upwardly to a point intermediate the height of the oven and defining on one side thereof said high temperature zone, and inducing circulation of heat within said oven.

2,168,392
PLAY DEVICE
Charles Birch, Chicago, Ill.
Application August 23, 1937, Serial No. 160,423
4 Claims. (Cl. 273—120)



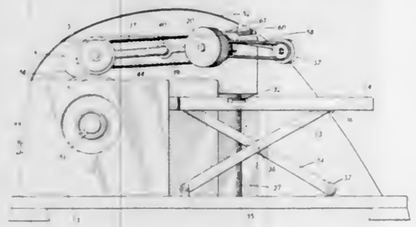
1. In a play device, uprights having a cross member, a bar supported for vertical adjustment from said cross member and a ball guide pivotally mounted on said bar for vertical adjustment therewith and for a lateral pivoting action on its pivot to control the guiding of a ball toward a game board.

2,168,393
HAY CARRIER
George D. Booth, Marshfield, Wis.
Application February 12, 1938, Serial No. 190,169
8 Claims. (Cl. 212—110)



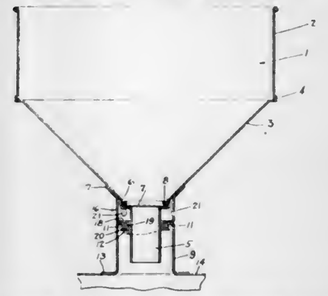
1. A hay carrier of the character described comprising a carriage adapted to run upon a supporting track, cable means suspended from said carriage and including a live sheave rotatably supported on the carriage, a cable reeved about the live sheave and connected with a source of power, and load supporting means raised and lowered by the cable means and effective to cause the load to travel with the carriage, locking means for securing the carriage against movement relative to its track at the loading station, clamping means for preventing movement of the cable relative to the live sheave, said locking means being released and said clamping means being rendered effective when said load supporting means is fully elevated, manually operable means carried by the carriage and cooperable with the track for positively locking the carriage against relative movement in either direction with respect to the track at any point of its travel therealong, and means controllable at will for effecting release of the clamping means at any time.

2,168,394
MACHINE FOR OPENING ENVELOPES
Alfred Montague Coleman, Charles Claude Bater, and George Arthur Lee, London, England
Application February 9, 1938, Serial No. 189,534
In Great Britain June 17, 1937
11 Claims. (Cl. 164—61)



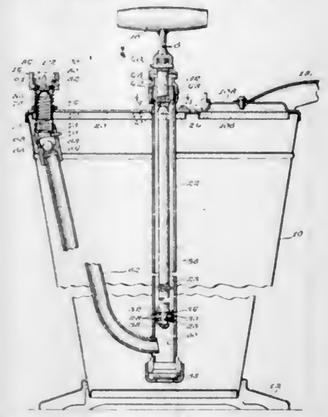
1. An edge-trimming machine including a work-supporting table having means for raising said table comprising an edge guide-plate, a cutting element projecting beyond said guide-plate, roller means above and spaced from said table for feeding work resting on said table toward said guide-plate, roller means for clampingly guiding work past said cutting element, and means for driving said roller means and said means for raising said table.

2,168,395
FUNNEL CONSTRUCTION
Harold A. Damkroger, Minneapolis, Minn., assignor to General Metalware Company, Minneapolis, Minn., a corporation of Delaware
Application February 16, 1938, Serial No. 190,829
3 Claims. (Cl. 226—31)



1. A funnel construction comprising a conical section joined with a spout section, an external sleeve overlying said sections adjacent their junction, said sleeve being formed with a transverse bearing surface having a plurality of spaced areas embossed thereon, and a plurality of outwardly protruding locking fingers on said funnel in a plane spaced from the plane of said bearing surface.

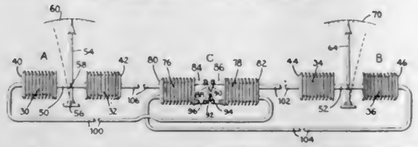
2,168,396
LUBRICATING APPARATUS
Ernest W. Davis, Oak Park, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia
Application June 25, 1937, Serial No. 150,273
9 Claims. (Cl. 221—47.5)



1. In a lubricant dispenser for reloading compressors, means for forcing lubricant from said dispenser under pressure comprising a working cylinder having inlet and outlet ports, a piston for drawing lubricant into said cylinder through said inlet port and forcing the lubricant through said outlet port under pressure, means for venting the said cylinder of lubricant pressure to permit free reciprocation of said piston when said dispenser is not reloading said compressor, a slotted keeper means carried by said cylinder for guiding said piston, means for reciprocating said piston, and a transverse pin member secured to said piston for engaging said keeper on either

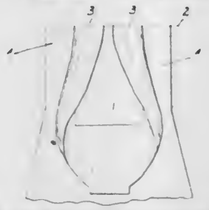
side thereof against axial displacement, whereby said dispenser may be operated and carried from place to place by said reciprocating means.

2,168,397
TEMPERATURE COMPENSATOR
Clarence A. de Giers, Long Island City, N. Y., assignor to The Liquidometer Corporation, Long Island City, N. Y., a corporation of Delaware
Application May 21, 1937, Serial No. 143,949
3 Claims. (Cl. 60—54.5)



1. A movement transmitting apparatus comprising, in combination, a pair of movable devices remote from each other, a hydraulic transmission system comprising two pipe lines interconnecting said devices whereby movement of one device will cause synchronous movement of the other, a Sylphon directly connected in each of said pipe lines and subjected to all changes of pressure in said pipe lines, said Sylphons being in adjacent axial alignment and being operatively interconnected through a pair of pivoted arms and linkage whereby means is provided for preventing offset axial loads on said Sylphons and for preserving accuracy of the apparatus when change of temperature occurs.

2,168,398
METHOD OF SEPARATELY WORKING HEEL PORTIONS ONTO STOCKINGS
Herbert Dietrich, Meinersdorf I. E., Germany
Application November 2, 1937, Serial No. 172,440
In Germany November 5, 1936
1 Claim. (Cl. 66—82)

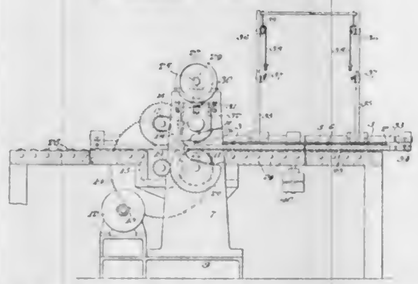


Method of working the heel portions separately onto the high heel portions of a stocking produced in one operation on a flat knitting frame without the heel portions, consisting in separating the high heel and sole portions, transferring the sole portions to the machine working on the heel portions inside near the high heel portions to connect the sole portions with the inner edges of the heel portions and hanging the heel portions during their production in their entirety continually inwardly by means of narrowers to place the meshes of their inner edges gradually on the needles holding the sole portions, which are then knocked over also.

2,168,399
DRY SIZE
Arthur C. Dreshfield, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 17, 1937, Serial No. 175,173
14 Claims. (Cl. 134—21)

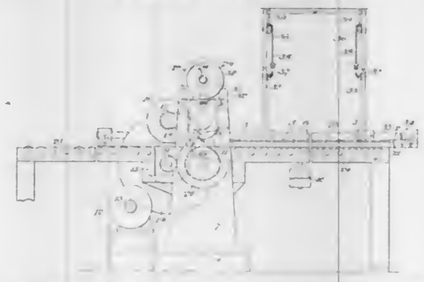
1. A dry size in the form of discrete particles, substantially dry, comprising the saponification product of a paraffin hydrocarbon insoluble resin derived from pine wood and an alkaline material selected from the group consisting of alkali metal hydroxides, ammonium hydroxide and alkali metal carbonates.

2,168,400
METHOD OF SEPARATING BLANKS FROM SHEET MATERIAL
Arthur J. Evers, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application November 18, 1937, Serial No. 175,287
4 Claims. (Cl. 164—18)



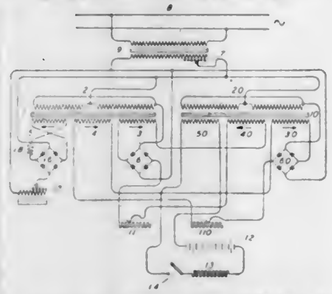
1. The method which comprises associating two elements with interposed sheet material and a frame shaped to a predetermined contour, advancing the two elements with the interposed sheet material and frame through a pressure means sufficient to cause the frame to separate a blank from the sheet material, removing one of the elements, the frame, the blank and the blanked-out material, and returning the other element through the pressure means and the removed element around the pressure means.

2,168,401
APPARATUS FOR SEPARATING BLANKS FROM SHEET MATERIAL
Arthur J. Evers, Westerly, R. I., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application November 18, 1937, Serial No. 175,288
11 Claims. (Cl. 164—19)



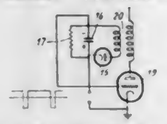
1. In combination, pressure means, unconnected upper and lower pressure plates adapted to receive sheet material between them, a shaped frame adapted to be removably positioned between the sheet material and one of the plates, and means for passing the pressure plates with the sheet material and frame through the pressure means to cause the frame to separate a blank from the sheet material, said upper pressure plate being removable to permit the removal of the shaped frame, the blank and the blanked-out sheet material.

2,168,402
PULSATING ELECTRICAL CONTROL SYSTEM
Alan S. Fitz Gerald, Wynnewood, Pa.
Application January 11, 1938, Serial No. 184,370
18 Claims. (Cl. 172—281)



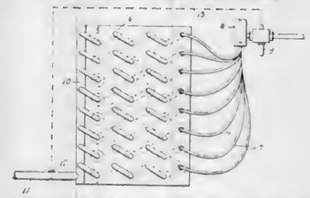
12. An electrical system comprising, an alternating current supply circuit, a first load circuit, a first saturable core device having a direct current saturating winding and an alternating current winding connected to control the energization of said load circuit from said supply circuit, means for energizing said saturating winding with a direct current variable in accordance with the magnetization of the core of said device, the ratio of the magnetomotive forces of said windings being such that, for given supply voltage, connections, and circuit constants, the system has a plurality of conditions of stability furnishing a plurality of different current values in said load circuit in accordance with a residual magnetic condition of the core of said device, a control winding for modifying said residual magnetic condition so as to cause the system to change from one of said conditions of stability to another, a second load circuit, a second saturable core device having a second direct current saturating winding, a second alternating current winding, a second control winding, means connecting the control winding of said first saturable core device in series with the direct current saturating winding of said second saturable core device, means connecting the control winding of said second saturable core device in series with the direct current saturating winding of said first saturable core device so as to cause each of said saturable core devices continuously to oscillate between one condition of stability and another whereby the current in each of said load circuits is caused to pulsate at a frequency less than that of said supply circuit.

2,168,403
SAW-TOOTH WAVE GENERATOR
Max Geiger, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application September 21, 1936, Serial No. 101,781
In Germany September 25, 1935
3 Claims. (Cl. 250—36)



1. An apparatus for producing waves of a serrated wave form comprising a thermionic tube including anode, cathode and control electrodes, means connected with the control electrode of the tube for blocking the tube at predeterminable intervals, an auto-transformer connected in the plate-cathode circuit of the tube, a series electrical circuit comprising the secondary of the auto-transformer, a rectifier and a storage condenser, and a resistance element joined in parallel to said condenser.

2,168,404
REFRIGERANT DISTRIBUTION
Walter A. Grant, Elizabeth, N. J., assignor, by mesne assignments, to Carrier Corporation, Newark, N. J., a corporation of Delaware
Application May 23, 1935, Serial No. 22,949
3 Claims. (Cl. 62—126)



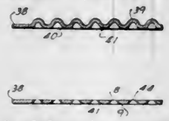
3. A refrigerant distributor comprising a refrigerant supply header and a plurality of conduits extending within said header, each of said conduits being adapted to supply refrigerant from within the header to a different evaporator circuit without the header, each conduit being provided with a plurality of openings therein within said header, and each of said conduits being inclined at an angle of approximately forty-five degrees to the horizontal when said header is in a first predetermined operating position, whereby said header may be rotated ninety degrees to a second predetermined operating position without changing the height of said openings above a datum level and without affecting the distribution of refrigerant to said different evaporator circuits.

2,168,405
TOOL
Jacob R. Haas, Chicago, Ill.
Application March 26, 1938, Serial No. 198,169
8 Claims. (Cl. 145—50)



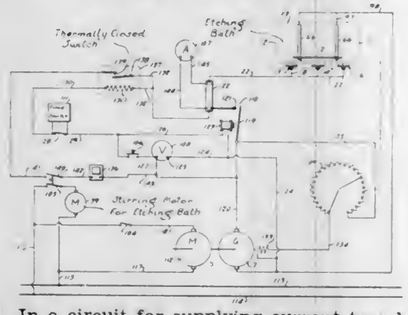
1. A tool including a handle of elongated form and having opposite open sides, a plurality of elongated tool elements each provided with a longitudinally extensive slot and mounted on pin means extending through the slots thereof between opposite sides of the handle intermediate the ends of the latter, said handle having a passage at one end and through which said tool elements may be projected from said handle into work-engaging position, said tool elements being movable radially of said pin means for projection through said passage into work-engaging position, pin means arranged near said passage for engagement with a tool element projected as aforesaid to prevent movement of the same relative to the handle, and means in the form of a loop slidable in the plane of the handle around said tool elements to block pivotal movement of the same relative to said first-mentioned pin means.

2,168,406
METHOD OF MAKING CUTTING BLADES
Artie B. Harris, Kansas City, Mo.
Application July 31, 1937, Serial No. 156,720
4 Claims. (Cl. 76—104)



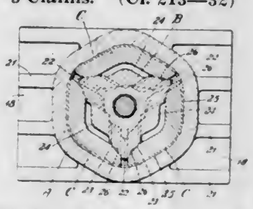
1. The method of forming toothed cutters of a dry shaver including offsetting portions of the metal completely from one side of a blank, removing the offset portions from the other side of the blank to a point flush with the surface of the blank to form slots in the blank having cutting edges in a plane of said blank, and bending the blank transversely of said slots to form the cutter.

2,168,407
APPARATUS FOR ETCHING PLATES
Louis E. Holland, Kansas City, Mo.
Application September 3, 1935, Serial No. 38,926
4 Claims. (Cl. 177—311)



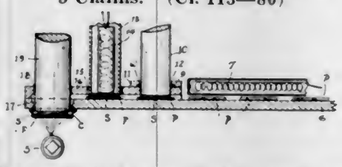
1. In a circuit for supplying current to a load connected therewith, a current supply connected with said circuit, a switch connected in the circuit between the current supply and the load, a signal, a signal circuit connecting the signal with the current supply circuit for supplying a signal voltage when the switch is opened, a slowly opening switch in the signal circuit, and common means for closing the main switch and the signal switch and for effecting opening of the main switch after a predetermined time interval and permitting delayed opening of the signal switch.

2,168,408
FRICTION SHOCK-ABSORBING MECHANISM
George A. Johnson, Chicago, and Stacy B. Haseltine, Glen Ellyn, Ill., assignors to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application April 2, 1936, Serial No. 72,248
5 Claims. (Cl. 213—32)



1. In a friction shock absorbing mechanism, the combination with a casing having a friction shell section provided with opposed interior friction surfaces of a plurality of friction shoes having sliding frictional engagement respectively with the friction surfaces of the casing; means reacting between the casing and the inner ends of the shoes yieldingly resisting movement of said shoes inwardly of the casing; and central wedge means having laterally, outwardly converging, wedge faces inclined lengthwise of the mechanism with respect to said friction surfaces and engaged between adjacent shoes for wedging said adjacent shoes apart and radially outwardly with respect to the longitudinal axis of the mechanism.

2,168,409
METHOD OF ASSEMBLING RECEPTACLE CLOSURE CAPS
John A. Johnson, Woodhaven, N. Y.
Application February 1, 1937, Serial No. 123,508
5 Claims. (Cl. 113—80)



1. The method of assembling closure caps with a sealing pad having a center spot on its exposed face, which comprises providing closure caps having an adhesive therein, heating sealing pads, applying a spot having an adhesive surface non-viscous at normal temperature and adapted to be rendered viscous when subjected to an elevated temperature centrally of and with the adhesive surface thereof in contact with a heated pad, the heat of the pad rendering the adhesive surface viscous and causing the spot to adhere to the pad, and assembling the heated pad with the spot applied thereto in a closure cap with the pad in contact with the adhesive in said closure cap to secure the pad and spot to the closure cap.

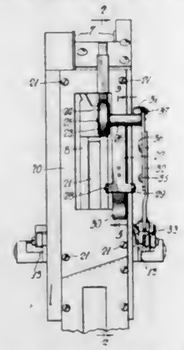
2,168,410
SMOKER'S DRY-PIPE PIN
Ralph G. Kaufman, New York, N. Y.
Application April 11, 1938, Serial No. 201,287
4 Claims. (Cl. 131—208)



1. A smoker's dry pipe pin, comprising a length of wire having its ends formed into a pair of diverging fingers engageable in the smoke passage at the bowl end of the stem bit of a pipe to hold the device in position, a cylindrical filter member for engaging in the smoke passage at the bowl section of the pipe stem, and gripping elements formed in said wire and engaging said filter for holding said filter.

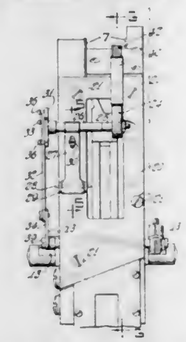
2,168,411
METHOD AND APPARATUS TO PREVENT ADHESION OF TYPE METAL TO SPACES OF LINE-CASTING MACHINES
George D. Kellar, Jamaica, N. Y.
Application March 23, 1938, Serial No. 197,576
15 Claims. (Cl. 199—62)

1. In a device of the character described for wiping a space sleeve and applying lubricant thereto, a positively operated wiper means for connecting said wiper to the space key mechanism of a type line-casting machine, said wiper adapted to be actuated upon movement of the



space key mechanism to wipe the space sleeve while it is in the space magazine and before it drops into the space channel for delivery to the matrix line in the assembler, and means for supplying lubricant to the wiper only each time it is actuated.

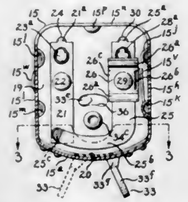
2,168,412
APPARATUS TO PREVENT ADHESION OF TYPE METAL TO SPACES OF LINE-CASTING MACHINES
George D. Kellar, Jamaica, N. Y.
Application August 13, 1938, Serial No. 224,662
8 Claims. (Cl. 199—62)



1. In a device of the character described, a wiper for a space of a line-casting machine, a pivoted arm for supporting said wiper so that the latter may be moved toward and away from the space during the wiping operation, limiting means for limiting the inward and outward movement of said arm, and means for pivoting said arm so that it normally moves by gravity only toward its forward position.

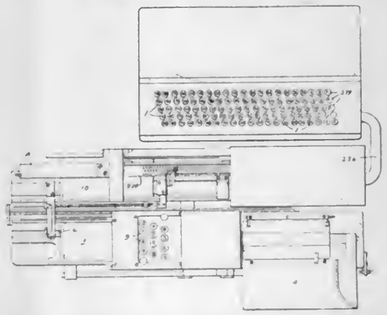
2,168,413
ELECTRIC SWITCH
Alvin W. Krieger, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application December 10, 1935, Serial No. 53,748
6 Claims. (Cl. 200—153)

1. In an electric switch, in combination, a base comprising a flat punched plate of insulating material, a pair of wiring terminal elements positioned upon the lower surface of said base, a contact and a contactor positioned upon the upper surface of said base and to which said wiring terminal elements are respectively attached, said contactor being normally biased into engagement with said contact, a punched and stamped sheet metal operating lever pivotally supported upon the lower surface of said base and having a handle portion projecting beyond one end of the latter, said base having an opening formed therein and said lever having an integral lug engageable with the respective end walls of said opening to limit the oscillatory movements of said



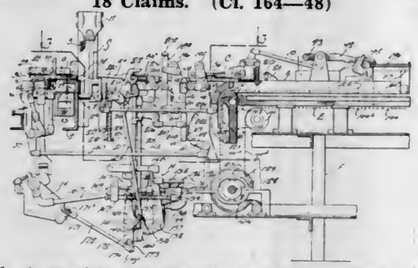
lever, said base having another opening formed therein, an insulating member movable with respect to said last mentioned opening, said insulating member being adapted in one position thereof to permit movement of said contactor under its bias into engagement with said contact, said insulating member when moved to another position thereof being adapted to move said contactor against its bias out of engagement with said contact, and said lever having an operative connection with said insulating member to provide for movement of the latter from each position thereof to the other upon corresponding movements of said lever.

2,168,414
RATE EXTENSION PUNCH
Clair D. Lake, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 28, 1937, Serial No. 182,058
16 Claims. (Cl. 164—113)



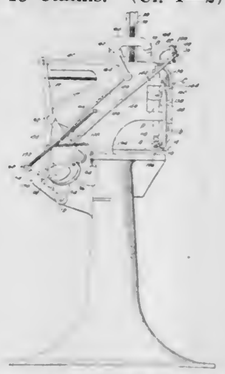
1. In a perforating machine, the combination of a plurality of punches, selector magnets for said punches, a series of columnar contacts, a series of selector circuits, differentially adjustable means in said circuits intermediate the magnets and the contacts, and means controlled by a single manipulative means to simultaneously adjust a plurality of said differentially adjustable means simultaneously to connect a plurality of the magnets to predetermined columnar contacts.

2,168,415
CUTTING MACHINE
Alfred Laukhuff, Milwaukee, Wis., assignor to Alfa Machine Company, Milwaukee, Wis., a corporation of Wisconsin
Application October 29, 1934, Serial No. 750,410
18 Claims. (Cl. 164—48)



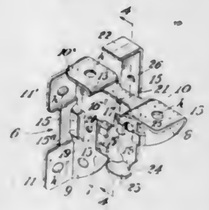
1. A machine of the character described comprising a cutter, a feed carriage movable toward and from the cutter, grippers on the carriage for engaging the material to be cut and drawing the same past the cutter, feed clamps on the forward side of the cutter and including upper and lower clamping plates movable toward and away from each other and engageable with the material to hold the same in position for engagement by the grippers of the carriage and while it is being cut, and means for co-ordinately actuating the carriage, carriage grippers, feed clamps and cutter whereby to cause the grippers of the carriage to release and the feed clamps to clamp the material at the completion of the outstroke of the carriage and thereupon cause the cutter to operate and also to cause the feed clamps to release and the carriage grippers to grip the material at the completion of each instroke of the carriage, said carriage being moved at a substantially constant rate of speed.

2,168,416
FASTENER-ATTACHING MACHINE
Harry Levine, Brooklyn, N. Y., assignor to American Eyelet Co., Inc., New York, N. Y., a corporation of New York
Application February 19, 1938, Serial No. 191,392
15 Claims. (Cl. 1—2)



1. Anvil mechanism for a fastener attaching machine, said machine handling H-shaped fasteners having fastener arms projecting from the bar of the H and tangs bent at the ends of the H, said anvil mechanism comprising relatively movable curling and flattening parts, said curling part having a pair of slots cut therethrough to receive the tangs, the ends of said slots being sloped to form camming surfaces for curling the tangs, the upper large end of the slots being long enough to receive the tangs before curling the same, the flattening part including a pair of male elements slidably receivable in the lower small ends of the slots of the curling part, said male elements being shorter than the spacing of the tangs prior to curling, but long enough to engage the tangs as they are curled by the sloping ends of the slots, and means yieldably urging said curling part away from the flattening part.

2,168,417
HEAD-BAR BRACKET FOR VENETIAN BLINDS
Hans K. Lorentzen, Montclair, N. J.
Application May 17, 1938, Serial No. 208,339
Renewed March 22, 1939
10 Claims. (Cl. 156—17)



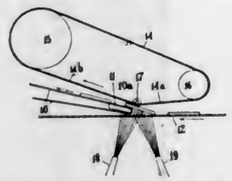
1. A bracket comprising a planar body of sheet metal having two diverging legs perpendicular to each other; wings integral with and defining the outer boundaries of the legs, the wings extending perpendicularly to the body on the same side thereof; a guideway formed in each leg; and a clamp member insertable into and removable from either of the guideways.

2,168,418
PHOTOGRAPHIC PLATE HOLDER
Ernest du Bois Lukis, New York, N. Y., assignor to E. Leitz, Inc., a corporation of New York
Application January 21, 1938, Serial No. 186,066
1 Claim. (Cl. 88—24)



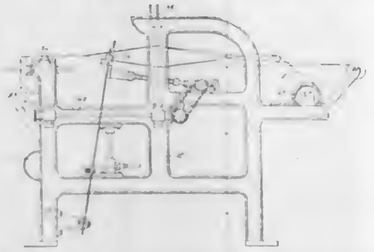
A photographic film plate holder comprising a relatively thin flat rectangular frame having an exposure opening through the same, a hinged member within said frame being swingably moved into a relatively open position to admit a piece of film to be placed over the exposure opening in the frame, said member being swingably moved into a relatively closed position to contact said film to flatten the same without scratching that part of the film which covers the said opening, said member being larger than the film so as to overlap the same, a removable top cover to keep the said member in contacting relation with the film and for closing the frame lighttight from above and a removable bottom cover for closing the frame lighttight from below, said covers being countersunk within the said frame.

2,168,419
CONVEYER
John Currie Paterson, Peterborough, England, assignor to Baker Perkins Company Inc., Saginaw, Mich.
Application March 14, 1938, Serial No. 195,741
In Great Britain March 25, 1937
10 Claims. (Cl. 198—20)



1. In the transporting of articles of the character described transferring the articles from one conveyer to another surface by lifting the articles from the first conveyer by an air blast and supporting them thereby against the under side of a superposed travelling surface which delivers them to the second surface.

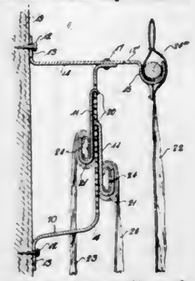
2,168,420
LOOM
Emil R. Pedrazzo, West New York, N. J., assignor to Magic Automatic Loom Co., New York, N. Y., a partnership composed of Charles C. Hertel, Otto C. Worf, and Emil R. Pedrazzo
Application August 21, 1937, Serial No. 160,329
19 Claims. (Cl. 139—126)



1. In a loom, a plurality of means for guiding and positioning a plurality of filling threads, a reed frame, a thread carrier movable across the reed frame, means on the reed frame for engaging one of said threads and positioning the thread in the path of movement of the thread carrier, and selector means for aligning any one of said thread guiding and said positioning means with the thread engaging means on the reed frame.

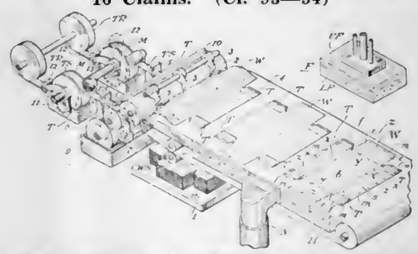
2,168,421
SUPPORT
Arthur T. Reynolds, Brooklyn, N. Y., and William F. Todé, Radburn-Fairlawn, N. J.
Application June 4, 1938, Serial No. 211,896
6 Claims. (Cl. 248—265)

6. A bracket type support for drapery and curtain rods comprising a substantially vertical strip portion having a plurality of spaced, substantially horizontal apertures therein, means to attach said strip portion in spaced relation to a wall surface and a plurality of rod supporting members each having a hook adapted to be inserted in one of said apertures, whereby a plurality of rods may be supported at one end on a single bracket by inserting the hooks of a plurality of rod supporting members into said apertures with the rod



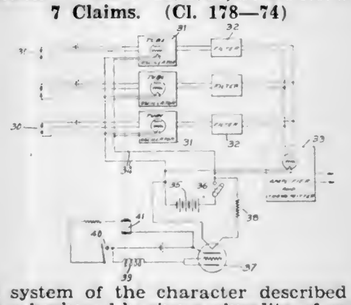
supporting members depending from said apertures on both sides of said strip portion.

2,168,422
METHOD OF MAKING BOXES
Ernest G. Rider, Philadelphia, Pa., assignor to Stokes and Smith Company, Philadelphia, Pa., a corporation of Pennsylvania
Application March 12, 1937, Serial No. 130,435
16 Claims. (Cl. 93—54)



1. The method of making a box which comprises subjecting ungummed sheet material to moisture to render it plastic, and, while the sheet material is plastic, adhesively applying it to a box blank to embrace the top edges of adjoining panels of the blank.

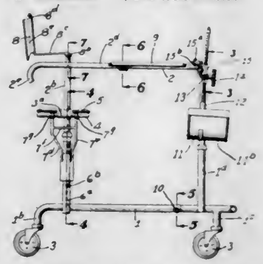
2,168,423
KEYBOARD LOCKING MEANS
Kurt R. Schneider and Clyde J. Fitch, Endicott, N. Y., assignors to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 11, 1937, Serial No. 174,018
7 Claims. (Cl. 178—74)



1. A system of the character described comprising a keyboard having a plurality of operable key bars, key bar locking means comprising a positionable bar, means to maintain the said bar in one position engaging the key bars and thereby preventing them from being operated, control

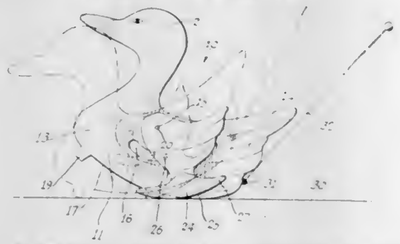
means, and means adapted to be energized for a predetermined time interval for rendering the control means effective to control the positioning of the said bar thereby releasing the said key bars.

2,168,424
INVALID WALKER
Eugene C. Skinner, San Diego, and Rudolf Lawatch, Los Angeles, Calif.
Application January 7, 1936, Serial No. 58,006
3 Claims. (Cl. 155—22)



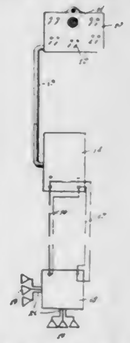
1. In an invalid walker, a substantially rectangular base frame closed at one end and open at the other, castor wheels upon which said base frame is mounted at its four corners, a substantially rectangular adjustable frame closed at one end and open at the other telescopically and adjustably mounted on said base frame, a seat pivotally mounted at one side of the open end of said base frame and a support on said base frame for the free side of said seat, a seat back rest readily removably mounted at either side of the open end of said adjustable frame backwardly of said seat, a tray shiftably and readily removably mounted on said adjustable frame forwardly of said seat, a leg rest adjustably and transversely shiftably mounted on the closed end of said adjustable frame, and a gear and rack means for raising and lowering said leg rest.

2,168,425
WALKING ANIMAL TOY
Robert Sleeseman, Saginaw, Mich., assignor of fifty per cent to Walter F. Klonowski, Saginaw, Mich.
Application July 14, 1938, Serial No. 219,200
9 Claims. (Cl. 46—149)



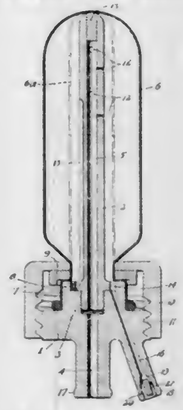
1. A walking animal toy comprising a body formed with a through opening, and an arcuate slot concentric about and disposed below said opening, a pin within said opening and projecting beyond said body on opposite sides, a pair of similar, parallel members on the projecting ends of said pin, rotatable about the axis of said pin, and disposed on opposite sides of said body, and a member extending through said slot and interconnecting said members, said members having curved undersurfaces, a vertical projection of the pin being forward of the point of tangency of said curved undersurfaces with a flat surface on which the toy is placed, and said curved undersurfaces being such that the distance from the pin to the back portion of the curved undersurfaces, is substantially greater than the corresponding distance of the pin to the forward portion of said undersurfaces.

2,168,426
TRANSMITTING AND DISTRIBUTING AUDIO CURRENT ON AN AMPLIFIED LOUDSPEAKER SYSTEM
George M. Marr, Woodhaven, N. Y.
Application October 9, 1937, Serial No. 168,159
5 Claims. (Cl. 179—1)



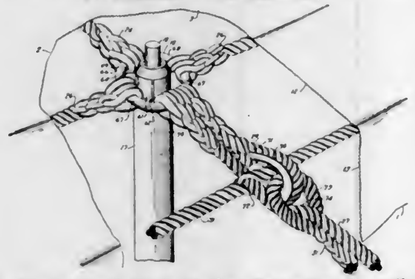
1. In an electrical signaling device, the combination of, a main feeder circuit, a dual feeder circuit disposed remote from the first said circuit; both of said circuits being normally "on" and either one being adapted to effectively transmit the full energy required for the operation of the signaling device as connected to both of said circuits.

2,168,427
THERMAL DILATOR
Walter N. McConkey, Lima, Ohio
Application May 25, 1937, Serial No. 144,572
3 Claims. (Cl. 128—344)



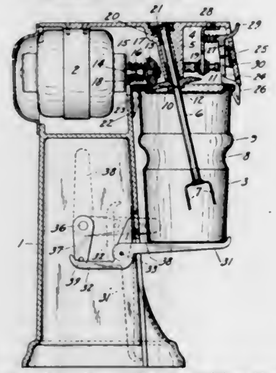
1. A device of the character described comprising a body or support member having an elongated core element projecting therefrom, the body member and core element having intercommunicating bores forming a circulation passage for treatment fluid, an expansible envelope surrounding and enclosing the core element, means of communication between the core bore and the interior of the envelope, another bore in the body member communicating with the interior of the envelope and forming another circulation passage for treatment fluid, said bores providing for return circulation of treatment fluid, and valve means in the bore in the body member serving as the outlet circulation passage, the valve means including a valve member adjustably threaded into the discharge end of the outlet passage.

2,168,428
TENT
Wilbur Lawrence Mellor, Kansas City, Mo., assignor to Baker-Lockwood Mfg. Company, Inc., Kansas City, Mo., a corporation of Missouri
Application July 16, 1937, Serial No. 153,964
17 Claims. (Cl. 135—15)



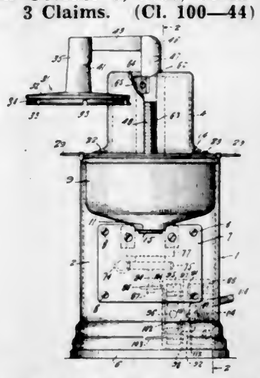
1. In a roped tent of the character described, a pole ring including a sleeve-like hub having a seating portion for engaging the end of a tent pole and having a larger inner diameter than the diameter of the pin on the tent pole to facilitate entrance of the pin in erecting the tent, and a flange on said hub having an opening substantially corresponding to the diameter of the tent pin to eliminate leakage through said hub.

2,168,429
DRINK MIXER
Louis Myers, Galesburg, Ill.
Application September 24, 1936, Serial No. 102,365
Renewed January 11, 1939
7 Claims. (Cl. 259—106)



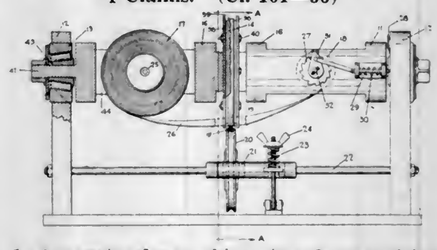
1. In a drink mixer, the combination with an inclined stirrer, tending to produce in fluids being mixed a diagonally upward motion, of a cup having a portion of its lateral wall pressed inwardly to form a transverse internal rib to assist in the mixing of materials placed in the cup.

2,168,430
JUICE EXTRACTOR
Louis Myers, Galesburg, Ill.
Application October 6, 1934, Serial No. 747,228
3 Claims. (Cl. 100—44)



3. In a juice extractor, a support; a receptacle projecting laterally therefrom, said receptacle having an inclined bottom provided with a discharge outlet at its lowest portion; a cup-like member fitting in and conforming to said receptacle and having a discharge outlet in alignment with the discharge opening in the bottom of the receptacle, said cup-like member having supporting units projecting upwardly therefrom to support the bottom of a second cup-like member, the first mentioned cup-like member also having upwardly projecting radial blades, circumferentially spaced, about the discharge opening; a second cup-like member located within the first cup-like member and having, in its bottom, radial slots, circumferentially arranged, and positioned to slide over the blades, the bottom of the second cup-like member being adapted to rest on and be supported by the upwardly extending supports projecting from the bottom of the first mentioned cup-like member; and a reciprocable plunger adapted to register with and reciprocate in the second cup-like member to force fruit against the upwardly projecting blades and squeeze the juice from the fruit.

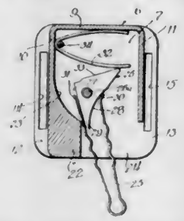
2,168,431
APPARATUS FOR MARKING STRANDS
John W. Olson, Hastings on Hudson, N. Y., assignor to Anaconda Wire and Cable Company, New York, N. Y., a corporation of Delaware
Application September 28, 1937, Serial No. 166,079
4 Claims. (Cl. 101—36)



1. Apparatus for marking strands comprising a rotatable disc bearing raised marking indicia and a co-operating idler pulley, said apparatus being actuated by drawing the strand to be marked between said marking disc and said idler pulley in a direction normal to the axis of rotation of said disc and means actuated by the rotation of said

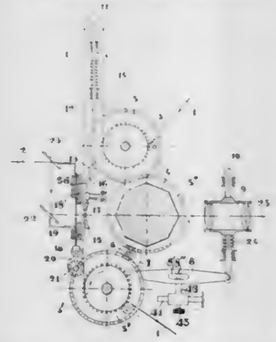
disc effective to move a pigmented strip across the face of the marking indicia in a direction parallel to the axis of rotation of said disc while said strip is not in contact with said strand, said pigmented strip being passed between spools whose axes are normal to the axis of rotation of said disc.

2,168,432
HAIRPIN OPENER
Sigval E. Ordal, Chicago, Ill.
Application June 13, 1938, Serial No. 213,354
12 Claims. (Cl. 132—1)



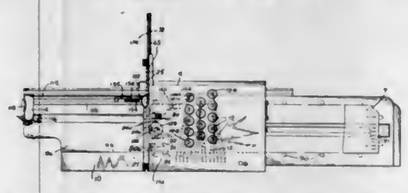
1. A hairpin opener comprising a spreader adapted to engage between the legs of a hairpin to spread said legs apart, a guide disposed adjacent said spreader and cooperable with the hairpin in a manner to guide the legs of the hairpin over opposite sides of said spreader, means pivotally mounting said spreader, and means urging the portion of the spreader which engages between the legs of the hairpin yieldingly against said guide.

2,168,433
CINEMATOGRAPHICAL PROJECTING APPARATUS WITH OPTICAL COMPENSATION
Pietro Parvopassu, Rome, Italy
Application February 13, 1937, Serial No. 125,602
In Italy February 17, 1936
5 Claims. (Cl. 88—16.8)



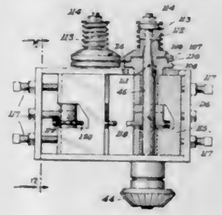
1. An optical compensating device for a cinematographic projector wherein a film moves continuously with a uniform speed, said device comprising a rotary compensating prism, a movable cylindrical lens interposed between the film and said prism, a movable rod, a roller carried by one end of said rod, a loop of the film passing over and engaging said roller, said loop having a predetermined number of photograms, a cam carried by the other end of said rod, means connected with said lens for moving it in the direction of the optical axis of the projector, said cam engaging said means, and resilient means engaging said rod, a variation in the size of said loop moving said rod and causing it to actuate said cam and the first-mentioned means to vary the distance between said lens and the film, whereby the actual height of the photogram on the screen is varied depending upon a variation in the size of said loop.

2,168,434
MACHINE OPERATING ON RECORD CARDS
Edward J. Von Pein, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 7, 1937, Serial No. 178,486
23 Claims. (Cl. 164—112)



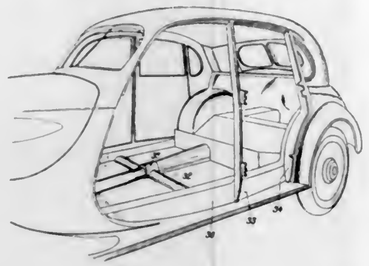
1. In a machine operating on records on which designations may be recorded and which records are successively locatable at an operating station; the combination of recording/verifying means operable alternatively to record or verify the designations of a record at said station, means to select either verifying or recording operations to be performed by the recording/verifying means on the latter record, and designation-selecting means to select the designations to be verified or recorded by the recording/verifying means.

2,168,435
MACHINE FOR RECONDITIONING BALE BANDS, BOX STRAPPINGS, AND THE LIKE
Austin Bond, New York, N. Y.
Application April 23, 1937, Serial No. 138,519
2 Claims. (Cl. 153—54)



1. In a machine for reconditioning used bale band and the like, edge straightening rolls positioned to operate on opposite edges of the bale band or the like, said rolls consisting each of telescopically related roll elements, one having a cylindrical portion for abutting the extreme edge of the bale band and an annular flange for supporting engagement with one face of the band adjoining said edge, the companion roll element being telescopically engaged over the cylindrical portion of said first roll element and engaging the opposite face of the band adjoining said edge, spring means yieldingly forcing said telescopically related roll elements together to cause them to yieldingly grip the opposite faces of the band along the edge thereof and means for positively rotating said rolls to thereby cause the same to smooth and iron out the opposite edge portions of the strip.

2,168,436
CHASSIS FRAME FOR VEHICLES
Franz Bruss, Lichtenberg, near Berlin, Germany, assignor to the firm Edward G. Budd Manufacturing Company, Philadelphia, Pa.
Application July 30, 1937, Serial No. 156,508
In Germany August 15, 1936
5 Claims. (Cl. 280—106)



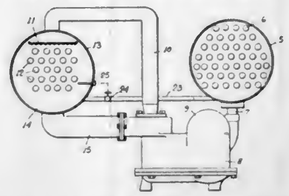
1. In a vehicle frame comprising a box sectional sill and a second sill member arranged at an angle and connected to said first named sill, said second sill member extending through and being fastened in an opening of one wall of said first sill, a bracket arranged within and connected to said first sill, said bracket forming a support for that part of said second sill member extending into the interior of said first sill.

2,168,437
INJECTION DEVICE
Kenneth O. Buercklin, St. Louis, Mo.
Application April 10, 1935, Serial No. 15,506
5 Claims. (Cl. 128—218)



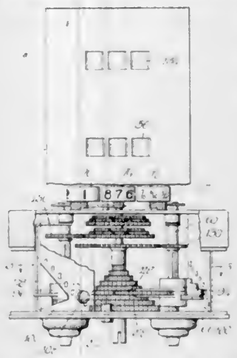
5. An ampoule comprising, a cylinder having impervious walls, one end of said cylinder having a resilient puncturable closure, a charge of compressed gas and a charge of medicament confined in the respective ends of said cylinder, a soft rubber plug between said charges arranged to slide longitudinally of said cylinder in sealing relation with the interior thereof, said compressed gas charge being sufficient without extrinsic energy to completely eject the medicament charge from the cylinder when the confining pressure on the latter is released.

2,168,438
REFRIGERANT CIRCULATION
Willis H. Carrier, Essex Fells, N. J., assignor, by mesne assignments, to Carrier Corporation, Newark, N. J., a corporation of Delaware
Application April 8, 1936, Serial No. 73,219
10 Claims. (Cl. 62—126)



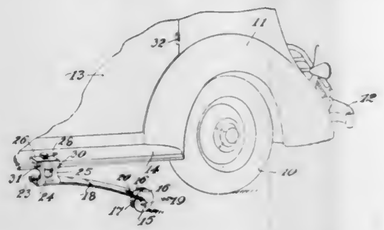
1. A method of operating a refrigerating system including an evaporator and a condenser, which consists in passing refrigerant from the condenser to the evaporator through a first path, causing refrigerant passed through said first path to entrain by ejector action other refrigerant withdrawn from the evaporator, whereby the other refrigerant is supplied to the evaporator with refrigerant passing from the condenser, and passing refrigerant from the condenser to the evaporator through a second path whenever the pressure in the evaporator drops below a predetermined point.

2,168,439
SAFETY LOCKING MEANS FOR SPEED VARIATING MECHANISM OF LIQUID DISPENSING APPARATUS
John H. Chaplin, West Hartford, Conn., assignor, by mesne assignments, to The Wayne Pump Company, Fort Wayne, Ind., a corporation of Maryland
Application June 5, 1937, Serial No. 146,677
4 Claims. (Cl. 74—348)



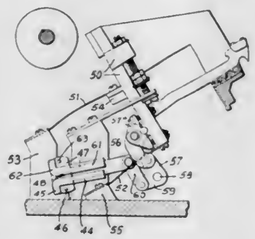
1. In a device of the character described, the combination of a driving shaft, a driven shaft, said driving shaft having concentrically arranged gear teeth thereon, a supplementary shaft disposed adjacent said driving and driven shafts, connecting means between said supplementary shaft and said driven shaft, shiftable means on said supplementary shaft having means engaging said gear teeth, a driven gear on said supplementary shaft, a calibrated range plate disposed adjacent said shiftable means, latching means on said shiftable means for locking said supplementary shaft, and means cooperating with said range plate and shiftable means for selectively rendering said latching means inoperative.

2,168,440
ANTISKID DEVICE FOR AUTOMOBILES
Robert M. Dole, Portland, Maine
Application April 2, 1937, Serial No. 134,473
6 Claims. (Cl. 188—5)



1. An anti-skid device including a wheel having sharp edges to run upon the ground, a clamp adapted to engage the running board of an automobile to hold the wheel to the ground, a wide flat spring bar fast to the clamp adapted to extend rearwardly and toward the ground, and journals at the rear end of the bar to carry the wheel so that the thrust of the spring upon the running board holds the wheel to the ground.

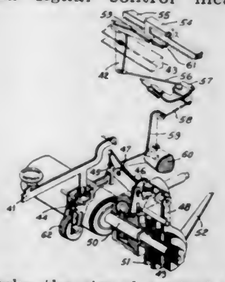
2,168,441
TELETYPEWRITER
Charles R. Doty, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application December 12, 1936, Serial No. 115,463
4 Claims. (Cl. 197—74)



2. A typewriter of the character described comprising, in combination, a type basket, common operating means cooperatively connected to the type basket, a plurality of power operated devices, and individually and independently operated control means associated with each of said devices for controlling the operation of the said common means to effect different positioning of the type basket.

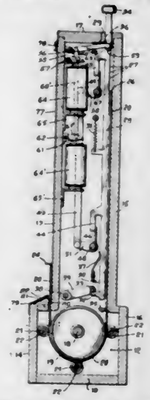
2,168,442
SIGNAL TRANSMITTING MEANS
Clyde James Fitch, Endicott, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application November 11, 1937, Serial No. 174,019
4 Claims. (Cl. 178—81)

1. In a device of the character described, an operable keybar and associated controlled mechanism, a power operated unit controlled by the keybar to operate the said controlled mechanism, an auxiliary power operated unit, means whereby the said auxiliary unit is controlled by the said keybar, and signal control means including



means whereby the signal control means is controlled by said auxiliary power operated unit.

2,168,443
INDICATING DEVICE
Reynold B. Johnson, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application January 3, 1936, Serial No. 57,341
14 Claims. (Cl. 177—311)

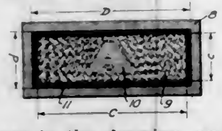


1. In a counting device, an indicating marker with a fixed datum line, a tape marked with graduations, a block on said tape, means for supporting said tape so that it is free for movement in a straight line and so that a certain graduation on said tape registers with said fixed datum line on said marker, a manipulative key and a keystem attached thereto, said keystem having teeth cooperating with the block on said tape to adjust it one or more steps according to the extent of operation of the key and the number of times the key is operated so that a selected graduation on the tape registers with said datum line, and means for restoring said key and keystem.

2,168,444
PROCESS OF PRODUCING PRINTING PLATES
Elsmore D. Lake, Oakland, Calif.
Application May 25, 1936, Serial No. 81,620
2 Claims. (Cl. 95—5.1)

1. The method of multicolor printing to reproduce an original image comprising a plurality of distinct differently-colored component field areas and an area of another color bordering one of said field areas, which consists in preparing

a single master drawing of said image and, in doing so, forming the field areas of the drawing in primary colors irrespective of the colors in the original and forming the border in black, photographing the master drawing through each of a set of color filters separately and in succession to produce a plurality of separation negatives, said set having the same number of filters as there



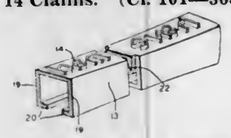
are field areas in the drawing, and each of said filters being selected to record said border and only one of said field areas, photographically reproducing each negative upon a separate printing plate, etching the plates, and printing in superimposition each plate with an ink corresponding in color to that of the field area of the original image which such plate represents.

2,168,445
ARTICLE OF MANUFACTURE
John C. MacIldowie, Nashua, N. H., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application March 7, 1936, Serial No. 67,583
6 Claims. (Cl. 35—68)



1. A blackboard comprising a base including a strongly compressed and hardened intimate mixture of asbestos fibres and a hydraulic cement, an adhered facing layer provided over its exterior with a writing surface, and an agent preventing migration of ingredients from the base to the facing, the said agent being impenetrable to water-soluble material of the base.

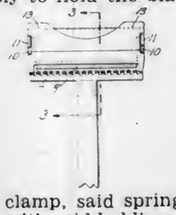
2,168,446
PRINTING MACHINE
Robert E. Paris, New York, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application February 28, 1936, Serial No. 66,161
14 Claims. (Cl. 101—368)



1. The combination with a supporting means of a plurality of printing strips secured thereto and each formed with a pair of anchoring elements and a plurality of printing characters so arranged that the first printing characters of all strips are equi-distant from their adjacent anchoring elements and that the last printing characters of all strips are equi-distant from their adjacent anchoring elements, and means intermediate the ends of said strips for keeping the strips straight.

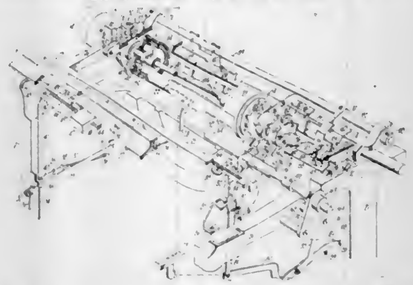
2,168,447
SAFETY RAZOR
Morehead Patterson, New York, N. Y., assignor to Durham Duplex Razor Company, a corporation of New York
Application December 31, 1935, Serial No. 56,882
4 Claims. (Cl. 30—62)

1. The combination with a razor frame fabricated throughout of substantially rigid material, and having a blade seat provided at its ends with rigid clamp-holding surfaces; of a blade; and a normally flat clamping member having at its ends integral spring lugs and engaging said surfaces slidably to hold the blade between said



seat and said clamp, said spring lugs operating in conjunction with said holding surfaces to compensate for variations between blades of various shapes, and said blade seat having its material relieved at its medial portion to permit ready manipulation of the blade at its rearward edge, for insertion, adjustment and removal.

2,168,448
TYPEWRITING MACHINE
Henry L. Pitman, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application January 28, 1936, Serial No. 61,135
52 Claims. (Cl. 197—66)

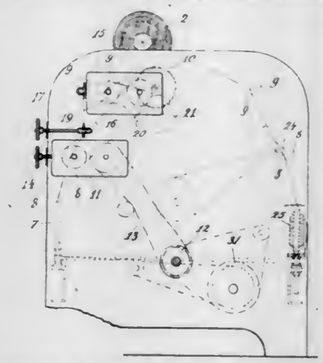


1. In a typewriter, in combination, a frame, a carriage mounted for reciprocatory movement thereon, a platen rotatably mounted thereon, line-spacing mechanism for rotating the platen, power-operated carriage-return mechanism, a key, and means automatically operative under control of said key to return said carriage by means of said carriage-return mechanism and concomitantly, by means of said power-return of the carriage, rotate the platen a predetermined total number of line-spaces less the number of line-spaces the platen has been already rotated by said line-spacing mechanism, whereby in a continuous work-sheet the first line of a succeeding form is automatically presented by means of the power-operated carriage-return and irrespective of the number of lines imprinted on the preceding form.

2,168,449
RING SPINNING FRAME
Erich Reich, Aue, Germany, assignor to Ernst Gessner Aktiengesellschaft, Aue (Saxony), a German corporation
Application April 15, 1938, Serial No. 202,151
In Germany April 16, 1937
4 Claims. (Cl. 57—97)

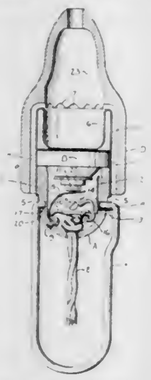
1. A ring-spinning machine of the character described, having a spindle and its drive, calen-

der rollers, drawing rollers and condenser bobbin rollers, a variable speed transmission for driving said calender rollers, a similar transmission each for said drawing and said condenser bobbin rollers, and means for driving said variable speed



transmissions in series to interrelate the speeds of said devices, to permit speed regulation of the several sets of rollers during the operation of the machine, and to adjust a desired speed ratio between the roller sets and the spindle when one or several of said transmissions are varied.

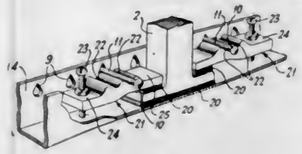
2,168,450
ELECTRICAL VAPORIZER
Joseph Robinson, New York, N. Y.
Application February 14, 1936, Serial No. 63,819
4 Claims. (Cl. 128—192)



1. A vaporizer of the character described, comprising in combination a base, a heater secured thereto, a container heated by the heater, and a switch for controlling the heater, said switch including an actuator handle pivotally connected with said base and adapted to be pivoted laterally to form a stand for supporting said vaporizer.

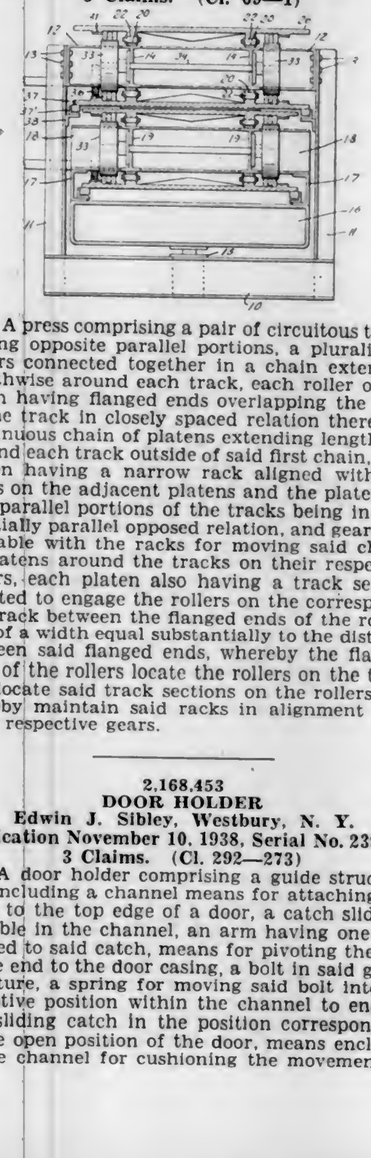
2,168,451
SUPPORT FOR SEWING MACHINE TABLES
Max Rothfield, Brooklyn, N. Y.
Application April 10, 1937, Serial No. 136,036
13 Claims. (Cl. 311—13)

8. In combination, a U-shaped rail, a table leg having its base portion located between the sides of said rail, a clamp for attaching said leg to said rail solely by pressure, vibration and noise absorbent material located between said leg and rail and between said clamp and leg, and means



passing between the sides of said rail for fastening said clamp to said rail.

2,168,452
PLATEN PRESS
George Arthur Schieren, New York, N. Y.
Application September 16, 1937, Serial No. 164,180
5 Claims. (Cl. 69—1)

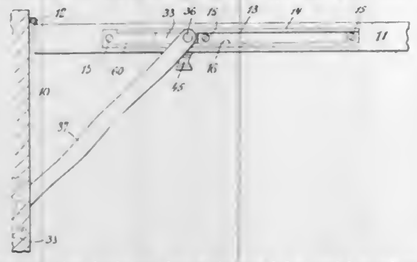


1. A press comprising a pair of circuitous tracks having opposite parallel portions, a plurality of rollers connected together in a chain extending lengthwise around each track, each roller of the chain having flanged ends overlapping the sides of the track in closely spaced relation thereto, a continuous chain of platens extending lengthwise around each track outside of said first chain, each platen having a narrow rack aligned with the racks on the adjacent platens and the platens at said parallel portions of the tracks being in substantially parallel opposed relation, and gears engageable with the racks for moving said chains of platens around the tracks on their respective rollers, each platen also having a track section adapted to engage the rollers on the corresponding track between the flanged ends of the rollers and of a width equal substantially to the distance between said flanged ends, whereby the flanged ends of the rollers locate the rollers on the track and locate said track sections on the rollers and thereby maintain said racks in alignment with their respective gears.

2,168,453
DOOR HOLDER
Edwin J. Sibley, Westbury, N. Y.
Application November 10, 1938, Serial No. 239,742
3 Claims. (Cl. 292—273)

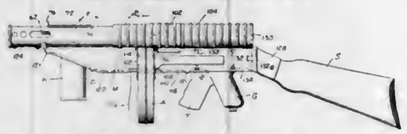
1. A door holder comprising a guide structure and including a channel means for attaching the same to the top edge of a door, a catch slidably movable in the channel, an arm having one end pivoted to said catch, means for pivoting the opposite end to the door casing, a bolt in said guide structure, a spring for moving said bolt into an operative position within the channel to engage said sliding catch in the position corresponding to the open position of the door, means enclosed in the channel for cushioning the movement of

the catch into open door position, a lever in said guide structure for moving said bolt into an inactive position against the said spring and for re-



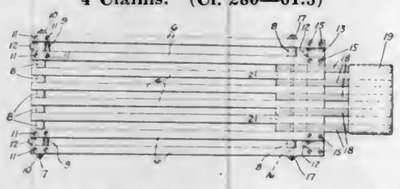
leasing the bolt to be actuated by said spring, a rotatable member for operating said lever and a knob connected to said rotatable member for manually operating the same.

2,168,454
SPARKING PAPER RUPTURE TOY WEAPON
Anthony N. Smith, Girard, Pa., assignor to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York
Application March 5, 1937, Serial No. 129,155
13 Claims. (Cl. 46—175)



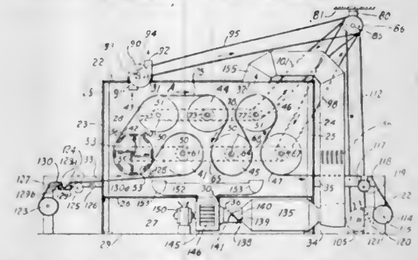
10. In a toy gun, noise-producing mechanism disposed near the breech of the gun, spark-producing mechanism disposed in the barrel of the gun near the muzzle thereof, and means connecting said spark-producing mechanism to said noise-producing mechanism for simultaneous operation, said spark-producing mechanism including a flint, an elongated abrasive element disposed longitudinally of the barrel and reciprocable therein, a frame in said barrel near the flint for guiding said element, and a leaf spring mounted on said frame and bearing against said element in order to urge the same into contact with the flint.

2,168,455
CREEPER
Ellis C. Smith, Schroeder, Minn.
Application November 8, 1937, Serial No. 173,415
4 Claims. (Cl. 280—61.5)



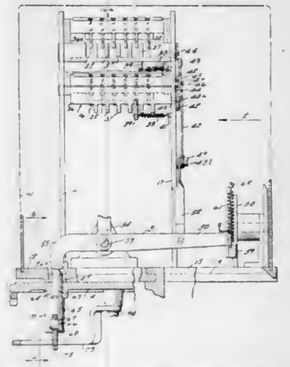
1. A creeper comprising a plurality of spaced slats, a head-rest, a plurality of slats affixed to the head-rest thereto at their outer ends, the inner end portions of said head-rest slats being positioned between said creeper slats, a cross-member extending through said creeper slats, each head-rest slat being pivotally mounted upon said cross-member and being of such width that each head-rest slat is frictionally held against pivotal movement whereby the head-rest may be frictionally held in a plurality of adjusted positions.

2,168,456
APPARATUS FOR DRYING WARPS OF TEXTILES
Ernest A. Stienen, New York, N. Y.
Application June 24, 1937, Serial No. 150,097
1 Claim. (Cl. 34—48)



In a drying apparatus of the character described the combination of a housing comprising a heating chamber and a drying chamber, means in the drying chamber to movably support a warp of textile, means to convey the warp through the drying chamber, a circulating conduit connecting the drying chamber and the heating chamber, a heater in the heating chamber connected to the end of said conduit, a valve chamber extending from the heater, an adjustable valve in said valve chamber, means to indicate the position of the valve in said valve chamber, a housing having openings extending from the valve chamber and positioned in said heating chamber, a fan in the latter housing, an electric motor in the heating chamber to rotate the said fan, a discharge nozzle extending from the housing of the fan into the drying chamber, an exhaust fan for the drying chamber and means to rotate the exhaust fan.

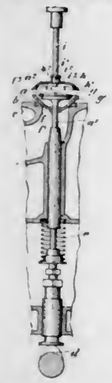
2,168,457
POSTAGE METER COUNTER LOCK
John A. Strother, Darien, Conn., assignor to Pitney-Bowes Postage Meter Co., Stamford, Conn., a corporation of Delaware
Application August 1, 1936, Serial No. 93,797
3 Claims. (Cl. 235—130)



3. In a device of the class described having a base, a meter unit detachably mounted on said base, means to secure said meter unit in an operating position on the base, registering mechanism in said meter unit including totalizer

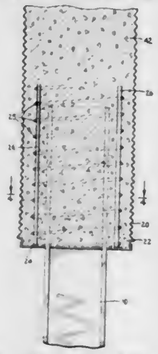
wheels having tens transfer members associated with the wheels of higher order and movable to an effective transfer position by a wheel of lower order, obstruction means having obstructing surfaces and controlled by said meter securing means to permit movement of the tens transfer members when the meter unit is secured to the base, and means effective to move the obstruction means to prevent the free movement of the transfer members when the meter unit is removed from the base.

2,168,458
VALVE GRINDER
Frank T. Sweigart, Port Washington, N. Y.
Application March 7, 1936, Serial No. 67,574
Renewed January 7, 1939
3 Claims. (Cl. 51—185)



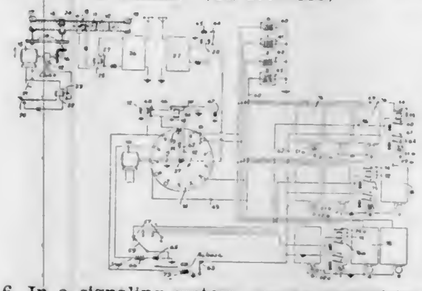
3. A device for simultaneously grinding valves mounted upon valve stems and their associated valve seats, comprising a dished grinding unit having opposed grinding surfaces and an opening therein to receive the valve stem, said device being so slotted that it may be applied to the valve and valve seat without removal of the valve from its supporting structure.

2,168,459
COMPOSITE PILE WITH H-BEAM
Maxwell M. Upson, Englewood, N. J., assignor to Raymond Concrete Pile Company, New York, N. Y., a corporation of New Jersey
Application May 21, 1937, Serial No. 143,911
2 Claims. (Cl. 61—53)



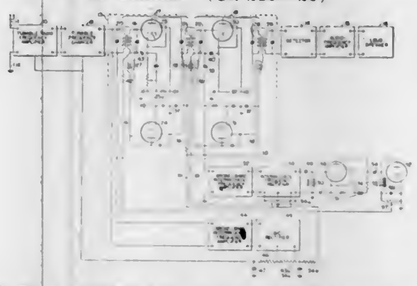
1. A composite pile comprising in combination an H-beam lower section having a horizontal plate on its upper end and a concrete upper section attached to the H-beam through the instrumentality of said plate.

2,168,460
SIGNALING SYSTEM
Glenn W. Watson, Binghamton, N. Y., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application August 17, 1935, Serial No. 36,649
6 Claims. (Cl. 177—353)



6. In a signaling system, means comprising a perforated sheet to transmit a plurality of successively timed signals comprising particular representations, said signals comprising single impulses having similar characteristics, means to receive said signals comprising a start-stop rotary distributor, means responsive to one of said signals to start the said distributor, means to operate said distributor a plurality of revolutions in timed relationship with said signal transmitting means, a plurality of orders of receiving instrumentalities including means to register the representations corresponding to the received signals, means comprising a stepping relay to control successively the responsive action of the orders of the said receiving instrumentalities, and means to operate automatically the stepping relay upon each revolution of the said distributor.

2,168,461
AUTOMATIC SELECTIVITY CONTROL
Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application July 21, 1936, Serial No. 91,657
26 Claims. (Cl. 250—20)

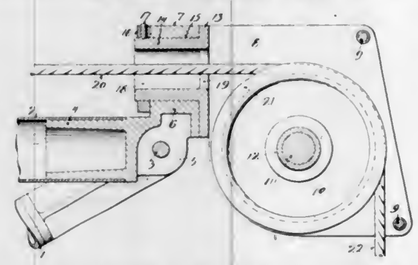


1. In a modulated-carrier signal receiver, a band-pass selector for selecting a desired signal comprising a carrier and a band of modulation frequencies and incidentally passing an undesired signal on a carrier frequency near the desired signal carrier frequency, means for deriving from said desired and undesired signals a control signal comprising beat notes of said desired and undesired signals, and means responsive to the amplitude of said control signal for increasing the frequency difference between said undesired signal and the mean frequency of the band passed by said selector directly in accordance with said amplitude of said undesired signal.

2,168,462
MANUFACTURE OF ALTERNATING CURRENT RECTIFIERS OF THE DRY-CONTACT TYPE
Albert Leslie Williams and Leslie Ernest Thompson, London, England, assignors, by mesne assignments, to Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
No Drawing. Application July 23, 1938, Serial No. 221,004. In Great Britain July 27, 1937
4 Claims. (Cl. 175—366)

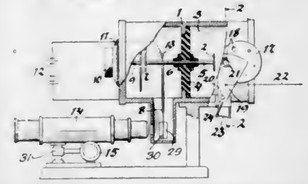
1. A process for the manufacture of an alternating current rectifier utilising an element such as selenium capable of conversion from an amorphous state into a metallic state comprising as an essential step subjecting the element to an intensive cooling treatment at a temperature of approximately —60° C. for effecting said conversion.

2,168,463
SHEAVE DEVICE FOR DERRICKS
Joseph W. Wunsch, Brooklyn, N. Y.
Application February 16, 1937, Serial No. 125,967
1 Claim. (Cl. 254—139)



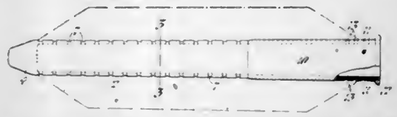
In a tripod derrick, derrick leg connecting and sheave supporting means, comprising a bracket of right angle form, one angle member of which bracket is adapted to be connected endwise to a derrick leg with the other angle member extending perpendicular thereto, and said latter angle member having a bore extended therethrough parallelly of the derrick leg connecting angle member, a stud extended transversely through the angle portion of the bracket adapted for the pivotal connection of derrick legs at opposite sides of the bracket, a bifurcated sheave support the bifurcation legs of which support are of substantially rectangular plate form arranged with alined hubs centrally thereof, and said bifurcated support having a tubular bearing disposed at one side of the axis of the hubs of the bifurcation plates and extending from the support in a direction opposite to the bifurcation legs, said tubular bearing member being extended through and rotatable in the bore of the one angle member of the angle bracket and one end of the bore constricted to guide the run of a cable therethrough, means to retain said tubular bearing member against endwise movement in the bore of the one angle member of the bracket, an axle mounted in the hubs of and extending between the bifurcation plates, and a sheave rotatably supported on said axle between the bifurcation plates with a peripheral portion of the sheave arranged in a plane coincident with the axis of the bore in the tubular bearing member of the bifurcated support.

2,168,464
ROENTGENOMETER
Shuzo Yeda, Tokyo, Japan, assignor to Choshichi Yamagoshi, Tokyo, Japan
Application February 5, 1937, Serial No. 124,191
In Japan October 3, 1936
6 Claims. (Cl. 250—83)



1. A roentgenometer or the like, comprising a metallic casing including an ionization chamber provided with an opening for admitting X-rays thereinto, an electrode projecting into said chamber and insulated from said casing, an electrometer electrically connected to said electrode, optical means for observing the condition of said electrometer, and a variable condenser one plate of which is electrically connected with said electrode and electrometer and the other plate of which is adjustable and has an indicator connected thereto, permitting observation and comparison of the various settings of said condenser, the latter being a part of an electric circuit which includes said electrode and electrometer and being adapted, by variation thereof, to provide compensation in said circuit for potential changes caused therein by the admission of X-rays into the ionization chamber.

2,168,465
FLAT QUILL OR BOBBIN
Harald L. Amrhein, Woonsocket, R. I., assignor to American Paper Tube Co., Woonsocket, R. I., a corporation of Rhode Island
Application April 3, 1937, Serial No. 134,890
8 Claims. (Cl. 93—1)

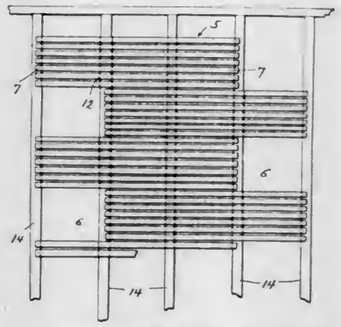


1. An improved method of manufacturing flat quills or bobbins consisting in winding a sheet of paper on itself to form laminated walls of substantially rectangular shape in cross-section, slitting the narrower sides of the tube at one end, compressing the slitted portion of the tube and securing its sides together with an adhesive, and finally rounding off said end to form a tapered tip for the quill.

2,168,466
LATHING
Leroy V. Bell, Wakefield, R. I.
Application October 7, 1938, Serial No. 233,861
1 Claim. (Cl. 72—116)

Lathing of the class described comprising a plurality of groups of strips, the strips of each group being arranged parallel to each other, wires

connecting the strips of each group together in spaced relation, said wires having portions forming loops for snugly receiving portions of the strips, each loop snugly fitting around a strip to prevent movement of the strip in the loops and other portions of the wires between the strips

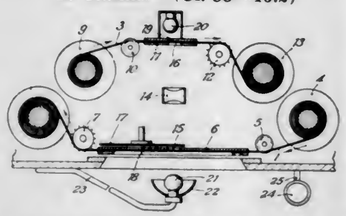


being formed to hold the strips a certain distance apart and means for connecting the ends of the wires of one group with the ends of the wires of adjacent groups to permit one group to be folded flat upon another group all of said groups being of uniform width.

2,168,467

PHONORHYTHM PROCESS AND APPARATUS FOR CARRYING IT OUT

Carl Robert Blum, Berlin-Marienfelde, Germany
Application January 20, 1936, Serial No. 59,957
In Germany January 30, 1932
12 Claims. (Cl. 88—16.2)



1. In a method of producing cinematograph films with synchronized sound and action for a plurality of languages the steps comprising forming an initial rhythm band by inscribing on a band the syllables of a text in one language, spaced to indicate an arbitrary but natural rhythm and tempo and then on the same band corresponding texts in foreign languages with syllables spaced similarly as the first language inscribed on the initial rhythm band, secondly forming a basic rhythm band by passing the initial rhythm band past a guide mark at a uniform speed while each text is simultaneously being read by a person in the language in which the text is written, comparing for synchronism and coincidence the facial movements of the persons reading the texts, suitably marking the bands where lack of synchronism occurs, correcting the texts and initial rhythm band at such marked parts, repeating the steps of comparison and correction until the aforesaid facial movements coincide and synchronize, thirdly forming a master rhythm band by recording the rhythm and tempo of one person's interpretation of the corrected text in one language simultaneously with the taking of the picture sequence and inscribing the words of at least one other text on a band with syllables variable spaced as determined by the last said rhythm and tempo, and finally passing the master rhythm band with one of the other texts past a guide mark at a constant speed and recording such other text whereby the speech of a person reading the said other text will synchronize with the movements of the person in the picture sequence.

2,168,468

MANUFACTURE OF FLUID PHOSPHATIDE PREPARATIONS

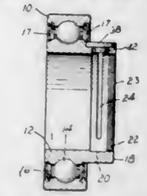
Karl Braun, Frohnau, near Berlin, and Richard Rosenbusch, Dahlem, near Berlin, Germany, assignors to J. D. Riedel-E. de Haen Aktiengesellschaft, Berlin-Britz, Germany
No Drawing. Application June 28, 1938, Serial No. 216,400. In Germany May 6, 1935
4 Claims. (Cl. 252—1)

1. As a new composition of matter suitable for incorporation into soaps and liquid at room temperature, a fluid phosphatide preparation consisting of 75 parts of a commercial, oil-containing phosphatide, 3 to 50 parts of the mixed acids from castor oil and a minor amount of poly-ethanolamines.

2,168,469

ANTIFRICTION BEARING

Rodger D. Brouwer, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application April 29, 1936, Serial No. 77,007
11 Claims. (Cl. 308—236)

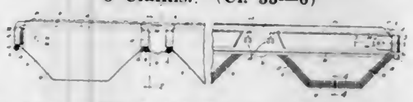


1. In a unit-handling antifriction bearing and securing means, a race ring adapted for connection to a supporting member, the race ring having a load carrying raceway portion and a portion overhanging laterally beyond the raceway portion of the ring and displaceable with respect thereto, the ring having a bore opening to slide axially onto the supporting member, and means reacting between the overhanging portion and the raceway portion and free of the supporting member for forcing said displaceable portion to contract into tight engagement with the periphery of the supporting member; substantially as described.

2,168,470

HEARTH PAN STRUCTURE

John E. Chandonia, Cincinnati, Ohio, assignor to The Lockwood Manufacturing Company, Cincinnati, Ohio, a corporation of Ohio
Application July 29, 1938, Serial No. 222,017
5 Claims. (Cl. 53—6)

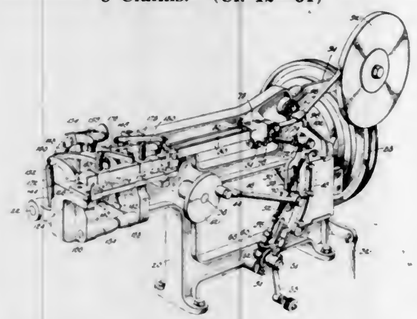


5. In a multiple pan structure of the class described, the combination of a pan including a dough supporting member and an end wall secured thereto, a reinforcing frame attached to the pan and including riser portions at opposite sides of the pan end walls, said riser portions being exposed outside the limits of the pan interior, a pan-connecting strap extending along the exterior of the end wall of the pan, and means mounting the pan upon said strap comprising a pair of clips, each clip including a U-shaped body portion for embracing a riser, and a prong penetrating the strap and having a free end turned upon the strap exteriorly thereof.

2,168,471

MACHINE FOR TAPING SHOE PARTS

Fred L. Corson, Rochester, N. H., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application June 11, 1937, Serial No. 147,611
8 Claims. (Cl. 12—51)

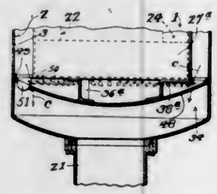


1. In a machine for taping shoe parts, the combination of mechanism for projecting a measured length of tape over a shoe part, pressing means for applying the entire length of the tape to the shoe part at one time, and means for guiding the length of tape continuously by its edges as it is projected to applying position and prior to the operation of the pressing means.

2,168,472

AIR CLEANER

Earl L. Cloud, Pampa, Tex.
Application April 7, 1937, Serial No. 135,570
1 Claim. (Cl. 183—22)

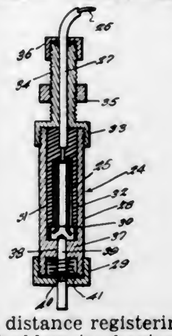


In an air cleaner, a casing having a bottom with a connected discharge pipe, twin-stepped support members in the casing having upright elements connecting the steps, an oil cup slid in position between the upright elements and rested on the lowermost steps, and means to which the bottom ends of the support members are secured so as to sustain said members and the oil cup, said means comprising a baffle plate marginally secured to the casing, and a peripheral series of perforations in said plate, the portions punched from the plate defining downwardly directed lips which deflect air downward.

2,168,473

SWITCH FOR A FLUID OPERATED DEVICE

Lewis H. Cutting, San Diego, Calif.
Application July 2, 1937, Serial No. 151,747
1 Claim. (Cl. 200—159)



A switch for a distance registering device comprising a cylindrical housing having opposite ends thereof externally screw threaded, caps threaded on said ends of the housing, a partition formed in the housing and dividing the latter into first and second-named chambers closed by said caps, a movable contact slidable through said partition and one of the caps and having one end located in the first-named chamber and its opposite end arranged exteriorly of the housing to be engaged by an operating medium, a coil spring acting on said contact to urge the latter to engage the operating medium and located in the second-named chamber, an insulator mounted within the first-named chamber and held seated against the partition by one of said caps, a fork type contact mounted in the insulator to be engaged by the movable contact, a screw threaded extension formed on the last-named cap and having a bore to receive an electric conductor for connection with said fork type contact and adapted to extend through an opening of a supporting carriage with the latter-named cap engaging the carriage, a nut threaded on the extension against the carriage for cooperating with the latter-named cap in securing the extension to the carriage, and a packing cap threaded on the extension to establish a leak-proof connection between the extension and the conductor.

2,168,474

CIGARETTE MOUTHPIECE

Glenn Davidson, Aurora, Ill.
Application May 2, 1936, Serial No. 77,627
1 Claim. (Cl. 131—52)



In a cigarette having a consumable body, a wrapper, and an insert, said insert being located at one end within the wrapper and comprising a plurality of flat paper strips disposed longitudinally of the insert, each strip being narrower than the insert diameter.

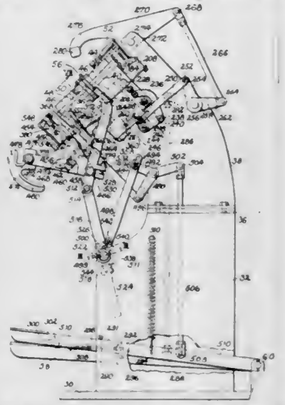
2,168,475

MACHINE FOR PRESSING SOLES ON SHOE BOTTOMS

Sidney J. Finn, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application October 25, 1937, Serial No. 170,732
48 Claims. (Cl. 12—33)

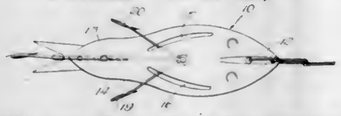
1. A machine for pressing soles on shoe bottoms

having, in combination, a pad for receiving a sole and shoe, said pad having a fixed portion and a portion movable in an arc relatively to said fixed portion, said portions being initially located in the same plane, means for pressing the forepart of the shoe against said fixed portion of the pad, means for swinging said movable portion in an arc to press it against the shank portion of the shoe irrespective of the shape of the shoe, means



for engaging the heel portion of a last in the shoe and supporting the rear portion of the shoe against the pressure from said movable portion of the pad, and means operated by movement of the movable portion of the pad into pressure applying position for locking the shoe supporting means against movement heighwise of the shoe in response to pressure from said movable portion.

2,168,476
FISH LURE
Felix C. Hartung, Chicago, Ill.
Application April 29, 1937, Serial No. 139,788
6 Claims. (Cl. 43—42)

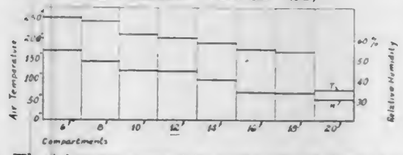


1. A fish lure of the character described, including: a body having a concavo-convex central portion and end portions of reduced width; a pair of slots through said central portion, said slots having a length several times their width and converging gradually toward the longitudinal axis of said body; and a hook carried by said body.

2,168,477
WATER-SOLUBLE UREA-FORMALDEHYDE-ETHYLENE GLYCOL CONDENSATION PRODUCTS AND PROCESS OF PRODUCING THE SAME
Theodore S. Hodgins, Detroit, and Almon G. Hovey, Pleasant Ridge, Mich.
No Drawing. Application October 8, 1938, Serial No. 234,022
5 Claims. (Cl. 260—70)

1. A process of preparing a water-soluble, water-white heat-convertible, resinous product characterized by stability in solution, and when baked being characterized by resistance to water and alcohol; which process comprises simultaneously reacting urea, ethylene glycol and formaldehyde for 1–3 hours at boiling temperature employing a ratio of 1–5 mols ethylene glycol per 1 mol urea and 3 mols aqueous formaldehyde, employing an alkaline catalyst in the initial stage and adding 0.004–0.005 mols phosphoric acid in the final stage.

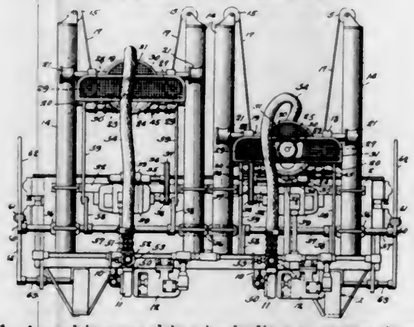
2,168,478
METHOD OF DRYING HIDES AND SKINS
Henry W. Hyde, Dedham, and David Edgar, Lynn, Mass., assignors to The Tanning Process Company, Boston, Mass., a corporation of Massachusetts
Application October 14, 1937, Serial No. 168,928
11 Claims. (Cl. 34—24)



1. That improvement in methods of drying mineral tanned hides and skins, which comprises subjecting each hide or skin to currents of air at temperatures around 250° F. to heat such hide or skin and the watery contents thereof to a high temperature in minimum time, thereby providing conditions which favor and effect rapid evaporation of the water in the hide or skin, and subsequently subjecting these same hides and skins to air of gradually decreasing temperature and lower relative humidity to complete the drying operation.

4. That improvement in methods of drying tanned hides and skins which comprises, blowing currents of air from one end to the other of each hide or skin along lines parallel to the backbone line of the hide or skin, and preliminarily restricting the greater portion of the air currents to those portions of the hide or skin lying closely adjacent to the backbone line of each hide or skin.

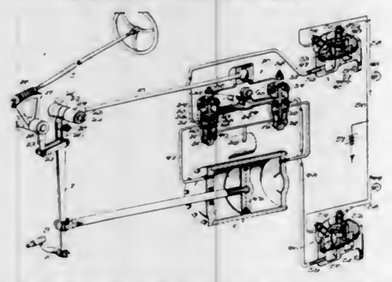
2,168,479
SOAKING MACHINE
John Edwin Johnson and Henry Frey, Wilkes-Barre, Pa., assignors to Johnson Engineering & Mfg. Co., Wilkes-Barre, Pa.
Application May 24, 1935, Serial No. 23,317
Renewed July 25, 1938
4 Claims. (Cl. 68—62)



1. A soaking machine including a compartment for holding a treatment fluid, a carriage mounted adjacent to the compartment, an arm on the carriage for supporting in the compartment a movable skein of material to be treated, a spraying element fixed on the carriage and beneath

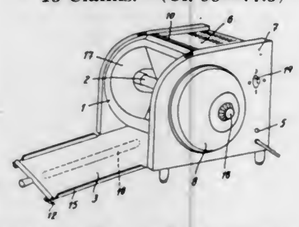
the arm, said element being positioned to be surrounded by the supported skein, said element having means for directing jets upwardly along diverging lines toward opposed portions of the skein to free portions of the skein from its supporting arm, and means for directing a treatment fluid from said compartment to the spraying element.

2,168,480
STEERING MECHANISM
Stephen Johnson, Jr., Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware
Application April 14, 1934, Serial No. 720,652
6 Claims. (Cl. 177—339)



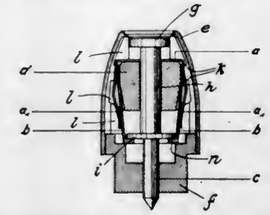
6. In a vehicle direction indicator, means for automatically indicating the direction of turn-off from any predetermined path, said indicating means including visible left and right indicators and being operable irrespective of the degree of turn in either direction, said first mentioned means including means automatically and substantially immediately changing the indication to give a positive indication of a turn in an opposite direction of right or left on said visible indicating means whenever the angle of turn is decreased or reversed, and means for automatically suppressing all indication when the vehicle is following a substantially straight-away path.

2,168,481
APPARATUS FOR MAKING PRINTS
Erik Jollasse, Hanau-on-the-Main, Germany, assignor to Quarzlampen-Gesellschaft m. b. H., Hanau-on-the-Main, Germany
Application February 24, 1938, Serial No. 192,387
In Germany February 27, 1937
15 Claims. (Cl. 95—77.5)



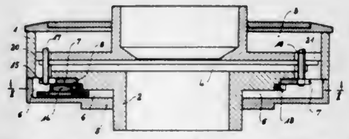
1. Apparatus for making prints on light-sensitive sheets comprising a housing having a semi-cylindrical light transmissive surface disposed with a substantially horizontal axis and having one longitudinal edge superposed above the other, an elongated light source disposed substantially along the axis of the semi-cylindrical surface, said housing being provided with ventilating openings extending substantially along the longitudinal edges of the semi-cylindrical surface and substantially coextensive therewith.

2,168,482
MECHANICAL DETONATOR
Helmut Junghans, Sulgen, near Schramberg, Germany
Application July 17, 1936, Serial No. 91,203
In Germany May 7, 1935
3 Claims. (Cl. 102—39)



1. A mechanical detonator for projectiles comprising a detonator casing, a detonator base having screw-threads to receive the casing thereon; and a safety device comprising an inner member fitting in the casing and held in place by the base, said inner member being provided with an annular groove, a plurality of gripper arms, said inner member having longitudinal grooves therein in each of which a gripper arm is provided and in which the arms swing, a transverse member for each gripper arm fitting in the annular groove, and a spring cage provided over the inner member and adapted to press the arms inwardly by spring pressure, said spring cage comprising spring members for each gripper arm, said spring members normally fitting within the longitudinal grooves of the inner member.

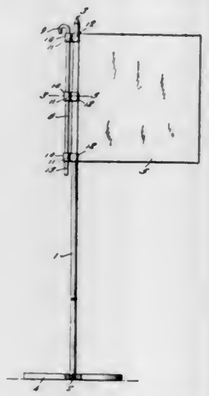
2,168,483
PHOTOGRAPHIC SHUTTER
Helmut Junghans, Schramberg-Sulgen, Wurtemberg, Germany
Application February 24, 1937, Serial No. 127,548
In Germany February 29, 1936
2 Claims. (Cl. 95—62)



1. In a photographic shutter with a built-in timing mechanism, a drum shaped casing comprising a main member and a rear member for said mechanism, a rearwardly extending central socket on the main member and coaxial therewith, a flat ring revolubly arranged inside said casing for winding up said timing mechanism, means for releasing the shutter, and another means for manually releasing the timing mechanism, a diametric partition on said main casing member, the means for releasing the shutter and said other means projecting through small openings provided in said partition between the casing and the timing mechanism, a cam on said flat ring for actuating the shutter releasing means, manual means for turning said flat ring, a spring associated with said flat ring adapted to turn the flat ring after tensioning by hand, an abutment on the flat ring situated behind said means for manually releasing the timing mechanism, means

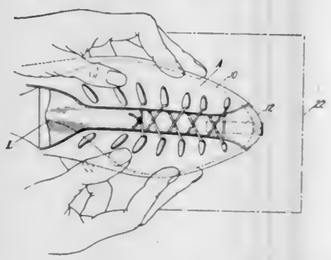
for transferring the flat ring rotation to said timing mechanism, upon tensioning said spring, and other means for preventing such rotation-transfer from the ring to the timing mechanism.

2,168,484
HIGHWAY SIGNAL
Raymond Arthur Loux, Nashwauk, Minn.
Application April 5, 1939, Serial No. 266,193
1 Claim. (Cl. 116—173)



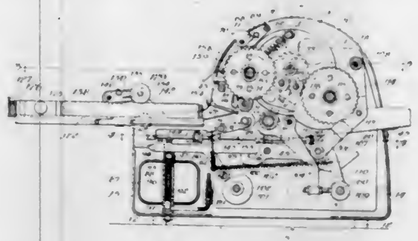
A highway signal comprising a staff, a flag having a marginal portion folded about said staff, and means for detachably securing said flag to said staff, said means including a rod terminating in a hook at one end, and a plurality of resilient clips adjustably mounted on said rod, each clip including an eye encircling the rod and frictionally gripping same and legs projecting from said eye and clamping the flag on the staff.

2,168,485
METHOD AND MEANS FOR RELATIVELY POSITIONING SOLES AND SHOES
Horatio S. Lyness, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application January 10, 1938, Serial No. 184,132
6 Claims. (Cl. 12—142)



1. That improvement in methods of relatively positioning soles and shoes for attachment to each other which comprises providing an extension on the periphery of a sole, said extension projecting beyond said periphery parallel to the plane of the sole, locating a shoe on the sole by alining the periphery of the shoe bottom with said extension, and, after the sole has been attached to the shoe, removing said extension.

2,168,486
DUPLICATING APPARATUS
Alfred Marchev, La Grange, Ill., assignor to Ditto Incorporated, Chicago, Ill., a corporation of West Virginia
Application September 20, 1937, Serial No. 164,750
5 Claims. (Cl. 101—132)



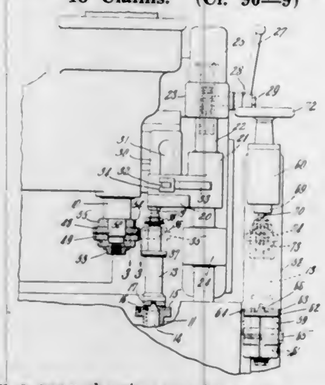
1. In a duplicating machine of the character described, a frame, a drum rotatably journalled therein, means to mount a master sheet on said drum, drive means for said drum including means operable automatically to cause successive revolutions of the drum with dwell periods between the revolutions upon continued operation of said drive means, a plurality of cooperating moistening and feeding rolls driven by said drum for moistening copy sheets fed thereto, and sheet feeding means, actuated by said drive means during the dwell period of said drum, to advance copy sheets into position for laying on said master sheet when the drum is again rotated, means for supplying moistening liquid to one of said rolls including a pump, said drive means including a cam, and a cam lever operatively connected to the sheet feeding means and the pump to actuate both of them.

2,168,487
EPISCOPIC APPARATUS
Louis Nicolas Mestre, Paris, France, assignor to Anciens Etablissements Barbier, Benard & Turenne, Paris, France, a joint-stock company
Application April 1, 1937, Serial No. 134,399
In France April 2, 1936
2 Claims. (Cl. 88—24)



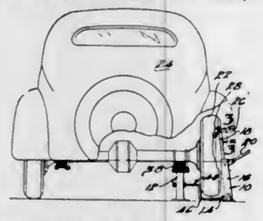
1. Episcopic apparatus comprising an inclined mirror throwing back on a screen the luminous beam issuing from the field to be observed, a lever pivoting about a horizontal spindle parallel to the screen and passing through the axis of the mirror, a small field objective and a large field objective carried by said pivoting lever, means for controlling the pivoting of the said lever and means for bringing it to a standstill either in a position for which the small field objective is in the path of the luminous beam, between the field to be observed and the mirror whilst the large field objective is outside of said path, or in a position for which the large field objective is situated in the path of the luminous beam between the mirror and the screen, whilst the small field objective is situated outside said path.

2,168,488
WORK PLACING METHOD AND MEANS FOR GEAR CUTTING MACHINES
Edward W. Miller, Springfield, Vt., assignor to The Fellows Gear Shaper Company, Springfield, Vt., a corporation of Vermont
Application December 12, 1935, Serial No. 54,066
18 Claims. (Cl. 90—9)



1. In a gear shaping machine, the combination with a work spindle having a coaxial centering member and off center coupling and driving means of a work arbor complementally formed to engage said centering member and driving means in coaxial extension of the spindle and in only one position of angular rotation about such axis, a turn table having centering and off center coupling means substantially like those of the work spindle adapted to engage the arbor in similar axial alinement and angular relationship, a supporting structure having a bearing in which said turn table is rotatable, means for locking the turn table to the supporting structure to prevent, and unlocking it to permit, rotation of the turn table, and a locating member mounted in fixed location at one side of the axial line of the rotatable member, adapted to effect interdental bearing with a gear on the arbor when the arbor is so coupled with said turntable.

2,168,489
LIFTING MECHANISM
Joseph J. Mizer, Racine, Wis., assignor to Walker Manufacturing Company, Racine, Wis., a corporation of Wisconsin
Application March 27, 1939, Serial No. 264,355
2 Claims. (Cl. 254—133)



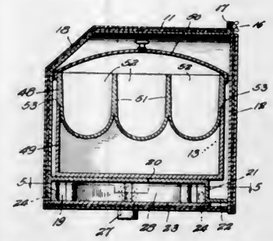
2. A lifting device for a vehicle wheel, said wheel having an outwardly projecting part, comprising a base adapted to rest upon a supporting surface, a substantially linear column carried by the base and extending inclinedly upwardly therefrom at a fixed angle thereto, a head carried by the column at the top of the column, said head having an upwardly directed nose-like part immediately adjacent the axis of the column but offset therefrom on the side toward which the column is inclined and formed to hook beneath said projecting part, the inclination of said column being just sufficient so that when said base is positioned immediately adjacent the base of a tire associated with said wheel with the inclination toward the wheel said inclination brings said wheel engaging nose like part under and in lifting relation to said projecting part of the wheel, and means operating between said base and column for raising said head and column along the axis of the column so as to lift said wheel.

2,168,490
RING
Maurice Moss, New York, N. Y.
Application May 17, 1939, Serial No. 274,267
17 Claims. (Cl. 63—15)



15. Relatively rigid frame members for receiving ornamental members, resilient members holding the frame members together but separated from each other, and removable members held in the frame.

2,168,491
TOURIST COOKER
Walter N. Parmeter, Canton, S. Dak., assignor of one-third to Harold Bogue, Canton, S. Dak.
Application December 24, 1937, Serial No. 181,695
4 Claims. (Cl. 126—20)

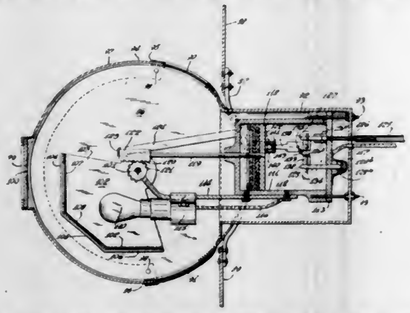


1. A cooker of the character described comprising a housing open at one end and having a bottom disposed in elevated relation to lower edges of walls of the housing, a bottom plate secured to walls of the housing and together with the elevated bottom defining a heating chamber, the heating chamber having an inlet and an outlet, means in the heating chamber for directing a heating medium in a tortuous path from the inlet to the outlet, and a removable closure for the open end of the housing.

2,168,492
VEHICLE SIGNALING MECHANISM
Paul A. Pennock, Jamestown, N. Y.
Application February 5, 1936, Serial No. 62,521
3 Claims. (Cl. 116—39)

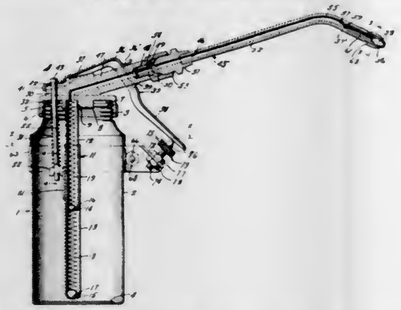
1. An automobile signaling structure having a casing provided with a window at one side thereof and having an enlargement projecting beyond the other side thereof, an operating motor mounted in said enlargement, a bracket supported at one end by said motor and having a distal end portion extending from said motor into the casing, a signaling frame within the casing having

indicia for display at said window, a shaft rigid with said frame, said shaft being disposed longitudinally of the casing at an angle to the bracket and journalled on said distal end portion of the bracket, a rod reciprocable by said motor



in a path at an angle to said shaft, said rod extending into the casing, and gearing between said rod and said shaft to operate said frame to move said indicia to and from registry with said window.

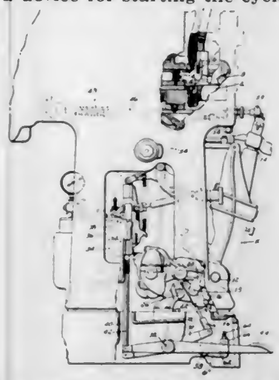
2,168,493
OIL EJECTOR
Ralph G. Plews, Winnipeg, Manitoba, Canada
Application January 15, 1938, Serial No. 185,235
12 Claims. (Cl. 221—51)



1. In a fluid ejecting device, the combination of an oil receptacle, a cap, a spout carried by the cap, a pump carried by the cap and communicating therethrough with the spout, an angular-shaped finger piece one end of which extends down the side of the oil receptacle in advance of the cap and the other end extends rearwardly over the cap and connects with the pump, and an adjustable projection carried by said oil receptacle for limiting the movement of said finger piece.

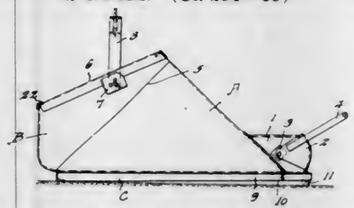
2,168,494
SHOE MACHINE
John William Pratt, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application March 25, 1938, Serial No. 198,111
In Great Britain May 25, 1937
8 Claims. (Cl. 12—123)

1. In a shoe machine, the combination with power-driven means for operating on a shoe in a cycle of automatic operations of the machine, of a shoe support movable to present a shoe to said power-driven means, additional power means for thus moving said shoe support and for then maintaining it in shoe-presenting position to permit the operator to inspect the shoe prior to any operation of the machine thereon, a controlling member movable by the operator to cause said additional power means thus to act on the shoe support, a device for starting the cycle of opera-



tions of the machine independently of said additional power means, and mechanism for operating said starting device by further movement of said controlling member after the shoe support has received its shoe-presenting movement.

2,168,495
HOIST AND FEED HOPPER
Alvin C. Rasmussen, Indianapolis, Ind., assignor to Insley Manufacturing Corporation, Indianapolis, Ind., a corporation
Application March 7, 1938, Serial No. 194,450
2 Claims. (Cl. 294—69)

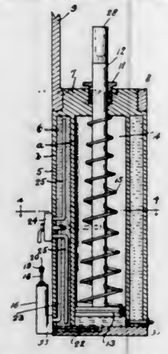


1. A hopper of the class described, comprising, in combination, a main body portion having a charging opening and a discharging opening, a gate normally closing said discharging opening, a charging extension attached to said main body portion and partially surrounding said charging opening whereby said hoper may be charged with material when it is resting upon one of its sides, said extension being comparatively shallow at its end and sides to permit of dumping the contents of low charging receptacles thereon to and from said ends and sides, a supporting frame attached to said side of said main body portion and adapted to support the hopper upon the ground when it is resting in horizontal position, said supporting frame including a fulcrum positioned below the discharge opening and about which the hopper may pivot when being raised from horizontal to vertical position, said fulcrum acting as a guard to protect said gate during the raising of the hopper from a horizontal to a vertical position.

2,168,496
HYDRAULIC IMPLEMENT
Paul James Robison, Thompson, Ohio
Application September 14, 1937, Serial No. 163,853
1 Claim. (Cl. 60—52)

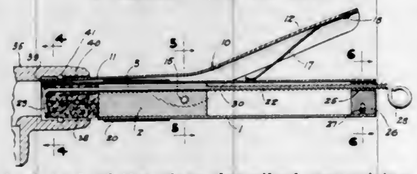
In a hydraulic jack including a case having a cylinder therein and a fluid reservoir surrounding the cylinder, a spring-pressed piston operating

in the cylinder and a pump having a duct connecting the pump with the lower end of the cylinder; a valve casing connected to a portion of the exterior wall of the case intermediate the ends thereof, an inlet pipe connecting the pump with the central portion of the valve casing, a pipe connecting the valve casing with the lower end of the reservoir, a second pipe connecting the



valve casing with the other end of the reservoir, a pair of pipes connecting intermediate portions of the reservoir with the valve casing, said pair of pipes extending to points at opposite sides of the cylinder and a manually operated valve body in the valve casing for connecting the inlet pipe with any one of the four pipes in communication with the reservoir, all of said four pipes being of rigid construction.

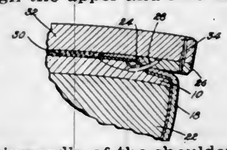
2,168,497
ABRADING TOOL
Theodore M. Schupp, Richfield Township, Summit County, Ohio
Application March 22, 1938, Serial No. 197,405
8 Claims. (Cl. 15—212)



1. A tool of the class described comprising an elongated body having a side opening cavity adjacent its forward end, a quantity of abrading material in said cavity exposed through an open side thereof for action on a seat to be cleaned, and an elongated unit fulcrumed to the body and whose front and rear ends constitute, respectively, a jaw and a handle, the latter normally reposing in laterally spaced relation to the body and when swung toward the same serves to rock the unit thereby to cause the jaw to effect expansion of the forward end of the tool and a consequential outward movement of the abrading material.

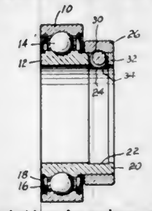
2,168,498
WELT SHOE AND METHOD OF MAKING THE SAME
Louis G. Smith and William A. Bertrand, Brockton, Mass., assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 15, 1937, Serial No. 174,529
4 Claims. (Cl. 12—142)

1. That improvement in methods of making shoes which consists in providing an insole shoulder-channeled to form a feather and shoulder, assembling the insole with an upper upon a last, working the upper over the insole and securing it permanently in lasted position by staples driven through the upper and into the outer face



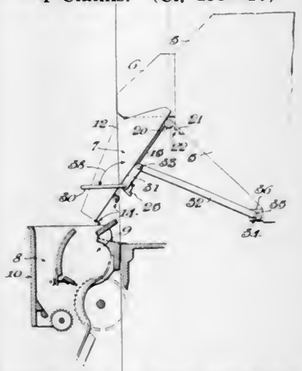
of the insole inwardly of the shoulder and closely adjacent thereto but not through the between-substance, said staples being clinched in the insole, attaching a welt to the shoe by an inseam thereby drawing the upper into the angle between the feather and shoulder of the insole, laying an outsole, and securing the outsole to the welt.

2,168,499
ANTIFRICTION BEARING
Attilio R. Spicacci, Bristol, Conn., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 5, 1936, Serial No. 77,998
12 Claims. (Cl. 308—236)



1. In an antifriction bearing, a race ring adapted for connection to a supporting member, the race ring having a round opening extending transversely thereof and breaking through to the bore, and a locking member having a round end journalled in the opening and having a cam where the bore is interrupted to bind against the supporting member; substantially as described.

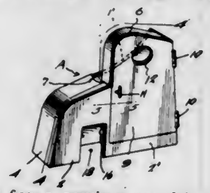
2,168,500
ADJUSTABLE DISCHARGE SLIDE FOR COTTON FEEDERS
William L. Steinhauer, Columbus, Ga., assignor to Cen-Tennial Cotton Gin Co., Columbus, Ga., a corporation
Application May 2, 1938, Serial No. 205,609
4 Claims. (Cl. 193—17)



1. A cotton feeding slide comprising a chute

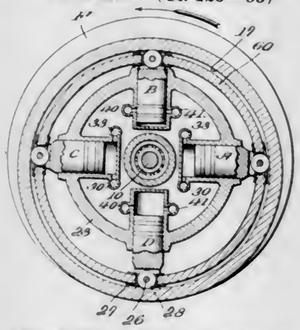
member, means for swingably mounting the member for selectively delivering cotton in one or another of two positions, a shaft rockably supported on said member, a lever for rocking the shaft, a pair of links pivotally connected together, one said link having pivotal connection with a stationary support and the other said link being rigidly connected with said shaft whereby rocking of said shaft will alter the angular relation of said links and select a position for said member, and means for maintaining selected positions of said member.

2,168,501
SEWING MACHINE GUARD
Steve Stoyanowski, Astoria, Long Island, N. Y.
Application January 12, 1938, Serial No. 184,691
Renewed June 3, 1939
3 Claims. (Cl. 112—261)



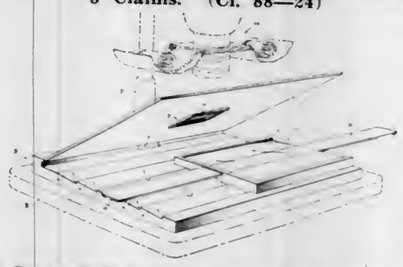
1. A guard for a sewing machine comprising a casing including inner and outer side walls, a rear wall, said side walls having low front portions, a combined front and top wall connecting the front and top edges of the said low front portions together, said outer side wall having a door opening in its rear portion and the rear end of the top wall terminating at said opening, a door for closing the opening and extending above the same when the door is closed, and a narrow strip connected with the top portion of the door and projecting toward the inner wall and having a portion extending over the top of the same and a portion extending partly down the front of the same, said strip being narrower than the width of the casing to permit a portion of the wheel of the sewing machine to slightly project above the same, means for connecting the rear wall to a part of the machine.

2,168,502
INTERNAL COMBUSTION ENGINE
Beverly T. Wagers, Bond, Ky., assignor of three-fourths to E. E. Edwards, Irvine, Ky.
Application August 10, 1936, Serial No. 95,236
4 Claims. (Cl. 123—55)



1. In an engine of the character described wherein is provided a bank of cylinders and pistons reciprocable in and projecting radially from said cylinders, a shaft, and power transmitting connections between said pistons and said shaft comprising, a flywheel secured to the shaft and having an internal circular eccentric cam surface, a pin carried by each piston and extending parallel said shaft, a roller rotatable on each pin and engaging the cam surface, a block rockable on each pin, and a ring joining all the pistons for conjoint movement and passing adjacent each piston and engaging slidably with each pin carried block.

2,168,503
PHOTOGRAPHIC ENLARGEMENT DEVICE
James W. Williamson, Greenwich, Conn.
Application July 29, 1938, Serial No. 222,043
3 Claims. (Cl. 88—24)



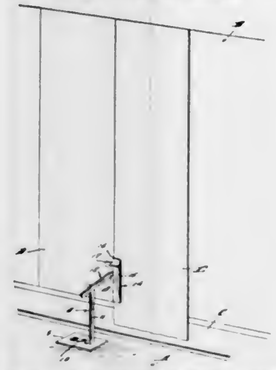
3. In a photographic enlargement device, the combination of a base provided with a series of longitudinal grooves, a series of notches being provided in a wall of each groove; a cover for said base having an aperture; and a table provided with means adapted to retain a sheet of paper thereon and having a series of serrations, one of which is provided with a tongue, said serrations corresponding with said grooves so that the tongue may be positioned in any one of said notches to maintain said table in any one of a plurality of adjusted positions on said base, to expose any one of a plurality of areas of said sheet through said aperture.

2,168,504
COIN HOLDER
William J. Youmans, Fort Thomas, Ky.
Application August 27, 1938, Serial No. 227,171
10 Claims. (Cl. 133—9)



1. A coin holder comprising a tube of sheet material folded flat along a pair of longitudinal folds between which, at each end, the tube has separable edges, and an end-closure member of sheet material, having junctions, one with a middle part only of each of the two edges at one end of the tube, and having a transverse fold substantially midway between its two junctions, said member being folded flat on said fold and extending out from said edges, and the width of each junction and the length of said member between its junctions being so substantially equal to each other and so substantially less than the width between the longitudinal folds of the tube that said flat-folded end-closure member is adapted to unfold upon distension of the tube by pressing toward each other said longitudinal folds thereof, and that, by concentration of pressures at each side of each junction, there is enforced and materially maintained an approximately cylindrical distension of the adjacent end portion of the tube with said end-closure member extended across said end.

2,168,505
WALLPAPER PLACEMENT AND ALIGNING MEANS
Joseph Zenewich, Chicago, Ill.
Application February 21, 1939, Serial No. 257,739
6 Claims. (Cl. 216—4)



3. In a structural assemblage of the class described, a floor stand, an adjustable pointer carried by said stand, and guiding and aligning means detachably applicable to a strip of wallpaper and adapted to abut the pointer.

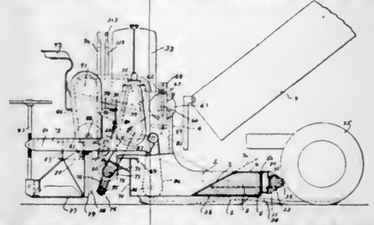
2,168,506
PROCESS FOR TREATING FOOD PRODUCTS
Samuel Henry Ayers and Charles W. Lang, Philadelphia, Pa., assignors to Crown Can Company, a corporation of Pennsylvania
Application January 19, 1938, Serial No. 185,778
11 Claims. (Cl. 99—182)



1. In the art of processing foods in containers each having an end provided with a valve closable by pressure within the container, the steps of vacuumizing the container and contents, and then injecting steam into the container and contents at a temperature and for a time period sufficient to effect sterilization thereof, while maintaining an external pressure about the container so closely approximate to the internal pressure within the container that any pressure therein tending to strain the container is substantially compensated for, whereby undue strain upon the container is prevented.

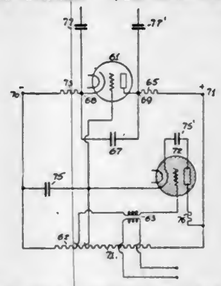
2,168,507
PROPELLING AND FINISHING UNITS
Harry H. Barber, Aurora, Ill., assignor to Barber-Greene Company, Aurora, Ill., a corporation of Illinois
Application December 17, 1936, Serial No. 116,283
22 Claims. (Cl. 94—45)

1. In a road-finishing machine, a pair of ground travelling members, a frame pivoted to said members, means for counter-balancing said frame, a screed rearward of said frame, tampers supported on said screed, side bars pivoted to said screed and connected to said members, and operating



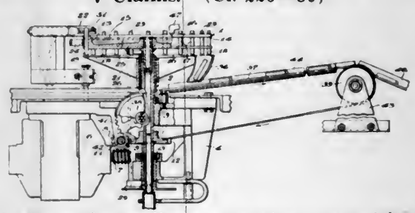
mechanism on said frame connected to said tampers and automatically adjustable for vertical movements of said screed.

2,168,508
RELAXATION OSCILLATION GENERATOR
René Barthelemy, Fontenay aux Roses, France, assignor to Compagnie pour la Fabrication des Compteurs et Materiel d'Usines a Gaz, Montrouge (Seine), France
Application September 24, 1936, Serial No. 102,263
In France October 4, 1935
10 Claims. (Cl. 250—36)



1. Device for the production of relaxation oscillations, comprising a discharge tube, at least a cathode, an anode and a control electrode in said discharge tube, means for impressing impulses of voltage to said control electrode, two terminals to be connected to a feeding source, a first circuit comprising a resistance and connected between one of said terminals and the anode of said discharge tube, and a second circuit identical to said first circuit connected between the other terminal and the cathode of said discharge tube, whereby the time variations of the voltage of the said cathode and of the said anode are symmetrical with respect to the mean feeding voltage.

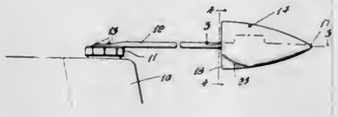
2,168,509
AMPOULE SEALING APPARATUS
Owen G. Bennett, Pittsburgh, Pa., assignor to Catalyst Research Corporation, Pittsburgh, Pa., a corporation of Maryland
Application August 6, 1937, Serial No. 157,646
7 Claims. (Cl. 226—80)



1. Ampoule sealing apparatus comprising a

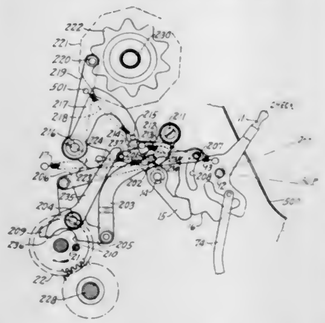
wheel rotatable in a substantially horizontal plane and provided near its periphery with a plurality of vertical openings adapted to receive and carry ampoules having open upper ends, and a torch mounted adjacent the wheel and adapted to direct a flame over one edge of the wheel to seal the upper ends of said ampoules, the top of the wheel being recessed, and means for flowing water through said recessed top to maintain the wheel cool.

2,168,510
HEADLIGHT INDICATOR
Archie E. Benson, Miles City, Mont.
Application April 22, 1937, Serial No. 138,459
7 Claims. (Cl. 240—8.4)



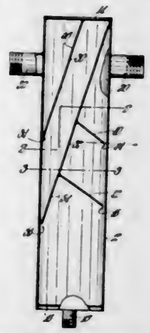
1. A headlight indicator comprising a casing provided with a horizontal partition and a vertical partition extending downwardly therefrom, one end of said casing being open, and light transmitting members mounted in said horizontal partition and having their ends extending toward the open end of said casing.

2,168,511
CASH REGISTER
Friedrich W. F. Berger, Berlin-Neukolln, Germany, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Original application September 5, 1935, Serial No. 39,211. Divided and this application November 11, 1937, Serial No. 173,991. In Germany November 12, 1934
4 Claims. (Cl. 101—93)



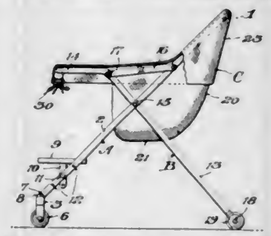
1. In a machine of the class described, the combination of a manipulative member, settable to a plurality of positions, to control machine operations; means operable, during an operation controlled by the member when it is set in one position to shift the member from said one position to another of said positions; a locking means for said member; means for rendering said locking means effective at the beginning of the operation and for rendering it ineffective near the end of the machine operation; and means operable to render the lock ineffective when the member is being shifted during the machine operation.

2,168,512
AIR LINE TRAP
Thomas C. Browning, deceased, late of Springfield, Mass., by Sarah E. Browning, administratrix, Springfield, Mass.
Application November 21, 1938, Serial No. 241,603
2 Claims. (Cl. 183—110)



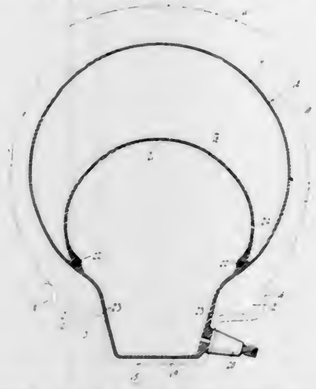
1. The combination in a water trap consisting of a hollow body provided with a drain in its lower end and inlet and outlet openings in the sides thereof adjacent its upper end, of a pair of baffle plates within the body inclining downwardly away from the inlet side thereof towards the outlet side thereof, one of said baffle plates being spaced above and in substantial parallelism with the other and each having an opening therethrough, the upper ends of said baffle plates being secured to the body and their lower ends being spaced from the wall of the body, and a perforated baffle member inclining downwardly away from the lower of said baffle plates towards the inlet side of said body, said baffle member having its upper end secured to the lower side of said lower baffle plate at a point above the opening therein and its lower end being spaced from the wall of the body, all adapted and arranged whereby air forced into said inlet may pass downwardly through the perforations in said baffle member and through the opening in said lower baffle plate and upwardly in the space between the baffle plates and out through the opening in the upper baffle plate and then out said outlet.

2,168,513
BABY CHAIR
Fannie Mae Cobb, Smyrna, Ga.
Application July 11, 1936, Serial No. 90,134
3 Claims. (Cl. 155—124)



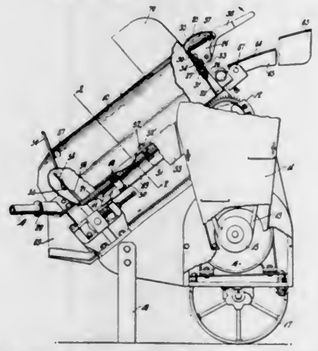
1. A chair of the character described, including a pair of inverted crossed substantially U-shaped frames pivotally connected together, one of said frames having its bight portion bent at an angle to the sides thereof, folding brace members connecting the sides of the frames for limiting movement of the frames away from each other, a fabric seat and back supported by the frames including a forward extension providing a tray portion supported by the angularly bent portion of the said one of the frames, and a transverse brace member connecting the sides of the last named frame and extending through a fold connecting the tray portion to the seat portion.

2,168,514
SAFETY TUBE
Burgess Darrow, Akron, Ohio
Application September 23, 1938, Serial No. 231,375
6 Claims. (Cl. 152—342)



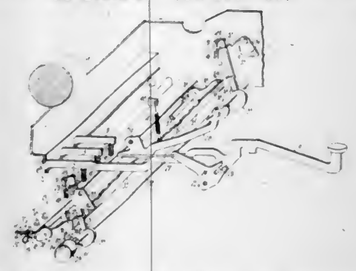
6. A tube of the character described comprising inner and outer circumferential compartments, the outer wall of said inner compartment comprising rubberized restraining elements, and extensible, floating beads in said wall to which the extremities of said restraining elements are secured.

2,168,515
APPARATUS FOR TREATING AND BLENDING MOLDER'S SAND
Stanley B. Davies, Kingston, Pa., assignor to Royer Foundry and Machine Co., Kingston, Pa., a corporation of Pennsylvania
Application May 24, 1935, Serial No. 23,300
6 Claims. (Cl. 209—92)



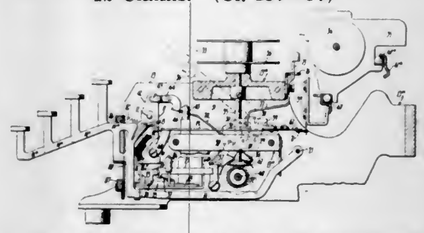
1. In a sand treating apparatus, a sand treating belt, a hopper for directing sand to the belt, one wall of said hopper comprising a plurality of individually pivotally mounted blades, the lower ends of which are normally positioned closely adjacent the belt and adapted to yield in the direction of travel of the belt, means for bodily adjusting said blades as a unit in the direction of their length to vary the distance normally separating their lower ends from the belt, means for individually adjusting each blade in the direction of its length, and means for quickly moving all of said blades about their pivots as a unit out of operative position adjacent the belt.

2,168,516
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application March 18, 1936, Serial No. 69,537
18 Claims. (Cl. 197—33)



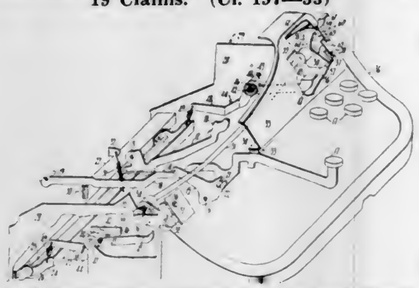
1. A typewriter comprising, in combination, key-levers, a universal bar extending across and beneath said key-levers and depressible by said key-levers, a spring centrally connected with said bar and operable to resist the depression of said bar and to return the bar to normalcy, a pair of springs which become effective simultaneously, whereby skewing or warping of the universal bar is prevented, after a predetermined movement of depression of a key-lever, and means for simultaneously adjusting said pair of springs to vary their tension.

2,168,517
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application May 18, 1936, Serial No. 80,228
12 Claims. (Cl. 197—97)



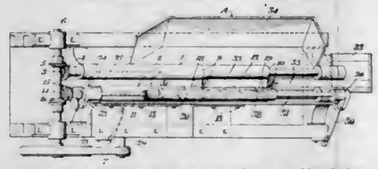
1. In a typewriting machine, the combination with a plurality of pivoted key-levers having wiping-action cams, of a universal bar pivoted to swing at right angles to the direction of movement of the key-levers at their cams, the inclination of the cams being at a medial angle with the directions of movement of the key-lever and the universal bar, said universal bar having a cushion thereon upon which said key-lever cams have wiping action, said cams being individually adjustable with respect to said universal bar.

2,168,518
TYPEWRITING MACHINE
William A. Dobson, Wethersfield, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware
Application October 1, 1936, Serial No. 103,474
19 Claims. (Cl. 197—33)



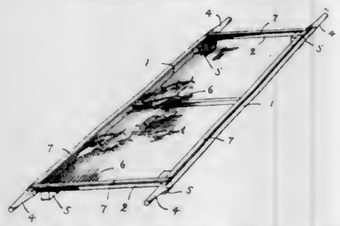
1. A typewriter comprising, in combination, key-levers, a universal bar movable by the key-levers, lever-arms, a pair of springs connecting said universal bar and lever-arms for movement in unison without tensioning said springs, and a manually-operable device controlled from the front of the typewriter for limiting the movement of said lever-arms, whereby the springs will be tensioned simultaneously by movement of the universal bar.

2,168,519
MACHINE FOR ASSORTING CYLINDRICAL ARTICLES BY DIAMETER
Clarence J. Du Brul, Cincinnati, Ohio
Application February 12, 1937, Serial No. 125,391
11 Claims. (Cl. 209—107)



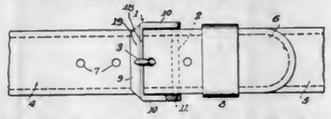
1. In a machine for assorting cylindrical articles, a pair of guide members spaced apart to form a downwardly opening gauging slot, means positioned above said guide members and adapted to engage the articles turning to a relatively upright position in said slot to eject them, and means for actuating said engaging means.

2,168,520
RACK FOR FREEZING FISH
Frank E. Fregeau, Duluth, Minn., assignor to Northern Cold Storage and Warehouse Company, Duluth, Minn., a corporation of Minnesota
Application February 2, 1938, Serial No. 188,353
1 Claim. (Cl. 294—15)



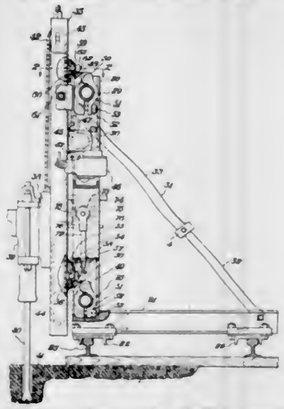
A rack for fish comprising a series of rectangular frames, each having handles beyond the ends thereof, legs secured within the inner four corners of the frame having their upper ends below the upper edge of the frame and extending some distance below the lower edge of the frame, and an open wire netting secured within the frame below the upper edge and in a plane with the flat upper end of the legs and resting thereon, whereby a series of frames may be stacked, the lower ends of the legs of one frame resting upon the upper ends of the legs of the next frame below and held against lateral movement, forming a rack with a series of shelves supported in effect by four vertical corner posts inside the frames.

2,168,521
BUCKLE FOR STRAPS
Charles B. Greenberg, New York, N. Y.
Application March 10, 1937, Serial No. 130,108
2 Claims. (Cl. 24—178)



1. A buckle frame comprising a back member and side arms extending from the ends of the back member, said back member including a lower face and a front face, said arms being vertically materially thicker than the back member and projecting below the lower face thereof to provide a guideway for a strap adapted to be carried by the buckle, said arms having face portions at the rear ends thereof disposed rearwardly of the front face of the back member and in perpendicular relation to the lower face of the back member.

2,168,522
MOUNTING FOR ROCK DRILLS
Dudley W. Hart and Mason F. Behney, Phillipsburg, N. J., assignors to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application April 15, 1938, Serial No. 202,181
6 Claims. (Cl. 255—51)

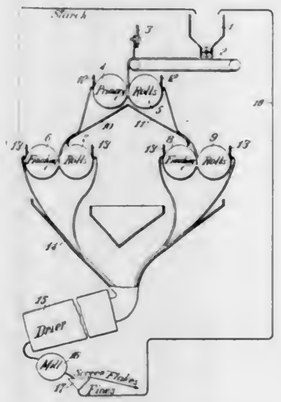


1. A mounting for rock drills, comprising a frame having a pair of guide members, a column, bearings on the guide members pivotally connected to the column and adjustable longitudinally along the guide members, and means forming a slide connection between the column and one of the bearings.

2,168,523
PROCESS FOR TREATING SEEDS, BULBS, TUBERS, AND ROOTS
George Edward Heyl, Mill Hill, London, England
No Drawing. Application February 26, 1938, Serial No. 192,889. In Great Britain July 2, 1936
4 Claims. (Cl. 47—58)

1. A method of treating seeds, consisting in applying more than one coating of preserved latex containing an organic dye and an organic compound to alter the color and smell of the flowers produced therefrom.

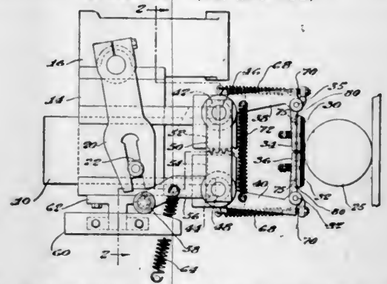
2,168,524
METHOD OF TREATING STARCH
Anthony C. Horesi, Berwyn, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
Continuation of application Serial No. 26,397, June 13, 1935. This application September 21, 1936, Serial No. 101,802
8 Claims. (Cl. 127—32)



1. Method of making dustless grits consisting of raw starch and a small quantity of gelatinized starch which method comprises: passing starch in a moist state, at the rate of about 100 feet per minute, between a pair of primary rolls internally heated with steam at about 50 pounds pressure per square inch and set apart to form the starch into coherent sheets adhering to the rolls having a thickness of about $\frac{1}{16}$ of an inch; stripping the sheets separately from the primary rolls and causing them to pass separately between finishing rolls heated to about 160 pounds pressure per square inch and set apart to form sheets about $\frac{40}{1000}$ of an inch thick; and stripping the material from the finishing rolls and drying and comminuting it.

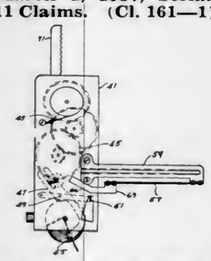
8. Apparatus for treating starch comprising in combination a pair of heated primary rolls; two pairs of heated finishing rolls; means for stripping the material separately from the primary rolls and conducting the material from one primary roll to the bight of one of the pairs of finishing rolls and the material from the other primary roll to the other pair of finishing rolls; and means for stripping the material from the secondary rolls.

2,168,525
LABELING MACHINE
Stanley R. Howard, Milton, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts
Application December 30, 1937, Serial No. 182,505
10 Claims. (Cl. 216—35)



10. In a labeling machine, in combination, container supporting means, a pair of pivotally mounted label pressing members, means for relatively moving the container supporting means and said pressing members to perform the pressing operation with a small area of contact between the pressing members and the container, and means for controlling the pivotal movement of the pressing members to cause said areas of contact to progress laterally during the pressing operation.

2,168,526
UNITARY THERMALLY RESPONSIVE TIMING MECHANISM
Murray Ireland, St. Paul, Minn., assignor to McGraw Electric Company, Chicago, Ill., a corporation of Delaware
Application March 1, 1937, Serial No. 128,402
11 Claims. (Cl. 161—1)

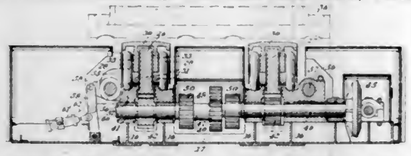


2. A unitary thermally-responsive timing mechanism for causing other mechanism to operate after a time interval and comprising a mechanical timer, a bracket immovably secured to said timer and supported solely thereby, a thermally-actuable element fixedly mounted on said bracket out of close heat-interchanging relation with said timer and means on said timer actuable by said thermally-actuable element and constructed and arranged to cause the timing mechanism to provide a shorter time interval when the thermally-actuable element is hot than when it is cold.

2,168,527
ANNEALING PLANT
Lorenz Iversen, Pittsburgh, Pa., assignor to Mesta Machine Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application January 25, 1937, Serial No. 122,132
5 Claims. (Cl. 214—26)

1. A charging car comprising a wheeled frame

adapted to travel along spaced rails, tracks disposed in spaced parallel relation on said frame transversely of said rails, trucks movable along said tracks, each of said trucks including an elongated bearing member extending along said tracks and having inclined lower surfaces, a rack bar provided with rollers traveling on said tracks and discs engaging said surfaces, pinion shafts journaled near each side of said car having pinions thereon meshing with said rack bars, where-



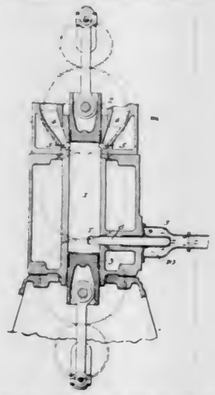
by said trucks may be run out to either side of said car onto tracks in alignment with those before mentioned, power means for driving said shafts mounted on said frame below the level of said members and offset therefrom, and locking means pivoted on said frame for engagement with said bearing members to hold them against longitudinal movement while said rack bars are moved thereunder to raise or lower said bearing members by movement of said inclined surfaces.

2,168,528

EXHAUST PASSAGE OF TWO-STROKE INTERNAL COMBUSTION ENGINES

Michel Kadenacy, Paris, France

Application October 25, 1935, Serial No. 46,805
In Great Britain November 8, 1934
3 Claims. (Cl. 60—32)



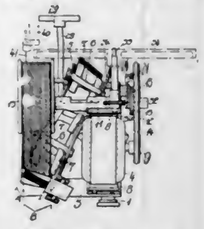
1. A two-stroke cycle internal combustion engine, wherein the burnt gases are discharged from the cylinder into an exhaust conduit substantially as a mass whereby the said mass moves outward and thereafter returns towards the cylinder from a point which may be within the said exhaust conduit, the said conduit providing a free passage for the burnt gases to the limit of outward travel of said mass, and wherein an inlet is opened for the introduction of fresh charge while the exhaust port is still open and when the said issuance of the burnt gases is in full progress and causes a suction effect to be exerted in the cylinder, having means on the exhaust system for modifying the action of the said mass on the gases in the exhaust pipe, and the action of the return of the burnt gases upon the cylinder contents, the said means comprising a chamber other than the engine cylinder in open communication with the exhaust conduit at a point situated nearer the cylinder than the limit of outward travel of the burnt gases upon their mass exit from the cylinder, whereby upon the opening of the exhaust orifice for the discharge of the mass of burnt gases, the said mass is directed past the said communication during its outward motion, so that there is first an increase in pressure in the exhaust pipe adjacent the cylinder, which is transmitted through the gases contained in the exhaust pipe to the gases contained in said chamber, and thereafter a depression is formed in the cylinder and in the exhaust pipe adjacent the cylinder followed by a depression in the said chamber, and returning gases enter the said chamber, which is then at a lower pressure than the engine cylinder and the exhaust pipe adjacent the engine cylinder.

2,168,529

GRAMOPHONE FOR PLAYING RECORDS OF AN ENDLESS FILM

Shozo Konishi, Kami-mura, Japan, assignor to Nippon Filmon Kabusiki Kaisya, Tokyo, Japan, a corporation of Japan

Application June 23, 1937, Serial No. 150,006
In Japan May 28, 1934
4 Claims. (Cl. 274—11)



1. A gramophone for playing coiled endless records comprising a sound box, a needle carried by said sound box, a reel having an inner space for rotatively supporting a coiled record thereon, a feed pulley for withdrawing the inner turn of the coiled record and sending it back to its outer turn, said reel and pulley being positioned so that their planes make an acute angle with each other and the lowermost part of the pulley's periphery being located in said inner space of the reel so that lines drawn along the ends of the record on the reel intersect other lines drawn along the edges of the record on the feed pulley at points near the outer circumference of the coiled record on the reel, and said needle cooperating with that portion of the record on said pulley.

2,168,530

METHOD OF AND MEANS FOR MAKING DENTURES

Prodromus M. Kyprie, Detroit, Mich.

Application September 6, 1938, Serial No. 228,504
8 Claims. (Cl. 32—2)



1. The method of making dentures which includes, approximately establishing the relationship between the upper and lower mandibles in their normal closed position, approximately setting the posterior teeth of the upper and lower dentures in accordance with this relationship, providing the posterior teeth of one of the dentures with a cuspal carving edge and replacing the posterior teeth of the other denture with a carvable material, and setting the dentures in motion according to habitual mandibular movements for causing the carving edge to carve a record on the carvable material of and in accordance with said mandibular movements.
mandibular movements.

5. A trial tooth for use in the manufacture of a denture comprising, a tooth body having a cuspal formation, a slot through said body at said cuspal formation, and a cutting tool removably disposed in said slot and terminating at said cuspal formation.

2,168,531

LOW DENSITY CELLULOSE MATERIALS

Bruce W. Manning, Grafton, Ill., assignor to Illinois Powder Manufacturing Co., St. Louis, Mo., a corporation of Illinois

No Drawing. Continuation of application Serial No. 53,598, December 9, 1935. This application October 25, 1937, Serial No. 170,858
8 Claims. (Cl. 52—11)

1. A bulking material adapted as an absorbent for use in explosives, and consisting essentially of cellulose, and including in substantial part, the purified and ground pith of a plant of the family Malvacae.

7. An explosive composition comprising a liquid explosive nitric ester and mallow pith.

2,168,532

PELLETING OF MATERIALS

Charles W. McMath and Logan Chester Roots, Jr., Fort Worth, Tex., assignors to Traders Oil Mill Company, Fort Worth, Tex., a corporation of Texas

No Drawing. Application August 10, 1937, Serial No. 158,394
12 Claims. (Cl. 99—2)

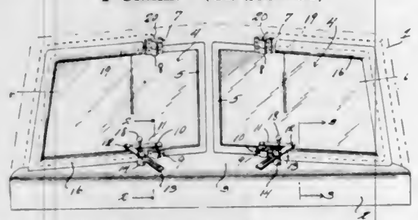
1. A process for converting a meal, plasticizable when moist and heated, into pellet form by extrusion, which includes the step of incorporating acetone insoluble matter derived from crude expressed vegetable oil in to the meal prior to extrusion.

2,168,533

VEHICLE WINDSHIELD

Faris Nickola, Flint, Mich.

Application January 15, 1938, Serial No. 185,236
1 Claim. (Cl. 296—84)



A windshield structure, comprising a frame enclosing a transparent panel, a pair of hinge units disposed at opposite sides of said frame to facilitate swinging the same with respect to an encircling structure, one of said hinge units having an elongated pintle, a bar secured at one end to said pintle, a post mounted adjacent said frame, a pin threadably secured vertically in said post, a longitudinally slotted bar having said pin slidably extended through the slot thereof, said bar having pivotal connection at one end with the other end of the first-mentioned bar and a handle carried by said first-mentioned bar between its point of connection with the pintle and its point of connection with the slotted bar, said first-mentioned bar extending parallel with said frame and adapted when swung to turn the pintle and frame on said hinge units, said slotted bar extending away from a side of the panel and being adapted to be secured in an adjusted position with respect to said post.

2,168,534

PROCESS OF WATERPROOFING TEXTILE MATERIAL AND THE MATERIAL THUS OBTAINED

Joseph Nuesslein and Georg von Finck, Frankfort-on-the-Main, and Hermann Stärk, Bad Soden in Taunus, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application April 28, 1937, Serial No. 139,480. In Germany April 29, 1936
11 Claims. (Cl. 91—68)

1. The process of water-proofing textile materials which comprises treating textile materials with mixed polymerizates containing at least one aliphatic radical with at least 10 carbon atoms being composed of a compound selected from the group consisting of maleic anhydride and compounds of the formula

$$\begin{matrix} CH{-}R_1 \\ \| \\ CH{-}R \end{matrix}$$

R_1 and R_2 standing for members of the group consisting of COOH, COO.alkyl, CN, $CONH_2$, and of olefinic compounds capable of being polymerized, and with a compound containing at least 10 carbon atoms selected from the group consisting of aliphatic hydrocarbons, aliphatic alcohols and ethers, aliphatic carboxylic acids, their esters, anhydrides, amides, methylol amides and isocyanates, and halogen derivatives of the said compounds and drying said textile materials whereby water-proofing thereof results, the water-proofing being due to the conjoint action of said mixed polymerizates and said compound containing at least 10 carbon atoms.

2,168,535

TEXTILE MATERIAL AND A PROCESS OF PREPARING IT

Josef Nuesslein and Georg von Finck, Frankfort-on-the-Main, and Hermann Stärk, Bad Soden in Taunus, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application November 12, 1938, Serial No. 240,044. In Germany April 29, 1936
8 Claims. (Cl. 91—70)

1. A process of imparting water-repellency to textile material by impregnating the textile material with a condensation product of a tertiary amine with an alpha-halogen ether of the formula:

$$\begin{matrix} R.O.CH.R' \\ | \\ X \end{matrix}$$

wherein X stands for halogen, R.O stands for the radical of an alcohol containing at least 12 carbon atoms, R' stands for a member of the group consisting of hydrogen and aliphatic, aromatic, araliphatic and cycloaliphatic hydrocarbon radicals, and with a mixed polymerizate containing at least one aliphatic radical with at least 10 carbon atoms being composed of a compound

selected from the group consisting of maleic anhydride and compounds of the formula:

$$\begin{matrix} CH{-}R_1 \\ \| \\ CH{-}R_2 \end{matrix}$$

R_1 and R_2 standing for members of the group consisting of COOH, COO.alkyl, CN, $CONH_2$, and olefinic compounds capable of being polymerized, and heating the impregnated textile material at an elevated temperature whereby water-proofing thereof results, the water-proofing being due to the conjoint action of said mixed polymerizate and said condensation product of a tertiary amine with an alpha-halogen ether.

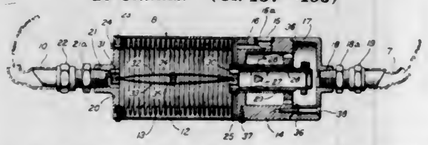
2,168,536

PRESSURE REGULATING DEVICE FOR AIRCRAFT INSTRUMENTS

Dimitry E. Olshevsky, East Orange, N. J., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application January 21, 1937, Serial No. 121,711

10 Claims. (Cl. 137—153)



1. In a pressure regulator system for aircraft instruments adapted to be placed between the pump and instruments, a casing, a bellows open to the atmosphere on one side thereof and subject to the pressure to be regulated on the other side thereof, valve means connected to said bellows to be actuated thereby, means exerting a resistive force against the movement of said bellows, said means comprising two oppositely convex leaf springs, means constraining said springs to their convexity whereby said springs exert a resistive force of a corresponding threshold value, said valve means being actuated by said bellows against the longitudinal compression of said leaf springs.

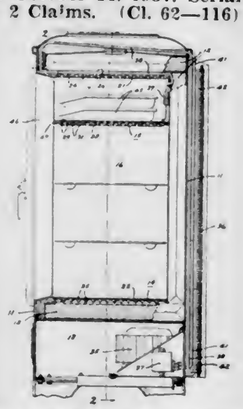
2,168,537

REFRIGERATING APPARATUS

Frank R. Pierce, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 14, 1937, Serial No. 168,949

2 Claims. (Cl. 62—116)



1. Refrigerating apparatus comprising in combination, a cabinet having a chamber therein, a unitary member encircling said chamber and providing a refrigerant evaporator of a primary refrigerating system and a closed secondary refrigerating system, said unitary member having integral portions thereof extending across said chamber and dividing same into upper and lower food storage compartments, said integral portions of said unitary member having parts thereof spaced apart to provide a passageway therebetween, means disposed within the passageway provided between said integral portions of said member to divide the passageway into sets of passages sealed from one another, said means being constructed and arranged to provide communication between said refrigerant evaporator of said primary refrigerating system and one set of said passages and to provide communication between said secondary refrigerating system and the other set of said passages, and said means positioning a part of the refrigerant evaporator of said primary refrigerating system in intimate thermal contact with a part of said secondary refrigerating system to provide with said integral portions of said unitary member a heat exchanger between said systems.

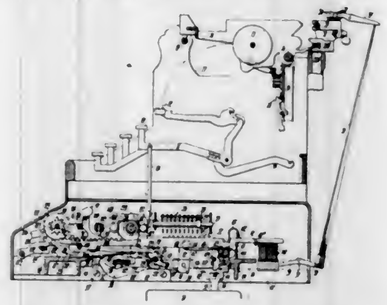
2,168,538

COMBINED TYPEWRITING AND COMPUTING MACHINE

Henry L. Pitman, Hartford, Conn., assignor to Underwood Elliott Fisher Company, New York, N. Y., a corporation of Delaware

Original application March 25, 1932, Serial No. 601,173. Divided and this application March 12, 1937, Serial No. 130,535

2 Claims. (Cl. 235—60)



1. In a computing machine; a reciprocatory register bar having a normally set zero pin and a normally unset higher pin, said zero pin being restorable concomitantly with the setting of the higher pin, said register bar being slightly advanceable from a normal position preparatory to effecting pin setting, a reciprocatory general operator for engaging the set higher pin and advancing said register bar, during a cycle of said general operator, after the pin-setting operation, said register bar being restored to normal position at the end of the cycle, a stop for confronting the set pin to counteract undue advance of the register bar by the general operator in said cycle, said stop being normally retracted from an effective position to permit the slight advance of the register bar for pin setting, said stop in its effective position confronting the zero pin when said register bar is in normal position, and means cooperative with said general operator to place automatically said stop in effective position during said cycle.

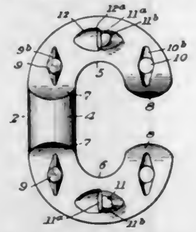
2,168,539

CHAIN REPAIR LINK

Charles F. Reynolds, Cleveland, Ohio, assignor to The Eastern Malleable Iron Company, Naugatuck, Conn., a corporation of Connecticut

Application August 26, 1938, Serial No. 226,923

1 Claim. (Cl. 59—87)



A repair link for chains comprising complementary cast malleable sections in face to face relation, each section being closed along one side and open at the other, the closed side of each section having a thick middle portion adapted to fill the opening in the other section, each section having end portions which over-lap the corresponding portions of the other section, these end portions being of reduced thickness so that a transverse section through the link in the thick middle portion of the section is substantially the same as the thickness of the link where the two sections over-lap, each of the sections having rivet pins thereon, the over-lapping part of the other section having registering openings through which the pins pass, said pins at their base and throughout a portion of their height being elongated in the direction of the longitudinal axis of the link, each section also having a dowel and a dowel-receiving recess in the end portion on that face which contacts the over-lapping end portion of the other section, the dowel being a projection having a flat face substantially parallel with the longitudinal axis of the link and in substantially the plane of said axis, the dowel having a substantially perpendicular flat face transverse to the longitudinal axis of the link and which resists relative longitudinal movement of the two sections, the dowel-receiving recess being shaped for cooperation with the dowels and being provided with flat wall portions to engage said flat faces.

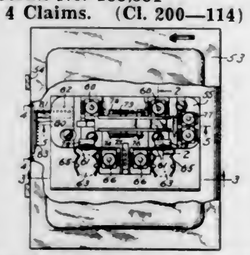
2,168,540

ELECTRIC SWITCH

Joseph Sachs, West Hartford, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Original application April 13, 1937, Serial No. 136,629. Divided and this application January 4, 1938, Serial No. 183,331

4 Claims. (Cl. 200—114)



1. An electric switch assembly comprising in combination, a casing, a switch mounted in the casing and including a stationary base having an edge surface, and at least one pair of cartridge type fuse clips mounted on the base and projecting from said edge surface so as to receive a fuse with its longitudinal axis extending perpendicularly to the rear of said casing and to electrically connect the fuse in series with said switch, operation of said switch serving to open and close the circuit through the fuse.

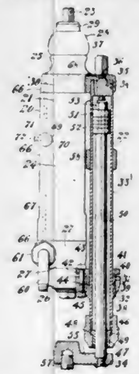
2,168,541

ROCK DRILL

Fred M. Slater, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey

Application July 26, 1938, Serial No. 221,322

10 Claims. (Cl. 121—9)



1. A rock drill, comprising a percussive element having a plurality of casing parts, a feeding device for the percussive element comprising a plurality of telescopically arranged members and one of said members serving to secure the casing parts together.

2,168,542

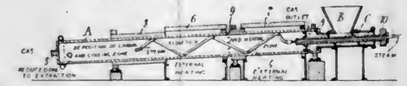
PROCESS FOR EXTRACTING ORES AND THE LIKE

Adriaan Cornelis van Es, Huizen, Netherlands, assignor to N. V. Maatschappij Voor Zwavelzuurbereiding Voorheen G. T. Ketjen & Co., Amsterdam, Netherlands

Application November 3, 1938, Serial No. 238,671

In the Netherlands December 24, 1935

9 Claims. (Cl. 75—117)



1. The process of extracting metals selected from a group consisting of copper and cobalt from their oxide, silicate and roasted sulfide ores which comprises heating such an ore with a reducing gas containing steam at such temperatures and for such time that only the said metals are reduced to the metallic state while iron and metals having a higher heat of combustion than iron are retained in the oxidized state and recovering the so-reduced metals from the product.

2,168,543

CONTAINER FORMING MACHINE

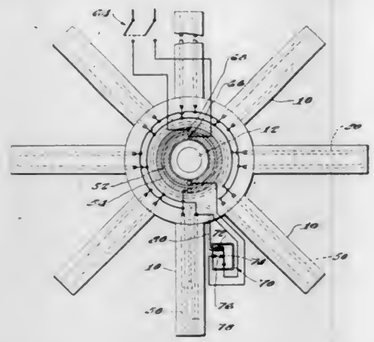
John G. Vergobbi, Quincy, Mass., assignor to Pneumatic Scale Corporation, Limited, Quincy, Mass., a corporation of Massachusetts

Application November 2, 1936, Serial No. 108,828

3 Claims. (Cl. 93—44.1)

1. In a machine for making carton liners, in

combination, a forming block of a rectangular shape in section, mechanism for wrapping a wrapping sheet about the forming block with portions thereof overlapping, means for pressing the overlapping portions against the block to seal the same, means for heating the forming block to



assist in sealing the overlapping portions of the wrapped sheet, and control mechanism for controlling the operation of said heating means to prevent over-heating of the forming block, including a heat responsive element disposed within said block.

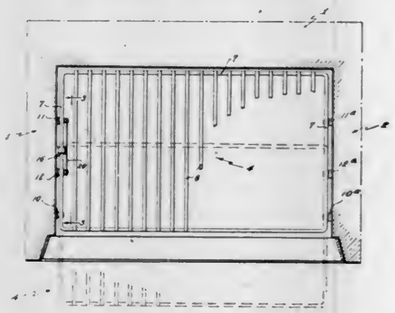
2,168,544

SHELF ARRANGEMENT

Lyman F. Whitney, Cambridge, Mass., assignor, by mesne assignments, to Stator Corporation, a corporation of Rhode Island

Application March 29, 1938, Serial No. 198,637

3 Claims. (Cl. 211—143)



1. In a housing having opposite side walls, a shelf mounted for slidable movement between said walls, supporting means upon one of said walls slidably supporting the corresponding side of the shelf, two spaced supports projecting inwardly from the opposite wall and slidably supporting the corresponding side of the shelf, an upper protuberant element projecting inwardly from the last-named side wall over the space between the said supports, said element being adapted to engage the rear portion of the shelf to act as a stop and limit the outward movement of the shelf when the latter is slid outwardly substantially within its own plane, and a retainer normally positioned below said element and constraining the shelf to follow a path within its own plane, said retainer being removable from its normal position to permit the shelf to be tipped relative to its normal plane so that its rear portion may clear the protuberant element and the shelf may then be removed from the housing.

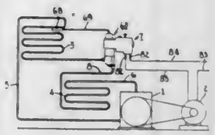
2,168,545

CONTROL DEVICE

Daniel D. Wile, Detroit, Mich., assignor to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan

Application October 7, 1936, Serial No. 104,367

16 Claims. (Cl. 62—4)



1. A control device for a refrigerating apparatus having a refrigerant evaporator and a refrigerant medium supply means therefor comprising, a thermostatic expansion valve operable in response to the temperature of the evaporator for controlling the admission of the refrigerant medium thereinto and including a power element, control means controlling the operation of the refrigerant medium supply means, and a lever member operatively connecting said power element and said control means, said power element acting through said lever member to actuate said control means.

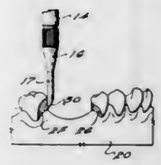
2,168,546

METHOD OF PREPARING DENTURES

Noble G. Wills, Connersville, Ind.

Original application August 6, 1934, Serial No. 738,612. Divided and this application July 12, 1937, Serial No. 153,120

2 Claims. (Cl. 32—5)



2. In the process of preparing a denture model for the reception and retention of a partial denture, the steps which include mounting a master model in movable juxtaposition to a surveying instrument, moving the model during the surveying process to locate undercuts suitable and unsuitable for retention of the denture, filling in the unsuitable undercuts, and preparing a duplicate model of said filled-in master model.

2,168,547

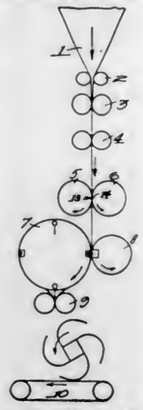
PAGE PASTING MECHANISM

Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia

Application April 10, 1935, Serial No. 15,564

5 Claims. (Cl. 270—5)

1. In a newspaper folder, the combination of means for folding the newspapers, a needle for perforating the sheets of the newspapers, located in a position to perforate them at the fold line,



and means for extruding an adhesive through said needle in the perforations.

2,168,548

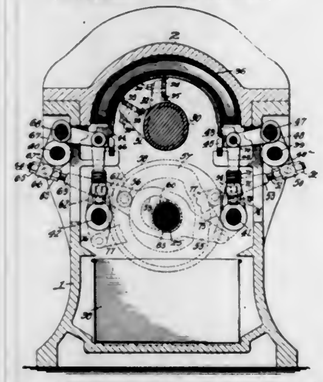
STEREOTYPE PLATE FINISHING AND COOLING MACHINE

Henry A. Wise Wood, New York, N. Y., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia

Application November 24, 1934, Serial No. 754,579

Renewed July 18, 1938

9 Claims. (Cl. 29—21)



1. In a stereotype plate cooling machine, the combination of an arch having an internal configuration for fitting the exterior of a shaved printing plate, a saddle in the arch having an outer surface for fitting the interior of the shaved printing plate, means for moving the plate between the saddle and arch longitudinally, means for then contracting the plate by moving its opposite edges toward each other, means for moving the saddle radially fully into the arch to clamp the plate thereagainst, means for cooling the plate, means for withdrawing the saddle, means for again operating the contracting means to contract the plate, and means for moving the plate out of the arch.

2,168,549

CORE FIN BINDER STRIP

Fred M. Young, Racine, Wis.

Application May 28, 1937, Serial No. 145,181

4 Claims. (Cl. 257—124)

1. A device of the class described, comprising a number of tubes being positioned in one or more rows, a multiplicity of closely spaced fins secured to said tubes forming a core, said fins having on their narrow edges under-cut portions



forming trenches, plates adapted to cover said trenched edges and having formed projections adapted to be embraced by the sides of said trenches.

2,168,550

SOLUTION FOR PROPAGATION OF PLANTS

Percy W. Zimmerman and Albert E. Hitchcock, Yonkers, N. Y., assignors to Boyce Thompson Institute for Plant Research, Inc., Yonkers, N. Y., a corporation of New York

No Drawing. Application November 20, 1937, Serial No. 175,590

10 Claims. (Cl. 71—2)

1. A concentrated composition suitable for use in the propagation of plants comprising an alcoholic solvent containing in solution a root-growth substance of the group consisting of indoleacetic acid, indoleproprionic acid, indolebutyric acid, indolevaleric acid, naphthaleneacetic acid, phenylacetic acid, and esters and salts thereof, said root-growth substance being present in the composition in a concentration not substantially less than about 2 milligrams per cubic centimeter on the basis of the alcoholic solvent in its pure form, and said composition being prepared and packaged for use upon dilution as a root-growth stimulant in the propagation of plants.

2,168,551

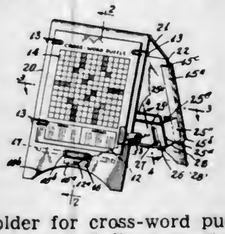
HOLDER FOR CROSS-WORD PUZZLES

Harry Alexander, New York, N. Y.

Application April 1, 1937, Serial No. 134,259

Renewed December 29, 1938

4 Claims. (Cl. 281—1)



1. In a holder for cross-word puzzles a table forming member pivotally connected at its top edge with a spacer member, a flat support member pivotally connected at its top edge with said spacer member, means for limiting the separating of said table member and said support member, and an extended collapsible receptacle mounted on the inner face of said support member.

2,168,552

AUTOMATIC LIQUID VENDER

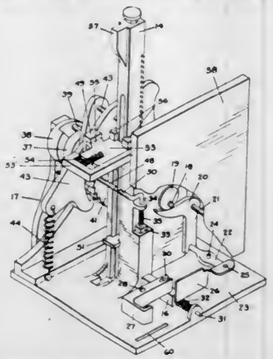
John M. Alexander, Lincoln, Nebr.

Application December 27, 1937, Serial No. 181,807

5 Claims. (Cl. 221—102)

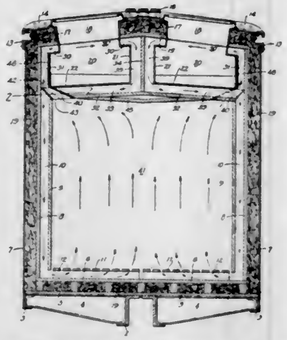
1. In a liquid dispensing apparatus, a pump having a cylinder and a piston with a piston rod, said piston rod being provided with a notch adjacent one extremity thereof, a spring pressed detent adapted to seat in the notch of said piston

rod for releasably latching said piston against movement, linkage for withdrawing said detent from the notch of said piston rod, a lever for rocking said linkage, means for interrupting said linkage after said detent has been withdrawn from the latch, a shoulder on said detent, a second



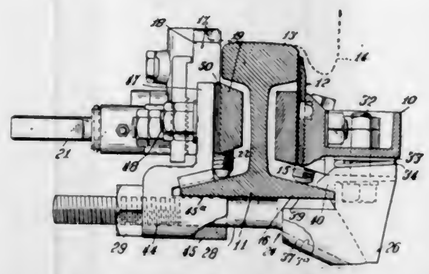
spring pressed detent adapted to seat against said shoulder to hold the first said detent in inoperative position, and means operable by said piston rod at the end of the discharge stroke of said piston for releasing said second detent to permit the seating of the first said detent in the notch of said piston rod.

2,168,553
REFRIGERATOR CAR
Wallace E. Baillie, McDonald, Pa., assignor to Standard Railway Refrigerator Company, Chicago, Ill., a corporation of Delaware
Application October 8, 1938, Serial No. 233,908
8 Claims. (Cl. 62—17)



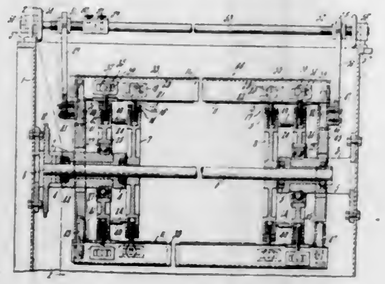
1. In a refrigerator car having a lading compartment, insulated walls, roof and floor, a foraminous floor supported above said insulated floor to provide a space therebetween, and a refrigerant container below said roof in spaced relation thereto and to one of said walls to provide air channels therebetween, the combination of a vertical flue associated with one of said walls, a partition below said container and spaced therefrom to provide a passage communicating with said flue, a duct crossing said passage and being non-communicative therewith, said duct communicating between said lading compartment and said channels so that air may circulate from said lading compartment respectively through said duct, said channels, said passage, said flue and said space to said lading compartment.

2,168,554
SUPPORTING CLAMP FOR TRACK LUBRICATORS
Sidney E. Bates, Chicago, Ill., assignor, by mesne assignments, to Poor & Company, a corporation of Delaware
Application June 15, 1936, Serial No. 85,348
8 Claims. (Cl. 184—3)



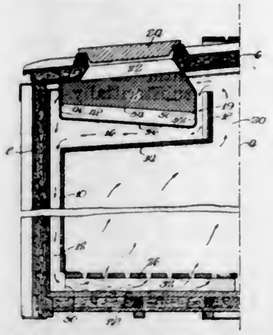
1. A clamp device for securing rail and wheel flange lubricating mechanisms on a railroad rail comprising: a jaw member recessed to receive one edge of a rail base flange and having a portion for attachment to a part of said mechanism, a jaw member formed with portions for gripping the top and bottom surfaces of the base flange at the other side of the rail, and connecting means for forcing said jaws into tight gripping engagement with the rail comprising a bolt member formed with a tapered portion adapted to wedge between the rail base and one of said jaw members.

2,168,555
CONTINUOUS CONVEYING APPARATUS
Harold T. Battin, Ridgewood, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application November 20, 1937, Serial No. 175,662
8 Claims. (Cl. 242—53)



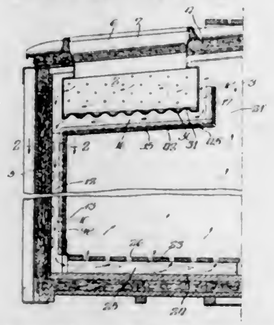
7. In a drum for conveying continuous material, a plurality of systems of interleaved slats, an arm pivoted to each slat, each of said systems revolving about a fixed axis parallel to that of another system and comprising a material engaging surface of the drum during a part of its revolution, and independent reciprocating means comprising an inclined guide track engaging the arms extending from the slats in one of said systems for imparting a longitudinal movement to said system of slats.

2,168,556
REFRIGERATOR CAR
Charles D. Bonsall, Pittsburgh, Pa., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application November 22, 1937, Serial No. 175,761
8 Claims. (Cl. 62—16)



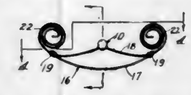
1. In a refrigerator, the combination of a vertical wall, a vertical flue associated with said wall, a refrigerant container adjacent said wall, and an insulated partition below said container and spaced therefrom to provide a substantially horizontal flue communicating with said vertical flue, the bottom and lower parts of the sides of said refrigerant container being solid with the upper parts of said sides being foraminous, the upper edge of the solid part of the container being furthest from said refrigerator wall being lower than the upper edge of the solid part of any other side thereof, whereby a liquid refrigerant in said container will spill over said lowest edge and pass through said horizontal flue.

2,168,557
TOP BUNKER REFRIGERATOR CAR
Charles D. Bonsall, Pittsburgh, Pa., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware
Application November 22, 1937, Serial No. 175,762
12 Claims. (Cl. 62—16)



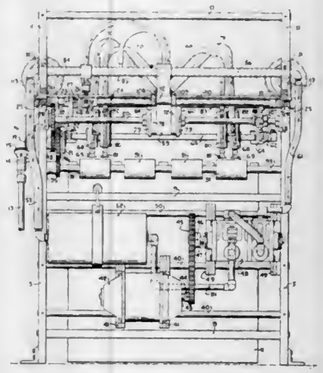
1. In a refrigerator car having a roof having a hatchway therein, a wall having a vertical flue associated therewith, an ice container positioned below the hatchway, and a drip pan positioned below and spaced apart from the container to provide a horizontally disposed flue sloping toward and communicating with said vertical flue whereby air in the horizontally disposed flue being cooled and densified by a refrigerant in the refrigerant container is caused to descend through the vertical flue, the bottom of said container being formed so that part of the melted ice will pass therethrough to the drip pan and part of the melted ice will be retained in the container.

2,168,558
REBOUND SPRING
Charles E. Caestecker, Chicago, Ill.
Application June 27, 1938, Serial No. 216,009
9 Claims. (Cl. 267—1)



1. A device of the class described, comprising an upright support adapted to be mounted in upright position on the playing field of a "pin ball" game, and a laterally extending impact member carried by the support and comprising an elongated, resilient impact element disposed in spaced-apart relation to the support in a direction transversely with respect to the length of said element, and projecting beyond the support in opposite directions, and an elongated tie member rigidly connected intermediate its length to said support and having its outer extremities rigidly attached to opposite portions of the elongated impact element, for supporting said resilient impact element substantially parallel and in spaced relation to the playing field.

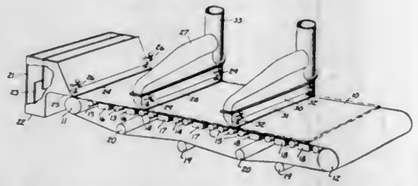
2,168,559
SHEET FEEDING APPARATUS
Paul Cernak, Montvale, N. J., assignor to Dexter Folder Company, New York, N. Y., a corporation of New York
Application April 27, 1938, Serial No. 204,521
14 Claims. (Cl. 271—56)



1. In a sheet feeder, suction sheet feeding means, mechanism for imparting motion thereto including a driven element and driving connections therefor with the suction sheet feeding means enabling motion thereof to be discontinued while driving of said element continues, and means for discontinuing the sheet feeding action of the sheet feeding means while driving of said element continues comprising a valve for opening the sheet feeding means to atmosphere and means for preventing opening operation of said

valve unless said sheet feeding means has been moved to a predetermined position by said mechanism.

2,168,560
PROCESS AND APPARATUS FOR THE MANUFACTURE OF PAPER
Edgar Alexander Charlton, New York, N. Y., assignor to International Paper Company, New York, N. Y., a corporation of New York
Application December 17, 1934, Serial No. 757,763
Renewed March 27, 1937
5 Claims. (Cl. 92—40)



1. In a method for the manufacture of paper, the steps of depositing on a paper making wire a layer of fibrous stock including a filler, subjecting said layer to drainage to form a web, depositing on said web a layer of fibrous stock containing no filler, subjecting said web and layer to drainage to form a composite web, thereafter depositing on said composite web a layer of fibrous stock including a filler, and subjecting said composite web and deposited layer to drainage to form a web of material the opposite faces of which contain a filler.

2,168,561
TREATING MOLTEN IRON AND STEEL WITH ADDITION AGENTS
James H. Critchett, Douglaston, and Walter Crafts, Niagara Falls, N. Y., assignors to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application April 14, 1938, Serial No. 201,933
8 Claims. (Cl. 75—58)

1. A method of treating molten ferrous metal which comprises adding a small but effective amount less than 1% of said metal of an addition agent consisting of 25% to 85% silicon, iron, and at least 3% of each of at least two elements selected from the group vanadium, columbium, and tantalum.

2,168,562
INORGANIC NITRATE EXPLOSIVE
Clyde Oliver Davis, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 8, 1938, Serial No. 194,551
24 Claims. (Cl. 52—11)

1. An ammonium nitrate explosive which comprises a solid dispersion of an inorganic nitrate soluble in anhydrous liquid ammonia and a comminuted imperforate sensitizer, said dispersion resulting from crystallization from substantially anhydrous liquid ammonia.

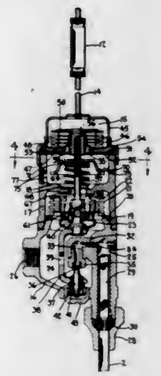
6. The process of producing an inorganic nitrate explosive, which process comprises dissolving said inorganic nitrate in anhydrous liquid ammonia, dispersing in said solution a comminuted imperforate sensitizer for said inorganic nitrate, and vaporizing the free ammonia to produce a solid dispersion product wherein the inorganic nitrate is a continuous phase.

2,168,563
NITROSTARCH EXPLOSIVE
Clyde Oliver Davis, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 8, 1938, Serial No. 194,606
4 Claims. (Cl. 52—11)

1. A nitrostarch explosive comprising particles of nitrostarch dispersed within crystals of ammonium nitrate, having an enhanced sensitiveness to propagation and decreased sensitiveness to unintentional initiation as the result of crystallization from substantially anhydrous liquid ammonia.

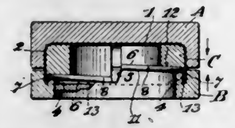
2. The process of preparing a nitrostarch explosive of improved sensitiveness to propagation and decreased sensitiveness to unintentional initiation, which comprises dissolving ammonium nitrate in substantially anhydrous liquid ammonia, dispersing nitrostarch in said solution, and expelling the free ammonia therefrom.

2,168,564
CONTROL DEVICE
Earnest J. Dillman and Daniel D. Wile, Detroit, Mich., assignors to Detroit Lubricator Company, Detroit, Mich., a corporation of Michigan
Application April 24, 1935, Serial No. 17,926
4 Claims. (Cl. 236—92)



1. In a device of the character described, a casing having an inlet and an outlet and a valve port within the casing, a reciprocal valve within the casing for controlling flow therethrough, a removable cap member mounted on the casing, a bellows carried by said cap member having one end connected thereto and closing and sealing the cap providing a chamber for a volatile fluid within the cap, a detachable plate disposed between the cap member and the casing and having an opening therethrough, means for clamping the cap and plate to the casing, an articulated push rod structure within the casing connecting the free end of the bellows and said valve, one end of said rod extending through said opening in said plate, a resilient bearing member cooperable with said plate and said rod and frictionally opposing movement of said rod through said plate opening, a spring in said casing surrounding said rod and acting to close said valve, and means carried by said rod and within the casing for adjusting the tension of said spring.

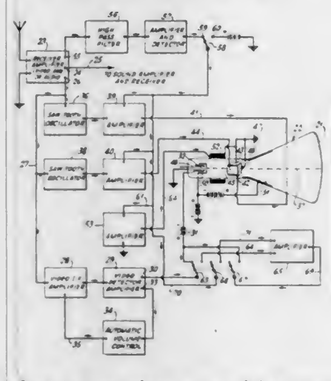
2,168,565
CLOSURE CAP AND METHOD OF MAKING
John C. Gibbs, Brooklyn, N. Y., assignor to Anchor Cap & Closure Corporation, Long Island City, N. Y., a corporation of New York
Application March 17, 1936, Serial No. 69,286
3 Claims. (Cl. 113—121)



1. The method of making closure caps, which method comprises forming a blank having a cover portion and a depending skirt, slitting the lower edge of the skirt, folding the lower portion of the skirt inwardly and upwardly to form a bead interrupted at one point by said slit, and compressing said bead by means of two dies having opposed complementary helical surfaces designed to engage the bead, thereby to form a helical thread, the relative positions of the dies and the slit in the cap being such that the thread in the cap begins and ends on the respective sides of the slit.

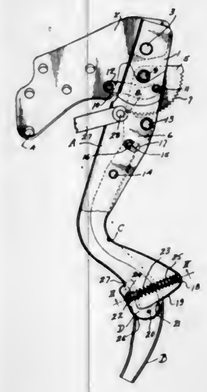
3. A closure cap having a cover portion and a depending skirt of uniform length having a smooth cylindrical outer surface, the bottom of said skirt having an inturned bead at the lower edge thereof, said inturned bead having one vertical slit therein concealed from view by the skirt of the cap when viewed from the exterior, the lower portion of said inturned bead being flattened against the skirt of the cap throughout the circumference of the skirt to provide a continuous thread in the cap by a fold of metal in the inturned bead, said fold being compressed to provide a helical thread adapted to engage a thread on the container which extends substantially entirely about the skirt of the cap, commencing at one side of said slit and terminating at the other side of said slit, thereby facilitating entry of a container thread between the ends of said cap thread at said slit, said thread having a substantially constant width and depth throughout its length.

2,168,566
TELEVISION SYSTEM
Alfred N. Goldsmith, New York, N. Y.
Application July 30, 1937, Serial No. 156,504
17 Claims. (Cl. 178—7.5)



1. A television receiver comprising means for receiving video signals, electronic means energized by the received signals for producing electro-optical images, means for controlling the size of the produced electro-optical image in accordance with the strength of the received signals so as to represent the geographical separation of the receiver from the point of transmission as a function of the size of the electro-optical image resulting and means to maintain the aspect ratio substantially constant.

2,168,567
BRAKE LEVER SAFETY DEVICE
Jay H. Gould, Detroit, Mich., assignor, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application July 12, 1937, Serial No. 153,117
5 Claims. (Cl. 74—537)

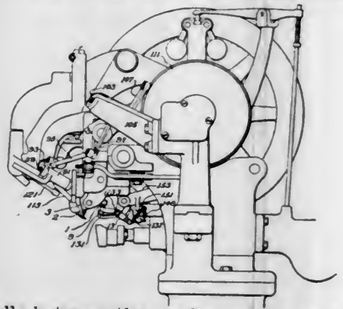


1. A brake lever construction including a support, a lever shaft formed as a stamping of substantially U-shape for a major portion of its length pivoted at one end to said support and provided at its other end with a grip portion, means providing cooperating clutch members, one of which is pivoted to said lever shaft, a stamped clutch release member of U-shape in section for a major part of its length pivoted to said lever shaft and having an end wall adjacent the grip portion of the lever shaft, a dog pivoted to said lever shaft adjacent the grip portion thereof and arranged normally to latch with the margin of the end wall of said release member, and a spring connected between said dog and said release member for normally maintaining said dog in latched engagement with said release member and for maintaining said clutch members in clutching engagement.

2,168,568
SEWING MACHINE
Joseph Gouldbourn and Thomas Aubrey Kestell, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application June 28, 1937, Serial No. 150,728
In Great Britain August 27, 1936
20 Claims. (Cl. 112—35)

1. A chainstitch inseam shoe sewing machine having, in combination, stitch forming devices including a curved hook needle operating to draw a loop of thread through the work and through a previously formed loop of thread, a loop deflector, and means for actuating the deflector before the

needle has reached the end of its loop drawing stroke to deflect both sides of the loop carried by



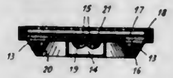
the needle between the needle and the previously formed loop in the direction of work feed.

2,168,569

MICROPHONE

Hans Jacoby, Finkenkrug, East-Havelland, and Hans Panzerbieter, Berlin-Haselhorst, Germany, assignors to Siemens and Halske, Aktiengeselischaft, Berlin-Siemensstadt, Germany, a corporation of Germany

Application March 9, 1936, Serial No. 67,808
In Germany March 12, 1935
5 Claims. (Cl. 179—122)



1. A carbon microphone having carbon granules in contact with a diaphragm and electrodes arranged so that the current lines in the direction of said diaphragm through the path of the carbon granules between the faces of the electrodes are substantially the same length, comprising a diaphragm, a circular casing, a depending cavity located at the outer rim of said casing, a second depending cavity located at the central portion of said casing, carbon granules filling both depending cavities and the space within said casing, a ring-like electrode located within the rim of said casing, a second electrode located within said second cavity, the face of at least one of said electrodes presenting an angle which is steep with respect to the plane of the diaphragm and said casing, said diaphragm arranged for enclosing said casing and serving to retain said carbon granules in position, the effective surface of said electrodes being substantially larger than the cross-section of the carbon granules.

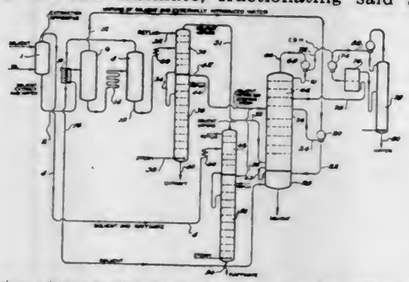
2,168,570

SOLVENT RECOVERY

Wheaton W. Kraft, New York, N. Y., assignor to The Lummus Company, New York, N. Y., a corporation of Delaware

Application May 31, 1935, Serial No. 24,308
Renewed February 13, 1939
5 Claims. (Cl. 202—39)

1. In solvent recovery following a solvent extraction treatment of petroleum oils with a solvent of a character to form with water an azeotropic mixture of minimum boiling point, the method which consists in distilling from a solvent-extract mixture having a small amount of water unavoidably contained therein a solvent-water distillate containing a part of the solvent and substantially all of the water, leaving a solvent-extract residue with no water in excess of a predetermined limit of tolerance, subjecting said residue to dry distillation to obtain the greater part of the solvent as dry vapors and to leave a residue containing only a small proportion of solvent, stripping the solvent from the last-named residue with steam to form a second solvent-water distillate, fractionating said sol-



vent-water distillates substantially between solvent and the azeotrope, thereby to localize the water, including that initially introduced and that used as stripping steam, in association with a quantity of solvent which is small in comparison with the total solvent used in the system, and finally separating the azeotropic mixture to recover substantially dry solvent therefrom.

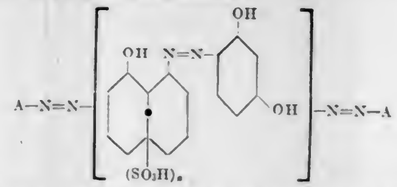
2,168,571

METAL CONTAINING TRISAZO DYES

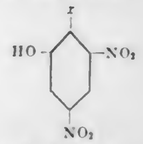
Hans Krzikalla and Walter Limbacher, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application July 21, 1937, Serial No. 154,758. In Germany July 31, 1936
7 Claims. (Cl. 260—145)

1. A complex metal compound of an azo dyestuff of the general formula



wherein one A is a radical of the benzene series and the other A is the radical



combined with the azo group in the position marked x, and n is a whole number from 1 to 2.

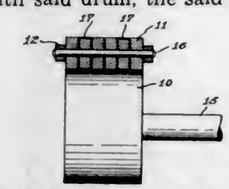
2,168,572

PRESSURE ROLL FOR SOUND FILM APPARATUS

Daniel O. Landis, Upper Darby, Pa., assignor to Radio Corporation of America, a corporation of Delaware

Application June 30, 1937, Serial No. 151,149
3 Claims. (Cl. 271—2.3)

3. In combination, a film feed drum, a pressure roll, and means urging the pressure roll into engagement with said drum, the said pressure roll



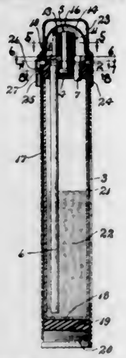
being sub-divided into a plurality of contiguous independent freely rotatable similar coaxial sections.

2,168,573

INHALER

Abram Leenhouts and A. Donald Leenhouts, Holland, Mich.

Application December 21, 1936, Serial No. 116,928
1 Claim. (Cl. 128—200)



An inhaler comprising, an outer tube having an open lower end interiorly threaded, an inturned continuous flange at the upper end of said tube, a plug having an annular shoulder thereon located in the upper end of said tube, said shoulder adapted to lie against the under side of said flange, a disc having an annular flange thereon disposed above and in contact with said plug, openings in said plug and disc adapted to coincide with each other, a radially extending passage in said disc connecting one of said openings with the outside air, an inner cap having an opening in the top thereof and an annular bead around the bottom thereof adapted to clip over the flange on said disc, a receptacle adapted to contain a liquid therein and be inserted within said outer tube, a short tube inserted in one of the openings in said plug, a long tube inserted in the other of said openings, and an outer cap adapted to fit over said inner cap and removable therefrom only when the respective openings in the disc and plug are in alinement with each other.

2,168,574

METHOD OF SEPARATING WAX-CONTAINING MATERIALS

Dwight B. Mapes and Eddie M. Dons, Tulsa, Okla., assignors to Mid-Continent Petroleum Corporation, Tulsa, Okla., a corporation of Delaware

No Drawing. Application May 10, 1937, Serial No. 141,860
4 Claims. (Cl. 196—18)

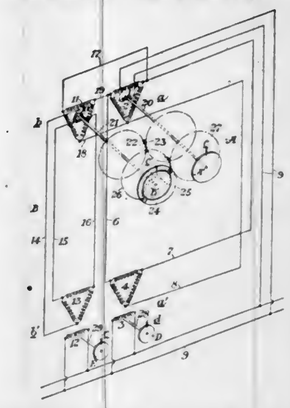
3. The method of separating high melting point wax from petroleum stocks containing amorphous wax and oil which comprises dissolving the waxy material in a solvent including isopropyl acetate and amyl acetate, cooling the solution to precipitate high melting point wax therein, and separating precipitated wax from the cooled solution.

2,168,575

SYSTEM FOR TRANSMITTING ANGULAR MOTION

William H. Newell, Bronx, N. Y., assignor to Ford Instrument Company, Inc., Long Island City, N. Y., a corporation of New York

Application October 11, 1938, Serial No. 234,406
5 Claims. (Cl. 172—239)



1. A self-synchronous system for transmitting angular movement at different ratios comprising a transmitter and a transformer, each including a rotor and a stator, means for effecting a difference between the electrical outputs of said transmitter and said transformer comprising an electrical connection between the stators and a mechanical connection between the rotors thereof, and a pair of receivers, conductors connecting the transmitter and one receiver and the rotor of the transformer and the other receiver.

2,168,576

PROCESS OF COLORING PLASTIC MASSES

Georg Niemann and Leo Kollek, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware

No Drawing. Application November 29, 1935, Serial No. 52,210. In Germany December 1, 1934
5 Claims. (Cl. 18—50)

2. Vulcanized rubber colored with a phthalocyanine coloring matter.

2,168,577

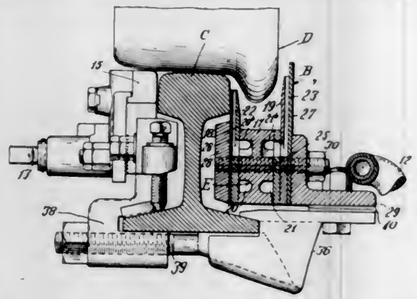
RAIL AND WHEEL FLANGE LUBRICATOR

Emmons Overmier, La Grange, and Thomas E. Rodman, Glencoe, Ill., and David M. Clarke, North Tarrytown, N. Y., assignors, by mesne assignments, to Poor & Company, Chicago, Ill., a corporation of Delaware

Application November 22, 1937, Serial No. 175,862
17 Claims. (Cl. 184—3)

1. A rail and wheel flange lubricating apparatus comprising, in combination, lubricant discharging means having a plurality of lubricant

ducts for directing lubricant to predetermined locations along a railway track, means for supplying lubricant to the passages of the discharg-



ing means, and a distributing valve adjustably interposed in the inlet ends of said passages to proportionately distribute the supplied lubricant to the several passages of the discharging means.

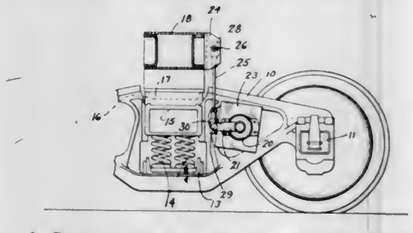
2,168,578

HYDRAULIC SHOCK ABSORBER CONTROL FOR RAILWAY CARS

Charles E. Perkins, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a corporation of New York

Application February 26, 1938, Serial No. 192,728

2 Claims. (Cl. 105—199)



1. In combination, the truck of a railway car comprising side frames and a bolster spring supported on said side frames, a car body to which the bolster is pivoted for lateral turning of the truck, a hydraulic shock absorber comprising a cylinder structure mounted on one of the side frames and a piston structure having an arm extending therefrom and terminating substantially vertically below the adjacent end of the bolster, and a substantially vertical link having universal joint connections with the arm end and with the car body whereby said shock absorber may function to dampen and control vertical oscillation and rolling of the car body during travel of the car.

2,168,579

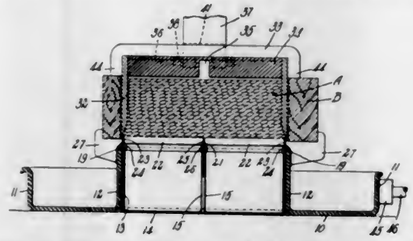
DEVICE FOR CUTTING AND PACKING COMB HONEY

Arnold Perreton, Durham, N. H.

Application June 10, 1937, Serial No. 147,432

8 Claims. (Cl. 107—21)

1. A device of the character described comprising, in combination, means to position a plurality of receptacles side by side, a cutting member mounted upon said positioning means and overlying and enclosing the top edges of said receptacles, means upon said cutting member to support a frame containing a mass of material above the cutting member, and means to force said mass of material out of said frame and through said cutting member, whereby the ma-



terial is cut into pieces and deposited into the receptacles during the cutting operation.

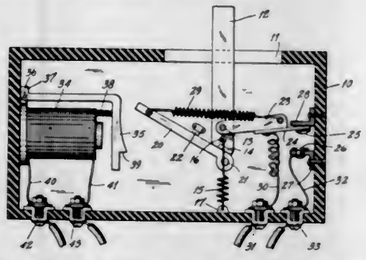
2,168,580

SNAP SWITCH FOR COFFEE ROASTERS

Lawrence M. Persons, St. Louis County, Mo., assignor to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware

Application July 21, 1937, Serial No. 154,765

5 Claims. (Cl. 200—67)



1. In a device of the kind described, a base, a first lever pivoted to said base, releasable latch means to hold said lever in one position, a second lever pivoted to the base at a point spaced from the first lever, a spring connecting the levers, said spring shifting across the pivot of the second lever when the first is moved from unlatched to latched position but never to shift across the pivot of the first lever, an actuating member contacting the first lever to move it into latched position, and means to release the latch means.

2,168,581

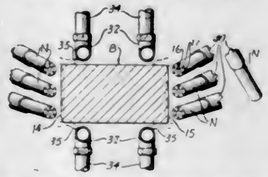
METHOD AND APPARATUS FOR THERMO-CHEMICALLY REMOVING METAL FROM BODIES OF FERROUS METAL

Hans R. Pufahl, Chicago, Ill., and James H. Bucknam, Cranford, N. J., assignors to The Linde Air Products Company, a corporation of Ohio

Application June 4, 1936, Serial No. 83,518

Renewed January 5, 1939

19 Claims. (Cl. 148—9)



6. A method of removing metal from the surface of a body of ferrous metal, which comprises progressively applying a high temperature heating flame and an oxidizing gas stream simultaneously against successive portions of a surface so as to remove a desired area of surface metal therefrom, said gas stream having a component tending to force removed metal over an adjacent surface of the body, and, during the application of said gas stream, deflecting away from said adjacent surface the component of said gas stream tending to flow over said adjacent surface so as to maintain the same clean and free of removed metal.

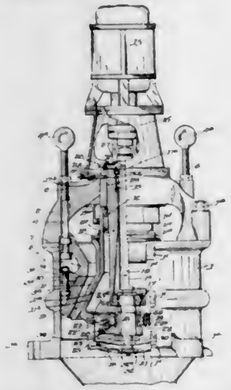
2,168,582

CENTRIFUGAL CRUSHER

Rowland W. Rider, Salt Lake City, Utah, assignor to Utah Royalty Corporation, Salt Lake City, Utah, a corporation of Utah

Application June 12, 1937, Serial No. 147,834

6 Claims. (Cl. 83—10)



1. In a crusher having a stationary crusher member and a movable crusher member cooperating therewith, non-positively connected means for moving the movable crusher member acting only in the direction of thrusting toward the stationary crusher member and comprising a drive shaft having a crank, a floating eccentric bearing carried by the crank, cooperating with the movable crusher member, in the said direction but yieldable to excessive resistance of the said movable member by rotation upon the crank, and means limiting rotation of the floating eccentric bearing relatively to the crank, mounted to rotate with the crank and positioned to engage said floating eccentric bearing when the shaft starts rotating.

2,168,583

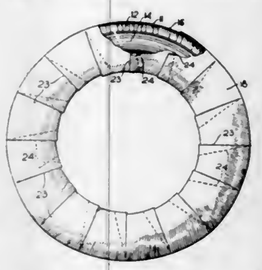
METHOD OF WRAPPING PACKAGES

William A. Ringler, Wayne, Pa., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Original application September 19, 1934, Serial No. 744,643. Divided and this application February 24, 1938, Serial No. 192,260

9 Claims. (Cl. 93—2)

1. That improved method of encasing a toroidal object, such as a tire casing, in sheet wrapping material, which consists in advancing a sheet of the material, having adjacent to each longitudinal edge thereof areas defined by transversely extending pre-weakened lines, into engagement with the outer circumference of the tire casing, and folding the wrapping material at the pre-weakened lines to conform the areas defined by the pre-weakened lines to the outer



side walls of the object, and then to the inner circumference.

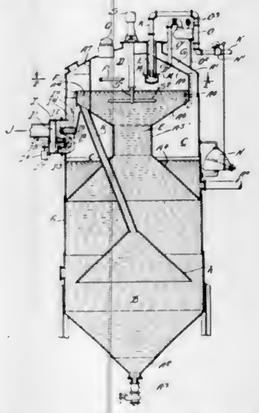
2,168,584

WATER PURIFYING AND DEGASIFYING APPARATUS

Victor A. Rohlin and Charles E. Joos, Philadelphia, Pa., assignors to Cochrane Corporation, Philadelphia, Pa., a corporation of Pennsylvania

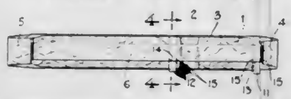
Application September 9, 1937, Serial No. 162,958

7 Claims. (Cl. 210—14)



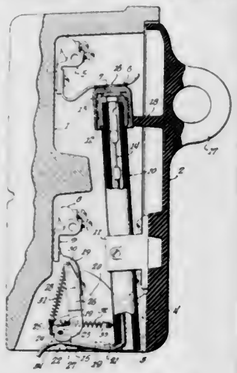
1. Water purifying and degasifying apparatus comprising in combination, a vertically disposed tank, partition means therein providing a heating and sedimentation chamber and an annular degasifying compartment surrounding an intermediate portion of said chamber substantially smaller in horizontal cross section than the portions of said chamber above and below said intermediate portion, means for passing water successively through said chamber and compartment and for maintaining a steam space in the upper portion of each, comprising water supply means discharging into the steam space of said chamber, an overflow receptacle in the steam space of said compartment, conduit means for passing water from the lower portion of said chamber into said overflow receptacle and means for discharging water from the portion of said compartment below the steam space therein, means for passing steam into the steam space of said compartment, the last mentioned steam space having an outlet for the flow of steam and gases into the steam space of said chamber, and means for withdrawing the gases from the last mentioned steam space.

2,168,585
WRAPPER
Aaron Schwartz, New York, N. Y., assignor to Celanese Corporation of America, a corporation of Delaware
Application May 6, 1938, Serial No. 206,322
5 Claims. (Cl. 131—11)



1. The combination with a wrapper of sheet material of a cigar or the like contained in said wrapper, said wrapper being provided with spaced means along an exposed edge thereof to facilitate the tearing of the wrapper to remove portions thereof leaving a portion thereon adapted to act as a mouth-piece.

2,168,586
FUSE CONSTRUCTION
William O. Schultz, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application September 15, 1937, Serial No. 163,975
33 Claims. (Cl. 200—114)

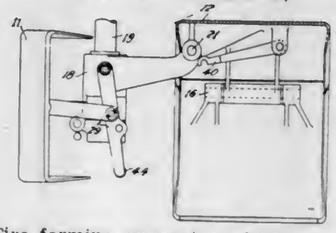


1. In a fuse construction, a pair of contacts, a fuse tube, a fuse link within said tube connected to one of said contacts and projecting from one end of said tube, a switch movable to open position independently of any motion of said fuse tube, said switch normally electrically connected to the other of said contacts and electrically connected to the projecting portion of said fuse link, and means biasing said switch towards open position after said fuse link has been ruptured.

2,168,587
SOLVENT AND SOLUTION OF CELLULOSE ESTERS
Royal L. Shuman, Newark, N. J., assignor to Celluloid Corporation, a corporation of New Jersey
No Drawing. Application January 12, 1934, Serial No. 706,360
3 Claims. (Cl. 106—37)

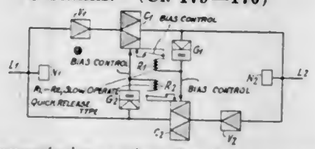
1. A composition of matter comprising a cellulose ester and a plasticizer for said cellulose ester comprising a substance selected from the group consisting of tripara tertiary amyl phenyl phosphate, triethyl phenyl phosphate, tri methoxy ethyl phenyl phosphate, dipara tertiary amyl phenyl mono cresyl phosphate, mono para tertiary amyl phenyl mono cresyl mono methoxy ethyl phosphate and dibutyl phenyl monophenyl phosphate.

2,168,588
COLLAPSIBLE SEGMENTAL FORMER
Harold Smith, Sutton Coldfield, and Harry Taylor, Erdington, Birmingham, England, assignors to Dunlop Rubber Company, Limited, London, England, a British company
Application February 26, 1938, Serial No. 192,746
In Great Britain January 29, 1937
7 Claims. (Cl. 154—9)



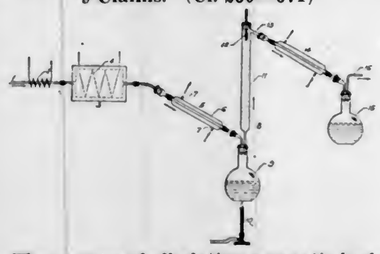
1. Tire forming apparatus which comprises a rotatable hub, an arm extending from said hub and at an angle to the axis thereof, a forming rim section pivoted at one side of its median plane on said arm on an axis transverse to that of said hub to swing to a position concentric with said hub and to a position aside from said hub, rim sections mounted on said pivoted rim section to swing in the plane thereof, a key section to complete said rim, and a support mounted on said hub on which said key section is slidable radially inwardly from closing position.

2,168,589
TRANSMISSION SYSTEM
Felix Strecker, Berlin-Siemensstadt, and Hermann Kimmel, Berlin-Charlottenburg, Germany, assignors to Siemens & Halske Aktiengesellschaft, Berlin, Germany, a corporation of Germany
Application July 14, 1936, Serial No. 90,472
In Germany July 27, 1935
6 Claims. (Cl. 179—170)



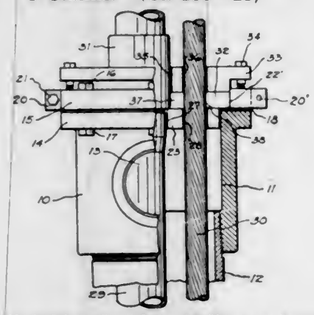
1. A transmission system for the suppression of echos comprising two single one way transmission paths for transmission of signals in opposite directions connected in series and coupled between two separate incoming lines, a separate amplifier connected in series with opposed outputs in each transmission path and ahead of a push pull amplifier of the C-type whose grid bias voltage is chosen in such a way that the working point lies outside the range in which the plate current flows, said push pull amplifier of the C-type connected intermediate said incoming lines to prevent feedback in the absence of voice impulse action upon said system, a rectifier circuit whose D—C output voltage serves to shift the grid potential of said push pull amplifier branched from the output of said push pull amplifier with its output connected to the push-pull amplifier in the opposite path in such a manner as to render it inoperative as a C-type amplifier.

2,168,590
CATALYTIC ALKYLATION OF AROMATIC HYDROCARBONS
Hugh S. Taylor, Princeton, N. J., assignor to The M. W. Kellogg Co., New York, N. Y., a corporation of Delaware
Application December 7, 1935, Serial No. 53,298
9 Claims. (Cl. 260—671)



2. The process of alkylating aromatic hydrocarbon compounds by paraffinic hydrocarbon compounds which comprises activating a bond external to the aromatic ring of an aromatic hydrocarbon compound by subjecting it to the action of a hydrogenating-dehydrogenating catalyst having specificity properties for said external bond, under such conditions of temperature and pressure that said catalyst specifically activates said external bond, simultaneously activating a bond of a paraffinic hydrocarbon compound by the action of said catalyst in the presence of said activated aromatic hydrocarbon compound to form activated residues of said paraffinic hydrocarbon compound whereby said activated residues react with and alkylate said activated aromatic hydrocarbon compound.

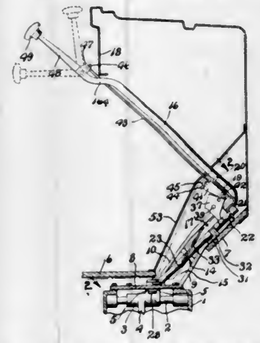
2,168,591
TUBING HEAD
Sheridan P. Tschappat, Tulsa, Okla.
Application August 9, 1937, Serial No. 158,076
5 Claims. (Cl. 166—14)



1. A well tubing head including, a housing, a supporting element mounted on the housing and having a transversely elongate packing recess in its upper side arranged so that the tubing and a vertical element may extend therethrough, an elongate packing common to both the tubing and the vertically extending element supported in said recess, and means fastened on the support for distorting said packing to pack off both the tubing and the vertically extending element.

2,168,592
GEAR SHIFTING MECHANISM
Anthony Vanderveld, Grand Rapids, Mich.
Application February 7, 1938, Serial No. 189,157
7 Claims. (Cl. 74—473)

1. A gear shifting appliance adapted to be associated with the selective sliding transmission gearing of a motor vehicle comprising, a cover plate adapted to be secured over such transmission gearing, a support connected with said plate extending upwardly and forwardly therefrom, a rod pivotally mounted on said support for lateral movements to each side of a central position and extending upwardly and to the rear from the forward end of the support, a lever



pivotally mounted at the upper end of the rod, means mounted on the support adapted to be connected with gears to be shifted, an actuating means, means moved by said rod on lateral movement thereof for selectively connecting the gear to be shifted with the actuating means, and means for operating said actuating means upon manual operation of said lever mounted at the upper end of said rod.

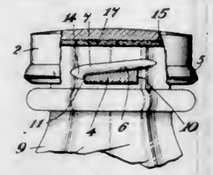
2,168,593
METHOD OF MAKING ARTIFICIALLY COLORED GRANULES
Marion H. Veazey, Rutherford, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
No Drawing. Original application July 31, 1934, Serial No. 737,774. Divided and this application February 23, 1938, Serial No. 191,965
2 Claims. (Cl. 91—70)

1. The method of artificially coloring mineral granules which comprises coating the granules with pigment and sodium silicate, retorting the granules at temperatures sufficient to insolubilize the silicate and then neutralizing any sodium carbonate formed in the coating during the retorting of the granules by subjecting the retorted granules while still at an elevated temperature to treatment with an aqueous solution of an acidic substance selected from the group consisting of citric, tartaric, formic, acetic and boric acids, said solution being applied to the granules in amounts to enable the aqueous content to be evaporated by the heat of the granules.

2,168,594
CLOSURE CAP
Louis A. Von Till, East Rockaway, N. Y., assignor to Anchor Cap & Closure Corporation, New York, N. Y., a corporation of New York
Application April 21, 1930, Serial No. 445,896
Renewed February 8, 1939
5 Claims. (Cl. 215—44)

3. As an article of manufacture, a molded closure cap comprising a cover portion, a depending skirt, a plurality of inwardly extending thread engaging lugs formed on the bottom of the skirt of the cap and an outwardly extending shoulder

formed at the bottom of said skirt on the exterior thereof, portions of said skirt intermediate



said lugs being reduced in thickness to increase the resiliency of the cap.

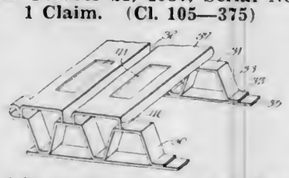
2,168,595

REFRIGERATOR CAR FLOOR RACK

Kurt E. Zeidler, Pittsburgh, Pa., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware

Application October 21, 1937, Serial No. 170,156

1 Claim. (Cl. 105—375)



In a refrigerator car having a floor, a rack for supporting a lading in spaced relation to said floor to provide a flue therebetween, and means to induce an air current in said flue, said rack comprising a plurality of spaced apart strips each formed with alternate upper and lower portions in spaced apart parallel planes connected by webs, and a plurality of spaced apart parallel slats extending normally to said strips with each slat spanning the distance between adjacent upper portions of the strips, each slat formed of a metallic sheet with marginal depending flanges secured to said upper portions of the strips.

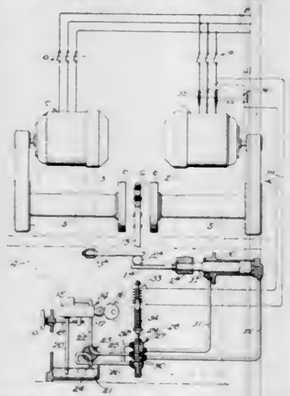
2,168,596

CONTROL APPARATUS FOR GRINDING MACHINES

Donald R. Hall, Beloit, Wis., assignor to Gardner Machine Company, South Beloit, Ill., a corporation of Illinois

Application September 12, 1935, Serial No. 40,209

5 Claims. (Cl. 51—111)



4. A grinding machine having, in combination, a grinding wheel, an electric motor for driving the wheel, means for supporting work to be operated on by the wheel, hydraulically actuated means for moving the grinding wheel into operative engagement with the work and for retracting the wheel from the work, manually operable means for controlling said hydraulic means to move the wheel toward and from the work, and automatic means associated with said motor for controlling said hydraulic means to move the wheel toward and from the work independently of said manually operable means, said automatic means including a relay adapted to be energized when the current drawn by said motor reaches a predetermined limit.

2,168,597

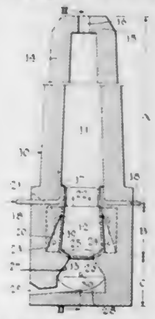
PROCESS AND APPARATUS FOR THE DIRECT PRODUCTION OF STEEL AND OTHER METALS FROM ORE

Albert Auriol and André Auriol, Brussels, Belgium

Application January 13, 1938, Serial No. 184,870

In Belgium January 19, 1937

22 Claims. (Cl. 75—26)



1. A method for rapidly reducing finely divided mineral material which includes preheating said material by projecting the same in upwardly directed streams within a chamber, maintaining gases of controlled flow and temperature, allowing the material to fall through said gases into a reduction zone, maintaining a deoxidizing atmosphere within said reduction zone, collecting the reduced material in the lower part of said reduction zone, and fusing said material by additional heat applied directly to the underside of the collected material.

2,168,598

SEPARABLE FASTENER

Frederick D. Banning, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania

Application August 8, 1936, Serial No. 94,969

12 Claims. (Cl. 24—205)



1. A separable fastener of the class described comprising a pair of flexible stringers, a series of separate fastener elements arranged in uniformly spaced relation along the edge of each stringer, each of said elements having a projection on one side and a recess on the other side in substantially the same longitudinal line, holding means on the tape embracing the portion of the element directly between said recess and projection for holding each of the elements in place on the stringer.

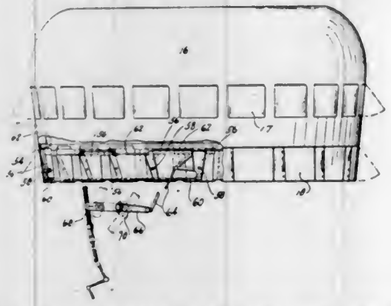
2,168,599

AIR REGULATING MEANS

Rex B. Beisel and Albert L. MacClain, West Hartford, Conn., assignors to The United Aircraft & Transport Corporation, East Hartford, Conn., a corporation of Connecticut

Application January 3, 1934, Serial No. 705,094

16 Claims. (Cl. 123—171)



16. Means adapted to be associated with an annular engine cowl to control the flow of engine cooling air therethrough comprising, a series of flaps hinged to an annular support adapted to be positioned adjacent to the trailing edge of said cowl, said flaps being disposed in angular relation with respect to each other, manually operable means for adjusting the angular relation of said flaps with respect to said cowl, and connecting means operatively associating individual flaps with each other and with said manual means for actuation of all of said flaps in unison upon operation of said manual means.

2,168,600

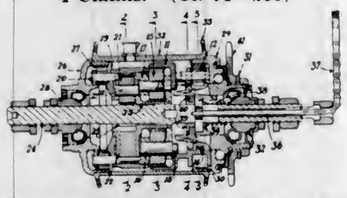
EPICYCLIC CHANGE SPEED GEAR

William Brown, Wollaton Park, Nottingham, England, assignor to Sturmey-Archer Gears Limited, Nottingham, England

Application September 20, 1937, Serial No. 164,731

In Great Britain September 26, 1936

4 Claims. (Cl. 74—266)



1. In an epicyclic change speed gear of the kind comprising two epicyclic trains of gearing coupled together so that the planet carrier and annulus of one train are connected respectively to the sun pinion and planet carrier of the other train for rotation together leaving a solitary sun pinion and a solitary annulus, means holding the said solitary sun pinion stationary, means for coupling a driving member alternatively to either of the annuli, and further coupling means between each of the annuli and a driven member whereby when the driving member is coupled to the said connected planet carrier and annulus the said solitary annulus is coupled to the driven member whilst when the driving member is coupled to the solitary annulus either of the annuli is alternatively coupled to the driven member.

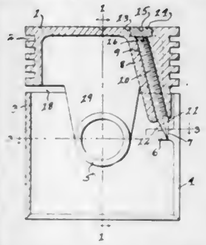
2,168,601

PERMANENT EXPANDER FOR SPLIT-SKIRT PISTONS

Frederick C. Dalton, Portland, Oreg., assignor of one-fourth to W. H. Darby, Salem, Oreg., and one-fourth to E. R. Dalton, Portland, Oreg.

Application March 24, 1938, Serial No. 197,911

10 Claims. (Cl. 309—12)



1. In a split-skirt piston having piston pin bearings located within the confines of the skirt, means carried by the head of the piston and engaging the skirt portion of the piston at a place intermediate the top and bottom ends of the skirt for spreading the skirt, said means comprising a boss having a threaded bore extending at a downward and outward inclination to the head and axis of the piston and an adjusting screw accessible through the head of the piston and having a tapered end to project into the split at an acute angle to the piston wall at a point in transverse alignment with the piston pin bearings.

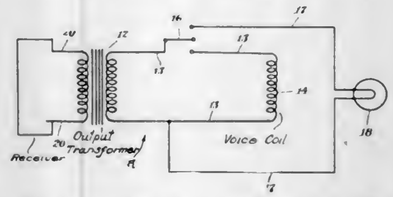
2,168,602

RADIO-CONTROLLED SIGNALING MEANS

Joseph A. Hassan, Quincy, Mass., assignor of one-half to William F. McIntyre, Quincy, Mass.

Application October 26, 1937, Serial No. 171,089

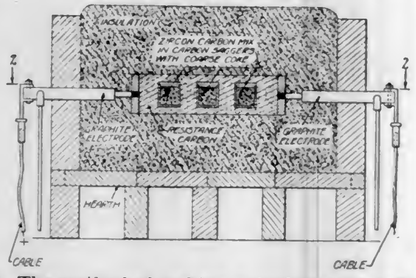
1 Claim. (Cl. 250—2)



In an automobile equipped with a radio receiver having an output transformer and a voice coil, an electric circuit including the transformer and voice coil, a manually operable double-contact switch in said circuit, said switch being located within the interior of the automobile, a signal light located on the exterior of the automobile, and a secondary electrical circuit including the signal light, connected to the switch and to the first-named circuit intermediate the transformer and the voice coil, said switch being selec-

tively operative to close either of said circuits respectively for operating the voice coil or lighting the signal light.

2,168,603
METHOD OF MAKING ZIRCONIUM OXIDE
Charles J. Kinzie and Donald S. Hake, Niagara Falls, N. Y., assignors to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine
Application September 2, 1936, Serial No. 99,030
14 Claims. (Cl. 23—24)

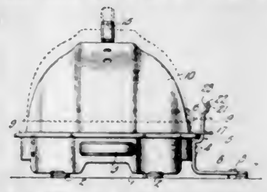


1. The method of making anhydrous crystalline zirconium oxide from zirconium silicate or zircon, which comprises placing a mixture of finely-divided zircon and carbon in proportions of about 4 to 1 in which mixture are contained larger particles of coarse coke forming the charge within a carbon container surrounded by resistance carbon acting substantially as the heat-producing resistor, but substantially mechanically separated therefrom, then heating said separated charge in an electric resistance furnace by the temperatures mainly developed in the resistor surrounding the charge without fusion, but with substantial decomposition of the charge, to yield an essentially silicon-free zirconium-carbon-oxygen complex and separable silicon carbide crystal aggregates, calcining the mass under oxidizing conditions to produce said zirconium oxide, and then separating the silicon carbide crystal aggregates from the zirconium oxide.

8. In the method of making anhydrous crystalline zirconium oxide of particle size ranging chiefly between 0.40 and 3 microns and substantially free from agglomerations by the thermal decomposition, but without fusion, of a mixture of zirconium silicate or zircon and lesser amounts of carbon to yield an essentially silicon-free zirconium-carbon-oxygen complex and silicon carbide, the steps which consist in separating said silicon carbide from said complex, then calcining the latter to form a zirconium oxide product, and finally roasting said zirconium oxide containing occluded gases mixed with sodium carbonate and sodium nitrate in a ratio of about 5 parts of said sodium compounds to 100 parts of said zirconium compound between 800° and 950° C. until any residual silicon carbide has been decomposed and the gases eliminated.

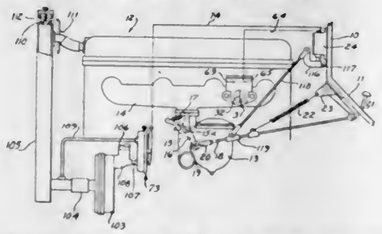
2,168,604
ELECTRIC BROILER
Harry A. Lee, Kansas City, Kans., assignor to Foster L. Talge, operating as Rival Manufacturing Company, Kansas City, Mo.
Application February 27, 1939, Serial No. 258,718
4 Claims. (Cl. 53—5)

1. In a broiler, a base member having a standard, a cover member having a lug, said cover member being provided with heating means adapted to broil food supported on said base member, said lug being formed with a slot adapted to permit the passage of the standard therethrough, said slot being wider than the thickness



of said standard, said lug projecting from said cover member to one side thereof, whereby the weight of said cover member will rotate said slot around said standard to clamp the same between opposite upper and lower edges of the slot.

2,168,605
ATTACHMENT FOR INTERNAL COMBUSTION ENGINES
Lester H. Messinger, Jr., Trumbull, Conn., assignor to Messinger Devices, Incorporated, Bridgeport, Conn., a corporation of Connecticut
Application November 27, 1937, Serial No. 176,844
21 Claims. (Cl. 123—103)



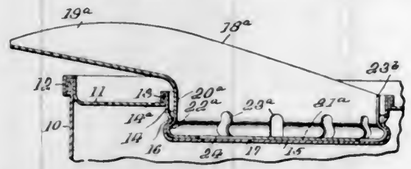
1. In combination with an internal combustion engine including a water cooling system, a pump operated in accordance with the speed of said engine and circulating the water in said system, a pressure responsive control means connected with the discharge side of said pump to be influenced by the pump generated and static pressures of the water in said system, other pressure responsive means connected elsewhere in said system to be influenced by the static pressure only of said system, and means whereby said second means balances out the effect of static pressure on the first means leaving the latter to be effected solely by changes in the pump generated pressure of the water in said system.

2,168,606
SHOE
Edgar Movsesian, Bradford, Mass., assignor to Jacob S. Kamborian, Newton, Mass.
Application February 23, 1938, Serial No. 191,925
5 Claims. (Cl. 36—12)



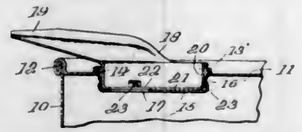
1. In a shoe consisting of a lasted upper unit and a bottom unit, said bottom unit comprising an outsole, a shank and a heel, said shank and heel forming a rigid element, the shank extending from the top of the heel downwardly and forwardly to the tread and having a skived tongue at the tread end, the outsole having a skived pocket on its upper surface in which the tongue of the shank is received and secured, and the shank having upon its upper surface an integral ridge which extends from above the heel forwardly toward the tread, and the upper surface of the shank at the sides and heel end being inclined downwardly toward said ridge to form a trough in which the inturned margins of the shoe upper are received and secured, said ridge thus serving to stiffen the shank and to position the upper unit.

2,168,607
CONTAINER AND DETACHABLE POURING SPOUT
Frank J. O'Brien, Pelham, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 25, 1938, Serial No. 221,253
2 Claims. (Cl. 221—23)



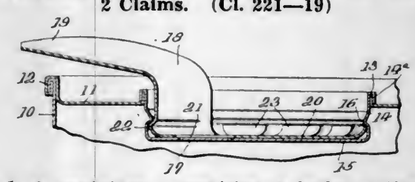
1. A container comprising a body portion, a container end secured thereto and having a filling opening, a closure for the filling opening having a depending side wall extending into the filling opening and a bottom wall having a scored portion adapted to provide a dispensing opening, the side wall of said closure having an inward bead spaced above the bottom wall thereof and below the filling opening in the container end, and a pouring spout having a substantially vertical depending wall portion extending within the inward bead on said closure and having at the lower edge thereof an outward bead fitting snugly between the bottom wall of said closure and the inward bead on said closure, the side wall of said pouring spout and the outward bead thereon being provided with spaced slots whereby to effect resilient engagement between the outward bead on said pouring spout and the inward bead on said closure and said pouring spout having a bottom portion adapted to control the dispensing opening in the bottom wall of said closure.

2,168,608
CONTAINER AND DETACHABLE POURING SPOUT
Frank J. O'Brien, Pelham, and William F. Punte, Syracuse, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 25, 1938, Serial No. 221,254
2 Claims. (Cl. 221—23)



1. A container comprising a body portion, a container end secured to said body portion and having a filling opening therein, a closure having a bottom wall and a depending side wall portion fitting within the filling opening in said container end and having the side wall thereof secured to said container and around the filling opening therein, the depending side wall portion of said closure being provided with an inwardly extending bead spaced above the bottom wall and the bottom wall of said closure having a scored portion adapted to provide a dispensing opening, and a spout having a depending side wall portion adapted to extend within the side wall portion on said closure and having a plurality of spaced outwardly extending resilient holding lugs adapted to engage beneath said bead for rotatably and removably attaching the spout to the closure, the bottom of said spout being shaped to provide an opening adapted to be brought into and out of register with the dispensing opening in the bottom wall of said closure whereby to control the dispensing of the contents of the container.

2,168,609
CONTAINER AND DETACHABLE SPOUT
Frank J. O'Brien, Pelham, and Oliver G. Jakob, St. Albans, N. Y., assignors to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application August 8, 1938, Serial No. 223,756
2 Claims. (Cl. 221—19)

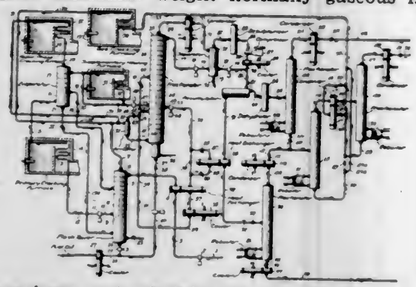


1. A container comprising a body portion, a container end secured to said body portion and having a filling opening therein, a closure for the filling opening having a bottom wall and a depending side wall fitting within the filling opening, the said side wall of said closure being secured to the container end around the filling opening therein and having an inwardly extending bead spaced above the said bottom wall, the bottom wall of said closure having a scored portion adapted to provide a dispensing opening, and a spout having a sealing portion disposed in contact with the bottom wall of said closure and having a pouring lip connected to a portion of the edge of said sealing portion, the remaining portion of the edge of said sealing portion having a plurality of upwardly and outwardly extending resilient holding lugs adapted to engage beneath the bead on said closure for removably and rotatably attaching the spout to the closure, and said sealing portion having an opening adapted to be brought into and out of register with the dispensing opening in the bottom wall of said closure.

2,168,610
METHOD OF TREATING HYDROCARBON OILS
Hermann C. Schutt, North Tarrytown, N. Y., assignor to Gyro Process Company, Detroit, Mich., a corporation of Michigan
Application June 24, 1935, Serial No. 28,059
8 Claims. (Cl. 196—10)

1. In a process for converting normally liquid hydrocarbons into normally gaseous hydrocarbons, in which vapors of hydrocarbon oil are cracked in the vapor phase, quenched, dephlegmated, incondensable gases removed from the dephlegmating zone and separated into low molecular weight normally gaseous hydrocarbons desired, and higher molecular weight normally

gaseous hydrocarbons; the step of cracking the higher molecular weight normally gaseous hy-



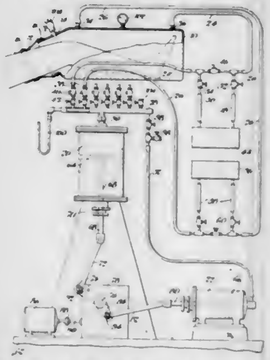
drocarbons and admixing them with the vapor phase cracked hydrocarbons before said quenching step.

2,168,611

METHOD OF AND APPARATUS FOR THE PRESSURE TREATMENT OF PARTS OF THE HUMAN BODY

Warren Ray Thompson, New York, N. Y.; Margaret Alicia Thompson, executrix of said Warren Ray Thompson, deceased

Application August 31, 1935, Serial No. 38,699
7 Claims. (Cl. 128—299)



1. A method of subjecting a plurality of parts of the human body to changes of absolute pressure comprising, enclosing two or more parts in separate chambers, continuously moving gas into and out of the chambers in cycles, maintaining a superatmospheric pressure in one chamber while maintaining a vacuum in one or more of the other chambers, and reversing the pressure conditions in the chambers in continuous cycles.

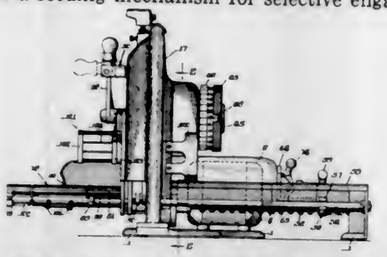
2,168,612

SLICING MACHINE

Arthur H. Ahrndt, La Porte, Ind., assignor to U. S. Slicing Machine Company, La Porte, Ind., a corporation of Indiana

Application May 3, 1935, Serial No. 19,649
9 Claims. (Cl. 146—101)

1. A slicing machine comprising a driven shaft, a stationary shaft, a knife bracket fixed to said driven shaft and revolvably supported on said stationary shaft, a knife mounted on said bracket and movable therewith, means for rotating the knife, an eccentric mounted on the driven shaft, feeding mechanism including a feed screw intermittently rotated by said eccentric, and pivoted means including a roller engageable between the threads of the feed screw, said roller being mounted on a lever, said lever being pivotally mounted on said feeding mechanism for selective engage-



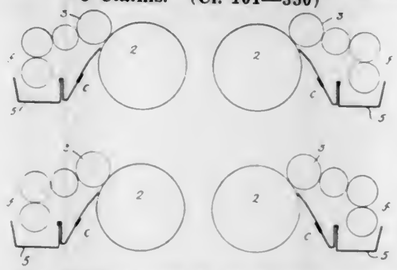
ment with the said feed screw and being translated thereby for advancing said feeding mechanism.

2,168,613

PRINTING PRESS PAPER PROTECTOR

Lorenzo T. Barker, Cleveland, Ohio, assignor to The Cleveland Shopping News Company, Cleveland, Ohio, a corporation of Ohio

Application April 15, 1937, Serial No. 137,095
5 Claims. (Cl. 101—350)



1. In a printing press, a cylinder carrying inked surfaces in contact with the paper in travel, an impression cylinder supporting the paper, an ink fount and feed roller means for inking said first-named cylinder, collector and guard means parallel with the fount and between the fount and impression cylinder and including a base with ends and vertical front wall and inclined back wall, a down-turned flange on said front wall to engage the adjacent edge of the ink fount, ears extending at the ends of said front wall and having slots below to receive bolt means for securement to the ink fount frame supports, and an extension plate on said base having a tongue flange to seat within the upper edge of said back wall and another flange spaced rearwardly of said tongue flange to engage against the outside of said upper flange, and bolt means for fastening the plate thereto, said plate continuing in the direction of the back wall a portion of its extent and thence back more angularly.

2,168,614

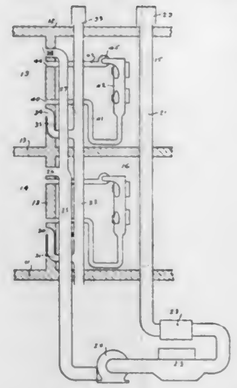
AIR CONDITIONING

Charles F. Beeler, Hamilton, Ohio

Application April 9, 1932, Serial No. 604,251
19 Claims. (Cl. 257—3)

1. The method in the conditioning of air for a plurality of rooms in a building, which comprises supplying from a common source fresh air from atmosphere to each room when the outside air is of an absolute humidity or total heat above predetermined values, dehumidifying said fresh air, withdrawing air from each room and returning

withdrawn air to that particular room so that the withdrawn air from one room is prevented from returning to another room, exhausting to atmosphere from each room, and increasing the volume of dehumidified air supplied to each room upon an increase in the absolute humidity within the room.



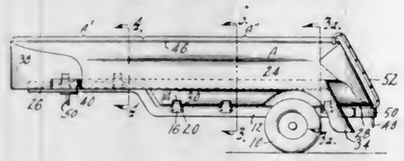
11. An air conditioning and ventilating system for an enclosure, comprising in combination, a fresh air intake for supplying fresh air to said enclosure, dehumidifying mechanism in said fresh air intake, thermostatic and hygrometric apparatus responsive to conditions of untreated outside fresh air for controlling said dehumidifying mechanism, a recirculating passage for withdrawing air from and returning it to said enclosure, heating means within said recirculating passage, cooling means within said recirculating passage, humidifying means within said recirculating passage, and additional thermostatic and hygrometric apparatus responsive to air conditions within the enclosure for selectively regulating said heating means, cooling means and humidifying means in the said recirculating passage.

2,168,615

TRANSPORT TANK STRUCTURE

Jacob Bernstein, Omaha, Nebr.

Application June 20, 1936, Serial No. 86,331
1 Claim. (Cl. 220—1)



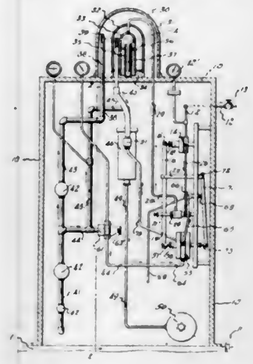
In a transport tank structure, a cylindrical tank having a substantially elliptical portion of relatively small height and a second substantially elliptical portion of relatively greater height and a hose receiving passageway comprising a longitudinal indentation at the side of said second portion for forming two sides of such passageway, a cover plate for enclosing said indentation and forming two other sides for such passageway, said cover plate extending along said first portion of said tank to provide an extension of such passageway and to form two sides for such extension and having a flange to form a third side therefor, said first portion of said tank forming a fourth side therefor.

2,168,616

CHLORINATOR

William C. Blackmond, Ranger, Tex., assignor of twenty-five per cent to Joseph H. Reynolds, Cisco, Tex.

Application December 11, 1936, Serial No. 115,342
10 Claims. (Cl. 210—28)



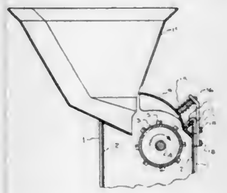
1. A chlorinator including, a casing, a metering apparatus supported by the casing, a water line passing through the casing, means for delivering chlorine to the metering apparatus, a pulsator within said apparatus for metering the chlorine to be introduced into the water, a conductor leading from said apparatus to the water line whereby chlorine is introduced into said line, and means for controlling the flow of chlorine to the metering apparatus according to the pressure of the water in the line, whereby a proper amount of chlorine is delivered to the water.

2,168,617

CORN SHELLER

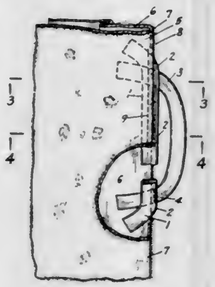
John A. Erickson, Jackson, Mich.

Application July 10, 1937, Serial No. 152,929
5 Claims. (Cl. 130—6)



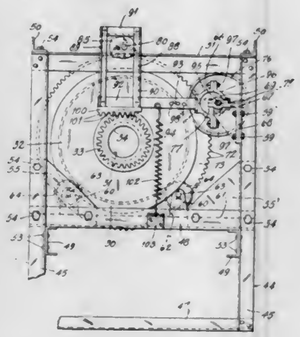
1. A corn sheller comprising a shelling cylinder having a plurality of knobs thereon, each of said knobs presenting a shearing edge, some of said shearing edges being helically aligned with respect to each other and others of said shearing edges being aligned parallel to the axis of rotation of said cylinder, said helically arranged and parallel edges being mutually interspaced over a portion of the surface of said cylinder, means for rotating said cylinder, a yieldable, inclined sleeve extending along said cylinder, and means to feed ear corn between said sleeve and said cylinder, said sleeve resisting outward movement of the ears and said knobs being disposed helically on said cylinder whereby the corn ears are directed axially of said cylinder, said sleeve being closest to said cylinder adjacent the end thereof from which the shelled cobs are directed.

2,168,618
NONRUB FUR COAT EDGE PROTECTOR
David Feshbach, Bronx, N. Y.
Application August 3, 1937, Serial No. 157,083
2 Claims. (Cl. 2—96)



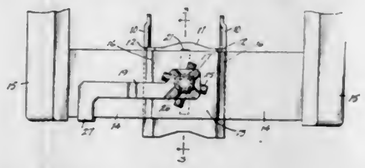
1. A button engager for a fur garment comprising: an edge of the garment as a base member, and a button holding loop attached to said garment edge, said loop comprising a strip of material attached parallel to and projecting beyond said edge, and a second strip attached to the first mentioned strip at two spaced apart points, said second strip being free from said edge and first strip between the points of attachment, said second strip combining with the first mentioned strip to form a button engaging loop.

2,168,619
AMALGAMATOR
Carl A. Hahn, Kirkwood, Mo.
Application November 21, 1936, Serial No. 112,166
6 Claims. (Cl. 209—198)



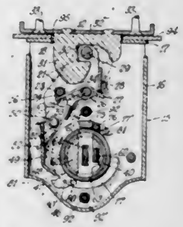
1. In a device of the kind described, an amalgamator drum, means for supporting the drum for movement about its longitudinal axis, means for rocking said drum including a gear fixed to one end of the drum, a rack cooperating with the gear, a drive shaft, an eccentric fixed to the shaft, an eccentric housing fixed to the rack and engaging the eccentric, means for rotating the drum including a second shaft, a gear sector fixed to the second shaft and a gear band concentric of and fixed to the drum, and automatically operable means for synchronizing the said rocking and rotary movement to alternately rock and rotate the drum.

2,168,620
HEIGHT ADJUSTMENT SUPPORT FOR CHAIR BACKS
Walter F. Herold, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application April 6, 1937, Serial No. 135,339
4 Claims. (Cl. 155—157)



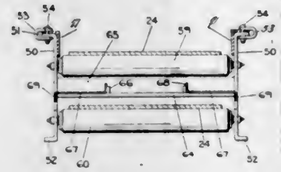
2. In an adjustment support for a chair-back, a supporting member, a chair-back carrying member, one of said members having a slot, a bolt carried by the other member and engaged with said slot, abutment means on said bolt, a locking lever member disposed about said bolt between said abutment means and one of said members, radially disposed camming means carried by said one member, and radially disposed camming means carried by said lever member, there being flat surfaces on one of said last two mentioned members between said camming means, said camming means of said one member and said lever member adapted to register in one operative position and the camming means of one of said members adapted to engage the flat surface of the other member in the other operative position.

2,168,621
COMBINATION LOCK
Joseph H. Lane, Chattanooga, Tenn., and Edwin W. North, Rockford, Ill.; said North assignor to National Lock Co., Rockford, Ill., a corporation of Delaware
Application June 1, 1938, Serial No. 211,200
15 Claims. (Cl. 70—285)
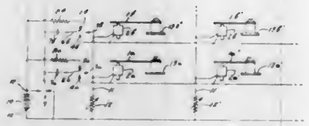


1. In a lock, a bolt lever and means thereon for latching engagement with a keeper, a pawl arranged for movement to move said lever out of latching position, yieldable means urging said lever into latched position, a key lever arranged to be turned in a particular direction to move said pawl and said bolt lever as aforesaid, key-operated means arranged to turn said key lever in said direction, yieldable means urging said pawl in an opposite direction toward said key lever, and permutation lock means arranged for rotative movement concentrically of said key lever and movable into a predetermined position to effect operative engagement with said pawl, subsequent movement of said permutation means in said particular direction being effective to move said pawl and move said bolt lever into unlatched position.

2,168,622
MATERIAL HANDLING MECHANISM
Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application April 6, 1933, Serial No. 664,780
8 Claims. (Cl. 198—204)



1. Conveyor apparatus comprising head and foot sections and at least one intermediate section, and cross-chairs for supporting the sections, the cross-chairs comprising opposing standards forming frame supporting members, an inverted T-shaped bar connecting the supporting standards, upstanding members on the bar, and substantially Z-shaped shield plates extending from one cross-chair to the next succeeding cross-chair, the shield plates having one flange braced by one of the upstanding members on the bar and the other flange engaging a corresponding supporting standard.

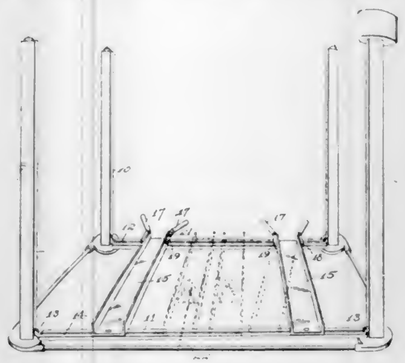
2,168,623
APPARATUS FOR THE PRODUCTION OF MUSIC
Benjamin F. Miessner, Millburn Township, Essex County, N. J., assignor to Miessner Inventions, Inc., Millburn Township, Essex County, N. J., a corporation of New Jersey
Application April 28, 1937, Serial No. 139,493
16 Claims. (Cl. 84—1.13)



1. A musical instrument for output tones of a plurality of musical notes, having for each note a plurality of damped vibrators respectively tuned to a uniform several partial tone components; a plurality of impulse excitation means each for simultaneously exciting all the vibrators for a respective note into damped vibrations; and a plurality of single electrical control elements each for correspondingly varying the harmonic structure of all the output tones in respect of a respective one of said partial tone components.

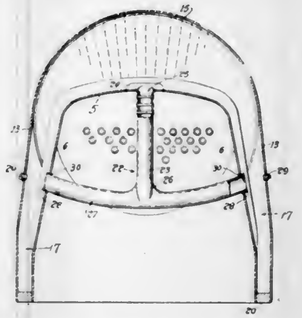
2,168,624
AUTOMOBILE LIFT PLATFORM
Claude E. Musgrave, Cedar Rapids, Iowa, assignor to Globe Hoist Company, Des Moines, Iowa, a corporation of Iowa
Application December 30, 1937, Serial No. 182,510
7 Claims. (Cl. 254—89)

1. An improved automobile lift platform, comprising two transverse platform end members and two wheel runways mounted thereon, and means for pivotally and slidingly connecting one end



of each runway with the adjacent end platform member upon which it is mounted.

2,168,625
LOCOMOTIVE FIREBOX
Arthur W. Nelson, Park Ridge, Ill., assignor to Locomotive Firebox Company, Chicago, Ill., a corporation of Delaware
Application August 2, 1937, Serial No. 156,973
7 Claims. (Cl. 122—68)

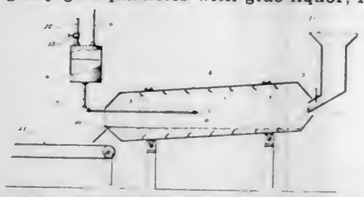


2. A locomotive firebox embodying therein a crown sheet and laterally spaced side sheet portions, means providing a conduit arranged transversely of the firebox and opening at its ends through said side sheet portions at points higher in elevation than a mid portion of said means, and means providing a second conduit opening at one end through the crown sheet and operatively connected at its other end with a mid portion of said first mentioned means and which mid portion is the lowest portion of said first mentioned means.

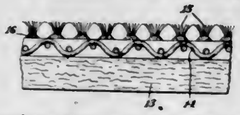
2,168,626
GLUE TREATMENT
Roy C. Newton and Frank L. De Beukelaer, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application November 21, 1936, Serial No. 112,159
4 Claims. (Cl. 34—24)

1. The method of drying glue which comprises

coating dry glue particles with glue liquor, forming coated particles in clusters and subsequently drying the clusters.

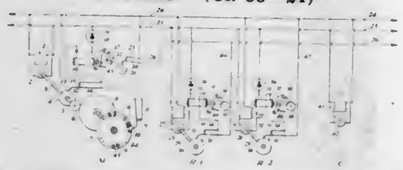


2,168,627
ACOUSTICAL TREATMENT FOR UPHOLSTERED STRUCTURES
Theodore M. Prudden, Hingham, Mass.
Application October 5, 1937, Serial No. 167,377
2 Claims. (Cl. 154—44)



1. In combination, an interior surface carrying a porous sound absorbent material, and a sound penetrable and sound-reflection-reducing decorative and wear-resisting covering for said sound absorbent material, said covering comprising a limp flexible backing sheet in juxtaposition thereto, said sheet having interstices for the passage of air-borne sound therethrough, having spaced applications of cement on its exposed face, and having erected fibres flocked on and attached to said exposed face by said cement, the spaces between said cement applications permitting air-borne sound to readily pass through the sheet and reach the underlying sound absorbent material.

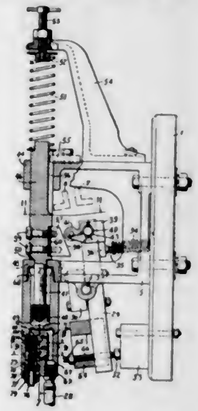
2,168,628
TIME SYSTEM
Clyde S. Richardson, Harvey, Ill., assignor, by mesne assignments, to General Time Instruments Corporation, New York, N. Y., a corporation of Delaware
Application April 27, 1936, Serial No. 76,660
5 Claims. (Cl. 58—24)



1. A time system comprising master apparatus and a plurality of secondary apparatuses, a synchronous motor in each secondary apparatus and electrical connections therefor whereby each motor operates continuously, means controlled by each motor for advancing its associated apparatus, and means controlled by said master apparatus for periodically rendering said last means inoperative.

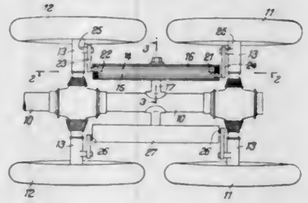
2,168,629
PNEUMATICALLY OPERATED ELECTRIC CONTACTOR
Charles H. Rippl, Cleveland, Ohio, assignor to The Clark Controller Company, Cleveland, Ohio, a corporation of Ohio
Application February 11, 1938, Serial No. 189,969
7 Claims. (Cl. 200—82)

1. In a pneumatically operable contactor mechanism, an expansible and contractible chamber having a movable wall, an electric contactor, mechanism means effective upon movement of the movable wall by application of fluid pressure to the chamber to both operate and restore the contactor and ineffective to operate the contactor when the pressure in the chamber is relieved, means providing a fluid pressure admission passageway leading to the chamber, a fluid pressure exhaust passageway leading from the chamber, a valve comprising a valve element



controlling both passageways and biased to a normal position in which it closes the admission passageway and opens the exhaust passageway and being subjected to admission pressure in the admission passageway and movable thereby to open the admission passageway and close the exhaust passageway upon admission of fluid to the admission passageway at pressure above a predetermined value only, to insure operation of the contactor at fluid pressures above said minimum pressure only.

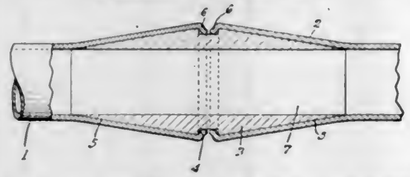
2,168,630
VEHICLE
Karl Ludwig Schiff, Berlin-Marienfelde, Germany
Application August 19, 1937, Serial No. 159,980
In Germany August 26, 1936
3 Claims. (Cl. 280—104)



1. In a vehicle, the combination comprising a frame, two wheel carriers, wheels guided thereby for up and down movement relative to said frame, a spring holder extending between said carriers, means for mounting said holder on said frame for pivotal movement about a transverse axis, two torsional spring bars supported by said holder and extending substantially longitudinally thereof and having one of their ends rotatably mounted in the ends of said holder adjacent to said carriers and having their other ends rigidly connected, arms attached to the rotatable ends

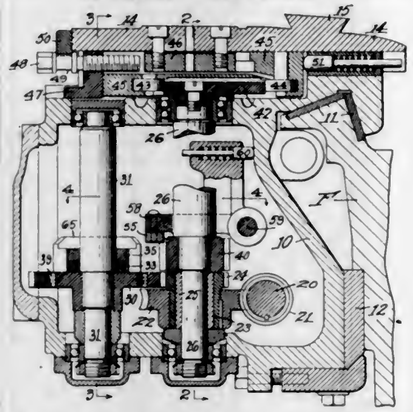
of said spring bars and mounted to be turned in response to up and down movement of said carriers, whereby up and down motion of either wheel will impart pivotal movement to said holder so as to equally tension both spring bars.

2,168,631
PLUMBING FITTING
Philip Lane Scott, Chicago, Ill., assignor to Super Diesel Tractor Corporation, La Porte, Ind., a corporation of New York
Application August 19, 1935, Serial No. 36,881
5 Claims. (Cl. 285—197)



1. A connector for metallic tubing comprising a double exteriorly tapered sleeve having approximately the same interior diameter as that of the said tubing and provided with a groove positioned substantially at its middle and formed in its exterior, and having a feather edge at one end said edge expanding under internal pressure effect a seal.

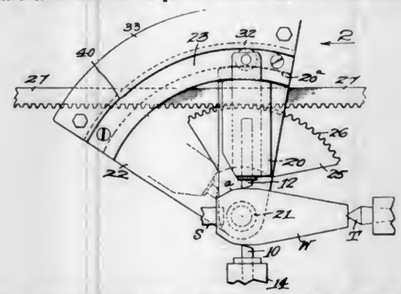
2,168,632
FEED MECHANISM FOR A MACHINE TOOL
Edwin R. Smith, Seneca Falls, N. Y., assignor to Seneca Falls Machine Company, Seneca Falls, N. Y., a corporation of Massachusetts
Application May 16, 1938, Serial No. 208,199
11 Claims. (Cl. 82—24)



1. A feed mechanism for a machine tool having a fixed work cycle comprising a slide, automatic means to advance and withdraw said slide, said means comprising an operating shaft and means to give said shaft successive part revolutions during each work cycle, and means to lock said shaft between advance movements thereof.

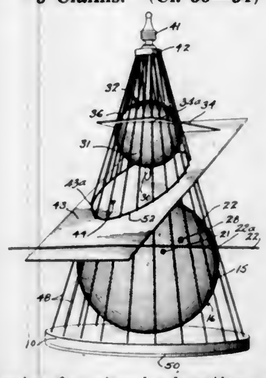
2,168,633
CONTOUR TURNING ATTACHMENT
Edwin R. Smith, Seneca Falls, N. Y., assignor to Seneca Falls Machine Company, Seneca Falls, N. Y., a corporation of Massachusetts
Application May 19, 1938, Serial No. 208,865
4 Claims. (Cl. 82—12)

1. In a machine tool, a contour turning attachment comprising a tool holder, a stand mounted on a fixed pivot and in which said holder is slidably mounted, automatic means to swing said stand about its pivot while the tool is cutting,



and pattern means to slide said tool holder radially in said stand as said stand swings on its fixed pivot.

2,168,634
GEOMETRIC MODEL
Walter Arthur Spencer, Chicago, Ill.
Application July 29, 1937, Serial No. 156,294
3 Claims. (Cl. 35—34)

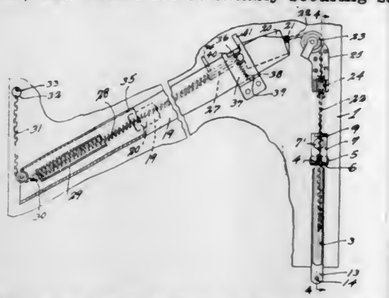


2. A device for visual education comprising a base having a central countersunk bore therethrough, a rod extending through said bore having a head portion engaging the base, a support receiving the top portion of the rod, strand material laced between the support and base over the top of the support and under the bottom of the base, covering members disposed over the support and under the base to cover the strand material, a member disposed around said rod and extending at least to each run of said strand material between the base and support, to define in cooperation with said runs the outline of a geometric figure, and means disposed around said rod for holding said support and said member in spaced relation from each other and from the base.

2,168,635
DOOR HOLDER
James A. Wallace, Spokane, Wash.
Application May 2, 1938, Serial No. 205,482
9 Claims. (Cl. 292—338)

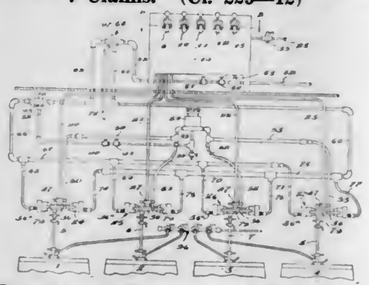
1. In a door holder, a bar, means for pivoting the upper end of said bar to a door for vertical swinging movement from a lowered operative position to a raised position, a slidably mounted weight, a flexible connection between the bar and one end of said weight, a spring yieldably resisting movement of the weight in a direction to slacken

said flexible connection and permit lowering of the bar, and means for releasably securing said



weight in a set position with the spring distended and under tension.

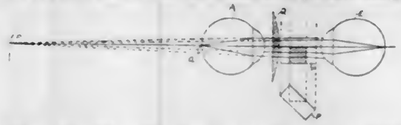
2,168,636
LIQUID DISPENSING SYSTEM
Arthur Gordon Wheler and Martin J. Roznowski, Syracuse, N. Y., assignors of one-half to Sidney A. Scobell, Syracuse, N. Y.
Application March 30, 1938, Serial No. 198,930
7 Claims. (Cl. 225—12)



1. In a liquid dispensing system, a reservoir for the liquid under pressure to be dispensed, a discharge faucet, a conduit between the reservoir and the faucet, a two-way valve in the conduit adjacent the reservoir operable by a cleansing fluid under pressure in a conduit connected thereto and operable to open the conduit to the flow of the liquid and to close the conduit to the flow of liquid and open it to the cleansing fluid, and vice-versa, an air conduit connected to the former conduit adjacent the faucet and having a normally closed valve therein, a valve for controlling the flow of the cleansing fluid, all whereby upon opening of the air conduit the liquid is forced retrogradely in the first conduit into the reservoir, and upon operation of the cleansing fluid valve in one direction to operate the two-way valve, the first conduit is closed to the flow of liquid from the reservoir and open to the flow of the cleansing fluid, and upon operation of the cleansing fluid valve in the other direction, the two-way valve is operated to close the first conduit to the flow of the cleansing fluid and open it to the flow of the liquid from the reservoir.

2,168,637
OPTICAL INSTRUMENT
Arthur Whitwell, London, England, assignor to The Emerson Optical & Mfg. Co. Ltd., London, England
Application May 19, 1937, Serial No. 143,601
In Great Britain May 29, 1936
1 Claim. (Cl. 88—1)

An optical viewing instrument for determining the accuracy of focus of a given lens system with respect to a desired predetermined focus, said instrument comprising a second lens system arranged coaxially to said given lens system and with one of its foci coincident with said predetermined focus so as to refocus the rays emerging from said given lens system at infinity, and a relatively thick plane parallel plate mounted with its parallel refracting surfaces disposed obliquely to the axis of said lens systems and positioned but

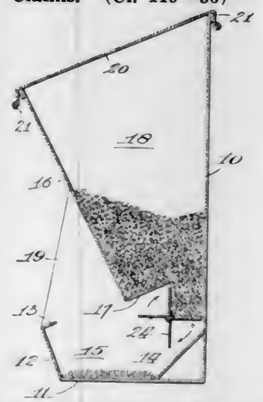


partially across the path of the rays therefrom and with one of its bounding edges arranged to divide the emergent rays therefrom into two parts, whereby the image portions observed beyond said plate are coincident in position and sharp in definition when said given lens system is properly focussed upon said predetermined focus but relatively displaced and blurred when said given lens system is focussed elsewhere than at said predetermined focus.

2,168,638
CHEMICAL PLATING
Daniel C. Wilkerson, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
No Drawing. Application October 11, 1934, Serial No. 747,885
5 Claims. (Cl. 134—24.5)

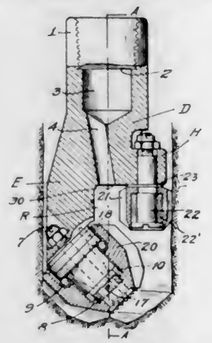
5. In the electro-deposition art, in combination, a conductive light-sensitive metallic salt solution and suspended colloidal carbon in said solution acting also as a deoxidizing agent.

2,168,639
RABBIT FEEDER
Bruce M. Yeaman, Glendale, Calif.
Application October 23, 1937, Serial No. 170,577
3 Claims. (Cl. 119—56)



1. In a rabbit feeder, a plurality of walls arranged to form a food storage chamber and a feeding trough below said storage chamber, the wall in front of the storage chamber being inclined so that the width of the chamber between the front and rear walls gradually decreases toward the bottom of said chamber, the wall at the bottom of the storage chamber being inclined so that it projects upwardly and rearwardly toward the rear wall of the storage chamber, there being an opening formed between the rear upper edge of said inclined bottom wall and the rear wall of the storage chamber, and a winged member arranged for rotation between the rear portion of the feeding trough and the rear edge of the inclined bottom wall of the storage chamber, the axis of which rotary member is disposed in the same vertical plane with the rear edge of the inclined bottom wall of the storage chamber and the width of the wings of said rotary member being such that their outer edges traverse a circular path immediately adjacent the under face of the inclined bottom wall of the storage chamber and the wall to the rear of said storage chamber and feeding trough.

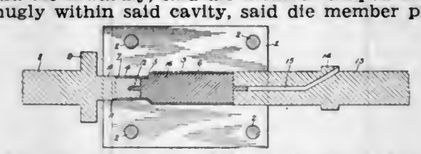
2,168,640
ROTARY-DRILL WELL BIT
Walter Andrew Abegg, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif.
Application April 29, 1937, Serial No. 139,756
6 Claims. (Cl. 255—71)



1. In a bit for attachment to a drill pipe, a body member having an integral tubular spindle extending at an incline from the outside downwardly toward the drilling center axis, a bearing bushing sleeve over said spindle and fixed from revolving thereon, roller and ball bearing races on said sleeve, a main rotary toothed cutter mounted on said bearings, a smooth cylindrical projection on said cutter, a beveled cutting toothed disk mounted to revolve on said projection, a cap having a cylindrical portion and fixed at the bottom end of said integral spindle and provided with an annular flange at the end of the cylindrical portion, a beveled cutting toothed disk mounted to revolve on the cylindrical portion of said cap against the flange and in close contact with its adjacent beveled cutting toothed disk, a bolt passing through said cap and through the said integral spindle and adapted to hold said cutter and disks in assembly and in place; in combination with vertically arranged toothed roller reamer cutters mounted on the body to sustain the lateral thrust on the bit and to ream the hole, and a passageway in the body adapted to extend from the drill pipe bore and aligned to impinge circulation fluid upon and thereby clean the said cutting assembly.

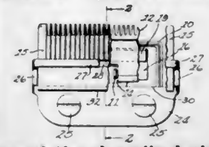
2,168,641
DIE MECHANISM
Alfred C. Arbogast, Elkhart, Ind., assignor to Northern Indiana Brass Company, Elkhart, Ind., a corporation
Application March 7, 1938, Serial No. 194,251
13 Claims. (Cl. 78—60)

1. In combination in a metal forming apparatus, means defining a cavity, a die member extending into said cavity, and means for moving said die inwardly, said die member shaped to fit snugly within said cavity, said die member pro-



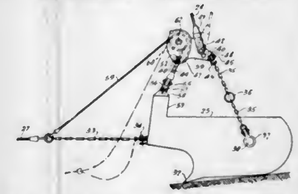
vided with an open ended passage formed in it extending from a point inside said cavity to a point outside said cavity, and having an open end outside of said cavity.

2,168,642
REPLACEABLE HAIR CLIPPING BLADE SET
Mathew Andis, Racine, Wis.
Application March 18, 1937, Serial No. 131,625
9 Claims. (Cl. 30—208)



1. In a device of the described class, the combination of a holder provided with a fixed mounting for interlocking engagement with the rear margin of a shearing comb plate, a shearing comb plate having a channel in the central portion of its under surface, and a comb plate supporting rod interlockingly engageable in said channel and having its ends connected with the mounting across the ends of the comb plate.

2,168,643
DRAG BUCKET CONTROL
Leo Berner, Huntington Park, Calif.
Application March 22, 1938, Serial No. 197,354
15 Claims. (Cl. 37—135)

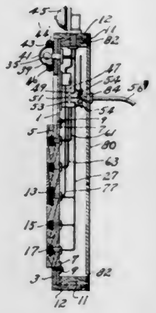


1. In an excavating apparatus, the combination of: a drag bucket; a drag line connected to the bucket; a hoist line for transporting the bucket; means interconnecting said hoist line and bucket rearwardly of the center of gravity of the bucket; means carried by said hoist line for releasably interconnecting said hoist line and the bucket forwardly of the center of gravity of the bucket, said forward interconnecting means being disposed to make such connection automatically when the hoist line is initially elevated with the bucket on the ground and the drag line slack; and means operatively connected with the drag line to release said forward interconnecting means when the drag line is tensioned, thereby to cause the bucket to drop to dumping position.

2,168,644
TARGET INDICATING GAME
Albert E. Browning, Detroit, Mich.
Application October 14, 1936, Serial No. 105,486
2 Claims. (Cl. 273—102.2)

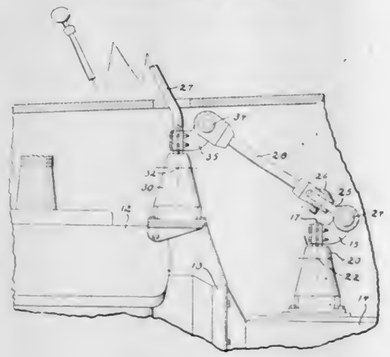
1. A dart receiving target for an indicating

target game comprising, a target board for receiving metallic pointed darts, a bull's-eye recess in said target board, concentrically disposed annular recesses in said target board surrounding said bull's-eye recess in substantially spaced apart relation to provide insensitive dart receiving areas therebetween, layers of metallic material disposed



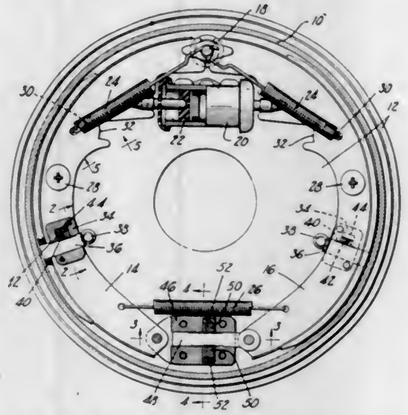
in spaced apart relation in said recesses for conductive connection through the metallic pointed darts received by the target board, layers of insulating wax congealed in said recesses for insulating and securing said layers of metallic material in spaced relation, and electrical conductors extending from said layers of metallic material through the back of the target board.

2,168,645
LINKAGE MECHANISM
Charles C. Glidden, Highland Park, Mich., assignor to Edward H. Perkins, Royal Oak, Mich., and Herbert R. D. Wilson, Baltimore, Md.
Application May 11, 1936, Serial No. 79,101
6 Claims. (Cl. 74—473)



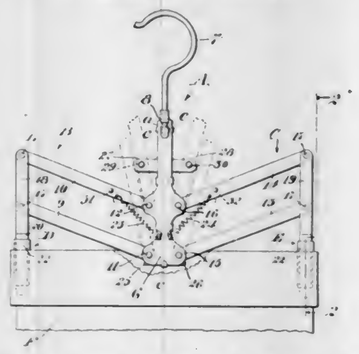
1. In combination with driving and driven levers spaced from each other and limitedly movable through a plurality of planes, connecting means for driving the latter from the former comprising a pair of links articulated to each other upon a transverse axis, and pivot means connecting the free end of each link to one of each other in at least one position through which said levers, said pivot means being parallel to said levers are movable but at right angles both to said first mentioned axis of articulation of the links and to at least one of said links.

2,168,646
BRAKE
Rudolph A. Goepfrich, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application October 8, 1937, Serial No. 167,924
3 Claims. (Cl. 188—79.5)



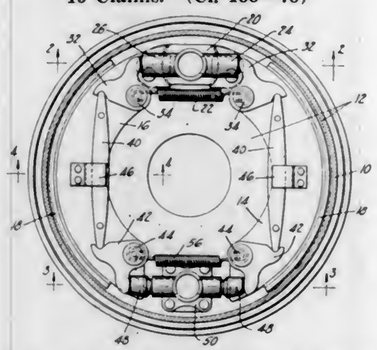
1. A brake shoe having a stop including a plunger mounted on the shoe for movement crosswise of the shoe and one end of which is engageable with a drum against which the shoe is forced and which plunger is provided with a ratchet along one side, a series of pawls carried by the shoe and engaging the ratchet, and a block of yielding material individually pressing the pawls against the ratchet.

2,168,647
GARMENT HANGER
Sidney E. Herman, Hollywood, Calif., assignor to Frances Herman
Application March 29, 1938, Serial No. 198,660
4 Claims. (Cl. 223—95)



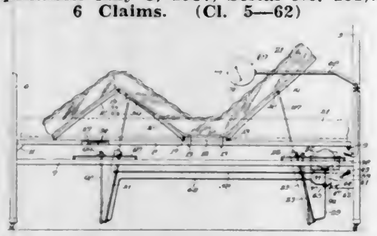
1. In a garment hanger, a supporting frame, resilient links carried swingably on and projecting from opposed edges of said frame, garment engaging members carried by said links, and projections carried by said links which project from plane in which they swing for releasably fastening said links in a folded position along the opposed edges of said frame, side portions of said frame having recesses into which said projections spring when said links are swung to the folded position.

2,168,648
BRAKE
John Samuel Irving, Birmingham, England, assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application February 7, 1938, Serial No. 189,044
In Great Britain July 24, 1937
15 Claims. (Cl. 188—78)



1. A brake comprising shoes each movable to anchor at either end, applying means, and balanced force-transmitting means acted on by the applying means and applying pressure to both ends of both shoes and including thrust-balancing mechanisms mounted on said shoes and acted on by said applying means at one side of the brake and which are fulcrumed at the other side of the brake.

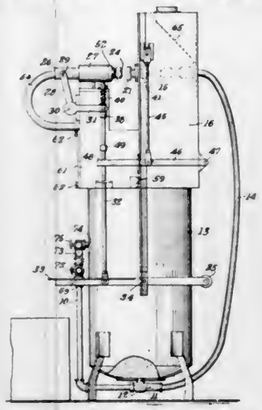
2,168,649
INVALID BED ACCESSORY
John A. Johnson, Clinton, Iowa
Application July 3, 1937, Serial No. 151,798
6 Claims. (Cl. 5—62)



6. In an accessory for a hospital bed having a bed frame pivotally connected thereto at one end and a supplemental frame comprising a plurality of pivotally connected sections, one of said sections being pivotally connected to said first frame, and abutments carried by said frame and a section of said supplemental frame, the combination of elevating mechanism adapted to be adjustably carried by said bed, and means for selectively positioning said elevating mechanism in cooperative relation to the abutment of said frame or the abutment of said section to thereby enable the elevation of said frame or said section of said supplemental frame at will upon actuation of said elevating mechanism.

2,168,650
GLASS PERFORATING
William A. Maher, Maywood, Ill., assignor to Crowe Name Plate & Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application March 12, 1938, Serial No. 195,626
21 Claims. (Cl. 51—8)

1. In a glass perforating device, registering stencil masks exposed for placement of the glass between them, means for effecting relative separation and approach of said masks and wholly enclosed means for directing a cutting blast into one stencil mask and for carrying away the cut-

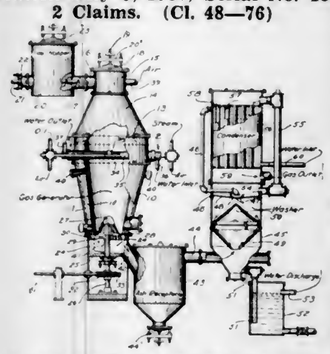


ting-through blast from the other mask and means interconnected with said means for effecting relative separation and approach of the masks for automatically stopping said cutting blast before separation and for starting said blast after the approach of said stencil masks.

2,168,651
PACKAGING PROCESS AND MEDIUM
Thomas A. McCoy, Oakland, Calif.
No Drawing. Application June 30, 1936, Serial No. 88,213
8 Claims. (Cl. 93—2)

1. A method of packaging which includes the steps of sealing an article at atmospheric pressure in a loosely fitting wrapper consisting of a stabilized rubber hydrohalide, and heating the entire surface of said wrapper to a temperature and for a time sufficient to shrink the same to closely embrace the surface of the article without imparting even temporary tackiness to said wrapper.

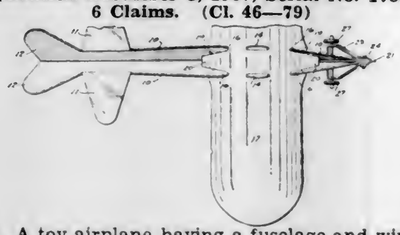
2,168,652
APPARATUS FOR PRODUCING GAS
John U. McDonald, Clinton, Mo.
Application July 9, 1937, Serial No. 152,726
2 Claims. (Cl. 48—76)



2. In a gas producing apparatus, the combination with a generator having a chamber with a combustion zone intermediate the top and bot-

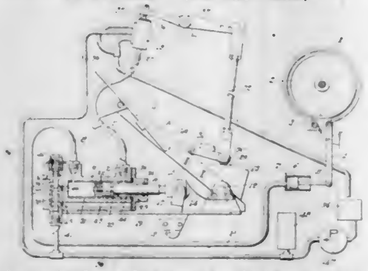
tom, means for admitting fuel into the top of the generator, and means for delivering residue ash and gas from the lower end of the generator, of a conduit extending transversely across the interior of the generator in an upper part of said zone to have the conduit supported by opposite sides of the generator, through which conduit gas making fluids may be selectively and simultaneously admitted centrally of said zone, said conduit having an upwardly vertically directed discharge opening, said generator having its upper fuel receiving portion frusto-conically shaped and its lower combustion zone inverted frusto-conically shaped, and said conduit passing diametrically across the generator between the two conical portions to have said opening positioned axially of the generator.

2,168,653
TOY AIRPLANE
Ira E. Meagher, Jr., Minneapolis, Minn.
Application December 8, 1937, Serial No. 178,711
6 Claims. (Cl. 46—79)



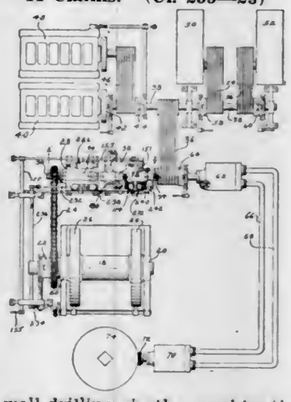
1. A toy airplane having a fuselage and wings, the fuselage being formed of a plate bent approximately V-shaped in cross section, a bifurcated keel plate embracing the front lower portion of said fuselage with a portion thereof below and a portion projecting forward thereof, and a landing gear pivotally connected to the front portion of said fuselage and to the front portion of said keel plate by a pivot permitting forward and rearward adjustments of said landing gear.

2,168,654
BRAKE OPERATING MECHANISM
Gustaf H. Olson, Charles F. Schoelm, and Harold F. Allen, Chicago, Ill., assignors to Link-Belt Company, Chicago, Ill., a corporation of Illinois
Application January 13, 1938, Serial No. 184,776
11 Claims. (Cl. 188—151)



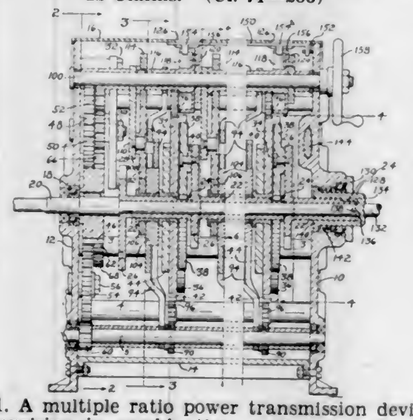
1. A control mechanism for brakes and the like comprising a manually operated lever and a brake, a hydraulic brake system interposed between them adapted to transmit power from the lever to the brake, a hydraulic pressure system associated with the hydraulic brake system, means responsive to movement of the lever for supplying hydraulic fluid from the pressure system to assist the operator in moving the lever, means for admitting hydraulic fluid from the pressure system to the brake system, and automatic means for closing the connection between the pressure system and the brake system when the pressure in the pressure system falls beyond a predetermined point.

2,168,655
POWER TRANSMISSION
Edwin L. Rose, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application July 15, 1936, Serial No. 90,785
11 Claims. (Cl. 255—23)



1. In a well drilling rig the combination with a tool string of a drum, a prime mover, a variable displacement pump driven by the prime mover, a fluid motor hydraulically connected to the pump and mechanically connected to the drum, a cable having one end wound on the drum and adapted to support the tool string, and means responsive to the weight supported by the cable for controlling the displacement of the pump to maintain the force of the tool string against the earth substantially constant.

2,168,656
POWER TRANSMISSION
Edwin L. Rose, Watertown, and Ralph L. Tweedale, Waterbury, Conn., assignors to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application February 16, 1937, Serial No. 126,022
12 Claims. (Cl. 74—283)

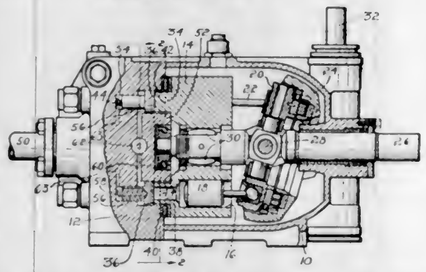


1. A multiple ratio power transmission device comprising in combination an input shaft, an output shaft, a plurality of differentials connected in series between the input and output shafts and each having a third member by the speed of which the overall ratio of each differential may be controlled, and locking means and a plurality of driving trains common to all of said differentials and capable of selectively driving each of said third members at any of several speeds varying by equal increments from zero to input shaft speed, said differentials having a speed reduction factor when the third member is held stationary, equal to the number of speeds, including zero, at which the third members can be driven.

2,168,657
MEDICINAL PREPARATION
Oscar A. Strauss, Milwaukee, Wis.
No Drawing. Application April 22, 1937, Serial No. 138,369
4 Claims. (Cl. 167—70)

1. A preparation for the treatment of disturbances of the circulatory system, comprising a mixture of colloidal iodine with sodium cacodylate.

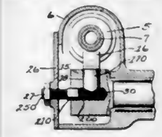
2,168,658
POWER TRANSMISSION PUMP OR MOTOR
William Thomas, Waterbury, Conn., assignor to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut
Application December 24, 1936, Serial No. 117,632
4 Claims. (Cl. 103—162)



1. In a fluid pressure energy translating device having a plurality of cylinders and pistons reciprocable therein; a rotary valve structure comprising two relatively rotatable abutting members, one member having an annular projection with cylindrical inner and outer side surfaces and a plane end face, the other member having an annular recess into which said projection is receivable with a running and sealing fit at the inner and outer cylindrical surfaces bounding the annular projection, ports in one member communicating with each of said cylinders, and a pair of inlet and outlet ports in the other member, the ports of one member opening to the ports of the other member at said end face to connect each cylinder alternately with the inlet port and the outlet port.

2,168,659
STEERING GEAR
B. Wickliffe Twyman, Milwaukee, Wis., assignor to Lavine Gear Company, Milwaukee, Wis., a corporation of Wisconsin
Application August 27, 1937, Serial No. 161,233
15 Claims. (Cl. 74—497)

1. A steering gear comprising the combination with a worm cam, of a rock shaft provided with a cam follower adjustable substantially radially of the rock shaft into thrust engagement with the worm cam, and means comprising a compressed rubber cushion and means confining said

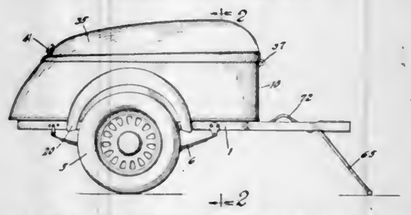


cushion under compression for maintaining the adjusted position of the cam follower with respect to the rock shaft.

2,168,660
SALTS OF DIHEXAHYDROCRESYL SULPHOPHTHALATES
Otto Albrecht, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application January 26, 1934, Serial No. 708,511. In Switzerland January 30, 1933
1 Claim. (Cl. 260—470)

As assistants in those industries which use wetting, dispersing and dissolving agents, the aqueous solutions containing as cations the ions of metals of the group consisting of magnesium, calcium and barium and as anions the ions of the esters of sulphonated phthalic acid whose carboxylic groups are esterified with hexahydrocresol.

2,168,661
TRAILER
Carl J. Anderson, Lakewood, and John Clyde McKee, Salem, Ohio, assignors to Mullins Manufacturing Corporation, Salem, Ohio, a corporation of New York
Application April 29, 1936, Serial No. 76,970
2 Claims. (Cl. 296—23)

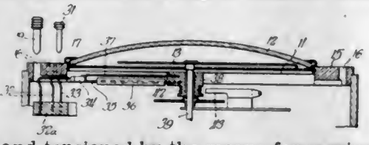


1. A two wheel trailer adapted to be connected to an automotive vehicle and comprising, a body open at its top, a frame projecting forwardly from the body, a cover hinged to the forward part of the body and openable to a substantially horizontal position forwardly of the body, an axis member mounted in the forward projecting portion of the frame, supporting legs on the axis member movable to ground engaging position and foldable rearwardly to collapsed position, a cradle member mounted on the axis member and foldable rearwardly and arranged to rest upon the collapsed supporting legs and movable forwardly to serve as a cradle for supporting the open top.

2,168,662
RADIO PROGRAM ANNUNCIATOR
Garrison Babcock, Seattle, Wash., assignor to A. H. B. Jordan, Everett, Wash.
Application April 1, 1936, Serial No. 72,103
8 Claims. (Cl. 161—4)

6. In combination, a movable contact, means

for moving said movable contact, a contact having an operative position in the path of movement of said movable contact to be engaged by said movable contact in the movement thereof, one of said contacts being of resilient construc-



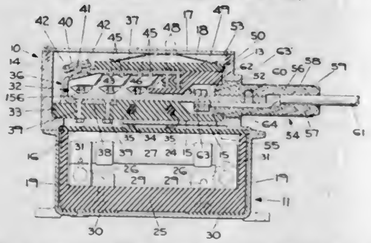
tion and tensioned by the means for moving said movable contact upon engagement of said movable contact with the other contact, and thermally actuated means for moving said resilient contact out of engagement with the other contact.

2,168,663

PLUG TYPE SWITCH

Walter J. Bauroth, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio

Application April 3, 1936, Serial No. 72,638
10 Claims. (Cl. 173—332)



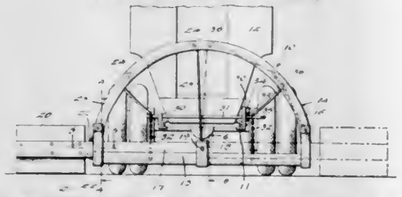
6. In a switch, the combination with an insulating base, of a pair of conducting plates of unequal length supported thereby, means electrically connecting said plates, contact means carried by the longer plate and extending toward the shorter plate and adjacent thereto, and readily removable contact means carried by said longer plate and extending toward said shorter plate but positioned at a point removed from said shorter plate.

2,168,664

ROAD-GRADING DEVICE

Elijah W. Bayes, Parsons, Kans.

Application September 8, 1937, Serial No. 162,930
Renewed April 17, 1939
6 Claims. (Cl. 37—180)



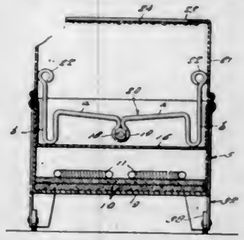
1. A device of the character described, comprising, a frame for attachment to the rear end of a road grading machine and fashioned with a pair of spaced vertically disposed semicircular frame members having angularly disposed end sections forming brackets and a transversely extending member connected to and extending between said brackets, an arm pivoted to said transversely extending member intermediate the ends thereof and swingable to positions within said brackets and laterally of said frame, a blade secured to the end of said arm and adapted for engagement with a road surface, and means carried between said semicircular members for operating said arm from a power source on said machine.

2,168,665

CORN POPPER

Ellsworth Branam, Mendon, Ohio

Application June 14, 1938, Serial No. 213,705
5 Claims. (Cl. 53—4)



1. A corn popper comprising a corn-receiving receptacle, a cover for the receptacle, detent means for the cover, said detent means comprising an elongated spring member having its intermediate portion secured to the inner side of the receptacle and having its end portions bent upwardly and sprung outwardly to tensionally bear against the inside of the cover.

2,168,666

PROCESS FOR TREATING MINERAL OILS

Michael R. Cannon, State College, Pa.

No Drawing. Application February 20, 1937, Serial No. 126,835
9 Claims. (Cl. 87—9)

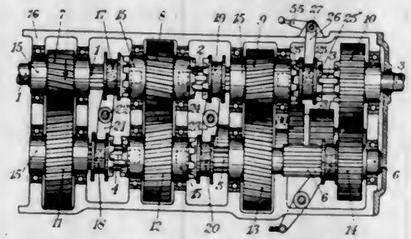
6. A lubricating oil having in solution therein a small quantity sufficient to stabilize against bearing corrosion of a substance resulting from the reaction of an oil with a sulfonating agent followed by reaction with urea.

2,168,667

CONTROL DEVICE FOR CHANGE-SPEED GEARS

Erwin Dausch, Friedrichshafen-on-the-Bodensee, Germany, assignor to Maybach-Motorenbau Gesellschaft mit beschrankter Haftung, Friedrichshafen-on-the-Bodensee, Germany, a corporation of Germany

Application March 12, 1938, Serial No. 195,622
In Germany June 30, 1937
4 Claims. (Cl. 74—364)



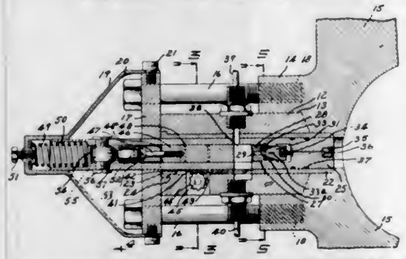
1. A control device for a gear wheel type change speed gear of the kind having disengageable positive engaging members for effecting changes of gear ratio, acceleration of the driving shaft being necessary for the engagement of some of said gear ratio change members and retardation of the driving shaft being necessary for the engagement of others, and in which the selection of at least one of the gear ratios requires the engagement of gear ratio change members requiring acceleration and of gear ratio change members requiring retardation, said control device comprising fluid pressure operated pistons for engaging and disengaging said gear ratio change members, conduits for pressure medium connected to the cylinders of said pistons, a distributing valve connected to the conduits for carrying pressure medium effective for the engagement of the gear ratio change members requiring acceleration of the driving shaft, a distributing valve connected to the conduits for carrying pressure medium effective for the engagement of the gear ratio change members requiring retardation of the driving shaft, a shut-off valve arranged in series with one of said distributing valves, means for maintaining said shut-off valve shut while pressure medium flowing through the other distributing valve is active for effecting the engagement of gear ratio change members, and means for opening said shut-off valve upon the completion of such engagement.

2,168,668

INJECTOR NOZZLE

Andrew J. Davidson, Jr., Detroit, Mich.

Application September 2, 1937, Serial No. 162,185
2 Claims. (Cl. 299—107.2)



1. In a device of the character described, the combination of a body member adapted to be secured to an internal combustion engine and having a bore adapted to communicate with the combustion chamber of said engine, a sleeve in said bore, a plunger mounted for reciprocation in said sleeve, spring means arranged to move said plunger towards said engine, means timed with said engine to move said plunger away from said engine, a longitudinal bore in said plunger, a stationary core in said last named bore, there being a compression chamber between one end of said last named bore and said core, a fuel inlet communicating with said compression chamber, outlets communicating with said chamber, one of said outlets comprising a by-pass controlled by a gate slidable in a recess formed in said sleeve, said other outlets being arranged to discharge fuel from said compression chamber into said combustion chamber upon the movement of the plunger in the direction away from said combustion chamber.

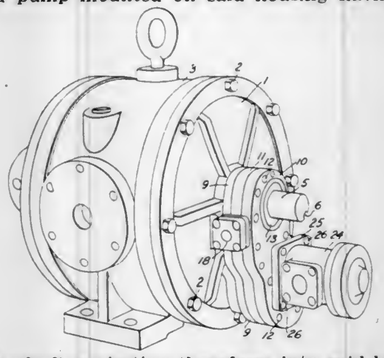
2,168,669

ARRANGEMENT FOR DRIVING AUXILIARY PILOT PUMPS AND SLIPPAGE PUMPS

Walter Ernst, Mount Gilead, Ohio, assignor, by mesne assignments, to The Hydraulic Press Corporation, Inc., Wilmington, Del., a corporation of Delaware

Application September 19, 1935, Serial No. 41,281
Renewed February 11, 1939
6 Claims. (Cl. 103—4)

1. A pumping unit comprising a main hydraulic pump with a driven shaft, a housing adapted to be mounted on said main pump around said driven shaft, a gear adapted to be mounted on said driven shaft in said housing, a second gear meshing therewith supported in said housing, a third pump mounted on said housing having a



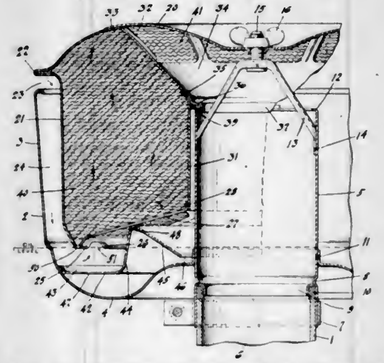
drive shaft projecting therefrom into said housing, and a gear on said drive shaft of the third pump engaging with the second gear so as to be driven thereby, whereby the first two gears act simultaneously as a gear pump and as a driving means for the third pump.

2,168,670

AIR CLEANER

James Clark Evans, Detroit, Mich., assignor, by mesne assignments, to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan

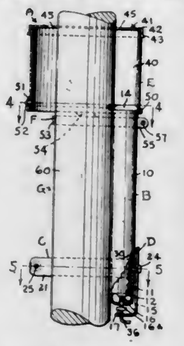
Application March 2, 1936, Serial No. 66,525
7 Claims. (Cl. 183—15)



1. An air cleaner comprising, a lower casing member adapted to receive a quantity of oil with its lower portion constituting an oil sump, an upper casing member carrying a filtering body telescoped into the lower casing member in spaced relation to form an annular air inlet for the passage of air downwardly toward the sump and for the passage of air upwardly through the filtering medium, air outlet means connecting into the upper casing member above the filtering body, the filtering medium being above the oil level in the sump, and a plate member having a laterally extending portion below the normal oil level and a rising wall portion extending upwardly and in substantial contact with the filtering medium to define an air passageway on one side and a quiescent zone on the

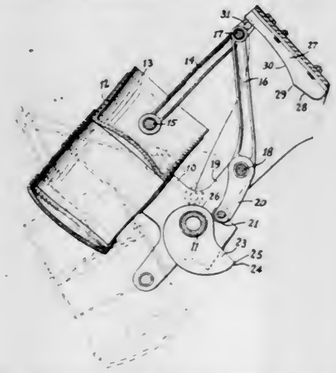
other, said plate having an extending part projecting substantially from the top of the rising wall portion in a direction traversing the quiescent zone, with the free edge thereof projecting below the normal oil level, said plate having apertures therein for the flow of oil from the lower portion of the sump into the air passageway.

2,168,671
SAFETY LAMP
William M. Garlington, Kansas City, Kans.
Application August 2, 1937, Serial No. 157,019
7 Claims. (Cl. 40—130)



5. A signal lamp for implement handles, comprising a lamp casing including an annular wall of translucent material, a closure cap for one end of the annular wall having an axial handle receiving opening for centering the handle in the annular wall and providing an annular light chamber, and clamping means at the other end of the annular wall for securing the lamp casing to the handle, an electric flashlight including an elongated housing and a light bulb at one end of the housing, said end of the housing being secured to the handle by said clamping means with the light rays from the bulb projecting into said light chamber, and clamping means for securing the other end of the housing to said handle.

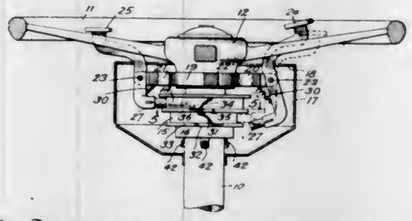
2,168,672
MOTOR
Manuel Carrasco-Sánchez, New York, N. Y.
Application September 19, 1936, Serial No. 101,650
5 Claims. (Cl. 121—58)



2. In a rotary expansible chamber motor, a rotor mounted upon an axle and including a skeleton arm extending from the axle, a ring carried by the arm and having its axis tangential to the circle described by its rotation with the rotor about the center of the axle, a cylinder having its central portion engaged in the ring and extending axially upon either side of the ring, the said cylinder having a circumferential rib engaging the ring upon one side thereof, a head upon the end of the cylinder on the same side of the ring as the rib and spaced from the rib, and screw threaded means connecting the head and the ring to secure the cylinder together so that the rib abuts the edge of the ring.

4. In an expansible chamber motor including a rotor, a tangentially arranged cylinder carried by the rotor, a piston reciprocable in the cylinder and having a piston-rod extending beyond the end of the cylinder, means for releasing fluid pressure within the cylinder during a portion of the rotation of the rotor to produce a power-stroke, and means for permitting the fluid to exhaust during a portion of the rotation occurring between power-strokes, the combination with a stationary cam positioned adjacent the rotor, means movably mounted upon the rotor for engaging the cam during a portion of the rotation occurring between the power-strokes and being moved thereby, said means being operatively connected with the piston-rod to transmit inward motion thereto, of a stationary abutment positioned adjacent the rotor and having a bearing surface adapted to be engaged by the end of the piston-rod during the power-stroke, said bearing surface being curved to maintain the piston-rod and piston against axial motion and to correspond to the curve described by the end of the piston-rod during the power-stroke.

2,168,673
AUTOMOBILE SIGNAL
William Hargrave, Hillsboro, Oreg.
Application February 5, 1936, Serial No. 62,542
1 Claim. (Cl. 200—59)



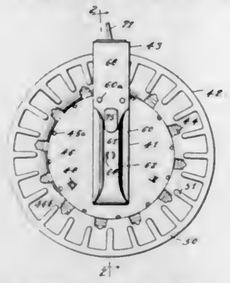
In a signal system for motor vehicles, a switch comprising an insulating collar adapted to be fixed to the steering column and provided with stepped circumferential grooves, an insulating collar adapted to be secured to the steering post and rotate as a unit therewith, a contact ring on the bottom wall of each groove, a plurality of signal levers pivoted on the second named collar and of such length as to extend at the free ends into respective ones of said grooves, a spring pressed plunger on each lever normally disposed below the respective contact rings and adapted to ride into the respective groove and be held by the wall thereof in circuit closing position in wiping contact with the respective contact ring, a deflecting member carried by the first named collar and extending across the bottom of a respective one of said stepped grooves from one wall of the groove to the opposite wall of the groove for pivotally moving the respective lever and permit the respective spring pressed plunger

to be moved transversely off of the respective contact ring to open circuit position, there being a notch in the collar permitting said spring pressed plunger to be moved bodily out of the groove by the deflector member to normal position, and a controlling spring for returning the lever to neutral position and holding the same out of the groove after it has passed through the notch.

2,168,674
LUBRICANT
Clarence M. Loane and Bernard H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application December 5, 1936, Serial No. 114,435
4 Claims. (Cl. 87—9)

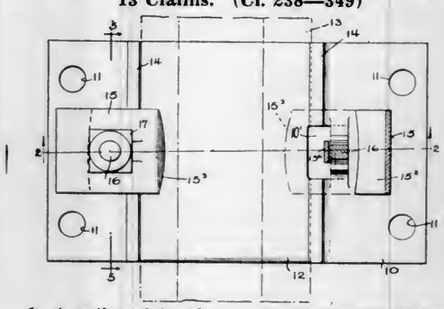
4. The method of lubricating internal combustion engines provided with hard metal alloy bearings having the corrosive susceptibility of alloys of the class consisting of cadmium-silver, cadmium-nickel and copper-lead alloys which comprises applying to said bearings a lubricant comprising a highly refined lubricating oil normally corrosive to said bearings and an organic compound selected from the group consisting of hydrocarbon cyanates having the general formula ROCN, hydrocarbon isocyanates having the general formula RNCO, hydrocarbon cyanides having the general formula RCN, and hydrocarbon isocyanides having the general formula RNC, in which "R" in each instance is a radical selected from the group consisting of alkyl radicals and aryl radicals, said organic compound being used in a small but sufficient proportion to substantially inhibit the corrosion of said bearings.

2,168,675
CLOTHESLINE REEL
Hokan A. Lofgren, Rockford, and Vincent Celmer, Niles, Ill., assignors to Universal Appliance Co., Chicago, Ill., a partnership composed of Carl O. Swenson, Hokan A. Lofgren, Vincent Celmer, and William D. Groseclose
Application August 30, 1935, Serial No. 38,518
10 Claims. (Cl. 242—102)



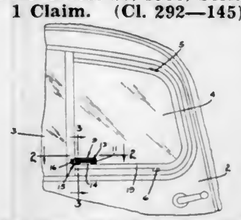
1. A reel comprising a pair of spaced side plates, each having a plurality of laterally projecting circumferentially spaced ears provided thereon in radially inwardly spaced relation to the periphery of the plate, the ears of one plate being in staggered relation to the ears on the other plate and entered between the ears of the other plate with clearance spaces left therebetween and the ears engaged with the inner sides of said plates to locate the plates in fixed spaced relation, the two sets of ears together forming an annular wall onto which the material to be put on the reel may be wound, means for fastening the plates together, an axle passing through the centers of said plates for rotary support of the reel, a spiral spring surrounding the axle between said plates and attached at one end to the axle and having the other end extending out between two adjacent ears in the aforesaid annular wall, and means on the projecting outer end of said spring for retaining the same in assembled relation to the reel.

2,168,676
RAILROAD TRACK CONSTRUCTION
John A. McGrew, Albany, N. Y.
Application August 5, 1937, Serial No. 157,623
13 Claims. (Cl. 238—349)



1. A railroad track construction comprising in combination, a tie plate having a cambered rail engaging and supporting portion and portions extending laterally therefrom, a rail having its base resting upon the rail supporting portion of the tie plate, and a spring clip attached to one of the laterally extending portions of the tie plate at substantially the transverse center line thereof and extending over the rail base and at substantially right angles therewith, the end of the clip having a relatively sharp edge contacting with the rail base at substantially a single point above the peak of the camber on the tie plate.

2,168,677
LOCKING DEVICE
George E. McKeen, Minneapolis, Minn.
Application November 20, 1936, Serial No. 111,880
1 Claim. (Cl. 292—145)



A latch for use with an automobile no-draft window including two glazed panels, one of which is mounted for relative pivotal movement with respect to the other about a substantially vertical axis, said latch comprising a relatively narrow and longitudinally elongated body portion formed of sheet metal and having the longitudinal edge portions deflected to define a guideway, and an end portion deflected to define a hook-shaped portion adapted to engage about an upright edge of the pivoted window panel, said body portion being provided with longitudinally spaced and laterally offset depending barbed prongs adapted to be inserted between the glazed panel and a supporting channel member on opposite sides of

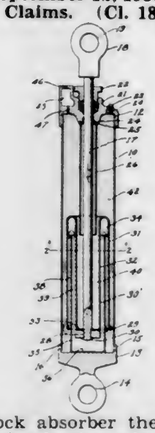
said glazed panel to retain the latch in position, a latching bar slidably mounted in said longitudinal guideway closely adjacent said supporting channel member, one end portion of said latching bar being offset and adapted to engage the adjacent edge portion of the upright stile interposed between said window panels, and a projection carried by the opposite end portion of said latching bar for limiting the longitudinal movement thereof.

2,168,678
ICE TRAY
James H. Miner, Meridian, Miss., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application March 28, 1936, Serial No. 71,489
25 Claims. (Cl. 62—108.5)



1. The combination with an ice tray having flexible side walls, of a yieldable member engageable with opposite side walls of the tray while assuming a concave downwardly formation above the tray, whereby pressure tending to flatten the member will spread the opposite walls of the tray apart and thereby free the contained ice.

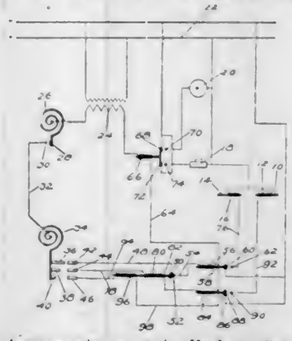
2,168,679
SHOCK ABSORBER
Don D. Myers, Toledo, Ohio
Application September 12, 1936, Serial No. 100,399
5 Claims. (Cl. 188—88)



1. In a shock absorber the combination of a cylindrical casing having a head member at each end thereof; a tubular baffle carried by each of said head members; said baffles being of different diameters; a rod movably positioned within said casing substantially centrally of said baffles; and a baffle carried by said rod and cooperating with said tubular baffles to control the flow of fluid in said casing upon movement of said rod.

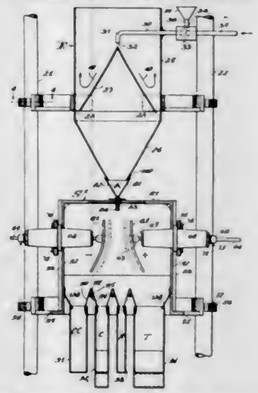
2,168,680
CONTROL SYSTEM FOR HEATING PLANTS
Arnold W. Nordgren, South Bend, Ind., assignor to International Engineering Corporation, Chicago, Ill., a corporation of Illinois
Application January 2, 1936, Serial No. 57,087
4 Claims. (Cl. 236—91)

1. A control system for a heating plant including a large and a small burner having control devices, said system comprising a circuit comprising contacts actuated by room temperature to open and close the circuit and an outdoor thermostat having three sets of contacts closed successively as the outdoor temperature drops and which control three shunt portions of said circuit, means actuated by the closing of the first shunt portion of the circuit for placing the control device of the small burner in a position to be turned on and off by the closing and opening of



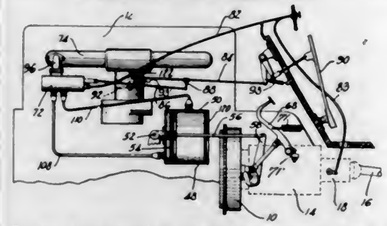
the room temperature controlled contacts, means actuated by the closing of the first and second shunt portions of the circuit for rendering the control device of the small burner ineffective and for placing the control device of the large burner in a position to be turned on and off by the closing and opening of the room temperature controlled contacts, and means actuated by the closing of all three shunt portions of the circuit for placing the control devices of both burners in positions to be turned on and off by the closing and opening of the room temperature controlled contacts.

2,168,681
METHOD AND APPARATUS FOR SEPARATING MATERIALS
Brian O'Brien, Rochester, N. Y.
Application January 12, 1935, Serial No. 1,519
20 Claims. (Cl. 209—127)



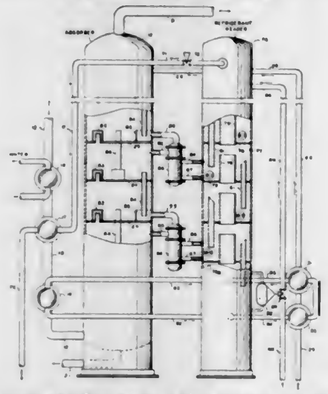
1. The method of separating a mixture of particles having different surface electrification properties, which comprises moving the mixture, in the absence of any substantial external electrostatic field, in intimate wiping contact with a conducting surface which is at a potential sufficiently close to ground to avoid substantial interference with the differential electrification to be produced in the particles, thereby causing differential electrification of the particles primarily in accordance with their surface electrification properties, and then moving the particles while still thus electrified through a high potential electrostatic field to cause separation of the differently electrified particles into different groups.

2,168,682
CLUTCH OPERATING MECHANISM
Willard B. Paine, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application September 23, 1933, Serial No. 690,641
8 Claims. (Cl. 192—.01)



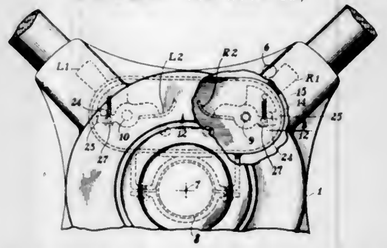
1. In an automotive vehicle provided with driving wheels and further provided with an internal-combustion engine and a throttle therefor, manually operable means for operating the throttle, a clutch, power means for controlling the operation of the clutch, power transmission means interconnecting the clutch and driving wheels, said latter means including a free-wheeling unit, and means, operable in part by said throttle operating means, for selectively controlling the operation of said power means the operation selected depending upon whether or not the free-wheeling unit is operative or inoperative.

2,168,683
ABSORPTION PROCESS
Paul M. Raigorodsky, Tulsa, Okla., assignor to Petroleum Engineering, Inc., Tulsa, Okla.
Application July 1, 1937, Serial No. 151,512
7 Claims. (Cl. 196—8)



1. A process for separating gases which comprises passing gases through successive absorption stages, contacting the gases in an earlier absorption stage with a relatively light absorbent, extracting the heat of absorption from said light absorbent by progressive cooling thereof substantially throughout its passage through said earlier absorption stage, subjecting said light absorbent to an incomplete stripping operation, returning the incompletely stripped absorbent directly to said earlier absorption stage, then connecting the gases in a later absorption stage with a relatively heavy absorbent, completely stripping said heavy absorbent in a separate stripping operation, and returning the completely stripped absorbent directly to said later absorption stage.

2,168,684
VEHICLE AUTOMATIC SIGNAL
Gustaf L. Reenstierna, Union City, N. J., assignor of one-third to Frank Zamorski, Jersey City, N. J., and one-third to James A. O'Donnell, Union City, N. J., and one-third to Albert E. Pennie, Union City, N. J.
Application February 19, 1936, Serial No. 64,681
5 Claims. (Cl. 200—59)



1. In a signal, a vehicle steering wheel having a stud secured thereto and swinging therewith, a switch housing and levers swingingly mounted therein engaging said stud, one of said levers positioned to swing out of engagement with said stud and the other of said levers held in movable relationship to said first lever adapted to engage said stud when moved in the opposite direction and movable out of the position of engagement when said stud moves in the same direction.

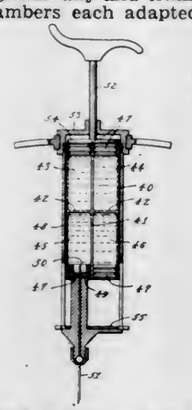
2,168,685
COMPOUNDS OF THE CYCLOPENTANO-HYDROPHENANTHRENE SERIES AND PROCESS OF MAKING SAME
Leopold Ruzicka, Zurich, Switzerland, assignor to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application October 25, 1937, Serial No. 170,958. In Switzerland November 2, 1936
6 Claims. (Cl. 260—397)

1. A process for the manufacture of Δ^5-unsaturated 3-epi-hydroxy-compounds of the cyclopentano-hydrophenanthrene series, comprising reducing the ketonic group of Δ^5-unsaturated 3-keto-compounds of the cyclopentano-hydrophenanthrene series in a neutral medium to a carbinol group.

2,168,686
HYPODERMIC SYRINGE AND CARTRIDGE
Jacob A. Saffir, Chicago, Ill., assignor to Multiple Corporation, Chicago, Ill., a corporation of Illinois
Application November 20, 1934, Serial No. 753,826
Renewed April 13, 1938
1 Claim. (Cl. 128—218)

A cartridge adapted for use in a hypodermic syringe comprising a tubular body having longitudinal and transverse interior walls dividing the

body into longitudinally and transversely spaced individual chambers each adapted to contain a



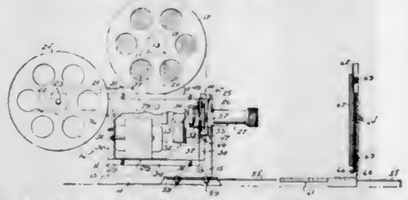
medicament, and a piston closure in the outer end of each chamber.

2,168,687
COLLAR HOLDER
Charles Silverman, Providence, R. I.
Application February 1, 1936, Serial No. 61,899
2 Claims. (Cl. 24—81)



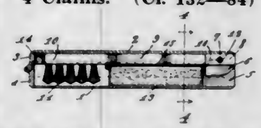
1. In combination, an elongated front member, an elongated rear member, and a connector securing said members at their centers, one of said members comprising two bars aligned with each other and with the other member, one bar having bends at its ends resiliently contacting said front member, and the other bar resiliently pressing against said first bar to retain it in contact with said front member.

2,168,688
ENLARGING APPARATUS FOR MOVIE FILMS
James H. Simms, St. Albans, W. Va.
Application November 15, 1938, Serial No. 240,552
2 Claims. (Cl. 88—24)



1. Apparatus for making enlarged still prints from movie films, comprising the combination of a low candle power lamp, a light condensing lens in front of the lamp, a projection lens in axial alignment with and in front of the condensing lens, a spring closed shutter between both lenses, means for holding the shutter open to time the exposure, a film gate having longitudinal ribs for centering the film accurately with respect to both lenses, said ribs having a transversely cut away portion, a cruciform shaped platen having aligned arms engaged in said cut away portion and having aligned arms extending longitudinally of the gate, a rib on the last named aligned arms adapted to engage a marginal portion of the film and hold the film in flat condition on the gate, hair pin springs carried by the last named arms and tensioned to urge the platen constantly toward the gate, and an easel for supporting sensitized paper adapted to be adjusted toward and away from the projection lens.

2,168,689
DENTAL CLEANING COMPACT
Will O. Smith and Elizabeth E. Smith, Pittsburgh, Pa.
Application August 29, 1938, Serial No. 227,403
4 Claims. (Cl. 132—84)



1. A dental cleaning compact comprising a tubular holder including companion body and cover channel shaped sections hinged together at one end for movement of the cover section in overlapped association with the body section to provide a housing, a brush pivotally secured to the holder for movement into and out of the same, and a dentifrice container shaped to fit the body section and slidably mounted therein for movement into and out of the path of the brush.

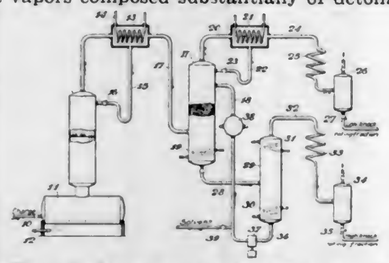
2,168,690
AIR CONTROL DEVICE
William John Uksila, Spokane, Wash.
Application October 28, 1936, Serial No. 108,083
2 Claims. (Cl. 152—416)



1. A device of the character described comprising an air line leading from a source of air under pressure to a pneumatic tire on a vehicle wheel, said line including a check valve and control valve, an air pressure gauge between said check valve and said source, and a by-pass around said check valve and control valve, said by-pass being provided with a control valve.

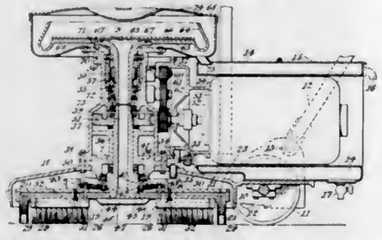
2,168,691
GASOLINE REFINING
Vanderveer Voorhees, Hammond, Ind., assignor to Standard Oil Company, Chicago, Ill., a corporation of Indiana
Application September 8, 1936, Serial No. 99,705
5 Claims. (Cl. 196—13)

1. The process of separating gasoline containing a complex mixture of paraffinic and naphthenic hydrocarbons of wide range in boiling points, into a detonating paraffinic and a non-detonating naphthenic fraction which comprises initially distilling said gasoline through an efficient fractionating zone, removing from said fractionating zone gasoline vapors comprised of hydrocarbons having, at a given time interval, substantially the same boiling points but different chemical characteristics, continuously and immediately introducing said hydrocarbon vapors, without condensation into a second fractionating zone, therein contacting the said vapors with a selective high boiling organic polar liquid and removing from said second fractionating zone gasoline vapors composed substantially of detonating



paraffinic hydrocarbons, and reflux condensate composed substantially of non-detonating naphthenic hydrocarbons associated with said polar liquid, and separating the said non-detonating hydrocarbons from said liquid.

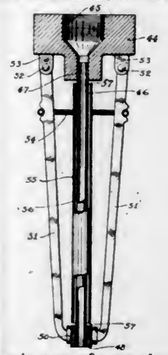
2,168,692
CLEANING APPARATUS
Charles Henry Vidal, London, England
Application August 30, 1937, Serial No. 161,675
In Great Britain September 5, 1936
7 Claims. (Cl. 15—4)



1. A cleaning apparatus comprising a pump having a disc-type rotor adapted to rotate about an upright axis, a centrifuge operatively associated with the outlet of the pump, a reservoir for cleaning liquid in communication with the outlet of the centrifuge, a delivery conduit operatively associated with said reservoir, a disc-type brush mounted to rotate about a vertical axis in alignment with the axis of said rotor, means for directing said liquid from said delivery conduit within the confines of said brush on to the surface to be cleaned, a plurality of suction openings in said brush disposed close to said surface to be cleaned, which brush is mounted on a hollow driving shaft and is provided with passages between said suction openings and the interior of said shaft and which pump rotor is also mounted on a hollow shaft communicating at one end with the inlet of the rotor and at the other end with the brush shaft so as to provide a return conduit for the liquid withdrawn from said surface.

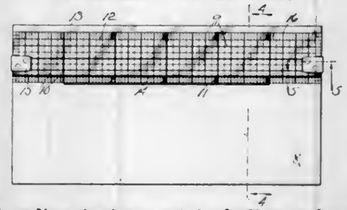
2,168,693
SAUSAGE LINKER
Charles T. Walter, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application February 10, 1937, Serial No. 125,148
8 Claims. (Cl. 17—33)

1. A sausage stuffing nozzle comprising a rotatable tube, a plurality of flat bearing surfaces extended circumferentially of the tube and adjacent the discharge end of said tube and means cooperative with each of said bearing surfaces for establishing frictional resistance between a



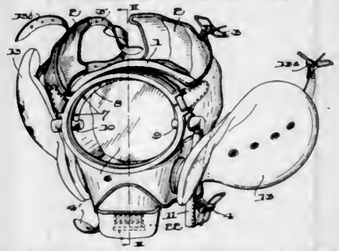
casing and the bearing surfaces during the stuffing operation.

2,168,694
RULING INSTRUMENT
Jennie R. Zachs, Hartford, Conn.
Application June 22, 1937, Serial No. 149,623
4 Claims. (Cl. 33—108)



1. A ruling instrument including a base having a positioning edge extending entirely along its front edge and also having parallel lines ruled thereon, a straight edge of transparent material overlying said base and the ruled surface thereon and adapted to be placed with its outer front edge parallel with the lines on the base, said front edge constituting a ruling edge and means for securing the straight edge in different positions on the base.

2,168,695
DIVING MASK
Kumaki Asari, Ebara-ku, Tokyo, Japan
Application September 27, 1938, Serial No. 231,852
3 Claims. (Cl. 61—70)



1. A diving mask comprising a main body forming a mask to cover the face, a partition dividing said main body into an upper and lower compartment, a transparent glass plate tightly closing the front of the said upper compartment, a perforated air distributing pipe therein serving to spray air under pressure supplied from an air

feed pipe against the surface of the said glass from the perforations of said air distributing pipe, flexible balance bags connected to the sides of the mask so as to communicate with the upper and lower compartments respectively by means of separate passages, a normally closed flap valve controlling the passage communicating with the lower compartment in order to prevent the counter-flow of the gas from the said lower compartment to the balance bags, and a non-return valve disposed at the lower end portion of the mask, which is normally closed but is opened by an increased pressure in the lower compartment.

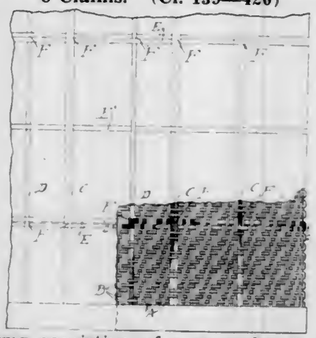
2,168,696

RUG

August Beck, Oshkosh, Wis., assignor to Waite Carpet Company; Oshkosh, Wis., a corporation of Wisconsin

Application November 5, 1938, Serial No. 239,124

8 Claims. (Cl. 139—420)



1. A rug consisting of a groundwork of warp and woof strands of fiber dyed with relatively impermanent dyes, and sisal warp and woof strands dyed in part with relatively permanent dyes, said sisal strands being interspersed at relatively widely spaced intervals among the fiber strands and compacted and held in anchored relation to one another at the points of intersection of the sisal warp and woof strands, the areas of intersection being of such limited extent as to prevent warping due to displacement of the sisal strands.

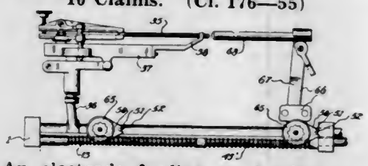
2,168,697

ELECTRODE FEEDING MECHANISM

Karl Brenkert, Detroit, Mich., assignor to Brenkert Light Projection Company, Detroit, Mich., a corporation of Michigan

Original application July 5, 1938, Serial No. 217,385. Divided and this application January 21, 1939, Serial No. 252,148

10 Claims. (Cl. 176—55)



1. An electrode feeding mechanism comprising a rotary feed screw, a guided electrode carriage, a shaft journaled in said carriage, a pinion fixed to said shaft and meshing with said screw, a non-rotatable member movable with said carriage, a clutch member secured to turn with said shaft and frictionally engaging said non-rotatable member with sufficient pressure to prevent rotation of said shaft and pinion during rotation of said screw, said shaft with the pinion and clutch member being manually rotatable in opposition to said frictional engagement to roll said pinion on said screw.

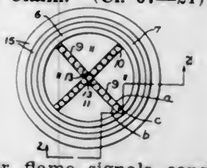
2,168,698

DEVICE FOR FLAME SIGNALS

Alfred P. Bunt and Thomas G. Hitt, Seattle, Wash.; said Bunt assignor to said Hitt

Application June 29, 1937, Serial No. 150,957

1 Claim. (Cl. 67—21)



A device for flame signals consisting in an outer casing of an easily fusible material, a central wick member formed of two portions crossed at right angles to each other and contacting opposing portions of the outer casing and a solidified combustible filling material within the casing and surrounding and supporting the wick member, whereby the combustible filling material is divided into a plurality of burning areas protected from being extinguished by said wick member.

2,168,699

MANUFACTURE OF OXIDIZED PETROLEUM ACID COMPOUNDS

Robert E. Burk, Cleveland, Ohio, assignor to The Standard Oil Company, Cleveland, Ohio, a corporation of Ohio

Application December 12, 1936, Serial No. 115,648

5 Claims. (Cl. 260—451)

1. In a process of making an oxidized petroleum acid compound, heating to about 305° F. a petroleum fraction of 300–390° F. B. P., blowing air therein at about 80 lbs. pressure and about 20 cu. ft. per hour per gal., controlling the temperature at 310–330° F., and maintaining the acid number in the reaction mass at not exceeding about 25, while continuously introducing fresh petroleum below and drawing off liquid above.

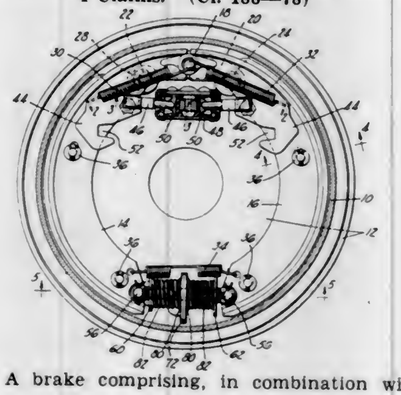
2,168,700

BRAKE

Richard T. Burnett, Mishawaka, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana

Application June 5, 1937, Serial No. 146,568

4 Claims. (Cl. 188—78)



1. A brake comprising, in combination with

applying and anchorage means, a backing plate, shoes having an adjustable connection including alined thrust members engaging the shoe ends and threaded into opposite ends of a connecting sleeve, said sleeve having a central external peripheral rib and end abutments, a member adjustably mounted on the backing plate and having a part encircling said rib when the brake is released, washer members normally seated against opposite sides of said rib and said encircling part, and coil springs coaxially encircling the ends of said sleeve and each arranged between one of said abutments and the coresponding washer member, one of said abutments being non-rotatably mounted on the sleeve and being accessible through the backing plate for turning said sleeve to adjust the brake.

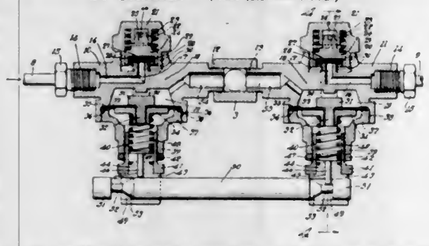
2,168,701

AUTOMATIC THROW-OVER

William C. Buttner, Winnetka, Ill., assignor to The Bastian-Blessing Co., Chicago, Ill., a corporation of Illinois

Application December 30, 1937, Serial No. 182,426

17 Claims. (Cl. 221—73.5)



1. In a fluid supply system, having a plurality of tanks, a control assembly, means for connecting each of said tanks to said assembly, a plurality of valves positioned in said assembly, one for each of said tanks, a plurality of diaphragms one connected to each of said valves, yielding compression means for each of said valves, tending to open it and adjusting parts for varying the compression of each of said yielding means, and a single unitary valve controlling member effective upon said adjusting parts to vary the compression of said yielding compression means, said controlling member mounted for limited movement and provided with cam portions, so positioned that said adjusting parts are acted upon oppositely to each other.

2,168,702

CARCASS TONGUE PROTECTOR

Nicholas J. Dziedzic, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Original application November 21, 1936, Serial No. 112,133. Divided and this application April 10, 1937, Serial No. 136,199

5 Claims. (Cl. 17—1)



1. A tongue protector comprising enveloping means and a spring tensioned spreader adapted for placement within the mouth of a carcass to prevent mutilation of the tongue.

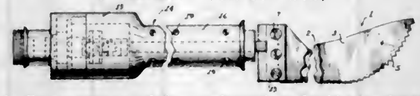
2,168,703

SKINNING KNIFE

Nicholas J. Dziedzic and Frank B. Bratek, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware

Application June 10, 1936, Serial No. 84,409

5 Claims. (Cl. 30—272)



1. In a power-driven skinning knife including a pair of knife blades, means slidably mounting the knife blades in parallel abutting relationship comprising a casing provided at one end with a relatively large recess providing a drive chamber, a longitudinal bore extending from said recess through said casing, and a pair of connecting rods slidably mounted through said bore and projecting forwardly of said casing, each of said connecting rods being rigidly secured to one of said knife blades, and means including a cam member rotatably mounted in said drive chamber and operatively connected directly with said connecting rods to reciprocate said connecting rods and knife blades in a relatively opposite movement.

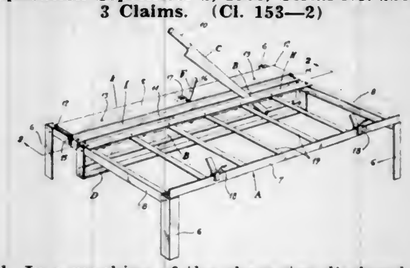
2,168,704

METAL CUTTING AND FORMING MACHINE

Thomas Henry Forshey, Monrovia, Calif.

Application September 2, 1938, Serial No. 228,152

3 Claims. (Cl. 153—2)



1. In a machine of the character disclosed, an elongated fixed cutter member, a guide member adjacent thereto, and a swinging and traveling cutter member having a fulcrum between said fixed cutter member and said guide member and permitting cooperation of said cutter members and travel of the swinging cutter member with respect to the other cutter member.

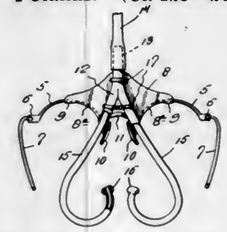
2,168,705

NASAL INHALER

Charles Henry Francisco, William Francisco, and Leonard Brown, San Francisco, Calif.

Application October 29, 1938, Serial No. 237,708

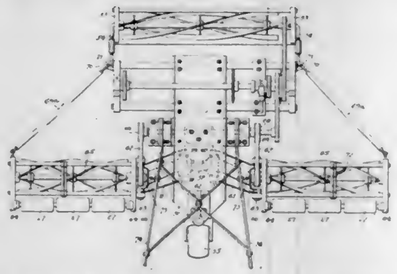
4 Claims. (Cl. 128—206)



3. A nasal inhaler comprising a supporting

frame in the general form of a spectacle frame and including a pair of spaced upwardly arched strips of resilient metal arranged to occupy a position over the eyes of the patient, a vertical plate rigidly connecting the inner end portions of said strips, temples pivoted to the outer ends of said strips, an inverted Y-fitting rigidly secured to the front face of said plate to provide an upwardly projecting inlet and downwardly diverging outlets, and nasal tubes connected with said outlets and depending from the latter in downwardly diverging relation, the lower ends of said nasal tubes being directed inwardly and upwardly in position to enter the patient's nostrils.

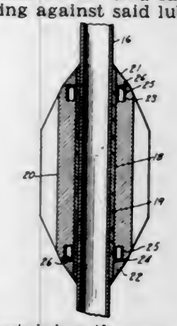
2,168,706
LAWN MOWER
Edwin S. George, Bloomfield Hills, and Harold L. Blydenburgh, Highland Park, Mich., assignors to The Moto-Mower Company, Detroit, Mich., a corporation of Michigan
Application June 13, 1938, Serial No. 213,380
17 Claims. (Cl. 56—7)



17. In a lawn mower having a main mower unit and a supporting frame therefor, a plurality of auxiliary mower units operable for being employed with and extending laterally from the main mower unit, a supporting member for said auxiliary units and pivotally supported by the frame for movement about a transverse, horizontal axis, a coupling for each of said auxiliary units and supported by said supporting member for individual movement about a vertical axis, a link for each of said auxiliary units and being supported at one end by one of said couplings for movement about a longitudinal, horizontal axis and having supported at its other end the auxiliary unit for movement about a longitudinal, horizontal axis, and means for holding said auxiliary units in fixed position with respect to movement about their longitudinal, horizontal connections with said links.

2,168,707
WELL DRILLING APPARATUS
Albert A. Haldeman, Mutual, Okla., assignor of one-half to Ralph E. Gilchrist, Wichita, Kans.
Original application March 28, 1936, Serial No. 71,472. Divided and this application January 28, 1937, Serial No. 122,779
5 Claims. (Cl. 308—4)

1. In a well drilling apparatus, a well drill string section, and a guide structure therefor including a member sleeved thereon provided with grooves, a sleeve disposed about said member, means for holding the sleeve on said member, means in said sleeve communicating with said grooves for receiving a lubricant, and lubricant retaining means within said lubricant receiving means, and means within said lubricant receiving means bearing against said lubricant retaining means for retaining the same snugly about said member.

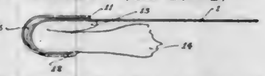


2,168,708
CARCASS TONGUE PROTECTOR
Andrew S. Hartanov, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application March 31, 1937, Serial No. 134,169
4 Claims. (Cl. 17—1)



2. A tongue protector adapted to contract when pressure is applied thereto thereby changing its normal shape and which will readily assume its normal shape upon release of pressure thereon and means for holding the protector in functional relation with the tongue of a carcass.

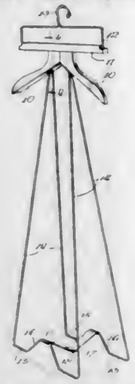
2,168,709
TONGUE PROTECTOR
Andrew S. Hartanov and Carl L. Lohner, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Original application March 29, 1937, Serial No. 133,728. Divided and this application January 31, 1938, Serial No. 188,002
10 Claims. (Cl. 17—1)



1. Means for protecting the tongue of an animal carcass during dehairing of the carcass comprising a guard means adapted to clamp the upper and lower folds of the folded tongue tip of the animal carcass, the guard means being provided with means for engaging the frenum linguae.

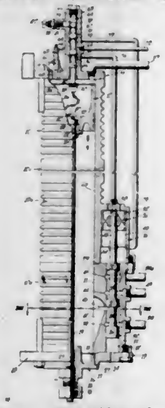
2,168,710
LEG-SUPPORTED STRUCTURE
Jonas F. Johnson, Chicago, Ill., assignor, by direct and mesne assignments, to Joseph A. Anderson, trustee, Chicago, Ill.
Application July 21, 1937, Serial No. 154,695
1 Claim. (Cl. 248—171)

A stand comprising a pair of leg members having their upper ends in close proximity and so connected to an associated structure that the lower ends of said legs may assume separated load-supporting positions and swing together when suspended from above; each of said legs being formed of wire conformed to provide a pair of spaced apart side members and a reach member which extends between the side members and comprises a link-engaging portion lying somewhat above the lower extremities of the side members; and a pair of links having hingedly connected ends, the other ends of such links be-



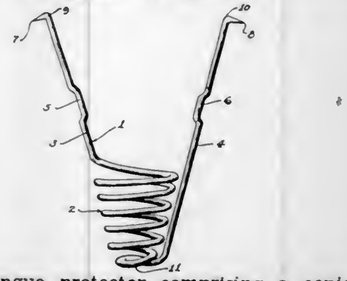
ing pivotally connected with the link engaging portions of the reach members; the hingedly connected ends of such links hanging below the lower extremities of the legs when the legs swing together upon being suspended from above.

2,168,711
FLUID ACTUATED POWER APPARATUS
Samuel Clyde Kyle, San Francisco, Calif., assignor to Mary G. Mulvany
Application February 1, 1938, Serial No. 188,092
10 Claims. (Cl. 121—157)



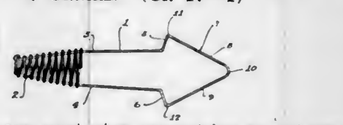
1. In a fluid power operating device for pumps, a main cylinder, a main piston mounted for movement within said cylinder and adapted to be connected to the pump, fluid power control valve means for controlling the supply of fluid power to said main cylinder to cause said main piston to reciprocate within said cylinder, means for moving said control valve to its various control positions including an auxiliary cylinder, a piston therein coupled to said control valve, means for supplying compressed air to said auxiliary cylinder, and a pneumatic control valve for controlling the supply of compressed air to said auxiliary cylinder, and means coupling said pneumatic control valve to said main piston for actuation thereby during the final portions of the movement of said main piston as it approaches the end of its stroke.

2,168,712
TONGUE PROTECTOR
Carl L. Lohner and Harry H. McKee, Chicago, Ill., assignors to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application March 29, 1937, Serial No. 133,725
3 Claims. (Cl. 17—1)



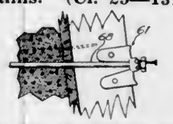
2. A tongue protector comprising a conical guard means and tensionable arms adapted to be inserted within the mouth of an animal carcass to secure the guard means within the mouth of the carcass.

2,168,713
TONGUE PROTECTOR
Harry H. McKee, Chicago, Ill., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application March 29, 1937, Serial No. 133,726
7 Claims. (Cl. 17—1)



1. A tongue protector comprising guard means for the tongue and a locking head providing relatively oppositely disposed securing means.

2,168,714
FORM CLAMP
Herman P. Neptune, Los Angeles, Calif.
Application September 7, 1937, Serial No. 162,571
4 Claims. (Cl. 25—131)

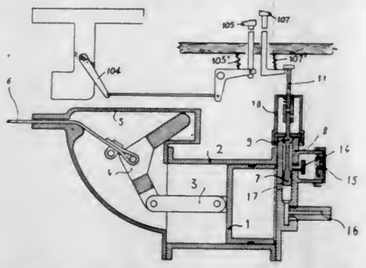


1. A tie rod clamp including two flanges at approximately right angles, a swivel nut and socket located at the junction of the flanges and facing edgewise of one of the flanges which is formed with a slot flaring from the nut to the end of the flange, a tie rod being threaded in the nut and lying lengthwise of the flared slot.

2,168,715
SERVO-CLUTCH
Pierre Felix Peyruqueou, Mont-de-Marsan, France, assignor to Societe Anonyme des Freins Bendix, Clichy, Seine, France, a société of France
Application February 15, 1930, Serial No. 428,783
In France February 22, 1929
10 Claims. (Cl. 192—.01)

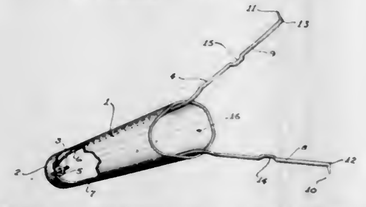
1. In a power operated clutch actuating ap-

paratus for motor cars and like uses, comprising a movable clutch controlling member, fluid pressure power mechanism for actuating said member, valve mechanism controlling said fluid pressure, and a pedal having an operative connection to the throttle controlling device of the car motor,



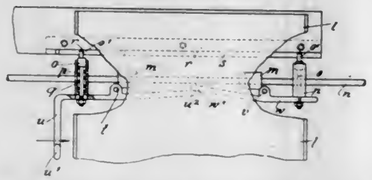
the combination, with said above-described apparatus, of means automatically actuated synchronously with said clutch controlling member for operating said valve mechanism to arrest the movement of said member whenever the movement of said throttle controlling pedal is arrested.

2,168,716
TONGUE PROTECTOR
Harry Arthur Reece, South St. Joseph, Mo., assignor to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application April 2, 1937, Serial No. 134,599
4 Claims. (Cl. 17—1)



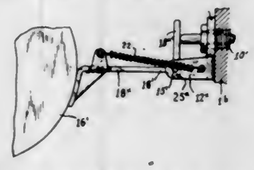
1. A tongue protector comprising a sheath and resilient arms for holding the sheath in position in the mouth of a carcass.

2.168,717
STOP DEVICE FOR MOVABLE PARTS ON ROTARY REPRINTING MACHINES
Wilhelm Ritzerfeld, Berlin, Germany
Application August 26, 1938, Serial No. 226,857
In Germany August 28, 1937
4 Claims. (Cl. 101—132.5)



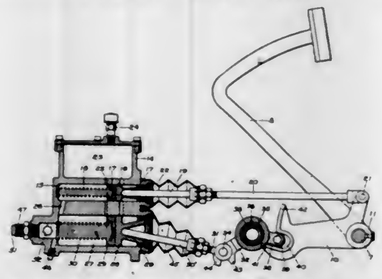
1. In a duplicating machine having a rotatable printing roller bearing copyable mirror-script original and at least one axially displaceable element for printing selected portions of said original onto clear sheets previously moistened with a readily volatilizing solvent, a rod for slidably supporting said displaceable element, and fixing means for fixing said axially displaceable element in a plurality of predetermined positions, said fixing means comprising a rail having a plurality of holes therein, a plurality of spring-held stop pins associated with said elements each adapted to engage one of said holes, and a manually operable lever mechanism for simultaneously withdrawing said pins from said holes.

2,168,718
CARBURETOR FLOAT VALVE
Arthur J. Scaife, Ardmore, Pa.
Application July 15, 1937, Serial No. 153,707
3 Claims. (Cl. 137—104)



2. A carburetor comprising a housing having a float chamber for liquid fuel, a fuel inlet valve having a movable valve element, an arm, means for pivotally supporting said arm within said housing, a float attached to said arm and adapted to swing the latter about its pivot upon rise and fall of the fuel level in said chamber, said movable valve element being operatively associated with said arm in such a manner that in normal operation said movable valve element always moves in direct relation to the movement of said float, means for limiting the movement of said arm about its pivot in a direction to open said valve, and spring tension means of substantially uniform tension throughout the range of movement of said arm connected to said arm at one side of its pivot and to said housing at the other side of said pivot and normally always tending to move said arm in a direction to raise said float whereby movement of said float due to surging of the fuel in said chamber is prevented.

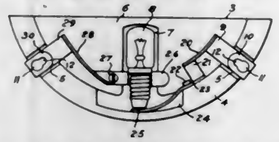
2,168,719
MEANS FOR OBTAINING AND CONTROLLING FLUID PRESSURE
Edwin G. Staude, Minneapolis, Minn., assignor of one-half to Olive Bertha Staude, Minneapolis, Minn.
Application October 16, 1937, Serial No. 169,501
6 Claims. (Cl. 60—54.6)



1. A manually operated fluid pressure actuator for hydraulic brakes comprising fluid displacing cylinders, a piston for each cylinder, and means for operating the pistons for limiting the displacement action of one, while continuing displacement action of the other, said means in-

cluding a rock shaft having a bell crank lever thereon, a thrust member by which one arm of the bell crank operates one of the cylinders, and a break-joint thrust connection operated by the other arm of the bell crank.

2,168,720
ILLUMINATING INSTRUMENT DIAL
Ray L. Triplett, Bluffton, Ohio
Application March 9, 1937, Serial No. 129,873
6 Claims. (Cl. 73—151)



1. In an electrical instrument, an instrument having a dial and a central casing with a laterally projecting rim portion, spaced studs mounted on said laterally projecting portion externally of said instrument casing, a shield having illuminating means mounted on the interior thereof, yielding means on said shield operable from the exterior thereof adapted to be detachably mounted on said studs, and an electrical dial illuminator attached to said shield and electrically connected to said yielding means for receiving electricity therethrough from said studs, said studs being arranged for connection with a source of electrical energy.

3. In combination, an instrument, a detachably mounted shield thereon, and means for detachably mounting said shield comprising studs on said instrument having an enlarged head and bayonet slots in the ends of yielding fingers on said shield for passing over the heads of said studs and engaging the studs behind said head through said bayonet slots.

2,168,721
BOLT FASTENING DEVICE AND THE LIKE
George A. Tinnerman, Rocky River, Ohio, assignor to Albert H. Tinnerman, Cleveland, Ohio
Application April 15, 1939, Serial No. 268,085
14 Claims. (Cl. 85—32)

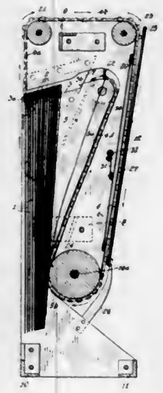


1. A fastener comprising a sheet metal body provided with bolt or screw thread engaging means and means for attaching the fastener in position on a supporting structure preparatory to the application of a bolt or screw thereto, said means for attaching the fastener comprising a substantial finger projecting to the underside of said fastener body in the form of a shoulder and a lug holding element spaced from said fastener body, said finger being receivable in an assembling opening in said supporting structure with said shoulder in abutting engagement with a side-wall of said opening and said lug holding element frictionally and grippingly engaging said supporting structure on the side opposite to that on which the fastener body is disposed in the final applied position of the fastener thereon, and a locking detent on said fastener body also projecting to the underside thereof in spaced relation to said shoulder of the attaching finger adapted to lock the fastener in such applied position on the supporting structure.

2,168,722
PROCESS FOR THE PRODUCTION OF PREDIGESTED VEGETABLE FOODSTUFF FOR ANIMALS
Charles Samuel Townsend, Ealing, England, assignor to Wellesley Holdings Limited, London, England, a British company
No Drawing. Application August 3, 1937, Serial No. 157,220. In Great Britain August 10, 1936
3 Claims. (Cl. 99—9)

1. Process for producing a pre-digested animal foodstuff consisting in mixing together fish offal and seaweed and converting the same into a predigested, de-hydrated and aseptic product by subjecting the mixture to the action of thermophilic aerobic bacteria until fermentation has been completed.

2,168,723
ADVERTISING DISPLAY MECHANISM
Thomas Veitch, Allenhurst, N. J.
Application December 9, 1937, Serial No. 178,837
11 Claims. (Cl. 40—36)

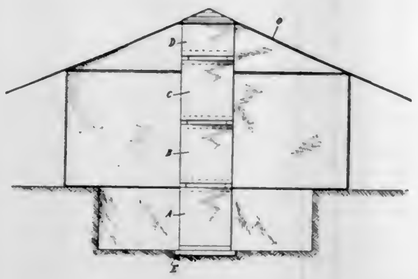


1. In a poster display mechanism, the combination with a framework composed of side pieces each comprising a forward lower section and an upper rear section spaced apart to form a guideway between their upper and lower edges and between their rear and front edges respectively, and connections between the respective sections of a poster rail carried at its ends on the top of the lower section, a continuously movable carrier mounted on the side pieces and following the paths of the guides and pick-up members on the carriers for engaging said rail and causing it to traverse the guides.

2,168,724
FOOD PRODUCT AND PROCESS OF PRODUCING THE SAME
Paul A. Watson, Pasadena, Calif.
No Drawing. Application January 14, 1937, Serial No. 120,619
7 Claims. (Cl. 99—9)

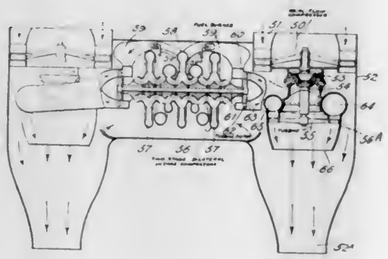
1. A liquid animal food comprising the reaction product of buttermilk, middlings and malted barley, a substantial portion of the lactose of the buttermilk having been hydrolyzed to form monosaccharides, and a substantial portion of the starch of the middlings having been converted to sugar by the action of the enzymes of the malted barley.

2,168,725
BUILDING CONSTRUCTION
John J. Whelan, Washington, D. C.
Application September 6, 1932, Serial No. 631,927
Renewed October 7, 1938
5 Claims. (Cl. 72—1)



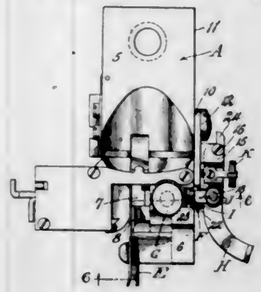
1. In a housing construction, in combination, a prefabricated unitary construction comprising a plurality of units, each constituting a separate service room, means for superimposing said units upon each other to form a rigid shaft, said means comprising collars associated with the upper and lower ends of each of said units, means to separate said collars, and means rigidly tying said collars together whereby to integrate them to form a rigid shaft, each of said units containing mechanical equipment for a given room of the house associated therewith.

2,168,726
PROPULSION OF AIRCRAFT AND GAS TURBINES
Frank Whittle, Trumpington, England
Application February 27, 1937, Serial No. 128,167
In Great Britain March 4, 1936
6 Claims. (Cl. 60—35.6)



1. A gaseous jet reaction propelling unit for aircraft, comprising an air duct with an entry opening to face the direction of travel, an axial flow compressor therein, a centrifugal compressor supplied with part of the flow therefrom, a fuel burning device in the output of the centrifugal compressor, a turbine driving the centrifugal compressor and operated by the flow from said centrifugal compressor and burning device, a second turbine driving the axial flow compressor and operated by the exhaust gases from the first turbine, an exhaust passage from the second turbine into the duct behind the axial flow compressor, and an outlet orifice for the duct facing oppositely to the entry.

2,168,727
BLIND STITCH SEWING MACHINE
Louis G. Bowman, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine
Application April 29, 1937, Serial No. 139,809
20 Claims. (Cl. 112—176)



1. In a blind stitch sewing machine, the combination with a stationary presser foot having an opening, of a reciprocatory needle operating above said opening, a vertically yieldable ridge forming element located below said opening for projecting a ridge of fabric upwardly into needle penetrating position, a vertically movable crown mounted on the foot to limit the upward movement of the ridge forming element, a stop mounted on the foot to limit the upward movement of the crown, and a manually operable interponent supported on the foot and movable to a position between the stop and the crown to depress the latter and thereby reduce the depth of needle penetration in the fabric.

2,168,728
TONGUE PROTECTOR AND EXTRACTOR THEREFOR
Edward Richard Bursick, Omaha, Nebr., assignor, by mesne assignments, to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application December 30, 1935, Serial No. 56,631
15 Claims. (Cl. 17—1)



13. An animal carcass tongue protector adapted to envelop the tongue and shaped such that when secured wholly within the mouth of the carcass the jaws of the carcass may be completely closed.

2,168,729
SAND PUMP
Paul Cavins, Long Beach, Calif.
Application August 19, 1937, Serial No. 159,947
7 Claims. (Cl. 166—19)

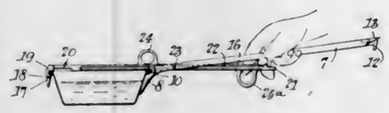
1. A sand pump comprising a barrel adapted to be lowered into a well to take a charge therefrom and to remove the charge from the well, said barrel having a charge-taking port in the side wall of the barrel adjacent the lower end thereof, a charge-retaining valve above said inlet, a piston

operating downwardly and upwardly in said barrel to draw by suction a charge into the barrel through said inlet, operating means for moving said piston in said barrel including a member on which said piston is mounted, said piston comprising a pair of sections, and means for mounting said piston on said member whereby said sections assume a substantially tandem re-



lation with respect to one another when the piston is moving downwardly in the barrel to permit well fluid to flow past the same, and a substantially side-by-side relation with respect to one another when the piston is moving upwardly in the barrel to form a seal with the wall of the barrel to draw a charge through said inlet past said charge retaining valve.

2,168,730
POT OR PAN LIFTING IMPLEMENT
Ralph Cicchiello, Waterbury, Conn.
Application October 4, 1938, Serial No. 233,278
6 Claims. (Cl. 294—3)



1. A pot lifter including a pair of elongated slidably and pivotally mounted handle members, the first having a longitudinal vertical slot and the second having a longitudinal transverse slot, said second member being receivable throughout the major part of its length wholly within the vertical slot of the first member and having pivot means engageable in and movable in said transverse slot, and opposed pot engaging means carried by said members, said opposed engaging members being so shaped and said handle members being of such length that pots can be effectively gripped at one or both sides.

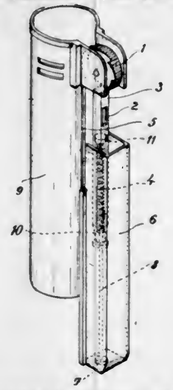
3. A pot lifter including external and internal handle members, means slidably and pivotally mounting said internal member on said external member, and pot gripping means carried by said handle members, said external member being slotted at the end remote from its gripping means for providing a narrow laterally extended longitudinally projected lid lifter prong.

2,168,731
ANIMAL-CARCASS TONGUE PROTECTOR
Leo J. Cook, Chicago, Ill., assignor, by mesne assignments, to Industrial Patents Corporation, Chicago, Ill., a corporation of Delaware
Application February 29, 1936, Serial No. 66,384
18 Claims. (Cl. 17—1)



18. In a tongue protector, an enveloping tongue guard and means for holding the guard in the mouth of a carcass.

2,168,732
FRICTION-WHEEL PYROPHORIC LIGHTER
Arthur Dubsky, Vienna, Austria
Application September 7, 1937, Serial No. 162,750
In Austria September 17, 1936
4 Claims. (Cl. 67—7.1)

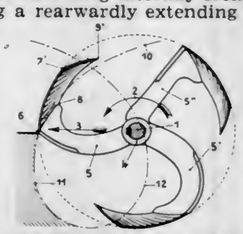


4. In a pyrophoric lighter of the type having a main casing, a friction wheel mounted to one side and adjacent the top of the main casing, a secondary flint receiving casing fixed longitudinally to the main casing beneath the friction wheel and provided in one wall with an aperture to permit of the insertion of a fresh flint, fixed guide ribs positioned longitudinally of the main casing on opposite sides of the secondary casing, a shell having longitudinal guideways slidably engaging the ribs and surrounding the secondary casing with clearance and when in normal position partly enclosing the friction wheel, and a resilient connection between the secondary casing and the shell for yieldingly holding the parts in normal position and permitting of the separation of the parts to expose the flint aperture when it is desired to insert a fresh flint, said resilient connection acting as a follower to yieldingly hold the flint in yielding engagement with the wheel.

2,168,733
MOTOR CULTIVATING MACHINE
Léon Dufour, Geneva, Switzerland
Application February 5, 1938, Serial No. 189,003
In Germany February 10, 1937
12 Claims. (Cl. 97—212)

12. A tool for motor cultivating machines in-

cluding a horizontal shaft arranged parallel to the axis of the driving wheels of said machine, said tool including a support secured to said shaft and a blade extending laterally from the support and having a rearwardly extending arcuate cut-

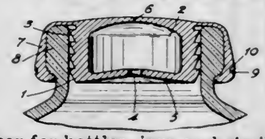


ting edge, said blade being twisted transversely from its cutting edge in an inward direction so that every part of the blade behind its cutting edge passes through the cut made by its cutting edge during approximately the first 90° of its movement through the soil.

2,168,734

STOPPER FOR BOTTLES, JARS, AND SIMILAR CONTAINERS

William Simon Freeman, Leeds, England
Application February 1, 1938, Serial No. 188,179
In Great Britain February 10, 1937
1 Claim. (Cl. 215—52)



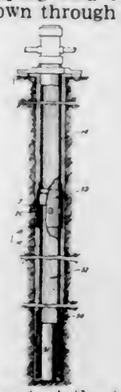
A stopper for bottles, jars and similar containers comprising a resilient body adapted to be squeezed into the mouth of the container, said body having a cavity and formed at its lower edge with an integral annular bracing wall extending inwardly from the edge of the cavity to a point short of the center of the body to form an internal gas pressure chamber whereby the presence of gas under pressure in said chamber will expand the side wall of the body between the top and bottom limits of the cavities into firm engagement with the inner side of the neck of the container, and a flexible annular elastic skirt formed with the upper edge of the body of the stopper and adapted to be stretched downwardly into embracing relation with the external mouth portion of the container.

2,168,735

METHOD OF CEMENTING WELLS

Frank M. Gilstrap, Barranca Bermeja, Colombia, and Fred W. Baurmann, Buena Park, Calif., assignors, by mesne assignments, to Erd V. Crowell, Huntington Park, Calif.
Continuation of application Serial No. 563,568, September 18, 1931. This application August 27, 1935, Serial No. 38,038
23 Claims. (Cl. 166—21)

1. The method of cementing casing in a well that includes, lowering into the well a string of casing having a normally closed cement discharge port intermediate its upper and lower ends, introducing and pumping a first volume of cement and a following fluid column directly into and downwardly within the casing past said port, discharging said cement from the casing into the well bore at a substantial distance below said port by the pressure of the fluid column above it, then opening the port, introducing a second and separate volume of cement above the fluid column, and pumping said column and second cement volume down through and from the cas-



ing through said port at the top of a portion of said fluid column remaining in the casing below the port, and into the same bore that said first volume of cement is discharged into.

2,168,736

STRING INSTRUMENT

Clifton E. Jones, Chicago, Ill.
Application February 16, 1938, Serial No. 190,844
3 Claims. (Cl. 84—173)



1. An instrument of the class described comprising a handle, a tuning mechanism in one end thereof, the other end of said handle being recessed, a cylindrical shaped sound box including a head having a portion of its periphery received in said recess, a strap encircling said sound box and having its free end removably secured to said handle for removably securing the sound box thereto, the head of said sound box having a pair of spaced apertures therein and an upstanding bridge secured to said head between said apertures, a tail piece secured to the outer portion of said sound box in line with the tuning mechanism and said bridge, and a string disposed over said bridge having one end secured to the tuning mechanism and the other end thereof to said tail piece.

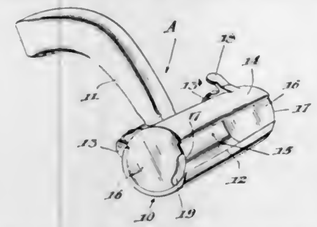
2,168,737

DEVICE FOR DISPENSING ICE CREAM

Alexander S. Mackey, Clearview, Ontario, Canada
Application October 10, 1938, Serial No. 234,282
13 Claims. (Cl. 107—48)

1. A device for dispensing ice cream and like

material in the form of rolls or columns comprising a forming member, and a handle for manipulating said member, the latter including a chamber for receiving and shaping the material defined by a suitably shaped elongated portion rigidly connected with the handle and a similarly shaped movable portion in the form of a gate member, said portions having free edges spaced apart from one another to form an open-

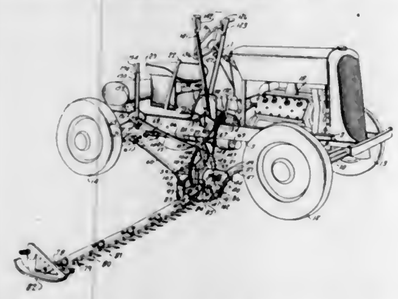


ing permitting ingress of the material to the chamber, one of said edges being a cutting edge designed to loosen the material and cause it to enter the chamber of the forming member when the latter is moved across the surface of a body of the material and means in connection with said gate member, operable by a digit of the hand holding the handle, for moving said gate member away from the formed material to permit the discharge of the latter.

2,168,738

MOWING MACHINE

Charles L. Meinholdt, Topeka, Kans., assignor of one-fourth to Fred P. Martin and one-fourth to Charles H. Martin, both of Topeka, Kans.
Application June 17, 1936, Serial No. 85,724
7 Claims. (Cl. 56—25)

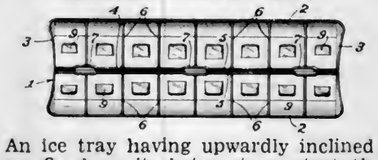


1. In an apparatus of the character described including a mobile frame, a trunnion member, means mounted substantially in the horizontal plane of said frame for supporting the trunnion member for swinging movement in a vertical plane relatively to said frame, an inner sickle shoe mounted on the trunnion member, a drive shaft rotatably mounted in the trunnion member in the axis thereof, a crank on the drive shaft, a sickle carried by said shoe including a sickle bar, a pitman connecting the crank with the sickle bar, a quadrant fixed to the shoe, a cable engaged with the quadrant, means on the frame substantially in the horizontal plane thereof and connected with the cable to pivot the sickle on said trunnion member, and means mounted substantially in the horizontal plane of the frame for raising and lowering the trunnion member independently of said sickle pivoting means.

2,168,739

ICE TRAY

James H. Miner, Meridian, Miss.
Application June 10, 1936, Serial No. 84,579
11 Claims. (Cl. 62—108.5)

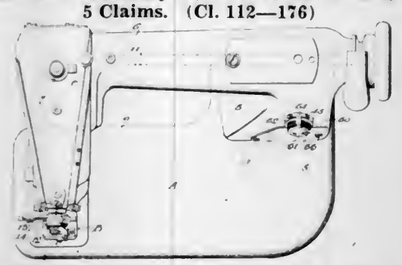


1. An ice tray having upwardly inclined projections fixed on its botom to contact the ice, means for dividing the ice into blocks, and means for urging the ice blocks in relation to the stationary inclined projections to ride up the inclines of said projections.

2,168,740

SEWING MACHINE

Charles W. Mueller, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine
Application January 29, 1937, Serial No. 123,059
5 Claims. (Cl. 112—176)



2. In a blind stitch sewing machine, the combination with a main frame comprising a standard having an upper arm extending laterally therefrom and terminating in a forwardly extending arm, and a base arm extending forwardly from the standard and cooperating with the latter to support the frame and terminating in a laterally extending arm arranged in front of and in parallelism with the laterally extending upper arm, the free end of the base arm being disposed substantially under the free end of the upper arm, of a horizontal presser foot fixed to the free end of the upper arm, a main shaft journaled in the standard, a stitch forming mechanism including a horizontally reciprocatory needle mounted on the free end of the upper arm above the foot and having driving connections with the main shaft, a post mounted on the free end of the base arm directly below the foot, a movable ridge forming element mounted on the post for projecting a ridge of material upwardly through the foot into needle penetrating position, and driving connections between the ridge forming element and the main shaft and extending along the base arm and into the standard.

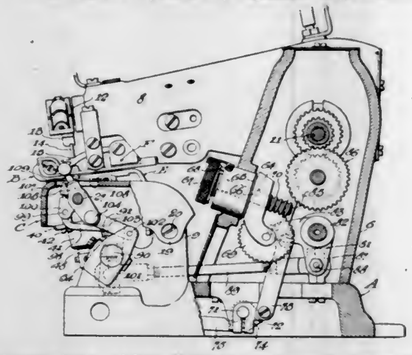
2,168,741

BLIND STITCH SEWING MACHINE

Charles W. Mueller, St. Louis, Mo., assignor to Lewis Invisible Stitch Machine Company, St. Louis, Mo., a corporation of Maine
Application July 26, 1937, Serial No. 155,788
12 Claims. (Cl. 112—176)

1. In a blind stitch sewing machine, the combination with a main frame including a base and a forwardly extending arm disposed in a plane

above the base, of a main shaft journaled in the frame, a presser foot fixed to the front end of the arm and provided with an opening, a stitch forming mechanism mounted on the arm and including a needle mounted for reciprocations above the foot and across the opening therein, a work support mounted on the base to swing upwardly and downwardly relative to the foot and about a horizontal axis located in rear of the needle, means for normally retaining the work support yieldably against depression, a



reciprocatory ridge forming element operating in the presser foot opening for projecting a ridge of fabric upwardly into needle penetrating position and movable upwardly and downwardly with said work support, an oscillatory shaft journaled on the work support and disposed in parallelism with the axis thereof and operatively connected to said element, and driving connections between the main and oscillatory shafts for operating the latter and including devices for retaining the oscillatory shaft against angular movement upon depression of the work support.

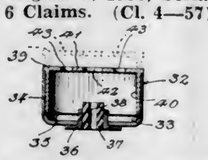
2,168,742

ADJUSTABLE FLUSH REGULATOR

Felix O'Neill and George Lawson Robertson, Philadelphia, Pa., assignors to National Hydrolator Company, Inc., Philadelphia, Pa.

Application August 5, 1938, Serial No. 223,313

6 Claims. (Cl. 4—57)



1. A flush valve regulator comprising in combination a tank having a flush outlet, a valve therefor including a stem, means for raising the stem and associated valve and counterweight means on the stem comprising a chamber on the stem in communication with water in the tank for seating the valve at a predetermined level of liquid in the tank.

2,168,743

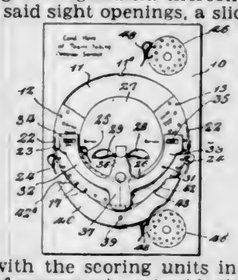
TENNIS SCORING DEVICE

Ralph Herbert Paul, Cremorne, Sydney, New South Wales, Australia

Application March 23, 1938, Serial No. 197,723

10 Claims. (Cl. 235—115)

1. A tennis scoring device comprising a face plate provided with sight openings, point scoring units movably mounted beneath the face plate and having scoring indicia thereon for display at certain of said sight openings, a slide member co-



operable with the scoring units in their various positions of movement, and said slide having windows for registry with the sight openings.

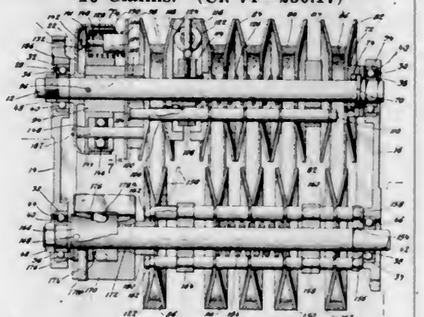
2,168,744

VARIABLE SPEED DRIVE

Lester E. Perrine, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 11, 1936, Serial No. 68,153

16 Claims. (Cl. 74—230.17)



14. In variable speed controls for vehicles, in combination, a power input shaft, an output shaft connected to a load, a plurality of variable speed transmission units communicating the power of said input shaft to said load, a device responsive to input torque, a second device responsive to output torque, a third device responsive to input speed, ratio shifting means for certain of said units, and connecting means operative upon said means to combine the responses of all of said devices to yield automatic shifting of speed ratio between said input and output shafts.

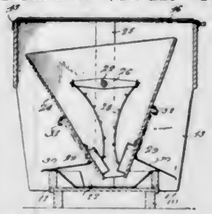
2,168,745

HOG FEEDER

Chauncey I. Ringer, Highland, Ohio

Application September 6, 1938, Serial No. 228,651

4 Claims. (Cl. 119—54)



1. A feeder of the character described comprising an immovably supported feed trough, a downwardly tapered vertically swingable hopper above and communicating with said trough, a horizontally arranged shaft swingingly supporting said hopper, hanger arms on said shaft within said hopper and extending toward opposite side walls of said hopper, curved fabric agitators loosely suspended by said hanger arms at opposite sides of said shaft, and means interiorly of the hopper and active upon the said agitators to impart movement thereto and rendering the said agitators active upon contents of the hopper.

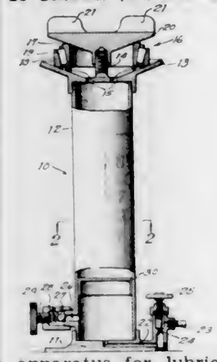
2,168,746

METHOD AND APPARATUS FOR LUBRICATION

George Francis Saal and John Gustav Schmitt, Los Angeles, Calif., assignors to Economy Engineering Co. Inc., Los Angeles, Calif., a corporation of California

Application June 16, 1936, Serial No. 85,474

13 Claims. (Cl. 184—1)



13. In an apparatus for lubricating annular bearing assemblies, a pair of members having opposite surfaces adapted to engage respectively opposite sides of a bearing assembly, a stem fixed to one of said members, its axis being adapted to be disposed within the annulus formed by the bearing assembly, the other of said members being adjustably cooperable with said stem for permitting relative movement between said members longitudinally of the stem, one of said members being provided with a passageway for admitting lubricant under pressure to the interior of the bearing assembly.

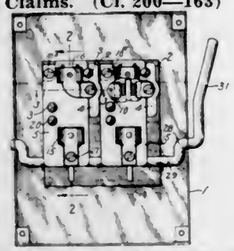
2,168,747

ELECTRIC SWITCH

Paul M. Christensen, Newington, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Application July 6, 1938, Serial No. 217,792

4 Claims. (Cl. 200—163)



1. In a switch, the combination of a base, a pair of spaced opposed contacts mounted on the base and having limited resilient movement toward and away from each other, a member movable between said contacts, and a bridging contact carried by said member for making and breaking a circuit between said pair of spaced contacts, said bridging contact having convex contact surfaces and being rotatable relatively to said member only about an axis passing through said convex contact surfaces.

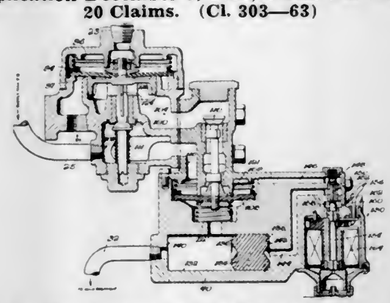
2,168,748

FLUID PRESSURE BRAKING SYSTEM

Arthur R. Leukhardt, Pittsburgh, Pa., assignor to Bendix-Westinghouse Automotive Air Brake Company, Pittsburgh, Pa., a corporation of Delaware

Application December 9, 1936, Serial No. 115,013

20 Claims. (Cl. 303—63)



1. In an automotive braking system, in combination, service brake-applying means, automatic emergency brake-applying means for effecting a brake application on failure of said first named means, and means under the control of the operator for temporarily releasing an emergency brake application.

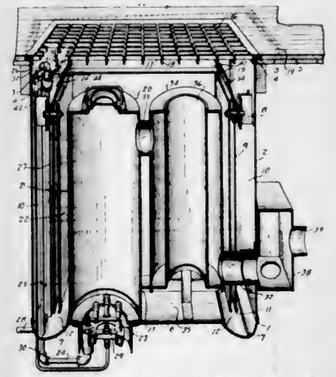
2,168,749

SAFETY DEVICE FOR HEATERS

Ambrose D. Olds, Wichita, Kans., assignor to The Coleman Lamp and Stove Company, Wichita, Kans., a corporation of Kansas

Application April 8, 1939, Serial No. 266,797

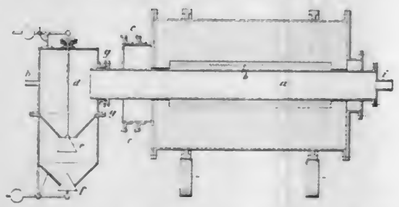
6 Claims. (Cl. 126—116)



1. In combination with a floor furnace having up and down-draft passages interconnected at both ends respectively, a heater unit in the up-draft passage, a floor grill covering said passages wherethrough cool air flows into the down-draft passage and heated air discharges from the up-

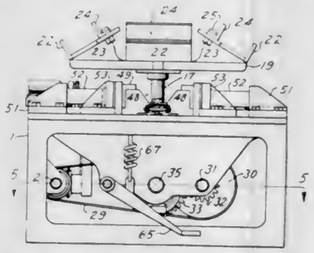
draft passage, means supplying fuel to the heater unit, a valve controlling said fuel supply, and temperature responsive means located under said grill in the down-draft passage and having connection with the valve for effecting suspension of the fuel supply when circulation of hot air is set up through the interconnected passages by way of the connected ends of said passages upon accidental blocking of air flow through said grill.

2,168,750
PRODUCTION OF METALLIC MAGNESIUM
Hellmuth Seliger and Otto Bretschneider, Bitterfeld, Germany, assignors, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
Application March 28, 1938, Serial No. 198,352
In Germany April 5, 1937
5 Claims. (Cl. 75—67)



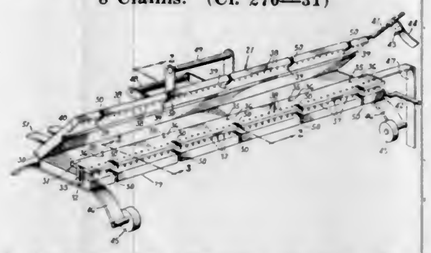
2. A process for the thermal production of magnesium by reduction of burnt magnesite with the aid of a reducing agent taken from the group consisting of silicon, ferrosilicon and aluminium which comprises adding a minor quantity of burnt lime to the reaction mixture comprising burnt magnesite and the reducing agent, imparting suitable shape to the pulverulent reaction mixture including the burnt lime, thereupon heating the shaped mixture in an inert atmosphere to temperatures between about 700 and about 1200° C. until at least superficial hardening has taken place, and thereafter heating said hardened mixture to temperatures adapted to cause generation of magnesium vapours, while condensing such magnesium vapours to form metallic magnesium.

2,168,751
PAPER BOX MACHINE
Melvin H. Sidebotham, West Newton, Mass.
Application March 1, 1937, Serial No. 128,428
5 Claims. (Cl. 93—49)



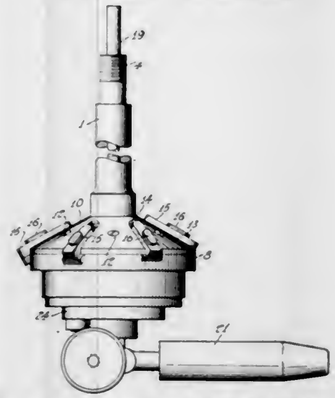
1. In a machine for making set-up boxes, a pressure applying mechanism comprising, guides for holding the side walls of a box in position, fixed gauge blocks for supporting the outside ends of the box, and devices operating on the inside of the box to firmly press the ends of the box against the said gauge blocks.

2,168,752
CLOTH CLAMP
David Sigmond, Brooklyn, N. Y.
Application July 2, 1938, Serial No. 217,229
8 Claims. (Cl. 270—31)



1. A device for attaching lengths of cloth and the like from a supply roller to a cutter's table having a transverse row of spikes for impaling the cloth, comprising a pair of clamping members for engaging the severed edge of the cloth and pulling it longitudinally of the table, depressible means on said clamping members for impaling the cloth on said spikes, and means controlled by the impaling operation for releasing the cloth from said clamping members.

2,168,753
TOOL FOR REFACING VALVE SEATS
Robert G. Smith, West Orange, N. J.
Application June 18, 1937, Serial No. 148,867
12 Claims. (Cl. 51—241)

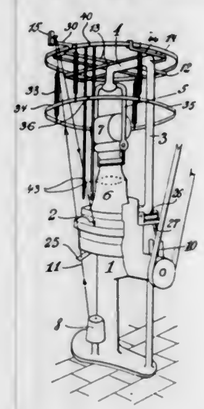


11. In a tool for grinding valve seats the combination of a revoluble casing having radially disposed guide slots, an abrading element mounted in and movable along each of said slots, a fixed cam eccentric to the axis of said revoluble casing, and means whereby said abrading elements are maintained in operative contact with said cam so that as they revolve with said casing they are also moved back and forth in said slots across the valve seat.

2,168,754
STOP MECHANISM FOR KNITTING MACHINES
Jacob Wachsman and Michael Wachsman, Brooklyn, N. Y.
Application April 27, 1938, Serial No. 204,508
5 Claims. (Cl. 66—157)

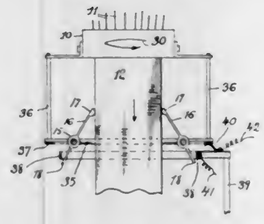
1. A stop mechanism for knitting machines which include a rotatable knitting mechanism,

a bobbin placed below the latter, an upright post having an overhanging arm extending in over the knitting mechanism and a take off device suspended from said overhanging arm; said stop mechanism comprising a detector unit under the control of the yarn passing from the bobbin to the knitting mechanism and adapted to cause stoppage of the knitting machine when a yarn



breaks or a knot occurs therein, a ring carried by said overhanging arm for supporting the detector unit in normal operative position with relation to the knitting mechanism, part of said ring being movable with respect to another part thereof and means for moving said movable part of the ring to remove the detector unit from its said normal operative position whereby to gain access to the said take off device.

2,168,755
FABRIC CONTACTING CIRCUIT CLOSER FOR KNITTING MACHINES
Michael Wachsman, Brooklyn, N. Y.
Application October 9, 1937, Serial No. 168,147
5 Claims. (Cl. 66—166)



1. A fabric contacting circuit closer for knitting machines in which the knitted fabric has a movement away from the knitting mechanism comprising a ring formed shaft, a plurality of contact fingers on said shaft, said fingers being held by gravity in normal frictional contact with the fabric, there being a contact finger for each wale of stitches in the fabric, means supporting said shaft stationary relative to the movement of the fabric, a normally open electric stop circuit for the knitting machine and means operated by the contact fingers to close the said electric circuit to stop the knitting machine when an abnormal condition in the moving fabric causes a termination of the normal frictional contact between the contact fingers and the fabric.

2,168,756
ACID RESIST POWDER FOR USE IN ETCHING
Donald B. Alnutt, St. Louis, Mo., assignor to Mallinckrodt Chemical Works, St. Louis, Mo., a corporation of Missouri
No Drawing. Application May 9, 1938, Serial No. 206,838
9 Claims. (Cl. 41—43)

1. An acid resist powder comprising the following ingredients in approximately the stated proportions:

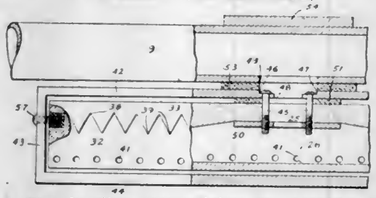
	Per cent
Resinaceous material	24–32
Lubricant powder	4–7
Adhesion powder	2–4
Coloring material	½–1½
Filler material	Balance

2,168,757
CABLE PLUG IN SLEEVES
Hamilton Baillard, New York, N. Y., and Vernon B. Pike, Morristown, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application October 16, 1935, Serial No. 45,192
11 Claims. (Cl. 174—23)



1. A cable plug for a cable consisting of a plurality of separately insulated conductors covered with a gas-tight sheath, which comprises a sleeve having a body portion of a diameter exceeding the diameter of the cable sheath sealed onto the cable sheath at the plugging point, a solid member centrally located among the conductors at the end of the sheath within the sleeve, constricted portions in the sheath over the solid member, and a filling of thermoplastic material within said sleeve.

2,168,758
HEATER AND BURNER THEREFOR
Harry T. Bellamy, Evanston, Ill.
Application April 27, 1935, Serial No. 18,502
11 Claims. (Cl. 158—104)

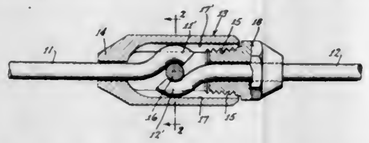


1. A gas broiler comprising in combination a gas distributing element, a burner frame carried on said element, a bottom burner of ceramic material supported on said frame in communication with said distributing element, said frame having means bearing against opposed ends of the burner to retain the same in case of mechanical damage, and a guard extending along the face of the burner in spaced relation thereto to protect the same against mechanical damage.

2,168,759
ROD COUPLING
Peter R. Betzing, Los Angeles, Calif.
Application October 24, 1938, Serial No. 236,697
5 Claims. (Cl. 287—104)

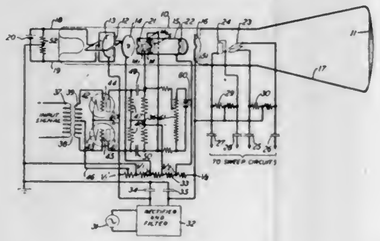
1. A rod coupling comprising a rod; a coupling

thimble mounted on the end of said rod; a pin rigidly mounted in said thimble transversely thereof; a second rod having an offset end portion within said thimble engaging said pin on



the side of said pin opposite to the main portion of the rod and means cooperating with said thimble for holding said second rod in alignment with said first mentioned rod.

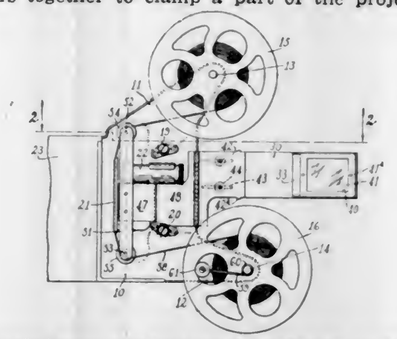
2,168,760
CATHODE RAY DEVICE
Chester J. Calbick, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application December 30, 1936, Serial No. 118,292
11 Claims. (Cl. 250—27)



1. In a cathode ray device, a cathode for generating a beam of electrons, an apertured plate in the path of said beam of electrons, said plate being placed at a potential which is positive with respect to that of said cathode, a pair of plates between said apertured plate and said cathode located on opposite sides of the beam for modulating said beam by deflecting it with respect to said aperture to vary the number of electrons which pass through said aperture in accordance with signals, certain of the electrons in said beam being caused to strike said plate resulting in the emission of secondary electrons, and means for placing the average of the potentials applied to the modulating plates at any time at a potential which is negative with respect to that of the apertured plate to greatly reduce the flow of secondary electrons between said apertured plate and either of the modulating plates.

2,168,761
DEVICE FOR VIEWING FILMS
Samuel P. Caldwell, Hamden, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application January 25, 1938, Serial No. 186,834
6 Claims. (Cl. 88—24)

1. A film-viewing attachment for a standard moving picture projector comprising a supporting member carrying at its forward end a reflector and a screen in cooperative relation with the reflector, a second member adapted to be releasably secured to the first intermediate the ends of the latter and extending rearwardly of the point of securement in spaced parallel relation with the first member, and means for drawing said members together to clamp a part of the projector

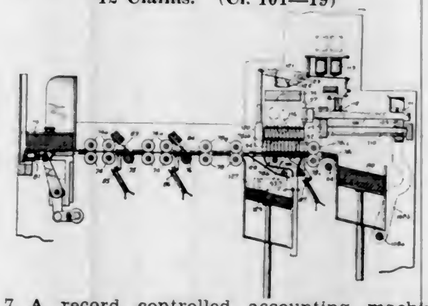


therebetween and support the reflector in optical alignment with the projection beam.

2,168,762
METHOD OF CONCENTRATING FLUORSPAR ORES
Julius Bruce Clemmer, Rolla, Mo., and Carl O. Anderson, Baxter Springs, Kans., assignors to Mahoning Mining Company, Youngstown, Ohio, a corporation of Delaware
No Drawing. Application July 20, 1938, Serial No. 220,264
3 Claims. (Cl. 209—166)

1. The method of concentrating fluorspar ores which comprises mixing the ground ore with water to form a pulp, adding to the pulp a fatty acid fluorspar flotation reagent and quebracho extract, agitating the mixture to produce a froth and removing the froth.

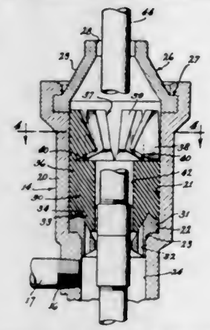
2,168,763
RECORD CONTROLLED MACHINE WITH IMPROVED SERIAL NUMBER CONTROLS
George F. Daly, Binghamton, and Arthur H. Dickinson, Bronxville, N. Y., assignors, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Original application March 23, 1933, Serial No. 662,250. Divided and this application December 31, 1937, Serial No. 182,868
12 Claims. (Cl. 101—19)



7. A record controlled accounting machine with record handling devices to pass a series of records in succession in a common run through the machine, certain records in a common run being master records and other records being detail records, said master and detail records having distinguishing characteristics thereon to designate the type of record, means for sensing

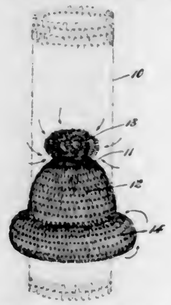
the distinctive characteristics upon the records to determine solely by the sensing of the records in the common run whether a record is a detail or master record, means for effecting serial numbering operations on the record, said means including devices under the control of the aforesaid sensing means for suppressing serial numbering operations upon the master records while permitting such operations upon the detail records.

2,168,764
BLOW-OUT PREVENTER
Leon E. Day, Long Beach, Calif., assignor to Regan Forge & Engineering Company, a corporation of California
Application October 7, 1938, Serial No. 233,787
8 Claims. (Cl. 166—15)



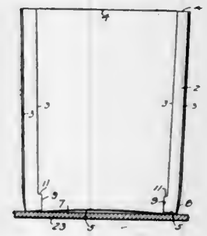
1. A blowout preventer adapted to be used in combination with a well casing having a string of tools extending thereinto comprising: a hollow body member; a hollow centrally apertured cap member removably mounted on said body member, said cap member having an upwardly converging interior wall portion; and an annular resilient packer slidably positioned in said body member, said packer comprising a solid annular body portion and a segmented annular upper portion, said segmented portion being comprised of a plurality of inwardly deflectable fingers adapted to form a tight closure about the string when in inwardly deflected position.

2,168,765
HEADWEAR
Charles H. Dowd, South Orange, N. J., assignor to Metal Textile Corporation, West Orange, N. J., a corporation of Delaware
Application February 10, 1938, Serial No. 189,747
1 Claim. (Cl. 2—201)



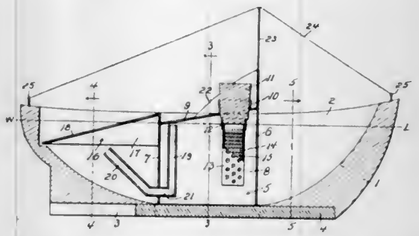
A practical and decorative article of headwear comprising, a tubular sleeve knitted from polished ribbonlike metallic wire, the knitted loops of which provide a multiplicity of light reflecting facets, the top end of said sleeve being constrictively gathered and closed at one portion at a point inwardly of the extremity thereof, the extremity of said sleeve upwardly of said constrictively gathered portion being disposed to form an ornamental rosette at the peak of said closed top end portion, portions below said constrictively gathered portion providing an elastic head covering crown body, and the bottom end of said sleeve being rolled back and outwardly upon itself to provide an elastic annularly stretchable head encircling brim member of round cross sectional shape.

2,168,766
PATCH-MAKING TOOL
Eugene Dugaw, Tacoma, Wash.
Application June 1, 1936, Serial No. 82,716
7 Claims. (Cl. 164—29)



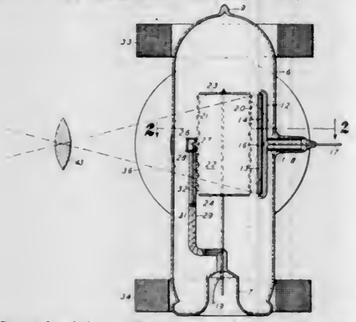
1. A patch cutting tool, comprising a pair of similarly curved complementary knives, contacting with each other to enclose an open space, the vertical end of one knife contacting with the vertical side wall of the other knife, whereby the curved line of shear of one knife completely crosses the oppositely curved line of shear extended of the other knife.

2,168,767
AUTOMATIC DIVING TOY
Amos D. Ellsworth, Plainview, Tex.
Application October 17, 1938, Serial No. 235,517
12 Claims. (Cl. 46—94)



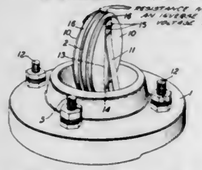
1. A diving toy comprising a hull, at least two buoyancy tanks, an inverted siphon connecting said tanks, and a gas generator in one of said tanks, said tanks and said siphon being constructed to transfer gas from the tank containing the generator at predetermined intervals to the other tank to shift the center of buoyancy aft until the gas shall have been siphoned out of the first tank into said other tank and spilled from the same.

2,168,768
TELEVISION METHOD
Philo T. Farnsworth, San Francisco, Calif., assignor, by mesne assignments, to Farnsworth Television & Radio Corporation, Dover, Del., a corporation of Delaware
Original application January 9, 1928, Serial No. 245,334, now Patent No. 1,970,036, dated August 14, 1934. Divided and this application April 15, 1932, Serial No. 605,495
10 Claims. (Cl. 178—7.2)



1. In television, the steps of forming an electrical image of the field to be pictured, accelerating the electrons constituting said image, deflecting said electrons after they have attained their accelerated velocity, and selecting electrons from successive portions of said image determined by the deflection thereof.

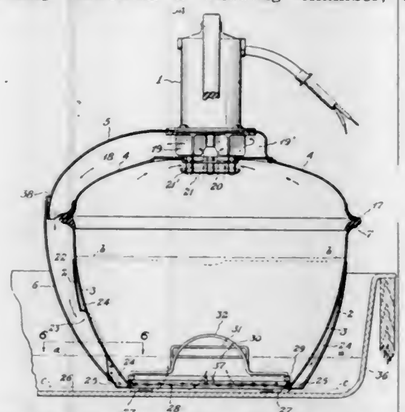
2,168,769
PROTECTOR
Earl L. Fisher, Newark, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 31, 1937, Serial No. 161,753
3 Claims. (Cl. 175—30)



1. A protective device comprising a pair of electrodes separated by a member of high resistance material having a non-linear variation of resistance with applied voltage, a bimetallic element mounted in a slot in one electrode, an auxiliary contact connected to the other electrode and located adjacent said slot in a position to be contacted by the bimetallic element when a dangerously high temperature exists in the device.

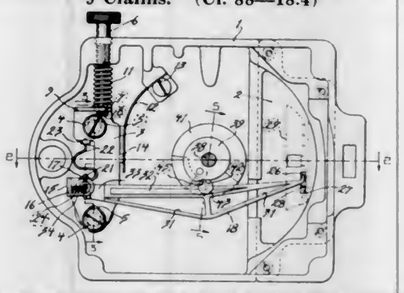
2,168,770
CLEANING MACHINE
George Gunn, Jr., Seattle, Wash.
Application June 25, 1937, Serial No. 150,352
11 Claims. (Cl. 141—9)

1. A cleaning machine comprising spaced inner and outer casings having bottom openings and open tops, means forming an air duct exteriorly of the casings, said air duct having an opening communicating with the space between the casings, said space being arranged to direct fluids, passing outwardly therefrom, toward the bottom opening of the inner casing, means for sealing the space between said casings above said duct opening, a cover unit for the inner casing and forming therewith a cleaning chamber, and



means for drawing air from the cleaning chamber and discharging it into said air duct.

2,168,771
INTERMITTENT FEED DEVICE
Albert S. Howell, Chicago, Ill., assignor to The Bell & Howell Company, Chicago, Ill., a corporation of Illinois
Application August 28, 1936, Serial No. 98,432
9 Claims. (Cl. 88—18.4)



1. In an intermittent feed device the combination of a lever like feed shuttle, an open pivot mounting for said shuttle at one end thereof comprising a pivot bearing formation on said shuttle and a cooperating pivot bearing formation one of which is of radially open bearing formation, revoluble means operative on said shuttle intermediate its ends for actuating said shuttle in one direction, a spring operative on said shuttle in the region of said mounting and transversely of said mounting adapted to maintain the shuttle engaged on said mounting, and a second spring operative on said shuttle in the region of said mounting and longitudinally of the shuttle and eccentrically of said mounting and adapted to urge the shuttle longitudinally thereof against said mounting and to actuate the shuttle in opposition to said revoluble means.

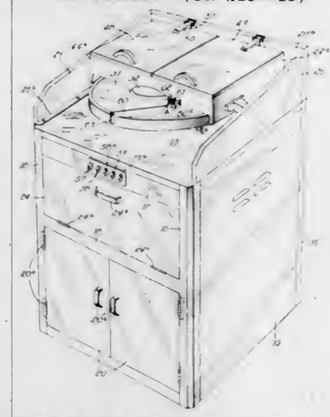
2,168,772
WORK-HOLDING VISE
Samuel A. Huffman, Pittsburgh, Pa., assignor to Miller Printing Machinery Co., Pittsburgh, Pa., a corporation of Pennsylvania
Application April 1, 1937, Serial No. 134,339
5 Claims. (Cl. 29—67)

1. In a vise for clamping articles against an abutment, a base, a guide bar movable on said base, means urging said guide bar toward said abutment, a slide block movable on said guide bar toward and away from said abutment and provided with a vise jaw cooperating with said abutment, a clutch slide movable on said slide block and having a wedging surface facing a surface of said guide bar, a wedging member disposed between said wedging surface and said



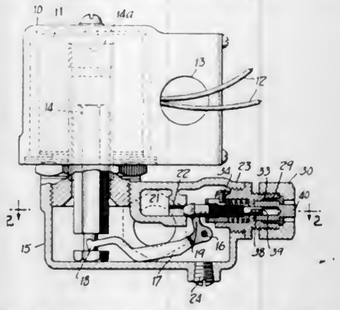
guide bar surface and effective on movement of the clutch slide along the slide block in one direction to bind the clutch slide against the guide bar and to free the clutch slide from the guide bar upon movement of the former along the vise jaw in the other direction, an operating handle mounted on said vise jaw, and connection means between said operating handle and said clutch slide.

2,168,773
HAMBURGER FRYING MACHINE
Webster A. Parr, Chicago, Ill., assignor to The Roto-Way Corporation, Chicago, Ill., a corporation of Illinois; Fred E. Hummel, trustee
Application July 26, 1937, Serial No. 155,657
15 Claims. (Cl. 219—19)



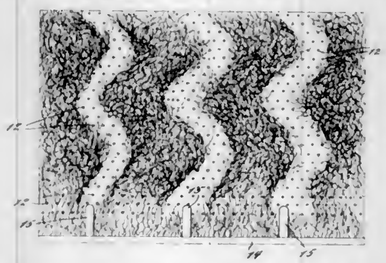
1. A meat frying machine comprising a housing forming a cabinet or the like; an intermediate horizontally extending supporting member in said cabinet, a journalling bearing on said intermediate member; a vertically extending shaft having its lower end journalled in said bearing, the upper end of said shaft extending above said cabinet; means for journalling the upper portion of said shaft; a rotatable hot plate removably and rotatably mounted on the upper end of said shaft, said hot plate including a central flanged hub; a slip clutch on the upper end of said shaft and normally engaging said hot plate hub to transmit rotative movement thereto, said clutch permitting free manual rotation of said hot plate in either direction; electrical heating elements mounted adjacent said hot plate; means for supporting said electric heating elements adjacent to said hot plate, a cover member mounted above a portion of said hot plate; an electric motor in said cabinet; and gear reduction mechanism gearingly connecting said motor and said vertical shaft whereby said shaft and hot plate may be selectively rotated.

2,168,774
SOLENOID VALVE
Wilbur F. Hurlburt, East Orange, N. J., assignor to Automatic Switch Co., New York, N. Y.
Application July 8, 1938, Serial No. 218,113
7 Claims. (Cl. 251—134)



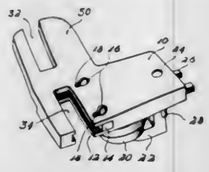
1. In a valve structure, a valve body including a valve seat, a bearing removably mounted in said body at a fixed distance from said seat, a valve member mounted in said bearing for movement toward and away from said seat, said valve member comprising a pair of mutually threaded elements, yieldable means urging the valve member in one direction, a valve actuator of constant throw mounted in the valve body and adapted to move the valve member in the other direction, means for turning one of said elements relative to the other to vary the effective length of the valve member, said means comprising a rotatable stem splined to the outer end of one of said elements, and liquid-tight means for enclosing all but the end of said stem, whereby the variation of the effective length of the valve member is controllable from the exterior of the valve.

2,168,775
METHOD OF MAKING WEB MATERIAL
Edward Hurst and Myrick Crane, Fall River, Mass., assignors to United Cotton Products Company, Fall River, Mass., a corporation of Massachusetts
Application May 17, 1935, Serial No. 21,949
9 Claims. (Cl. 19—106)



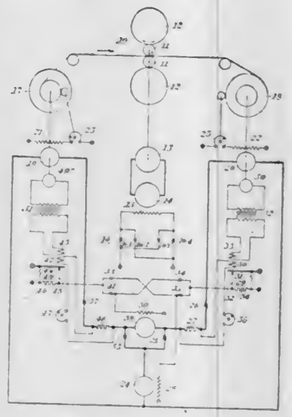
1. In combination, a card comprising a rotating cylinder having a multiplicity of teeth thereon to engage fibers, a plurality of relatively widely spaced air nozzles disposed adjacent the face of said cylinder and each adapted to direct air towards said face, means to supply air to said nozzles in sufficient volume and at sufficient velocity to substantially clear the fibers from a relatively small number of said teeth in front of each nozzle, and means to move said nozzles back and forth generally parallel to the face of the cylinder.

2,168,776
WELT SEWING ATTACHMENT
Joseph Lefevre, Lynn, Mass.
Application December 18, 1937, Serial No. 180,578
4 Claims. (Cl. 112—52)



2. An attachment for a straight needle shoe stitching machine for stitching a welt to the upper and insole of a shoe after lasting, comprising a bracket frame adapted to be fixed to a shoe stitching machine, means for guiding the welt through said frame, a bracket arm, pivotal means for adjustably securing said bracket arm to said frame, a stop pin mounted in said frame for limiting pivotal movement of said bracket arm in one direction, said bracket arm being free to be swung out of position to enable repairing of the welt and a rotatable guide wheel carried by said arm adapted to engage the upper of the shoe while the welt is being stitched thereto, said guide wheel having a narrow cylindrical face at the top portion thereof and a beveled peripheral face at the bottom portion thereof.

2,168,777
TENSION CONTROL FOR STRIP MILLS
Alfred D. McCreary, Aliquippa, Pa., assignor to Jones & Laughlin Steel Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 5, 1937, Serial No. 140,800
3 Claims. (Cl. 80—32)

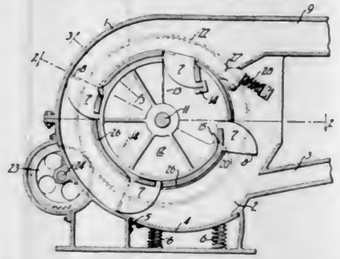


3. The combination with a strip reel having a dynamo-electric machine connected thereto, of a regulator controlling the current through the machine, a pilot generator driven at a speed proportional to that of said reel, and a transformer having its primary winding connected to said generator and its secondary winding connected to said regulator.

2,168,778
PROCESS OF PRODUCING WATERPROOF FIBROUS SHEETS
John Alexander Montgomerie, Cambuslang, and Peter Kennedy Archibald, Rutherglen, Scotland, assignors to American Bitumuls Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 31, 1936, Serial No. 93,658. In Great Britain and Germany December 16, 1935
6 Claims. (Cl. 92—21)

2. In a process for the production of a felted fibrous material which comprises, mixing a casein stabilized bituminous emulsion with a paper pulp, adding alum to precipitate the bitumen of said emulsion on the fibers of said pulp, and forming a felted fibrous mat from said pulp material, the step of promoting said precipitation with said alum by incorporating an earth alkali hydroxide in said paper material prior to said precipitation in an amount sufficient to promote but insufficient to effect said precipitation, whereby upon precipitation of the bitumen a colloidal precipitate of earth alkali sulfate and aluminum hydroxide envelops the precipitated particles of bitumen.

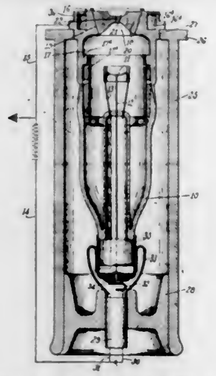
2,168,779
CONCRETE PUMP
Howard Slater Murray, Las Vegas, Nev., assignor to Uniflow Pump Company, Las Vegas, Nev., a corporation of Nevada
Application June 2, 1934, Serial No. 728,701
4 Claims. (Cl. 103—140)



1. A concrete pump comprising an annular pumping chamber having an outlet, a rotor, an impeller mounted on the rotor for movement from a retracted position within the rotor to an extended position projecting into the pumping chamber, said outlet having a wall with a lip lying adjacent the periphery of the rotor, a pivotally mounted sealing element having an arcuate face lying adjacent the edge of said lip, and means for pressing the sealing element against the rotor.

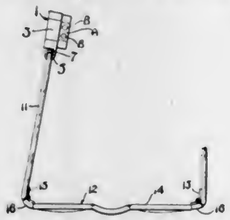
2,168,780
X-RAY TUBE
Dimitry E. Olshevsky, East Orange, N. J.
Original application December 6, 1930, Serial No. 500,583. Divided and this application August 10, 1937, Serial No. 158,287
8 Claims. (Cl. 250—149)

1. An X-ray tube having an envelope, a source of electrons, and a target, the latter being a part of said envelope and emitting as useful radiation X-rays having passed through the target, said target being relatively transparent to X-rays, and consisting of an alloy of a plurality of metals, one of said metals having a relatively high atomic weight and serving as an X-ray generating substance, and the other having a relatively low atomic weight and serving as an X-ray transmitting substance, and the amount of said second



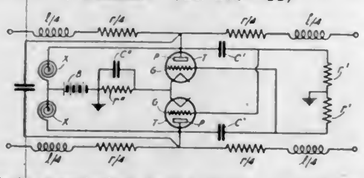
metal present in the alloy being greater than that of the first metal.

2,168,781
HEARING DEVICE
John Petersen, Newark, N. J.
Application September 21, 1937, Serial No. 164,857
9 Claims. (Cl. 179—107)



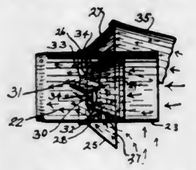
1. The combination with a pair of eye-glasses including bows, and an audiphone, of a carrier member detachably carried by one of said bows and provided with means for frictionally gripping said audiphone.

2,168,782
ELECTRON DISCHARGE DEVICE CIRCUIT
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application October 7, 1935, Serial No. 43,880
7 Claims. (Cl. 178—44)



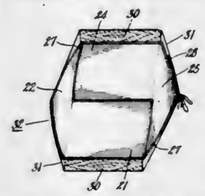
1. A transmission line section comprising two terminals each having in series therewith concentrated impedances, and electronic means for producing negative shunt conductance across said terminals, said means including a pair of electron discharge devices each comprised of anode, cathode and grid electrodes, the anode of each device being directly coupled to one terminal and capacitively coupled to the grid of the associated device and to the other anode, the cathode of said devices being connected together, means for exciting the grid of each device in opposite phase to the potential of its cooperating anode, the mutual conductance of each device being greater than twice the series resistance of the line section divided by the square of the characteristic impedance of the line section.

2,168,783
FLOW BOOSTER FOR AIR PIPES
Joseph Rucier, Philadelphia, Pa.
Application February 4, 1936, Serial No. 62,262
4 Claims. (Cl. 98—38)



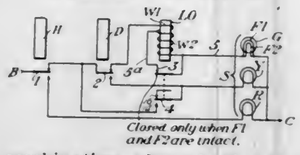
1. In an air flow device adapted to operate in connection with the natural flow of heated air in a hot air pipe of a hot air furnace or the like, stationary means for increasing said natural flow of heated air in an unobstructed, central zone of said hot air pipe beyond said means, said stationary means comprising a tubular body forming a continuous section of said hot air pipe, a truncated cone member positioned to have its large end fitting into the bore of said tubular body, to be further positioned substantially co-axially therewith and to have its large end in free and unobstructed receiving position, to receive a full section of hot air from said hot air pipe, and with its small end positioned to discharge a central zone of hot air into a continuing length of said hot air pipe in the line of its natural flow, to increase its lineal velocity at said central zone there being openings in that zone of said tubular body, surrounding said conical member beyond its large end, whereby free air surrounding said zone of openings, is drawn into said tubular body to mix with heated air flowing in a central zone from the small end of said conical member.

2,168,784
GUARD OR FRINGE AND PACKAGE THEREFOR
Raymond Clifford Scott, Chattanooga, Tenn., assignor to O. B. Andrews Company, Chattanooga, Tenn., a corporation of Tennessee
Application May 25, 1937, Serial No. 144,588
4 Claims. (Cl. 206—65)



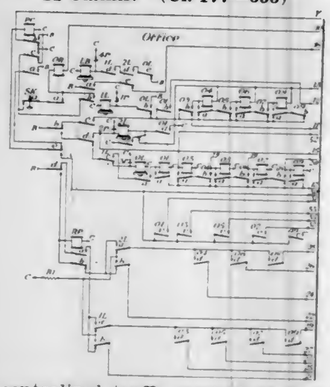
1. A package including a first stack of fruit or vegetable guards or fringes, each guard having a body and a flange extending at an angle therefrom, a second and similar stack of guards disposed on said first stack in inverted position, the flanges of each stack extending along a side of the other stack respectively, and means securing said stacks together in superposed position.

2,168,785
LIGHT SIGNAL
Norman F. Agnew, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Continuation of application Serial No. 56,043, December 24, 1935. This application January 31, 1936, Serial No. 61,785
5 Claims. (Cl. 171—97)



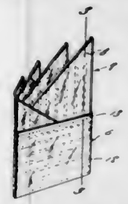
1. In combination, a lamp having two filaments connected in multiple, means effective to energize both of said filaments simultaneously when both are intact, a relay having a winding and a contact, an energizing circuit for said two filaments which includes said winding, and means under the control of said contact for preventing a rise in the potential across one filament of said lamp when the other filament burns out.

2,168,786
REMOTE CONTROL SYSTEM
Norman F. Agnew, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application January 19, 1934, Serial No. 707,332
11 Claims. (Cl. 177—353)



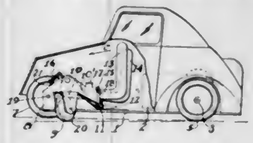
1. A centralized traffic control system of the synchronous selector type comprising an office and a plurality of stations, a single line wire connecting said office and stations, a plurality of traffic controlling devices including one or more at each station, a station selector for each station, an indicator at the office for each device, stepping apparatus for transmitting a series of timed impulses of current each of selected polarity and spaced by timed intervals of no current over said line wire from the office to each station in turn during a single cycle of operation of said apparatus, said series including a station selecting impulse for each station and a group of one or more function selecting impulses for each of one or more selected stations, means at the office operable to control the relative polarity of selected impulses of said series to select the stations at which devices to be controlled are located and to effect the control of such devices, means effective to control each station selector and a plurality of devices at a selected station each in accordance with the relative polarity of a particular impulse of the series, means effective at each selected station to control the relative length of selected impulses and of selected intervals between impulses in accordance with the condition of devices at such station, and means effective to control the indicators for the devices of each station of which the station selector is actuated, each in accordance with the relative length of a particular impulse or interval between impulses of said series.

2,168,787
MADE-UP HANDKERCHIEF
Clarence William Beardsley, East Detroit, Mich.
Application June 18, 1938, Serial No. 214,550
1 Claim. (Cl. 35—56)



A made-up handkerchief comprising a substantially rectangular shaped stiffening strip, a cover for said strip and cooperating therewith in forming a portion to be inserted in a pocket of a garment with frictional engagement with walls of the pocket, a plurality of folded portions giving the appearance of a folded handkerchief extending into the cover and stitched to said cover and the stiffening strip, each of said second-named portions being made from a blank of material of substantially rectangular shape and folded from one corner to its diagonal corner providing said second-named portion of triangular shape, said folded portions having the pointed ends thereof arranged in stepped formation and one of said folded portions extending around edges of the other folded portions.

2,168,788
MECHANICALLY MOVING TOY
Hans Biller, Nuremberg, Germany, assignor to Transatlantic Factors Inc., New York, N. Y.
Application August 26, 1938, Serial No. 226,893
7 Claims. (Cl. 46—211)

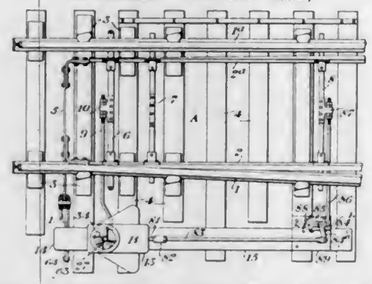


1. A mechanically moving toy comprising a group of wheels adapted to give the toy a certain path of movement, at least one control wheel adapted to give the toy another path of movement, a support for said control wheel adapted to be pivoted upward and downward, a spring which tends to turn the support with the control wheel downward, blocking means adapted to block the support in its raised position, a control lever connected with the support and adapted to pivot the support from its lowered position into its raised blocked position, a second control lever pivotally attached to a stationary part of the toy and adapted to release the blocking means.

2,168,789
PROCESS OF PREPARING GLUCOSIDES HAVING AN ACTION ON THE HEART OBTAINED FROM OLEANDER LEAVES
Max Bockmühl and Gustav Ehrhart, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application June 26, 1937, Serial No. 150,659. In Great Britain July 3, 1936
4 Claims. (Cl. 87—28)

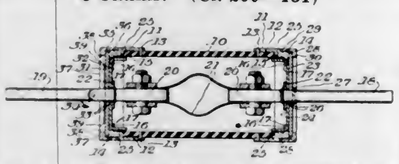
2. The process which comprises extracting an aqueous extract of oleander leaves with a chlorinated aliphatic hydrocarbon, precipitating the glucosides having an action on the heart dissolved therein by means of a liquid saturated hydrocarbon and extracting the precipitate with ether.

2,168,790
RAILWAY SWITCH OPERATING APPARATUS
Herbert L. Bone, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 27, 1937, Serial No. 176,837
23 Claims. (Cl. 246—291)



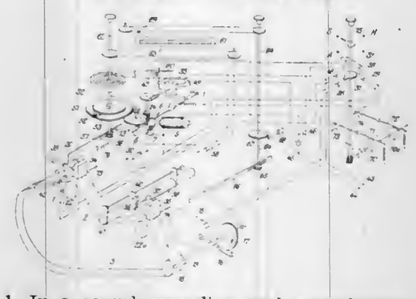
1. In combination, a switch of the type adapted to be trailed, means for normally biasing said switch to one extreme position, a fluid pressure device operatively connected with said switch and provided with means for controlling the rate of movement of said switch by said biasing means, and means actuated by a train trailing said switch when said switch occupies its one extreme position for supplying fluid pressure to said fluid pressure device to cause said fluid pressure device to force said switch to its other extreme position.

2,168,791
RENEWABLE ELECTRIC FUSE
Daniel E. Carney, Pittsburgh, Pa., assignor to James M. Magee and Harry I. Neaman, Pittsburgh, Pa.
Application March 22, 1938, Serial No. 197,384
4 Claims. (Cl. 200—131)



1. In an end construction for a renewable fuse, the combination with a tubular shell of insulating material and a metal ferrule fixed on the end of the shell, said ferrule having diametrically opposed notches, of a terminal blade provided with a transversely disposed flash-bar fixed thereon, a slotted closure plate slipped down over the outer end of the terminal blade against the flash-bar, said plate having fingers to engage said notches to prevent relative rotative movement between the closure plate and the shell, said plate being arranged to rest upon the outer end of the ferrule, means protruding from the opposite sides of the terminal blade to hold the closure plate assembled with the terminal blade and the flash-bar, and a screw cap arranged to be applied to the end of the ferrule after the terminal and closure plate have been positioned in place and having a threaded skirt to be screwed onto the ferrule and an overhanging flange to bear against the outer face of the closure plate.

2,168,792
SOUND RECORDING AND REPRODUCING APPARATUS
Karl Daniel, Cologne-Sulz, Germany, assignor to Tefi-Apparatebau Dr. Daniel K.-G., Cologne, Germany
Application December 29, 1937, Serial No. 182,179
In Germany January 2, 1937
11 Claims. (Cl. 274—11)

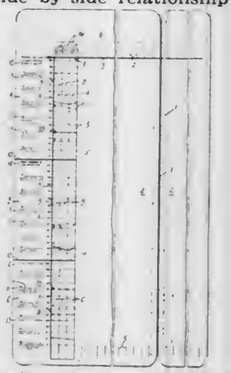


1. In a sound recording and reproducing apparatus of the type referred to, the combination of: a sound box; a longitudinally movable endless sound carrier associated therewith; means for driving said sound carrier; an electric circuit for actuating said driving means; a second circuit operable to effect relative transverse movement between said sound carrier and said sound box; an electromagnet included in said circuit; a pivoted armature associated with said magnet; means operable by said electromagnet for effecting said relative transverse displacement; a normally-closed contact arranged in parallel with said second circuit; a normally-open contact arranged in series with said parallelly-arranged contact, said open contact being adapted to be closed on movement of said armature; a second normally-closed contact included in both said circuits, a switch arranged parallel with said second contact, and a main contact adapted to be closed by movement of said sound carrier to effect said transverse displacement and, with said switch closed, to allow of continuation of movement of said carrier and, with said switch open, the stopping of said carrier.

2,168,793
GRAPH CONSTRUCTION
Jay H. Dobbin, Jr., Burlingame, Calif.
Application April 22, 1938, Serial No. 203,601
6 Claims. (Cl. 35—24)

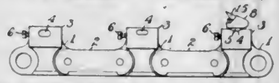
1. In a graph, a sheet of relatively rigid material, a plurality of similar-sized strips of paper-like material each bearing a printed section of a continuous graph line extending transversely thereacross arranged to connect to form said con-

tinuous graph line when the strips are positioned edgewise in side by side relationship and guide



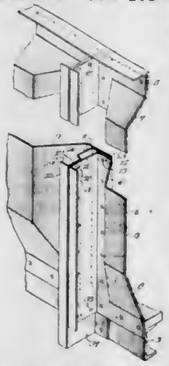
means on the sheet for use in positioning said strips in said relationship.

2,168,794
MINING CHAIN CUTTER
Frank L. Fulke, Terre Haute, Ind., assignor to Frank Prox Company, Terre Haute, Ind., a corporation of Indiana
Application July 1, 1933, Serial No. 678,555
14 Claims. (Cl. 262—33)



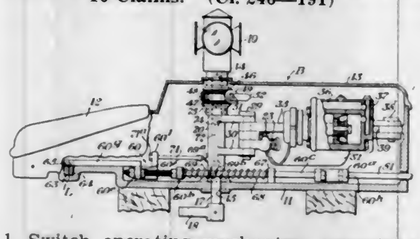
1. A bit holder having a head and a shank, a plural armed bit seated in a recess in the head with an arm projecting outwardly therefrom in position to cut, and a plunger operable in the holder to engage the projecting arm for preventing the displacement of the bit from its recess.

2,168,795
SIDE WALL FOR RAILWAY CARS
Garth G. Gilpin, Riverside, Ill., assignor to Standard Railway Equipment Manufacturing Company, Chicago, Ill., a corporation of Delaware
Application December 7, 1937, Serial No. 178,562
5 Claims. (Cl. 105—409)



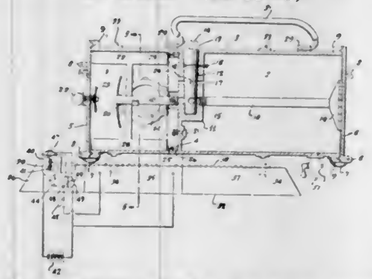
1. In an open top railway car having spaced apart frame members, a pair of wall plates extending between and secured to said members to form a load retaining means therebetween, a portion of one of said plates overlapping a portion of the other of said plates, means securing said overlapping portions together, each of said wall plates formed with an outwardly projecting panel to increase the cubical capacity of the car, one of said plates having an integral flange at a vertical margin thereof closely adjacent the overlapping portions of said plates, a reinforcing element secured to said wall plate portions by said means, said reinforcing element and said flange being spaced apart adjacent said overlapping portions the outer margin of said flange and the outer margin of said reinforcing element being substantially in contact, and means to secure said outer margins together.

2,168,796
RAILWAY SWITCH OPERATING APPARATUS
James I. Grammer, Penn Township, Allegheny County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application November 19, 1937, Serial No. 175,482
10 Claims. (Cl. 246—191)



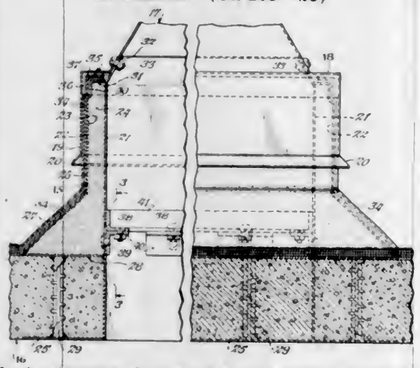
1. Switch operating mechanism comprising a switch actuating shaft, a rotatable member, a hand-throw lever, differential gearing connecting said hand-throw lever with said shaft and said member, and biasing means connected with said member and effective to oppose its rotation when said hand throw lever is operated.

2,168,797
METHOD OF AND APPARATUS FOR ROASTING AND BREWING COFFEE
Edward Hodge Havis, Atlanta, Ga., assignor of one-third to Sam Everett Finley and one-third to Robert D. Kneale, both of Atlanta, Ga.
Application November 13, 1937, Serial No. 174,403
11 Claims. (Cl. 53—3)



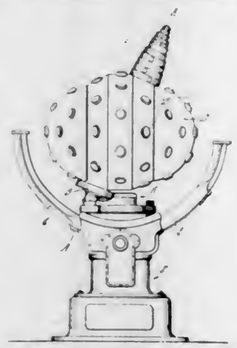
1. An apparatus of the character described, comprising a casing having therein a normally sealed roasting chamber and a normally sealed water reservoir positioned end to end with an interposed pressure relief valve adapted to pass vapors from the roasting chamber into the water reservoir during the roasting of coffee in said chamber, and manually operable means to permit passage of water from the reservoir into the chamber during the subsequent infusion period.

2,168,798
STRUCTURAL CURB
William F. Hirschman, Buffalo, N. Y., assignor to W. F. Hirschman Co., Inc., Buffalo, N. Y., a corporation of New York
Application March 31, 1938, Serial No. 199,212
15 Claims. (Cl. 108—26)



1. A structural curb for mounting apparatus over an opening in a roof or deck comprising a metal body having side walls which extend above said opening, laterally extending walls which overlie the portions of the roof or deck surrounding said opening, angularly inclined walls which are joined to said last named walls and which provide "cant strips" for roofing felt or flashing and a frame which fits around the tops of said side walls for securing said felt or flashing to said curb and upon which said apparatus seats.

2,168,799
PROJECTION APPARATUS
Frank D. Korkosz and John J. Korkosz, Chicopee, Mass.
Application July 20, 1937, Serial No. 154,590
8 Claims. (Cl. 88—24)



1. In an apparatus of the class described, a rotatable lens support, a light source in said support, a lens structure in operative relation relative to said light source, a member rotatable relative to said lens structure on the axis thereof, a shutter pivoted to said member for swinging movements, a weight means for rotating said member and swinging said shutter, all adapted and arranged in cooperative relationship whereby said weight means rotates said rotatable member and swings said shutter into a certain position between said source of light and said lens structure when the axis of the same is in a certain position and said weight means rotates said member and swings said shutter away from said certain position when the axis of the lens is in a different position.

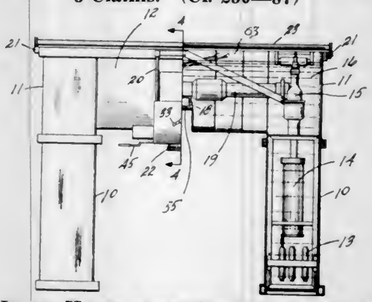
2,168,800
DIAZOAMINO COMPOUNDS SOLUBLE IN WATER AND PROCESS OF PREPARING THEM
Herbert Kracker and Richard Schmid, Frankfort-on-the-Main-Hochst, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 14, 1936, Serial No. 105,630. In Germany October 17, 1935
8 Claims. (Cl. 260—140)

1. The process which comprises combining with diazo-compounds not containing groups imparting solubility in water selected from the group consisting of carboxylic acid, sulfonic acid and hydroxyl groups the diazoamino-compounds corresponding with the following general formula:

$$R''—N=N—N—R$$
$$\quad\quad\quad\quad\quad\quad R'$$

wherein R'' stands for the radical of an amine capable of being coupled selected from the group consisting of radicals of the benzene and naphthalene series not containing groups imparting solubility in water selected from the group consisting of carboxylic acid, sulfonic acid and hydroxyl groups, R' stands for a member of the group consisting of hydrogen, alkyl, hydroxyalkyl, hydroaryl and a radical of the benzene series, R for a member of the group consisting of aliphatic, hydroaromatic and heterocyclic radicals and radicals of the benzene and naphthalene series containing groups imparting solubility in water selected from the group consisting of carboxylic acid, sulfonic acid and hydroxyl groups, or wherein R and R' jointly stand for the radical of a heterocyclic ring system in which the nitrogen is the hetero-atom and which contains groups lending solubility in water selected from the group consisting of carboxylic acid, sulfonic acid and hydroxyl groups.

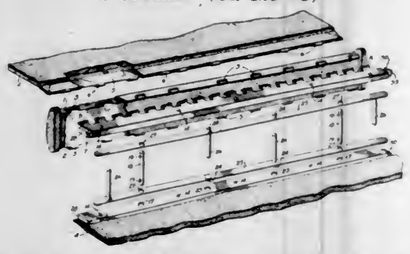
2,168,801
X-RAY APPARATUS
William M. Lee, Covington, and Walter H. Haupt, Ludlow, Ky., assignors to The Kelley-Koett Manufacturing Company, Inc., Covington, Ky., a corporation of Ohio
Application March 9, 1938, Serial No. 194,897
3 Claims. (Cl. 250—87)



1. In an X-ray apparatus two upright tanks, a trough of substantially U shaped cross section between them, a slidable lid over said trough, a window for the emergence of an X-ray beam from substantially the lower middle area of said trough,

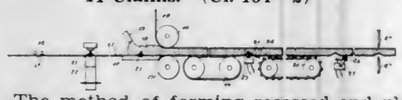
a carriage bearing shielding material, a ray-directing cylinder or cone rotatable about the window-bearing section and means for flexing the upper ends of said carriage, whereby the latter may be accommodated to the contour of the said trough.

2,168,802
LOOSE LEAF BINDER
Jay Raymond Newland, Benton Harbor, Mich., assignor to Remington Rand Inc., Buffalo, N. Y.
Application April 10, 1937, Serial No. 136,157
2 Claims. (Cl. 129—8)



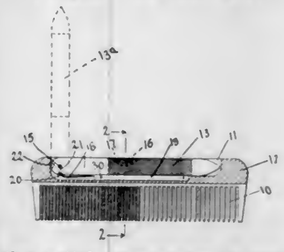
1. In a loose leaf binder, a binder bar construction comprising a pair of casing members of substantially U-shape in cross section assembled in opposed relation with side portions of one casing engaging inside of the side portions of the other casing, means securing said casing members together to form a tubular binder bar open at one end and having the entrance to said open end restricted by said securing means, a locking bar slidable between and housed by said casing members, one casing member having post receiving openings, said locking bar having openings for receiving the ends of binder posts and formed to cooperate with portions of said binder posts for locking said posts to said binder bar, resilient means for normally moving said locking bar into locking position engaged with said locking bar and said securing means, and operating means formed for insertion in the open end of said binder bar and for cooperation with said securing means for engaging and moving said locking bar into non-locking position whereby only an operating means that cooperates with said securing means is adapted to operate said locking bar.

2,168,803
METHOD AND APPARATUS FOR MANUFACTURING WALLBOARD
John Page, Evanston, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application October 23, 1937, Serial No. 170,510
11 Claims. (Cl. 154—2)



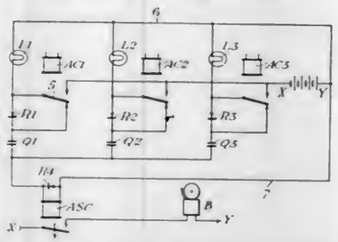
1. The method of forming recessed-end plasterboards which comprises securing to the outer surface of a fibrous cover sheet at spaced intervals supporting members extending transversely of said sheet, applying a plastic mass and a second fibrous cover sheet to said first cover sheet, forming the plastic mass between said sheets to a desired thickness, said supporting members during said forming operation supporting said first cover sheet so as to form spaced depressions in one surface of the formed board, supporting said formed board and said supporting members until said plastic mass has set thereafter removing said supporting members, and severing the cover sheets and the set mass along said transverse depressions.

2,168,804
COMBINATION TOILET ARTICLE
Howard L. Payson, Quincy, Mass.
Application December 21, 1936, Serial No. 117,036
1 Claim. (Cl. 132—76.2)



In a toilet article comprising a body member formed with a channel, a nail file hinged within the channel having notches formed in its edge, radial with said axis, and corresponding to the operative and inoperative positions of the file and operative to swing from the channel to operative position and means for retaining the file in operative or inoperative position comprising an element formed with a detent adapted to yieldingly engage, normal with the axis of rotation of the file, with said notches.

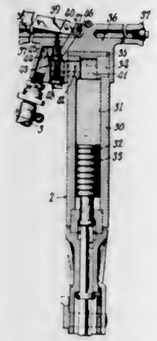
2,168,805
SIGNALING APPARATUS
John M. Pelikan, Crafton, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application May 7, 1936, Serial No. 78,421
5 Claims. (Cl. 177—324)



5. In combination, a plurality of control relays each having a contact having a normal position and an operated position, a plurality of circuits one for each control relay and each including a condenser, means effective when said control relay contacts are in their operated positions to supply energy to the associated circuit to charge the corresponding condenser, a winding of an auxiliary relay included in all of said circuits and consequently momentarily energized while any of the condensers are being charged, a plurality of rectifiers one included in each circuit and poled to prevent the associated condenser from discharging into another condenser, another rectifier bypassing said auxiliary relay winding, said other rectifier being poled to prevent flow of current in the direction to effect charging of said condensers, and a plurality of

discharge circuits one for each condenser, the contact of each of said control relays being operative when and only when it is in its normal position to establish a discharge circuit for the condenser in the circuit controlled by such control relay, each such discharge circuit including said bypassing rectifier and also including means to bypass the rectifier incorporated in the circuit of the condenser.

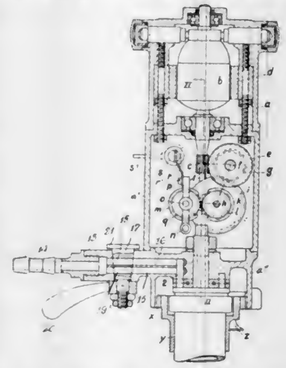
2,168,806
POWER-TRANSMITTING APPARATUS
John L. Reilly, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application March 23, 1936, Serial No. 70,229
3 Claims. (Cl. 60—54.5)



1. In an apparatus of the character described, a fluid-pressure-movable member providing a blow-striking surface, a power-movable member providing a liquid-column-actuating surface, means for moving said last-mentioned member positively rapidly in opposite directions with a definite stroke, means cooperating with said members totally to enclose and confine in all the relative positions of said members a constant quantity of liquid sufficient to fill the confined space between said members when the same are at corresponding positions in their respective ranges of movement, means for providing a wholly gaseous-pressure-constituted return force for said first mentioned member, an element disposed for actuation by said first mentioned member, and an end-seating reciprocable throttle valve between said members moving on opening towards said first mentioned member.

2,168,807
METAL-SPRAYING PISTOL
Heinrich Schlüpmann, Berlin-Niederschoneweide, Germany
Application July 26, 1935, Serial No. 33,317
In Germany July 25, 1934
2 Claims. (Cl. 91—12.2)

1. A metal spraying pistol, comprising in combination a casing, a motor at one end of said casing, a nozzle at the other end of said casing, a hollow shaft in said motor adapted to guide a metal wire to be sprayed, a train of permanently meshing gear wheels driven by said motor, a pair of feeding members operatively connected to the gear wheels and arranged to engage opposite sides of the wire for feeding it from said hollow shaft to said nozzle, means on said casing for varying the position of said feeding members with respect to the wire, a transmission gear between said train of permanently meshing gear wheels and said nozzles and arranged to rotate said nozzle, and a clutch in said transmission gear

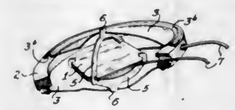


arranged to selectively disconnect and connect said nozzle with said train of gear wheels.

2,168,808
ACCELERATION OF VINYL HALIDE POLYMERIZATION
Frank K. Schoenfeld, Silver Lake Village, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application July 2, 1937, Serial No. 151,666
5 Claims. (Cl. 260—88)

1. The method of increasing the rate of polymerization of liquid vinyl chloride to form the gamma polymer which comprises effecting said polymerization in an aqueous emulsion in the presence of a per-compound catalyst at a temperature below 50° C. and a pressure below 10 atmospheres in a vessel containing free gas space, such gas space being substantially oxygen-free.

2,168,809
PIEZOELECTRIC DEVICE
Charles E. Semple, Jr., Youngstown, Ohio
Application August 5, 1935, Serial No. 34,658
12 Claims. (Cl. 179—110)

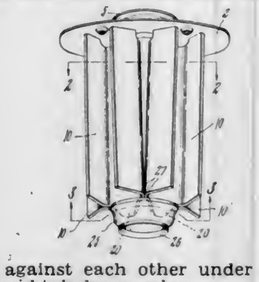


1. A piezo-electric device comprising a single "bimorph" crystal element of polygonal slab form, diaphragms arranged upon opposite sides of the crystal element, and operative means of connection between said crystal element and said diaphragms, said means of connection being applied to individual pairs of diametrically opposite points of said crystal element.

2,168,810
CHAIR BASE
Henry W. Sheldrick, Gardner, Mass., assignor to Collier-Keyworth Company, Gardner, Mass., a corporation of Massachusetts
Application January 12, 1938, Serial No. 184,633
2 Claims. (Cl. 155—138)

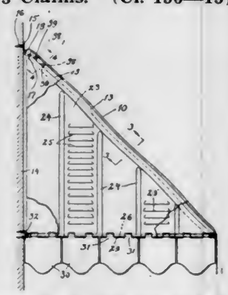
1. A chair base comprising a tubular member, a plurality of channel shaped leg-receiving sockets arranged with their webs toward said

member and surrounding the same, and means for holding adjacent end portions of said sock-



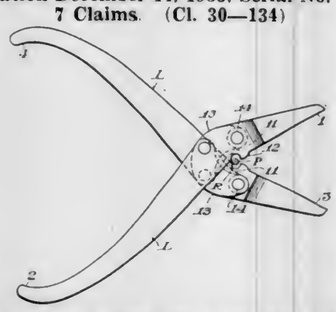
ets forced against each other under stress and secured to said tubular member.

2,168,811
AWNING
Miller S. Tyson, Canton, Ohio
Application February 23, 1938, Serial No. 192,035
3 Claims. (Cl. 156—15)



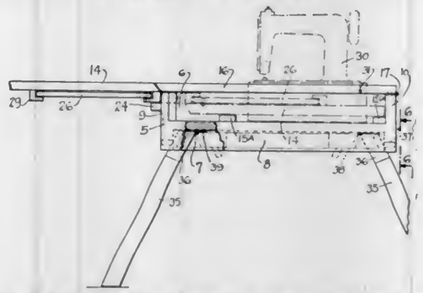
3. An awning structure comprising a rigid body panel, a rigid triangular wing panel hingedly connected to one edge of the body panel, a side apertured tube at the lower portion of the body panel and a rod at the lower portion of the wing panel for hooked engagement with said tube.

2,168,812
HAND TOOL
Henry P. Van Keuren, Watertown, Mass.
Application December 14, 1936, Serial No. 115,665
7 Claims. (Cl. 30—134)



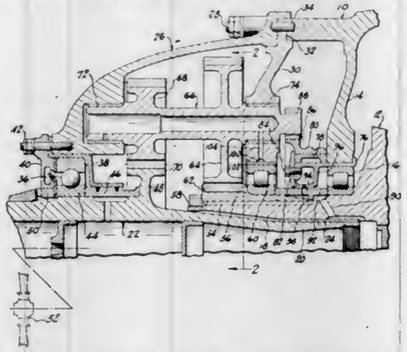
1. A tool comprising two levers each having a handle and a jaw in offset relation to said handle, said handles being in parallel and spaced planes of movement and said jaws being in the same plane of movement whereby said jaws will abut against each other when said tool is closed, and links crossing each other in parallel and spaced planes of movement intermediate the planes of said levers pivotally fastened to and between said levers, said links being so positioned with relation to each other and to said levers that said levers may be moved by a rotative movement from a position where the inner surfaces of said two jaws abut to a position where the outer surfaces of said two jaws abut.

2,168,813
FOLDING TABLE
Laura R. Vinding, Vineland, N. J.
Refiled for abandoned application Serial No. 646,234, December 8, 1932. This application May 24, 1938, Serial No. 209,748
2 Claims. (Cl. 38—105)



1. A table of the character described having a body having an upper sideless opening and ends bounding said opening, an ironing board disposed in the body opening and mounted for pivotal movement in one of said ends and arranged to be swung to an open position exteriorly of the body for use, a cover pivoted on another end of the body and constituting a table top when closed, said top having an opening therein for the reception of a sewing machine unit, a panel for closing said opening when the machine unit is removed and said table top and ironing board being operable in opposite directions at the same time for opening.

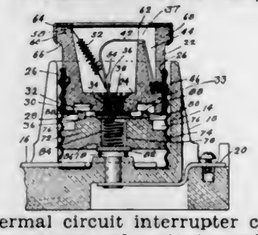
2,168,814
REDUCTION GEAR
Andrew V. D. Willgoos, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application September 22, 1936, Serial No. 101,943
4 Claims. (Cl. 74—421)



1. In an internal combustion engine having a crankcase, a crankshaft rotatably supported in said crankcase, a propeller shaft driven by

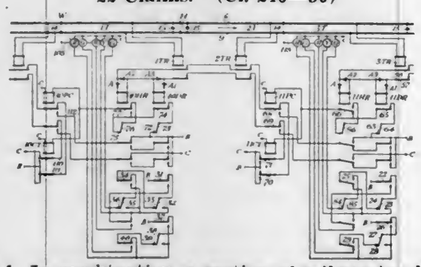
said crankshaft, and a valve cam member also driven by said crankshaft at a reduced speed, a reduction gear unit comprising a gear on said crankshaft, a gear on said propeller shaft, a gear on said valve cam member, a countershaft rotatably supported in said crankcase, and gears on said countershaft meshing respectively with said crankshaft gear, said propeller shaft gear and said valve cam member gear, and providing a speed reducing drive between said crankshaft and said propeller shaft and between said crankshaft and said valve cam member.

2,168,815
FUSIBLE CIRCUIT INTERRUPTER
Morris B. Wood, Newbury, Mass., assignor to The Chase-Shawmut Company, Newburyport, Mass., a corporation of Massachusetts
Application July 20, 1935, Serial No. 32,385
Renewed September 30, 1938
38 Claims. (Cl. 200—123)



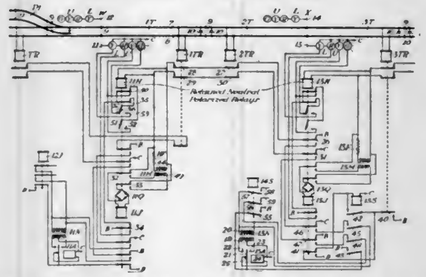
1. A thermal circuit interrupter comprising a body having an exposed contact member provided with a well, a mass of readily fusible metal in said well, a circuit terminal, a circuit controlling member imbedded in said metal mass and retained thereby in a predetermined position and connecting said contact member and terminal, spring means excluded from the circuit between said contact member and terminal and acting on said circuit controlling member to separate it from the fused metal mass, and a heating element for fusing said metal mass and releasing said circuit controlling member, said heating element being in heat imparting relation with said metal mass and in series with said contact member.

2,168,816
RAILWAY SIGNALING
Henry S. Young, Wilkinsburg, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 27, 1936, Serial No. 66,002
Renewed May 28, 1938
22 Claims. (Cl. 246—50)



1. In combination, a section of railway track, a pair of conductors for said section governed by traffic conditions in said section, two signal control relays receiving energy from said conductors, means including asymmetric units for causing said two relays to assume one condition when said conductors are supplied with direct current and for causing said two relays to assume a different condition when said conductors are supplied with alternating current, a source of alternating current and a source of direct current, and another relay controlled by said source of alternating current for connecting said conductors with said direct current source when said alternating current is absent.

2,168,817
RAILWAY SIGNALING
George R. Pflasterer, Swissvale, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application April 14, 1936, Serial No. 74,257
25 Claims. (Cl. 246—50)

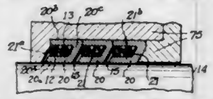


14. In combination, a stretch of railway track over which traffic moves in either direction, said track stretch being divided into a plurality of successive block sections each having a signal governing movement of trains therein in one direction, each block section having associated therewith a pair of conductors and a fast acting relay governed by traffic conditions in said section, each of said sections having associated therewith a slow acting relay energized from the conductors for such section, each of said sections having associated therewith an alternating current supply device for converting direct current into alternating current and for supplying said alternating current to a circuit through which said current may be supplied to the conductors of the adjacent block section in the rear, each of said sections having associated therewith a directional relay controlled jointly by the associated fast and slow acting relays and controlling the circuit for supplying direct current to said alternating current supply device, each of said sections having means energized from the conductors for said section and controlling the supply of direct current to the conductors of the adjacent block section in the rear, each of said block sections also having control means associated therewith and controlling the signal for such section, said control means being energized from the conductors for such section and being selectively responsive to alternating and to direct current supplied to said conductors.

2,168,818
FLUID PACKING
Robert S. Condon, Rutland, Vt.
Application November 27, 1936, Serial No. 113,065
Renewed January 10, 1939
13 Claims. (Cl. 286—26)

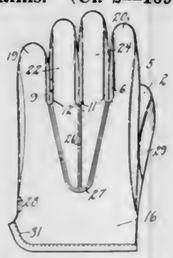
1. A fluid packing for shafts, pistons, or the like, comprising an annular flexible member adapted to be mounted in a recess formed between the shaft or piston and a fixed support;

said member having one leg adapted to contact with a fixed wall of the recess, and a second leg adapted to contact with a movable wall of the recess; means interposed between the legs for maintaining the first leg in contact with the fixed wall; and means for urging the second leg



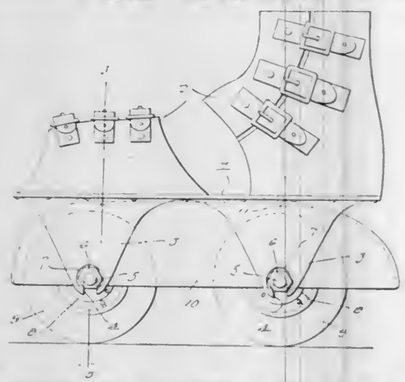
into contact with the movable wall, said maintaining means comprising compression springs expanding against the first leg; said urging means comprising tension springs contracting against the second leg; and a spring engaging member maintaining the springs in spaced relation.

2,168,819
GLOVE MANUFACTURE
Carl L. Dunn, Trion, Ga., assignor to The Trion Company, Trion, Ga., a corporation of Georgia
Application August 25, 1938, Serial No. 226,652
2 Claims. (Cl. 2—169)



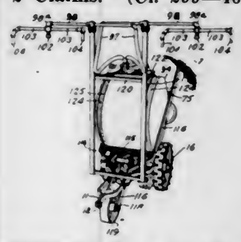
1. The method of assembling digits in a glove comprising blanking out a pair of digit sections as a unit with an extension widening therefrom wristward and with a severing line wristward of the crotch portion between the digits, providing an additional digit section with a wristward extension, and spreading the severing line by stitching the additional digit section therein to locate the additional section between the digits of the unit.

2,168,820
ROLLER SKATE
Willard H. Edstrom, St. Paul, Minn.
Application May 14, 1938, Serial No. 208,009
1 Claim. (Cl. 280—11.23)



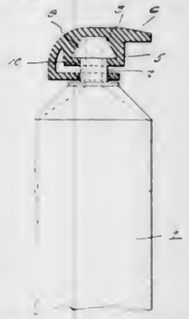
A roller skate comprising a foot plate, pairs of arms depending from said foot plate, axles removably mounted on the lower end portions of the arms, wheels journalled on said axles, and a fender of substantially U-shaped cross section removably secured to the lower side of the foot plate between the pairs of arms and enclosing the upper portions of the wheels, the opposed walls of said fender extending between the hub portions of the wheels and the arms and having notches in their lower edges accommodating the axles.

2,168,821
TRACTION SPRAYER
Frank R. Elliott, Ashland, Ohio, assignor to The F. E. Myers and Bro. Company, Ashland, Ohio, a corporation of Ohio
Application July 17, 1936, Serial No. 91,166
2 Claims. (Cl. 299—46)



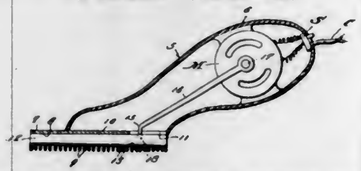
1. In combination in a traction sprayer, a frame, wheels on said frame, a tank, a pump, mechanism adapted to operate said pump, an upright attached to said frame, a discharge pipe adjustably mounted on said upright, a nozzle pipe with a spray nozzle connected to said discharge pipe and positioned to spray downwardly, a pair of spaced nozzle pipes mounted on the first nozzle pipe and having spray nozzles spaced apart from said first spray nozzle and positioned to spray upwardly, means for folding said nozzle pipes relatively to each other to selectively direct said nozzles toward differently disposed locations, and means for supplying fluid simultaneously to said nozzles.

2,168,822
CLOSURE FOR COLLAPSIBLE TUBES
Elmer C. Fink, Chadwick, Ill.
Application November 3, 1938, Serial No. 238,679
1 Claim. (Cl. 221—60)



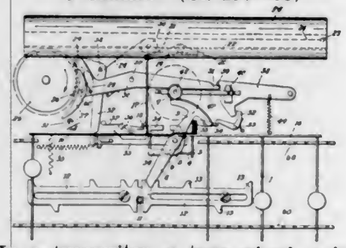
The combination with a collapsible tube body, of a reduced neck on said body, an enlarged frusto conical nozzle on the outer end of said neck, and a closure member for said nozzle comprising a strip of resilient material having an eyelet-like end sleeved onto said neck and provided with an aperture therein fitting snugly around said neck whereby said end is prevented from slipping off said neck by said nozzle, the other end of said strip being enlarged and socketed to provide a cap for closing said nozzle, said socket being frusto conical in shape and slightly smaller than said nozzle to tightly hug the latter and having a restricted mouth whereby said cap may be positioned over said nozzle with a snap action, and a finger grip tab extending from said cap for use in positioning the same.

2,168,823
DRY SHAVER
Harvey H. Hoy, Fillmore, Calif.
Application December 2, 1937, Serial No. 177,786
2 Claims. (Cl. 30—43)



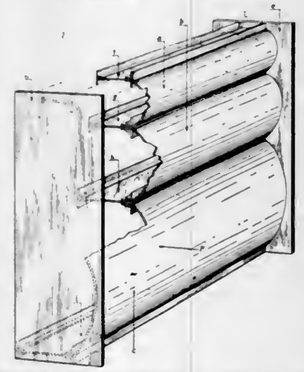
1. A dry shaver comprising a tubular stationary blade open at both ends and having its upper portion formed with a slot extending longitudinally from its rear end diagonally toward its front end, the under portion of said tubular jaw being formed with transversely extending slots spaced from each other longitudinally of the jaw and defining transverse teeth between them, a cutter bar housed in the tubular jaw and slidable longitudinally and turnable transversely therein, said cutter bar having its upper portion formed with a socket registering with the slot of the tubular jaw and its under portion formed with transverse grooves spaced from each other longitudinally of the bar and defining transverse teeth between them for cooperating with the teeth of the tubular jaw when the cutter bar is shifted longitudinally; a hollow handle extending upwardly and rearwardly from the tubular jaw and enclosing the slot thereof, a motor in said handle, and a pitman rod extending longitudinally in said handle and reciprocated from said motor, said rod having its forward end portion bent to form a depending pin passing through the diagonal slot of the tubular jaw and loosely engaged in the socket of the cutter bar for imparting reciprocating and rocking movement to the cutter bar during movement of the pin longitudinally in the diagonal slot.

2,168,824
TYPEWRITER WITH TYPE WHEEL AND NORMAL KEYBOARD
Sebastian Loewenbuck, Zurich, Switzerland
Application September 12, 1936, Serial No. 100,578
In Switzerland September 14, 1935
5 Claims. (Cl. 197—55)



1. In a typewriter, a type wheel, a board of keys which are operatively connected to the type wheel, a carriage, a spring operatively connected to the type wheel for tilting it, means connected to the carriage for putting the spring under tension, and means operatively connected to the keys for relieving the spring of its tension and allowing it to tilt the type wheel.

2,168,825
SHELL TYPE SLUICE GATE
César Jimenez Lopez, Mexico, D. F., Mexico
Application January 18, 1938, Serial No. 185,598
In Mexico December 10, 1937
3 Claims. (Cl. 61—22)



1. A sluice gate comprising side members, and a series of contacting shell-like horizontal members having curved outer surfaces and connected to the side members, the vertical depth of the shell-like horizontal members varying from the bottom member to the top member, the lower member being the largest.

2,168,826
SOUND-RECORDING DISK
Akira Miyata, Hongo-ku, Tokyo, Japan, assignor to Zaidan Hojin Rikagaku Kenkyujo, Hongo-ku, Tokyo, Japan
No Drawing. Application October 11, 1937, Serial No. 168,519. In Japan December 22, 1936
1 Claim. (Cl. 274—42)

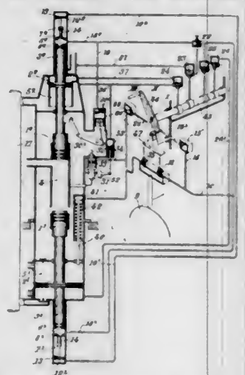
A sound recording disk of an aluminum alloy containing a metal selected from the group consisting of 0.01% to 0.3% titanium and 0.1% to 0.5% tungsten and an anodic oxide film coating thereon.

2,168,827
PROCESS OF MAKING VINYL-ACETAL RESINS
George O. Morrison and Aubrey F. Price, Shawinigan Falls, Quebec, Canada, assignors to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada
No Drawing. Application December 26, 1934, Serial No. 759,318. In Great Britain December 28, 1933
23 Claims. (Cl. 260—73)

1. A process of making substantially colourless polyvinyl resins characterized by a high percentage replacement of hydroxyl groups, which process comprises reacting on an hydrolysis product of a polyvinyl ester other than polyvinyl formate, in solution in an organic solvent, including a monohydric alcohol and the ester thereof,

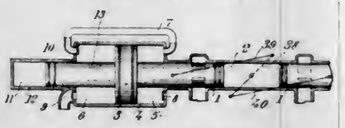
with an aliphatic acid corresponding to the polymer, with formaldehyde, in presence of a catalyst and water, the water and alcohol being present in amount between the minimum which will protect the aldehyde and the produced resin from discolouration by the catalyst and the maximum compatible with maintaining homogeneous reaction conditions when the acetal reaction exceeds 80%.

2,168,828
STARTING MEANS FOR FREE PISTON MOTOR COMPRESSORS
Raul Pateras Pescara, Paris, France, assignor to Société d'Etudes et de Participations, Eau, Gaz, Electricite, Energie, S. A., Geneva, Switzerland
Application July 11, 1936, Serial No. 90,237
In Belgium July 15, 1935
21 Claims. (Cl. 230—56)



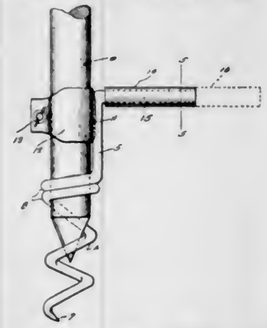
1. In a free piston internal combustion engine compressor, having at least one accumulator which serves for stabilizing the engine, means for blowing compressed air into said accumulator to start the engine, and means mechanically connected to and actuated by said free piston for gradually lowering the mean pressure in this accumulator to the normal pressure during the transition period to normal operation.

2,168,829
FREE PISTON MACHINE
Raul Pateras Pescara, Paris, France
Application July 14, 1937, Serial No. 153,648
In France July 17, 1936
17 Claims. (Cl. 230—56)



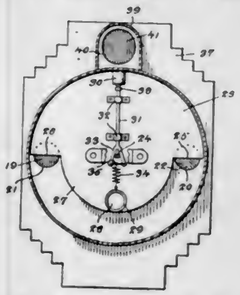
1. A free piston motor compressor unit comprising in combination, a motor cylinder, at least one motor piston adapted to slide freely in said motor cylinder, compression means comprising at least one compression cylinder and one compression piston operatively connected to said motor piston, said compression means forming a precompression chamber and a main compression chamber, the compression ratio in the precompression chamber being a fraction of the compression ratio in the main compression chamber, valve means for admitting air in the precompression chamber, one-way valve means for connecting the precompression chamber with the main compression chamber, said last valve means being operable by pressure in the precompression chamber to open communication with the main compression chamber and means for discharging the compressed air out of said main compression chamber.

2,168,830
BEACH PARASOL ANCHOR
Jerome B. Schroth, Santa Ana, Calif.
Application October 17, 1938, Serial No. 235,510
2 Claims. (Cl. 248—44)



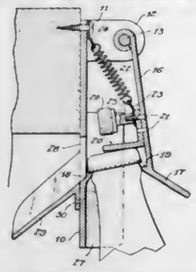
1. An anchor for beach parasol posts and the like, said anchor comprising a body of screw form provided at one end with a shank, and a post-embracing clamp mounted on the shank and extending laterally therefrom, and a combination foot bar and handle extending laterally from the shank, said clamp being provided internally thereof with means for piercing the post to secure the clamp thereon against shifting movement, and a sleeve extension for the foot bar slidably associated therewith.

2,168,831
IMPROVED TRAFFIC-SIGNAL LIGHT
Melvin O. Speir, Austin, Tex.
Application December 1, 1936, Serial No. 113,682
2 Claims. (Cl. 177—329)



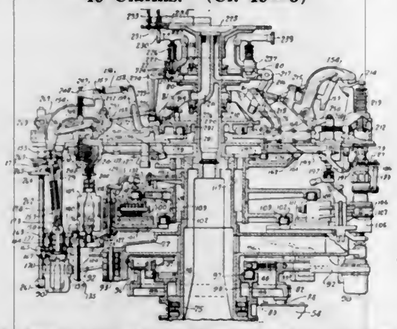
1. A traffic light including a casing, signal means in the casing, a synchronous motor in the casing for operating said means, a shaft for the motor, a rod rotated in an orbit around said shaft by said signal means and having a fork straddling the shaft, a spring holding said fork normally frictionally clutched to the shaft, and an electromagnet disposed in the casing and adapted to intercept the rod and withdraw the rod endwise to declutch the fork from the shaft to permit the signal means to be synchronized.

2,168,832
BOTTLE-CAP REMOVER
Emory P. Tiffault, Ballston Spa, N. Y.
Application March 6, 1937, Serial No. 129,503
2 Claims. (Cl. 65—46)



2. A bottle cap remover comprising a fixedly supported plate, a downwardly dependent member pivotally connected near its upper end to said plate, and movable toward and away from said plate, a stop carried on said pivoted member facing toward said plate, said plate and pivoted member each carrying projecting cap engaging portions disposed for cooperation with said stop to facilitate removal of a cap from the bottle to which it is applied when the bottle is canted either in a direction toward or in a direction away from the plate.

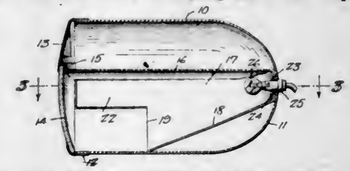
2,168,833
APPARATUS FOR GATHERING AND FORMING GLASS
Albert F. Tremblay, Toledo, Ohio, assignor to Kent-Owens Machine Company, Toledo, Ohio, a corporation of Ohio
Application November 2, 1936, Serial No. 108,691
49 Claims. (Cl. 49—5)



42. Apparatus for gathering glass comprising a plurality of glass gathering devices rotatable about a substantially vertical axis and adapted to be moved in succession over a receptacle containing molten glass at one point in their rotary travel and means for tilting the entire apparatus so as to incline the top of the vertical axis towards the glass receptacle each time a gathering device is over the receptacle, and thereafter return the device to its original position with its axis vertical.

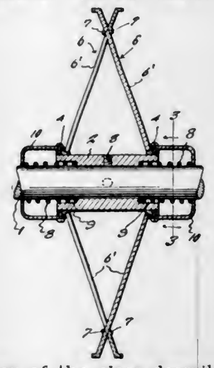
2,168,834
HEADLIGHT
James Vallandingham, Jerome, Ariz.
Application March 19, 1938, Serial No. 197,003
1 Claim. (Cl. 240—41.35)

A headlight comprising a substantially cylindrical housing, a mask disposed in the front end of the housing and covering substantially the top half area of the front end of the housing, a lens in the front end of the housing below the mask, a light source in the housing disposed slightly below the plane of the bottom edge of the mask, a reflector in the housing having a slightly arched top wall disposed in close proximity to the light source and extending forwardly in the housing to the lower edge of said mask, a downwardly and forwardly inclined oval bottom wall for the reflector terminating at substantially the central diameter of the housing, a short rounded rear wall for the reflector merging into the top wall



and into the bottom wall and formed to receive said light source, arcuate side walls for the reflector merging into the top wall, one of the side walls being cut back at the bottom portion thereof to the front edge of said bottom wall of the reflector, said bottom wall of the reflector being of less length than said top wall of the reflector, a second lens mounted in the side of the housing near the front end thereof, the cut away side wall exposing said second named lens to receive some of the reflected light rays from the opposite side wall of the reflector, and a clamp ring securing the reflector, the mask and the first named lens on said housing.
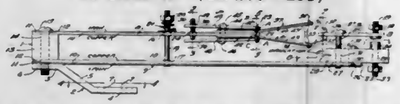
2,168,835
VARIABLE-SPEED PULLEY FOR V-BELT DRIVES
Gilbert A. Wells, New London, Wis.
Application September 19, 1938, Serial No. 230,694
3 Claims. (Cl. 74—230.17)



1. In a pulley of the class described, a sleeve provided with means to secure it fixedly on a shaft, a pair of hub members slidably mounted on said sleeve, a pair of caps each adapted to fixedly fit on a respective hub member to project away from the sleeve in alinement therewith, each hub member being provided with an end having an opening adapted to receive the shaft on which the sleeve is mounted, a pair of converging disk members each consisting of a series of radial spokes radiating from a hub and a rim, the spokes of each member passing through the spaces between the spokes of the other member,

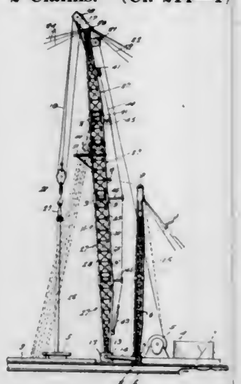
and coiled compression springs each bearing at one end against a cup end and at its other end against the adjacent sleeve end.

2,168,836
THERMOSTAT
George W. Whitehurst, Portsmouth, Va.
Application November 5, 1937, Serial No. 173,019
13 Claims. (Cl. 200—138)



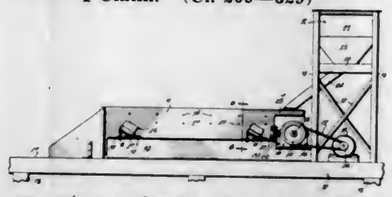
1. In a thermostat, a pair of thermostatic bars, means for anchoring one end of the bars together and for maintaining them in parallel spaced relation, one of said bars being of greater length than and extended beyond the other end of the other bar, that bar of greatest length being provided with a contact positioned beyond the bar of shortest length, and a combined snapping, snap regulating and circuit opening and closing mechanism carried by the bar of shortest length for coaction with said contact and having its operation controlled by the thermostatic movements of said bars.

2,168,837
OIL WELL RIG
Lantrip M. York, Lake Charles, La.
Application December 20, 1937, Serial No. 180,856
2 Claims. (Cl. 214—1)



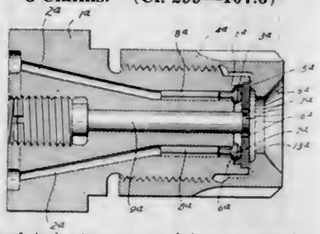
1. In an oil well rig for pulling well tubing, the combination with a portable hoisting mechanism movable toward and from the well, of a boom pivotally mounted at one end of said mechanism for vertical swinging movement and operative by said mechanism into upstanding position alongside the well to incline forwardly at a slight angle from the vertical, a forwardly offset yoke at the upper end of the boom overhanging the mouth of the well in said position of the boom, a block and tackle suspended from said yoke for attachment to the well tubing in substantially vertical alignment therewith and operative by said mechanism to pull the tubing, and a finger board vertically adjustable on said boom adjacent the upper end thereof and extending forwardly therefrom between the tackle and boom, the finger board including a platform in front of the boom, a pair of platforms upon opposite sides of the boom, respectively, in the rear thereof, and racking rods extending forwardly of the platforms of said pair upon opposite sides of the front platform.

2,168,838
APPARATUS FOR GRADING MATERIAL
Raymond E. Church, Cincinnati, and George L. Sellars, Milford, Ohio; said Sellars assignor to said Church
Application January 7, 1936, Serial No. 57,928
1 Claim. (Cl. 209—329)



A screening and separating apparatus comprising, a framework, a screen, means for supporting the screen, guide elements mounted on the framework including upwardly forwardly inclined slots, resilient inserts disposed between the guide elements and the framework for cushioning the framework against the effects of vibration occurring in the screen, guides projecting laterally from the screen and engageable in said slots, and power driven mechanism for reciprocating the screen in the slots.

2,168,839
FUEL INJECTOR
Herbert C. Edwards, Massillon, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application April 3, 1937, Serial No. 134,788
3 Claims. (Cl. 299—107.6)



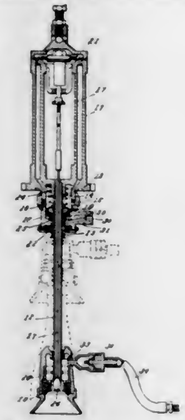
1. A fuel injector comprising a nozzle having a plurality of circumferentially spaced fuel passageways opening through the outer end thereof, valves for closing the discharge ends of the respective passageways, a cap for said end of said nozzle having an axial opening therein, a plurality of superimposed resilient annular disks having their outer marginal portions rigidly clamped to said nozzle by said cap and their remaining portions left free and bearing against said valves, and a pin rigid with and projecting axially from the outer end of said nozzle and extending into the openings in said annular disks with an annular clearance space therebetween.

2,168,840
INHIBITING CARBON FORMATION IN METAL REACTION VESSELS
Herbert P. A. Groll, Berkeley, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application July 20, 1936, Serial No. 91,566
6 Claims. (Cl. 260—683)

3. In a process for the dehydrogenation of a non-tertiary alcohol to the corresponding carbonylic compound in the presence of a brass catalyst contained in a steel reaction tube and heated to a temperature of about 500° C., the method of inhibiting the formation of non-asphaltic type carbon catalyzed by the interior surface of the reaction tube which comprises maintaining in the treated alcohol a minimum concentration of hydrogen sulphide effective to inhibit carbon formation by poisoning the interior surface of the metal reaction tube but ineffective to cause any substantial decrease in activity of the catalyst and executing said catalytic dehydrogenation reaction wherein dehydrogenation predominates and cracking is substantially obviated.

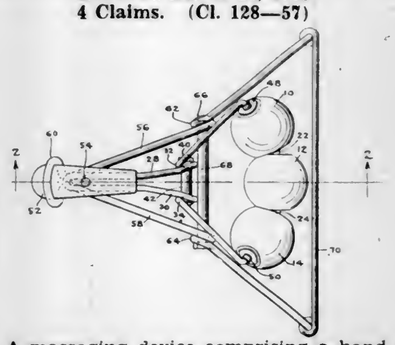
4. In a process for the catalytic dehydrogenation of a paraffin hydrocarbon to the corresponding hydrocarbon containing fewer hydrogen atoms in the presence of an activated alumina catalyst contained in a steel reaction vessel heated to a temperature of from about 400° C. to about 900° C., the method of inhibiting the formation of non-asphaltic type carbon catalyzed by the interior surface of the reaction vessel which comprises maintaining in the reaction vessel during the dehydrogenation a concentration of hydrogen sulphide effective to inhibit carbon formation by poisoning the interior surface of the metal reaction vessel but not sufficiently high to cause any substantial decrease in activity of the catalyst and executing said catalytic dehydrogenation reaction wherein dehydrogenation predominates and cracking is substantially obviated.

2,168,841
GAS FILLER VALVE
James Kantor, Chicago, Ill., assignor to The Liquid Carbonic Corporation, Chicago, Ill., a corporation of Delaware
Original application May 10, 1935, Serial No. 20,725. Divided and this application February 28, 1936, Serial No. 66,157
4 Claims. (Cl. 226—115)



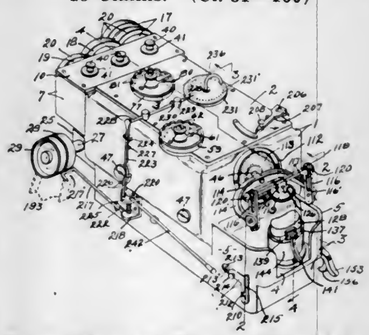
1. In a bottle filling machine, the combination with means for delivering a supply of gas under pressure to the bottle to be filled, means insertable in the bottle for delivering a supply of liquid to the bottle at a slightly greater pressure than the gas pressure, means for shutting off the gas supply pressure prior to removal of said insertable means from the bottle, and means for delivering a supply of gas to the bottle at considerably less pressure than the initial gas supply and after the supply of gas and liquid has been discontinued.

2,168,842
MASSAGING DEVICE
Charles E. Kesteven and John W. Michaelson, Minneapolis, Minn., assignors, by mesne assignments, to Miracle Massage Appliances, Inc., Minneapolis, Minn., a corporation
Application February 17, 1937, Serial No. 126,212
Renewed March 16, 1939
4 Claims. (Cl. 128—57)



1. A massaging device comprising a hand engageable member, a pair of rod like arms extending divergently with relation to each other from the front of said hand engageable member and formed into loops, a bolt passing through said loops, said arms continuing divergently from said loops and then being turned inwardly toward each other, tubular members into which said inwardly turned portions fit respectively, the inner ends of said tubular members being bent at obtuse angles and abutting each other end to end, a cylindrical member secured in one of said inwardly turned portions and fitting into the other of said portions, a resilient ball mounted on said abutting portions for rotation thereon, and resilient balls mounted on the main portions of said tubular members respectively for rotation thereon, said last mentioned balls engaging opposite side portions of said first mentioned ball.

2,168,843
LENS GRINDING AND POLISHING MACHINE
William A. Lockhart, Geneva, N. Y., assignor to Shuron Optical Company, Inc., Geneva, N. Y., a corporation of New York
Application February 2, 1937, Serial No. 123,642
19 Claims. (Cl. 51—160)



1. In a surface grinding machine of the class having a grinding lap and a work holder mounted in co-operative relation therewith, in combination, operating means producing relative movement of the grinding lap and work holder to move the work carried by the work holder with

compounded reciprocative and circular motions in continuously changing paths across the face of the lap, said operating means including a clutch element, and means for actuating said clutch element to automatically reverse the direction of the circular motion at frequent intervals.

2,168,844

PRODUCTION OF GLUTARIC ACID

Maurice H. Nelles, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California

No Drawing. Application April 3, 1936, Serial No. 72,590
6 Claims. (Cl. 260—533)

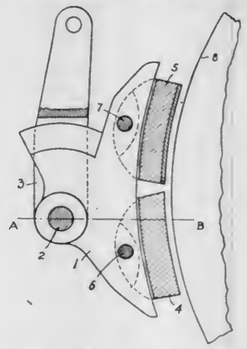
1. In a process for the production of glutaric acid, the step of partially oxidizing methyl cyclohexane in the vapor phase by means of an oxygen-containing gas.

2,168,845

VEHICLE BRAKE

Victor Nicolet and Robert Rousselet, Paris, France

Application January 6, 1938, Serial No. 183,717
In France January 13, 1937
3 Claims. (Cl. 188—33)



1. A vehicle brake mechanism, including a wheel, a brake member comprising two brake surfaces of different material, adapted to cooperate with said wheel, the rate of variation in accordance with the speed of the coefficient of friction being more negative for the material of one of the surfaces and less negative for the other surface, than the rate at which the coefficient of adhesion between the wheels and the rolling surface varies in accordance with the speed of the vehicle, force distributing arrangements being further provided for so distributing to the two brake surfaces the total application force that the joint coefficient of friction in respect to the total force of application varies in accordance with the vehicle speed at the same rate as the coefficient of adhesion.

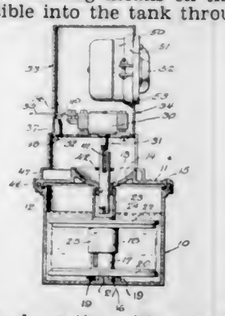
2,168,846

FLUID TREATING OF PHOTOGRAPHIC FILM

Aloysius A. Parker, Brooklyn, N. Y.

Application April 4, 1938, Serial No. 199,996
7 Claims. (Cl. 95—90.5)

1. In apparatus of the character described, the combination of a tank for containing film-treating fluids, a film holder mounted for rotation therein, a tank cover having a central filling opening, power driving means, means removably supporting the driving means on the cover, and means insertible into the tank through said filling opening and coacting with said driving means and film holder whereby to transmit driving force from the driving means to the film holder.



2,168,847

THIOAMIDES AND PROCESSES OF PREPARING THE SAME

Anderson W. Ralston, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application July 9, 1936, Serial No. 89,851
19 Claims. (Cl. 260—399)

1. An aliphatic thioamide having the structural formula $RCSNH_2$ wherein R is an alkyl radical having at least six carbon atoms in the carbon chain thereof.

2,168,848

EXTREME PRESSURE LUBRICANT

Anderson W. Ralston, Chicago, Ill., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application July 29, 1936, Serial No. 93,313
16 Claims. (Cl. 87—9)

1. A lubricant especially adapted for extreme pressure lubrication comprising a lubricant and an alkylthioamide having at least 6 carbon atoms in the alkyl radical.

2,168,849

PROCESS OF CONCENTRATING ORES

Anderson W. Ralston and William O. Pool, Chicago, Ill., assignors to Armour and Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application May 23, 1938, Serial No. 209,604
4 Claims. (Cl. 209—166)

1. In the froth flotation process of separating ore values from acid insoluble gangue, the step including subjecting the ore to froth flotation in the presence of a secondary amine flotation agent chosen from the group consisting of secondary aliphatic amines and water-soluble salts thereof, at least one of the alkyl radicals of such amine or amine salt having from six to eighteen carbon atoms.

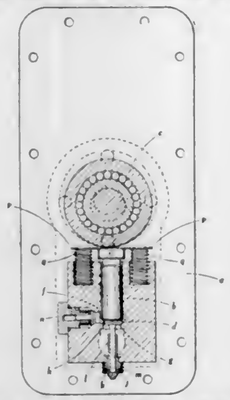
2,168,850

RECIPROCATING RAM PUMP

John Maurice Towler and Frank Hathorn Towler, Yorkshire, England

Application June 2, 1937, Serial No. 146,038
In Great Britain October 28, 1936
1 Claim. (Cl. 103—153)

A high speed reciprocating liquid pump comprising a body having a pump bore, a ram slidable within said pump bore, and substantially completely filling the same at the termination of each inward stroke, said pump bore having an inlet opening at the inner end and opposite the inner end of said ram, a conical valve seat on the inside of said inlet opening, an inwardly opening automatically operating mushroom valve cooperating with said seat and having a diameter slightly less than that of the ram, said pump bore having a discharge outlet in its side wall at the bottom thereof, a valve therefor, a high speed power driven means for rapidly moving said ram to produce a comparatively short stroke, each inward movement of which causes the bottom end of the ram to substantially contact the upper face of said mushroom valve and almost completely to cover said discharge outlet whereby the said ram almost completely empties the bore of liquid before each suction stroke by discharging the same through the discharge outlet, and spring means for causing the suction stroke.

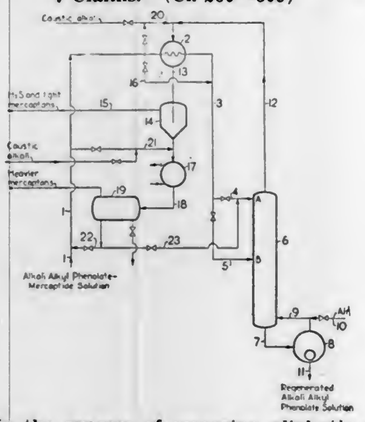


2,168,851

PROCESS FOR THE REMOVAL OF MERCAPTANS FROM MERCAPTIDE SOLUTIONS

David Louis Yabroff, Berkeley, and Ellis R. White, Albany, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

Application October 18, 1938, Serial No. 235,572
7 Claims. (Cl. 260—609)



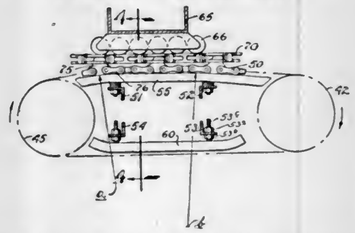
1. In the process of removing aliphatic mercaptans by steam stripping from an aqueous solution of a substantially non-volatile caustic alkali containing mercaptides and alkyl phenolates to produce a stripped solution of reduced mercaptide content and an overhead mixture comprising water, mercaptans and alkyl phenols, and condensing the overhead mixture to produce two liquid layers, a lighter layer consisting predominantly of mercaptans and a heavier aqueous layer, the improvement comprising contacting said overhead stream with an amount of caustic alkali under conditions to dissolve said alkyl phenols in the aqueous layer without dissolving therein a substantial amount of the mercaptans.

2,168,852

CATERPILLAR DRIVE FOR CONVEYERS

Jervis B. Webb, Royal Oak, and Norman H. Preble, Grosse Pointe, Mich., assignors to Jervis B. Webb Company, Detroit, Mich., a corporation of Michigan

Application December 4, 1935, Serial No. 52,804
2 Claims. (Cl. 198—203)



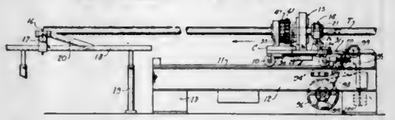
1. In a driving unit for a main conveyer chain of the type wherein an endless caterpillar chain having projecting toothed driving links is carried around two adjacent sprockets so positioned as to effect a driving contact between said endless caterpillar chain and said main conveyer chain, characterized by an arcuate shaped guide rail to define the path of said caterpillar chain in a region adjacent said main conveyer chain to effect approach and recession to and from driving contact with said chain, and guide means comprising a plurality of rollers positioned on one side of said main conveyer chain and so spaced from said guide rail as to retain said caterpillar chain and said main conveyer chain between said guide rail and said roller guide means thereby to require a definite relative path of movement for said main driving chain and said caterpillar driving chain.

2,168,853

MACHINE FOR CUTTING TUBING

Nelson D. Abbey, Toledo, Ohio

Application November 14, 1936, Serial No. 110,880
Renewed January 11, 1939
18 Claims. (Cl. 164—60)



1. In a machine for cutting measured lengths from a continuously moving tube, a base, a carriage movable back and forth on said base, means to clamp the tubing to the carriage, means on the carriage to cut the tubing, means operable independently of movement of the carriage for operating said clamping means and also said

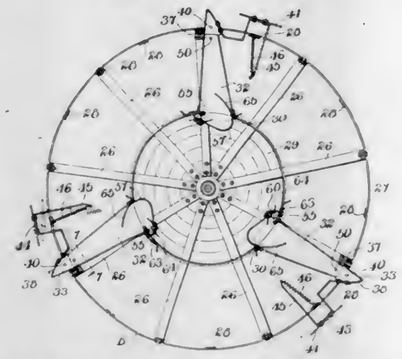
cutting means, and means controlled by said cutting means for releasing said clamping means after a predetermined cut has been made.

2,168,854
NAIL OR SPIKE
Arthur M. Agnew, Maplewood, N. J.
Application August 12, 1938, Serial No. 224,454
5 Claims. (Cl. 85—21)



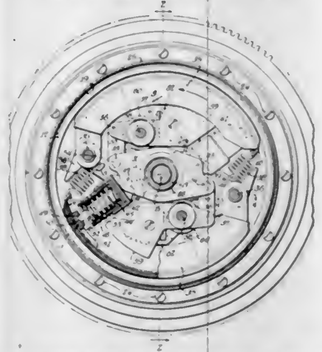
1. A nail comprising a shank having a flattened portion constituting a pointed tip, and provided with diametrically disposed barbs on the edges thereof, said shank also having a flattened portion above said barbs in a plane at an angle to that of said tip and substantially parallel with the axis of said nail, and a helical portion connecting said tip and the other flattened portion of said shank.

2,168,855
SEEDER
Manthen Aspenes, Bruce, Wis., assignor, by direct and mesne assignments, to Emil F. Pratt, Ladysmith, Wis.
Application August 7, 1936, Serial No. 94,762
5 Claims. (Cl. 111—90)



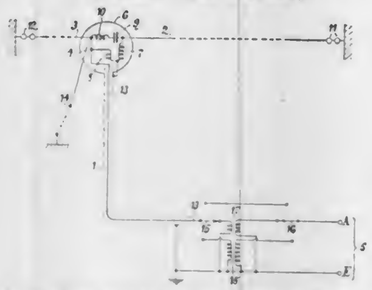
1. A seeder including a seed containing drum, means for axially supporting said drum for rotation, cups extending into said drum each having an opening leading to the interior of said drum, baffle means for supporting a predetermined number of seeds in said opening, the seeds dropping into said cups upon continuation of the rotation of the drum, and seed chutes connected adjacent said cups to receive seeds therefrom.

2,168,856
AUTOMATIC CLUTCH MECHANISM
Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application August 31, 1936, Serial No. 98,641
In Great Britain May 19, 1936
10 Claims. (Cl. 192—105)



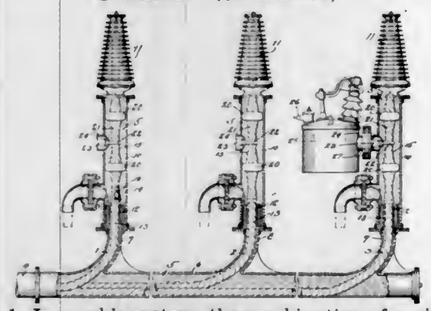
1. In a device of the character described, the combination of a rotary drive member, a driven shaft alined with the axis of rotation of said drive member, a clutch mechanism between said drive member and said driven shaft comprising drive means connected to said drive member and including a housing member, a driven member connected to said driven shaft, internal expanding clutch elements supported by said housing member and mounted within the same for engagement with said driven member, said housing member having a hub portion, an equalizer journalled on said hub portion and operatively connected to said clutch elements, and centrifugally operable members supported by said housing member and operatively connected to said equalizer to move said clutch elements into clutching engagement with said driven member.

2,168,857
WIRELESS AERIAL SYSTEM
Kenneth Heyward Barbour, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain
Application February 27, 1937, Serial No. 128,067
In Great Britain March 4, 1936
7 Claims. (Cl. 250—33)



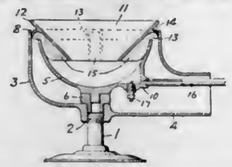
1. A wireless aerial system designed for operation over a band of relatively long wavelengths and also at a relatively short wavelength comprising in combination an aerial, a transformer for coupling said aerial to a feeder for the purpose of long wave operation and means for coupling said aerial directly to said feeder for operation at a wavelength at which said aerial is substantially an odd number of quarter wavelengths long, said means comprising a series tuned circuit resonant at the resonant frequency of said aerial, said aerial being connected to said feeder through the series tuned circuit, said transformer being effectively short-circuited by the series tuned circuit.

2,168,858
ELECTRIC CABLE SYSTEM
Charles E. Bennett, Ridgewood, N. J., assignor to The Okonite-Callender Cable Company, Incorporated, Paterson, N. J., a corporation of New Jersey
Original application June 8, 1934, Serial No. 729,607. Divided and this application September 17, 1936, Serial No. 101,244
4 Claims. (Cl. 171—97)



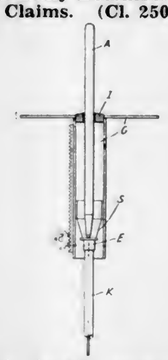
1. In a cable system, the combination of a pipe line, an insulated cable conductor disposed therein, metallic shielding tape about the cable insulation, a terminal structure for the cable comprising a pipe freely communicating with said pipe line, oil under pressure filling the pipe line and terminal structure and in which the cable is submerged, and means for insulating a length of the shielding tape from the terminal structure and from the remainder of the tape thereby to provide a condenser, with the insulated length of shielding tape constituting one plate of the condenser and the cable conductor the other plate.

2,168,859
LIQUID-FUEL-BURNING APPARATUS
William Henri Bergey, Sumneytown, Pa.
Application March 8, 1937, Serial No. 129,533
4 Claims. (Cl. 158—91)



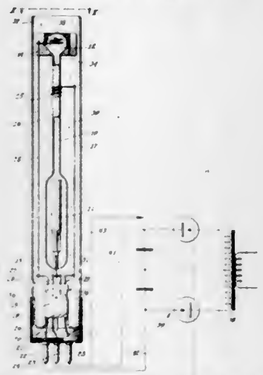
1. A burner comprising, in combination, a hollow body having a circular opening at its top and a laterally extending neck through which a draft of air enters, an open top bowl mounted in the body with the circular upper rim of its imperforate wall disposed below and concentric with the circular opening at the top of the body providing a generally annular space, means for introducing liquid fuel to and igniting it in the bowl, a hollow frusto conical open-ended deflector mounted in and spaced from the bowl with its smaller open end toward the bottom of the bowl and with the wall of its larger open end flaring above said annular space and above the rim of the body, said deflector also provided externally with downwardly extending channels closed at their tops and communicating with the body and with the interior of the bowl, said channels adapted to conduct a part of the air at said annular space down into the ignited vapor in the bowl.

2,168,860
VARIABLE-LENGTH ANTENNA
Walter Berndt, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application January 12, 1938, Serial No. 184,534
In Germany December 16, 1936
6 Claims. (Cl. 250—33)



1. A variable length antenna comprising a radiating rod, a tubular member surrounding a portion of said rod and having a counterpoise disc attached to one end, a concentric cable transmission line having its outer sheath slidably connected to said tubular member and its center conductor connected to said radiating rod.

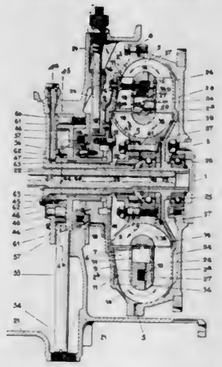
2,168,861
STROBOSCOPIC LAMP
Philip W. Blackburn, East Orange, N. J., assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 30, 1934, Serial No. 733,156
8 Claims. (Cl. 176—122)



1. A discharge device comprising a tubular sealed envelope, an ionizable medium in said en-

velope, a vitreous casing, a press integral with said casing, a base at one end of said casing, a plurality of contact members on said base, electrodes in said envelope, lead wires extending from said press supporting said envelope and connected to said contacts, said casing having an opening at the other end thereof for the passage of light rays from an end of said envelope.

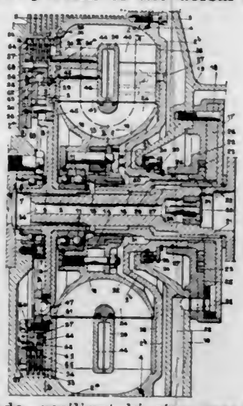
2,168,862
HYDRAULIC DEVICE FOR THE TRANSMISSION OF POWER
Dimitri Sensaud de Lavaud, Paris, France
Application December 10, 1936, Serial No. 115,087
In France December 17, 1935
7 Claims. (Cl. 60—54)



1. In an hydraulic transmission, a stationary casing, a driving shaft, a rotary pump secured to said driving shaft and provided with blades having at least a flexible portion at their inlet ends, a driven shaft coaxial with said driving shaft, a rotary turbine secured to said driven shaft and provided with blades having a rigid convex dorsal portion and a flexible concave ventral portion, a guide vane ring in the return circuit between said turbine and said pump, a ratchet mechanism to lock the guide wheel to the casing when the pump and the turbine rotate at different speeds,

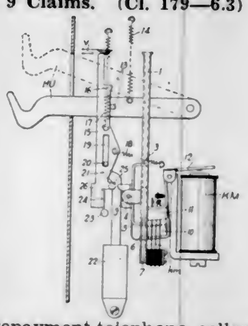
2,168,863
HYDRAULIC POWER-TRANSMITTING DEVICE
Dimitri Sensaud de Lavaud, Paris, France
Application July 7, 1937, Serial No. 152,292
In France December 19, 1936
7 Claims. (Cl. 60—54)

1. In a hydraulic power transmitting device of the kind in which, coaxially with a pump rigidly secured on a driving shaft, a turbine is arranged rigidly secured on a driven shaft coaxial with the driving shaft, and a ring provided with fixed guide blades arranged between the outlet of the turbine blades and the inlet of the pump blades, a one way clutch device, said ring, coaxial with the turbine and with the pump, being connected to a fixed frame of the device by means of said one way clutch device in order to prevent the rotation of said ring in a direction reverse to the rotation of the pump and turbine, but allow this rotation in the same direction as that of pump and turbine when the latter rotate at the same speed and the device operates under hydraulic coupling conditions, in combination a disc movable relatively to the shell of said turbine, rigid turbine blades pivoted about pins secured on the said disc, said blades having, on their dorsal face, a substantially parabolic shape and, on their ventral face, a shape of an arc of circle concentric with the apex portion of the dorsal face of the



adjacent blade, resilient biasing means and resilient returning devices in antagonism to which the blades pivot under the action of the thrust of the fluid.

2,168,864
TELEPHONE PAY STATION
Hinrich Döhle, Berlin-Haselhorst, and Heinrich Langner, Berlin-Steglitz, Germany, assignors to Telephon-Apparat Fabrik E. Zwietusch and Company, Charlottenburg, Berlin, Germany
Application February 25, 1937, Serial No. 127,658
In Germany March 14, 1936
9 Claims. (Cl. 179—6.3)

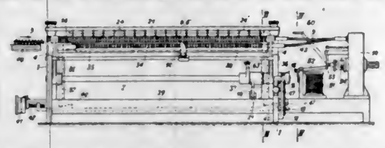


1. In a prepayment telephone, collecting means, refunding means, manually actuated means for causing the refunding means to refund the prepaid fee an interval of time after actuation thereof, said actuation of said last means effective also to prepare the collecting means for operation, and means effective only when the collecting means has been so prepared for at times causing the collecting means to collect the fee during said interval of time.

2,168,865
DEVICE FOR BINDING BOOKS AND SO FORTH
Hermann Fischer, Thalwil, Zurich, Switzerland
Application March 15, 1934, Serial No. 715,741
In Germany March 18, 1933
10 Claims. (Cl. 11—1)

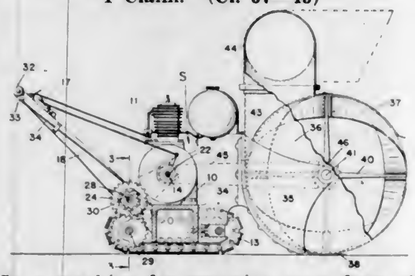
10. A device for threading a spiral binding element through the perforations of a stack of sheets

to be bound, said device comprising means for causing the advance of the successive portions of a spiral binding element along a predetermined path and thereby positively causing the successive portions thereof to conform to a predetermined contour, means for positioning the perforations of the stack in threading relation to the coils of the



advancing spiral, said advancing means comprising a pair of elements spaced so as to receive therebetween the stack to be bound and to hold the sheets of the stack against separation, said apparatus also having automatic means for stopping the advance of the spiral at a predetermined point.

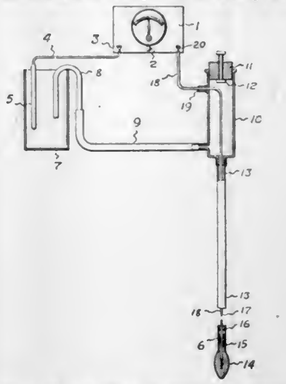
2,168,866
SNOW-REMOVING DEVICE
John Gehl, Denmark, Wis.
Application April 8, 1937, Serial No. 135,716
1 Claim. (Cl. 37—43)



In a machine for removing snow from sidewalks, a rigid frame, an engine mounted directly on said frame, ground-engaging means carried by the opposite sides of the frame driven from said engine, a rearwardly extending manipulating handle on the frame, brackets on the front end of the frame projecting forwardly in spaced parallel relation, a forwardly and downwardly extending U-shaped support secured to the brackets and arranged transversely of the frame and in front of the ground-engaging means, a cylindrical casing secured to the U-shaped support having an entrance mouth, a scraper blade on the casing, a blower pipe communicating with the casing, a rotary blower mounted within the casing above the scraper including a transversely extending shaft rotatably mounted in the casing and in the forward ends of the U-shaped support, and means for rotating the shaft from the engine.

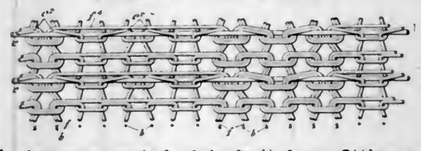
2,168,867
METHOD AND APPARATUS FOR TESTING THE CONTENTS OF THE STOMACH AND OTHER BODY CAVITIES
Henry George, III, Wilmington, Del., assignor to Takamine Ferment Company, New York, N. Y., a corporation of West Virginia
Application August 5, 1937, Serial No. 157,560
8 Claims. (Cl. 128—2)

1. Apparatus for use in determining the pH of the juices or other fluid contents of the stomach or other body cavity, channel, or orifice which comprises an external receptacle containing a buffer solution of known characteristics, an electrode immersed therein, a column of a neutral solution adapted to extend into the said cavity, channel or orifice, a bridge connecting the said column with the buffer solution, an electrode located in the said cavity in close proximity to



the inner end of the said column, a potentiometer connected to said electrodes to indicate the potential difference thereof, and a conductor extending through the said column and connecting the potentiometer with the electrode in the cavity.

2,168,868
PLAIN KNIT ORNAMENTED FABRIC
James Louis Getaz, Maryville, Tenn.
Application April 17, 1937, Serial No. 137,451
5 Claims. (Cl. 66—172)

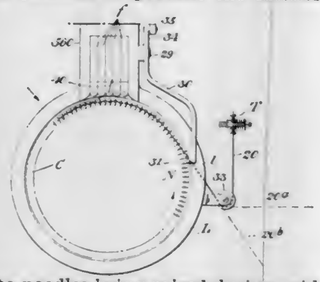


1. An ornamented plain knit form fitting and self-supporting fabric, containing courses formed of two contrasting inelastic body threads, one of which appears at certain portions of the outer face of the fabric in single thread stitches in front of floats of the other thread, said other thread being knit in plated relation with the first mentioned thread, and appearing on the face of other portions of the fabric, said body threads constituting the body of the finished fabric, certain of said courses containing an elastic thread under tension united to the fabric at spaced wales of said courses, the tension of the elastic thread being sufficient to draw the wales of said plain knit fabric together to reduce its diameter and form vertically disposed rib like ridges therein, and hold said floats of the second mentioned thread in slackened condition to permit stretching of the fabric.

2,168,869
KNITTING MACHINE
James Louis Getaz, Maryville, Tenn.
Application June 18, 1937, Serial No. 148,843
8 Claims. (Cl. 66—9)

8. A seamless hosiery knitting machine having a circle of independent needles, means for placing alternate needles at different levels in advance of the throat plate, a yarn feeding finger in advance of the throat plate located so as to effect the feed of a thread in front of the alter-

nate needles at the higher level only and below the latches thereof, means for effecting relative movement between said alternate needles and the intervening needles to bring all the needles to substantially the same level, a latch ring having portions between said yarn finger and the throat plate in position to prevent the latches of said



alternate needles being raised during said relative movement of the needles to the same level, by the frictional engagement of the intervening needles with said thread, and to insure the interlacing of said thread with the needles, and means for feeding another thread to the hooks of all the needles.

2,168,870

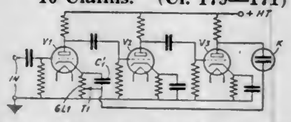
THERMIONIC VALVE CIRCUITS

Ernest Frederick Goodenough, London, England, assignor to Radio Corporation of America, a corporation of Delaware

Application March 29, 1935, Serial No. 13,700

In Great Britain March 29, 1934

10 Claims. (Cl. 179—171)



10. In an electrical translating system comprising a thermionic amplifier with an input and an output circuit, and an electrical capacitative translating device connected to said output circuit, the method of compensating for frequency distortion comprising impressing signal energy upon the input circuit, deriving a portion of the output energy actuating the device of predetermined magnitude, and impressing the derived portion upon said input circuit in phase with the signal impulses.

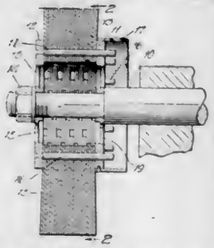
2,168,871

VENTILATED BUFF

Louis M. Hague, Rumson, N. J., assignor to Hanson-Van Winkle-Munning Company, Matawan, N. J., a corporation of New Jersey

Application April 29, 1939, Serial No. 270,733

6 Claims. (Cl. 51—193)



1. A buffing wheel comprising in combination a ventilating hub for admitting air into the interior of the wheel, and a plurality of buff segments mounted on said hub and circumferentially spaced from each other to provide air outlets leading from the interior of the wheel.

2,168,872

HIGH VOLTAGE AND HIGH VACUUM DISCHARGE DEVICE

Samuel Hirsch, New York, N. Y., assignor to Arthur Mutscheller, New York, N. Y.

Application October 2, 1934, Serial No. 746,528

Renewed January 23, 1939

5 Claims. (Cl. 250—146)



1. An envelope of high dielectric substance being highly evacuated and having a pair of discharge electrodes sealed therein, a pair of shields of dielectric substance dielectrically integrally in contact with and mounted on the outside of said envelope, each of said shields being concentric with one of said electrodes and concavely outwardly curved from said envelope whereby said shields constitute barriers to lines of force outside said envelope.

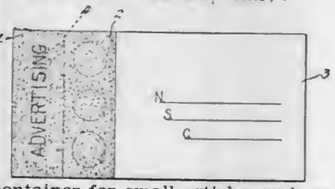
2,168,873

DRY-SEALING CONTAINER

Albert I. Cohen, Chicago, Ill., now by judicial change of name Albert I. Kegan

Application August 22, 1934, Serial No. 740,885

2 Claims. (Cl. 229—92.9)



1. A container for small articles such as coins and the like, including a card having adjacent portions arranged to enclose said article when opposed to each other, each of said portions being coated with a composition having the capability of causing said portions to adhere to each other upon contact, but not to articles placed therebetween.

2,168,874

RADIO RECEIVER

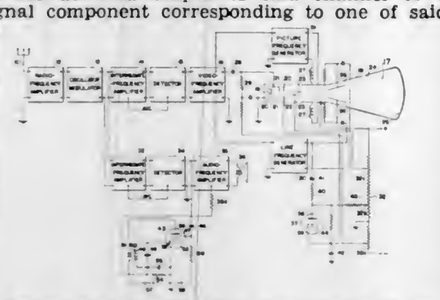
Harold M. Lewis, Great Neck, and Madison Cawein, Manhasset, N. Y., assignors to Hazeltine Corporation, a corporation of Delaware

Original application October 4, 1935, Serial No. 43,548. Divided and this application April 13, 1937, Serial No. 136,534

9 Claims. (Cl. 250—20)

1. A receiver for reproducing sound from desired audio-frequency modulated-carrier signals and subject to the reception of undesired signals having periodically recurring modulation components of predetermined characteristics, comprising a single signal-translating channel for selecting, amplifying, and detecting any one of a plurality of said desired signals and discriminating against said other signals, means for converting the detected signal into sound, and

means selectively responsive only to the presence in the detected output of said channel of a signal component corresponding to one of said



undesired signal modulation components of predetermined characteristics for modifying the transmission characteristics of said receiver.

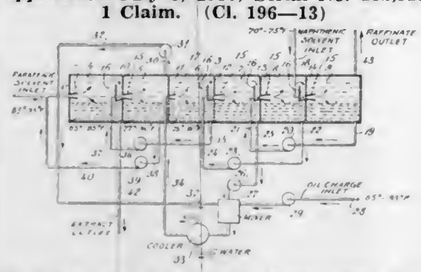
2,168,875

METHOD OF TREATING OILS

Henry D. Noll, Beaumont, Tex., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

Application July 8, 1937, Serial No. 152,513

1 Claim. (Cl. 196—13)



In the solvent treatment of petroleum lubricant fractions by counterflowing paraffinic and naphthenic solvents through a plurality of extractive stages and introducing oil to an intermediate stage of the series, the improvement which comprises maintaining the oil introduction stage and all stages prior thereto in the direction of paraffinic solvent flow at a temperature level substantially higher than that obtaining in the stage next subsequent and in any other following stage in the direction of paraffinic solvent flow, while maintaining the same rate of paraffinic solvent flow throughout all stages of the series, and by-passing naphthenic solvent and extract from the first stage subsequent to oil introduction to the first stage prior to oil introduction, whereby enhanced separation of oil into paraffinic and non-paraffinic oil constituents may be obtained for a given ratio of solvents.

2,168,876

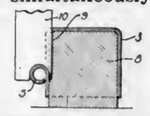
METHOD OF FABRICATING COSMETIC HOLDERS

Edward Noyack, Seymour, Conn., assignor to The Risdon Manufacturing Company, a corporation of Connecticut

Application May 8, 1936, Serial No. 78,569

1 Claim. (Cl. 113—116)

The method of fabricating an elevator cup for a cosmetic holder comprising forcing a combined shearing and curling tool clear through portions of a transverse wall included in the bottom part of the cup and through the side wall of the cup; and continuing the movement of the tool lengthwise of the cup toward, but not up to, the open end of the cup, simultaneously to cut from the



sidewall a longitudinal strip, the base of which is integral with the sidewall, and curl the strip on itself to form a cup-operating projection.

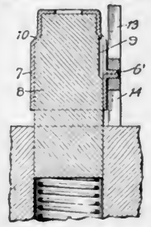
2,168,877

METHOD OF FABRICATING COSMETIC HOLDERS

Edward Noyack, Seymour, and Gunnard P. Peterson, Naugatuck, Conn., assignors to The Risdon Manufacturing Company, a corporation of Connecticut

Application May 8, 1937, Serial No. 141,520

4 Claims. (Cl. 113—116)



1. The method of fabricating an elevator cup for a cosmetic or like holder comprising cutting a longitudinal strip out of the side wall of an elevator cup beginning at its bottom wall and curling the strip into a relatively open external member, and consolidating said member into a compact operating lug or stud.

2,168,878

CATALYTIC HYDROGENATION OF THE KETO GROUP OF CALCIUM 5-KETO-GLUCONATE AND PRODUCT

Richard Pasternack, Brooklyn, and Ellis V. Brown, Jamaica, N. Y., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a corporation of New Jersey

No Drawing. Application July 20, 1938, Serial No. 220,330

3 Claims. (Cl. 260—535)

1. As a new composition of matter, a mixture of calcium l-idonate and calcium d-gluconate, soluble in any practical proportion of water.

2,168,879

PREPARATION OF STABLE CONCENTRATED SOLUTIONS OF THERAPEUTICALLY USEFUL CALCIUM COMPOUNDS

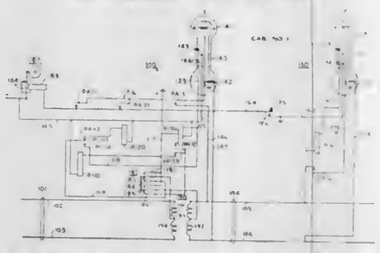
Richard Pasternack, Brooklyn, and Ellis V. Brown, Jamaica, N. Y., assignors to Charles Pfizer & Company, Brooklyn, N. Y., a corporation of New Jersey

No Drawing. Original application June 20, 1938, Serial No. 220,330. Divided and this application March 14, 1939, Serial No. 261,770

4 Claims. (Cl. 167—68)

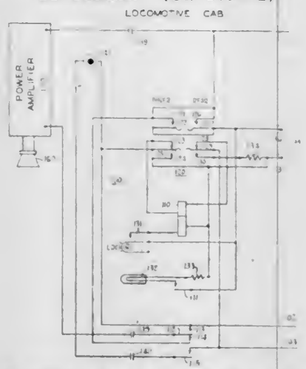
2. Process of stabilizing an over-saturated solution of calcium gluconate which comprises adding to the calcium gluconate solution the calcium aldonate mixture resulting from the hydrogenation of calcium 5-keto-gluconate.

2,168,880
TELEPHONE SYSTEM
Edward S. Peterson, Elmwood Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 10, 1937, Serial No. 179,124
23 Claims. (Cl. 179—1)



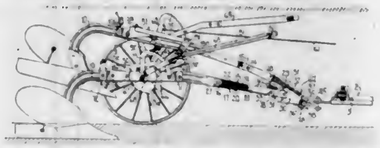
1. In a signalling system, a plurality of signalling stations, a line circuit interconnecting said stations, a signal device at each of certain of said stations, a switch at each of said stations, means responsive to the operation of one of said switches for causing the energization of all of said signal devices, and means responsive to the operation of another of said switches for causing the deenergization of all of said signal devices.

2,168,881
TELEPHONE SYSTEM
Edward S. Peterson, Elmwood Park, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application December 10, 1937, Serial No. 179,125
14 Claims. (Cl. 179—1)



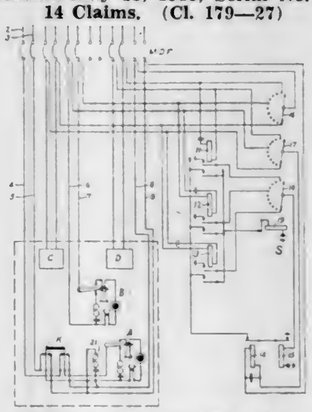
1. In a telephone system, a pair of telephone stations each including transmitting means and receiving means, a line circuit extending between said stations, said line circuit comprising a first conductor, a second conductor and a common conductor, a manually operable switch at one of said stations, means including said switch for connecting the transmitting means at said one station between said first conductor and said common conductor and for connecting the associated receiving means between said second conductor and said common conductors, a second manually operable switch at said one station, a manually operable switch at the other of said stations, a relay at said other station, circuit connections controlled by said relay for connecting the transmitting means at said other station between said second conductor and said common conductor and for connecting the associated receiving means between said first conductor and said common conductor, whereby separate and substantially independent channels may be provided for transmitting voice frequency currents between said stations in the respective two directions of transmission, a circuit including the switch at said other station for energizing said relay, a second circuit for energizing said relay, said second circuit including said second switch and said second and common conductors, a signal device at each of said stations, means including a circuit comprising said first conductor for energizing the signal device at said one station, a circuit for energizing the signal device at said other station, and means comprising said relay for completing said last-named circuit.

2,168,882
TWO-WAY PLOW
Julius Peterson, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 16, 1936, Serial No. 101,018
33 Claims. (Cl. 97—72)
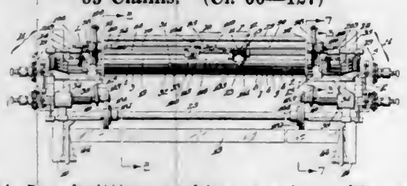


1. In an agricultural machine, a pair of separate units pivotally connected together at their forward ends and movable generally vertically relative to each other, ground engaging supporting means at one side of each unit, each unit with its supporting means being individually unstable, and means disposed rearwardly of the pivotal connection between the forward ends of said units for connecting said units together so as to accommodate said relative vertical movement but preventing relative swinging movement of either unit relative to the other about a generally longitudinal axis.

2,168,883
SECRETARIAL ANSWERING SYSTEM
Seth Peterson, Oak Park, and Jules E. Gonseth, Jr., Glen Ellyn, Ill., assignors, by mesne assignments, to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application May 13, 1935, Serial No. 21,100
14 Claims. (Cl. 179—27)



1. In combination, a plurality of lines, an alternating current relay connected to each line, said relays being responsive to ringing current received over the associated lines, another line, a switching device, and means whereby any one of said relays may control said device to establish a connection between its associated line and said other line.

2,168,884
YARN-FEEDING MEANS
Max Richter, West Reading, Pa., assignor to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania
Application July 21, 1937, Serial No. 154,767
35 Claims. (Cl. 66—127)



24. In a knitting machine, a reciprocable member, a driver member yieldably connected thereto, a yarn carrier to be driven by said reciprocable member through said driver member, means operating entirely by, and between, the driver and the carrier for driving the carrier by the driver in each direction of reciprocation and adapted to release the driver from the carrier solely by the pull of the driver member when the carrier is held, and carrier holding and releasing means operative at the ends of each carrier stroke.

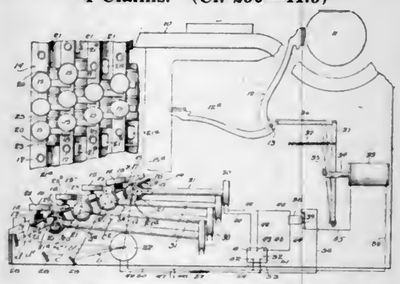
33. In a knitting machine, in combination, a reciprocable drive element, a reciprocable yarn carrier element to be driven by said driver element, means for establishing a driving connection between said elements, and means independent of said driver element for imposing an impulse on said yarn carrier element in the direction of, and in addition to, its impulse from said driver element at the beginning of each stroke of said driver element in each direction irrespective of the position of the yarn carrier element at the beginning of its stroke.

2,168,885
GRADE INDICATOR
Harry C. Rickenbach, Pittsburgh, and William E. Herman, Crafton Heights, Pa.
Application April 7, 1938, Serial No. 200,718
1 Claim. (Cl. 33—206)



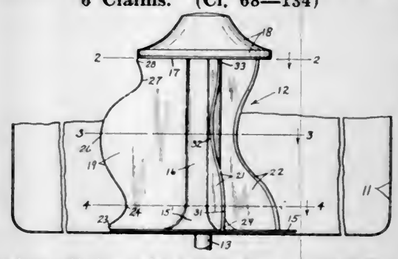
A grade indicator of the character described, comprising the combination of an oblong horizontally disposed dial plate provided with a longitudinally extending slot having an upward curvature, a transparent panel mounted against the front face of said plate, a casing mounted against the rear face of said plate and providing the rear wall of said slot, said casing including a peripheral flange overlapping the peripheral edge of said plate and overlapping and engaging the peripheral edge margin of said panel for securing said plate between the latter and said rear wall, a ball member shiftably mounted in said slot on the lower wall of the latter, and means fixed to said casing for supporting the latter at an angle from the vertical to cause the contact of said ball with said rear wall to retard the movements of said ball in said slot.

2,168,886
ACTUATING MEANS FOR TYPEWRITERS AND OTHER MECHANISMS
Daniel A. Roberts, Chicago, Ill.
Application August 24, 1938, Serial No. 226,604
4 Claims. (Cl. 250—41.5)



2. The combination with a manually actuated key having a hollow bearing member, a stationary bearing member in which the hollow bearing member of said key is rotatably mounted, and a prism mounted in the hollow bearing member of the key at the axis of rotation, said hollow and stationary bearing members having registering light openings, of a light source, a light sensitive cell, upon which light rays are to be projected from said source through said prism when the key is depressed, means excluding outside light from said cell, and an electric circuit controlled by said cell.

2,168,887
AGITATOR FOR WASHING MACHINES
Charles C. Scheele, Syracuse, N. Y., assignor to Easy Washing Machine Corporation, Syracuse, N. Y., a corporation of Delaware
Application March 5, 1936, Serial No. 67,333
6 Claims. (Cl. 68—134)

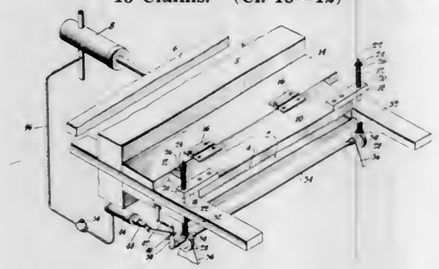


1. An agitator adapted to be mounted for operation in a vat containing clothes and cleansing fluid, said agitator comprising a base, a central portion extending upward from the base substantially to the normal surface level of cleansing fluid in the vat, a plurality of blades extending radially outward from the post, and a plate mounted on the top of the blades and marking the normal surface level of cleansing fluid, at least two of said blades being of dissimilar shape, one of said blades being of substantial width at substantially its vertical center and of lesser width at the top and bottom, and another of said blades being narrow at substantially its vertical center and wider at its top and bottom.

2,168,888
AZO PIGMENT PRODUCTION
Alfred Siegel, Roselle, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application November 17, 1937, Serial No. 175,035
10 Claims. (Cl. 134—58.5)

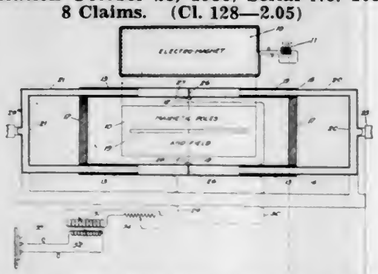
1. In a process for producing a pigment comprising an intimate combination of water insoluble calcium salt of an acidic azo dyestuff and a substantial amount of a metallic rosinate, the step of effecting precipitation of said pigment in the presence of a sulfate of an aliphatic alcoholic compound containing at least 8 carbon atoms in its alcoholic radical.

2,168,889
METHOD AND APPARATUS FOR EXTRUDING MATERIALS
Edwin H. Thomas, Newark, Del., assignor to Bond Manufacturing Corporation, Inc., a corporation of Delaware
Application September 2, 1936, Serial No. 99,102
13 Claims. (Cl. 18—12)



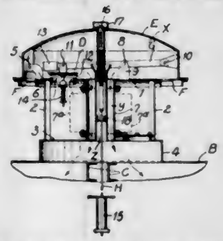
1. Apparatus for extruding material comprising means defining a passage through which the material is extruded, means for presenting variable frictional resistance to movement of material through said passage, power means for forcing material through said passage and control means operatively connecting said power means and said friction presenting means for varying the amount of frictional resistance presented by said friction presenting means in response to the variations in the force required to actuate said power means.

2,168,890
CARDIAC RECORDING APPARATUS
Harry Weiss, New York, N. Y.
Application October 28, 1936, Serial No. 108,004
8 Claims. (Cl. 128—2.05)



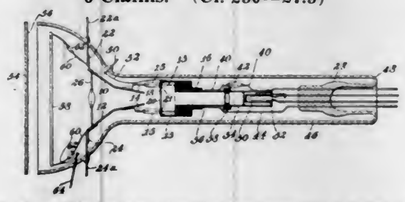
1. In an apparatus of the character described, a string galvanometer including means for producing a magnetic field within which the string is disposed, means for bodily moving the string in said field, means for recording such movements of the string as well as vibratory movements thereof, and pressure-creating means connected to a blood-pressure cuff and causing the bodily movements of the string co-incidentally with the application and release of pressure on the arm of the wearer of the cuff.

2,168,891
CONTROL MECHANISM FOR GAS AND LIQUID STORAGE APPARATUS
John H. Wiggins and Donald E. Larson, Chicago, Ill., assignors, by direct and mesne assignments, of one-half to said Wiggins and one-half to Chicago Bridge & Iron Company, a corporation of Illinois
Application June 21, 1937, Serial No. 149,462
16 Claims. (Cl. 220—85)



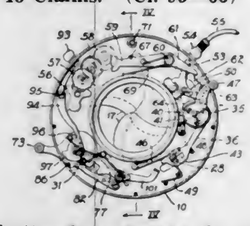
1. A storage apparatus of the general kind described, comprising a container whose gas space is provided with a movable part that is adapted to move to vary the volume of said gas space, a gas chamber carried by said movable part and provided with a prime mover formed by a rockable part of said chamber that is capable of moving relatively to the said movable part of said container, a hollow member for connecting said gas chamber with the gas space of the container, a venting means for said gas chamber, and apparatus positioned inside of said gas chamber and hollow member for actuating said venting means.

2,168,892
CATHODE RAY DEVICE
Vladimir K. Zworykin, Philadelphia, Pa., assignor to Radio Corporation of America, a corporation of Delaware
Application April 28, 1934, Serial No. 722,863
6 Claims. (Cl. 250—27.5)



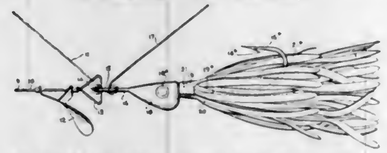
3. A cathode ray device comprising a tube provided with a screen, means disposed within said tube for developing a ray of electrons and directing the same at said screen, a pair of plates disposed within said tube between said screen and said ray-developing means for deflecting the ray, a collar of insulating material engaging the electron-emitting end of said ray-developing means and supporting the adjacent ends of said plates, and an apertured diaphragm supported by said collar and disposed between said collar and said ends of said plates with the aperture in line with the axis of said ray-developing means.

2,168,893
CAMERA
Thomas McG. Aiken, Pittsburgh, Pa.
Application February 11, 1938, Serial No. 189,997
13 Claims. (Cl. 95—63)



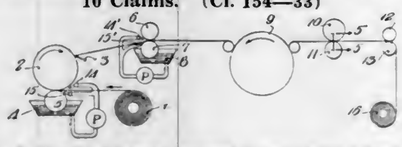
1. In a shutter for cameras, the combination with a shutter blade having a normal closed position and an open position, of a pair of movable operating members therefor, means pivotally connecting said blade to each of said members for swinging movements in arcuate paths, through movement of either member, means associated with each of said members whereby either of said members can be operated independently of operation of the other member, to impart opening and closing movements to said blade, and means for preventing shutter-operating movement of one of said members while the other member is being operated.

2,168,894
ARTIFICIAL FISH BAIT
Johnson A. Arbogast, Akron, Ohio
Application April 28, 1938, Serial No. 204,827
2 Claims. (Cl. 43—28)



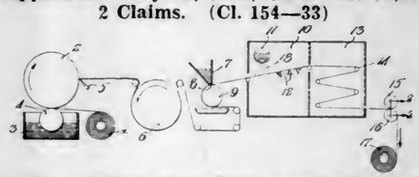
1. An artificial bait comprising a connector for a bait body provided wtih a triangular loop at its rear end, the vertex of the triangle being at the rear end of the connector, the sides of the triangle diverging above and below the horizontal and the base of the triangle extending vertically and having a loop therein in the central portion thereof, a bait body having a loop at the forward end thereof connected to said central loop, the base of said triangle providing stops for limiting vertical tilting or cocking of said bait body said bait body being provided with a hook and being of such mass so distributed as to cause the hook to ride with its prong up.

2,168,895
CREPED PAPER AND METHOD OF MAKING SAME
Benjamin Asnes, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application July 8, 1936, Serial No. 89,550
10 Claims. (Cl. 154—33)



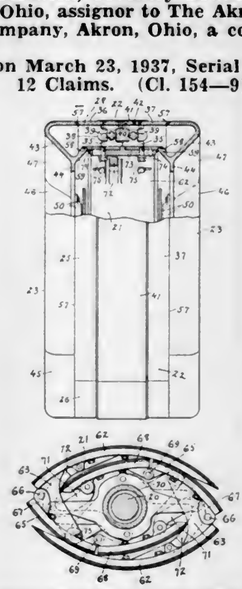
1. A sheet of paper creped to produce alternate ridges and valleys with mica flakes adhering to the exterior surfaces of the ridges in different angular positions relatively to the plane of the paper, the paper being corrugated transversely of said ridges.

2,168,896
METHOD OF CREPING AND COATING PAPER
Benjamin Asnes, Framingham, Mass., assignor to Dennison Manufacturing Company, Framingham, Mass., a corporation of Massachusetts
Application July 16, 1936, Serial No. 90,879
2 Claims. (Cl. 154—33)



1. The method of coating paper which comprises creping the paper to produce alternate ridges and valleys, applying adhesive to the crepe paper, coating the paper with glistening flakes large enough substantially to bridge the aforesaid valleys, and then stretching the paper transversely of the aforesaid ridges to widen the valleys and thereby accentuate the difference in degree of angularity of the respective flakes with respect to the plane of the paper.

2,168,897
TIRE BUILDING DRUM
Henry C. Bostwick, Coventry Township, Summit County, Ohio, assignor to The Akron Standard Mold Company, Akron, Ohio, a corporation of Ohio
Application March 23, 1937, Serial No. 132,500
12 Claims. (Cl. 154—9)

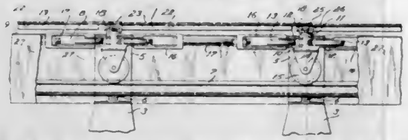


2. A tire-building drum comprising independently collapsible concentric drum bodies of which the outer is demountably supported on the inner one, and independently collapsible bead rings fitted on the ends of said bodies.

11. A form for semi-flat tire-band building comprising a rotary segment support, and a drum body having two similar groups of overlapping and underlapping segments pivotally and sym-

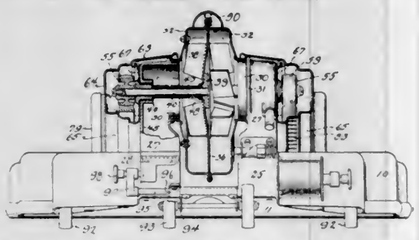
metrically mounted on opposite sides of said support, and collapsible in a double convolute to reduce the effective outer circumference of the drum, certain opposite segments being articulated to obtain a minimum collapsed circumference.

2,168,898
SINGLE WHEEL MOLD CONVEYER
Alfred C. Christensen and Axel G. Granath, Chicago, Ill., assignors to Herbert S. Simpson, Chicago, Ill.
Application April 18, 1938, Serial No. 202,720
8 Claims. (Cl. 198—181)



1. A mold conveyer mechanism comprising in combination a continuous single rail track, and a conveyer unit supported thereon, said conveyer unit comprising a plurality of spaced carriage yokes, a supporting wheel on each of said carriage yokes tracking on the single rail track, guide rollers supported on each of said carriage yokes, link members connected with each of the carriage yokes, adjustable takeup connections between the links of adjacent carriage yokes, mold supports seated on the carriage yokes, and guides on opposite sides of the conveyer unit in cooperating relationship with the guide rollers.

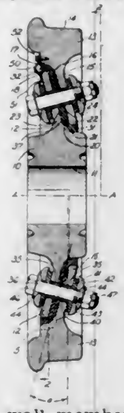
2,168,899
VACUUM CLEANER
Dewey M. Dow, Toledo, Ohio, assignor to Air-Way Electric Appliance Corporation, Toledo, Ohio, a corporation of Delaware
Application April 13, 1936, Serial No. 74,012
15 Claims. (Cl. 15—6)



1. In a vacuum cleaner, a suction chamber beginning with a carpet engaging mouth and terminating in a pair of spaced opposed axially aligned outlets, a fan casing having a pair of oppositely facing inlets associated with said outlets and enclosing a shaft for a fan, a pair of sleeves carried respectively by remote wall regions of the chamber and projecting toward each other through said outletts and inlets into the fan casing, their inner ends spaced apart, portions of the shaft being sheathed in said sleeves in the regions of passage of dust laden air streams, and a fan impeller mouted on said shaft between said spaced ends of the sleeves.

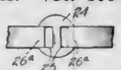
2,168,900
NONRESONANT CAR WHEEL
Burdick H. Eaton, Los Angeles, Calif.
Application January 21, 1936, Serial No. 60,037
9 Claims. (Cl. 295—11)

1. A wheel of the character described, including: an inner portion having a radially outwardly extending wall member; an outer annular portion disposed around said inner portion, having a radially inwardly projecting wall member overlapping said outwardly extending wall member, there being aligned openings through said wall members, the axes of said openings extending in the general direction of the axis of said wheel; a rubber wall disposed between the overlapping



portions of said wall members and having the surfaces thereof in non-sliding engagement with said overlapping portions of said wall members; bolt means extending through said openings, said bolt means having enlargements on the ends thereof; washers supported in ball and socket relation to said enlargements to permit swinging movement of said bolt means; and nonresonant plate members between said washers and the faces of said wall members.

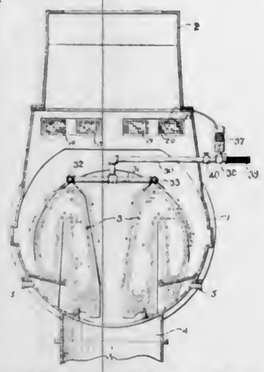
2,168,901
COVERED JOINT PISTON RING
Joachim Giardino, West New York, N. J.
Application July 28, 1937, Serial No. 156,085
3 Claims. (Cl. 309—47)



1. A sealing device of the class described comprising a split ring, the split in said ring forming relatively movable end portions, means on said end portions forming a bridging and sealing element between said relatively movable ends, preventing a blow-by across the outer surface of the ring where the ends thereof are separated, said means comprising a substantially cylindrical part of a thickness at least equal to the thickness of the ring ends with the outer surface of said cylindrical part substantially flush with the surfaces of the ring ends forming a bridge completely covering and spanning the spaced ends of the ring, and said cylindrical part being recessed at opposite sides and through inner, outer and side surfaces thereof to receive the ends of said split ring and to form a web extending from the front surface to the inner surface of said part.

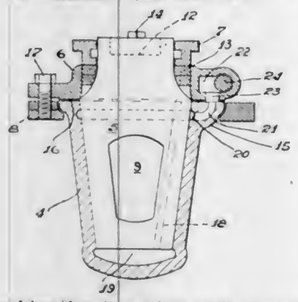
2,168,902
SURFACE CONDENSER
John F. Grace, Arlington, N. J., assignor to Worthington Pump and Machinery Corporation, Harrison, N. J., a corporation of Delaware
Application July 8, 1938, Serial No. 218,115
15 Claims. (Cl. 257—2)

5. The method of regulating the absolute pressure at the exhaust steam inlet of a surface condenser to maintain predetermined heating conditions near the exhaust steam inlet under wide variances in the quantity of steam delivered to the condenser, which consists in introducing air into the condenser to reduce the vacuum therein, retard the flow of exhaust steam through the condenser and build up the absolute pressure at the exhaust steam inlet in inverse proportion to the reduction in the quantity of exhaust steam delivered to the condenser, and controlling the admission of air into the condenser by the variances of the absolute pressure at the exhaust steam inlet.



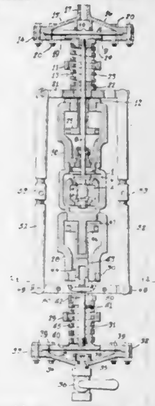
11. The combination with a surface condenser having a shell, an exhaust steam inlet, a bank of cooling water conducting tubes in the shell, and an air pump for withdrawing air from the shell, of a feed water heater in said shell for heating water by exhaust steam in the condenser, an air inlet pipe extending into said shell and having its inlet open to atmosphere, said pipe having a plurality of outlets arranged to discharge and distribute a blanket of air into the condenser for raising the absolute pressure within the shell, and means actuated by the temperature of feed water discharged by said feed water heater for controlling the delivery of air to the condenser through said air inlet pipe.

2,168,903
LUBRICATED PLUG VALVE
Oystein Jacobsen, Dayton, Ohio, assignor to The Duriron Company, Inc., a corporation of New York
Application April 14, 1938, Serial No. 201,993
4 Claims. (Cl. 251—93)



1. In combination in a plug cock, a casing open at its upper end which is provided with a lateral flange and having a tapering seat and a chamber for lubricant below the seat, a tapering valve plug with a stem at its upper end fitting the seat, a groove being provided longitudinally of the meeting surfaces of the plug and seat opening at its lower end into said chamber, a communication in the wall of the casing leading from the upper end of said groove upward through said lateral flange to the upper surface thereof, a cap for the casing seated on said flange and provided with a stuffing box for the stem of the valve plug, means for clamping the cap to said flange, a lubricant chamber comprising a cavity located in the cap, a communication being provided from said chamber registering at its lower end with the end of said first communication, and a screw threaded through the wall of said last chamber and adapted, when screwed inward, to apply pressure to the lubricant in the chamber so as to move the plug endwise with respect to its seat, said screw extending transversely of the radius of the plug.

2,168,904
AUTOMATIC FUEL PUMP REGULATOR
Herbert J. Kent, Berkeley, Calif.
Application February 17, 1937, Serial No. 126,189
8 Claims. (Cl. 236—26)

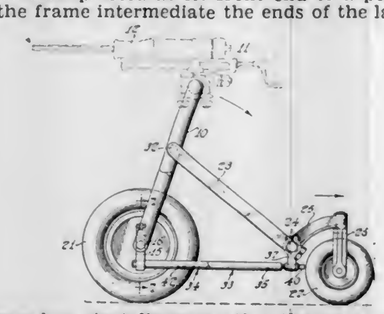


1. The combination with a steam boiler, a fuel pump, a burner for the boiler connected with the pump, and a steam pipe leading from the boiler to the pump, of a valve for controlling the flow of steam to the pump for regulating the flow of fuel to the burner, a diaphragm connected to the valve, a spring connected to the diaphragm for urging the valve into open position, a fuel pressure line connected with the pump and subjecting the other side of the diaphragm to oil pressure, whereby the increasing of this pressure over the pressure of the spring will close the valve, a second spring pressed diaphragm operatively connected to the spring of the first diaphragm for increasing the compression thereof, and a steam line connected with the boiler and subjecting the other side of the second diaphragm to steam pressure, whereby an increasing of the steam pressure on the second diaphragm will relieve the compression on the first spring and permit the fuel pressure on the first diaphragm to move the valve toward closed position.

2,168,905
WAGON DRILL
Earl B. Lear, Detroit, Mich., assignor to Chicago Pneumatic Tool Company, New York, N. Y., a corporation of New Jersey
Application July 31, 1937, Serial No. 156,695
7 Claims. (Cl. 255—51)

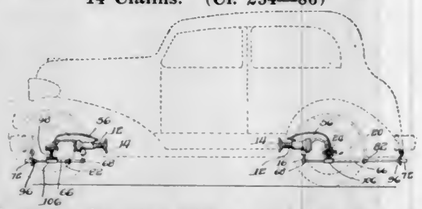
1. A rock drill mounting comprising a tool sup-

porting frame having means at its rear end for supporting a rock drill, carrier means supporting the front end of the frame, said frame being connected to the carrier means for pivotal movement relative thereto about a horizontal axis, a brace arm pivoted at its front end to a portion of the frame intermediate the ends of the latter,



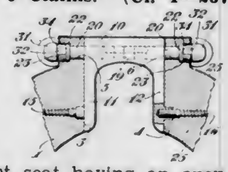
a cross-bar pivotally supporting the rear end of the brace arm, a connecting arm extending between and connected to the cross-bar and said carrier means, releasable means for locking the frame against pivotal movement relative to the brace arm, said connecting arm being of adjustable length whereby the distance between the cross-bar and the carrier means may be varied.

2,168,906
LIFTING DEVICE
Edward J. Leary, Chicago, Ill.
Application May 18, 1937, Serial No. 143,335
14 Claims. (Cl. 254—86)



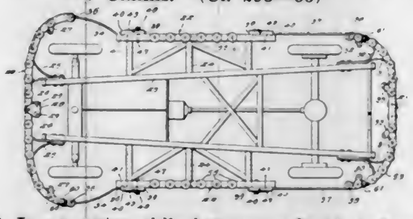
5. In combination with a vehicle, a jack secured to said vehicle and adapted for movement to operating or retracted position, a control bar bodily shiftable to move the jack selectively to either of said positions, and means on the vehicle to engage the bar against said shiftable movement to maintain the jack in said operating position.

2,168,907
WATER-CLOSET SEAT
Howard C. Leslie, Milton, Mass., assignor to B R E Manufacturing Co., Hyde Park, Mass., a corporation of Massachusetts
Application January 20, 1938, Serial No. 185,875
6 Claims. (Cl. 4—237)



1. A toilet seat having an open front and a recessed rear, said seat comprising a pair of laterally spaced arcuate sections, a U-shaped member interposed between adjacent rear ends of said sections to define said recessed rear, the legs of said U-shaped member having fastening elements embedded in the body portions of said sections and being rigidly secured thereto and an integument completely enveloping said sections and U-shaped member and providing a smooth continuous surface free from crevices and irregularities.

2,168,908
AUTOMOBILE SAFETY BUMPER
Melville A. Lewis, Detroit, Mich.
Application July 1, 1935, Serial No. 29,247
7 Claims. (Cl. 293—55)

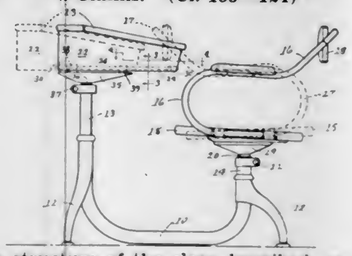


2. In an automobile bumper a front and rear bumper unit in combination for the same, said front unit comprising a pair of opposed angles with their adjacent edges separated, in spaced apart relation, arcuate in formation and means for connecting said angles in this relation, shackle plates secured to the center of said unit and additional shackle plates secured to same and near each end thereof, resilient yieldable means comprising pairs of resilient brackets secured to the front end of an automobile chassis and resiliently coacting with the shackle plates and shackles aforesaid.

2,168,909
PRODUCING ETCHED SURFACES ON ALUMINUM
Ralph B. Mason, New Kensington, Pa., assignor to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application December 1, 1936, Serial No. 113,703
10 Claims. (Cl. 148—8)

1. A method of etching an article having a copper-free aluminum surface, which comprises treating said surface with a hot etching solution of an alkali having dissolved therein a compound of a metal selected from the group consisting of copper and cobalt.

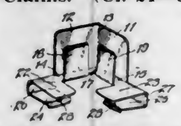
2,168,910
SCHOOL DESK
Ralph K. Merrill, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application March 13, 1936, Serial No. 68,582
2 Claims. (Cl. 155—124)



2. A structure of the class described, compris-

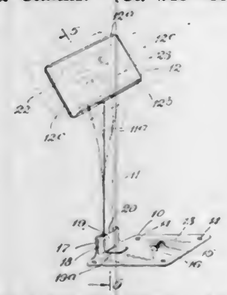
ing: a supporting frame having upwardly extending ends; a seat rotatably mounted on one of said ends; a spider on the other one of said ends having laterally extending arms with parallelly spaced slide bearings extending toward the seat; a desk top having gaps through its bottom; a pair of parallelly spaced rods secured at their ends to the desk top and slidable in said bearings respectively; plates covering the gaps having blocks extending downwardly thereinto and engaging the rods in supported slidable relation therewith adjacent the opposite ends of said bearings respectively, said plates being secured to the bottom of the desk top for supporting the same on the rods.

2,168,911
CORNER BRACKET FOR SHELVES
Pierre H. Meyer, Mount Vernon, N. Y.
Application May 7, 1937, Serial No. 141,223
7 Claims. (Cl. 24—81)



1. A bracket of the class described comprising a pair of U-shaped clips formed from a single blank of sheet material, each clip consisting of a cross-head and spaced side walls, the cross-heads of said clips being arranged angularly to each other, one side wall of each clip being in substantially the same plane as the cross-head of the other or opposed clip to dispose the side walls of said clips at right angles to each other and to arrange the side walls of one clip vertically and the side walls of the other clip horizontally.

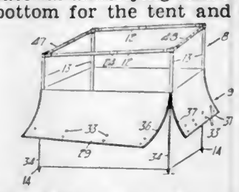
2,168,912
YIELDABLE TICKET HOLDER
Pierre H. Meyer, Mount Vernon, N. Y.
Application February 4, 1938, Serial No. 188,693
2 Claims. (Cl. 248—33)



1. In a ticket holding device of the character described, a supporting base comprising sheet metal plate having an integral upstanding flange at one edge thereof, an offset strap secured to the surface of the flange adjacent said plate to form between the flange and the offset portion of the strap a socket for the reception of a ticket holder supporting arm, said offset strap including an angular part extending onto the upper surface of said base plate, and secured thereto to reinforce the upstanding socket portion of said base.

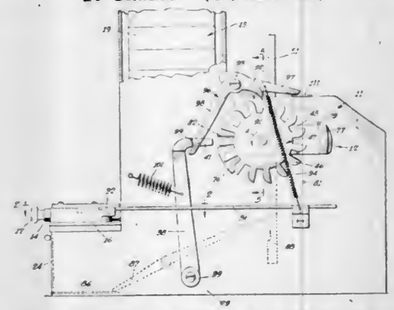
2,168,913
TENT
Andrew W. Middleton, Oakland, Calif.
Application April 19, 1937, Serial No. 137,652
4 Claims. (Cl. 135—1)

1. A tent covering for a cubical frame comprising, a fabric enclosure therefor, the opposed sides of said enclosure being formed of elongated strips of material underlying said frame to define a double bottom for the tent and extending up



the opposed sides of said frame, and fastener means for the adjacent side edges of said sides, said strips being perforated at said bottom for extension therethrough of a ground fastening element of frame.

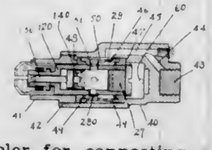
2,168,914
VENDING MACHINE
Lee M. Moninger, Los Angeles, Calif.
Application May 17, 1937, Serial No. 142,945
10 Claims. (Cl. 312—63)



1. In a vending machine, a storage magazine for articles to be dispensed, and dispensing mechanism comprising a plunger movable to release a predetermined number of said articles each time said plunger is reciprocated, a movable bar lying in the path of said plunger, means for thrusting said bar aside when said plunger is moved, an oscillatively mounted detent operatively connected to said bar to be moved when said bar is thrust aside, a revolubly mounted wheel having a plurality of teeth thereon spaced apart to present notches therebetween and having inclined edges engageable by said detent, one of said teeth normally lying in the path of said detent, yieldable means urging said wheel to rotate, means normally holding said wheel against rotation and thereby locking said plunger, coin-operated means for releasing said wheel-holding means and for limiting the extent of movement of said wheel after release to permit rotation of the wheel through a predetermined arc, a locking plate mounted for oscillatory rotational movement adjacent said wheel and having a notch therein, a pawl carried by said locking plate and releasably engaging one of said teeth to hold the locking plate with its notch in registry with said detent, means urging said locking plate to rotate in the direction opposite that in which said wheel is urged by its associated urging means, means for withdrawing said pawl from operative position when said detent moves into one of said notches, and means for moving said pawl back into the path of said teeth upon withdrawal of said detent from said notch, said wheel-urging means being adapted to rotate said wheel upon release thereof by said detent to bring the next

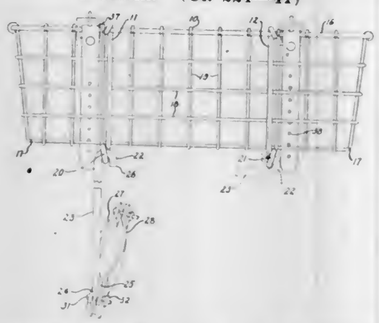
successive notch into registry with said detent before the notch on said locking plate moves out of registry therewith when said wheel is free to rotate that far.

2,168,915
COUPLER FOR LUBRICANT FITTINGS
William L. Ostendorf, Rayland, Ohio
Application July 2, 1938, Serial No. 217,275
6 Claims. (Cl. 284—19)



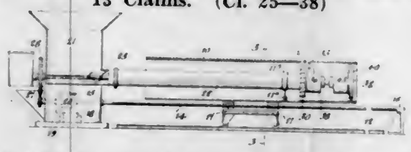
1. In a coupler for connecting a lubricant-delivering duct in assembly with a lubricant fitting, which coupler includes a cylinder, a plunger in said cylinder, a hollow plunger rod connected to said plunger and extending from the plunger through the wall of said cylinder, a chuck, and means for locking said chuck upon a lubricant fitting, with the end of said plunger rod in communication with the inlet of said fitting; the herein described refinement in which said chuck-operating means comprises a tubular housing movable axially outward of the cylinder and plunger assembly, under the influence of axially applied thrust, into chuck-closing position.

2,168,916
BICYCLE BASKET MOUNTING
Ewald F. Pawsat, Maysville, Ky., assignor to Wald Mfg. Co., Inc., Maysville, Ky., a corporation of Kentucky
Application September 17, 1937, Serial No. 164,357
1 Claim. (Cl. 224—41)



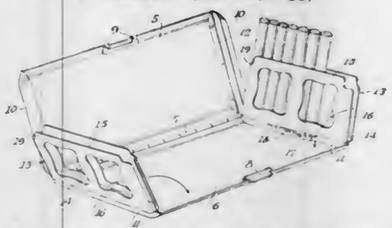
A carrier for application to the handle bar structure and the fork elements of a cycle, said carrier comprising a basket having a bottom, side walls, and end walls, a circumferential frame element defining the top opening of the basket, a pair of spaced brace wires each having opposite ends and an intermediate portion, corresponding ends of each brace wire being anchored to the frame element at the opposite side walls of the basket, with the intermediate portion of each brace wire slung beneath the basket bottom in close proximity therewith, said intermediate portions each being turned upon itself to provide a closed loop adjacent to the basket bottom and in substantial parallelism with an end wall of the basket, and a pair of support bars each having an end for attachment to a fork element of the cycle, and an opposite end including a substantially semi-circular open hook insertable in and removable from its associated loop by disposition of the support bar to a position of substantial parallelism with the basket bottom.

2,168,917
APPARATUS FOR COATING PIPES AND THE LIKE
Albert G. Perkins, Warsaw, N. Y.
Application April 3, 1937, Serial No. 134,870
13 Claims. (Cl. 25—38)



1. An apparatus for lining pipe walls and the like, comprising a feed conduit adapted for communication with a source of coating material and having an axial discharge, and a revolving dispensing member disposed in operative relation to said conduit-discharge for receiving and discharging the material centrifugally therefrom, said dispensing member having material-intercepting blades disposed about the axis of and on that face of said member opposing the discharge of said conduit.

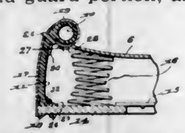
2,168,918
CIGARETTE CASE
Fred Spitalny, Elizabeth, N. J.
Substitute for abandoned application Serial No. 95,520, August 12, 1936. This application October 3, 1938. Serial No. 233,051
4 Claims. (Cl. 206—41)



1. A cigarette case or the like comprising a casing having two hinged members, said casing having a length at least equal to the length of two cigarettes, and a cigarette rack hingedly secured to each of oppositely disposed end portions of one of said members, said cigarette racks being open ended opposite their hinge ends and being shorter from hinge end to open end than the length of a cigarette, whereby cigarettes disposed in said racks will extend therefrom to be accessible for withdrawal.

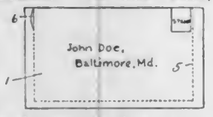
2,168,919
SEAT GUARD
Michael B. Sullivan, Spokane, Wash.
Application May 17, 1937, Serial No. 142,983
9 Claims. (Cl. 155—5)

3. In an aisle end safety device for transversely disposed bus seats, the combination with a bus seat having a yielding seat top and an aisle end including a cover therefor and a supporting frame, of a flexible safety guard having a guard portion extending along the aisle end of said seat and a supporting flange portion secured to said frame and adapted to resist depression of the aisle end of said seat, the upper portion of said end cover extending about and forming a casing for said guard portion, and said seat top



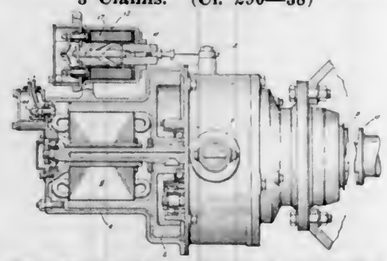
having its aisle end connected with said casing, whereby depression of said seat top will tilt said guard portion toward the occupant while said flange portion resists depression of the aisle end of said seat.

2,168,920
LETTER CARD
Ludwig Wissmann, Baltimore, Md.
Application January 31, 1938, Serial No. 187,832
1 Claim. (Cl. 229—92.8)



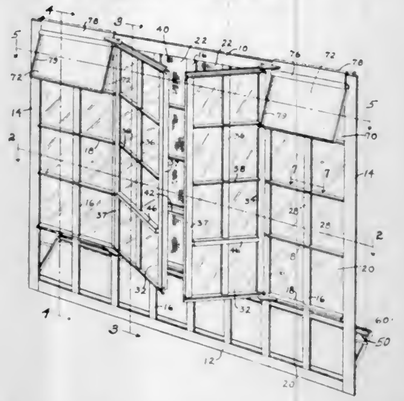
A letter card comprising an outer sheet gummed around its entire edge on the inner surface thereof and having perforations adjacent to said gummed surface on one-half of said outer sheet and an elongated slot adjacent the line of fold of the said outer sheet and in line with said perforations, an inner sheet secured to the inner surface of said outer sheet adjacent its line of fold, said inner sheet having one-half thereof contracted to lie within the gummed edge of one-half of the outer sheet and the other half of the inner sheet projecting over the gummed surface of the outer sheet and perforated on three sides on a line with the inner edge of the gummed surface of the outer sheet so that it can be torn off to allow the gummed surfaces of the two portions of the outer sheet to come together to seal the card.

2,168,921
POWER CONTROL
Joseph W. Allen, East Orange, and Herbert W. Graybrook, Roselle Park, N. J., assignors to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application October 29, 1936, Serial No. 108,294
3 Claims. (Cl. 290—38)



1. In a starter for an internal combustion engine, the combination with an engine engaging member of a combined electric motor and inertia means, including a stator element housing all of the current carrying conductors of the motor and a rotor element surrounding said stator element, and means for drivably connecting said rotor element with said engine engaging member.

2,168,922
WINDOW ASSEMBLY
William D. Bayley, Springfield, Ohio
Application June 1, 1936, Serial No. 82,846
Renewed December 27, 1938
22 Claims. (Cl. 189—64)



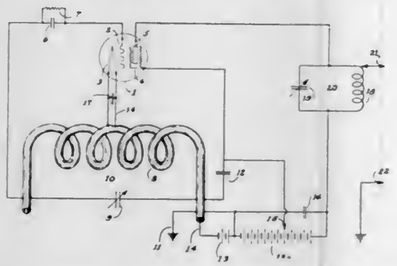
1. In a window assembly which may be glazed from either side, the combination of a set of muntin bars having flanges on the inside of the glazing presenting a flat surface on the interior of the window, said muntin bars having outwardly projecting webs terminating in spaced relation with the outside surface of the glazing, with a second set of muntin bars intersecting the first set of bars, said second set of muntin bars having flanges mounted on the outside of the glazing, said flanges presenting substantially a flat surface on the outside of the window, the muntin bars of the second set having inwardly projecting webs terminating in spaced relation with respect to the inner surface of the window whereby the window panes may be inserted from either side.

2,168,923
RADIO SIGNAL RECEIVING SYSTEM
Samuel Murray Brasher, Decimal, Manitoba, Canada
Application August 1, 1933, Serial No. 683,125
In Canada September 22, 1932
3 Claims. (Cl. 179—171)



1. In a radio frequency amplifier including a plurality of amplifying vacuum tubes, each tube including anode, cathode and control grid, connected to and operating in conjunction with transformers, each transformer having primary and secondary windings, a single reactance connected on one side to the grids of all vacuum tubes and to the terminals of said secondary windings connected to said grids and on the other side to a single coil and through said single coil to the terminals of all secondary windings remote from the terminals connected to said grids.

2,168,924
OSCILLATOR SYSTEM
Jennings B. Dow, Alexandria, Va.
Application July 3, 1931, Serial No. 548,656
28 Claims. (Cl. 250—36)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A system for the production of alternating current energy comprising in combination, an electron tube having a screen-like anode element, grid element, cathode element, and external circuits interconnecting said elements and forming an oscillation generator, a separate anode element in said tube, an output circuit connected thereto, and means including said screen-like anode element for causing said separate anode element to be electrostatically shielded from said grid for such alternating component of potential as exists between said grid and said screen-like anode element.

2,168,925
JOINT IN CONCRETE SLABS OR PAVEMENTS
Laurence I. Hewes, San Francisco, and William Bertwell, San Mateo, Calif.
Application February 25, 1937, Serial No. 127,692
2 Claims. (Cl. 94—18)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

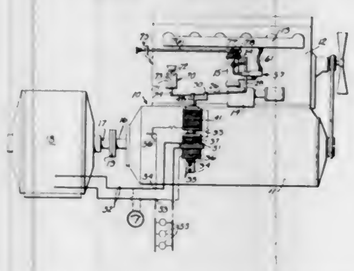


1. A concrete slab joint comprising a straight narrow strip of material in the top of said joint, another narrow strip of material in the bottom of said joint, said bottom strip being symmetrically sinuous about the vertical projection of said top strip, both of said strips being relatively narrow with respect to the slab thickness, the slab portion between said strips being fractured along natural lines.

2,168,926
EGG WHITE PROCESS
Verne D. Littlefield, Beverly Hills, Calif., assignor to Armour and Company, Chicago, Ill., a corporation of Illinois
No Drawing. Application July 7, 1938, Serial No. 218,019
10 Claims. (Cl. 99—210)

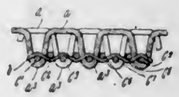
1. In the treatment of liquid egg white the step comprising fermenting a substantially unfermented liquid egg white which is substantially free of those proteins normally occurring in egg white which are insoluble in the egg white at a pH of between about 4 and 6, and drying the fermented egg white.

2,168,927
PRIME MOVER REGULATION
Leland J. Adams, Burbank, and Frank Bracken, Los Angeles, Calif., assignors to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware
Original application October 22, 1937, Serial No. 170,436. Divided and this application June 17, 1938, Serial No. 214,274
7 Claims. (Cl. 290—40)



5. In a motor driven generator apparatus, the combination of a prime mover, means for controlling the operation of said prime mover, an electric generator operatively connected to said prime mover, a regulator responsive to said generator for operating said first mentioned means, and means actuated by said prime mover for assisting said regulator when starting said prime mover.

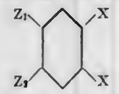
2,168,928
SINGLE PLY ASBESTOS FACED DRIER FELT
William A. Barrell, North Andover, Mass., assignor to Lawrence Duck Company, Lawrence, Mass., a corporation of Massachusetts
Application July 13, 1937, Serial No. 153,309
10 Claims. (Cl. 139—383)



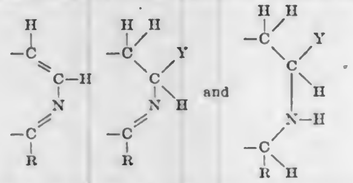
1. A drier felt of single ply construction consisting of interwoven substantially asbestos warp and weft strands, of which the warp strands are distributed substantially uniformly across the width of the felt and each warp strand passes over a group of successive weft strands in the face and under a single weft strand in the back of the felt, in repeated series, and the loops of adjacent asbestos warp strands passing to the back of the felt embrace respectvely different weft strands, and warp strands of other material and greater strength than the asbestos strands interspersed between the asbestos warp strands and all passing in parallel sinuous courses alternately over the same weft strands which are embraced by said loops and under the intermediate weft strands, with sufficient crimp to prevent displacement of the weft strands lengthwise of the warp.

2,168,929
ISOQUINOLINE COMPOUNDS AND DERIVATIVES THEREOF
Max Bockmühl and Hans Hermann, Frankfort-on-the-Main-Hochst, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application December 9, 1937, Serial No. 178,883. In Germany December 12, 1936
4 Claims. (Cl. 260—289)

1. As new compositions of matter the compounds of the following formula:

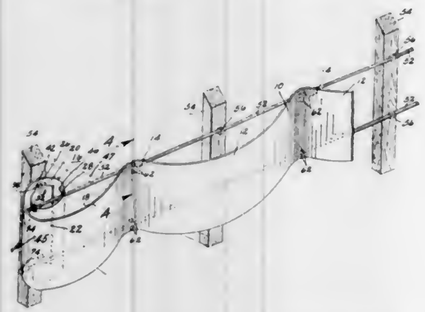


wherein both X's jointly stand for one of the groupings selected from the group consisting of



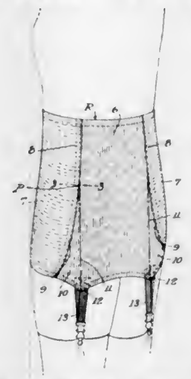
R being a member of the group consisting of cyclohexyl, cyclohexenyl and hexahydrobenzyl, and Y being a member of the group consisting of hydrogen, alkyl and cyclohexyl, Z_1 and Z_2 each stand for a member of the group consisting of hydrogen, hydroxy and alkoxy, and compounds of the above general formula wherein both X's have the same meaning as given above and Z_1 and Z_2 jointly stand for alkylenedioxy, said compounds being solid colorless substances which are readily soluble in benzene, chloroform, ether and petroleum ether.

2,168,930
HIGHWAY GUARD
Joe B. Bradshaw, Stanford, Ky.
Application March 11, 1938, Serial No. 195,244
19 Claims. (Cl. 256—13.1)



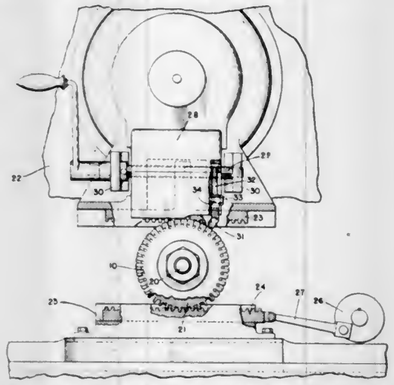
1. A traffic guard device, comprising in combination, a band of sheet metal having longitudinally extending long radius curves joining longitudinally extending short radius curves, means for shiftably supporting the band at each of the short radius curves, whereby the band portions may move lengthwise thereof and relative to the support when engaged.

2,168,931
FOUNDATION GARMENT
Michael Ciringione, Woodside, N. Y.
Application July 30, 1937, Serial No. 156,480
3 Claims. (Cl. 2—37)



1. A foundation garment comprising a body, a rear panel, seams connecting the side edges of said rear panel to adjacent side edges of said body, hose supporters attached to the lower end of said panel and intermediate the side edges thereof, said panel stretchable substantially longitudinally but substantially unstretchable circumferentially, the sides of said panel diverging downwardly from a position intermediate the upper and lower ends of the garment establishing longitudinal lines of free stretchability from substantially said position and within the said rear panel to the lower end thereof and on both sides of said hose supporters, said hose supporters straddling at least some of said lines of pull to the said seams, respectively.

2,168,932
GEAR-CUTTING MACHINE
Robert S. Drummond, Detroit, Mich.
Original application February 8, 1937, Serial No. 124,791. Divided and this application July 26, 1937, Serial No. 155,813
14 Claims. (Cl. 90—24)



1. In a machine of the class described, an adjustable tool carriage for holding a tool rigidly in adjusted position, a support for a gear blank, and means for moving said support with a rolling generating motion relative to said tool, said means comprising a fixed rack, a gear in mesh

with said fixed rack, a second rack in mesh with said gear, and means for translating said second rack to cause said gear to roll on said fixed rack.

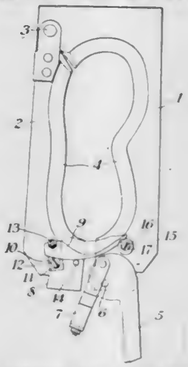
2,168,933
PURIFICATION OF GASES
Fritz Giller, Mannheim, and Fritz Winkler, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application July 9, 1937, Serial No. 152,752. In Germany July 14, 1936
3 Claims. (Cl. 23—3)

1. The process of removing substantially only organic sulphur compounds from gases containing the same which consists in treating the gas in the presence of oxygen and under alkaline conditions with an active charcoal which has been prepared by treating mineral coal in a shaft furnace with hot combustion gases which are blown through the coal with sufficient pressure to establish a strong agitation of the coal.

2,168,934
FOOD PRODUCT AND METHOD OF MAKING SAME
Robert H. Haskins and Robert H. Haskins, Jr., Providence, R. I.
No Drawing. Application July 13, 1937, Serial No. 153,366
6 Claims. (Cl. 99—136)

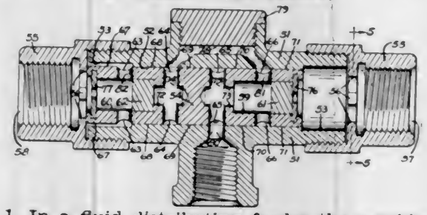
1. In the process of producing a chilled milk food product in a soupy or less completely frozen state than normal ice cream, and of a semi-liquid consistency, from a mixture containing milk solids, ice cream mix and a flavoring substance, the step which consists in preventing complete freezing and stiffening of the mixture to solidification, when stored at the temperature at which ice cream is usually stored, by adding to the mixture glycerin in a sufficient amount to depress the freezing point below that at which actual stiffening of the mixture would occur if stored under freezing conditions without said glycerin content.

2,168,935
SHOE CLAMP
William G. Heiber and Emil R. Meng, Rochester, N. Y., assignors to said William G. Heiber, doing business as William Heiber & Son, Rochester, N. Y.
Application January 14, 1938, Serial No. 185,031
7 Claims. (Cl. 12—107)



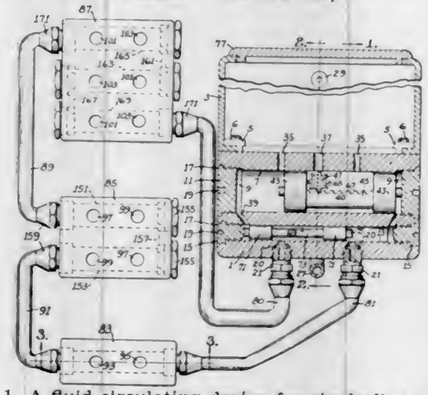
1. In a shoe clamp, the combination with a pair of separable clamping plates engageable between the welt and upper of a shoe and means for actuating them into clamping position, of a positioning member mounted on one of said plates and extending over the other of said plates when they are in clamping position and engaging with the rear of the heel portion of the upper on both sides of the longitudinal center of the shoe at a point substantially above the welt and acting to locate the clamp endwise of the shoe with relation to said heel portion of the upper.

2,168,936
REVERSIBLE SINGLE-LINE FEEDER
David R. Hillis, Detroit, Mich., assignor to Trabon Engineering Corporation, Cleveland, Ohio, a corporation of Ohio
Application October 17, 1936, Serial No. 106,167
11 Claims. (Cl. 184—7)



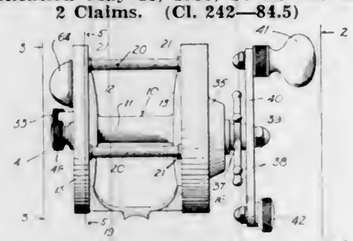
1. In a fluid distributing feeder the combination with a body having a discharge port and two service ports, of means in said body responsive to the injection of fluid into either service port for discharging a quantity of fluid from the discharge port and thereafter passing the injected fluid out of the other one of said service ports, said means comprising a ported piston receiving orifice in said body, a single outlet port in the side of said orifice connected to the body discharge port, a hollow ported piston slidable in said orifice, a pair of chambers in said piston opening through respective spaced piston discharge ports whereby the chambers are selectively connected for discharging into said outlet port, and an auxiliary piston slidably disposed in each of said chambers.

2,168,937
UNITARY FLOW REVERSING PUMP AND CONTROL VALVE
David R. Hillis, Detroit, Mich., assignor to Trabon Engineering Corporation, Cleveland, Ohio, a corporation of Ohio
Application October 21, 1936, Serial No. 106,853
7 Claims. (Cl. 184—28)



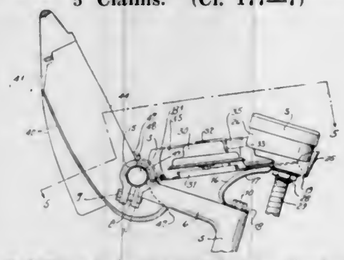
1. A fluid circulating device for single-line reverse-flow distributing systems having in combination, a body, two discharge outlets in said body adapted to be connected to opposite ends of a single line distributing system, a fluid reservoir thereon, a fluid flow indicator, a fluid receiving conduit for passing fluid into said reservoir through said fluid flow indicator, a double acting pump in said body for discharging fluid from said reservoir through respective ones of said discharge outlets alternately and fluid actuated means in said body responsive to the discharged fluid for connecting the other discharge outlet for transmitting the by-passed fluid returning from the other end of the line through said fluid flow indicator into the reservoir.

2,168,938
FISHING REEL
Carl R. Klein, Santa Monica, Calif.
Application May 13, 1935, Serial No. 21,210
2 Claims. (Cl. 242—84.5)



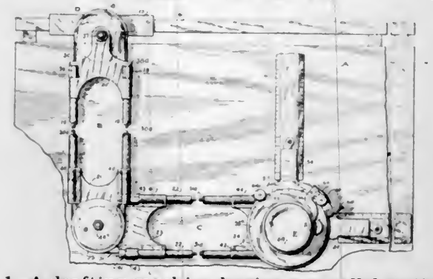
1. A fishing reel comprising a frame, a spool rotatably supported thereby, means for rotating the spool including a gear operatively connected with the spool and rotatable with the same, signal means, means for actuating the signaling means, a gear, a crank element associated with said gear and having an eccentrically mounted axis and being movable into and out of mesh with the said spool gear to be driven thereby, and a pitman connecting said crank element with said signal means, the axis of the eccentric mounted driven gear being disposed with relation to that of the spool gear so as to cause the spool gear to move the driven gear out of mesh therewith and to interrupt the signaling operation.

2,168,939
CYCLE FIXTURE
Herman L. Kraeft, Cleveland Heights, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application October 17, 1936, Serial No. 106,184
5 Claims. (Cl. 177—7)



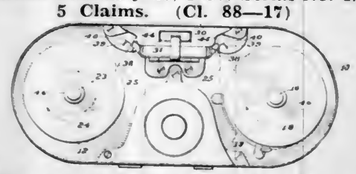
1. A fixture to be mounted upon the handle bar of a cycle, comprising a compartment structure adapted to carry instruments ancillary to a cycle, said structure comprising a top member and a bottom member hinged together substantially on the axis of the handle bar, and means detachably connecting the two members in a region remote from the hinge axis to permit one of the members to be swung open relative to the other member, whereby access to the compartment is afforded.

2,168,940
DRAFTING MACHINE
Charles Henry Little and Charles Hubbard Little, Cleveland Heights, Ohio
Application September 21, 1936, Serial No. 101,738
23 Claims. (Cl. 33—79)



1. A drafting machine having a parallel motion mechanism in the form of two pivoted sections of the band and wheel type, each section comprising a strut with wheels at opposite ends thereof, and a band extending about the wheels, the end of one strut of the machine being relatively stiff and the other end of the strut being relatively flexible to provide flexibility at right angles to the board on which the machine is used.

2,168,941
FILM GUIDE
Isidore Marks, Boston, Mass., assignor to Keystone Mfg. Co., Boston, Mass., a corporation of Massachusetts
Application February 16, 1937, Serial No. 125,985
5 Claims. (Cl. 88—17)

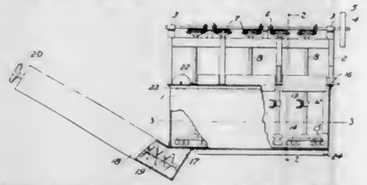


5. Film guiding apparatus for motion picture cameras including a gate defining a work path through which a film is fed from the full spool past the lens and to the take-up spool, having a double film guide at at least the entrance end of said gate comprising upper and lower parts forming separate guide faces but both lying in substantially the vertical plane of said work path, the guide face of the lower part having a height for guiding an 8 mm. wide film and the combined guide faces of both parts having a height for guiding a 16 mm. wide film, and said upper part having a portion extending across the path of travel of an 8 mm. wide film when it is engaged with said lower part, which portion serves as an edge guide for said 8 mm. film to hold it against lateral displacement as it is fed past the lens of the camera.

2,168,942
FLOTATION APPARATUS
James Mason McClave, Denver, Colo.
Application July 6, 1936, Serial No. 88,971
In Canada July 9, 1935
2 Claims. (Cl. 209—155)

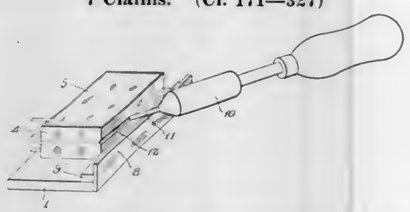
1. A flotation cell having therein a body of water the major portion of which is maintained

in a quiescent condition, comprising a chamber having a discharge outlet at the bottom, a feed inlet discharging adjacent the bottom, an upwardly inclined conveyor pipe connected to the outlet, vertical shafts projecting into the chamber, means to rotate each of said shafts, rabble arms on the lower end of each shaft adjacent



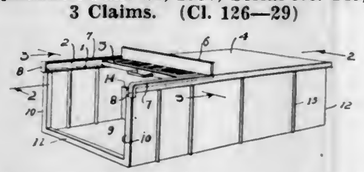
the floor of the chamber and adapted to move in overlapping paths and angularly disposed blades on said arms to agitate solids in the chamber to form and release loaded bubbles which rise through said quiescent body of water and to propel the remaining solids from the feed end to the discharge end thereof.

2,168,943
METHOD FOR UNITING FUSIBLE CRYSTALLINE BODIES
Paul Pfundt, Kiel, Germany, assignor to The Brush Development Company, Cleveland, Ohio, a corporation of Ohio
Application October 13, 1938, Serial No. 234,806
In Germany February 26, 1937
7 Claims. (Cl. 171—327)



1. An assembly for use in piezo-electric devices comprising at least two crystalline bodies of readily fusible piezo-electric material integrally joined together through a solidified autogenous joint.

2,168,944
BARBECUE STOVE
Charles B. Polhemus, San Jose, Calif.
Application June 21, 1937, Serial No. 149,317
3 Claims. (Cl. 126—29)



1. A barbecue stove comprising, a U shaped channel member forming a guide for a grill and disposed to lie in a horizontal plane with its open end directed forwardly, supporting members depending from the forward ends of the channel member, a grill having a length equal to substantially one-half the length of the U shaped member slidably mounted in the guide, and a cover plate mounted on one-half the U shaped member to overlie the grill when the grill is moved to one end of the guide.

2,168,945
SWIMMING GEAR
Ida Florence Redwine, Waltham, Mass.
Application July 2, 1938, Serial No. 217,162
5 Claims. (Cl. 9—17)



1. Swimming gear comprising an inflatable buoyancy element; means adapted to fit on a person's head for securing said element at the back of that person's neck; said buoyancy element having extent in direction crosswise of the neck considerably exceeding the width of the back of a person's neck, with connection to said head-fitting means at a mid-location in its said crosswise extent, from which connection portions of the element project further in the crosswise direction and are free from direct attachment to the head-fitting means.

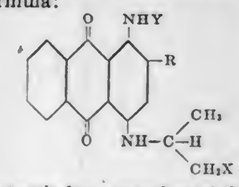
2,168,946
TIE CLIP
James F. Rogers, Rocky River, Ohio
Application November 11, 1937, Serial No. 174,051
1 Claim. (Cl. 24—49)



A tie clip comprising a pair of front and rear bars yieldingly connected adjacent one end thereof and adapted to extend transversely of a tie at the front and back thereof, and a bowed member connected at an intermediate point thereof with said rear bar and having arm portions adapted to cooperate with the front bar at spaced points for gripping corresponding spaced portions of the tie, said arm portions of the bowed member having openings therein which are wider than the front bar and into which said spaced portions of the tie are pressed by the front bar to cause gripping thereof, one of said arm portions of the bowed member having a stop extending into the opening thereof for limiting the extent of movement of the front bar into said openings.

2,168,947
DYESTUFFS OF THE ANTHRAQUINONE SERIES
Werner Zerweck and Ernst Heinrich, Frankfort-on-the-Main-Fechenheim, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application January 27, 1938, Serial No. 187,156. In Germany February 4, 1937
4 Claims. (Cl. 260—377)

1. Dyestuffs of the antraquinone series of the general formula:



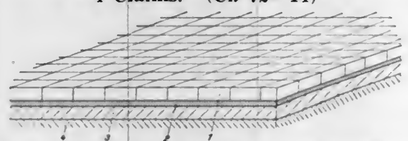
wherein Y stands for a member of the group consisting of hydrogen and alkyl, X for a member of the group consisting of hydrogen and methyl and R represents a member of the group consisting of hydrogen, an alkoxy-, carboxyamide- and sulfonic acid group.

2,168,948
SHOE
Bona Allen, Jr., Buford, Ga.
Application January 12, 1938, Serial No. 184,672
3 Claims. (Cl. 36—57)



1. In an article of foot-wear, a toe construction comprising a vamp and a toe-piece, said toe-piece having a margin standing substantially perpendicular thereto, said vamp also having a margin standing substantially perpendicular thereto and being turned over the edge of the toe-piece margin to overlap the later toward the inside of the toe-piece, thereby enclosing the margin of the toe-piece, and avoiding exposure of the joint between said margins, and stitches driven through said toe-piece and vamp margins and through the overlap of the latter.

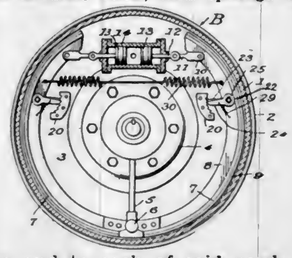
2,168,949
STRATIFORM STRUCTURE IMPERVIOUS TO LIQUIDS
Eugen Bentz, Koblenz, and Johannes Jaenicke, Frankfort-on-the-Main, Germany, assignors to Gewerkschaft Keramchemie-Berggarten, Siershahn, Westerwald, Germany, a corporation of Germany, and Metallgesellschaft Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application March 16, 1938, Serial No. 196,290
In Germany March 16, 1937
4 Claims. (Cl. 72—14)



1. Stratiform structures, impervious to liquids, and having a resistant surface, which are constructed of a layer comprising the dry residue of a mixture of an aqueous rubber dispersion and mineral cement, a rubber layer applied thereon and a protective coating, secured on the latter layer.

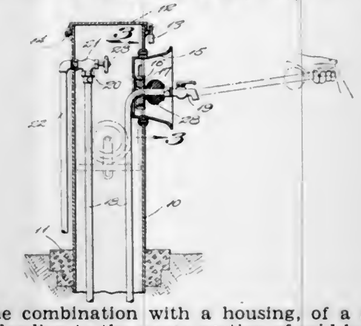
2,168,950
BRAKE SHOE ADJUSTER
Leroy S. Bittner, Elysburg, Pa.
Application March 28, 1939, Serial No. 264,655
3 Claims. (Cl. 188—79.5)

3. In a hydraulic braking system, a source of fluid pressure leading to a plurality of wheel brakes, each of said wheel brakes comprising a rotatable brake drum, a dust plate therefor, a horizontal cylinder secured thereto, a pair of oppositely disposed pistons in said cylinder, said cylinder being in communication with said fluid conduits, oscillating arcuate brake shoes pivoted at one end to said pistons and at their opposite ends to arcuate racks integrally formed and depending from adjacent the ends of said cyinder, a pair of spaced apart fixed angle pawls pivoted to each of said brake shoes and engaging its individual arcuate rack, and springs affixed to



said shoes and to each of said pawls for progressively engaging the pawls with the serrations on said segments as the brake shoes are consumed from use.

2,168,951
FLEXIBLE SERVICE TUBE OR HOSE HOUSING
William Taylor Caldwell, Vivian, La.
Application January 11, 1937, Serial No. 120,110
1 Claim. (Cl. 299—77)

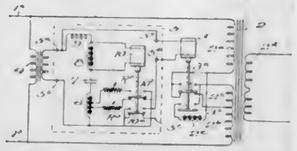


The combination with a housing, of a supply pipe leading to the upper portion of said housing, a flexible hose connected to said supply pipe and normally contained within the housing, said housing having an opening in its upper portion for the extending of the hose therethrough to without the housing, a guide disk movable within the housing and having a pulley with the flexible hose trained thereover for the suspension of said guide disk, and a stretch of link chain forming an all chain weight and having one end fixed to the disk for suspension thereby to have the other end of the chain make contact with the lowermost portion of the housing whereby the said chain will settle onto the lower portion of the housing and effect a gradual pull upon the flexible hose for the bringing of the latter to normal position for being contained within said housing.

2,168,952
VOLTAGE REGULATOR
Palmer Hunt Craig, Bethlehem, Pa., assignor to Invex Corporation, a corporation of New York
Application December 14, 1936, Serial No. 115,844
17 Claims. (Cl. 171—119)

17. In combination, a transmission circuit subject to voltage variations, a relay, an energizing circuit for said relay connected to said transmission circuit, means controlled by said relay in released position for setting said relay to operate at a voltage near the lower end of the permissible

range of voltage variation on said transmission circuit, means controlled by said relay and rendered effective a predetermined time after said relay moves into released position for setting said relay to operate at the highest voltage of said range, means controlled by said last named means for increasing the voltage of said transmission circuit after said predetermined time, means controlled by said relay in operated position for set-



ting said relay to release at a voltage near the upper limit of said range, means controlled by said relay and rendered effective a predetermined time after said relay is moved to operated position for setting said relay to release at the lowest permissible voltage of said transmission circuit, and means controlled by said last mentioned means and rendered operative after said predetermined time for decreasing the voltage of said transmission circuit.

2,168,953

ARTIFICIAL TOOTH

Henry W. Hankinson, Augusta, Ga.
Application October 23, 1936, Serial No. 107,279
3 Claims. (Cl. 32—9)



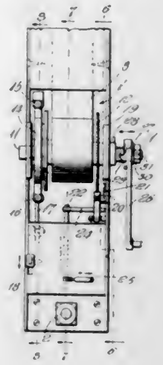
1. A backing for artificial teeth including an inclined intermediate portion and vertical portion depending from the lower edge of the inclined portion, a short vertical portion extending upwardly from the upper edge of said inclined portion, a web depending from the inclined intermediate portion, said web terminating at its free vertical edge in alignment with its upper edge of said inclined portion and at its lower end flush with the lower edge of the vertical depending portion, and a pin secured to the edge of the web and projecting above and below the same, said pin being secured to said short upwardly extending portion and forming therewith a reinforcing means for said tooth.

2,168,954

LINE TIGHTENER

Mike Jacob, Andrew Jacob, and Joe Maravalli, Dunlo, Pa.
Application November 29, 1937, Serial No. 177,162
1 Claim. (Cl. 254—161)

In a line stretcher, the combination of a casing, a shaft mounted for rotation in said casing, a strap mounted on said shaft, a brake drum mounted on the shaft at one side of the drum, a toothed wheel mounted on the shaft at the opposite side of the drum, a brake band for said brake drum, means for operating said brake band, a pivoted pawl resiliently engaging said toothed wheel for normally permitting one-way rotation of said drum, means for disengaging said pawl from said toothed wheel, a crank loosely mounted on said shaft, a pin on said shaft extending radially therefrom, resilient means about said shaft for forc-



ing said crank away from said pin, and means on said crank for engaging said pin whereby rotation of the crank will rotate the shaft and the elements mounted upon it.

2,168,955

SHINGLE

John A. Karan, Buffalo, N. Y.
Application October 26, 1938, Serial No. 237,096
2 Claims. (Cl. 108—7)

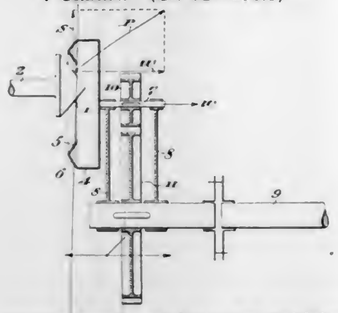


1. A shingle of the class described having an extension at the lower part of one side edge thereof, a tongue extending from the upper edge of said extension and forming a slot between itself and the adjacent part of the shingle, said slot curving inwardly and downwardly and terminating in a hole forming enlargement which is located above the plane of the upper edge of the extension, the other side of the shingle at its lower part having a recess therein, a tongue depending into the recess and forming a slot between its inner edge and the adjacent wall of the recess, said second tongue being of considerable length and width so as to receive a nail for fastening the tongue to a roof, the last-mentioned slot of one shingle interengaging with and having its upper end wall fitting in the hole forming enlargement of the first-mentioned slot of a second shingle when the two shingles are placed together with the extension of the first shingle extending under a portion of the second shingle adjacent the recess, and the second tongue of the second shingle located under a portion of the first shingle.

2,168,956

CHANGE SPEED GEAR FOR POWER VEHICLES

Hermann Köhl, Stolberg, Germany, assignor, by mesne assignments, to P K Drive Corp., Jersey City, N. J., a corporation of New Jersey
Application February 17, 1937, Serial No. 126,294
In Germany December 7, 1936
7 Claims. (Cl. 74—190.5)

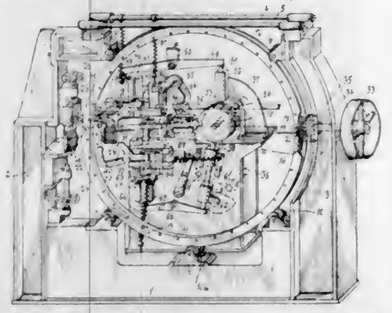


1. A change speed gear for power vehicles, comprising a driving friction wheel, a driven friction wheel, means for mounting the driven friction wheel so that it may be shifted relative to the driving friction wheel, means for changing the velocity ratio of the friction wheels by shifting the driven friction wheel, said last-mentioned means being under the influence of the drive resistance and the revolutionary speed or power of a motor of the power vehicle, and a Cardan shaft on which the driven wheel is swingably mounted, the axis of rotation of the friction wheels being parallel to each other, and the driven wheel when shifted, swinging orbitally about the Cardan shaft.

2,168,957

MACHINE FOR THE WINDING OF THE ELECTRICAL COILS ON A RING-FORMED DYNAMO CORE

Ernst Kürsteiner, Kjelsas, near Oslo, Norway
Application January 14, 1937, Serial No. 120,607
6 Claims. (Cl. 242—5)



1. A machine for winding electrical coils on ring-shaped magnetic cores of rectangular cross-section, comprising a frame, means on said frame for clamping a magnetic element of ring shape with a centre hole, a wheel of substantially larger diameter than the said core mounted for rotation in the said frame and adapted to be opened and passed through the said hole in the said core, means on the circumference of the said wheel adapted to receive a quantity of electric conducting and insulating material, said wheel having openings in the circumference for the passage of said conducting and said insulating material from the said wheel towards the part of the said core which is on the inside of the said wheel, and means on the machine adapted to follow said conducting material around said core and to remain in contact with the same and force it into position on the core, as the said wheel is being rotated.

2,168,958

THROTTLE CONTROLS FOR INTERNAL COMBUSTION ENGINES

Johan Lichtenstein, Levallois-Perret, France, assignor to Societe Generale des Carburateurs Zenith, Geneva, Switzerland
Application September 26, 1938, Serial No. 231,841
In France October 1, 1937
10 Claims. (Cl. 137—139)

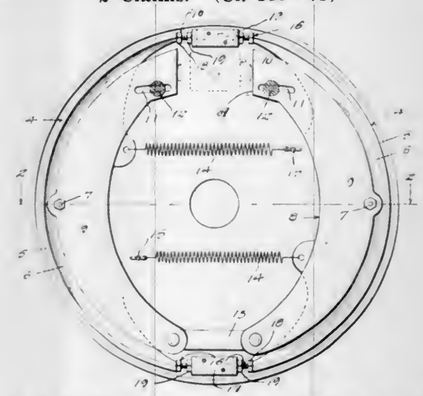


1. In a device for controlling the throttle of an internal combustion engine both by a pilot's throttle control and by a maximum opening control, the combination of two rods, a pivoting axis for connecting said two rods, an operative connection between one point of one of said rods and the throttle, an operative connection between one point of the other rod and said pilot's throttle control, said connecting points being situated respectively on both rods at an equal distance to said pivoting axis, an operative connection between one of said rods and said maximum opening control, and means for compelling said connecting points of said rods to move respectively along two curves.

2,168,959

HYDRAULIC BRAKE

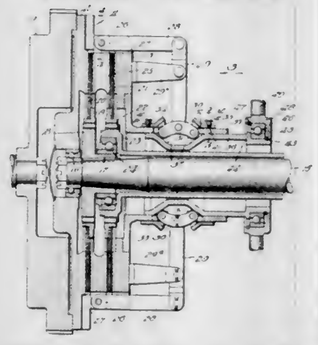
Nicholas R. Lulay, Sublimity, Oreg.
Application November 16, 1937, Serial No. 174,886
2 Claims. (Cl. 188—78)



1. A brake mechanism, comprising, a brake drum, brake shoes positioned within said drum, a shield for closing said drum, operating bars

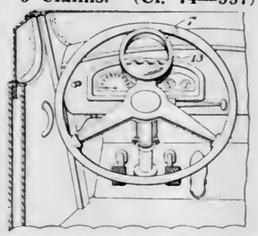
pivotally connected together at one end and slidably and pivotally attached to said shield at the opposite end, said brake shoes pivotally mounted on said bars and independently of said shield and drum, springs connecting said shoes to said shield to normally position said shoes in non-braking position with respect to the drum, said shoes formed with oppositely disposed end faces, and fixed stops having adjustable elements interposed between the oppositely disposed faces of the shoes for limiting the movement of the shoes towards each other.

2,168,960
CLUTCH MECHANISM
Donald W. Morris, Racine, Wis., assignor to Twin Disc Clutch Company, Racine, Wis., a corporation of Wisconsin
Application January 31, 1938, Serial No. 187,818
17 Claims. (Cl. 192—48)



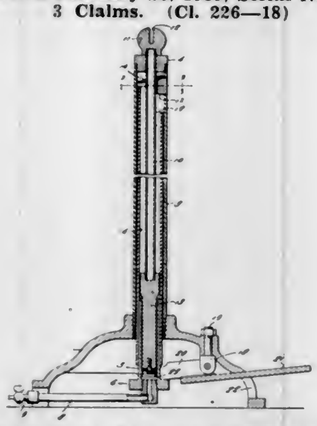
1. In clutch mechanism, the combination of clutch devices connected to separate rotary parts, a clamping member connected to one of the devices and shiftable to drivably connect both devices, a lever pivoted on one of the devices and connected to the member, a link pivoted on the lever, and means engageable with the free end of the link comprising parts fixed and movable relative to the link, respectively, the movable part swinging the link about its pivot against an inclined surface provided on the fixed part to thereby rock the lever to shift the member to driving position.

2,168,961
AUTOMOBILE STEERING WHEEL
Thomas M. Ragan, Tulsa, Okla.
Application March 27, 1939, Serial No. 264,500
6 Claims. (Cl. 74—557)



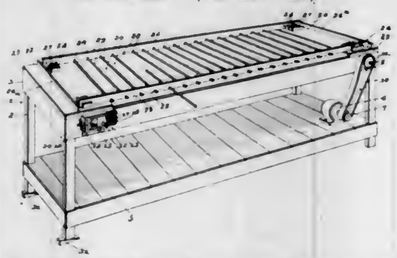
1. The combination with a steering wheel, of a rotatable grip to one side thereof, said grip having an opening therethrough and a counterweighted gripping side carried by the rotatable grip.

2,168,962
GARMENT SACKER
Elmer J. Schoenlaub, Marion, Ohio
Application February 20, 1939, Serial No. 257,559
3 Claims. (Cl. 226—18)



1. A garment sacker comprising a tubular post, a garment supporting rod mounted for vertical sliding movement in said post, a frictional locking member mounted in the post and engaged with the rod for releasably securing said rod in raised position, and means for releasing the rod, said means including a tubular member slidably mounted in the post and engageable with the locking member for actuating same to released position, and a pivotally mounted foot lever operatively connected to the sleeve for elevating same.

2,168,963
CANDY STICK MACHINE AND METHOD OF MAKING
Bernard A. Sennett, Sr., Memphis, Tenn.
Application March 7, 1938, Serial No. 194,492
10 Claims. (Cl. 107—13)

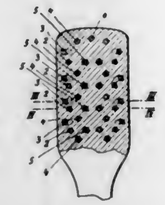


1. A candy stick machine comprising a traveling conveyor to impart a rolling motion to a stick of candy emplaced thereupon, a pair of side boards spaced apart laterally of the conveyor, and means by which to keep the stick rolling in virtually one position upon the conveyor until elongated sufficiently to touch the side boards at its ends.

2,168,964
TOOTH BRUSH
Max Strasser, Erfurt, Germany, assignor to the firm Gebrüder Strasser, Erfurt, Germany
Application January 18, 1938, Serial No. 185,617
In Germany August 12, 1937
3 Claims. (Cl. 15—167)

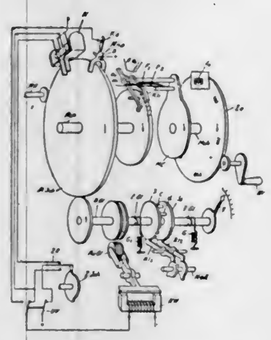
1. A tooth brush having, in the brush plate

thereof, a longitudinal series of spaced pairs of inclined brush tufts forming two rows, one member of each pair being oppositely and transversely inclined from and longitudinally offset from the other so that the individual members of one row



on one side extend across the plane of the members of the other row, and a vertical brush tuft between each pair of inclined tufts, the inclination of the tufts in one of the rows of inclined tufts being greater than the inclination of the tufts in the other row.

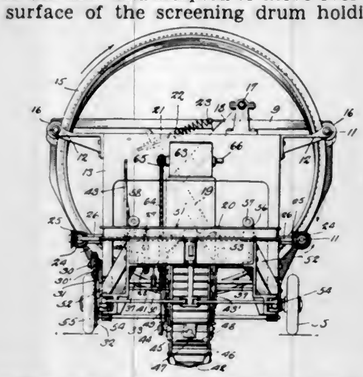
2,168,965
RECORDING DEVICE
Fritz Trachsel, Bumpliz-Bern, Switzerland
Application October 18, 1935, Serial No. 45,674
In Switzerland October 18, 1934
5 Claims. (Cl. 235—104)



1. An apparatus for reproducing and indicating the rate of rotation of a shaft comprising magnetizable means, means for driving the magnetizable means at a rate proportional to the shaft speed, means for magnetizing said magnetizable means in alternate directions at regular intervals of time, means for moving said magnetizable means at a rate independently of said shaft speed, means responsive to said magnetizations and a speed-indicating device of the chronometric type driven from said last-named means and controlled by said responsive means.

2,168,966
BULB DIGGING MACHINE
Abraham De Vries, St. Anne, Ill.
Application October 22, 1937, Serial No. 170,490
3 Claims. (Cl. 55—9)

1. A bulb harvesting machine comprising a frame, a rotary screening drum mounted on the frame, a spring-pressed pivoted arm mounted within the screening drum, a wheel on the free end of the arm and adapted to move over the inner surface of the screening drum holding the



screening drum on the frame, and means for delivering material to the screening drum.

2,168,967
DENTURE
Frederick M. Zull, Valley Stream, N. Y.
Application May 8, 1937, Serial No. 141,540
2 Claims. (Cl. 32—3)

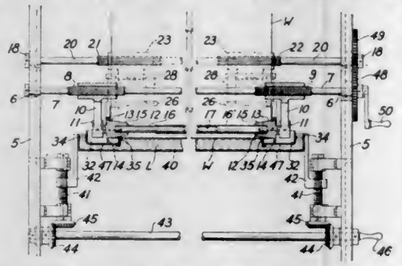


1. The herein described method of forming a denture with a gum receiving groove and a plurality of gum engaging vacuum cups in the groove, comprising in first placing a plurality of vacuum cups, each provided with a threaded shank and a nut on the shank, in correct positions and in spaced relation, on the gum, then taking an impression on the gum, which embeds the nuts in the impression material and cause the cups to make recesses in the bottom of the groove of the impression material, then removing the cups and their shanks, leaving the nuts in the impression material, then threading screws into the nuts to position the screws in the groove of the impression material, then pouring model material against the form made by the impression material, which embeds the screws in said model material, some of the model material entering the recesses previously formed by the cups, and then destroying the form to expose the nuts, whereby said nuts will be embedded in the denture when the same is formed from the model, to receive the threaded shanks of the cups, and the raised portions of the model, formed by the model material entering the recesses formed by the cups in the impression material, will form recesses in the denture around the cups.

2,168,968
WEB COATING APPARATUS
David A. Babcock and Henry E. Van Derhoef, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 11, 1938, Serial No. 184,456
7 Claims. (Cl. 91—46)

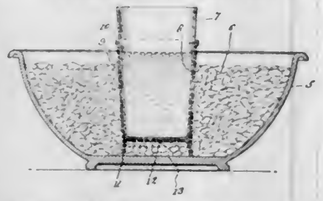
1. In a web coating apparatus, the combination with an immersion roller for a web of material to be coated, said roller comprising a pair of spaced circular supporting surfaces for supporting the web of material at its edges only, a

spindle connecting said supporting surfaces and being of smaller diameter than said supporting surfaces whereby that portion of the web between the supporting surface is free from contact with the roller, of means for encasing the ends of said roller and engaging the surface of the web adja-



cent said supporting surfaces to form a liquid tight joint between the center of the roller and its ends, and a tank containing the coating liquid, said tank confining the lower portion of the immersion roller whereby the unprotected portion of the web of material on the roller will be immersed in the coating solution.

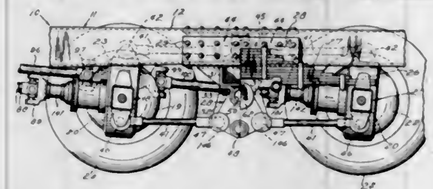
2,168,969
ICED-COCKTAIL CONTAINER
Judson L. Bickerstaff, Biloxi, Miss.
Application January 28, 1938, Serial No. 187,542
2 Claims. (Cl. 62—87)



1. An iced-cocktail container comprising a bowl containing a mass of cracked or shaved ice, a cup removably mounted in said bowl and having a lower thin edge substantially circular wall for penetrating the ice mass by a rotary motion of the cup, said cup having a perforated wall, said cup also having a perforated bottom spaced appreciably above said lower thin edge whereby to provide a space below the bottom and within the confines of that portion of the perforated wall lying wholly below said bottom to said thin edge, said space adapted to leave the thin edge free on both sides of said wall, said space also adapted to receive a quantity of the ice mass to center and stabilize the cup, said perforated wall being reinforced along its lower thin edge and adapted to rest on the bottom of the bowl, and a juice container removably fitted within said perforated wall and perforated bottom of the cup and being taller than the cup to provide a portion standing above the cup to be grasped and removed.

2,168,970
AUTOMOTIVE MULTIWHEEL VEHICLE
Lawrence R. Buckendale, Detroit, Mich., assignor to The Timken-Detroit Axle Company, Detroit, Mich., a corporation of Ohio
Application November 23, 1936, Serial No. 112,413
3 Claims. (Cl. 180—22)

1. In a dual drive axle assembly of the type wherein the axles are individually driven by separate propeller shafts, a frame-work, a pair of spaced drive axles including independent driving shafts, a pair of inclined independent propeller shafts for transmitting power to said driving shaft, a pair of equal length radius rods interconnecting the tops of said axles and said frame-work, the points of connection of said rods to said frame-work being in the same horizontal plane but spaced at unequal longitudinal

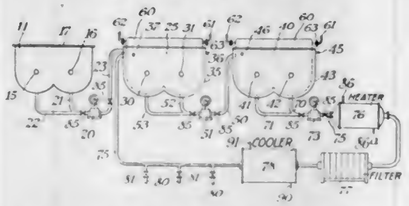


distances from the mid-point between said axles, a pair of equal length rods at each end of said axles connecting the undersides of said axles to said frame-work at points equi-distant from said mid-point to serve as torque rods for said axles, whereby said axles are tilted to align said driving shafts and said propeller shafts, and springs pivoted intermediate their ends to said frame-work and having said end rests resting upon seats provided on said axles.

2,168,971
METHOD OF INCREASING THE EFFECTIVE SPEED OF A PHOTOGRAPHIC ELEMENT
John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 30, 1937, Serial No. 182,516
2 Claims. (Cl. 95—6)

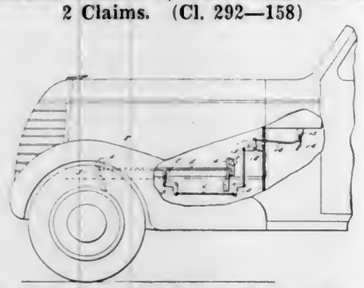
1. The method of treating a photographic element including a photographically sensitive gelatino-silver halide emulsion that comprises exposing said layer to a light image, maintaining the element for at least an hour at a temperature of the order of 120°F. and a relative humidity of the order of 80% and then developing an image in said layer.

2,168,972
METHOD OF REMOVING AIR BUBBLES FROM FILM DOPE
Emmett K. Carver, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application February 2, 1937, Serial No. 123,737
3 Claims. (Cl. 18—57)



1. A process for the manufacture of films from a dope comprising heating the dope to a sufficiently high temperature to remove entrained and dissolved gases, super-heating said gas-free dope to reduce its viscosity, filtering said super-heated dope, cooling said dope, and finally casting the cooled gas-free dope into a thin sheet.

2,168,973
AUTOMOBILE-HOOD LOCK
Melvin Carver, Carlsbad, N. Mex.
Application October 4, 1937, Serial No. 167,289
2 Claims. (Cl. 292—158)



2. In a latching device for the panel of a motor vehicle hood wherein the panel carries hooked keepers spaced from each other longitudinally on the inner face of the panel, guide brackets carried by the hood and disposed adjacent the keepers when the panel is closed and formed with vertical guide slots, a rod extending between the brackets with its ends loosely engaged through the slots and projecting from the brackets for engagement with the hooked keepers, a rigid arm depending from said rod intermediate the brackets, and actuating means pivoted to the lower end of the arm for drawing the arm and rod downwardly to lowered position with the ends of the rod in locking engagement with the hooked keepers.

2,168,974
DOUBLE EXPOSURE PREVENTION CAMERA
John Christie, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application October 5, 1938, Serial No. 233,444
7 Claims. (Cl. 95—31)



1. In a roll holding camera, the combination with a camera body including means for passing film therethrough, a spring plunger, means operated by the film for retracting the plunger each time a fresh area of film is wound into place, a shutter carried by the camera, a setting lever therefor, a trigger for the shutter, an oscillatable member carrying means for engaging the shutter setting lever and trigger, walls carried by the oscillatable member adapted to be engaged and locked by said plunger, and a spring latch member positioned on the oscillatable member for holding said plunger from locking engagement with said plunger until after said trigger has been actuated by said oscillatable member.

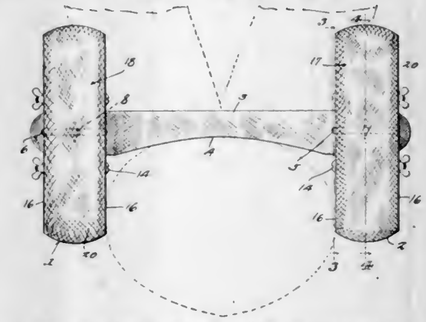
2,168,975
MASSAGING DEVICE
Dumont Clarke, Asheville, N. C.
Application June 4, 1937, Serial No. 146,491
3 Claims. (Cl. 128—62)

1. In a device of the class described, an elongated rigid body, a working member, means for attaching the working member to the intermediate portion of the body for adjustment about an axis transverse to the length of the body, rigid



handles located at the ends of the body, and means for securing the handles to the body for swinging movement in a plane coincident with the body.

2,168,976
AUTO CUSHION
Dumont Clarke, Manchester, Vt.
Application March 31, 1938, Serial No. 199,267
7 Claims. (Cl. 155—198)

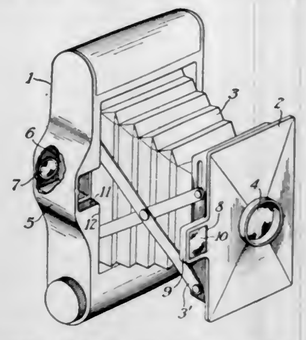


1. A combined automobile cushion and arm support comprising a pair of supporting rails, a cross rail connecting said supporting rails, and arm supporting rails adjustably mounted on said first mentioned supporting rails.

2,168,977
VIEW FINDER FOR FOLDING CAMERAS
Chester W. Crumrine, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application July 21, 1937, Serial No. 154,853
7 Claims. (Cl. 88—1.5)

2. In a folding camera the combination of a camera body having a recess in the front wall thereof, a lens board of a size and shape to fill said recess, means for foldably mounting said lens board on said camera body for movement between a folded position wherein said lens board fills said recess to be flush with the front wall of the camera body and forms a part thereof, and an extended picture taking position wherein said lens board is parallel to but spaced from the front wall of said camera body, said camera body provided with an opening extending therethrough and providing a rear direct finder element, a front finder

element carried by said lens board and arranged thereon whereby the same is adapted to be in alignment with said rear finder element to form a complete view finder when said lens board is in



the picture taking position, and adapted in the collapsed position of said lens board to be received in said opening to be flush with the front wall of said camera body.

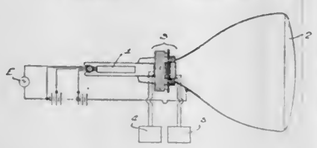
2,168,978

CATHODE RAY DEFLECTING APPARATUS

Justin R. Duncan, Collingswood, N. J., assignor to Philco Radio & Television Corporation, Philadelphia, Pa., a corporation of Delaware

Application February 25, 1936, Serial No. 65,704

9 Claims. (Cl. 250—157)



9. In cathode ray deflecting apparatus; means for forming an electron beam; an electromagnetic field structure for deflecting said beam in one principal direction; a second electromagnetic field structure, axially spaced from said first field structure, for deflecting said beam in a second principal direction substantially perpendicular to said first direction; and magnetic pole pieces, carried and energized by said first field structure and spaced from both said field structures on the side of said second structure opposite said first structure, for deflecting said beam in said first principal direction.

2,168,979

HANDLE FOR HAND GRENADES

Georg Erdmann, Berlin, Germany

Application September 28, 1937, Serial No. 166,146

In Germany July 6, 1936

2 Claims. (Cl. 102—29)

2. A handle for hand grenades, more particularly those with tear-off fuses, comprising a shank member, pressed out of artificial pressed material with reinforcing insertions, an externally screw-threaded connecting piece made of artificial pressed material with reinforcing insertions and non-releasably welded in a watertight manner to the upper end of the shank member, and adapted to accommodate an internally screw-threaded container for a bursting charge, an external screw thread formed on the lower end of the shank member by pressure, and a closure cap pressed out of artificial material



screwed directly on to the thread at the lower end of the shank member.

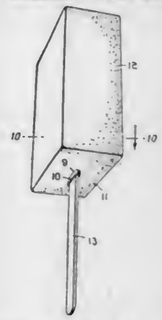
2,168,980

EDIBLE PRODUCT

Dexter Farr, Ogden, Utah

Application October 12, 1932, Serial No. 637,503

2 Claims. (Cl. 99—137)



1. A food product of the character described comprising a hollow shell embedded in a body composed of a congealed edible substance; said shell being closed at the inner end thereof and being open at the outer end thereof exteriorly of said body, and forming a socket of substantial depth within said body for receiving a separate handle member.

2,168,981

PHENOLIC RESIN MOLDING COMPOSITION

William E. Flood and George B. Howells, Metuchen, N. J., assignors to Catalin Corporation of America, a corporation of Delaware

No Drawing. Application August 6, 1936, Serial No. 94,574. Renewed July 26, 1938

11 Claims. (Cl. 260—60)

1. The method of producing molding compounds which comprises reacting more than 1.5 mols of formaldehyde with 1 mol of phenol in the presence of an alkaline catalyst, rendering the mass slightly acid, dehydrating until the mass would gel on long-continued heating, mixing therewith a substantial proportion of melted novolak resin resulting from the reaction of approximately equal molecular proportions of phenol and formaldehyde in the presence of an acid catalyst, substantially neutralizing and permitting the ingredients to react and form a spongy mass, and grinding up such mass to form a molding powder.

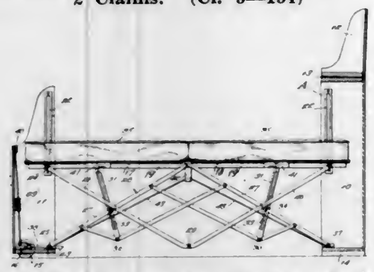
2,168,982

COLLAPSIBLE BED

Bennie McKeithan Graham, Tupelo, Miss.

Application September 9, 1937, Serial No. 163,147

2 Claims. (Cl. 5—154)



1. A collapsible bed comprising a case having separable enclosing sections constituting head and foot pieces, lazy tongs between and at opposite sides of the sections and having end levers pivotally and slidably connected to said pieces, respectively, and extended and contracted by movement of said pieces, a foldable mattress carrier having hingedly connected sections supported by said lazy tongs, the hinge connection of the sections being pivoted to the lazy tongs intermediate of the extent thereof, and lifter arms pivotally and slidably linked with said lazy tongs and arranged at opposite sides of the pivotal connection of the sections of the mattress carrier with the lazy tongs and active on the sections of said mattress carrier for supporting the said sections in a horizontal plane in alignment with each other when the said lazy tongs are extended.

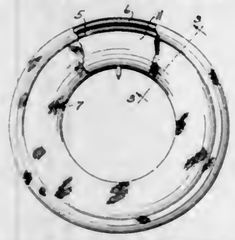
2,168,983

TESTING DEVICE

Luvan Greely, Sr., South Lebanon, Ohio

Application September 19, 1938, Serial No. 230,730

1 Claim. (Cl. 73—51)



A device of the character described, comprising, a rigid ring, a compressible ring of a normal larger diameter than said rigid ring and fashioned with spaced ends, a sleeve fixed to one of said ends and slidably receiving the other of said ends whereby to reduce the diameter of said compressible ring when said ends are moved towards each other, and a body of flexible interwoven material connecting said rings together and adapted to receive thereon a deflated tube, said compressible ring adapted to be compressed to permit said tube, body of flexible interwoven material and compressible ring to be passed through said rigid ring with said tube enveloped in said material in a manner to preclude bulging of said tube when the latter is highly inflated and when said compressible ring has been expanded to normal condition adjacent and outwardly of said rigid ring.

2,168,984

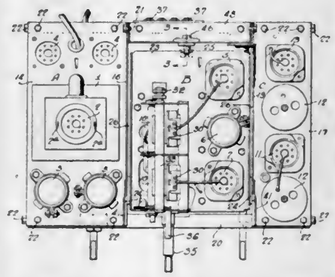
CONSTRUCTION AND MANUFACTURE OF RADIO RECEIVERS

David Grimes, Beverly, N. J., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware

Application March 10, 1937, Serial No. 130,202

In Great Britain March 11, 1936

8 Claims. (Cl. 250—16)



1. In a radio receiver, a unit comprising a plurality of elements including a tuning element having a control shaft mounted on a common support or base, means for pivotally mounting the front of said support, said means comprising a pair of opposed pivotal mountings on opposite sides of said support, each of said mountings comprising a stationary flared wall with an elongated opening therein and a resilient member carried by said support adapted to be drawn into said openings so as to seat therein, and means for adjustably mounting the rear of said support to permit variation of the position of said shaft.

2,168,985

PREPARATION OF IRON FREE COPPER SOLUTIONS

Sverre Gulbrandsen, Gloucester, N. J., assignor to New Process Rayon, Inc., Gloucester, N. J., a corporation of Delaware

No Drawing. Application October 3, 1936, Serial No. 103,910

21 Claims. (Cl. 23—125)

13. The method of producing an iron-free copper salt solution from an acid copper solution containing iron in the ferric state, which comprises adding to and evenly distributing throughout the solution, a soluble phosphate in a quantity sufficient to combine with the iron content, the solution being sufficiently acid to keep the phosphate in solution, adding an alkali in an amount sufficient to neutralize the solution and precipitate the entire iron content and a small percentage of the copper content of the solution, withdrawing the iron-free copper solution, adding to the residue an amount of acid sufficient to dissolve substantially all the copper content of the residue while leaving the iron insoluble, and withdrawing the iron-free copper solution.

2,168,986

OVERHEAD CARRIER

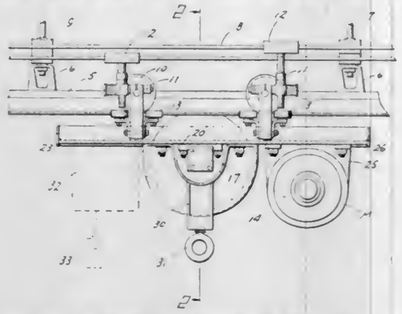
Frank C. Harris, Lakewood, Ohio, assignor to The American Monorail Company, Cleveland, Ohio, a corporation of Ohio

Application October 11, 1932. Serial No. 637,264

6 Claims. (Cl. 105—153)

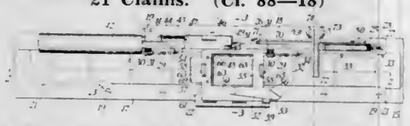
1. In an overhead carrier system, a rail, a trol-

ley, a frame, and means for swivelling said frame to said trolley comprising a pan shaped member provided with flanges, rollers journalled in said frame and adapted to ride on said flanges to



retain said frame in association with said member, and thrust rollers mounted in said member and adapted to engage the sides of the rail and to prevent lateral displacement of the frame relative to the rail.

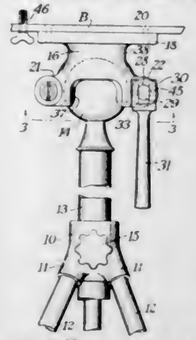
2,168,987
FILM FEEDING MECHANISM
Roy Samuel Hopkins and Elmer O. Wangerin, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 24, 1937, Serial No. 150,082
21 Claims. (Cl. 88—18)



1. In a device of the character described, the combination of a film guide for a strip of perforated film, a film gate comprising a platen hingedly and oscillatably mounted on said guide and cooperating therewith to maintain said strip in flat position therebetween, a slide reciprocally mounted on and supported by said guide, a spring pressed pull down claw on said slide adapted to engage said perforations upon movement of said slide to move said strip along said guide and to position said strip in said gate, a lug on said gate, and a cam on said slide arranged to engage said lug to open the gate in timed relation to the movement of said slide.

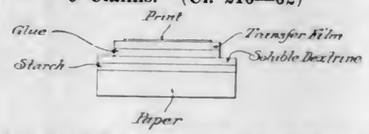
2,168,988
ADJUSTABLE TRIPOD HEAD
Bernard A. Hultquist, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application June 9, 1936, Serial No. 84,316
3 Claims. (Cl. 248—181)

3. A ball and socket joint for an adjustable tripod head, comprising a supporting member having a spherical end, a socket member split into two parts and adapted to engage said spherical end, a camera supporting plate fixedly carrying each of the two parts of said socket member so that said parts are slightly separated to loosely engage the spherical end and confine the supporting plate thereto, an adjustable connecting means holding the two parts of the split socket member together at one side thereof and adapted to set up an initial frictional grip between the socket member and the spherical end confined therein, a tie-bolt adjustably holding the two parts of said socket together and being diametrically located across said socket with re-



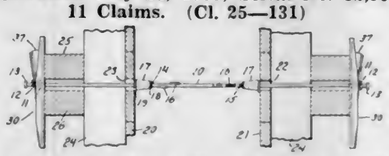
spect to said connecting means, and a clamping means connected to said bolt whereby the actuation of the clamping means may rigidly attach the split socket to the spherical end depending upon the initial adjustment of said connecting means.

2,168,989
METHOD AND MEANS FOR UNREMOVABLY SECURING STAMP TRANSFERS AND THE LIKE
Ferdinand W. Humphner, Oak Park, Ill., assignor to Mid-States Gummed Paper Co., Chicago, Ill., a corporation of Delaware
Application February 21, 1938, Serial No. 191,778
9 Claims. (Cl. 216—62)



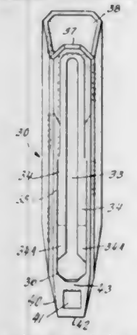
1. A method for preventing the reuse of stamp transfers and the like, comprising providing the same with an adhesive for applying the same to a surface, said adhesive including an insolubilizable material, and wetting said adhesive for applying said transfer to a surface with a reagent which tends to progressively insolubilize said adhesive.

2,168,990
FORM TIE
Daniel C. Hungerford, Chalfont, Pa., assignor, by mesne assignments, to Star Expansion Bolt Company, New York, N. Y., a corporation of Illinois
Application July 24, 1935, Serial No. 32,864
11 Claims. (Cl. 25—131)



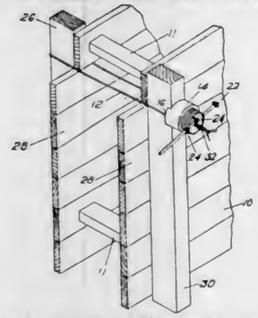
1. A tie rod having a plurality of integral spaced heads near its ends, the outer of said heads having flat sides of less lateral dimension than that of the next adjacent head, abutment lugs pressed out of the rod to form a snapping point intermediate said ends, an abutment spool between said lugs and an end of the rod, and an eccentric lock washer between the abutment spool and said end of the rod.

2,168,991
WEDGE FOR CONCRETE TIE RODS
Daniel C. Hungerford, Chalfont, Pa., assignor to Star Expansion Bolt Company, New York, N. Y., a corporation of Illinois
Original application July 24, 1935, Serial No. 32,864. Divided and this application September 16, 1937, Serial No. 164,151
5 Claims. (Cl. 25—131)



1. A wedge having a slot widened at one end to receive, and inclined surfaces to engage a headed form tie and longitudinal ribs bordering said surfaces at the smaller end of the wedge, said ribs being merged into the body of the wedge toward the larger end thereof.

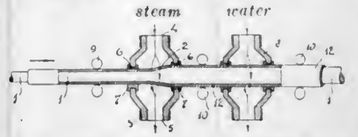
2,168,992
COMBINATION WIRE TWISTER AND TIGHTENER
Leonard Johnson, Beverly Shores, Ind.
Application June 13, 1938, Serial No. 213,548
5 Claims. (Cl. 140—119)



1. A wire twister and tightener comprising two cylinder casings, one screw-threaded inside the other, and a handle to rotate the inner cylinder, and a shoulder in the outer cylindrical casing to rotatably but non-screw-threadedly retain the inner cylinder.

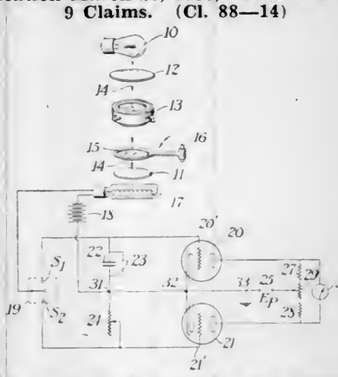
2,168,993
EXPANDING DEVICE FOR TUBULAR ENVELOPES
Alex Joseph, Amsterdam, Netherlands
Application May 14, 1937, Serial No. 142,655
In the Netherlands May 14, 1936
1 Claim. (Cl. 18—3)

Expanding device for tubular envelopes consisting of a cellulose compound such as Celluloid, comprising in combination, a mandrel in two sections differing in diameter with a conical shoulder connecting the two sections, a heating chamber surrounding the conical shoulder of the



mandrel, a cooling chamber surrounding a portion of the larger section of the mandrel and means for drawing the envelope to be expanded axially over the mandrel and through said chambers.

2,168,994
CAMERA SHUTTER TESTER
James D. Kelley, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application March 20, 1937, Serial No. 132,172
9 Claims. (Cl. 88—14)

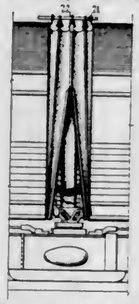


3. The method of measuring the average open time of a camera shutter which comprises illuminating the shutter, operating the shutter through one interval opening and closing it, photo-electrically receiving all of the light transmitted by the shutter and translating this light to an electric charge proportional to the total luminous energy transmitted during the shutter operation, setting the shutter at maximum opening, photoelectrically receiving the light transmitted through said open shutter and translating said last mentioned light to an electric current similarly proportional to the luminous flux when the shutter is thus set at full opening and noting the ratio of said charge to said current.

2,168,995
DIAPHRAGM CONSTRUCTION
Stanford Landell, Detroit, Mich., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application September 12, 1936, Serial No. 100,401
3 Claims. (Cl. 105—15)

2. In combination, two adjoining coupled cars and a unitary diaphragm closing the space between the adjacent ends of said cars at sides and top, means to permanently secure the diaphragm directly to fixed parts of each of the cars, the diaphragm being formed at a side thereof with a vertical slit which permits parting of the portions of the diaphragm on op-

posite sides of the slit to provide an opening affording lateral access to the space between the car ends, and quickly detachable means extending substantially throughout the length of the



slit, said means being operable for simultaneously fastening together or simultaneously releasing the portions of the diaphragm on opposite sides of said slit.

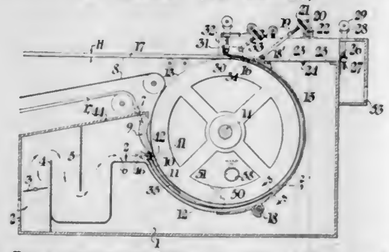
2,168,996

APPARATUS FOR MAKING PAPER

Gerould T. Lane and Wendell Butterfield, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 18, 1937, Serial No. 143,336

8 Claims. (Cl. 92—42)



5. In a paper making machine, the combination with a stuff chest in which the cylinder is revolvably mounted a stuff inlet, a plurality of stream lined partition plates forming a number of substantially concentric vat circles, the end of each vat circle being formed inwardly toward the cylinder.

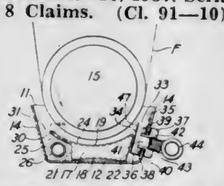
2,168,997

LIQUID APPLYING PAN

Leonard Richard Lankes and Gale F. Nadeau, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 16, 1937, Serial No. 180,186

8 Claims. (Cl. 91—10)



4. In an apparatus of the class described, the combination with a roll over which a strip of sheet material is guided, of a pan formed with a bottom positioned adjacent said roll to provide a shallow liquid conduit between said roll and said bottom, a liquid supply chamber extending substantially the full length of said bottom to continuously supply liquid to said conduit, for the full length thereof, a draw-off extending along the opposite side of said bottom for substantially the full length thereof, and an overflow edge on said draw-off positioned above said bottom to control the liquid level in said conduit.

2,168,998

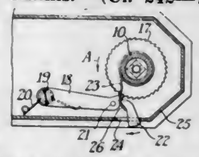
FILM WINDING MECHANISM FOR CAMERAS

Wilhelm Lindenberg, Stuttgart, Germany, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 16, 1938, Serial No. 190,776

In Germany October 22, 1937

6 Claims. (Cl. 242—71)



1. In a camera of the type utilizing roll film, the combination with a camera body, of supply and take-up spool chambers therein, a winding and a rewinding key carried one in each spool chamber, one for winding successive areas of film for exposure and the other for rewinding the exposed film, a one-way clutch for one winding key normally preventing movement of the winding key in one direction, a manually operable member for releasing the clutch for rewinding film, connections between said manually operable member and winding key for automatically engaging the one-way clutch and releasing said manually operable member actuated by turning said winding key in a direction to wind film.

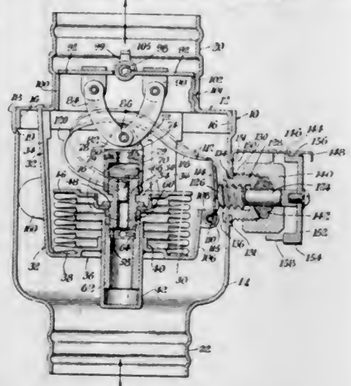
2,168,999

THERMOSTATIC CONSTRUCTION

William F. Macdonald, Bridgeport, Conn., assignor to Bridgeport Thermostat Company, Inc., Bridgeport, Conn., a corporation of Delaware

Application June 8, 1937, Serial No. 147,008

10 Claims. (Cl. 236—34)



1. A thermostatic valve construction including a housing adapted to be inserted in a liquid conduit, a hanger suspended from said housing, a bellows member on said hanger, means on said hanger for guiding the movement of said bellows member, a valve member and a valve seat, means connecting said bellows member and said valve member so that when said bellows member expands the valve part will be moved away from said valve seat, and means associated with said bellows member whereby the pressure to be overcome by said bellows member may be increased, said means including a spring member comprising a back portion pivotally supported from said hanger, and curved divergent arms extending from said back portion, said arms resting unattached on top of said bellows member with the free ends of said arms bent away from said bellows member.

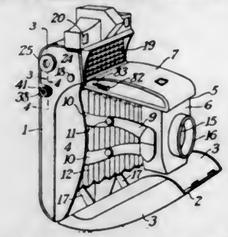
2,169,000

FILM WIND FOR FOLDING CAMERAS

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application December 15, 1937, Serial No. 179,963

5 Claims. (Cl. 95—32)



1. In a roll holding camera of the folding type, the combination with a camera body, a member hingedly attached thereto and adapted to move to and from an operative picture-taking position, a film winding key shaft, means for turning said shaft comprising an oscillatable handle carrying a latch element, a latch pivoted on the camera body and normally engaging said latch element to hold the oscillatable handle against movement, and means operably connected to the hinged member and to the handle and adapted to engage the pivoted latch for releasing said latch only when said camera parts are in a picture-taking position.

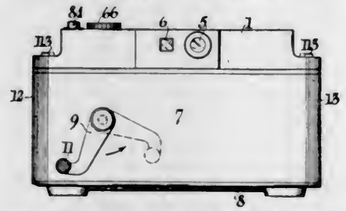
2,169,001

CAMERA SHUTTER SETTING AND FILM WINDING MECHANISM

Joseph Mihalyi, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 1, 1938, Serial No. 188,118

10 Claims. (Cl. 95—31)



1. In a roll holding camera, the combination with a camera body having an exposure frame, a camera back movably mounted on the camera body and adapted for movement to and from an operative closed position covering the exposure frame, a shutter of the setting type carried by the camera body, a movably mounted lever carried by the camera back, movable elements carried by the camera body and back and including said lever positioned to engage each other when said camera back is in an operative position and to be disengaged when said back is moved from its operative position, whereby said shutter may only be tensioned when said back is in an operative position.

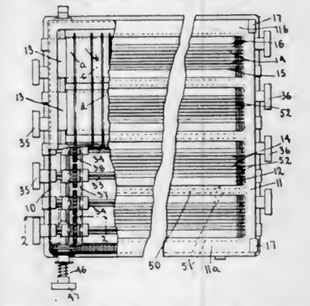
2,169,002

INDICATOR FOR MUSICAL COMPOSITIONS

Agostino C. Montardo, Boston, Mass., assignor of fifty-one per cent to Nazzareno F. Cedrone, Boston, Mass.

Application November 9, 1938, Serial No. 239,644

10 Claims. (Cl. 84—470)



1. An apparatus for indicating a musical composition comprising a casing; indicator mechanism supported within the casing; a cover to the casing having a transparent face inscribed with a plurality of staves; means for operating the indicator mechanism in relation to the staves, to indicate musical characters of different values, visible through the cover face, in relative position to the staves.

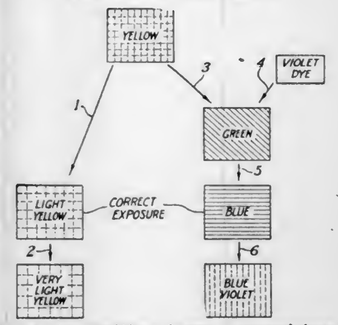
2,169,003

PHOTOSENSITIVE MATERIAL

Alexander Murray, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application March 20, 1937, Serial No. 132,081

4 Claims. (Cl. 95—7)



4. A photosensitive layer comprising a light sensitive material having a color which changes with exposure to light and a dye substantially stable under exposure to any light and of a different color whereby the apparent change in color is enhanced, the relative proportion of the dye

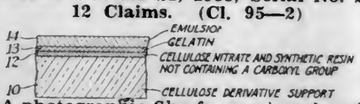
in the layer being such that the unexposed material has a hue different from that of the dye alone.

2,169,004

LOW DYE RETENTION SUB FOR PHOTOGRAPHIC FILM

Gale F. Nadeau, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application October 21, 1938, Serial No. 236,265
12 Claims. (Cl. 95—2)



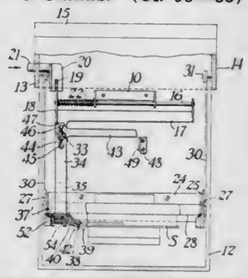
1. A photographic film for use in color photography having low dye retention subbing layers, comprising a cellulose ester support, an emulsion layer adapted to receive a colored image, and between said support and said emulsion layer, a subbing layer of a mixture of cellulose nitrate and a synthetic resin free of carboxyl groups.

2,169,005

SHUTTER RELEASE FOR FOLDING CAMERAS

August Nagel, Stuttgart, Germany, assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application May 1, 1937, Serial No. 140,236
In Germany June 17, 1936
9 Claims. (Cl. 95—53)



1. In a folding camera the combination of a camera body, a bed carried by said camera body, a shutter of the setting type carried by said bed, a setting lever on said shutter, a trigger on said shutter, a shutter release movably mounted on the camera body, an inter-connecting means movably mounted on the camera bed to operably connect the shutter release and the shutter trigger, said inter-connecting means including a member adapted to abut said setting lever when the same is not in its set position, and means for positively preventing the actuation of said shutter release prior to the setting of the shutter, which means becomes effective when said member abuts the setting lever.

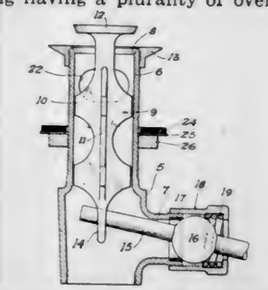
2,169,006

DRAIN FITTING

Gunnar B. Nystrom, Cleveland, Ohio, assignor to The Republic Brass Company, Cleveland, Ohio, a corporation of Ohio

Application October 26, 1938, Serial No. 237,048
1 Claim. (Cl. 4—203)

The combination of a bowl having a drain opening and an overflow opening, a drain fitting detachably secured in said drain opening and being exteriorly threaded to the extreme upper edge thereof, a flanged ring threadedly secured over the upper end of said fitting and normally disposed flush with the bottom of said bowl, a poppet valve slidably mounted in said fitting, said flanged ring having an opening therein larger than said valve whereby to permit the valve to pass therethrough, a valve seat formed on the upper end of said fitting and interiorly thereof, said fitting having a plurality of overflow openings therein disposed below and immediately adjacent said flanged ring and said bowl having an overflow passageway connected with said overflow openings, a nut threadedly secured over said fitting and cooperating with said flanged ring to secure said fitting in place, and mechanism for operating said valve.



2,169,007

METHOD OF MAKING HARD METAL BODIES

Johan Romp, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

No Drawing. Application August 1, 1938, Serial No. 222,540. In Germany August 9, 1937
2 Claims. (Cl. 75—137)

1. A method of making a hard metal body comprising the steps of compressing a pulverulent mixture of tungsten-carbide and cobalt into a molded body, embedding the molded body within a pulverulent mixture of a highly-refractory inert substance and an amount of carbon selected to produce a uniformly compact body, and heating the embedded body in a non-oxidizing atmosphere to sinter the same.

2,169,008

CYANIDE SALT BATH

Louis Sarvis, Upper Darby, Pa., assignor to E. F. Houghton & Co., Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application August 19, 1937, Serial No. 159,987
6 Claims. (Cl. 148—30)

5. A case hardening bath for iron and steel comprising alkali metal cyanide from 5% to 50%, and an inert salt molten at case hardening temperatures, to which has been added an alkali metal fluoride, the entire fluoride addition to the bath being characterized by water solubility and being present in amounts from about 2% to about 10% of the total weight of the bath, the said inert salt and alkali metal cyanide making up the balance of the bath.

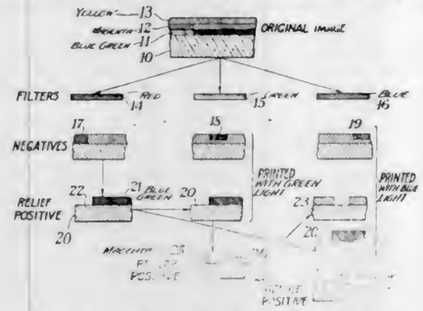
2,169,009

METHOD OF COLOR CORRECTION FOR COLOR PHOTOGRAPHY

Merrill W. Seymour, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application November 13, 1936, Serial No. 110,699
9 Claims. (Cl. 95—2)

1. The method of forming an image in natural colors which comprises making photographic color-separation negatives of an object through primary color filters, and successively printing positives therefrom in the three subtractive printing colors by using each colored positive that absorbs light of at least one primary color that it should not theoretically absorb as a mask for any of said negatives exposed by light of those primary colors of which the undesired absorption occurs, each such positive that is printed through a mask being printed with light of a color which is complementary to the color with which the final positive being printed is colored, and combining said color component positives to produce a natural-color image.



2,169,010

STILL PROJECTOR

Walter D. Teague, New York, and D'Arcy A. Young, Jr., Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 14, 1937, Serial No. 159,144
4 Claims. (Cl. 88—24)

1. In an apparatus for projecting transparencies, a base, a support pivotally secured adjacent one end thereof to said base, a lamp carried by said support, a lamp housing mounted on and movable with said support, a slotted lug secured to and depending from said lamphousing, a slotted bar slidably mounted on said support, said bar being movable into one position to bring the slot therein into registry with the slot in said lug to permit removal of said lamphousing from said support, said bar being slidable to another position to move the slot therein out of registry with the slot in said lug to lock said lamphousing on said support, and means engaging said support adjacent the other end thereof to adjust said support and said housing relative to said base.

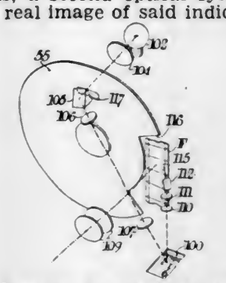
2,169,011

MOTION PICTURE APPARATUS

Raymond W. Wengel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application August 27, 1936, Serial No. 98,215
7 Claims. (Cl. 88—16)

1. In a motion picture apparatus provided with an exposure aperture the combination of a support, means for moving a film strip past said exposure aperture, an objective on said support in alignment with said exposure aperture, an indicating means on said support, a lamp mounted on said support, an optical system adapted to direct the light rays from said lamp to the indicating means, a second optical system adapted to project a real image of said indicating means through said exposure aperture, and a shutter rotatably mounted on said support adapted to intermittently interrupt the image projected by the objective and the light rays illuminating the indicating means in timed relation with the film feeding means whereby the image from the objective and the image of the indicating means are recorded on each picture frame of the film strip.



2,169,012

ESTERIFICATION OF ORGANIC ACIDS

Herbert J. West, Mount Lebanon, and Alphons O. Jaeger, Greentree, Pa., assignors to American Cyanamid & Chemical Corporation, New York, N. Y., a corporation of Delaware

No Drawing. Application September 6, 1935, Serial No. 39,503
15 Claims. (Cl. 260—469)

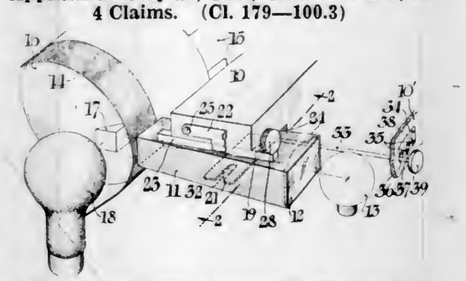
1. A method of producing an ester of a low boiling alcohol with a compound included in the group consisting of carboxylic organic acids and anhydrides capable of forming with the alcohol esters having a boiling point largely above that of water, which comprises maintaining a reaction mixture of the compound in a partially esterified condition at a temperature above the boiling point of water by small additions of alcohol without removing substantial amounts of ester from the reaction mixture until esterification has proceeded to substantial completion.

2,169,013

PHOTOGRAPHIC APPARATUS

Otto Wittel, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

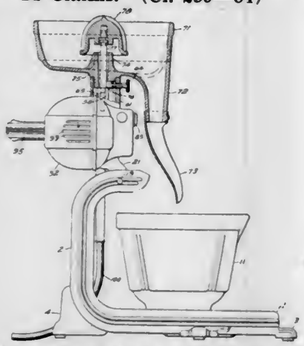
Application July 21, 1937, Serial No. 154,839
4 Claims. (Cl. 179—100.3)



1. In a sound head, a support, an optical sys-

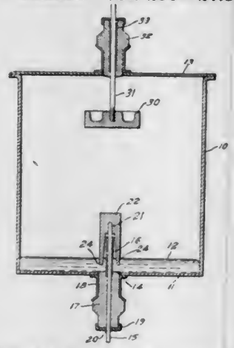
tem mount removably secured to the support, guide means on the support for determining the lateral position of said mount, means for yieldably pressing said mount against the guide means, stop means for determining the axial position of said mount, an abutment carried by said mount and adapted to engage the stop means, and releasable resilient means for biasing said abutment into firm engagement with said stop means.

2,169,014
FOOD MIXER
Christian Aalborg, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 27, 1936, Serial No. 82,064
14 Claims. (Cl. 259—84)



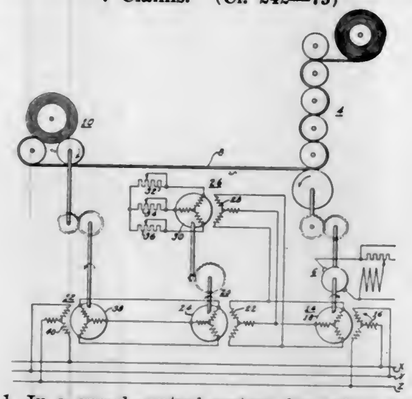
1. In a food mixer, a standard, chambered support secured thereto, a gearing housed in said support, whereby said support constitutes a gear casing for said gearing, a motor having a stator and a rotor disposed on the opposite side of said support from said gearing, a support for said stator secured to said gear casing, two bearings for said rotor, one of which constitutes part of said gear casing, and a support for the other secured to said stator.

2,169,015
AUXILIARY ELECTRODE
Walter E. Bahls, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 20, 1937, Serial No. 126,882
7 Claims. (Cl. 250—27.5)



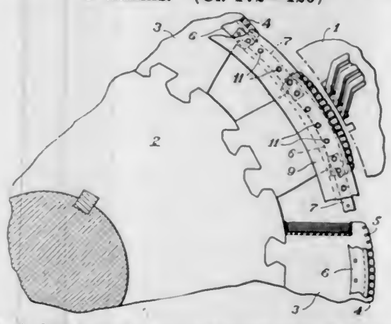
1. In a discharge device, a liquid electrode and an auxiliary electrode comprising a body having a plurality of prongs, the ends of which make a plurality of separate contacts with said liquid electrode.

2,169,016
SYNCHRO-TIE CONTROL
Rest R. Baker, Swissvale, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 17, 1937, Serial No. 180,395
7 Claims. (Cl. 242—75)



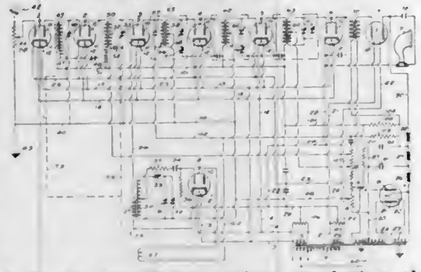
1. In a speed control system for automatically maintaining a predetermined tension on a web as it is moved by and passes between spaced roller members, variable speed means for rotating one of said roller members, frequency responsive variable speed means for rotating the other of said roller members, and means for producing a potential which is variable in frequency in accordance with the load on said frequency responsive means and the speed of said first variable speed rotating means for energizing said frequency responsive means.

2,169,017
DAMPER WINDING FOR HIGH SPEED SALIENT-POLE MACHINES
René A. Baudry, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application April 14, 1938, Serial No. 201,952
8 Claims. (Cl. 172—120)



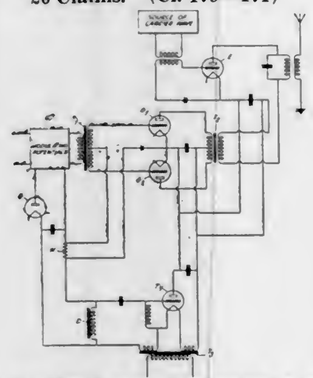
1. A dynamo-electric machine having a salient-pole rotor, damper-winding bars in the pole-face portions of the salient poles, a damper segment for the bars at each end of each salient pole, separate connectors between the several segments at each end of the machine, a strong ring at each end of the machine for taking up the centrifugal forces and for resisting distortions due to heating of the segments and connectors, and means for mechanically associating the rings with their respective segments comprising connecting-means for preventing an easy direct heat-transfer between the rings and their respective segments.

2,169,018
ELECTRIC WAVE RECEPTION
George L. Beers, Haddonfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Original application April 16, 1928, Serial No. 270,285. Divided and this application May 14, 1937, Serial No. 142,559
7 Claims. (Cl. 250—20)



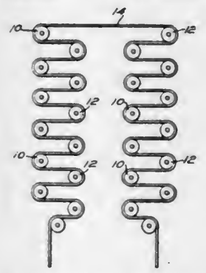
4. In an amplifying system employing electron discharge devices in cascade, said devices having control grid and other electrodes, the method of controlling amplification which comprises increasing the negative bias on the control grid electrodes of certain of said devices to produce a decrease in amplification and simultaneously increasing the positive voltage on another electrode of one of said tubes tending to increase amplification.

2,169,019
MODULATION CIRCUIT
Otto Böhm and Rudolf Hofer, Berlin, Germany, assignors to Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 29, 1933, Serial No. 678,213
In Germany July 12, 1932
26 Claims. (Cl. 179—171)



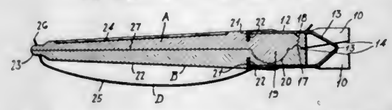
20. A signalling system including a source of carrier waves, a source of signals, means for modulating said carrier waves in accordance with said signals, and means for separately modulating said carrier waves in accordance with said signals including rectifier apparatus having grid and plate electrodes, a constant frequency alternating current power supply source connected with said grid and plate electrodes for supplying potentials of similar frequency thereto, and reactance means varying the phase relation between said potentials in accordance with said signals for causing said rectifier apparatus to supply rectified voltage from said alternating current supply source in accordance with said signals.

2,169,020
PROCESS OF MAKING RESISTOR ELEMENTS
Porter H. Brace, Forest Hills Boro, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application February 27, 1937, Serial No. 128,183
2 Claims. (Cl. 29—155.5)



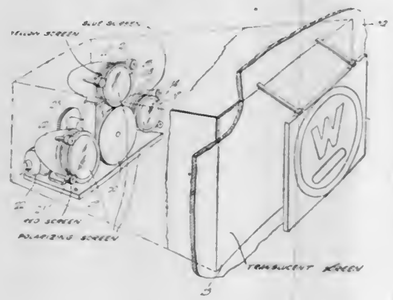
1. A process of making metallic resistor elements from an alloy comprising about 80% of nickel and about 20% of chromium for us in hot gaseous atmospheres, preforming the alloy into a strip of predetermined width and thickness, annealing the preformed strip, working the strip to plastically deform it throughout its length an amount ranging between about 2% and an amount necessary to damage the strip to render the alloy resistant to the hot gases, the plastically deformed strip being substantially of the same width and thickness as the preformed strip, and winding the plastically deformed alloy strip into a predetermined shape.

2,169,021
HAIR CURLER
Armand Caldora, Brooklyn, N. Y., assignor of one-half to Pierre Michielli, Woodhaven, Long Island, N. Y.
Application February 10, 1939, Serial No. 255,584
11 Claims. (Cl. 132—41)



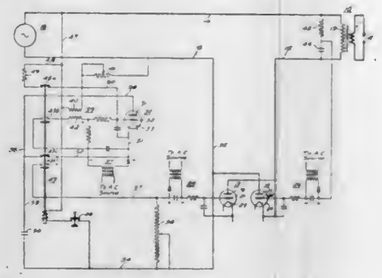
1. A hair curler comprising two elongated elements positioned side by side having a pivotal connection to one another and means to hold said elements together, said pivotal connection including a transverse groove in one element and a projection closely fitting in said groove on the other element and also a longitudinally extending recess in one element and a fin extending in said recess on the other element.

2,169,022
DISPLAY DEVICE
Lewis W. Chubb, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 2, 1937, Serial No. 145,945
18 Claims. (Cl. 40—130)



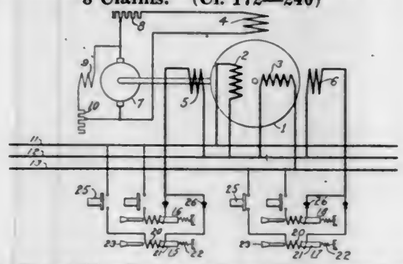
1. In an advertising device, means for producing a plurality of beams of differently colored polarized light, means for varying the relative angular displacements of the planes of polarization of the beams, and a display member comprising a light polarizing element positioned to permit the light from said beams to fall upon said display member.

2,169,023
POWER CONTROL SYSTEM
John W. Dawson, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 31, 1935, Serial No. 4,321
27 Claims. (Cl. 250—27)



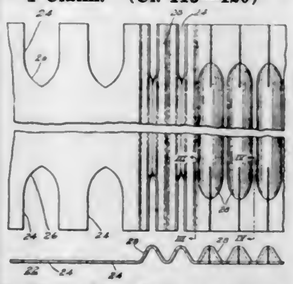
1. An electric control system including a load device disposed to be connected to a source of alternating current and comprising, in combination, main space discharge means interposed between the load device and the current source for conducting current in half cycle increments, auxiliary space discharge means, a capacitor, means for utilizing the rectifying characteristic of said auxiliary space discharge means for charging said capacitor, and means for discharging said capacitor through said auxiliary space discharge means for rendering said main discharge means conducting for a number of half cycles depending upon the rate of discharge of said capacitor.

2,169,024
REGULATION
Robert S. Elberty, Jr., Waynesboro, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 28, 1938, Serial No. 187,458
8 Claims. (Cl. 172—240)



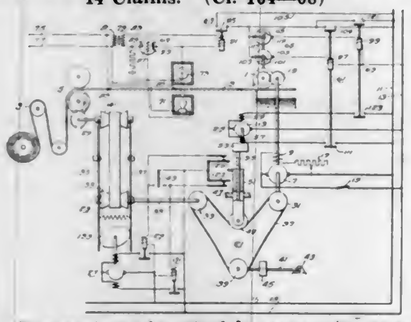
1. In combination, an alternating-current generator provided with series field windings, one or more electro-magnetic hammers, having operating coils, for impulse actuation by energy supplied to the coils from the generator, a rectifier for each hammer coil, said rectifier being separate from and independent of said generator, and means connecting a series field winding in series with each rectifier and hammer coil, to provide a compounding effect by the current of each hammer coil, thereby to provide self-regulation of the generator by each hammer, to provide proper generator voltage for which the hammers are designed.

2,169,025
METHOD OF PRODUCING CORRUGATED CASES
Allan D. Forbes, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 16, 1937, Serial No. 164,153
1 Claim. (Cl. 113—120)



In the method of producing a corrugated case for electrical apparatus, the steps comprising, forming notches in spaced relation to each other in opposite edges of a sheet metal blank, each of the notches being substantially U-shaped with an inner edge or base simulating the shape of a Gothic arch having its edges in the plane of the blank, forming corrugations in spaced relation in the sheet metal blank so disposed as to extend between the opposite edges of the blank and to wholly include a pair of the notches formed in the opposite edges of the blank within each corrugation, drawing the edges of the Gothic arch base of each of the notches in each of the corrugations together without a substantial flow of metal to close the ends of the corrugations to form tapered ends and return the outer edges of the notches to the original plane of the sheet metal blank whereby the corrugations terminate within the blank at a distance spaced from the edges thereof, and welding the edges of each of the drawn notches throughout its length to seal the corrugations and provide a solid edged blank

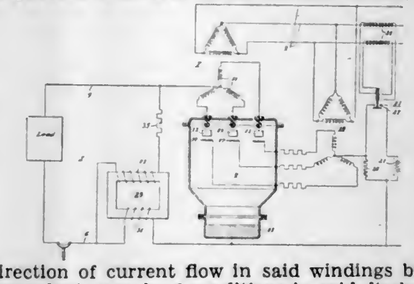
2,169,026
CUTTER REGISTER CONTROL
Finn H. Gulliksen, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application March 19, 1938, Serial No. 197,042
14 Claims. (Cl. 164—68)



1. In a system of control for apparatus operating on material, in combination, a device for effecting certain operations on the material, feeding means for feeding the material to the said device, common means for driving the said feeding means and the said device, speed control means for changing the speed relation between the said device and said feeding means, position adjusting means for changing the relative position of certain parts of the said device and the said feeding means, the said position adjusting means comprising a wheel mechanically connected to said device, a wheel mechanically connected to the said feeding means, an endless band for mechanically operatively interconnecting the said wheels, and means associated with the said endless band for changing the relative lengths of the two portions of said band interconnecting said wheels, adapted to adjust the positional relation of the said wheels to thus change the relative position of the said certain parts of the said device and the said feeding means.

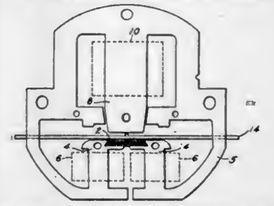
2,169,027
DISCHARGE PROTECTIVE SYSTEM
Lee A. Kilgore, Forest Hills, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 26, 1938, Serial No. 210,188
2 Claims. (Cl. 175—363)

1. In an electron discharge device protective system, an alternating-current supply circuit, electron discharge means connected with said circuit and having a plurality of anodes with associated control electrodes and a cathode, relay means responsive to faulty conditions in said discharge means for connecting blocking potential to said control electrodes, a direct-current output circuit connected with said discharge means and a reactor in said direct-current circuit, said reactor having a plurality of windings, one of said windings connected in series with said direct-current line, another of said windings connected in parallel with said direct-current circuit, the



direction of current flow in said windings being dependent upon load conditions in said discharge means.

2,169,028
WATT-HOUR METER
Richard M. Leippe, East Orange, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 10, 1937, Serial No. 152,924
8 Claims. (Cl. 171—264)

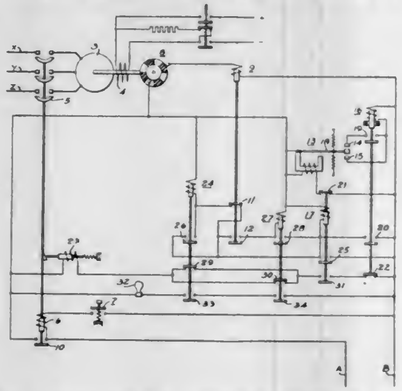


1. In an electromagnet including a pair of pole portions terminating adjacent to an armature and means for inducing a magnetic flux therein, means for shunting a portion of the induced flux from its normal path through the armature, comprising a composite shunt including a plurality of superposed elements of magnetic material magnetically insulated from each other and from said pole portions and being such that each approaches magnetic saturation at a different value of magnetic flux.

2,169,029
PROTECTIVE RELAY SYSTEM FOR SYNCHRONOUS MACHINES
Mathias Michel, Wauwatosa, Wis., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 16, 1937, Serial No. 120,928
9 Claims. (Cl. 172—289)

1. In a locked rotor protective system for a synchronous machine, in combination, a starting switch for connecting the machine to be energized from a source of power, auxiliary switch means, means for closing the auxiliary switch means when the starting switch is closed, a vibrating relay having means for making a circuit when the relay is energized and having means for alternately breaking and making said circuit for a predetermined time after being de-energized and for holding said circuit open after said predetermined time, circuit means for energizing said vibrating relay when the auxiliary switch means is closed, a slow release relay connected to be energized by said vibrating relay circuit making means and having a re-

lease time greater than the time between breaking and making of the vibrating relay circuit control means, a first relay connected in circuit to be energized when the slow release relay is energized, back contact members operated by said first relay to be opened when said first relay is energized, said back contact members being connected in circuit to control the energization of said vibrating relay, said first relay having front contact members connected in circuit to hold said first relay energized, a second relay, a third relay and a fourth relay, means governed by the rotation of the machine for alternately energizing and de-energizing said fourth relay when the machine is rotating and for holding said fourth relay either energized or de-energized when the machine is not rotating and the said starting switch is closed, a back contact member controlled by said fourth relay connected in circuit with said front contact members of said first relay and said second relay to control said second relay, said second relay



having front contact members connected in circuit with said front contact members of said first relay to hold said second relay energized, said fourth relay having front contact members connected in circuit with the front contact members of said first relay and said third relay to control said third relay, said third relay having front contact members connected in circuit with said front contact members of said first relay to hold said third relay energized, said second and third relays having back contact members which are opened when said second and third relays are energized, a second front contact member controlled by said first relay, a back contact member controlled by said slow release relay, opening means for said starting switch, a circuit including said opening means, said back contact members of said slow release relay and said second front contact members of said first relay in series with a parallel circuit having the back contact members of said second relay in one branch and the back contact members of said third relay in the other branch.

2,169,030

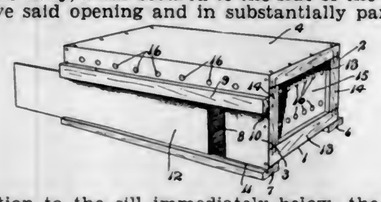
ANIMAL SHIPPING BOX

Ira C. Robrahn, Grand Rapids, Mich., assignor to American Box Board Company, Grand Rapids, Mich., a corporation of Michigan

Application August 2, 1937, Serial No. 156,895

5 Claims. (Cl. 217—42)

1. A shipping box comprising, a body having top, bottom and vertical sides and vertical ends, one of said sides having an opening therethrough, sills secured longitudinally of said body at the side edges of said bottom, said sills projecting at their outer longitudinal edge portions beyond the sides of the body, a bar secured to the side of the body above said opening and in substantially parallel



relation to the sill immediately below, the said bar and sill having grooves in their under and upper sides, respectively, and a closing member slidable in said grooves to cover or uncover said opening.

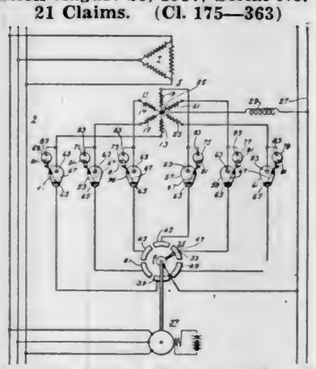
2,169,031

ELECTRIC DISCHARGE APPARATUS

Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application August 26, 1937, Serial No. 161,069

21 Claims. (Cl. 175—363)



1. In combination, a first current path, a first discharge device having an anode, a cathode of the mercury-pool type and an ignition electrode of the silicon carbide type, said anode and cathode and said ignition electrode and cathode being connected in parallel in said path, a first contact in said first path, a second current path, a second discharge device having an anode, a cathode of the mercury-pool type and an ignition electrode of the silicon carbide type, said last-named anode and cathode and said last-named ignition electrode and cathode being connected in parallel in said second path, a second contact in said second path, a third current path, a third contact in said third path, said third contact being movable relative to said first and second contacts so that it may be engaged with and is engaged from said first and second contacts, and said contacts being so arranged that said third contact is being disengaged from the said first contact when it is being engaged with said second contact and in the transition interval is in engagement with both the first and the second contacts, means for producing current flow in said first and third paths when said first and third contacts are in engagement, and means for producing current flow in said second and third paths when said second and third contacts are in engagement, said discharge devices being so connected as to prevent current flow between the first and second paths in the transition interval.

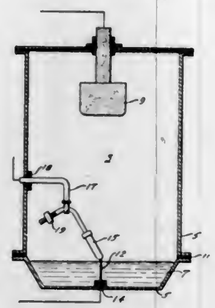
2,169,032

VAPOR-ELECTRIC CONVERTER

Joseph Slepian, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application February 26, 1938, Serial No. 192,776

5 Claims. (Cl. 250—27.5)



1. A vapor-electric converter comprising an evacuated container, an anode and a pool-type cathode therein, a cooperating electrode of high refractive material immersed in said cathode and having a portion projecting above the surface of said cathode, a starting electrode of high resistance material in point contact with the tip of the projected portion of said cooperating electrode and means for counterbalancing part of the weight of said starting electrode whereby the contact area between said cooperating electrode and said starting electrode is reduced.

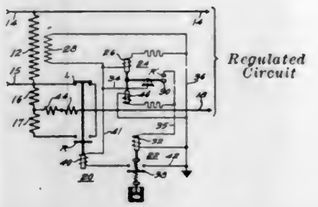
2,169,033

REGULATING SYSTEM

Franklin L. Snyder, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 23, 1935, Serial No. 12,549

9 Claims. (Cl. 171—119)



1. Voltage-adjusting means for an electrical circuit comprising a transformer having a secondary winding adapted to carry the circuit load current and a primary winding energized by the circuit voltage, a contactor having two circuit closing positions and adapted in one circuit closing position to connect said secondary winding in series-circuit relation with the circuit and in a second circuit closing position to interrupt and by-pass this connection, a primary relay, sensitive to changes in an electrical characteristic of the circuit, for controlling actuation of said contactor from one to the other of the two circuit closing positions above named, and an impedor adapted to carry the circuit load current during the period of contactor positional change and by-passed by said contactor in either of its circuit closing positions.

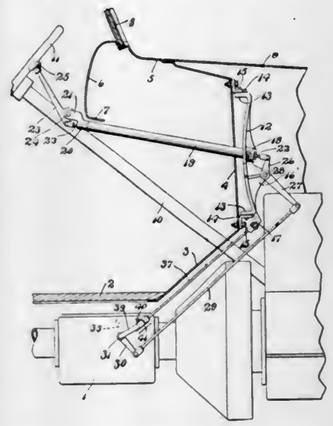
2,169,034

GEAR SHIFTING MECHANISM

Anthony Vanderveld, Grand Rapids, Mich.

Application January 23, 1939, Serial No. 252,270

8 Claims. (Cl. 74—473)



1. A gear shifting appliance for selecting and shifting slidable gears in a sliding gear transmission of a motor vehicle comprising, a support having a laterally extending member, means for mounting said support to turn about a substantially vertical axis located in front of and above the transmission gearing, an elongated member secured to said support between its ends and extending rearwardly therefrom, a rod connected to said laterally extending member extending downwardly adjacent the transmission gearing, means operated by said rod when said support is swung in one direction for making connection between a gear of the transmission to be shifted and an operating means therefor, a bell crank lever mounted on said support, a second rod connection between one arm of the bell crank lever and said operating means for shifting the gear, and a third rod connected to the other arm of said bell crank lever and extending rearwardly therefrom, combined with means pivotally mounted upon the elongated member connected to said third rod for longitudinally moving said third rod to operate the bell crank lever as specified.

2,169,035

ELEVATOR CONTROL SYSTEM

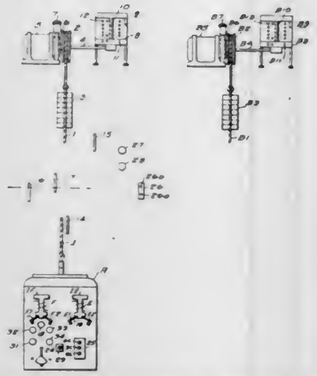
Harold W. Williams, Englewood, N. J., assignor to Westinghouse Electric Elevator Company, Chicago, Ill., a corporation of Illinois

Original application January 9, 1937, Serial No. 119,795. Divided and this application November 16, 1938, Serial No. 240,720

7 Claims. (Cl. 187—29)

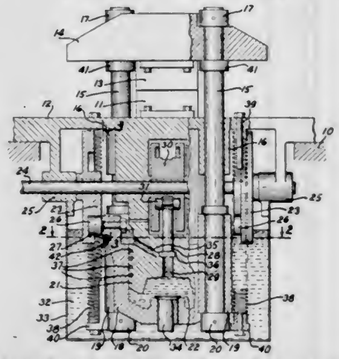
1. In a zoning system for a plurality of elevators operable past a plurality of floors; a relay per car per floor, each relay for each car when energized operable to energize the relay for the associated car for the next floor in the direction of the car's motion; means operable in accordance with the movements of each car for ener-

gizing the relay for the associated car that corresponds to the floor at which said car is posi-



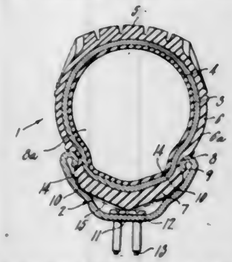
tioned; and selective means to prevent more than one relay per floor from becoming operated.

2,169,036
MATERIAL WORKING APPARATUS
Edgar M. Bidwell, Clarendon Hills, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 24, 1936, Serial No. 117,671
2 Claims. (Cl. 100—70)



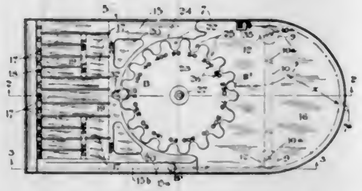
1. A material working apparatus, comprising a bed, a plurality of vertical rods slidably supported in the bed, a platen secured to the top portion of the rods, a hollow cylinder secured to the bottom portions of the rods, a cylindrical portion of the bed forming a ram within the cylinder, an enclosed bottom on the cylinder forming a chamber between the cylinder and ram, a rotating shaft, a cam on the shaft engaging the cylinder for lowering the cylinder a predetermined distance, releasing the cylinder for additional movement in the same direction and subsequently raising the cylinder to its normal position, a housing surrounding the cylinder, a supply of oil in the housing, a valve in the cylinder bottom for admitting oil to the chamber when the cylinder is lowered by the cam, a plunger mounted for vertical movement in the ram, a second cam on the shaft engaging the plunger for advancing the plunger against the oil in the chamber during the period that the cylinder is released by the first cam, and a port in the ram for conducting oil from the chamber at the termination of the hydraulic cycle.

2,169,037
PNEUMATIC TIRE
John E. Cady, Indianapolis, Ind., assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application October 7, 1936, Serial No. 104,450
5 Claims. (Cl. 152—352)



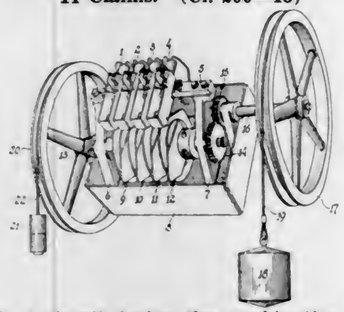
1. A single tube pneumatic tire comprising a carcass having an air chamber enclosed therein, a tread, side walls and a supporting base for engaging the tire rim, said base having a relatively thick wall of rubber composition provided with annular shoulders formed on its lateral edges at opposite sides of the tire center and adapted to contact with corresponding shoulders on the tire rim, said shoulders having substantially conical surfaces converging towards each other and in the direction of the hub center, and annular grooves formed in said base for engaging the tire rim bead at the opposite sides of the tire and on a substantially greater circle about the center of rotation than the inner circle of the air chamber about the same center.

2,169,038
BALL GAME
Frederick W. L. Carre, Lachine, Quebec, Canada
Application September 28, 1938, Serial No. 232,184
8 Claims. (Cl. 273—121)



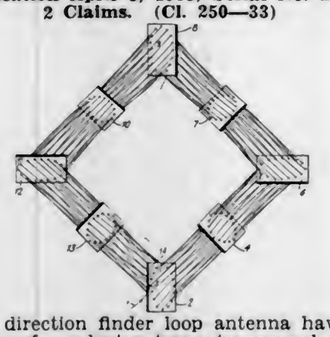
1. A game of the character described comprising an inclined game board, a freely rotatable wheel mounted on the board at a substantial distance from the upper end thereof, said wheel having its periphery indented to provide a series of numbered scoring pockets for the reception of balls projected onto the area of the board lying above the wheel and an alleyway from which the balls are projected onto the said area while the wheel is temporarily held against rotation, said game being characterized in that the wheel, when freed of restraint, is rotated about its axis by the weight of a ball, which is trapped in one of the wheel pockets, as said ball rolls down the upper portion of the board onto which it is projected from said alleyway, such rotation of the wheel serving to change the positions of the wheel pockets each time the wheel is freed for rotation subsequent to the trapping of the ball in one of said pockets.

2,169,039
CIRCUIT COMMUTATING DEVICE
John L. Defandorf, Whitefish Bay, and Howard E. Hodgson, Wauwatosa, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application October 23, 1936, Serial No. 107,154
11 Claims. (Cl. 200—18)



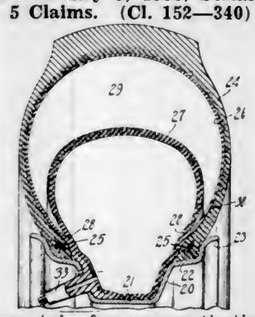
1. In a circuit device, the combination with a mercury switch supported for oscillation, of a rotary cam having high and low camming surfaces and an intermediate active surface coextensive with the space between said high and low surfaces and concentric with the axis of rotation of said cam, and operative connections between said mercury switch and said cam comprising a cam follower to engage said three surfaces, said mercury switch upon movement of said follower onto and over said intermediate active surface maintaining the circuit commutation last effected thereby.

2,169,040
LOOP ANTENNA
Benjamin L. Dolbear, Belmont, Mass., assignor to Radio Corporation of America, a corporation of Delaware
Application April 5, 1935, Serial No. 14,755
2 Claims. (Cl. 250—33)



1. A direction finder loop antenna having its winding of conductor turns transposed to give substantially zero energy pickup when said loop antenna is turned to a null position, comprising a plurality of conductor coil turns, means for accurately maintaining each conductor coil turn in a predetermined position, said means comprising a first group of four insulating corner spacing members, each one being located at a corner of said loop and having an aperture therein for each conductor turn to pass through, said apertures being arranged in the form of an ellipse, the conductor coil turns being wound so that each turn is located in an aperture on one insulating spacing corner member and progresses to an aperture in the next adjacent spacing corner member, said last mentioned aperture being spaced ninety degrees about the longitudinal axis of the loop coil in the plane of said second spacing corner member from the position of said aperture in the plane of said first mentioned spacing corner member, and a second group of insulating spacing members positioned intermediate said first mentioned insulating spacing members, an aperture in said second insulating spacing members for each conductor turn to pass through, said apertures being arranged in the form of a circle whose diameter is equal to the minor axis of said ellipse on said first mentioned insulating spacing members so as to maintain the diameter of the loop coil winding at intermediate points substantially constant.

2,169,041
PNEUMATIC TIRE
John R. Gammeter, Akron, Ohio, assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 3, 1936, Serial No. 62,090
5 Claims. (Cl. 152—340)

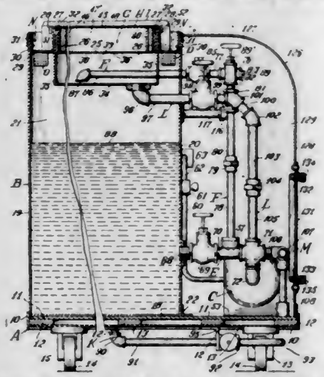


1. An inner tube for pneumatic tires comprising a regular inflatable rubber tube adapted to be disposed within a casing, means by which said regular tube may be inflated, an auxiliary inflatable multi-ply rubber and fabric tube having a portion disposed within said regular tube and connected to the latter, the threads of the fabric extending spirally normally at a long angle completely around the tube in diagonally opposite directions in the different plies, and means by which said auxiliary tube may be inflated independently of said regular tube.

2,169,042
COOLER FOR PHOTOMECHANICAL PRINTING PLATES
Robert Germe, Chicago, Ill.
Application December 7, 1938, Serial No. 244,399
15 Claims. (Cl. 62—11)

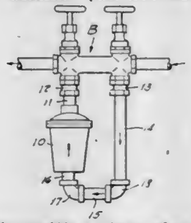
1. A cooler for cooling plates of the class described comprising a flat horizontal base, a water tank mounted on the front portion of said base, a cooling basin at the top of said tank arranged when sufficiently supplied with water to maintain a definite water level therein, means whereby overflow from said basin will pass into said tank, a grid in said basin for supporting the plate being cooled, the upper surface of said grid being at the elevation of said definite water level, a pump, an electric motor for driving said pump, said pump and motor being located on the rear portion of said base, pump connections whereby said pump will convey water from said tank to said basin, means for dispersing the water passing into said basin, a cover mounted on the rear portion of said base in the rear of said tank, said cover having a top, rear and end walls and an open front, the lower edges of said rear and end walls engaging said base and the forward

edges of said top and end walls engaging the rear wall of said tank when the cover is in place, said cover thus combining with the adjacent tank wall to enclose said motor, pump and pump connections, thereby leaving the entire device enclosed except for the grid and associated parts



at the top of the tank, all of said parts being movable about as a unit, and a door cooperating with a door opening in the rear wall of said cover adjacent to said base to give access to the pump and adjacent parts inclosed by said cover when said cover is in position upon said base.

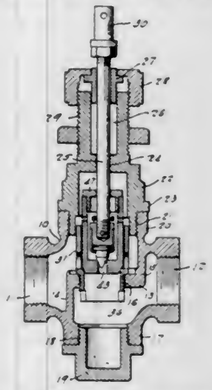
2,169,043
BYPASS VALVE
Francis Rudolph Goehring, Philadelphia, Pa., assignor to H. Belfield Company, Philadelphia, Pa., a corporation of Pennsylvania
Application November 8, 1937, Serial No. 173,382
1 Claim. (Cl. 277—57)



In combination with a piece of equipment which is to be provided with a bypass, a bypass valve assembly and connections between the bypass valve assembly and the piece of equipment, said bypass valve assembly comprising a casing formed with inlet and outlet openings, said casing also being formed with openings adjacent said inlet and outlet openings and which openings are connected to said piece of equipment by the said connections, said casing also defining a bypass between the inlet and outlet openings, a "three-way" valve opening on the inlet side of the casing, a cross valve at the outlet side of the casing, and individual operating members for said "three-way" and cross valves.

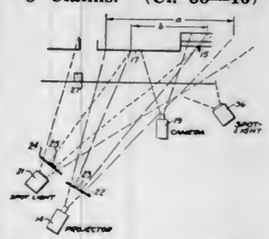
2,169,044
VALVE
Francis Rudolph Goehring, Philadelphia, Pa., assignor to H. Belfield Company, Philadelphia, Pa., a corporation of Pennsylvania
Application December 9, 1937, Serial No. 178,938
2 Claims. (Cl. 277—36)

1. A single seat valve of the character described comprising a valve casing having inlet and outlet ports with a web disposed between said ports, said web being formed with an opening, a unit fitted in said opening, said unit including a valve seat and a cylinder, said cylinder being disposed entirely within the casing and having a plurality of ports formed in the wall thereof, a piston slidable in the cylinder and



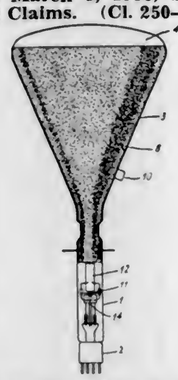
formed with a disk complemental to said seat, said disk being formed with a valve opening, and a pilot valve associated with the last mentioned opening, there being a certain amount of leakage provided for between the cylinder and piston, the said piston extending above said cylinder and formed with a plurality of ports in the wall thereof in that portion of the wall which extends above the cylinder.

2,169,045
COMPOSITE PHOTOGRAPHY
Byron C. Haskin, Beverly Hills, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware
Application November 23, 1936, Serial No. 112,193
5 Claims. (Cl. 88—16)



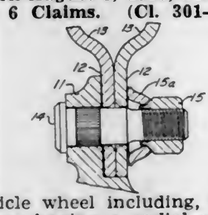
2. The method of composite photography which comprises projecting a motion picture image beam of light and a separate beam of illumination toward the same area of a background set, the central zone of said motion picture beam containing the image forming light rays, the central zone of one of said beams extending over substantially the same area of said background as the central zone of the other of said beams, light impeding the central zone of said beam of illumination and the border zone of both of said beams by amounts such that said background is illuminated with substantially the same intensity of illumination in said central zone thereof and in said border zone thereof and photographing said background set where thus illuminated by said central zones and said border zones.

2,169,046
ELECTRON TUBE
Lewis Barnard Headrick, West Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 5, 1936, Serial No. 67,249
8 Claims. (Cl. 250—164)



1. A fluorescent screen structure comprising the reaction product resulting from the chemical and thermal treatment of a mixture comprising zinc oxide, a manganese salt and a salt of an alkaline earth metal to produce a complex crystalline structure having high secondary electron emission characteristics.

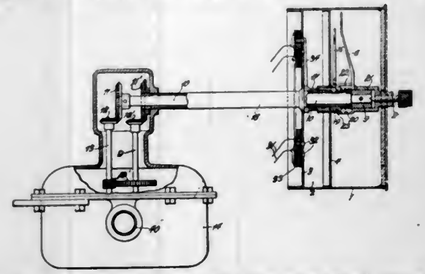
2,169,047
VEHICLE WHEEL
Harry J. Horn, Lansing, Mich., assignor to Motor Wheel Corporation, Lansing, Mich., a corporation of Michigan
Application August 5, 1936, Serial No. 94,420
6 Claims. (Cl. 301—9)



1. A vehicle wheel including, in combination, a hub flange having a radial surface, a wheel having a bolting on flange with a radial surface remote from the hub flange, the radially inner portion of the bolting on flange being of reduced thickness to the extent that the bolting on flange is flexed when it is clamped against the hub flange, and securing means for clamping the bolting on flange against the hub flange.

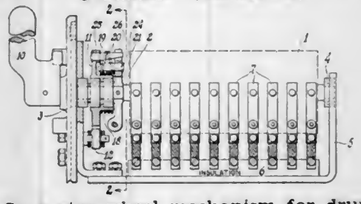
2,169,048
GASOLINE METER DIAL
Andrew F. Howe, University City, and Robert A. Bagnell, La Due, Mo.
Application October 17, 1936, Serial No. 106,150
2 Claims. (Cl. 73—198)

1. In a motor vehicle having a tank for containing gasoline, a carburetor for receiving gasoline from said tank, and a pump for causing flow of gasoline from said tank to said carburetor; meter mechanism through which said gasoline is forced by said pump to said carburetor, a shaft, gearing operated by the gasoline passing through said meter for rotating said shaft, two annular dials concentric with each other and with said shaft, an indicator attached to said shaft and cooperating with one of said dials to indicate the amount of gasoline required to fill the tank, a shaft concentric with said first named shaft and



with said dials, an indicator attached to said second shaft and cooperating with said other dial to indicate the amount of gasoline contained in the tank, and mechanism for rotating said second shaft by said gearing.

2,169,049
DRUM CONTROLLER
Richard B. Hunter, Shorewood, and Harold L. Mekelburg, Milwaukee, Wis., assignors to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application January 28, 1937, Serial No. 122,720
9 Claims. (Cl. 200—6)

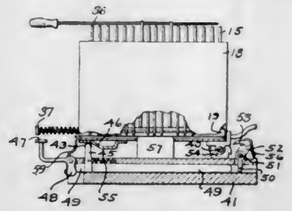


1. In a star wheel mechanism for drum controllers and the like, in combination, a rotatable contact carrying shaft, a star wheel supported by said shaft for rotation with respect thereto, a member spring biased into cooperative relationship to said star wheel to bias the latter toward one or another of a plurality of rotary positions, a handle fixed to said shaft for effecting rotation thereof, means providing a lost motion connection between said handle and said star wheel, said means comprising a pair of projections interposed between said handle and said star wheel and respectively connected thereto, a coiled torsion spring surrounding said shaft and having its free ends arranged to normally bias said projections into a given relationship to each other, the arrangement being such that the lost motion is taken up upon a predetermined degree of angular movement of said handle in either direction to provide a positive driving connection between the same and said star wheel, said torsion spring being adapted to restore said projections to their normal relationship upon movement of the active peak of said star wheel into a dead center relationship with said spring biased member, whereby movement of said star wheel out of said dead center relationship is insured.

2,169,050
SORTING AND CLASSIFYING OF FLAT SHEETS, TALLIES, CARDS, OR THE LIKE
Merton A. Johnston, Indianapolis, Ind.
Application December 8, 1936, Serial No. 114,817
8 Claims. (Cl. 129—16.1)

6. In a card sorting system for cards having

variably notched margins, a card receiving box, liftable bars extending across the box, means shiftably carrying the box and a relatively fixed member over which the box may be shifted, said



box being open on its under side whereby said member will selectively strike and lift said bars and may shift cards not notched to correspond with the relative position of that member as the card containing box may be shifted thereover.

2,169,051

REDUCING-SUGAR PRODUCT

David P. Langlois, Decatur, Ill., assignor to A. E. Staley Manufacturing Company, Decatur, Ill., a corporation of Delaware

No Drawing. Application March 19, 1937, Serial No. 131,938

7 Claims. (Cl. 127—38)

1. The process of producing a starch hydrolysis product, which comprises subjecting a starch suspension to saccharification in the presence of a molybdenum catalyst.

7. A starch conversion product, comprising a non-crystallizing solution of reducing sugar produced by acid hydrolysis of a starch suspension in the presence of a molybdenum compound, said product having a dextrose equivalent content of between 65 and 70 per cent, a fermentable extract content of more than 62.5 per cent, and a lower specific rotation than that of a liquor of equivalent dextrose equivalent content converted in the absence of said molybdenum compound.

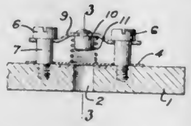
2,169,052

CHECK VALVE

Ernest E. Lindsey, Los Angeles, Calif.

Application September 13, 1937, Serial No. 163,581

1 Claim. (Cl. 251—119)



A check valve comprising a base plate having a valve port therein and an annular channel in said base plate surrounding said port to provide an annular valve seat around said port, a thin flexible valve extending across said port and registering on said seat, said valve being substantially longer than wide and having apertures near each end thereof, a headed stud passing through each of said apertures and entering said base plate, said studs being of substantially lesser diameter than said apertures, a coil spring of substantially the same diameter as said annular seat and bearing directly on said valve over said seat and coaxial with said seat, and inflexible spring retaining means mounted on said studs and positioning said spring under tension, said spring being the sole controlling force on said valve whereby said valve may tilt freely with respect to said base to angles limited only by the space between said studs and the edges of said apertures, and simultaneously rise and flex.

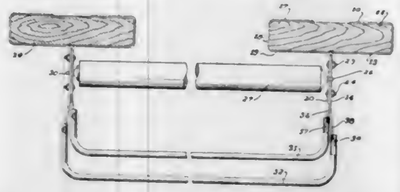
2,169,053

WINDOW SHADE AND CURTAIN SUPPORT

George E. Lowe, Indianapolis, Ind.

Application April 9, 1938, Serial No. 201,032

3 Claims. (Cl. 248—263)



3. A bracket having support engaging means, and a pair of side by side outwardly extending tongues, one terminating forwardly of the other and one carried laterally out of alignment with the other, each of said tongues having means to receive thereover and retain curtain or drapery hangers, said bracket being in two parts with one of said tongues extending from one part and the other tongue from the other part, and means drawing said parts one toward the other, said support engaging means comprising opposing tongues, one on each of said parts.

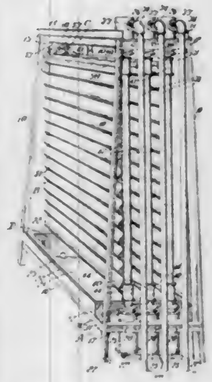
2,169,054

LIQUID TREATING APPARATUS

Julius J. Mojonnier, Oak Park, Ill., assignor to Mojonnier Bros. Co., a corporation of Illinois

Application January 2, 1931, Serial No. 506,164

13 Claims. (Cl. 257—187)



10. A heat exchanger for liquids such as milk comprising a plurality of vertical groups of heat exchange sections arranged side by side and hinged to swing sidewise outwardly from said side by side positions to render the sections accessible for cleaning, the sections in each vertical group being independently movable sidewise, and connections by which different heat exchange mediums are supplied to the different sections of the vertical groups.

2,169,055

PERFUME FIXATIVE

Ellsworth Byron Overshiner, Chicago, Ill., assignor, by mesne assignments, to Shellmar Products Company, Mount Vernon, Ohio, a corporation of Delaware

No Drawing. Application March 29, 1937, Serial No. 133,657

2 Claims. (Cl. 167—94)

2. A sheet of non-fibrous perfume fixative comprising a dried pellicle of cellulose acetate containing an essential oil, diethyl phthalate and diacetone.

2,169,056

METHOD OF ADAPTING SHEET METAL FOR SCREWS

Bion C. Place, Detroit, Mich., assignor to Prestole Devices, Inc., Detroit, Mich., a corporation of Michigan

Application April 26, 1937, Serial No. 139,081

10 Claims. (Cl. 29—148)



1. The method of preparing a sheet metal structure for self-locking threaded engagement by a screw, which consists in first forming an exteriorly concave sided bulbous protuberance to a substantial depth in the sheet metal, then punching a hole through the top of said protuberance so that the cut surface forming the wall of said hole is disposed substantially perpendicular to the normal plane of the metal sheet, and then slitting said protuberance radially and shaping said wall so that it is disposed on a helix spaced in its entirety above the top surface plane of said structure and having a pitch substantially exceeding the thickness of the sheet of metal.

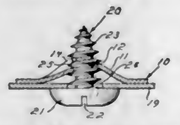
2,169,057

ADAPTING SHEET METAL ELEMENTS FOR SCREWS

Bion C. Place, Detroit, Mich., assignor to Prestole Devices, Inc., Detroit, Mich., a corporation of Michigan

Application April 16, 1938, Serial No. 202,560

4 Claims. (Cl. 85—32)



3. The method of adapting a sheet metal structure for the reception of a screw, which consists in pressing a protuberance in the metal, then forming an opening in the center of the protuberance, then shaping the wall of said opening to form a helical thread, and providing an offset web in the metal of the protuberance adjacent said opening between the high and low points of said thread.

2,169,058

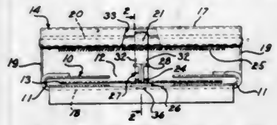
TAPE SERVING MACHINE

Stanley Price, La Grange, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 1, 1937, Serial No. 161,922

7 Claims. (Cl. 271—2.5)

1. An adaptable feeding device for tape serving machines for feeding plain tape, or tape having spaced formations corresponding to predetermined lengths thereof, comprising a tape feeding carriage supporting a tape gripping shoe with a normal tendency to engage the tape, a tape feeler dog fulcrumed on said shoe, and means effective for retaining said feeler dog in



a plurality of adjusted positions, said dog cooperating with the spaced tape formations in one adjustment thereof to control the engagement of the shoe with the tape, said dog in another adjustment when plain tape is to be fed permitting the shoe to constantly engage the tape.

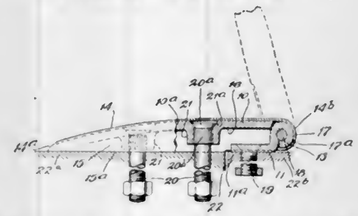
2,169,059

HINGE

Joseph Soss and Henry Soss, Roselle, N. J.

Application March 24, 1937, Serial No. 132,705

6 Claims. (Cl. 16—148)



3. A hinge for mounting upon outer surfaces of stationary and swinging supports comprising two butts having interengaging knuckles with a pintle passed through said knuckles, one butt having a short attaching plate portion and the other a long attaching plate portion, the attaching plate portion of the last mentioned butt having spaced tubular parts projecting from the inner surface of said plate for receiving fastening devices in attaching the butt to its support, a hood arranged upon and secured to the second named butt and concealing substantially the entirety of said butt including the attaching devices when the butt is secured to its support and in closed position, and said hood having a curved portion encircling and substantially concealing the knuckles of both butts when the hinge is in closed position.

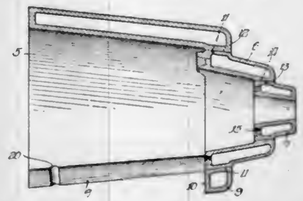
2,169,060

CINDER NOTCH COOLER

Karl Steinbacher, Portsmouth, Ohio

Application March 5, 1938, Serial No. 194,153

3 Claims. (Cl. 122—6.6)



1. A furnace wall opening hollow cooler comprising a cooler body generally frusto-conical in shape having its smaller end in the form of an unbroken circle and having a hollow removable

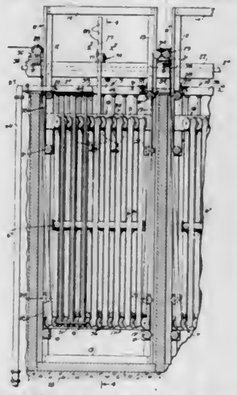
section of substantial arcuate and axial extent, said section forming a portion of the larger end of the body and meeting a radial inner face of the circular section adjacent the small end of the body.

2,169,061

CONTINUOUS-FILM-TREATING APPARATUS

Albert W. Tondreau, Glendale, Calif., assignor to Warner Bros. Pictures, Inc., New York, N. Y., a corporation of Delaware

Application May 2, 1938, Serial No. 205,577
15 Claims. (Cl. 95—94)



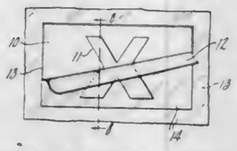
1. Film treating apparatus comprising two spaced sets of film spools for guiding a film thereover in a looped path, the axes of rotation of the spools in one of said sets being disposed at substantially 45° to the length of said set and at substantially 90° to the axes of the spools in the other of said sets, means forming jets for directing film treating liquid against the surface of the film on opposite sides of said film path, a roller intermediate said sets of spools and adapted to be engaged on diametrically opposed points on the circumference thereof by the opposite strands of each of a plurality of loops of said film, and means for rotatably supporting said roller.

2,169,062

METHOD OF SURFACE-TREATING LABELED ARTICLES

Thomas H. Way, Montreal, Quebec, Canada, assignor, by mesne assignments, to United States Rubber Company, New York, N. Y., a corporation of New Jersey

Application February 1, 1938, Serial No. 188,043
20 Claims. (Cl. 216—62)



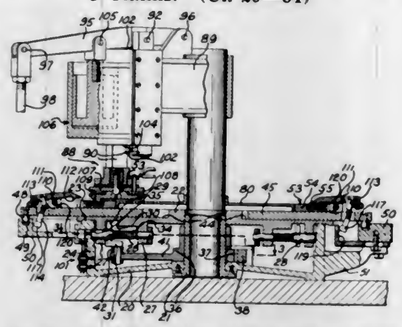
1. The process of surface treating an article which comprises applying the back of a label to the surface of the article, the face of said label having a readily removable protective film deposited thereon from a fluid medium, surface treating desired portions of the surface of the article and also portions of the surface of the protective film, and subsequently removing said film from the face of the label.

2,169,063

APPARATUS FOR ASSEMBLING PARTS

Earl Wensley and John S. Stull, Chicago, Ill., assignors to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application September 11, 1935, Serial No. 40,044
5 Claims. (Cl. 29—84)



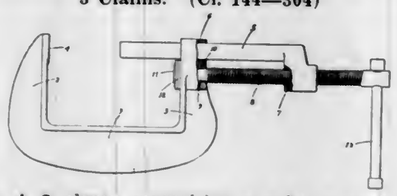
1. In an apparatus for assembling conductor terminals upon an insulating support, the latter having a coating of thermosetting bonding material upon one face to which terminals are adhered, an intermittently rotatable work carrier having a plurality of work supporting seats for the insulating supports, a plurality of groups of spaced guides associated with each seat for positioning a plurality of terminals in predetermined single plane side by said spaced relation with each other upon a support, movable means carrying a supply of terminals at one position of said carrier cooperating with said terminal guides upon movement thereacross for discharging terminals successively between said guides and upon the support positioned on its seat in a preceding position of said carrier, a heating and pressing head operable upon the terminals in a following position of said carrier to apply heat and pressure to the terminals to soften the bonding material on the support, bring the assembly to a desired overall height and adhere the terminals to the support, actuating means for imparting intermittent rotary motion to said carrier to progressively advance the work supporting seats to successive positions to complete a cycle of operations, and means responsive to each operation of said actuating means for operating said heating and pressure head in timed relation to the intermittent motion of said carrier.

2,169,064

C CLAMP

John E. Williams, Merced, Calif.

Application June 14, 1938, Serial No. 213,713
3 Claims. (Cl. 144—304)



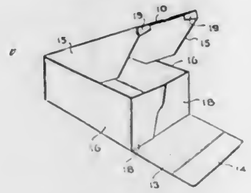
1. A C clamp comprising a yoke, a work engaging face on the inner edge of one leg of the yoke, a rod slidably projecting through the other leg for movement to and from the face and at substantially right angles thereto, and whose end adjacent said face forms a cooperating work engaging face, a handle actuated screw rotatably mounted on and projecting outwardly from said other leg of the yoke parallel to the rod, the screw being longitudinally immovable relative to the yoke, and means between the rod and screw to slide the former upon rotation of the latter.

2,169,065

FOLDING BOX

Harry E. Cole, Akron, Ohio, assignor to John T. Johnson, Akron, Ohio

Application June 22, 1936, Serial No. 86,447
7 Claims. (Cl. 229—36)



1. A folding box, comprising a one-piece blank including a top, a closed end, a bottom, and an end closure, in line through the center of the blank, a pair of side walls on said bottom, interlocking flaps on the opposite ends of said side walls, a second pair of side walls on said top, short free lugs on the outer ends of said second pair of side walls, and a tab on said end closure adapted to engage between said lugs and said top whereby the box may be securely locked in folded position.

2,169,066

PREPARATION OF SODIUM CHLORATE AND SODIUM CHLORITE AND THE SEPARATION THEREOF

George Lewis Cunningham, Niagara Falls, N. Y., assignor to The Mathieson Alkali Works, Inc., New York, N. Y., a corporation of Virginia

Application July 1, 1938, Serial No. 216,890
11 Claims. (Cl. 23—85)

1. A process for the preparation and separate recovery of sodium chlorate and sodium chlorite which comprises introducing chlorine dioxide in an amount sufficient to produce a substantially neutral solution into an aqueous solution containing sodium hydroxide, adjusting the temperature of the solution to about 30° C., separating the resulting precipitated sodium chlorate, diluting the remaining solution until the concentration of sodium chlorate therein is less than the maximum solubility of sodium chlorate in the presence of the sodium chlorite and water in the solution at a temperature of about 5° C., cooling said solution to about 5° C. and separating the resulting precipitated sodium chlorite in the form of the trihydrate.

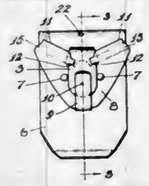
6. A process for the preparation and separate recovery of sodium chlorate and sodium chlorite which comprises introducing chlorine dioxide in an amount sufficient to produce a substantially neutral solution into an aqueous solution of sodium hydroxide, adjusting the temperature of the solution to about 30° C., separating the precipitated sodium chlorate, adding sodium chlorite trihydrate to the resulting solution, heating the solution to a temperature of about 45° C., and separating the precipitated anhydrous sodium chlorite.

2,169,067

ATTACHING DEVICE FOR MINER'S LAMP

Albert Dorsey, Martins Ferry, Ohio

Application July 15, 1938, Serial No. 219,378
4 Claims. (Cl. 240—60)



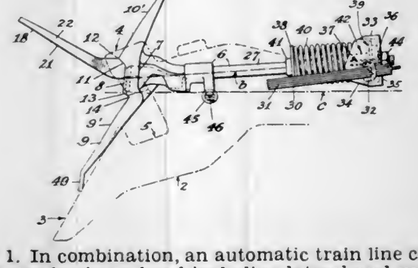
1. Supporting means for miners' lamps, comprising in combination with a lamp having a supporting hook and a cap having a lamp supporting plate in front of the crown of said cap, a tongue formed on said plate and extending upwardly substantially parallel to the latter, convergently inclined lips formed on the upper edge of said plate, and a slot provided in said lips into which the hook of the lamp may be inserted and then depressed into frictional seating relation between the plate and the tongue.

2,169,068

TRAIN LINE CONNECTOR

Wilhelm Kaiser and Hans Balke, Lichtenberg, Berlin, Germany, assignors to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio

Original application March 4, 1935, Serial No. 9,156. Divided and this application May 2, 1935, Serial No. 19,348
2 Claims. (Cl. 213—76)



1. In combination, an automatic train line connector having a head including lateral and vertical gathering wings, and a rearwardly extending shank, and a coupler from which said connector is resiliently suspended, said connector being normally disposed entirely at one side of the vertical plane of the longitudinal center line of said coupler with the rear of the connector at a greater distance laterally from said plane than is the forward face of said connector.

2,169,069

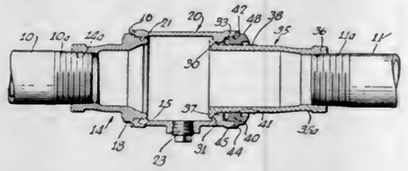
PIPE UNION AND FITTING

Irving Kaufman, Bronx, N. Y., assignor of one-third to Simon Kaufman and one-third to Thomas W. Bieder, both of Bronx, N. Y.

Application March 17, 1938, Serial No. 196,440
1 Claim. (Cl. 285—13)

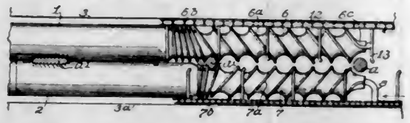
A coupling for two pipe sections comprising a sleeve having an inwardly directed flange at one end thereof and an internal tapered recess exteriorly of the flange, internal threads at the other end of the sleeve, an externally threaded coupling member having a flange at one end

thereof adapted to be inserted through the threaded end of the sleeve for seating the flange of



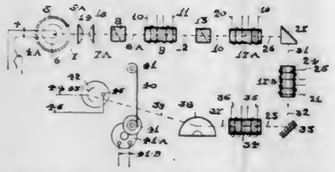
the sleeve, and a coupling nut having a tapered exterior surface engaging the threads of the coupling member and wedgingly engaging the tapered surface of said sleeve.

2,169,070
CORN HARVESTER
Henry J. Kuhlman, Waterloo, Iowa, assignor to Kuhlman Manufacturing Company, Waterloo, Iowa, a corporation of Iowa
Application August 28, 1936, Serial No. 98,305
4 Claims. (Cl. 130—5)



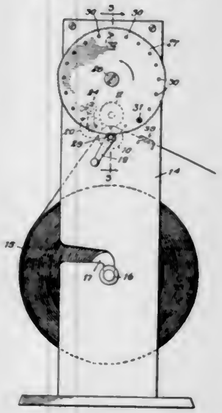
1. In a corn harvester, a snapping roll having a helical groove extending rearwardly from its forward end, the rear end portion of the groove being reduced in pitch and depth, and the major and forward portion of the groove being of uniform pitch and depth.

2,169,071
TELEVISION SYSTEM
Howard J. Murray, New York, N. Y.
Refiled for abandoned application Serial No. 473,525, August 7, 1930. This application October 16, 1936, Serial No. 105,939
25 Claims. (Cl. 178—6)



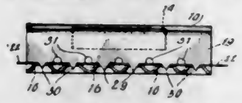
1. A picture reception apparatus comprising a source of light, means for reflecting the said light, optical means for desirably directing the said light, stationary means for polarizing the said directed light, a plurality of stationary means for creating a resultant magnetic field of flux designed to rotate the plane polarization of the said directed polarized light, stationary means for analyzing the said light as its plane polarization is rotated through a given analyzing plane by the action of the said resultant magnetic field of flux, a second magnetic means arranged for magnetically rotating the plane polarization of the said analyzed light due to the action of its magnetic flux, means constituting a stationary universal polarized light analyzer formed to include a plurality of ruled line reflecting surfaces, means for creating a third named magnetic field producing means designed similar to the second named magnetic flux creating means so as to produce a flux in phase opposition to the flux produced by the said second named magnetic means thereby to rotate the said sequentially analyzed light to its relatively original plane polarization, a third stationary analyzer designed to analyze the said light while being rotated by the third named magnetic field as it passes through the said original plane polarization, a fourth named means for creating a magnetic field of flux designed to rotate the plane polarization of the portions of polarized light as analyzed by the said second named stationary analyzer, a fourth named universal analyzer designed to synchronously reflect the elementary portions of the said light as they are plane rotated by the magnetic flux created by the said fourth named magnetic means according to the characteristics of the said flux and thus direct the same in a sequential manner to a light sensitive element positioned in the path of the said reflected light, means constituting the said light sensitive element, and means for including the said light sensitive element as a portion of a circuit organization.

2,169,072
PAPER DISPENSER
Marshall H. Muse, New York, N. Y.
Application March 4, 1938, Serial No. 193,819
1 Claim. (Cl. 93—1)



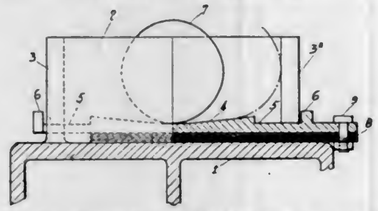
A paper dispenser of the type described comprising a frame having means for supporting a paper supply roll, a pair of feed rollers mounted on the frame and adapted to feed the paper from the supply roll, means for rotating the feed rolls, a shaft mounted on the frame and parallel to the axis of the feed rolls, a creasing roller adjustably mounted on the shaft in engagement with one of the feed rolls so as to impress a crease in the paper, and means for limiting the rotation of the feed rolls so as to provide for the feeding of a predetermined length of paper, said last-named means comprising a member mounted on the frame and operatively connected to the feed-rolls so as to rotate therewith and provided with a plurality of uniformly spaced apertures arranged in a circle concentric with the mounting, a stop mounted on the frame and a removable pin co-operable to be inserted in any one of the apertures and to engage the stop after the member and rolls have rotated a predetermined distance so as to limit the rotation thereof.

2,169,073
FILM CLIP
Walter H. Pleiss, Ludington, Mich., assignor to Burke & James, Inc., Chicago, Ill., a corporation of Illinois
Application December 1, 1938, Serial No. 243,373
8 Claims. (Cl. 24—259)



4. A film clip embodying co-operating jaws one of which is provided with laterally offset tubular bosses, the other jaw being provided with a set of projections adapted to enter said bosses, an additional set of projections on the last said jaw intermediate the first said projections for engagement with the other jaw outside of said bosses to limit the extent to which the first said set of projections will enter the said bosses, one of the said sets of projections being of a greater length than the other set.

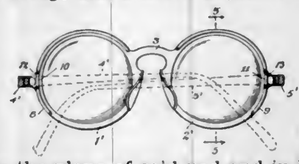
2,169,074
SIDE BEARING
Arthur B. Severn, Pittsburgh, Pa., assignor to A. Stucki, Pittsburgh, Pa.
Application September 7, 1938, Serial No. 228,757
5 Claims. (Cl. 308—226)



1. In an adjustable side bearing in combination, a housing including a base, opposite side walls extending upwardly from said base, end walls constituted as opposing flanges on said side walls and an open top, a roller bearing plate disposed between said housing side walls and comprising a central portion providing support for a roller, narrowed intermediate portions extending between and beyond said opposing flanges at each end of said side walls, and end portions adapted to engage said flanges to position the bearing plate longitudinally of said housing, said flanges at one end of said housing being spaced above said base, shims disposed in the opening formed by spacing the flanges above said base and extending within said housing beneath said bearing plate central portion, an extension on one of said bearing plate end portions, and detachable means connecting said shims and extension.

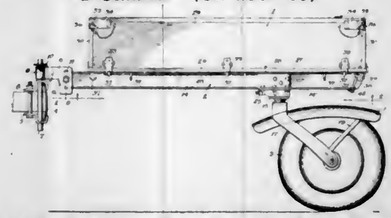
2,169,075
ANTIGLARE SHIELD FOR GOGGLES AND SUNGLASSES
Joseph Shyer, Belle Harbor, N. Y., assignor to Zylo Ware Corporation, New York, N. Y., a corporation of New York
Application March 23, 1938, Serial No. 197,595
2 Claims. (Cl. 2—12)

1. The combination with goggles provided with a pair of lens frames having a nose bridge and a pair of temples pivotally connected to the frames, of a shield for each frame conforming in shape to the peripheral part of the frame and presenting an arc-shaped structure including more than a half circle, each of said shields merging at one end into a nose pad positioned below said nose bridge and a notch adjacent the other



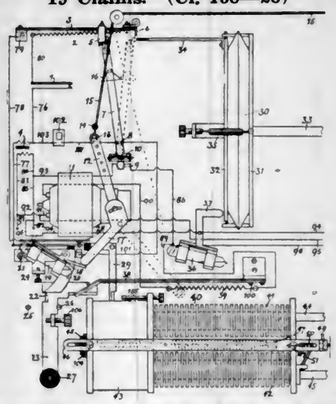
end above the plane of said pad and in line with the pivotal mounting of said temples for permitting said temples to be folded to extend through said notches and rest against said frames immediately above said pads.

2,169,076
FOLDING TRAILER
Sam Silverstein, New York, N. Y., now by judicial change of name Sam Barton
Application June 9, 1937, Serial No. 147,186
4 Claims. (Cl. 296—35)



1. A trailer comprising a body formed with a bottom, a pair of flange members secured to said bottom, a chassis having a pair of swinging bars adapted to be moved to an interlocked position with said flange members, means for removably holding said bars interlocked with said flange members, a caster wheel structure connected with said chassis near the rear part thereof, and means at the front for connecting the trailer with the rear part of an automobile.

2,169,077
AUTOMATIC ELECTRIC CONTROL FOR LIQUID FUEL BURNERS
Hubert S. Turner, New York, N. Y.
Application June 24, 1936, Serial No. 86,999
19 Claims. (Cl. 158—28)



1. An automatic electrical control for fuel burn-

ing mechanism and a combustion chamber, air and fuel supply means for said chamber, means for controlling the passage of said fuel to said chamber, means to ignite said fuel in said chamber, means directly responsive to pressure changes from said air supply means operable to permit flow of said fuel to said chamber in response to normal pressure and to stop the flow of fuel in response to abnormal pressure from said air supply means without stopping the flow of air therefrom.

2,169,078

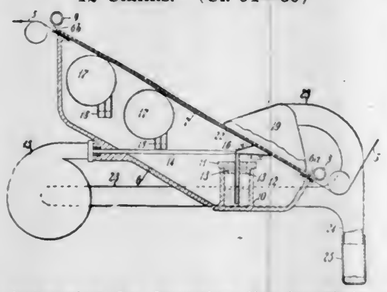
BRONZING AND THE LIKE

Wilfred Waite, London, England, assignor to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey

Application May 7, 1937, Serial No. 141,238

In Great Britain May 18, 1936

12 Claims. (Cl. 91—59)



7. Apparatus for bronzing the imprints on a cigarette wrapper or other web, comprising a chamber, means for passing a web of indefinite length continuously through an upper zone of the chamber in an upwardly inclined direction, means within the chamber for creating a spray of bronze dust and projecting it from beneath onto the imprints on the under surface of the traveling web, means to overlie the web to support it against the air pressure, and means to guide the web along its traveling margins.

2,169,079

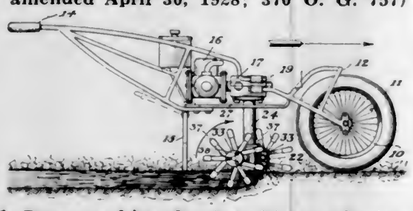
TRENCHING MACHINE

James H. Bosworth, Sandpoint, Idaho, and Oscar Gordon Conrad, Missoula, Mont., dedicated to the free use of the People in the territory of the United States

Application August 29, 1938, Serial No. 227,376

4 Claims. (Cl. 37—80)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In a machine for trenching, a horizontal shaft mounted for rotation on said machine, a pair of hubs, each flanged at both ends, a plurality of hammers pivoted between the flanges of each of said hubs, said hubs being mounted on the ends of said horizontal shaft, means for rotating said shaft, and means for varying in a horizontal plane the angular relation of said shaft with respect to the ground to be trenched.

2,169,080

SUPPORTING HARNESS FOR PAILS

Robert K. Clark, Flossmoor, Ill.

Application July 14, 1937, Serial No. 153,596

1 Claim. (Cl. 224—5)



A supporting harness for a receptacle, comprising two straps arranged to pass over the shoulders of the wearer, the lower front ends each having a fastening device loop and a strap carrying loop therein, a mechanical fastening device secured to the fastening device loop of each strap, said straps crossing at the back of the wearer and being brought down forwardly under the arms, one passing through the strap-carrying loop in each of said ends and adjustably secured to the other to permit lengthening or shortening of the harness as a whole, to vary the height of said receptacle with respect to the wearer, and a transverse strap secured to said two straps below the rear intersection thereof.

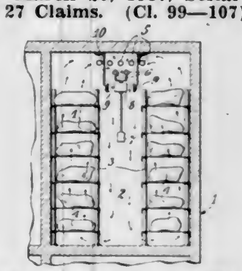
2,169,081

PROCESS FOR THE TREATMENT OF MEAT AND THE PRODUCT THEREOF

Robert F. James, Mahwah, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application March 20, 1937, Serial No. 131,987

27 Claims. (Cl. 99—107)



2. The method of treating meat, comprising holding the same at a temperature of approximately 55° F. until internal changes have progressed to a point of desirable tenderness, without spoilage, while simultaneously inhibiting the development of surface growths by irradiating said meat with ultra-violet light substantially restricted to the range of between about 2500 and 3000 A. U.

15. As a new article of manufacture, a product produced in accordance with the method of claim 2.

2,169,082

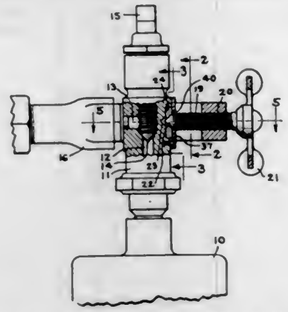
TANK STABILIZER FOR ANESTHETIZING MACHINES

Eugene J. Stevens and Jay A. Heidbrink, Minneapolis, Minn., assignors to The Ohio Chemical and Manufacturing Company, Cleveland, Ohio, a corporation

Application August 29, 1938, Serial No. 227,307

6 Claims. (Cl. 285—108)

1. In combination with the valve head of a gas tank and the securing yoke of a gas administering machine, means for securing the valve head in gas tight manner within the yoke, including



means thereby caused to move laterally within the yoke and engage the inner side walls thereof to clamp the valve head thereto.

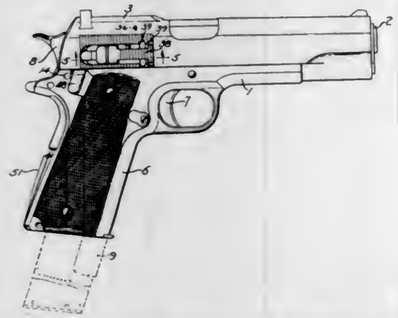
2,169,083

AUTOMATIC FIREARM

William L. Swartz, Wethersfield, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Application June 14, 1937, Serial No. 148,073

10 Claims. (Cl. 42—69)



1. An automatic firearm comprising in combination, a frame, a barrel, a bolt automatically reciprocable upon firing, a firing member, a sear for holding the firing member in cocked position, trigger mechanism, means for preventing doubling of shots, and adjustable means on the bolt affecting the operation of the first-mentioned means for rendering the same operative or inoperative whereby the firearm may be selectively operated in either a semi or fully automatic manner.

2,169,084

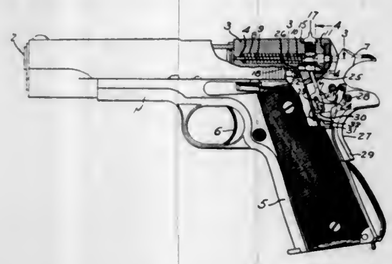
FIREARM

William L. Swartz, Wethersfield, Conn., assignor to Colt's Patent Fire Arms Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Original application April 13, 1937, Serial No. 136,630. Divided and this application July 26, 1937, Serial No. 155,609

7 Claims. (Cl. 42—70)

1. The combination with a firearm including a frame, a firing pin, and a grip portion, of a firing pin safety lock, rectilinearly slidable means



for moving the lock, and a grip safety movable to operate said slidable means.

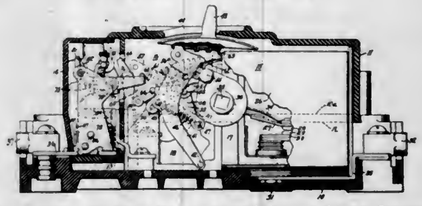
2,169,085

CIRCUIT BREAKER

Winfield A. Atwood, Yeadon, Pa., assignor to General Electric Company, a corporation of New York

Application December 17, 1936, Serial No. 116,413

7 Claims. (Cl. 200—89)



1. A circuit breaker comprising a base formed of insulating material, terminal members arranged on the respective opposite ends of said base, a U-shaped frame formed of a material having a high electrical conductivity, means for securing the yoke of said U-shaped frame to said base intermediate said terminals with the legs of said U spaced longitudinally of said base, a pair of relatively movable contacts, means including a rotatable shaft for supporting one of said contacts for movement between open and closed circuit positions, means including one leg of said frame for rotatably supporting said shaft, conductor means connecting said one contact to said one leg of said frame and for connecting the other of said contacts to said one terminal, operating means for said shaft supported on said frame between said legs, current responsive means disposed between said frame and a terminal at the opposite end of said base for actuating said operating means, and conductor means connecting said current responsive means to said other terminal and to the other leg of said frame whereby said frame is electrically connected in the circuit through the breaker.

2,169,086

PIPE STILL

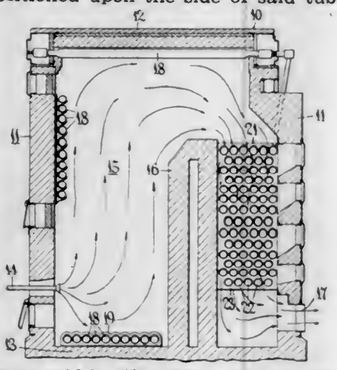
Gustavus Auer, Snyder, N. Y.

Application August 7, 1937, Serial No. 157,956

4 Claims. (Cl. 196—110)

1. In distillation apparatus for use in treating hydrocarbon oils, a heat transfer apparatus comprising a relatively stationary tube sheet, a heating zone upon one side of said sheet, a plurality of tubes in said heating zone and sup-

ported by said tube sheet and movable with respect thereto, reduced ends attached to said tubes and positioned upon the side of said tube sheet



away from said heating zone, and a return bend removably attached to a plurality of the reduced ends and producing fluid communication between a plurality of tubes.

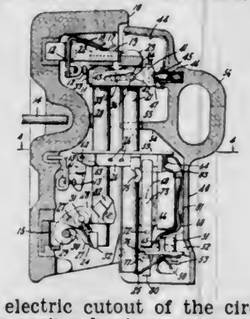
2,169,087

ELECTRIC CUT-OUT

Ralph S. Bennett, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application November 16, 1937, Serial No. 174,792

13 Claims. (Cl. 200—126)



7. In an electric cutout of the circuit reclosing type, a casing having an open front and spaced terminal contacts mounted therein, a fuse assembly supported in the casing and including a plurality of fuse holders arranged for successive connection of fuse links in the respective fuse holders in a circuit including said contacts, said holders being arranged in substantially parallel extending side by side relationship with their axes substantially in a plane parallel with the side walls of said casing, a door mounted for closing said open front of the casing, and a barrier plate disposed in surrounding relation to said holders and extending transversely of the axes of the holders into cooperative relation with portions of said housing and door to substantially isolate from each other the spaces around said contacts.

2,169,088

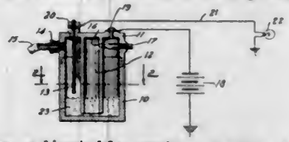
AUTOMATIC AUTOMOBILE SIGNAL LIGHT SWITCH

Leonard F. Carter, Colorado Springs, Colo.

Application December 17, 1937, Serial No. 180,379

3 Claims. (Cl. 200—81)

1. A vacuum-operated, compensating switch for automobiles comprising: a vacuum chamber; means for connecting said chamber to a source of vacuum; a diaphragm closing one wall of said chamber; a closed equalizing chamber sealed against the opposite side of said diaphragm; a controllable passage communicating between said



chambers; adjustable spring means for urging said diaphragm outwardly from said vacuum chamber; a contact member in said vacuum chamber; and a second contact carried by said diaphragm positioned to engage the first contact as the diaphragm is drawn inward by the vacuum in said vacuum chamber.

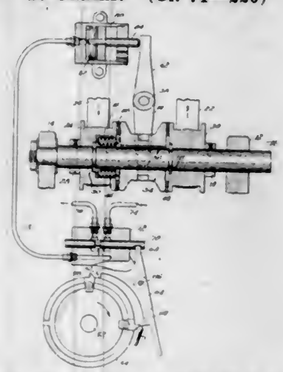
2,169,089

CLUTCH MECHANISM

William S. Davenport, Rochester, N. Y., assignor to Davenport Machine Tool Co., Inc., Rochester, N. Y., a corporation of New York

Application May 5, 1937, Serial No. 140,886

10 Claims. (Cl. 74—220)



1. Clutch mechanism of the type including a shaft, two driven elements rotatable on said shaft, and a clutch member on said shaft, characterized by resilient means arranged about said shaft and normally tending to hold said member in operative engagement with one of said elements, and fluid pressure means for shifting said member out of operative engagement with said one of said elements and into operative engagement with the other of said elements.

2,169,090

SINTERED HARD METAL ALLOY

Walther Dawihl, Berlin-Kohlhasenbruck, and Karl Schröter, Berlin, Germany, assignors to General Electric Company, a corporation of New York

No Drawing. Application March 28, 1939, Serial No. 264,588. In Germany August 27, 1938

1 Claim. (Cl. 75—136)

A sintered hard metal alloy for tools and working implements, consisting of a mixture of tungsten carbide, from 5 to 20% titanium carbide, from 6 to 12% of an auxiliary metal of lower melting point such as iron, nickel, cobalt, from 0.5 to 2% vanadium carbide, and from 0.5 to 2% molybdenum carbide.

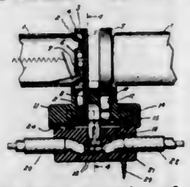
2,169,091

LAMP SOCKET

Frank C. De Reamer, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application May 22, 1937, Serial No. 144,204

1 Claim. (Cl. 173—328)



In combination, a pair of line conductors, spaced holders for a lamp having a terminal at each end, each of said holders including a terminal engageable with the lamp terminal and a plug type receptacle comprising a body carrying a terminal engageable with a contact connected to one of the line conductors whereby the lamp is connected across the line conductors, a base of rubber molded around said contact and said conductors and the connection therebetween, said base being adapted to be secured to a surface and having a face adapted to lie flat on said surface with the contact on the opposite face and engageable by said receptacle, and means for clamping the receptacle to the base, the body of the receptacle overlapping the base and providing a water-tight seal between it and the base.

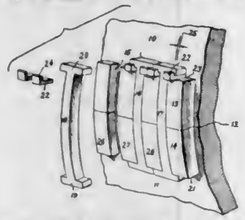
2,169,092

TURBINE-CASING JOINT

John H. Doran, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application September 11, 1937, Serial No. 163,506

2 Claims. (Cl. 285—129)



1. An elastic fluid turbine casing having lower and upper casing halves with flanges and forming a joint, a plurality of open grooves in the flanges extending transversely to the joint, clamps for shrinking the flanges together, said clamps having main portions disposed in the grooves and transverse portions engaging the end surfaces of the flanges, and means to facilitate dismantling of the clamps comprising keys disposed between the transverse portions and the adjacent end surfaces of one of the flanges.

2,169,093

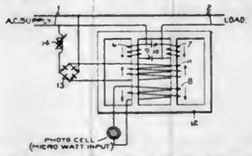
ELECTRICAL CONTROL SYSTEM

Martin A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 2, 1937, Serial No. 118,914

9 Claims. (Cl. 171—242)

1. In combination, a core of magnetic material, a reactance winding on said core, means for energizing said winding with half wave rectified current, a control winding on said core, means for supplying said control winding with unidirectional current, a compensating winding on said core, means for supplying said compensating winding with a substantially constant value of



unidirectional current, the magnetomotive forces of said reactance and control windings being in the same direction with respect to each other and opposite in direction with respect to the magnetomotive force of said compensating winding.

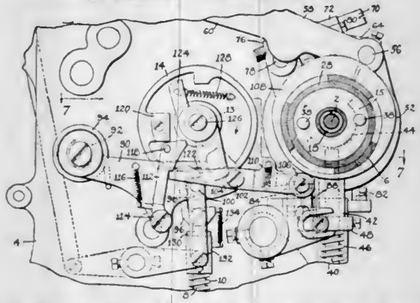
2,169,094

DRIVING AND STOPPING MECHANISM

Joseph Fossa, Salem, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Original application May 11, 1935, Serial No. 21,011. Divided and this application July 20, 1937, Serial No. 154,603

11 Claims. (Cl. 192—148)



1. A driving and stopping mechanism having, in combination, a shaft, a driving member therefor, a clutch to connect and disconnect the driving member and shaft, a movable clutch control member, connections between the control member and clutch for causing the clutch to connect and disconnect the driving member and shaft, a single revolution stop cam in addition to said connections between the control member and the clutch driven by the shaft and engaged by the clutch control member, said cam acting at the completion of its rotation to actuate the clutch control member to cause the clutch to disconnect the driving member and shaft normally inoperative mechanism driven by the driving member for actuating the clutch controlling member to cause the clutch to connect the driving member and shaft, and treadle operated connections for rendering said mechanism operative.

2,169,095

COMBINED DISPLAY STAND AND FILING RACK

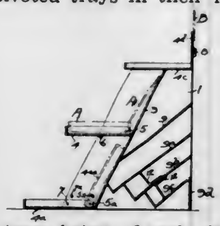
Harry Goldman, Detroit, Mich.

Application November 30, 1937, Serial No. 177,355

2 Claims. (Cl. 211—134)

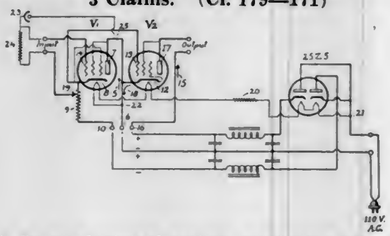
1. A display stand comprising two vertical walls spaced from one another, an abruptly inclined transverse partition having its opposite ends secured to and between said walls intermediately of the depth of the latter, a fixed top tray sup-

ported upon said walls and extending over said transverse partition, other trays pivoted about horizontal axes between said walls, each pivoted tray being adapted to be turned upwardly to rest against the partition or to be turned to a horizontal position, stops carried by the walls to support the pivoted trays in their horizontal posi-



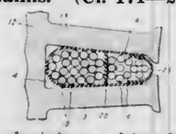
tions, said trays being of such size and being so positioned that when horizontal they extend forwardly beyond the front margins of said walls and when upturned they lie entirely rearwardly of said front margins, the partition being adapted to support the upturned covers of boxes resting upon the pivoted trays when the latter are horizontal.

2,169,096
ELECTRICAL AMPLIFIER SYSTEM
Otto William Greenberg, Ocean City, N. J.
Application January 2, 1935, Serial No. 90
3 Claims. (Cl. 179—171)



2. In an electrical system employing tubes having an anode, cathode and control grid, a first tube and a second tube, a direct connection between the cathode of the first tube and the grid of the second tube whereby in relation to each other the same potential is maintained on these two elements and direct connections between the anode of the first tube, the cathode of the second tube and the positive terminal of a plate supply unit whereby in relation to each other the same potential is maintained on the said anode, said cathode and said terminal.

2,169,097
DYNAMO-ELECTRIC MACHINE
Ralph W. Hall and Henry A. Smith, Fort Wayne, Ind., assignors to General Electric Company, a corporation of New York
Application September 1, 1938, Serial No. 227,952
8 Claims. (Cl. 171—252)

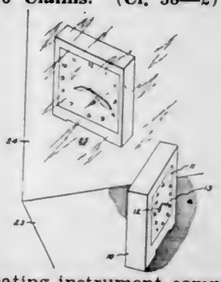


1. A dynamo-electric machine having a member comprising a magnetic core and windings of an electrical conductor about said core, said conductor being insulated with a composition comprising a superpolyamide.

2,169,098
METHOD FOR SOFT SOLDERING ALLOYS CONTAINING ALUMINUM
Goodwin H. Howe, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application June 19, 1937, Serial No. 149,203
3 Claims. (Cl. 113—112)

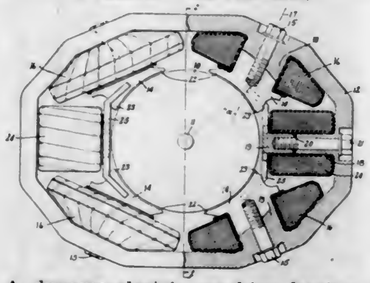
1. The method for soldering an alloy containing iron, nickel and aluminum as the basic ingredients which comprises applying hydrochloric acid to the surface to be soldered to thereby remove the aluminum from said surface, thereafter applying a flux to said surface and finally applying a soft solder to said surface.

2,169,099
MIRROR CLOCK
Willis I. Ketterson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 7, 1938, Serial No. 217,899
6 Claims. (Cl. 58—2)



1. An indicating instrument comprising a casing having front and rear scale graduations arranged opposite each other, movable pointer means cooperating with the two scales, common means within said casing for simultaneously moving the indicating means with respect to their scales in the same direction, and mirror means to the rear of said casing for reflecting an image of the rear scale and pointer, said rear scale having its graduations arranged so that when reversed by mirror reflection its image has the same scale arrangement as the front scale.

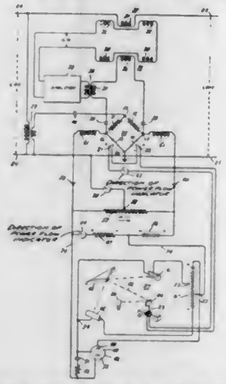
2,169,100
DYNAMO-ELECTRIC MACHINE
Carl W. Lange, Erie, Pa., assignor to General Electric Company, a corporation of New York
Application December 21, 1938, Serial No. 247,073
6 Claims. (Cl. 171—252)



1. A dynamo-electric machine having a rotatable member and a stationary member, said stationary member having a greater transverse

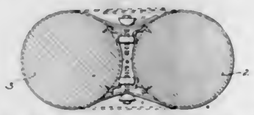
width on one axis than on another transverse axis, main pole pieces for said stationary member having their axes angularly displaced from normal to said rotatable member, said main pole pieces being arranged about said stationary member to provide an interpolar space between adjacent main pole pieces along the greater transverse width of said stationary member, and pole faces on each of said main pole pieces of greater arcuate length from the axis of said pole pieces towards the smaller width axis than towards the greater width axis of said stationary member.

2,169,101
THERMOCOUPLE WATTMETER
Cramer W. La Pierre, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 29, 1938, Serial No. 205,120
6 Claims. (Cl. 171—95)



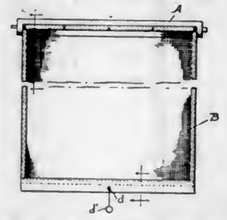
5. Apparatus responsive to the product of two currents comprising a bridge including four arms connected together to form a square, terminals at two opposite points of said square to serve as connections for one of said currents, a second pair of terminals at the two remaining opposite points of the square to serve as connections for the other of said currents, two adjacent arms of said bridge comprising thermal-current-responsive devices, means for supplying auxiliary current to one of said thermal-current-responsive devices, means differentially responsive to the two thermal-current-responsive devices for controlling the auxiliary current and maintaining a predetermined relationship between the temperatures of the two thermal-current-responsive devices.

2,169,102
POLE-SNUBBING DEVICE
Clarence J. Lemont, South Milwaukee, Wis., assignor to Line Material Company, South Milwaukee, Wis., a corporation of Delaware
Application July 15, 1937, Serial No. 153,770
5 Claims. (Cl. 20—99)



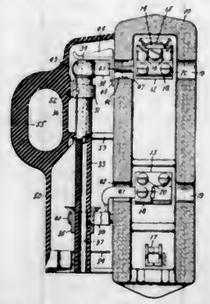
1. In a pole snubbing and clamping device, a saddle comprising a pair of opposed arcuately-curved plates, each having relatively spaced portions folded inwardly toward the other of said plates, and a pair of relatively spaced spacing blocks disposed between said plates and between the folded portions of each plate, said blocks each being secured to corresponding folded portions of both plates.

2,169,103
LAMINATED MESH ROLLER SHADE
Francis Edgar Lesley, Cincinnati, Ohio
Application August 7, 1937, Serial No. 157,839½
1 Claim. (Cl. 156—10)



A window shade structure for use on rollers comprising a fabric body formed of a plurality of superimposed open mesh fabrics, separator strips positioned along the marginal edges of the superimposed fabrics to retain the same in spaced relation for the admission of light, a binding enclosing the marginal edges of said superimposed fabrics and said separator strips, fastening means securing the binding to said fabric body and permanently positioning said separator strips, the binding element along the lower fabric body being spaced at its lower edge from the lower edge of the fabric body to provide a pocket for an insert, said open mesh fabrics being normally positioned by said binding with the strands forming the mesh of each lamination offset with relation to the strands of the adjacent lamination, whereby the mesh area of the fabric body is relatively reduced to form a retarding medium for the interception of particles conveyed by passing air currents.

2,169,104
PROTECTIVE AND MAINTENANCE EQUIPMENT FOR ELECTRIC CIRCUIT INTERRUPTING DEVICES
George Fred Lincks, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application January 13, 1939, Serial No. 250,786
8 Claims. (Cl. 200—113)



1. The combination with an electric circuit interrupting device including an insulating support having spaced stationary line terminals mounted thereon and means for supporting an electric switching element removably in position

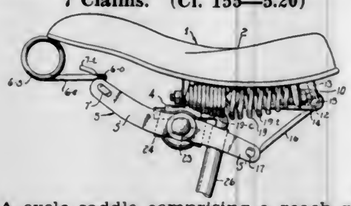
to bridge said terminals, of an electric protective device including an expulsion tube having spaced electrodes providing an arcing gap in the tube, means in addition to said first mentioned supporting means for supporting said protective device on said insulating support and maintaining the protective device in operative position irrespective of whether or not a switching element is supported in a position bridging said terminals, and means cooperative with said protective device to provide an impulse discharge path between said contacts by way of said electrodes and expulsion tube.

2,169,105

BICYCLE SADDLE

Andrew J. Linder and Harold E. Kalter, Elyria, Ohio, assignors to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio

Application April 22, 1938, Serial No. 203,562
7 Claims. (Cl. 155—5.20)



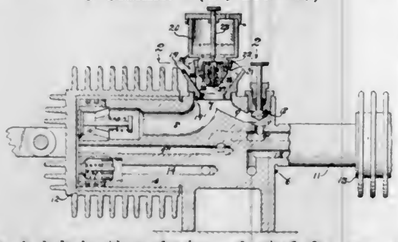
1. A cycle saddle comprising a reach member adapted to be clamped to a saddle post, a hinge connecting the rear portion of the saddle and the rear portion of the reach member, the hinge comprising a part pivotally connected to the saddle and a part pivotally connected to the reach member and a hinge pin connecting both parts, the hinge parts being angularly disposed whereby movement of the saddle towards the reach member will cause the angle between such parts to be decreased and effect movement of the hinge pin generally horizontally, a pair of helical type compression and tension springs each rigidly secured at either end thereof to the saddle, rigid link means connecting the hinge pin and each of the springs, the link means being connected to each of the springs at an intermediate portion thereof to place a part of each spring under compression and the other part under tension whereby movement of the hinge pin will be resiliently resisted by a combined tension and compressive force.

2,169,106

LUBRICATING DEVICE

Pietro Maniscalco, Toledo, Ohio

Original application April 10, 1937, Serial No. 136,114. Divided and this application August 20, 1937, Serial No. 160,100
3 Claims. (Cl. 184—76)



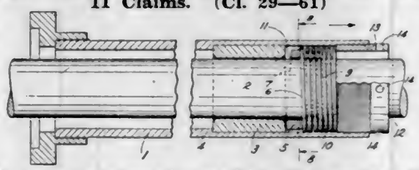
3. A lubricating device adapted for use on a fluid compressor which has a fluid inlet channel, said device consisting of a funnel-like fluid inlet member including a lower contracted discharge portion removably mountable in said channel, also including a flared upper inlet mouth having an integral collar therein spaced from its inner surface, a lubricant cup including a lower neck threaded in said collar, to have the fluid enter around the neck within the mouth, automatic valve means detachably mounted in said neck including a contracted lower end with a valve seat also a stem having a tapering lower valve element thereon adapted to close said seat and to be readily drawn open by the fluid entering around it into said intake mouth, a spring on the stem and means for adjusting its tension to regulate the closing pressure of the valve, the tapering element being adapted to spread the lubricant thru the fluid as the latter descends thru the mouth, and a valve in the cup including a head operable manually above the cup, for regulating the quantity of lubricant to pass therefrom to the automatic valve means.

2,169,107

STOCK GRIPPING MEANS

Stoddard B. Martin, Lakewood, Ohio

Application November 18, 1937, Serial No. 175,281
11 Claims. (Cl. 29—61)



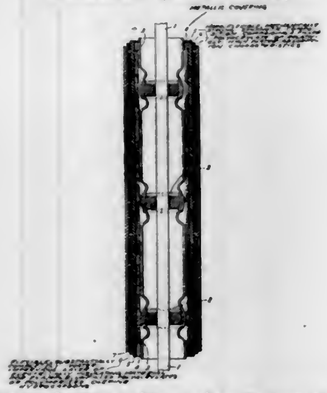
4. In an automatic machine the combination with a pusher tube of a stock feeding pusher unit removably secured to an end of said tube, and comprising a tube, a bushing, a stock gripping ring, a spring for tilting said ring toward said bushing to grip bar stock passing through said ring and a member threaded into an end of the tube to engage said spring and whereby said bushing, ring, and spring may readily be removed axially of the tube.

2,169,108

ELECTRIC CABLE

Gustav Meybauer, Berlin-Friedrichshagen, Germany, assignor to General Electric Company, a corporation of New York

Application October 5, 1937, Serial No. 167,454
In Germany October 24, 1936
5 Claims. (Cl. 174—123)



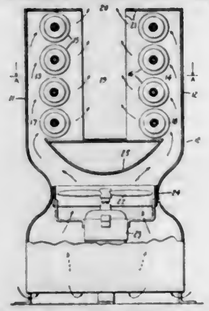
1. In an electric cable, a sheath formed of layers of hard, flexible, mechanically strong synthetic composition comprising a filled polyacrylate possessing relatively high water-absorption characteristics, said layers having interposed therebetween and in contact therewith a flexible, substantially completely water-impervious layer of electrically insulating material.

2,169,109

AIR COOLING MEANS FOR DRY RECTIFIERS

Gustav W. Müller, Berlin-Charlottenburg, Germany, assignor to General Electric Company, a corporation of New York

Application July 8, 1936, Serial No. 89,627
In Germany August 2, 1935
6 Claims. (Cl. 175—366)



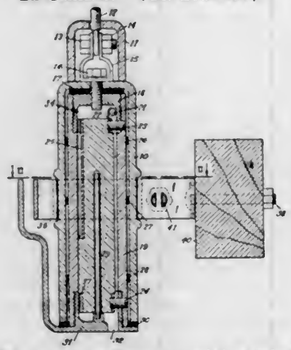
1. A rectifier apparatus including a casing, a blower mounted in said casing, two banks of rectifier stacks of the dry disk type mounted opposite each other in said casing and spaced respectively a substantial distance from opposite walls of said casing to form air passages between said banks and said walls, said banks being spaced apart to form an air passage therebetween, a blower mounted in said casing, and a deflector mounted in said casing between said banks and said blower to cause a blast of cooling air induced by said blower to flow across one of said banks and through the passages corresponding to said bank and to cause a second blast of cooling air induced by said blower to flow across the other of said banks and through the passages corresponding to said other bank.

2,169,110

REPULSION LIGHTNING ARRESTER

Ralph R. Pittman, Pine Bluff, Ark.

Application January 10, 1938, Serial No. 184,269
11 Claims. (Cl. 175—30)



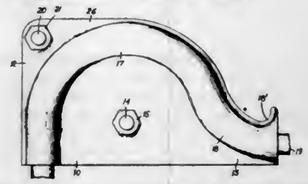
1. A lightning arrester comprising a hollow tube of insulating material, normally insulated conducting electrodes associated with said tube, said electrodes being so related as to cause an arc responsive to spark over which extends between said electrodes and longitudinally along the internal surface of said hollow tube, one of said electrodes having an externally positioned juxtaposed portion in series circuit relation with the arc and so positioned with respect thereto as to drive the arc away from the initial path, said portion extending longitudinally along one side only of said initial path.

2,169,111

SERVICE ENTRANCE CABLE CLAMP

Edward H. Rugg, Bridgeport, Conn., asignor to General Electric Company, a corporation of New York

Application June 23, 1938, Serial No. 215,418
3 Claims. (Cl. 24—125)



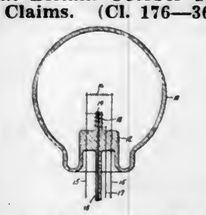
2. A cable clamp comprising complementary clamping plates and a bolt positioned substantially centrally of the area of said plates for clamping said plates together, each of said plates having a groove formed therein, portions of said grooves extending in a curved path around said bolt as a center, the area of each of said plates between said groove and said bolt being bowed outwardly away from each other to form a portion which is flexed upon tightening of said bolt.

2,169,112

HERMETICALLY SEALED VESSEL

William J. Scott and William T. Cowhig, Rugby, England, assignors to General Electric Company, a corporation of New York

Application March 22, 1939, Serial No. 263,358
In Great Britain October 15, 1938
9 Claims. (Cl. 176—36)



1. The method of preparing and sealing a vessel which comprises forming within the vessel an inwardly extending member having an opening therein, utilizing said opening to adjust the gaseous content of the vessel to a desired value, and thereafter applying heat to said member sufficient to fuse a portion of said member at a point within said vessel and thereby to seal said opening.

2,169,113

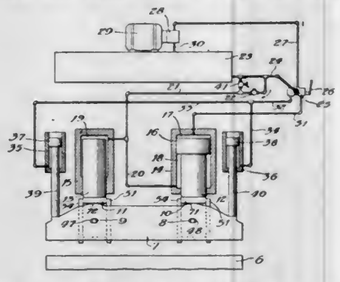
HYDRAULIC BENDING PRESS

Joseph R. Sheppard, Haddonfield, N. J., assignor to Charles F. Elmes Engineering Works, Chicago, Ill., a corporation of Illinois

Application April 29, 1938, Serial No. 205,137
8 Claims. (Cl. 153—29)

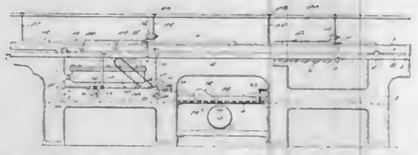
1. In a hydraulic press of the character de-

scribed, comprising a stationary platen, a moving platen, guide means for said moving platen, spaced rams operable to apply pressure to the moving platen and force it toward the stationary platen, cylinders for said rams and means for causing the rams to be advanced the same distance at the same speed under all conditions,



said last named means comprising a piston on one of the rams having an area equal to the sum of the areas of said rams, the cylinder for said last named ram having a space beneath the piston equal in cross section to the area of the other ram, said space beneath the piston being connected with the hydraulic liquid space in the cylinder for the other ram.

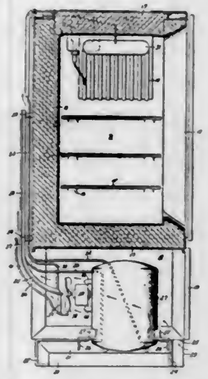
2,169,114
BOOK GLUING MACHINE
Henry Sieb, Hammond, Ind.
Application August 31, 1938, Serial No. 227,695
17 Claims. (Cl. 91—13)



1. A machine for applying glue to the back edges of books, comprising a support on which the books may stand upright on their back edges, means to move the books across said support, means to apply glue to the under edges of the books when the books reach a predetermined position on said support, means to jar the books and cause the leaves thereof to settle themselves properly, and guide means for the books holding them loosely while being jarred and compressing them somewhat adjacent to their rear edges while the glue is being applied.

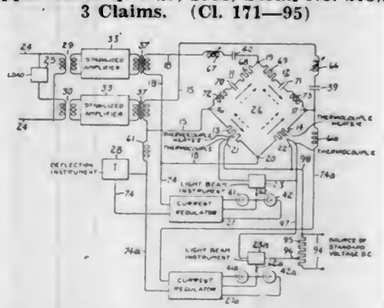
2,169,115
REFRIGERATOR
Christian Steenstrup, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application February 25, 1938, Serial No. 192,603
5 Claims. (Cl. 62—116)

1. A refrigerator having a food storage compartment and an apparatus compartment, means including a cooling unit associated with said food storage compartment to cool the same, means including a refrigerant circulatory unit and a condenser for supplying a refrigerant to said cooling unit, said condenser being positioned in proximity to a wall of said refrigerator and having an upwardly extending portion in spaced relation with said wall forming a flue-like opening therewith and a lower portion deflected from the plane of said upwardly extending portion and extending into said apparatus compartment, and



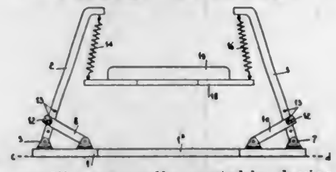
means including said lower deflected portion of said condenser for direct cooling air currents over the surface of said condenser with a portion of the air passing through said flue-like opening.

2,169,116
PRODUCT METER
Harris A. Thompson, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application April 29, 1938, Serial No. 205,121
3 Claims. (Cl. 171—95)



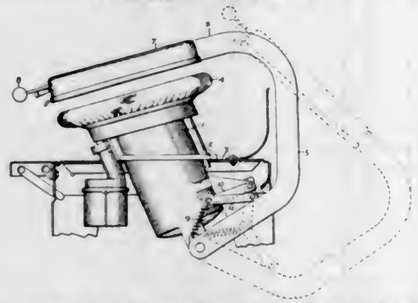
2. Apparatus responsive to the product of two currents comprising a bridge including four arms connected together to form a square, terminals at two opposite points of said square to serve as connections for one of said currents, and a second pair of terminals at the two remaining opposite points of the square to serve as connections for the other of said currents, two adjacent arms of said bridge comprising thermal current responsive devices, means for supplying auxiliary current to one of said thermal current responsive devices, means responsive to the relative current effects in the two thermal current responsive devices for controlling the auxiliary current and maintaining a predetermined relationship between the temperatures of the two thermal current responsive devices, means for supplying a second auxiliary current to both of said thermal current responsive devices and means responsive to fluctuations in temperatures in one of said thermal current responsive devices for controlling the second auxiliary current to maintain said thermal current responsive device at a predetermined temperature.

2,169,117
SELF-LEVELING HEAD SUPPORT
Gerhard P. Utermöhlen, Amsterdam, Netherlands, assignor to Nederlandsche Maatschappij "Sogedio" N. V., The Hague, Netherlands, a Dutch company
Application October 28, 1937, Serial No. 171,496
In the Netherlands October 30, 1936
7 Claims. (Cl. 114—191)



1. A readily manually portable device for use by a person in a prone position to support such person's head only, said device characterized by spaced standards forming a frame, a support for a pillow to receive the person's head, said support being positionable between the standards and being suspended from said standards, and at least two elongated elastic members such as helecoidal springs for so suspending the support, the longitudinal axes of said elastic members being disposed to converge upwardly towards each other at an acute angle, so that notwithstanding movements of the frame said support, when loaded with a person's head, always substantially maintains the same plane in space.

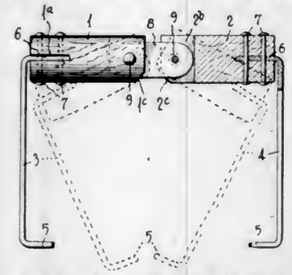
2,169,118
COATING FOR HEATED SURFACES
George W. Wardwell, Jr., Nichols, Conn., assignor to General Electric Company, a corporation of New York
Application November 25, 1936, Serial No. 112,739
3 Claims. (Cl. 38—66)



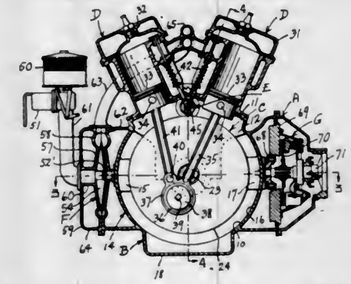
1. In an ironer, a shoe comprising a heated metallic body having a work engaging face and having a metal cover enclosing the opposite face, and a suede-like coating on the outside of said cover comprising flock held thereon by a cement, said coating being relatively thin so as not to be substantially heat insulating and having a large number of fibers projecting from said cement so as to minimize burning or discomfort upon accidental contact therewith.

2,169,119
BATTERY LIFTER
Leo J. Blum, Macon, Ga.
Application April 20, 1938, Serial No. 203,147
1 Claim. (Cl. 16—124)

A battery lifter including a handle portion comprising a pair of relatively thick sections disposed end to end, and together constituting a grip member, a relatively short link member extending longitudinally of and between said sections and to which the adjacent ends of said sections are pivotally connected, said link member being enclosed within the ends of said sections and serving to maintain them in closely spaced relation, the said adjacent ends being, however, spaced sufficiently to allow the outer ends of said sections to swing downwardly into a position at an angle with respect to each other, and a hook member projecting from and rigidly secured to the other end of each section and extending substantially at right angles thereto.



2,169,120
INTERNAL COMBUSTION MOTOR
Robert Stribling Busby, West Palm Beach, Fla.
Application May 2, 1938, Serial No. 205,598
4 Claims. (Cl. 123—197)

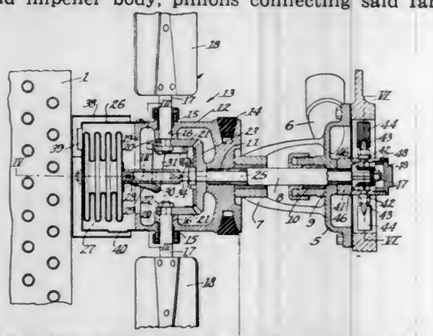


1. In an internal combustion engine, a flywheel shaft, a pair of flywheels each fixed at an opposite end of the flywheel shaft, said flywheels being provided on their outer faces each with a crank pin, a pair of spaced apart cylinder assemblies having pistons each operatively connected to one of said crank pins, gearing on the inner face of one of the flywheels, a drive shaft having an end portion disposed between said flywheels, and gearing on the end portion of the drive shaft meshing with the flywheel gearing.

2,169,121
MOTOR COOLING SYSTEM
Dorhl H. Coy, Jackson, Ohio
Application October 4, 1937, Serial No. 167,179
6 Claims. (Cl. 123—174)

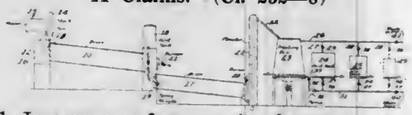
4. A combined air circulating fan and water impeller for engine cooling systems comprising a rotatably mounted tubular shaft, a fan hub secured to one end of said shaft, an impeller body secured to the opposite end of said shaft, a plurality of fan blades pivotally mounted in connection with said hub, a thermostat supported by said hub, a second shaft extending through said

tubular shaft, gear means carried at opposite ends of said second shaft, means for rotating said second shaft in response to movement on the part of said thermostat, vanes pivotally mounted on said impeller body, pinions connecting said fan



blades and said vanes with the corresponding gears on said second shaft, and means for conducting air from the lower portion of the radiator for said engine to the vicinity of said thermostat.

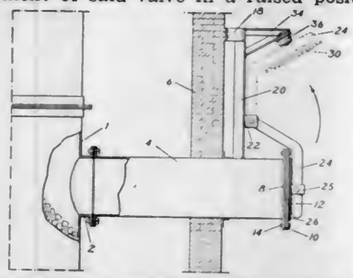
2,169,122
METHOD FOR TREATING SANDS AND OTHER GRANULAR MATERIALS
Joshua A. Crew, Zanesville, Ohio, assignor to The Ayers Mineral Company, Zanesville, Ohio, a corporation of Ohio
Application February 5, 1935, Serial No. 5,091
Renewed December 17, 1937
11 Claims. (Cl. 252—8)



1. In a process for removing ferrous impurities from sand, the steps which comprise: establishing a bed of heated acidulated sand, forcing a relative strong acid solution upwardly through said bed of sand, displacing the strong acid solution from said sand by passing a weaker acid solution therethrough, returning the displaced strong acid solution to its source of supply, displacing the weaker acid solution from said sand by passing water therethrough, and returning the displaced weaker acid solution to its source of supply.

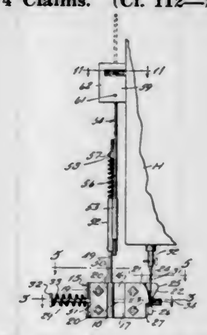
2,169,123
EXPLOSION RELIEF MEANS
Albert Leet Galusha, Caldwell, N. J.
Application October 27, 1936, Serial No. 107,898
5 Claims. (Cl. 220—89)

1. In an explosion relief means for gas producers, a vent opening from the producer arranged to discharge in a horizontal direction, a disk rupturable under pressure of a gas explosion in the producer, means securing said disk in position to seal the vent opening against gas leakage from the producer, a valve arranged to shield said disk, an arm supporting said valve, said arm being pivotally supported above the level of said vent opening for movement in a vertical plane and supporting said valve so said valve is operable by fluid pressure upon the rupturing of said disk by the pressure of an explosion in the producer to a position out of line with said vent to leave said vent unobstructed for the passage of solid fuel ejected by the explosion and means for stopping the opening movement of said valve in a raised position of



said valve from which position said valve returns by gravity to close said vent opening.

2,169,124
NEEDLE THREADER
Asburl L. Holland, Washington, D. C.
Application March 23, 1938, Serial No. 197,715
4 Claims. (Cl. 112—225)

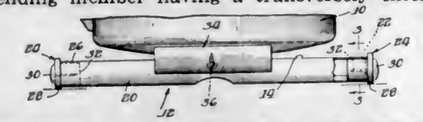


1. A needle threader comprising a frame, a socket carried by said frame engageable with the pointed end of a needle for positioning said needle relative to said frame, a slide carried by said frame, guide means for said slide, a spring pressed operator engageable with said slide, a relatively blunt eye engaging member carried by the forward end of said slide for engagement through the eye of a needle to thereby push a loop of thread through the eye of a needle, a rock lever carried by said frame, a cam carried by said slide, a cam engaging member carried by said lever whereby to swing said lever to an operative position upon movement of said slide in a projected position, a spring constantly urging said lever to an inoperative position, and a loop engaging hook carried by said lever and engageable against the forward end of said eye engaging member when said latter member is in projected position whereby to engage within a loop formed by said eye engaging member to hold said loop of thread against withdrawal through the needle eye.

2,169,125
SUPPORTING MEANS
Edward S. Preston, Hinsdale, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 10, 1938, Serial No. 189,716
11 Claims. (Cl. 65—53)

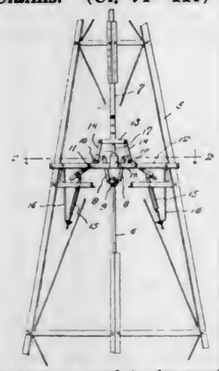
1. In an electrical appliance, a supporting base member, a horizontally extending aperture in the base member, a horizontally extending member

engaged in the aperture, said horizontally extending member having a transversely extend-



ing flange projecting from the surface thereof, said flange extending downwardly and providing a foot portion for the base member.

2,169,126
STROKE-INCREASING DEVICE
Peter Repka, Alice, Tex.
Application October 14, 1938, Serial No. 235,065
4 Claims. (Cl. 74—110)



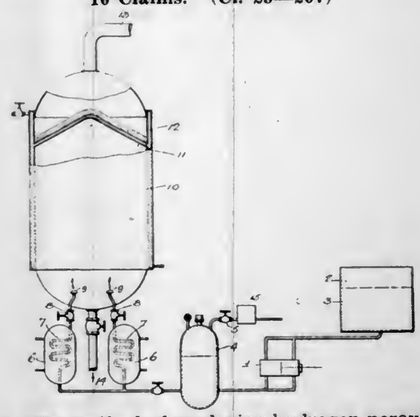
1. In combination, a rod to be reciprocated, a second power driven reciprocating rod alined with said first-named rod, means operatively connecting the adjacent ends of said rods whereby the first-named rod is given a stroke of greater length than the stroke of said second-named rod, said last-named means comprising a fixed support, levers arranged at opposite sides of said rods and pivoted intermediate their ends to said support normally in downwardly diverging relation, a cross bar secured on the lower end portion of the second-named rod, links pivoted to the ends of said cross bar at their upper ends and to the inner arms of said levers at their lower ends, and further links pivotally connecting the inner ends of said levers with the upper end of the first-named rod.

2,169,127
BAG HOOK
Mate Mike Rodin, San Pedro, Calif.
Application September 29, 1938, Serial No. 232,461
1 Claim. (Cl. 294—26)



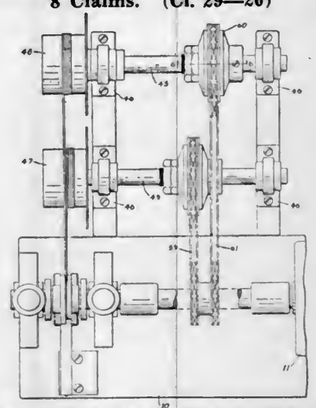
A tool of the class described having a handle, a plate integral with said handle and relatively wide with respect thereto, said plate having corrugations extending longitudinally thereof, alternate corrugations provided with tines at their distal portions, said tines formed by bending said portions in opposite directions and into contact to provide closed pointed terminals and spaces therebetween.

2,169,128
METHOD OF PRODUCING HYDROGEN PEROXIDE FROM SOLUTIONS
Heinrich Schmidt, Walddorf, Germany, assignor to The Pennsylvania Salt Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 2, 1938, Serial No. 211,463
In Germany April 2, 1935
10 Claims. (Cl. 23—207)



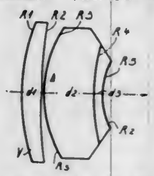
1. The method of producing hydrogen peroxide which comprises applying to an aqueous solution, containing an active oxygen compound capable of yielding hydrogen peroxide upon heating, pressure by means of a gas inert to said active oxygen compound, heating the solution while under pressure, suddenly releasing the pressure to vaporize the hydrogen peroxide, separating the vapors from the non-volatilized portion of the liquid, and subsequently recovering the vapors.

2,169,129
MANUFACTURE OF FORMED WIRE
Edson W. Sawyer, Edgewood, R. I., and Ralph F. Gibbs, Norton, Mass., assignors to Laminated Metals Corporation, a corporation of Rhode Island
Application January 20, 1938, Serial No. 185,988
8 Claims. (Cl. 29—20)



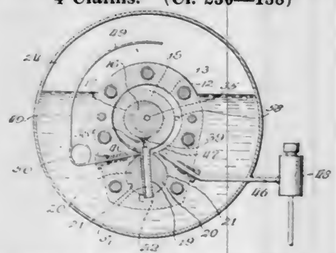
2. The method of splitting a wire longitudinally, comprising the steps of feeding the wire to rotary splitting cutters, and yieldingly drawing the split portions from said cutters while preventing lateral distortion of the split portions.

2,169,130
MAGNIFYING LENS ATTACHMENT FOR OBJECTIVES
Albrecht Wilhelm Tronnier, Gottingen, Stefan Roeschlein, Bad Kreuznach, and Edmund Lescher, Gottingen, Germany, assignors to Jos. Schneider & Co. Optische Werke, Bad Kreuznach, Germany, a firm of Germany
Application September 7, 1937, Serial No. 162,752
In Germany May 4, 1937
5 Claims. (Cl. 88—57)



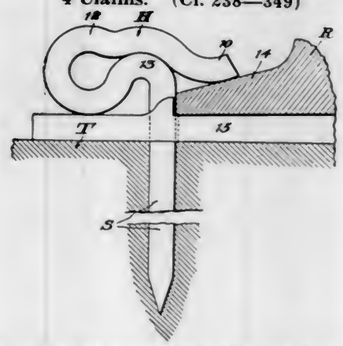
1. In a magnifying frontal attachment lens system adapted to be positioned in axial alignment with photographic and cinematographic camera objectives, for enlarging the image scale of the objective with substantially unchanged image distance and having a collective lens toward the object, a dispersive lens toward the image in axial alignment with the collective lens, and in which said lenses are meniscus-shaped and have convex surfaces toward the object, and which lenses, in their combination, are corrected spherically, chromatically, comatically and astigmatically; the frontal lens system having on its side directed toward the objective a strongly curved surface having a powerful dispersing action, and having on the side directed toward the object an air-spaced collecting front lens having an extremely large relative aperture, and said system having a collecting surface following and separated from the front lens by a small air gap, whose radius is more than 30% but less than 130% of the diameter of the collecting front lens and whose surface focal length is at least ⅓ and at most ⅘ of the focal length of the front lens, the radius of curvature of the strongly curved surface of the system directed toward the objective being more than 30% but less than 130% of the radial length of the collecting surface following the front lens and such that the emergent rays are parallel to their direction of entry, the overall length of the frontal system being less than 130% of the diameter of the front lens.

2,169,131
COMPRESSOR
Carl W. Albertson, Chicago, Ill.
Application December 19, 1936, Serial No. 116,758
4 Claims. (Cl. 230—138)



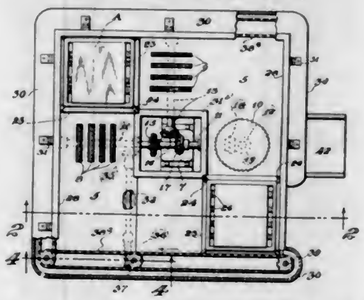
1. In combination, a gas compressor, a chamber enclosing said compressor, into which the compressor delivers, means for maintaining a supply of lubricant within the compressor, a valve in the outlet of said compressor, and open means establishing a high resistance liquid seal between said chamber and a low point of said compressor which is subjected regularly to compression.

2,169,132
SPIKE
Victor C. Armstrong, Short Hills, N. J., assignor to Poor & Company, New York, N. Y., a corporation of Delaware
Application March 5, 1938, Serial No. 194,200
4 Claims. (Cl. 238—349)



1. A rail spike comprising a shank and a head, the portion comprising the head extending from the top of the shank first outwardly and downwardly and then upwardly in the form of an open loop and then inwardly beyond the inner face of the shank in the form of a rail flange engaging and holding arm, said loop being disposed in a substantially vertical plane outwardly of the shank and serving to resiliently connect said arm with said shank, the bottom of said loop being disposed a distance below the rail flange contacting portion of said arm so as to be adapted to contact with the upper face of a tie or a tie plate when the arm is operatively engaged with a rail flange.

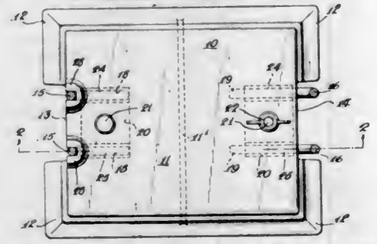
2,169,133
ICE CUBE MAKING MACHINE
James A. Barr, Dallas, Tex.
Application October 22, 1937, Serial No. 170,317
2 Claims. (Cl. 143—38)



1. A machine for cutting ice cubes from an ice block, comprising a framework having a construction which provides different angular paths of travel for the passage of an ice block therethrough, a series of vertically disposed saws in one of said angular paths, a second series of vertically disposed saws disposed in another of said angular paths and so positioned as to cut the ice block in a direction at right angles to the cut

produced by the first series of saws, and a saw arranged in another of said angular paths and on a horizontal plane to complete the cutting operation in producing ice cubes, said machine including a cage for carrying the block of ice; the said framework having rails and the rails comprising upper and lower channel members in connection with a U-shaped member, the upper and lower channel members having spaced apertures at the intersection of the angular paths, a spring associated with the said apertures, a centrally disposed guide means for maintaining the cage in a straight line of travel through the machine, said travel being in a closed rectangular path, the said cage having flange members spaced around the outside thereof, and the flange members adapted to ride on the upper side of the U-shaped member and on the centrally disposed guide means for guiding the cage through the machine, a single drive arrangement of shafts, gears and chains for driving said saws and for propelling said cage through the machine, the said cage including spaced upper and lower projecting hook elements on each corner thereof, and the hook elements adapted to be received and ejected from the spring controlled apertures in the upper and lower channel members when the cage reaches the intersection of each angular path with another of the angular paths so that the cage will be smoothly guided from each of the angular paths to another of said angular paths during its travel through the machine.

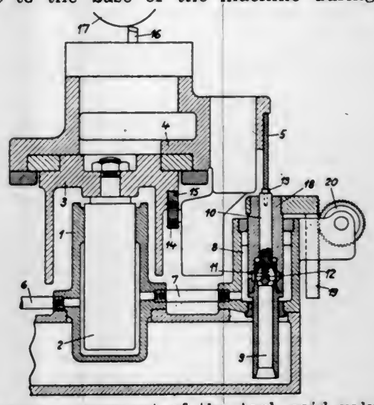
2,169,134
SUPPORT FOR STOCKING FORMS
David Montgomery Bauer, Norristown, Pa., assignor to Trisco Products, Inc., Philadelphia, Pa., a corporation of Pennsylvania
Application July 8, 1938, Serial No. 218,090
3 Claims. (Cl. 223—77)



1. A base having opposite lateral recesses to receive the wire sides of a stocking form and at the inner edge of one of the recesses bending upward and outward with a vertical slot to receive a vertical wire of the form, a wire stocking form terminating in ends bent toward each other and under the base and clamps engaging the bent portions of the ends of the form and holding them against the base, the slot walls engaging opposite sides of one of the wires of the form holding the form from movement angularly about the clamped ends of the form.

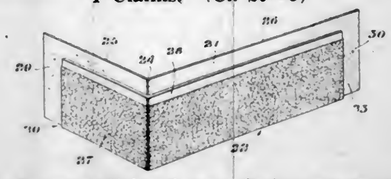
2,169,135
MACHINE TOOL WITH HYDRAULIC COPYING DEVICE
Heinrich Brandenberger, Zurich, Switzerland
Application July 2, 1938, Serial No. 217,251
In Switzerland October 25, 1937
12 Claims. (Cl. 82—14)

1. In a machine tool with a hydraulic copying device, in which the work is relatively stationarily located and in which the tool is longitudinally movable, means to control said tool for transverse movement during its longitudinal movement, said means including a cylinder and a piston, and a valve for controlling the hydraulic pressure oil to permit more or less passage of the oil, said valve being stationarily held with respect to the base of the machine during the



transverse movement of the tool, said valve, as viewed from the work, being located in the direction of the transverse movement of the tool as controlled by the pattern and being disposed, with the pattern, on the same side of the machine as said cylinder and piston.

2,169,136
ARTIFICIAL BRICK CORNER CONSTRUCTION
Robert R. Brenner, Milwaukee, Wis., assignor to Eve Brenner and Rae Kaiser, both of Milwaukee, Wis.
Application August 9, 1938, Serial No. 223,929
4 Claims. (Cl. 20—5)

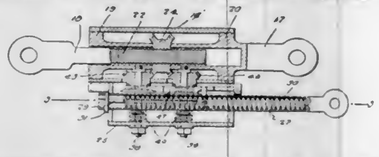


1. A new article of manufacture as a corner strip for simulating brick wall corner constructions comprising a metallic plane element formed into a dihedral angle, a surface element largely covering the outer surface of said metal element and leaving a free marginal area of the metal element exposed, said surface element having its major portion covered by a coarse grain material and the upper marginal edge thereof covered by a fine grain material, and means interposed between said elements and binding them together, said means partially covering the exposed marginal area of said metal element including the ends of the latter and in said marginal areas being covered by a fine grain material.

2,169,137
SLACK ADJUSTER
Will Henry Bryant, Little Rock, Ark., assignor of fifty per cent to Arthur W. Reed, Little Rock, Ark.
Application December 4, 1937, Serial No. 178,172
2 Claims. (Cl. 188—202)

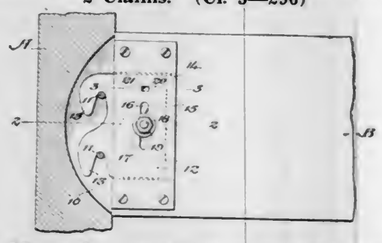
1. In a slack adjuster for a vehicular brake, the combination with a brake cylinder push rod, and a pair of brake levers, one of which levers is pivoted at one end thereof to the brake cylinder and the other of which levers is pivoted at one

end thereof to the push rod, a slack adjusted including a pair of telescoping rods one of which is pivoted at one end to one of said brake levers, and the other of which is provided at one end to the other of said brake levers, means connected with said telescoping rods for longitudinally adjusting said rods relative to one another, and a mechanism for operating said rod adjusting means including a rack bar, a spring de-



vice normally urging the rack bar in one direction, means operatively connecting said rack bar with the brake cylinder push rod, means for transmitting movement of the rack bar to said rod adjusting means, and a clutch device operatively connected with the rack bar and operating in response to the movement of the rack bar for controlling the transmission of drive from the rack bar to said rod adjusting means.

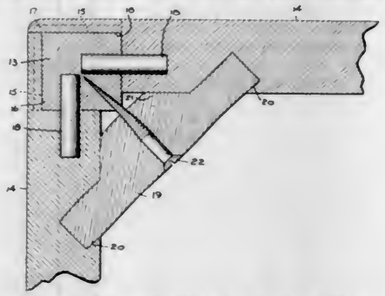
2,169,138
ADJUSTABLE BED RAIL CONNECTOR
Daniel W. Causey, Norfolk, Va.
Application July 28, 1938, Serial No. 221,819
2 Claims. (Cl. 5—296)



1. Means for connecting a bedstead side rail with a bedstead post comprising a plate fastened rigidly to the side rail and having a substantially vertical slot, a second plate at one side of said first mentioned plate and having a slot inclined with respect to the slot of said first mentioned plate, a finger on said second mentioned plate for engagement with a pin carried by the post to hold said second mentioned plate against movement downwardly and away from the post, means comprising a projection on one of said plates disposed in a horizontal slot in the other plate holding said second mentioned plate against vertical movement relative to said first mentioned plate, said second mentioned plate being horizontally movable relative to said first mentioned plate, and a bolt extending through the slots in said plate for adjustment to move the second mentioned plate horizontally relative to the first mentioned plate and for locking said plates together.

2,169,139
CHAIR CONSTRUCTION
Thomas Witherbee Foote, Cleveland, Ohio
Application November 2, 1937, Serial No. 172,334
1 Claim. (Cl. 155—196)

A rigid corner construction for a chair comprising a square leg post having its front and side portions recessed at the upper end, front and side skirting rails having notched ends resting upon the bottoms of said recessed portions for support and embracing the recessed end of the post to form a substantially continuous skirt, dowel pins projecting from the post into each skirting rail, a corner block disposed diagonally across the inside of the corner and dovetailed at



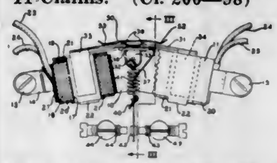
its ends in the front and side rails, said block having a tapered projection on its inner face to abut the inner faces of the front and side rails and a blunt midportion facing the inner corner of the post, and a screw projecting through the block and into the inner corner of the post to draw the parts together into a rigid unit.

2,169,140
FABRIC TAKE-UP DEVICE FOR FLAT KNITTING MACHINES
James L. Getaz, Maryville, Tenn., assignor to Interwoven Stocking Company, New Brunswick, N. J., a corporation of New Jersey
Application January 28, 1937, Serial No. 122,872
5 Claims. (Cl. 66—149)



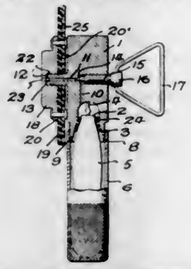
1. In a knitting machine, a rotatable drum, a welt hook bar and means operating said bar to rotate said drum to wind fabric thereon.

2,169,141
RELAY
Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 19, 1934, Serial No. 758,231
11 Claims. (Cl. 200—98)



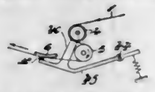
1. In a relay of the class described, a pair of coils, an armature associated therewith for operation thereby, a contact arm carried by said armature, a pair of spaced contacts engageable by said contact arm, said contact arm engaging one or the other of said contacts by the selective unbalancing of said coils and positioned intermediate said contacts by the balancing of said coils, and means for preventing travel of said contact arm beyond said intermediate position upon balancing of said coils but permitting free movement to said intermediate position, said means comprising a frictionally mounted movable abutment for said armature.

2,169,142
LIFESAVING DEVICE
John N. Stebbing, Jr., Washington, D. C.
Application August 23, 1938, Serial No. 226,312
2 Claims. (Cl. 221—73.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. An inflating device comprising a body having a substantially flat side to adapt it for attachment to the flat wall of an inflatable element and a recess in said body, a puncturing pin rigidly secured in said recess, a fluid passage adjacent said pin and leading outside of said body, a threaded extension on the flat side of said body and having a passage therethrough forming a continuation of the body passage, a securing nut for said extension arranged to clamp a portion of the wall of an inflatable article between said nut and said body for the purpose set forth, a cartridge container rotatably secured to the body and operating to advance a cartridge therein toward the puncturing pin to puncture said cartridge, and a manually operable needle valve in said body for controlling the passage of the fluid through said body.

2,169,143
RECORDING AND REPRODUCING APPARATUS
Jan Jesayas Hardenberg, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application January 12, 1937, Serial No. 120,317
In Germany January 15, 1936
1 Claim. (Cl. 242—55)



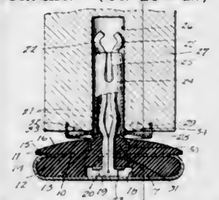
A film-driving apparatus comprising a supply reel for the film, a take-up reel for the film, means for driving said take-up reel including a friction coupling, a roller for driving said film at a constant speed and having a smooth surface engaging the film, means to continuously drive said roller, a thrust roller for pressing said film against said driving roller, means for stopping and releasing said film comprising a braking member adapted to engage the film at a point between said first roller and take-up reel, and means connecting said member and thrust roller to disengage said thrust roller from said driving roller when said member engages the film.

2,169,144
COMBINED CAGE AND FEEDER STRUCTURE FOR POULTRY
Luty Hawkins, Mount Vernon, Ill.
Application January 28, 1938, Serial No. 187,540
16 Claims. (Cl. 119—17)



1. A combined cage and feeder structure for poultry including a wall having a grille forming a part thereof, and an open top feed holder arranged at the front of the grille, said grille including spaced shiftable grille members normally coacting to form therebetween openings for the passage of the heads of small fowls to the feed in the holder, said wall including means connected to and through which said members extend for shifting the members in unison on their vertical axes to graduate the size of said openings for the passage of the heads of large fowls to the feed, and said wall including means coacting with the said other means for releasably holding said grille members from movement in adjusted and normal positions.

2,169,145
CUSHION SLIDE FOR FURNITURE
Walter F. Herold, Bridgeport, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application August 26, 1938, Serial No. 226,847
2 Claims. (Cl. 16—42)

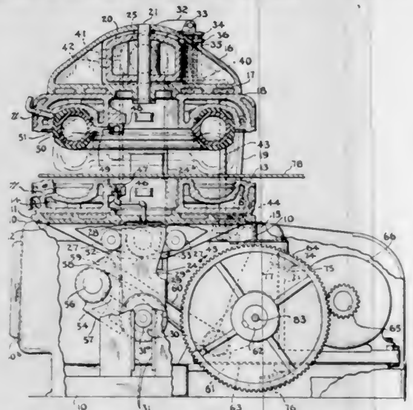


1. A cushion slide for furniture, comprising a cushion body of rubber or the like having a central vertically disposed passage, a non-resilient sliding shoe engaged over the lower portion of said cushion body, attaching means for securing said slide to the furniture, contactingly engaged in said central passage of said cushion body and projecting upwardly therefrom and adapted to have tilting movement relatively to said shoe, and a bearing member disposed at the upper side of said cushion body having a central aperture contactingly engaged by said attaching means and a peripheral wall portion laterally enclosing and confining an upper section of said cushion body in laterally surrounding relation to the upper portion of said central passage contactingly engaged by said attaching means.

2,169,146
VULCANIZING MOLD AND OTHER PRESSES
Cato Iverson, Akron, Ohio, assignor to National Rubber Machinery Company, Akron, Ohio, a corporation of Ohio
Application April 20, 1937, Serial No. 137,947
11 Claims. (Cl. 18—17)

6. A press of the class described, comprising

relatively movable platens and means for moving one of said platens toward and from the other, said means comprising a movable platen-supporting device upon which the platen is pivoted, means on said device for yieldingly holding said platen in a position parallel to said other platen, and means associated with the rear side of said platen to restrain movement thereof as the platen is moved away from said other platen whereby said platen tilts on said supporting device out of parallelism with said other platen against the action of said yielding means, said platen supporting device having guiding surfaces, and guiding means associated with said device so as to maintain said platen parallel with said other platen until said platen is tilted, the supporting device having a relieved portion on one of its guiding surfaces to permit said device to tilt rearwardly when said platen is tilted.



10. In an article-molding press comprising relatively movable press platens each carrying a mold section for mating with a mold section on the other platen, of means in each mold section for supplying a fluid under pressure between the mold surface and the article molded, means for relatively moving said platens to close and open the mold, and means associated therewith for controlling the supply of fluid under pressure to said mold sections and operatively connected to said mold opening and closing means to supply fluid under pressure to one mold section as the mold is being opened and thereafter to supply fluid under pressure to the other mold section upon continued opening movement of the mold sections to strip the article first from one mold section and then from the other, said platens carrying upper and lower mold sections and said controlling means being operable first to strip the article from the lower mold section and thereafter to strip the article from the upper mold section.

2,169,147

UNHAIRING OF HIDES AND SKINS

Alphons O. Jaeger, Mount Lebanon, and Richard Herrlinger, Bridgeville, Pa., assignors to American Cyanamid & Chemical Corp., New York, N. Y., a corporation of Delaware

No Drawing. Application June 1, 1938, Serial No. 211,182

17 Claims. (Cl. 149—2)

14. A method of unhairing hides and skins which comprises contacting them for a sufficient period of time with an unhairing composition comprising an alkaline hydrolyzing agent and an aqueous dispersion of a compound having the formula



in which Z is a member of the group consisting of sulfur and oxygen, Pos is a member of the class consisting of salt-forming and ester-forming groups, and X is a member of the known class of keratin-splitting groups consisting of S—Me and NR_1R_2, in which Me is a salt-forming group and R_1 and R_2 are hydrogen or positive groups capable of forming a substituted amide.

2,169,148

UNHAIRING OF HIDES AND SKINS

Alphons O. Jaeger, Greenwich, Conn., and Richard Herrlinger, Bridgeville, Pa., assignors to American Cyanamid & Chemical Corp., New York, N. Y., a corporation of Delaware

No Drawing. Original application June 1, 1938, Serial No. 211,182. Divided and this application October 25, 1938, Serial No. 236,894

10 Claims. (Cl. 149—2)

9. A depilatory composition comprising an alkaline hydrolyzing agent and a xanthate.

2,169,149

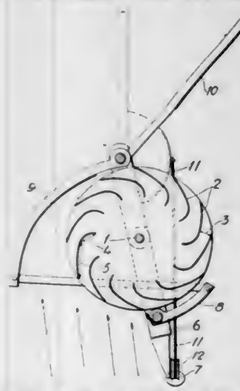
DOUBLE-ACTING WIND TURBINE

Johan Alfred Johanson, Stockholm, Sweden

Application June 11, 1938, Serial No. 213,273

In Sweden December 29, 1934

3 Claims. (Cl. 170—17)



1. A double-acting wind turbine comprising a shaft, end plates carried by the shaft, a plurality of blades circumferentially spaced around the shaft and extending axially between the end plates, each blade having an inner and an outer curved portion, the outer curved portion extending over approximately two-thirds of the width of each blade and having substantially the same radius of curvature as the radius of the turbine, the inner curved portion extending over the remaining one-third of the width of each blade and having a radius of curvature approximately equal to one-fifth of the radius of the turbine, the entire width of each blade being about seventy-five percent of the radius of the turbine.

2,169,150

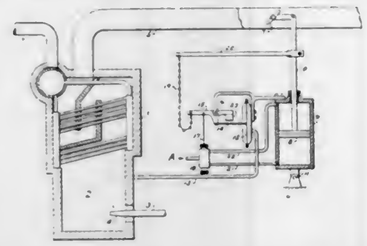
REGULATING APPARATUS

Clarence Johnson, East Cleveland, Ohio

Application June 1, 1936, Serial No. 82,768

8 Claims. (Cl. 121—41)

1. In combination, a pressure fluid controlling pilot valve having a source of supply and two outlet ports, a power cylinder having therein a piston, the said ports connected to the cylinder at opposite sides of said piston, said pilot valve



adapted to provide a pressure gradient adjacent said ports upon axial movement of the pilot, and loading means comprising a chain one end of which is positioned with said piston and the other end with said pilot.

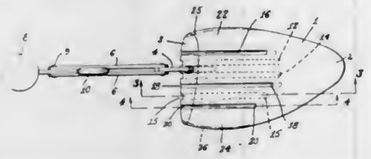
2,169,151

SHOETREE

Paul S. Jones, Brockton, Mass., assignor to Jones & Vining, Inc., Brockton, Mass., a corporation of Massachusetts

Application June 1, 1938, Serial No. 211,148

1 Claim. (Cl. 12—128.1)



A ventilated shoe tree of the kind described, having a forepart with a plurality of longitudinal slots extending entirely through from top to bottom of the forepart and a plurality of slots extending for a substantial distance in said forepart and opening from the rear face and bottom only of the forepart the material of said forepart permitting resilient springing action of the side portions to the extent afforded by the width of the slots nearest said side portions, in combination with expansible linkage elements between said forepart and a heel-engaging member.

2,169,152

AZO DYESTUFFS AND PROCESS OF MAKING SAME

Otto Kaiser, Basel, Switzerland, assignor to the firm Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application January 21, 1938, Serial No. 186,245. In Switzerland January 26, 1937

15 Claims. (Cl. 260—173)

7. The azo-dyestuffs containing at least one azo-group and at least one sulfonic acid group which are characterized by the presence of the atom grouping —N=N—R, in which R stands for an aromatic isocyclic six-membered ring substituted in ortho- and in para-position to the azo-group by an acylated amino-group each, which products are yellow to orange and brown powders dissolving in water to yellow to orange and brown solutions and dyeing the fiber similar tints.

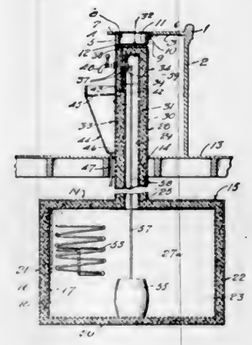
2,169,153

COMBINED BEER COOLING AND DISPENSING APPARATUS

William Kissinger, Kiel, Wis.

Application November 1, 1937, Serial No. 172,281

1 Claim. (Cl. 62—141)



In a combined beer cooling and dispensing apparatus, an insulated refrigerated closed upstanding hollow structure for positioning under and for extension to a point in proximity to a beer dispensing counter and for storing and refrigerating a beer source, a beer drainage collector arranged over the top of said structure and disposed in collecting relation with respect to the counter, said collector including a depending drain nipple arranged over the top of said structure, a refrigerated beer dispensing line leading from said source including an angularly disposed upper end terminal portion extending outwardly through the upper portion of a side of said structure and adapted to open in a faucet, an upstanding drainage conducting off pipe embedded in said side and top, extending upwarly from said top and having its upper end encompassing said drain nipple, the lower end of the conducting off pipe opening at the front of said side below the said terminal portion, means coacting with the front of said side to provide a laterally extended open top and closed bottom receptacle into which, below the top thereof said conducting off pipe discharges, a perforated partition within said receptacle below the lower end of the conducting off pipe, and a discharge pipe leading from the bottom of the receptacle.

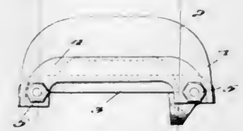
2,169,154

CURRENT COLLECTOR

Edward A. Lapham, Long Island City, N. Y.

Application December 16, 1938, Serial No. 246,215

6 Claims. (Cl. 191—59.1)



1. An electric current collector for trolley wires consisting of a body portion composed of compressed carbonaceous material impregnated with molten metal, whereby the normally porous structure of said body is rendered impervious to fluids.

2,169,155
LUBRICANT

Bert H. Lincoln, Ponca City, and Alfred Henriksen, deceased, late of Ponca City, Okla., by John W. Wolfe, administrator de bonis non, Ponca City, Okla., assignors, by mesne assignments, to The Lubri-Zol Development Corporation, Cleveland, Ohio, a corporation of Delaware

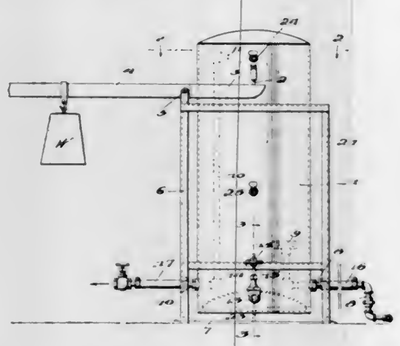
No Drawing. Application July 17, 1937, Serial No. 154,306
18 Claims. (Cl. 87—9)

1. A lubricating composition comprising a lubricating oil and a metallic salt of a halogenated naphthenic acid.

2,169,156
OIL AND GAS SEPARATOR

Lisander Losure, Marion, Ind., assignor of one-third to Milford F. Smith and one-third to Robert A. Bruce, both of Marion, Ind.

Application October 15, 1937, Serial No. 169,266
1 Claim. (Cl. 183—2.7)



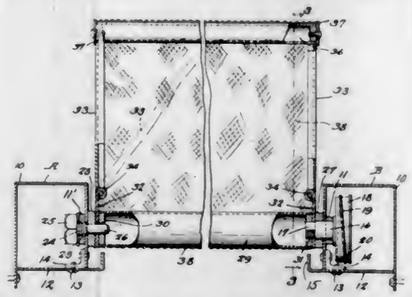
The combination of a support, a balancing lever pivoted thereon, a floating tank poised on the lever, an inlet pipe secured to the tank and flexibly connected to a supply pipe, a T on the discharge end of the inlet pipe which temporarily arrests the inflowing mixture and then discharges it laterally within the tank, whereby to break up the mixture and liberate any lighter than air portion of the mixture, an outlet pipe secured to the tank, and having a flexible extension outside of the tank, a pipe extending down from the upper end of the tank, and connected with and discharging into this outlet pipe, and having an open-ended cross at its upper end, which presents a plurality of openings to the lighter than air contents of the upper end of the tank, a pipe leading from the tank and having a valve therein connected with the support, and automatically controlled by the movement of the tank, and means for limiting and controlling any lateral movement of the lower end of the tank, thereby preventing undue strain upon the automatically operated valve.

2,169,157
SHUTTER

Cloyd A. McIlvaine, Balboa Heights, Canal Zone

Application April 24, 1937, Serial No. 138,830
6 Claims. (Cl. 189—62)

3. In a shutter of the class described a slat including a flexible covering, spaced bars within the covering, and means movably connected to one of the bars and slidably and detachably en-

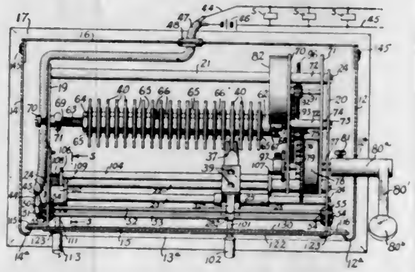


gaging the other bar for increasing the distance between the bars and holding the covering taut.

2,169,158
CODE CALLING SELECTOR

Christian Miller, New York, N. Y., assignor to Edwards and Company, Inc., a corporation of New York

Application October 17, 1935, Serial No. 45,399
12 Claims. (Cl. 177—380)



1. In a signaling apparatus having a plurality of rotatable coded cam members and contact means to be operated thereby, in combination, a rotatably mounted shaft of polygonal cross-section, a plurality of metal coded cam members, each apertured to be received on said shaft and each having mounted in its aperture an axially short section of a tube of insulating material whose opening is of polygonal cross-section sufficient to snugly receive therein said shaft, and means spacing adjacent coded cam members axially from one another.

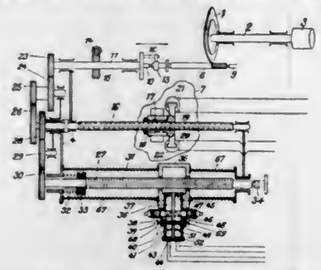
2,169,159
MEANS FOR ACCURATE SCREW CUTTING

Georg Möller, Berlin-Neukölln, Germany

Application January 13, 1939, Serial No. 250,831
In Germany June 11, 1938
10 Claims. (Cl. 51—95)

1. In a device for correcting speed variations of a thread forming machine, a feed screw provided with a thread extending therealong, a nut mounted on said screw to move longitudinally thereof upon rotation of the screw, means to support a workpiece movable with said nut, gearing connecting said workpiece and screw and causing rotation of the workpiece and screw simultaneously, means to drive said gearing, a spirally threaded scale geared to said screw to rotate therewith, said nut being shiftable circumferentially of said screw, and light sensitive

electro-magnetic means controlled by the rotation of said scale and acting to shift the nut cir-

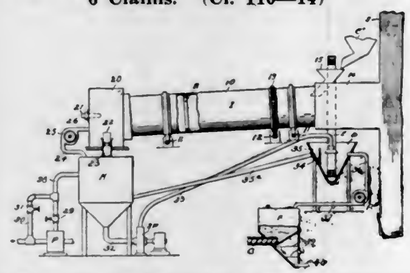


cumferentially of its screw upon longitudinal discrepancy of the screw with relation to said scale.

2,169,160
METHOD FOR DESTROYING SEWAGE

Henry H. Moreton, Laguna Beach, Calif.

Application February 20, 1936, Serial No. 64,981
6 Claims. (Cl. 110—14)

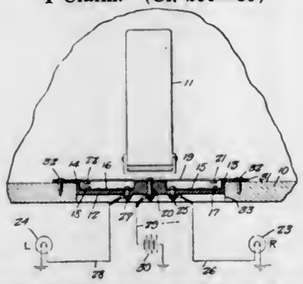


1. A method of treating sewage comprising mixing sewage sludge with a heated mass of inorganic granular material, removing excess liquid from the mixture, and effecting complete dehydration and incineration by causing the mixture to travel through a heated space capable of imparting a temperature to the mixture which will effect incineration of the organic constituents.

2,169,161
FOOT-CONTROLLED DIRECTIONAL LIGHT SWITCH

Walter S. Overly, Lima, Ohio

Application January 26, 1937, Serial No. 122,460
1 Claim. (Cl. 200—59)



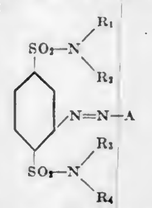
A switch of the class described comprising a base formed of a block of insulating material provided in the top face on opposite sides of its central portion with recesses, conductor strips on the bottom of the recesses, upstanding contact points on the outer ends of the strips, binding posts engaged with the inner ends of the strips and projecting through the bottom of the base, for securing the strips to the base, a spring metal plate forming a combined circuit closer and cover for the open tops of said recesses, said plate being adapted to be deformed at the ends downwardly into said recesses, depending contact points on the ends of said plate confronting the first named contact points, and a binding post engaged through the center of the plate and projecting through the bottom of the base between the first named binding past for securing the plate to the base.

2,169,162
AZO DYESTUFFS AND PROCESS FOR THE MANUFACTURE THEREOF

Pierre Petitcolas, Rouen, France, assignor to Compagnie Nationale de Matieres Coloranies et Manufactures de Produits Chimiques du Nord Reunies, Etablissements Kuhlman, Paris, France, a corporation of France

No Drawing. Application July 22, 1938, Serial No. 220,802. In France September 4, 1937
3 Claims. (Cl. 260—193)

1. The azo-dyestuffs of the following probable general formula:

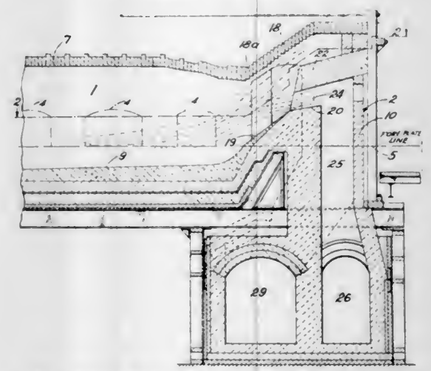


in which R_1, R_2, R_3, R_4 are members of the group consisting in the hydrogen atom, alkyl, aralkyl, aryl and cycloalkyl groups and A is the residue of a coupling component of the group consisting of the arylides of ortho-hydroxy-carboxylic acids and of acyl acetic acids.

2,169,163
OPEN HEARTH FURNACE

George W. Putnam, Youngstown, Ohio, assignor to The Republic Steel Corporation, Cleveland, Ohio, a corporation of New Jersey

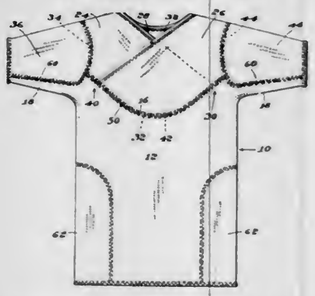
Application May 21, 1938, Serial No. 209,299
12 Claims. (Cl. 263—15)



1. An open hearth furnace including a melting chamber and mixing chambers at each end of said melting chamber, each mixing chamber having fuel and air passages opening thereinto thru ports

and having a port opening therefrom into the melting chamber, each mixing chamber having a steep apron sloping down uninterruptedly from the lower side of said fuel passage port, the included angle between said apron and a projection of said fuel passage into the mixing chamber being greater than about 20°.

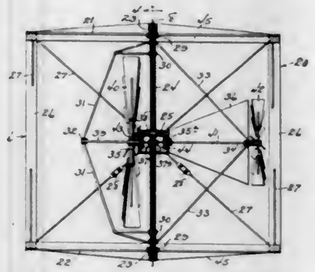
2,169,164
GARMENT HAVING CLOSED NECK OPENING
Harriet L. Redmond, Needham, Mass., assignor to The William Carter Company, Needham Heights, Mass., a corporation of Massachusetts
Application June 24, 1938, Serial No. 215,527
10 Claims. (Cl. 2—111)



1. A garment comprising a body portion of seamless tubular knit fabric, the front of said body portion terminating in an upper centrally concave edge and the back of said body portion terminating in shoulder-forming extensions connected to the front of said body portion thereby defining a closed neck opening for said garment, each of said extensions being formed of a single thickness of knit fabric integral with the back of said body portion, one of said extensions having an inner edge extending from one shoulder downwardly across the garment meeting said upper concave edge at a point inwardly of the opposite side of said tubular body portion, the other of said extensions having an inner edge extending from the other shoulder downwardly across the garment meeting said upper concave edge at a point inwardly of the other side of said tubular body portion, whereby said extensions overlap each other, said extensions having convex bottom edges seamed to the front of said body portion and to each other by a curved seam extending from the outer edge of one extension through said two points to the outer edge of the other extension, and having outer edges co-operating with edges of said body portion to define arm-hole edges for the garment.

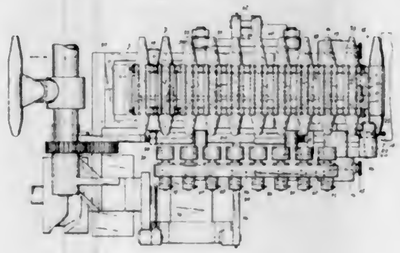
2,169,165
WIND PROPELLED TURBINE MOTOR
James A. Reedy, White Hall, Md.
Application May 24, 1938, Serial No. 209,781
6 Claims. (Cl. 170—39)

1. A device of the character described, comprising, a plurality of motor units connected together and each equipped with a drive shaft, a power take-off connected to said shafts, each of said units having a frame fashioned with upper and lower spaced sections connected together, a tube within said frame and extending around said drive shaft and formed with a gear box, front and rear frame works carried by said tube and equipped with bearings, front and rear propeller shafts journaled in said bearings and said gear box for rotation in opposite directions, wind-wheels mounted on said propeller shafts and the blades of the respective wind-wheels



being oppositely inclined, and gearing within said gear box effecting connection between said propeller shafts and said drive shaft whereby to actuate said drive shaft upon rotation of said wind-wheels in opposite directions.

2,169,166
APPARATUS FOR FORMING CIGAR TIPS
Constantin Friedrich Röber and Ernst Röthig, Dresden, Germany, assignors to "Universelle" Cigarettenmaschinen-Fabrik, J. C. Muller & Co., Dresden, Germany
Application October 15, 1937, Serial No. 169,305
In Germany October 17, 1936
13 Claims. (Cl. 131—39)

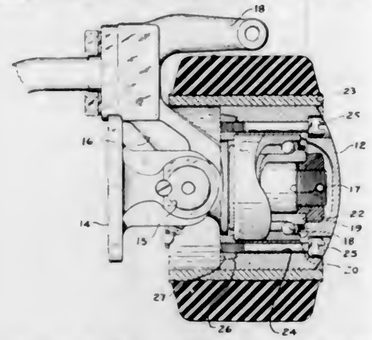


7. An apparatus for forming cigar tips comprising means for advancing cigars intermittently, a support, a series of cigar tip molds mounted resiliently on said support and means for applying said molds to the tips of said cigars at each stop of said advancing cigars.

2,169,167
WHEEL MOUNTING
Charles S. Schroeder, Philadelphia, Pa., assignor to The Yale & Towne Manufacturing Company, Stamford, Conn., a corporation of Connecticut
Application April 27, 1937, Serial No. 139,117
7 Claims. (Cl. 301—5)

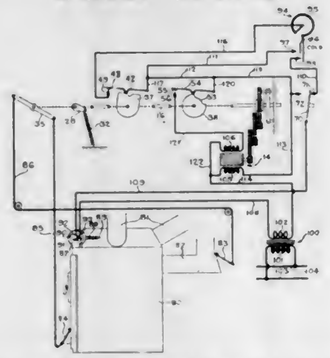
1. In a combination of the class described, an axle, a bearing having an inner and an outer race, means for securing the said bearing on said axle, a wheel supported on said outer race, a tire carrying rim on said wheel, a series of bolts carried by said wheel and extending from the outside thereof inwardly and parallel to said axle, and

means carried by the inner end surface of the bearing outer race cooperating with said bolts



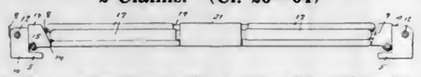
to secure said wheel and said means to said outer race.

2,169,168
DAMPER REGULATOR
Sylvanus C. Shipley, Minneapolis, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application February 24, 1936, Serial No. 65,274
12 Claims. (Cl. 236—9)



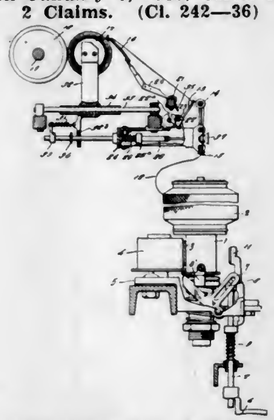
2. In combination, a motor, a driven member, driving connections between said motor and said driven member, yieldable means to drive said member in a direction opposite to that of the movement imparted by said motor, means to terminate movement of said driven member at predetermined extreme positions, and means comprising a stop movable to a position in the path of the driven member to terminate movement of said driven member at an intermediate position, and motor controlling means operative upon movement of said last named stop to cause movement of said driven member by either said motor or said yieldable means to said intermediate position.

2,169,169
STRETCH ROLL
Joseph Steiner, Willimantic, Conn.
Application February 21, 1939, Serial No. 257,734
2 Claims. (Cl. 26—64)



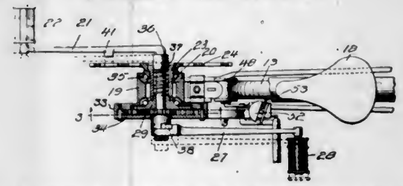
1. In a stretcher roll, a plurality of pairs of opposed slats, cam means for moving the slats successively in a longitudinal direction as the slats move against the cam means, each of the said slats being provided with a rack at its inner side and gears interposed between opposed slats and meshing with the corresponding racks.

2,169,170
STOP MOTION DEVICE
Pacific J. Thomas, Scranton, Pa., assignor to U. S. Textile Machine Co., Scranton, Pa., a corporation of Pennsylvania
Application January 7, 1938, Serial No. 183,896
2 Claims. (Cl. 242—36)



1. In combination with a twisting machine having a bobbin for furnishing thread to a take-up spool and a frictional drive for the spool and a reciprocal thread guide for guiding the thread from the bobbin to the spool, a yoke slidable on said machine and supporting the spool for movement into and out of engagement with the drive, spring influenced means acting on the yoke to disengage the spool from said drive and manually actuated to engage said spool with the drive, latch means coacting with the spring influenced means to releasably secure the latter in the manually set position, a drop wire means connected with said latch means and engaging the thread and supported in a selected position by the thread and adapted to assume a second position on the breaking of the thread, and means on said guide to engage the drop wire means when in the second-named position to actuate the latch for releasing of the spring influenced means to bring about disengagement of the spool from the drive.

2,169,171
GEARING FOR BICYCLES
Pastor Reyes Torres, Mandaluyong, Rizal, P. I.
Application July 26, 1937, Serial No. 155,782
2 Claims. (Cl. 74—280)



1. A bicycle comprising a frame having an axle housing, a pedal crank having an axle fitting said housing, a sprocket hub loose upon said axle

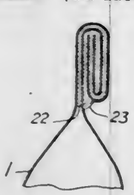
and having a separable driving sprocket, a second pedal crank detachably fitted to the said axle, a disk fixed to said hub, a gear loose on said axle, planetary pinions concentrically journaled on the disk and enmesh with the said gear on the axle, a coiled expansion spring having abutment on said axle and also seated against said disk, a latching lip on the second pedal crank, an abutment shoulder on the said gear loose upon the axle and engageable by said latching lip, a cam face next to the shoulder on said gear and coacting with the latching lip so that when the pedal cranks are at a standstill the lip will ride the cam face disengaging it from the shoulder and freeing the gear on the axle, and a latching jaw on the first-mentioned pedal crank and engageable with the sprocket gear upon lateral movement of the axle for the locking of the hub carrying the sprocket directly with the axle.

2,169,172
MOLDING
George Trautvetter, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 7, 1937, Serial No. 135,394
11 Claims. (Cl. 189—46)



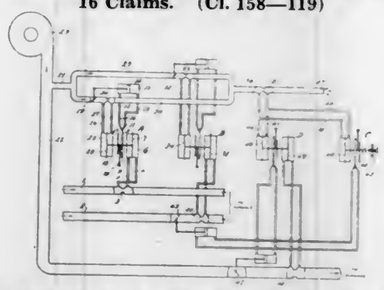
1. A hollow one-piece frame member of malleable or pliant metal having spaced shoulder portions between which a panel may be inserted and through which the panel may be attached, a plurality of wings extending from said shoulder portions, said wings being movable against the body of the frame member to cover the shoulder portions and form an outer finish molding in surface continuation of the body of the frame member.

2,169,173
PROCESS OF SEALING COLLAPSIBLE TUBES
Charles J. Westin, Philadelphia, Pa., assignor to F. J. Stokes Machine Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 25, 1933, Serial No. 667,823
Renewed April 2, 1937
9 Claims. (Cl. 113—121)



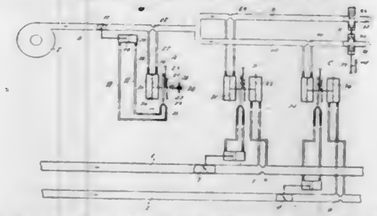
1. A process of sealing a collapsible, self-supporting tube which has been filled with the material it is to contain, which process consists in, coating the inner walls of the tube adjacent one end of said tube with a ring of cement, flattening the walls of said end of said tube into alignment without a bellows fold between them, folding the terminal end of said flattened portion so that it forms an angle to the adjacent part of said flattened portion, applying cement in fluid state only to one side of the tube to the walls of the tube forming said angle, and bending said terminal end against the adjacent part of said flattened portion of the tube.

2,169,174
METHOD OF AND APPARATUS FOR CONTROLLING THE FLOW OF FLUIDS
Herbert Ziebolz and Hubert J. Velten, Chicago, Ill., assignors to Askania-Werke A. G., a company of Germany
Application October 7, 1936, Serial No. 104,527
16 Claims. (Cl. 158—119)



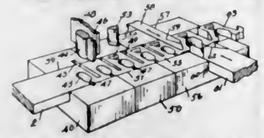
1. Apparatus for maintaining the sum of the flows of a plurality of pressure fluids substantially constant, comprising, in combination, a conduit for each of said pressure fluids; means responsive to the flow through each of said conduits; a pilot conduit for each of said pressure fluids; a source of pilot fluid; means controlled by said flow responsive means for varying the delivery of pilot fluid through said pilot conduits proportional to the flows of the respective first named pressure fluids; means responsive to the deviation of the sum of the pilot flows from a predetermined value; and means controlled by said deviation responsive means for varying the flow of at least one of the pressure fluids.

2,169,175
METHOD OF AND APPARATUS FOR CONTROLLING THE FLOW OF FLUIDS
Herbert Ziebolz and Hubert J. Velten, Chicago, Ill., assignors to Askania-Werke A. G., a company of Germany
Application October 7, 1936, Serial No. 104,528
10 Claims. (Cl. 158—119)



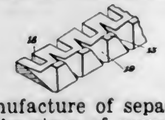
1. Apparatus for proportioning the relative flow and maintaining constant the sum of the flows of pressure fluids which are of different character and subject to variations in pressure, comprising, in combination, a main conduit for each of said pressure fluids; means for varying the flow through said main conduits; a source delivering pilot fluid at constant pressure; a discharge manifold connected to said source of pilot fluid having the same number of branches as there are main conduits; means for varying the discharge through said branches by oppositely and simultaneously restricting and opening the same in mutual dependence, while maintaining the total opening constant; and means responsive to the flow through each pilot conduit and connected to control the respective flow varying means in said main conduits.

2,169,176
METHOD OF MAKING SEPARABLE FASTENERS
Noel Joseph Poux, Meadville, Pa., assignor to Talon, Inc., Meadville, Pa., a corporation of Pennsylvania
Application December 16, 1933, Serial No. 702,766
Renewed February 10, 1939
21 Claims. (Cl. 29—148)



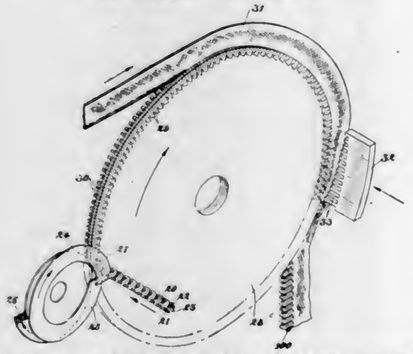
2. The method of forming interlocking members for separable fasteners which consists in shaping the said members while united in a strip, to form a plurality of interlocking members crosswise of the strip with crosswise extending jaws and then spreading the jaws while the various members are united in the strip.

2,169,177
METHOD OF MANUFACTURING SEPARABLE FASTENERS
Gideon Sundback, Meadville, Pa., assignor to Talon, Inc., Meadville, Pa., a corporation of Pennsylvania
Application June 2, 1933, Serial No. 674,056
Renewed November 1, 1937
8 Claims. (Cl. 18—59)



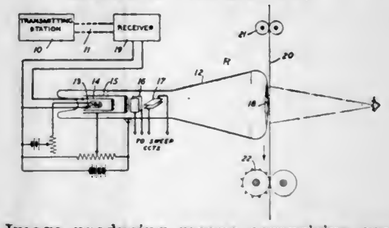
1. In the manufacture of separable interlocking fasteners, the steps of preparing a strip of plastic material, including a longitudinally extending rib, cutting notches in said rib to divide it into projections, cutting said strip between said projections to form separate interlocking members, and sticking the members to the edge of a flexible stringer by sufficiently softening portions of the members.

2,169,178
MACHINE FOR MAKING FASTENER STRINGERS
Gideon Sundback, Meadville, Pa., assignor to Talon, Inc., Meadville, Pa., a corporation of Pennsylvania
Application October 31, 1933, Serial No. 696,057
Renewed August 11, 1936
25 Claims. (Cl. 18—1)



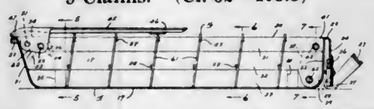
1. In a machine for making fastener stringers, the combination of means for feeding fastener members in predetermined positions, each fastener member having a slot, holding means having recesses for receiving the fastener members with the same uniform spacing and the same relative arrangement as the members on a finished stringer, means for introducing said fastener members into said recesses, means for guiding the edge of a tape into the slots of said members while held in such uniform spacing and arrangement, means for ejecting the assembled members and tape from said holding means, and means for automatically returning said holding means to position for receiving fastener members.

2,169,179
ELECTROOPTICAL SYSTEM
Frank Gray, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application November 5, 1935, Serial No. 48,299
15 Claims. (Cl. 178—7.5)



1. Image producing means comprising means for emitting light at any elemental portion of a field when impulsively energized in that portion, which light thereafter slowly decreases in intensity in a predetermined manner, means for causing image current representative of light tone values of successively scanned elemental areas of an object or field of view to control the impulsive energization of said light emitting means for each elemental portion of said field in turn and repeatedly at such a rate that said alternate increases and decreases in light intensity become apparent as a flicker to the eyes of an observer upon which said light impinges, and means through which said light passes and which is placed between said light emitting means and said observer for reducing said flicker, said last-mentioned means comprising a light transmitting screen, the transparency of which varies along its length.

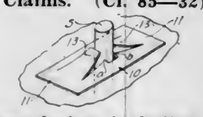
2,169,180
ICE TRAY
James W. Jacobs, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 17, 1938, Serial No. 230,466
9 Claims. (Cl. 62—108.5)



8. A unitary grid structure for disposition in an ice tray and removable therefrom as a unit, said grid structure comprising a longitudinal partition and a plurality of partitions disposed in spaced apart relation along the length of said longitudinal partition and extending outwardly therefrom, said longitudinal partition including three members cooperating with said outwardly extending partitions to form walls of a plurality

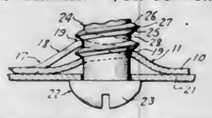
of ice block compartments, means for connecting said three members of said longitudinal partition and said plurality of outwardly extending partitions together in movable relation to one another, means for applying force between a first one and a second one of said members of said longitudinal partition to elevate a portion of said second one and the third one of said members together with said outwardly extending partitions relative to said first one of said members, and the connection of said members being so constructed and arranged that the elevation of said second and said third members with said outwardly extending partitions relative to said first member causes movement of said third member relative to said second member to thereby move said outwardly extending partitions for breaking the bond between ice blocks and the compartment walls and for liberating ice blocks from said compartments.

2,169,181
FASTENING DEVICE
Harold W. Kost, Ferndale, Mich., assignor, by mesne assignments, to Detroit Harvester Company, Detroit, Mich., a corporation of Michigan
Application July 27, 1938, Serial No. 221,506
4 Claims. (Cl. 85—32)



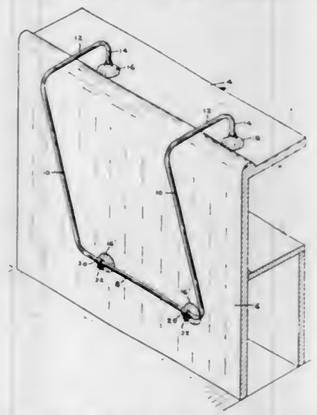
1. A fastening device, including a plate-like body formed of spring material so as to be capable of flexure and having an opening transverse of its longitudinal axis and between its ends to receive an element to be fastened, said body having a pair of opposed tongues the free ends of which define parts of the opening and which are formed to engage opposite sides of the element, the ends of said opening extending outwardly beyond the respective sides of the free end portions of the tongues to form a pair of pointed and spaced teeth at each end of the opening, each of said teeth projecting beyond the parts of the body between the teeth to such extent so that said parts will be free of engagement with the element whereby the teeth only will engage and bite against the element, all of said teeth engaging the element in a plane at right angles to the plane of engagement of the tongues with the element, thereby providing with the tongues a six-point engagement about substantially the perimeter of the element.

2,169,182
FASTENER
Harold W. Kost, Birmingham, Mich., assignor to Prestole Devices, Inc., Detroit, Mich., a corporation of Michigan
Application December 19, 1938, Serial No. 246,694
10 Claims. (Cl. 85—32)



1. A fastener of the type embodying a sheet metal structure or element designed for self-locking engagement by a screw comprising a substantially conical protuberance extending from the surface plane of said structure and having an opening in its apex for the passage of a screw, the edge wall of said opening being shaped to provide a single helical thread with the high and low points thereof separated by a radial slot, the wall of said protuberance being so shaped in radial section as to provide a gradually varying exterior concave surface circumferentially of the protuberance with the zone of greatest curvature occurring at the low point of the helix and changing from this to a substantially straight surface at the high point of the helix.

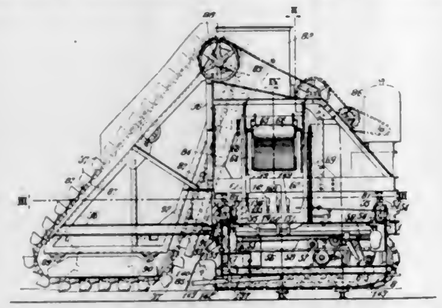
2,169,183
SERVICE STALL
Lawrence Fish, Minneapolis, Minn., assignor of one-half to Harry Millberg, Minneapolis, Minn.
Application September 3, 1938, Serial No. 228,380
2 Claims. (Cl. 312—140.4)



2. A service stall for use in connection with counters where drinks are served over a counter to customers, comprising a horizontal base member adapted to be positioned parallel with and in contact with a front portion of the counter, tubular side members extending forwardly and upwardly from the respective ends of said base member and spaced from each other the proper distance for admitting a waitress between them, the upper portions of said side members extending rearwardly the proper distance to bring their rear ends to a place above the front of the top surface of the counter when the stall is positioned for use at the front of the counter, and means for firmly securing the stall when thus positioned to the counter.

2,169,184
GRADING AND EXCAVATING MACHINE
Alfred W. French, Chicago, Ill.
Application August 20, 1936, Serial No. 97,019
45 Claims. (Cl. 37—108)

1. A machine of the type specified comprising a vehicle, a runway mounted thereon and extending laterally thereof, manually controlled power actuated mechanism for raising, lowering and tilting said runway, a traveling earth-removing and elevating mechanism mounted upon said runway, an engine carried by said last-named mechanism for actuating the same, an engine on the vehicle frame and geared to said last-named mechanism for effecting automatic travel of the latter on said runway in alternately different directions and for propelling the vehicle, and means operatively associated with said gearing between said last-named engine and said earth removing mechanism for automatically reversing



travel of the latter on said runway between predetermined limits of said travel.

2,169,185
LUBRICATING OILS
Bernard H. Shoemaker and Clarence M. Loane, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application May 19, 1937, Serial No. 143,528
6 Claims. (Cl. 87—9)

1. The method of lubricating hard metal alloy bearings having the corrosive susceptibility of alloy bearings of the group consisting of cadmium-silver alloys, cadmium-nickel alloys and copper-lead alloys in internal combustion engines without causing corrosion thereto which comprises applying to said bearings a lubricant comprising a mineral lubricating oil normally corrosive to said bearings and from about 0.05% to about 2% of a chloralkyl phosphite.

2,169,186
DIESEL FUEL
Bernard H. Shoemaker and Howard R. Batchelder, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana
No Drawing. Application June 30, 1937, Serial No. 151,180
8 Claims. (Cl. 44—9)

1. A high speed Diesel engine fuel comprising a fuel oil and a small amount of an organic compound having the general formula $RSNX_m$ in which R is a radical selected from the group consisting of alkyl and aryl radicals, X is an element selected from the group consisting of oxygen and sulfur and m is a whole number having a a value not greater than 2.

2,169,187
COPPER BASE ALLOY
James M. Kelly, Trafford, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application October 21, 1938, Serial No. 236,299
6 Claims. (Cl. 148—32)

1. An alloy comprising from a small but effective amount up to 5% of cobalt, from a small but effective amount up to 5% of iron, from a small but effective amount up to 5% of zirconium, with the balance substantially all copper.

2,169,188
COPPER BASE ALLOY
James M. Kelly, Trafford, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application October 21, 1938, Serial No. 236,300
8 Claims. (Cl. 148—32)

1. An alloy comprising from a small but effective amount up to 5% of cobalt, from a small but effective amount up to 5% of iron, from a small but effective amount up to 3% of metal selected from the group consisting of zinc and cadmium, and the balance substantially all copper.

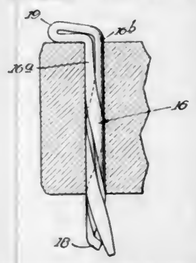
2,169,189
COPPER BASE ALLOY
James M. Kelly, Trafford, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application October 21, 1938, Serial No. 236,301
5 Claims. (Cl. 148—32)

3. An age hardened alloy comprising from about .5% to 3% of cobalt, from about .5% to 3% of iron, from a small but effective amount up to 3% of silver with the balance substantially all copper which has been quenched from a temperature of between 750° C. and 1075° C. and aged at a temperature of between 450° C. and 600° C.

2,169,190
COPPER BASE ALLOY
James M. Kelly, Trafford, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application October 21, 1938, Serial No. 236,302
4 Claims. (Cl. 148—32)

3. An age hardened alloy comprising from about 5% to 3% of cobalt, from about .5% to 3% of iron, from about .05% to 5% of beryllium with the balance substantially all copper which has been quenched from a temperature of between 750° C. and 1075° C. and aged at a temperature of between 450° C. and 600° C.

2,169,191
COTTER PIN
Malcolm A. Smith, Hagerstown, Ind.
Application July 23, 1938, Serial No. 220,871
8 Claims. (Cl. 85—8.5)



1. A cotter pin comprising a pair of legs twisted to provide thereon complemental helical surfaces extending throughout the length of each leg in abutting relation, a looped head connecting said legs at one end and being deformable to move said

legs relatively in longitudinal direction and thereby cause said abutting helical leg surfaces to act as spreading cams that simultaneously and uniformly spread said legs substantially throughout their length.

2,169,192

HYDROCARBONS FROM VACUUM DISTILLATION OF FISH OIL

James G. Baxter, Rochester, N. Y., assignor, by mesne assignments, to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application June 12, 1936, Serial No. 84,870
6 Claims. (Cl. 260—676)

1. As a new composition of matter obtainable by vacuum distillation of a fish oil and being composed of saturated hydrocarbons having a probable formula of or between $C_{15}H_{32}$ and $C_{19}H_{40}$ and boiling without decomposition at between 265 and 310° C. at 760 mm. and at between 125° and 177° at 12 mm., having a melting point of between —18° and —22° C. and being resistant to boiling with aqueous potassium permanganate.

2,169,193

CHROMIUM-TITANIUM-SILICON ALLOY

George F. Comstock, Niagara Falls, N. Y., assignor to The Titanium Alloy Manufacturing Company, New York, N. Y., a corporation of Maine

No Drawing. Application January 6, 1938, Serial No. 183,583
4 Claims. (Cl. 75—134)

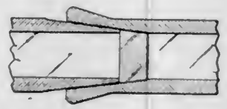
1. An alloy of chromium and titanium for metallurgical use having the approximate composition range: 10 to 30% titanium, 15 to 45% chromium, 20 to 45% silicon, 0.1 to 25% iron, 0.1 to 3% aluminum, 0.01 to 1% carbon, and not over 5% of other impurities.

2,169,194

CHEMICAL APPARATUS

William O. Geyer and Charles A. Weller, Bloomfield, N. J.; said Weller assignor to said Geyer

Application March 20, 1937, Serial No. 132,045
4 Claims. (Cl. 285—161)



1. In a glass joint consisting of male and female parts having complementary shaped annular surfaces ground to seat together, a surfacing layer of a glaze composition sintered and fused onto and into each said ground surface, said glaze composition having a melting point substantially below the softening point of the glass composition comprising said parts.

2,169,195

PRODUCTION OF VITAMIN A ESTERS

Kenneth C. D. Hickman and Arthur O. Tischer, Rochester, N. Y., assignors, by mesne assignments, to Distillation Products, Inc., Rochester, N. Y., a corporation of Delaware

No Drawing. Application December 28, 1935, Serial No. 56,587
17 Claims. (Cl. 260—410)

1. The process which comprises subjecting an animal oil containing vitamin A in the alcohol form to molecular distillation separating a distillate containing vitamin A in the alcohol form and esterifying the alcohol content of the distillate with an aliphatic acylating agent.

2,169,196

PROCESS FOR THE PREPARATION OF DIBROMOAMINOANTHRAQUINONE COMPOUNDS AND PRODUCTS OBTAINABLE THEREBY

Henry R. Lee, South Milwaukee, and David X. Klein, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 21, 1937, Serial No. 170,190
5 Claims. (Cl. 260—379)

1. The process for preparing 1-amino-2,4-dibromoanthraquinone compounds which comprises reacting upon a 1-amino-2-anthraquinonesulfonic acid with bromine in an aqueous solution, sufficient bromine being introduced to completely replace the sulfonic acid radical which is present in the 2 position.

4. 1-amino-2,4-dibromoanthraquinone carrying in one of the positions 5 and 6 a radical of the class consisting of —OR, —OR'OH and

OR'OR'OH,

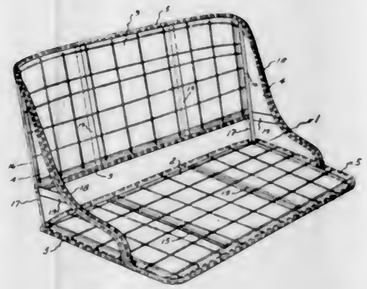
wherein R stands for an alkyl radical containing not more than 2 carbon atoms and wherein R' in each case stands for an alkylene radical containing not more than 2 carbon atoms.

2,169,197

SEAT STRUCTURE

Clair S. Reed, Jackson, Mich., assignor to Reynolds Spring Company, Jackson, Mich., a corporation of Delaware

Application December 9, 1935, Serial No. 53,537
3 Claims. (Cl. 155—5)



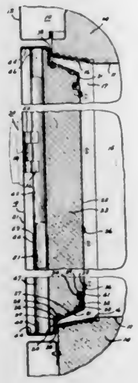
3. A front seat frame for automobiles, comprising a substantially rectangular bottom frame upon which the seat frame of the cushions are adapted to be directly supported, a back frame including vertical columns anchored at their lower ends to said bottom frame, a frame fastened at its opposite ends to the opposite sides of said bottom frame extending upwardly and rearwardly, the intermediate section thereof constituting the upper border of said back frame, a member forming the lower edge of said back frame, metal rods supported from said back and bottom frame to form a reticular framework for said back and bottom frame to impart rigidity thereto and to provide supporting surfaces for the back and seat cushions.

2,169,198

REFRIGERATING APPARATUS

Edmund F. Schweller, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware

Application October 29, 1937, Serial No. 171,749
8 Claims. (Cl. 20—35)



1. A frameless door for closing an opening in a wall of a cabinet comprising, a shell structure including a metal member forming one face thereof, a member forming another face of the shell structure door, means for securing said door facing members together in spaced apart relation to provide a chamber therebetween, insulating material within said chamber, said insulating material extending from the inner surface of one edge to the inner surface of an opposed edge of said door shell structure to insulate said door continuously throughout the cross sectional area of said chamber, said metal member having a portion directed inwardly from the outer extremities thereof and extending in a single plane entirely around the door, said portion of said metal member forming a shoulder extending continuously around the door and adapted to face the cabinet for registration with the wall thereof having the opening therein to be closed by said door, and a substantially I-shaped torque tube device located within said door shell structure for preventing twisting thereof and having portions engaging said metal member to maintain its shoulder forming portion in its single plane of extension around said door.

2,169,199

DULL FINISH CELLULOSE DERIVATIVE COATING

Raymond E. Thomas, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 22, 1937, Serial No. 155,009
8 Claims. (Cl. 91—68)

7. The process of preparing dull finishes on fabrics to simulate leather which comprises dissolving cellulose nitrate in a solvent, dissolving about an equal amount of cellulose acetate in a solvent, mixing the two solutions and while stirring, adding an organic liquid thereto which precipitates the cellulose acetate in the form of a fine, cloudy, colloidal dispersion and thereafter applying the said mixture to a fabric previously coated with a cellulose derivative composition.

2,169,200

DULL FINISH COATED FABRIC AND PROCESS OF MAKING THE SAME

Frank G. Uhler, Newburgh, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 6, 1937, Serial No. 173,195
3 Claims. (Cl. 91—68)

3. In the process of preparing artificial leather wherein a fabric is coated with a cellulose derivative composition, the improvement which comprises the securing of a dull finish by preparing a cellulose nitrate dispersion, preparing a cellulose acetate dispersion, mixing the two dispersions to form a clear homogeneous liquid, and thereafter precipitating cellulose acetate only throughout the cellulose nitrate solution in the form of a fine cloud by adding a precipitant selected from the group consisting of hydrocarbons of the benzene series, alcohols, and esters, stirring said mixture until it is uniform and has a milky-white appearance, and thereafter applying the mixture to said coated fabric.

2,169,201

REFRIGERATOR CONSTRUCTION

William R. M. Very, Haddonfield, N. J., assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware

Application February 10, 1930, Serial No. 427,104
Renewed July 13, 1939
15 Claims. (Cl. 62—116)



12. In combination, a cabinet having a thermally insulated food storage compartment, a second thermally insulated compartment separable from said cabinet, cooling means located entirely within said separable compartment, and a heat conductor permanently located within said food storage compartment and passing through the walls of said compartments into contact with said cooling means.

2,169,202

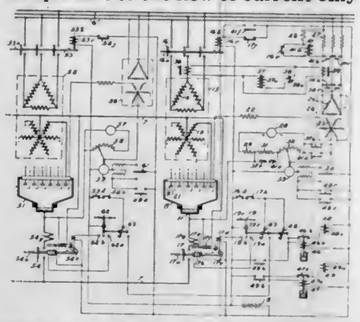
ELECTRIC VALVE PROTECTIVE SYSTEM

Harold Winograd, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application August 4, 1937, Serial No. 157,243
17 Claims. (Cl. 175—363)

1. In an electric translating system, the combination with an electric valve and means for controlling the conductivity of said valve, of means responsive to the flow of current only above a predetermined value through said valve

for controlling said conductivity controlling means to reduce the conductivity of said valve a predetermined constant extent above zero, and means responsive to the flow of current only above



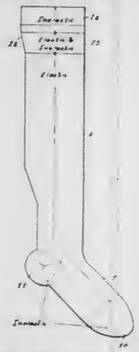
a predetermined value greater than the first said predetermined value through said valve co-operating with the first said current responsive means in controlling said conductivity controlling means to render said valve non-conductive.

2,169,203

STOCKING

Edward C. Hinchliff, Rockford, Ill., assignor to Burson Knitting Company, Rockford, Ill., a corporation of Illinois

Application November 14, 1933, Serial No. 697,951
Renewed October 6, 1937
7 Claims. (Cl. 66—178)



7. As a new article of manufacture, a flat fashioned knitted fabric composed of more than one elastic yarn each of which is subject to variations in size and appearance at intervals throughout its length, each yarn being entered in the fabric at each time for a single course only, so that the same yarn will not occur in consecutive courses, whereby to prevent recurrence in consecutive courses of odd portions in either of said yarns.

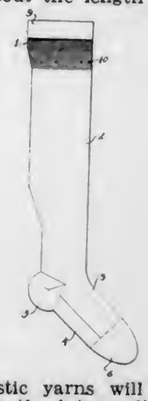
2,169,204

STOCKING

Edward C. Hinchliff, Rockford, Ill., assignor to Burson Knitting Company, Rockford, Ill.

Original application November 14, 1933, Serial No. 697,951. Divided and this application April 17, 1939, Serial No. 268,179
12 Claims. (Cl. 66—172)

12. A stocking including a knitted top fabric, a knitted leg fabric, and a knitted intermediate fabric located above the knee portion of the stocking and connecting the top fabric and the leg fabric together, said intermediate fabric being fabricated from an alternating arrangement of courses of elastic and inelastic yarns interlooped together throughout the length of the courses,



whereby the elastic yarns will have two-way stretch to provide the intermediate fabric with two-way elastic stretch both circumferentially and longitudinally of the stocking to relieve the top fabric and leg fabric of excessive strains.

2,169,205

CAMERA-BELLOWS-FORMING MACHINE

Elias J. Hornung, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application February 24, 1938, Serial No. 192,365
19 Claims. (Cl. 93—36)

1. In a bellows folding machine, the combination with substantially air tight clamps for holding the two ends of a bellows blank, of a plurality of movably mounted fold plates, and mechanism for moving said plates toward the bellows blank and for admitting compressed air into said bellows for holding the bellows thereagainst to form folds in the bellows, movably mounted carriers for the clamps, and means for retracting the fold plates and for moving the clamps toward each other for compressing the bellows.

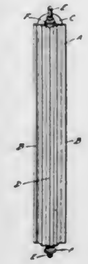
2,169,206

WINDSHIELD AND WINDOW CLEANER

Saul Krongold, Uniontown, Pa.

Application January 25, 1937, Serial No. 122,103
1 Claim. (Cl. 15—245)

A window cleaner, consisting of an elongated semi-circular case into which is journalled a shaft upon which is mounted a rubber wiper body having a plurality of wiping edges integral therewith and disposed longitudinally of and spaced about the periphery thereof, means to hold said



shaft in a rigid position within the case, and means connected to the case for moving same over a surface to be wiped, all substantially as shown and described.

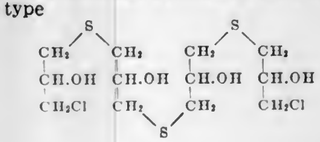
2,169,207

MANUFACTURE OF CELLULOSE XANTHATE DERIVATIVES AND ARTIFICIAL MATERIALS THEREFROM

Leon Lilienfeld, Vienna, Austria; Paul Abel, Vienna, Austria (Germany), or in case of his inability to act Emerich Hunna, Vienna, Austria (Germany), executor and Antonette Lilienfeld, Vienna, Austria (Germany), sole heir of Leon Lilienfeld, deceased

No Drawing. Application March 8, 1932, Serial No. 597,640. In Great Britain March 31, 1931
34 Claims. (Cl. 18—54)

17. The herein described new intermediate suitable for the preparation of artificial structures, which comprises a solution of a reaction product of a cellulose xanthate with a compound of the type



DESIGNS

AUGUST 8, 1939

116,004

DESIGN FOR A COMBINED WATER AND ICE BAG

Raymond W. Albright, Akron, Ohio, assignor to American Anode Inc., Akron, Ohio, a corporation of Delaware

Application May 31, 1939, Serial No. 85,270

Term of patent 14 years



The ornamental design for a combined water and ice bag, as shown.

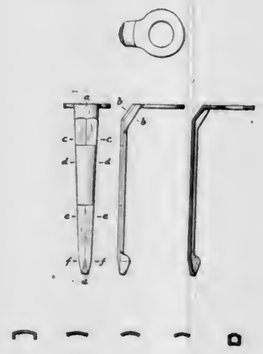
116,005

DESIGN FOR A PEN AND PENCIL CLIP

Leon Hehl Ashmore, Collingswood, N. J., assignor to The Esterbrook Steel Pen Manufacturing Co., Camden, N. J., a corporation of New Jersey

Application May 10, 1938, Serial No. 77,092

Term of patent 14 years



The ornamental design for a pen and pencil clip, substantially as shown.

116,006

DESIGN FOR A LADY'S HANDBAG OR SIMILAR ARTICLE

Marcel Charles Leon Baillod, Paris, France

Application May 15, 1939, Serial No. 85,001

In France February 24, 1939

Term of patent 3½ years



The ornamental design for a lady's handbag or similar article, substantially as shown and described.

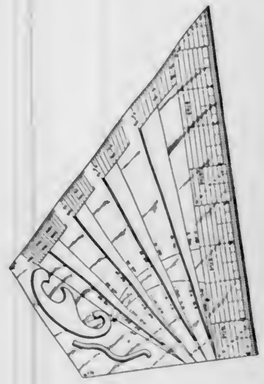
116,007

DESIGN FOR A COMBINATION DRAWING INSTRUMENT

Peter J. Bakallie, New York, N. Y.

Application April 14, 1939, Serial No. 84,273

Term of patent 14 years



The ornamental design for a combination drawing instrument, as shown and described.

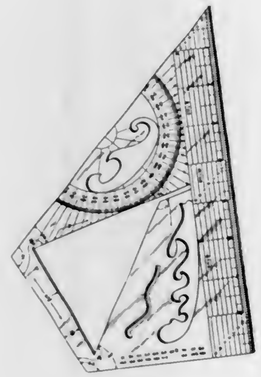
116,008

DESIGN FOR A COMBINATION DRAWING INSTRUMENT

Peter J. Bakallie, New York, N. Y.

Application April 17, 1939, Serial No. 84,348

Term of patent 14 years



The ornamental design for a combination drawing instrument as shown and described.

116,009

DESIGN FOR A FISHERMAN'S WADING BOOT

Ross Bartlett, Cortland, N. Y.

Application May 13, 1939, Serial No. 84,966

Term of patent 14 years



The ornamental design for a fisherman's wading boot, as shown and described.

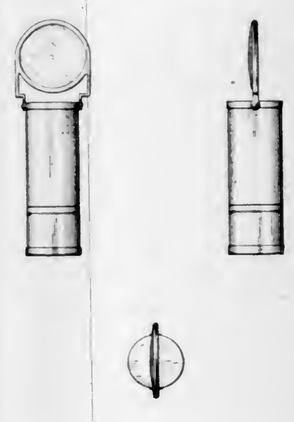
116,010

DESIGN FOR A COMBINED LIPSTICK CASE AND MIRROR

Arthur R. Botham, New York, N. Y., assignor to Coty, Inc., Wilmington, Delaware, a corporation of Delaware

Application May 6, 1939, Serial No. 84,835

Term of patent 7 years



The ornamental design for a combined lipstick case and mirror, as shown and described.

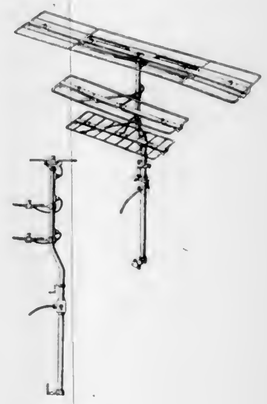
116,011

DESIGN FOR A DISPLAY STAND

William J. Bovers, Woodhaven, N. Y., assignor to F. W. Woolworth Co., New York, N. Y., a corporation of New York

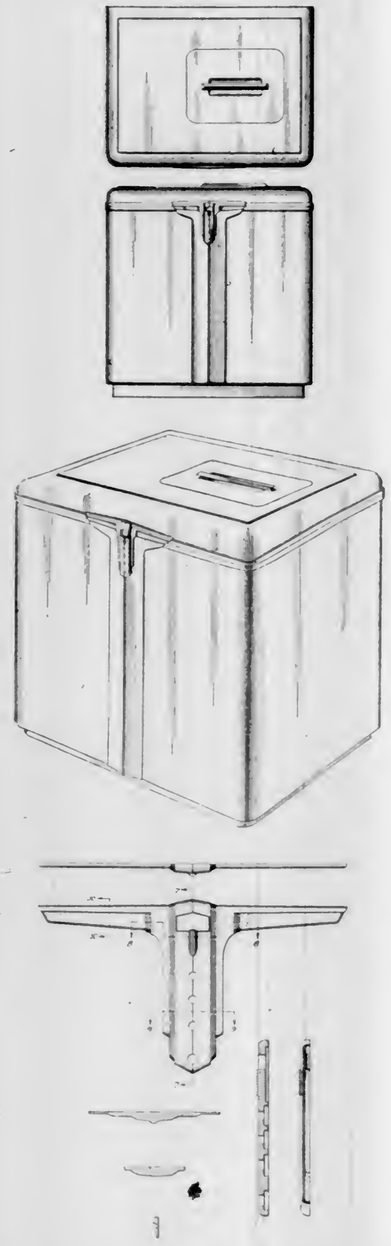
Application April 22, 1939, Serial No. 84,500

Term of patent 7 years



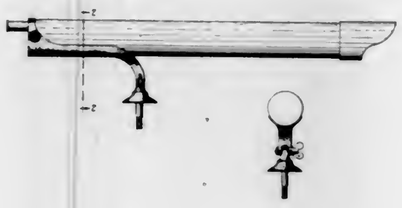
The ornamental design for a display stand, as shown.

116,012
DESIGN FOR A WASHING MACHINE CABINET
Hyman D. Brotman, Detroit, Mich.
Application May 29, 1939, Serial No. 85,243
Term of patent 14 years



The ornamental design for a washing machine cabinet, as shown.

116,013
DESIGN FOR A TELESCOPE
Leo H. Brown, New York, N. Y.
Application April 14, 1939, Serial No. 84,291
Term of patent 7 years



The ornamental design for a telescope, substantially as shown.

116,014
DESIGN FOR A RUG
William Brown, Scarsdale, N. Y.
Application June 26, 1939, Serial No. 85,693
Term of patent 3½ years



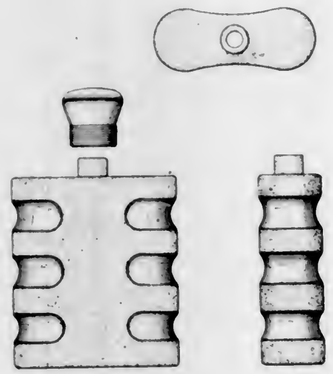
The ornamental design for a rug, substantially as shown and described.

116,015
DESIGN FOR A RUG
William Brown, Scarsdale, N. Y.
Application June 26, 1939, Serial No. 85,694
Term of patent 3½ years



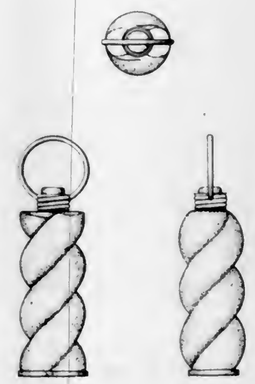
The ornamental design for a rug, substantially as shown and described.

116,016
DESIGN FOR A COMBINED BOTTLE AND CLOSURE THEREFOR
John D. Buckingham, Chicago, Ill., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application May 1, 1939, Serial No. 84,711
Term of patent 7 years



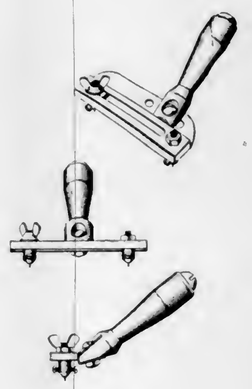
The ornamental design for a combined bottle and closure therefor, as shown.

116,017
DESIGN FOR A PERFUME BOTTLE OR SIMILAR ARTICLE
John D. Buckingham, Chicago, Ill., assignor to Lucien Lelong, Inc., Chicago, Ill., a corporation of Illinois
Application June 14, 1939, Serial No. 85,485
Term of patent 7 years



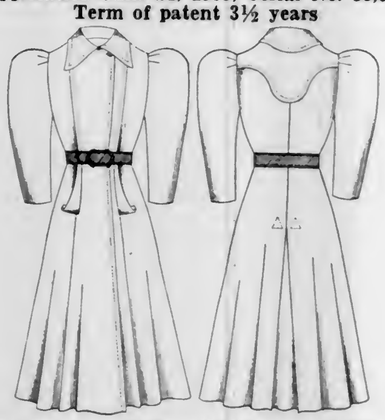
The ornamental design for a perfume bottle or similar article, as shown.

116,018
DESIGN FOR A SCRIBING TOOL
Murinda Marie Cathcard, Independence, Mo.
Application May 15, 1939, Serial No. 84,998
Term of patent 14 years



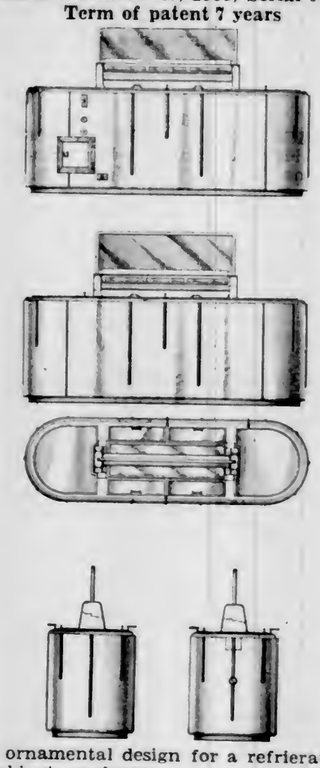
The ornamental design for a scribing tool, as shown.

116,019
DESIGN FOR A COAT
Benjamin Chalk, New York, N. Y.
Application June 24, 1939, Serial No. 85,656
Term of patent 3½ years



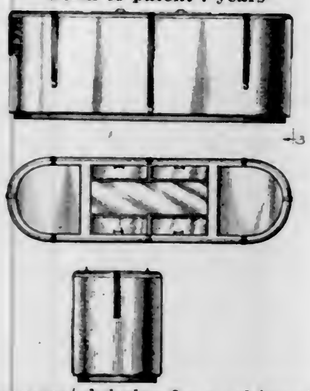
The ornamental design for a coat, substantially as shown.

116,020
DESIGN FOR A REFRIGERATING DISPLAY CABINET
Leonard F. Clerc, Chicago, Ill.
Application December 17, 1938, Serial No. 81,843
Term of patent 7 years



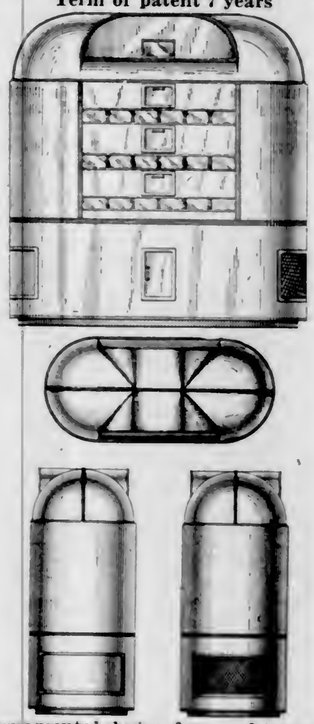
The ornamental design for a refrierating display cabinet, as shown.

116,021
DESIGN FOR A REFRIGERATING DISPLAY CABINET
Leonard F. Clerc, Chicago, Ill.
Application January 7, 1939, Serial No. 82,221
Term of patent 7 years



The ornamental design for a refrigerating display cabinet, as shown.

166,022
DESIGN FOR A REFRIGERATING DISPLAY CABINET
Leonard F. Clerc, Chicago, Ill.
Application January 7, 1939, Serial No. 82,222
Term of patent 7 years



The ornamental design for a refrigerating display cabinet, as shown.

116,023
DESIGN FOR A COMBINED MASK AND RESPIRATOR
Howard M. Dodge, Wabash, Ind., and Herman T. Kraft, Akron, Ohio, assignors to The General Tire & Rubber Company, Akron, Ohio, a corporation of Ohio
Application December 5, 1938, Serial No. 81,595
In France October 7, 1938
Term of patent 14 years



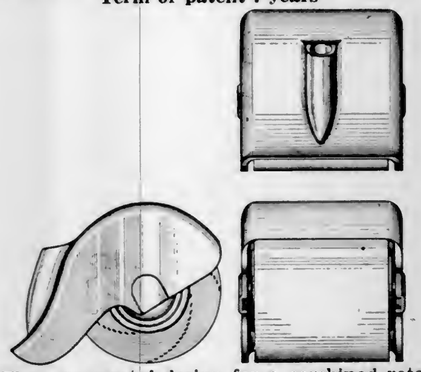
The ornamental design for a combined mask and respirator, substantially as shown and described.

116,024
DESIGN FOR A PLUG FOR BATHTUBS, SINKS, AND THE LIKE
Edward Gassman, Brooklyn, N. Y.
Application May 24, 1939, Serial No. 85,172
Term of patent 3½ years



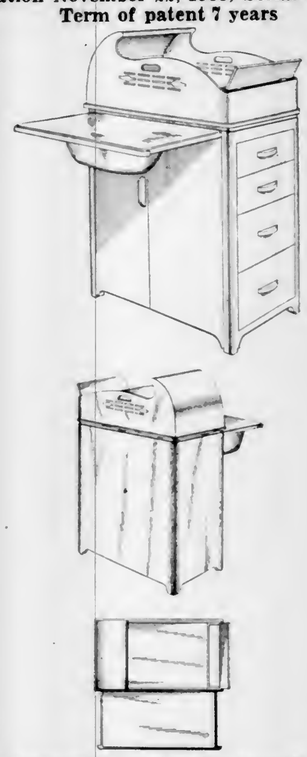
The ornamental design for a plug for bathtubs, sinks, and the like, as shown.

116,025
DESIGN FOR A COMBINED ROTARY BLOTTER AND PENHOLDER
Lorenz Grünzweig, Kew Gardens, N. Y.
Application December 3, 1938, Serial No. 81,537
Term of patent 7 years



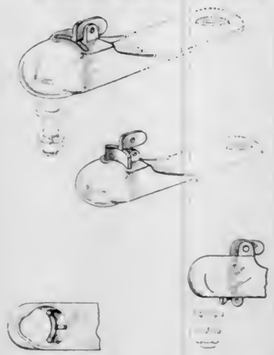
The ornamental design for a combined rotary blotter and penholder, as shown.

116,026
DESIGN FOR AN INFANT'S UTILITY CABINET
Clifford V. Hammond, San Francisco, Calif.
Application November 22, 1938, Serial No. 81,287
Term of patent 7 years



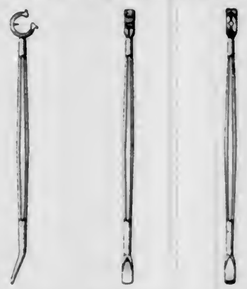
The ornamental design for an infant's utility cabinet, substantially as shown.

116,027
DESIGN FOR A TRAILER COUPLER OR SIMILAR ARTICLE
Bertron G. Harley, Saco, Maine
Application January 5, 1939, Serial No. 82,173
Term of patent 14 years



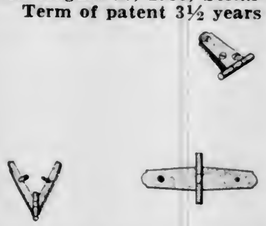
The ornamental design for trailer coupler or similar article, as shown and described.

116,028
DESIGN FOR A CIGARETTE HOLDER
Philip F. Havey, Washington, D. C.
Application December 9, 1938, Serial No. 81,689
Term of patent 7 years



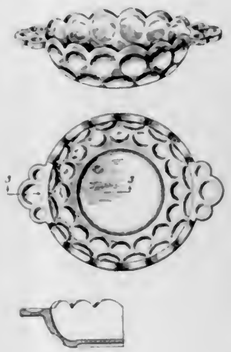
The ornamental design for a cigarette holder, substantially as shown.

116,029
DESIGN FOR A CUFF LINK OR SIMILAR ARTICLE
George W. Headley, 3d, New York, N. Y., assignor to Paul E. Flato, New York, N. Y.
Application August 10, 1938, Serial No. 79,218
Term of patent 3½ years



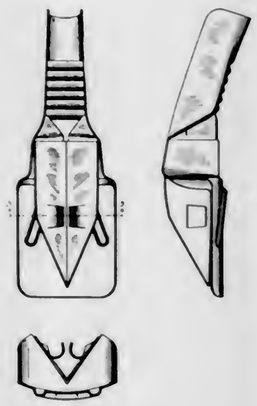
The ornamental design for a cuff link or similar article, substantially as shown and described.

116,030
DESIGN FOR A GLASS JELLY DISH OR ARTICLE OF SIMILAR NATURE
T. Clarence Heisey, Newark, Ohio, assignor to A. H. Heisey & Company, Newark, Ohio, a corporation of Ohio
Application May 8, 1939, Serial No. 84,872
Term of patent 14 years



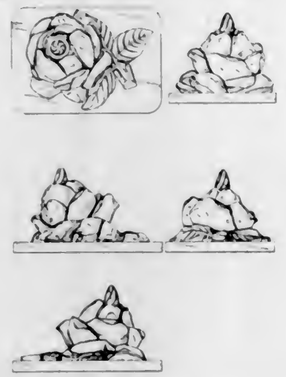
The ornamental design for a glass jelly dish or article of similar nature, substantially as shown.

116,031
DESIGN FOR A CAN OPENER
John H. Horstman, Dayton, Ohio, assignor to The Huffman Manufacturing Company, Dayton, Ohio, a corporation of Ohio
Application June 14, 1939, Serial No. 85,488
Term of patent 7 years



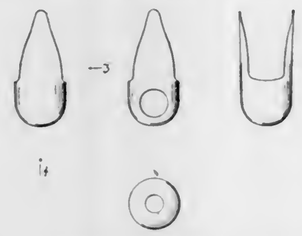
The ornamental design for a can opener, substantially as shown.

116,032
DESIGN FOR A PERFUME BOTTLE
Harry Jacknick, Arverne, Long Island, N. Y.
Application May 24, 1939, Serial No. 85,173
Term of patent 7 years



The ornamental design for a perfume bottle, as shown.

116,033
DESIGN FOR A PULL-CORD CLIP FOR WINDOW BLINDS OR THE LIKE
William M. Jones, Anderson, Ind.
Application May 19, 1939, Serial No. 85,087
Term of patent 7 years



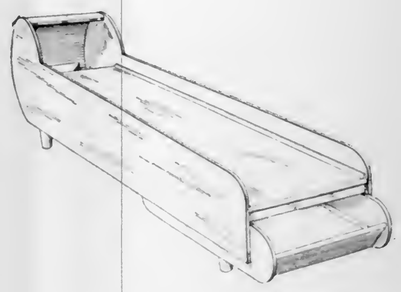
The ornamental design for a pull-cord clip for window blinds or the like, as shown.

116,034
DESIGN FOR A TOY DOG
Hattie E. Kelly, Mineral Wells, Tex.
Application November 7, 1938, Serial No. 80,909
Term of patent 7 years



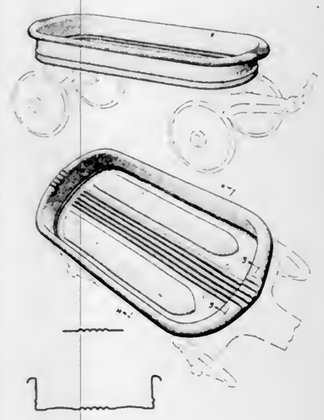
The ornamental design for a toy dog, substantially as shown.

116,035
DESIGN FOR A BOWLING ALLEY
Leo J. Kelly, Chicago, Ill., assignor to The Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application April 19, 1939, Serial No. 84,381
Term of patent 3½ years



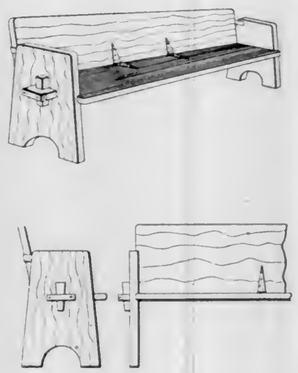
The ornamental design for a bowling alley, as shown.

116,036
DESIGN FOR A TOY WAGON
Herman L. Kraeft, Cleveland Heights, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application December 24, 1938, Serial No. 81,984
Term of patent 7 years



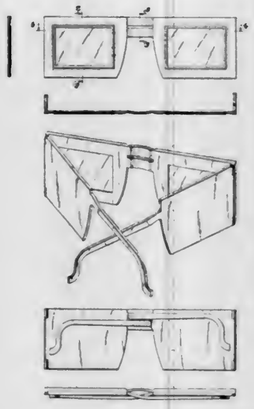
The ornamental design for a toy wagon, substantially as shown and described.

116,037
DESIGN FOR A FOLDING BENCH OR SIMILAR ARTICLE OF FURNITURE
Ada H. Leissing, Franklin, Mass.
Application March 29, 1939, Serial No. 83,910
Term of patent 7 years



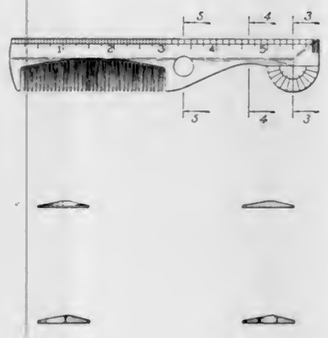
The ornamental design for a folding bench or similar article of furniture, as shown.

116,038
DESIGN FOR A GOGGLE
Eugene J. Lux, New York, N. Y., assignor to Columbia Protektosite Co., Inc., Carlstadt, N. J., a corporation of New Jersey
Application June 16, 1939, Serial No. 85,518
Term of patent 7 years



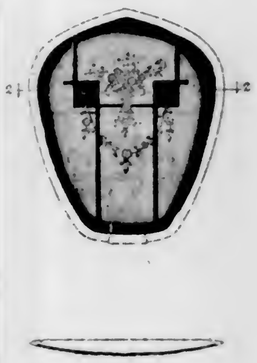
The ornamental design for a goggle, substantially as shown and described.

116,039
DESIGN FOR A COMB
Paul S. Madsen, Bethany, Conn., assignor to The Seamless Rubber Company, Incorporated, New Haven, Conn., a corporation of Massachusetts
Application May 31, 1939, Serial No. 85,276
Term of patent 7 years



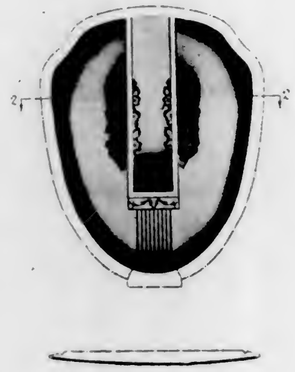
The ornamental design for a comb, substantially as shown.

116,040
DESIGN FOR A HEAD FOR A HAND MIRROR OR SIMILAR ARTICLE
Leo Marder, Brooklyn, N. Y.
Application May 24, 1938, Serial No. 77,359
Term of patent 3½ years



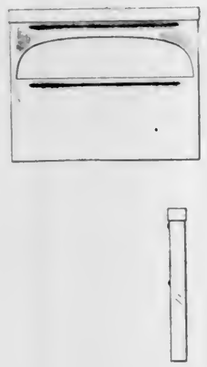
The ornamental design for a head for a hand mirror or similar article, substantially as shown and described.

116,041
DESIGN FOR A HEAD FOR A HAND MIRROR OR SIMILAR ARTICLE
Leo Marder, Brooklyn, N. Y.
Application May 24, 1938, Serial No. 77,360
Term of patent 3½ years



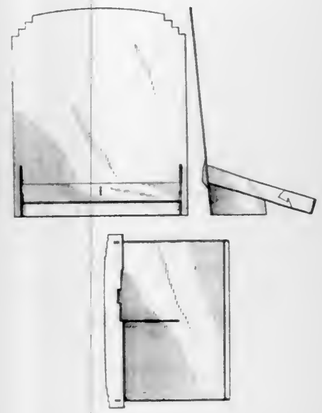
The ornamental design for a head for a hand mirror or similar article, substantially as shown and described.

116,042
DESIGN FOR A DISPENSING CABINET FOR TOILET SEAT COVERS
John E. Maurer, Pomona, Calif.
Application November 12, 1938, Serial No. 81,062
Term of patent 14 years



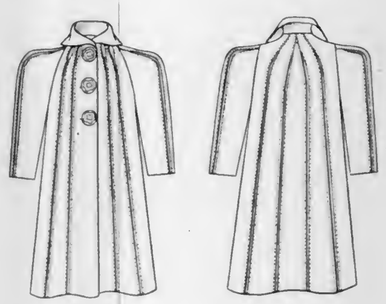
The ornamental design for a dispensing cabinet for toilet seat covers, substantially as shown.

116,043
DESIGN FOR A DISPLAY STAND
Everett J. McGarry, Chicago, Ill.
Application May 31, 1939, Serial No. 85,260
Term of patent 14 years



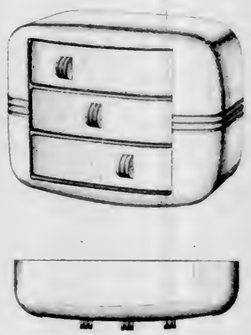
The ornamental design for a display stand, as shown.

116,044
DESIGN FOR A COAT
Morris D. Metzger, New York, N. Y.
Application June 16, 1939, Serial No. 85,512
Term of patent 3½ years



The ornamental design for a coat, substantially as shown and described.

116,045
DESIGN FOR A HEATER CASING
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application March 18, 1938, Serial No. 75,915
Term of patent 3½ years



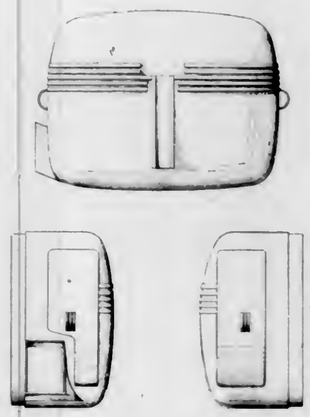
The ornamental design for a heater casing, as shown and described.

116,046
DESIGN FOR A HEATER
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application June 28, 1939, Serial No. 85,738
Term of patent 7 years



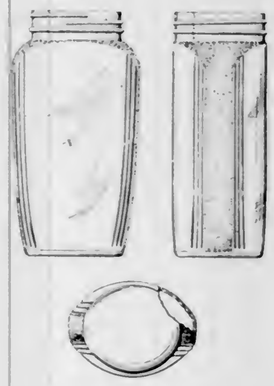
The ornamental design for a heater, as shown.

116,047
DESIGN FOR A HEATER
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application June 28, 1939, Serial No. 85,739
Term of patent 7 years



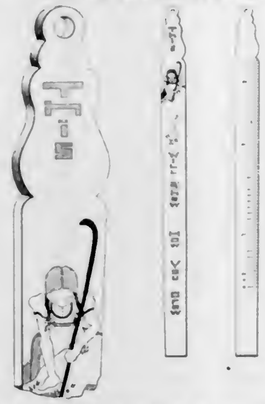
The ornamental design for a heater, as shown.

116,048
DESIGN FOR A JAR
Olbert C. Noble, Washington, Pa., assignor to Tygart Valley Glass Company, Washington, Pa., a corporation of West Virginia
Application June 9, 1939, Serial No. 85,414
Term of patent 7 years



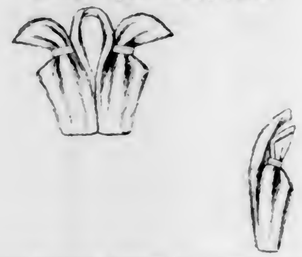
The ornamental design for a jar, as shown.

116,049
DESIGN FOR A MEASURING DEVICE
Dorothy-Ann Marie Noth, Grosse Pointe Farms, Mich.
Application April 26, 1939, Serial No. 84,576
Term of patent 14 years



The ornamental design for a measuring device, substantially as shown.

116,050
DESIGN FOR A FUR COLLAR
Albert Rauch, New York, N. Y.
Application June 22, 1939, Serial No. 85,616
Term of patent 3½ years



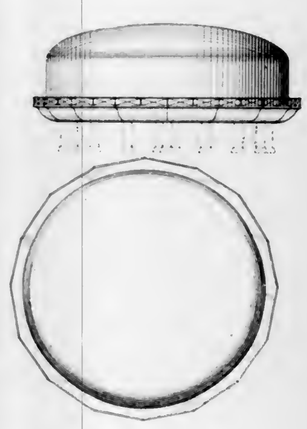
The ornamental design for a fur collar, substantially as shown and described.

116,051
DESIGN FOR A FUR COLLAR
Albert Rauch, New York, N. Y.
Application June 22, 1939, Serial No. 85,617
Term of patent 3½ years



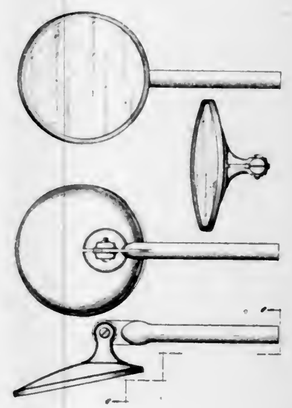
The ornamental design for a fur collar substantially as shown and described.

116,052
DESIGN FOR AN ELEVATED TANK
John August Rau, Phoenix, Ariz., assignor to Allison Steel Manufacturing Company, Phoenix, Ariz., a corporation of Arizona
Application March 17, 1939, Serial No. 83,640
Term of patent 14 years



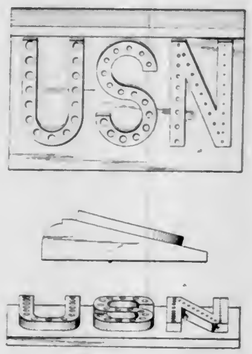
The ornamental design for an elevated tank, substantially as shown and described.

116,053
DESIGN FOR A COMBINED REAR VIEW MIRROR AND SUPPORT THEREFOR
Oliver C. Ritz-Woller, Chicago, Ill.
Application November 14, 1938, Serial No. 81,078
Term of patent 14 years



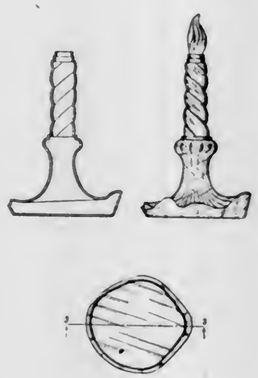
The ornamental design for a combined rear view mirror and support therefor, substantially as shown.

116,054
DESIGN FOR A DRILL HOLDER
William P. Ross, Lakewood, Ohio, assignor to The Standard Tool Co., Cleveland, Ohio, a corporation of Ohio
Application April 13, 1939, Serial No. 84,265
Term of patent 14 years



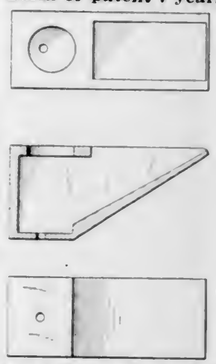
The ornamental design for a drill holder, substantially as shown.

116,055
DESIGN FOR A PERFUME BOTTLE
Elsa Schiaparelli, Paris, France, assignor to Societe Des Parfums Schiaparelli (Societe Anonyme), Paris, France, a corporation of France
Application June 21, 1939, Serial No. 85,604
Term of patent 14 years



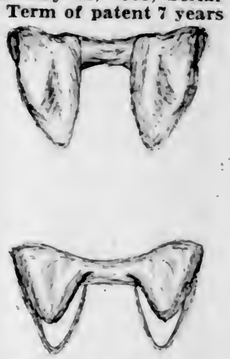
The ornamental design for a perfume bottle, as shown and described.

116,056
DESIGN FOR A FLOWER HOLDER
Paul T. Shirk, Lebanon, Pa.
Application May 23, 1939, Serial No. 85,169
Term of patent 7 years



The ornamental design for a flower holder, as shown.

116,057
DESIGN FOR A FUR COLLAR
Jacob A. Silverman, Brooklyn, N. Y.
Application May 24, 1939, Serial No. 85,179
Term of patent 7 years



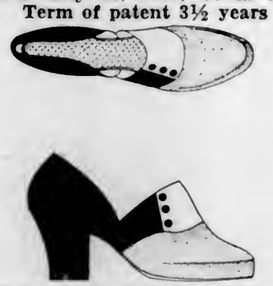
The ornamental design for a fur collar, substantially as shown.

116,058
DESIGN FOR A SLIPPER
Charles J. Simonetti, New York, N. Y.
Application May 26, 1939, Serial No. 85,208
Term of patent 3½ years



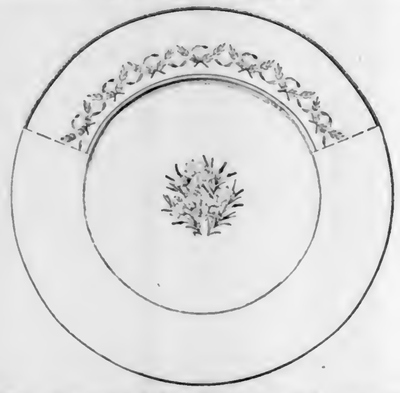
The ornamental design for a slipper, substantially as shown.

116,059
DESIGN FOR A SLIPPER
Charles J. Simonetti, New York, N. Y.
Application May 26, 1939, Serial No. 85,209
Term of patent 3½ years



The ornamental design for a slipper, substantially as shown.

116,060
DESIGN FOR A PLATE OR SIMILAR ARTICLE
Victor Skellern, Fenton, Stoke-on-Trent, England, assignor to Josiah Wedgwood & Sons, Inc. of America, New York, N. Y., a corporation of New York
Application June 22, 1939, Serial No. 85,634
Term of patent 7 years



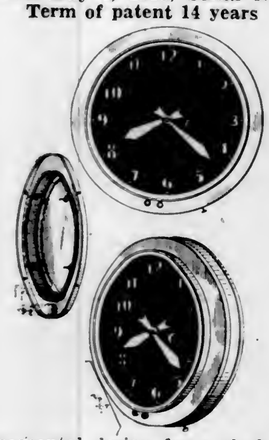
The ornamental design for a plate or similar article, as shown and described.

116,061
DESIGN FOR A COAT
Murray Smithken, New York, N. Y.
Application June 28, 1939, Serial No. 85,737
Term of patent 3½ years



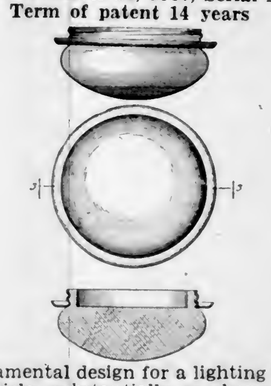
The ornamental design for a coat, substantially as shown.

116,062
DESIGN FOR A CLOCK OR SIMILAR ARTICLE
Max Stern, Brooklyn, N. Y.
Application May 4, 1938, Serial No. 76,978
Term of patent 14 years



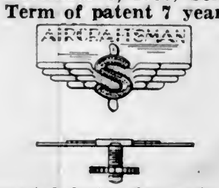
The ornamental design for a clock or similar article, substantially as shown and described.

116,063
DESIGN FOR A LIGHTING FIXTURE OR SIMILAR ARTICLE
Lemuel L. Stewart, Elkhart, Ind., assignor to The Adlake Company, a corporation of Illinois
Application November 24, 1937, Serial No. 73,179
Term of patent 14 years



The ornamental design for a lighting fixture or similar article, substantially as shown and described.

116,064
DESIGN FOR A PIN
Jack B. Stinson, Jackson Heights, N. Y.
Application December 8, 1938, Serial No. 81,663
Term of patent 7 years



The ornamental design for a pin, as shown.

116,065
DESIGN FOR A PIN
Jack B. Stinson, Jackson Heights, N. Y.
Application December 8, 1938, Serial No. 81,664
Term of patent 7 years



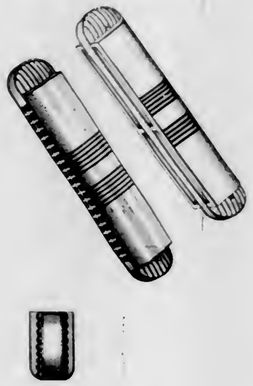
The ornamental design for a pin, as shown.

116,066
DESIGN FOR A COMBINED STOPPER AND FINGERNAIL POLISH BRUSH
Madeline C. Twomey, Brookline, Mass.
Application December 27, 1938, Serial No. 82,008
Term of patent 3½ years



The ornamental design for a combined stopper and fingernail polish brush, substantially as shown.

116,067
DESIGN FOR A HARMONICA
John Vassos, New Canaan, Conn., assignor to M. Hohner, Inc., New York, N. Y., a corporation of New York
Application April 1, 1939, Serial No. 83,989
Term of patent 14 years



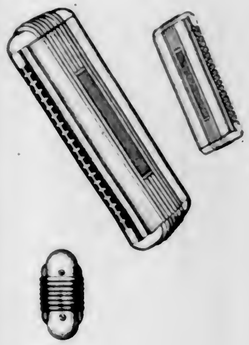
The ornamental design for a harmonica, as shown.

116,068
DESIGN FOR A HARMONICA
John Vassos, New Canaan, Conn., assignor to M. Hohner, Inc., New York, N. Y., a corporation of New York
Application April 1, 1939, Serial No. 83,990
Term of patent 14 years



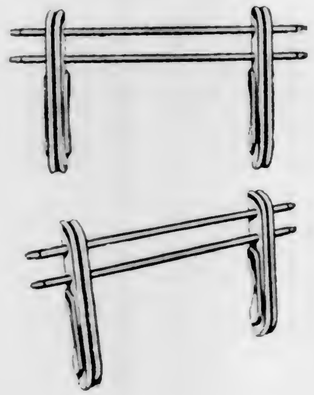
The ornamental design for a harmonica, as shown.

116,069
DESIGN FOR A HARMONICA
John Vassos, New Canaan, Conn., assignor to M. Hohner, Inc., New York, N. Y., a corporation of New York
Application April 1, 1939, Serial No. 83,991
Term of patent 14 years



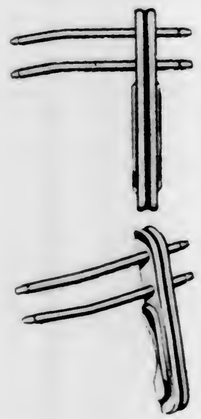
The ornamental design for a harmonica, as shown.

116,070
DESIGN FOR AN AUTOMOBILE BUMPER GUARD
Mercer D. Walklet, Akron, Ohio, assignor to American Chain & Cable Company, Inc., a corporation of New York
Application April 12, 1939, Serial No. 84,237
Term of patent 7 years



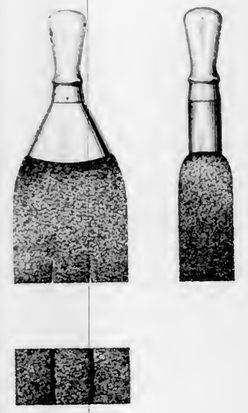
The ornamental design for an automobile bumper guard, as shown.

116,071
DESIGN FOR AN AUTOMOBILE BUMPER GUARD
Mercer D. Walklet, Akron, Ohio, assignor to American Chain & Cable Company, Inc., a corporation of New York
Application April 12, 1939, Serial No. 84,238
Term of patent 7 years



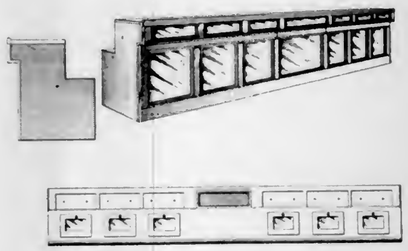
The ornamental design for an automobile bumper guard, as shown.

116,072
DESIGN FOR A BRUSH OR SIMILAR ARTICLE
Joseph Weil, Brooklyn, N. Y.
Application December 21, 1938, Serial No. 81,930
Term of patent 7 years



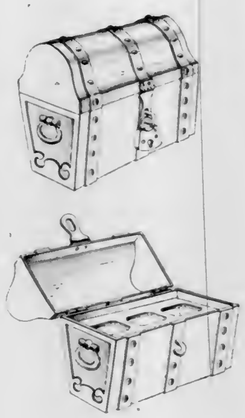
The ornamental design for a brush or similar article, substantially as shown.

116,073
DESIGN FOR A TRANSPARENT BAR
Daniel P. Whelan, Merrick, N. Y.
Application October 28, 1938, Serial No. 80,729
Term of patent 14 years



The ornamental design for a transparent bar, as shown.

116,074
DESIGN FOR A CONTAINER FOR PERFUME BOTTLES
Henry Worth and Samuel Tom Phillips, New York, N. Y.
Application February 9, 1939, Serial No. 82,896
Term of patent 7 years



The ornamental design for a container for perfume bottles, as shown.

116,075
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application July 10, 1939, Serial No. 85,931
Term of patent 3½ years



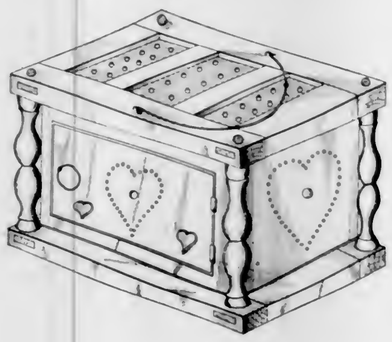
The ornamental design for a coat, substantially as shown.

116,076
DESIGN FOR A COAT
Harry Zuckerman, New York, N. Y.
Application July 10, 1939, Serial No. 85,932
Term of patent 3½ years



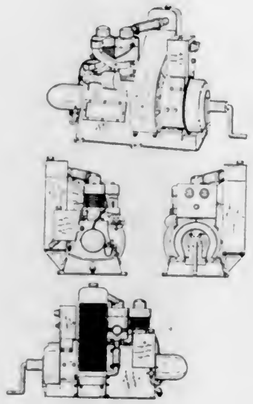
The ornamental design for a coat, substantially as shown.

116,077
DESIGN FOR A RADIO CABINET OR SIMILAR ARTICLE
James R. Jackson, Alpine, N. J.
Application May 11, 1939, Serial No. 84,930
Term of patent 7 years



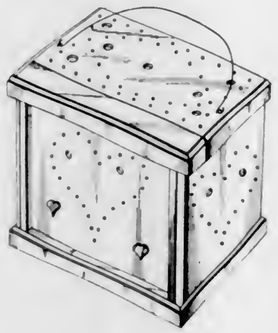
The ornamental design for a radio cabinet or similar article, substantially as shown and described.

116,078
DESIGN FOR AN ENGINE DRIVEN ELECTRIC GENERATOR UNIT
Joseph H. Jacobs, Minneapolis, Minn.
Application April 6, 1939, Serial No. 84,099
Term of patent 7 years



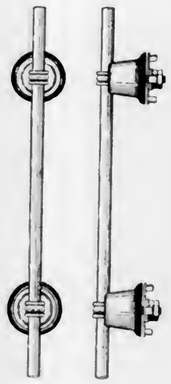
The ornamental design for an engine driven electric generator unit, as shown.

116,079
DESIGN FOR A RADIO CABINET OR SIMILAR ARTICLE
James R. Jackson, Alpine, N. J.
Application May 11, 1939, Serial No. 84,931
Term of patent 7 years



The ornamental design for a radio cabinet or similar article, substantially as shown and described.

116,080
DESIGN FOR A RADIO ANTENNA OR THE LIKE
Arthur T. Mace, East Cleveland, Ohio, assignor to The Radiart Corporation, Cleveland, Ohio, a corporation of Ohio
Application April 12, 1939, Serial No. 84,245
Term of patent 7 years



The ornamental design for a radio antenna or the like, as shown.

116,081
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,887
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,082
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,888
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,083
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,889
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,084
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,891
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,085
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,892
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,086
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,896
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,087
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,897
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,088
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,898
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

116,089
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,899
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

116,090
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,900
Term of patent 3½ years



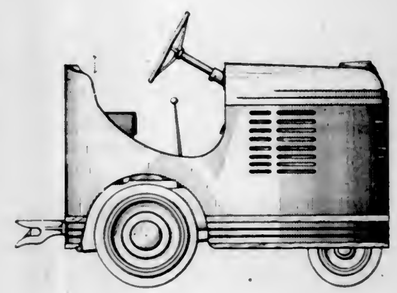
The ornamental design for a brooch or similar article, substantially as shown.

116,091
DESIGN FOR A BRACELET
Alfred Philippe, New New York, N. Y.
Application July 7, 1939, Serial No. 85,903
Term of patent 3½ years



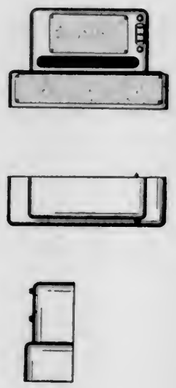
The ornamental design for a bracelet, substantially as shown.

116,092
DESIGN FOR AN INDUSTRIAL TRACTOR
Carl W. Sundberg and Montgomery Ferar, Detroit, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application April 27, 1939, Serial No. 84,598
Term of patent 14 years



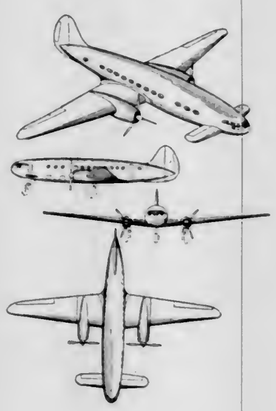
The ornamental design for an industrial tractor, as shown.

116,093
DESIGN FOR A COMBINED RADIO AND ADVERTISING DISPLAY
Leon F. Van Schuck, New Orleans, La.
Application March 8, 1939, Serial No. 83,433
Term of patent 7 years



The ornamental design for a combined radio and advertising display, substantially as shown.

116,094
DESIGN FOR AN AIRPLANE
Clarence L. Johnson, Burbank, Calif., assignor to Lockheed Aircraft Corporation, a corporation of California
Application November 10, 1938, Serial No. 81,000
Term of patent 14 years



The ornamental design for an airplane, substantially as shown.

116,095
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y.
Application July 1, 1939, Serial No. 85,802
Term of patent 3½ years



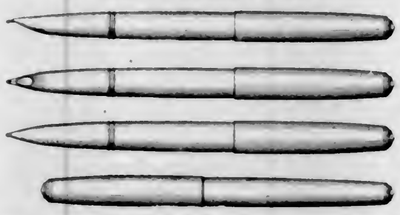
The ornamental design for a brooch or similar article, substantially as shown.

116,096
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y.
Application July 1, 1939, Serial No. 85,803
Term of patent 3½ years



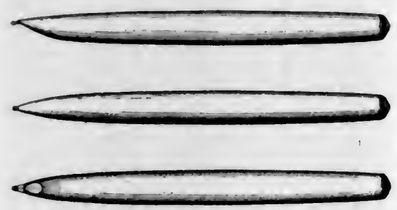
The ornamental design for a brooch or similar article, substantially as shown.

116,097
DESIGN FOR A FOUNTAIN PEN
Kenneth S. Parker and Marlin S. Baker, Janesville, Wis.
Application May 6, 1939, Serial No. 84,843
Term of patent 14 years



The ornamental design for a fountain pen, substantially as shown and described.

116,098
DESIGN FOR A FOUNTAIN PEN BARREL
Kenneth S. Parker and Marlin S. Baker, Janesville, Wis.
Application May 6, 1939, Serial No. 84,844
Term of patent 14 years



The ornamental design for a fountain pen barrel, substantially as shown.

116,099
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,885
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,100
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,886
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,101
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application June 19, 1939, Serial No. 85,554
Term of patent 3½ years



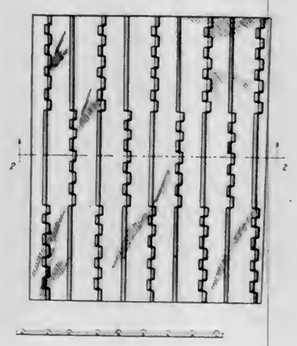
The ornamental design for a textile fabric or similar article, as shown.

116,102
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application June 17, 1939, Serial No. 85,542
Term of patent 3½ years



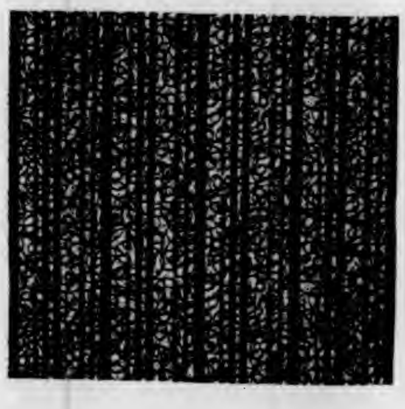
The ornamental design for a textile fabric or similar article, as shown and described.

116,103
DESIGN FOR A TUCKED FABRIC
Benjamin Beidner, New York, N. Y.
Application June 1, 1939, Serial No. 85,295
Term of patent 3½ years



The ornamental design for a tucked fabric, substantially as shown and described.

116,104
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Marcel Christen, New York, N. Y., assignor to Ciro Fabrics, Inc., New York, N. Y.
Application April 1, 1939, Serial No. 83,981
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

116,105
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,890
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,106
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,893
Term of patent 3½ years



The ornamental design for a pin clip, substantially as shown.

116,107
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,894
Term of patent 3½ years



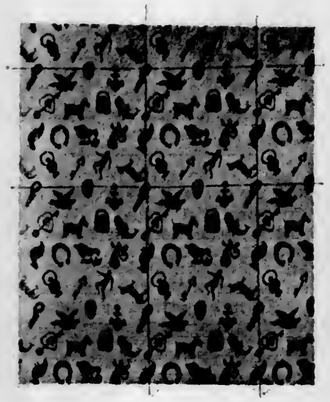
The ornamental design for a pin clip, substantially as shown.

116,108
DESIGN FOR A PILLOWCASE
Therese Rembrecht, New York, N. Y.
Application June 7, 1939, Serial No. 85,384
Term of patent 3½ years



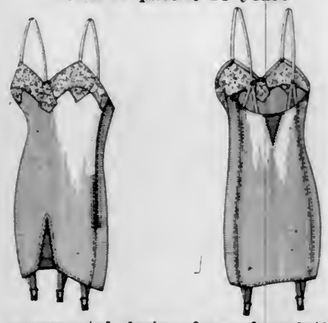
The ornamental design for a pillowcase, as shown.

116,109
DESIGN FOR A TEXTILE FABRIC
Abe Tillman, New York, N. Y.
Application June 27, 1939, Serial No. 85,720
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

116,110
DESIGN FOR A FOUNDATION GARMENT
Hildegard Wipperman, Chicago, Ill., assignor to The H. W. Gossard Co., Chicago, Ill., a corporation of Illinois
Application February 4, 1938, Serial No. 74,854
Term of patent 14 years



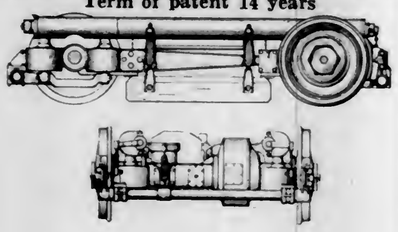
The ornamental design for a foundation garment, substantially as shown and described.

116,111
DESIGN FOR A DRESS
Helen Berry, New York, N. Y.
Application July 21, 1939, Serial No. 86,144
Term of patent 3½ years



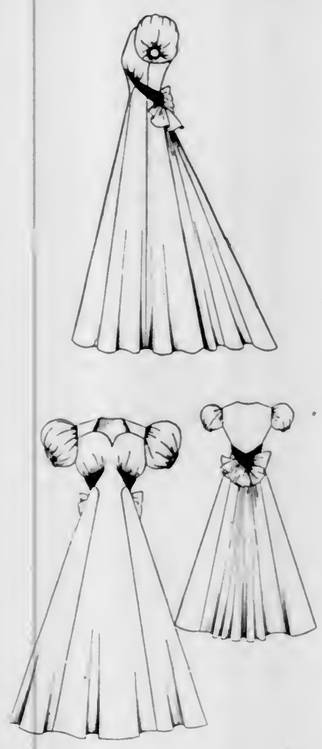
The ornamental design for a dress, substantially as shown and described.

116,112
DESIGN FOR A RAIL CAR TRUCK
Robert J. Burrows and Alfred O. Williams, Battle Creek, Mich., assignors to Clark Equipment Company, Buchanan, Mich., a corporation of Michigan
Application January 24, 1938, Serial No. 74,505
Term of patent 14 years



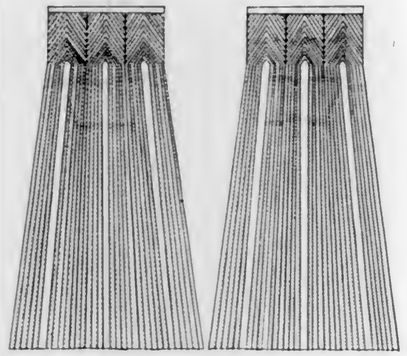
The ornamental design for a rail car truck, as shown.

116,113
DESIGN FOR A DRESS
Elizabeth Cutler, New York, N. Y.
Application July 17, 1939, Serial No. 86,045
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,114
DESIGN FOR A SKIRT OR SIMILAR ARTICLE
Samuel H. Geffner, New York, N. Y.
Application July 21, 1939, Serial No. 86,145
Term of patent 3½ years



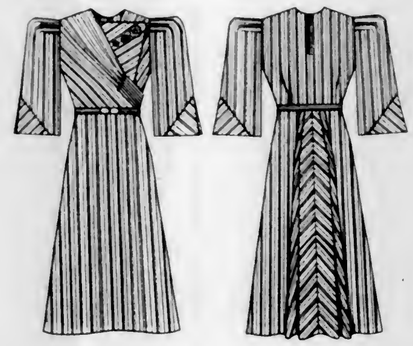
The ornamental design for a skirt or similar article, substantially as shown.

116,115
DESIGN FOR A DRESS
Abraham Geller, New York, N. Y.
Application July 21, 1939, Serial No. 86,142
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,116
DESIGN FOR A DRESS
Sidney J. Poster, New York, N. Y.
Application July 17, 1939, Serial No. 86,047
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,117
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application July 19, 1939, Serial No. 86,066
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,118
DESIGN FOR A DRESS
Philip Schlessel, New York, N. Y.
Application July 21, 1939, Serial No. 86,143
Term of patent 3½ years



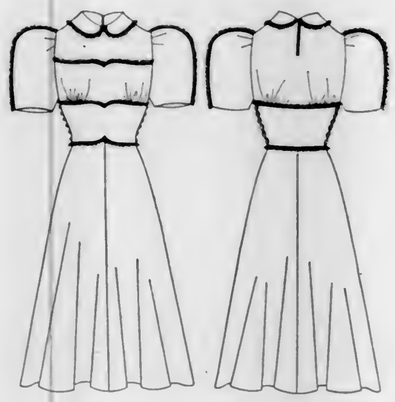
The ornamental design for a dress, substantially as shown.

116,119
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application July 14, 1939, Serial No. 86,011
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

116,120
DESIGN FOR A DRESS
Ruthe E. Knapp, New York, N. Y.
Application July 15, 1939, Serial No. 86,033
Term of patent 3½ years



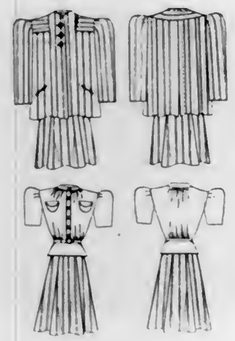
The ornamental design for a dress, substantially as shown.

116,121
DESIGN FOR A DRESS
Ruthe E. Knapp, New York, N. Y.
Application July 15, 1939, Serial No. 86,034
Term of patent 3½ years



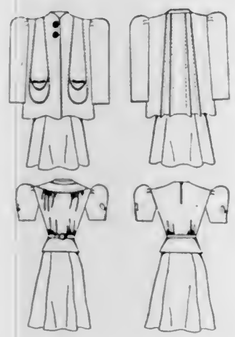
The ornamental design for a dress, substantially as shown and described.

116,122
DESIGN FOR A DRESS ENSEMBLE
Samuel Kuznetz, New York, N. Y.
Application July 12, 1939, Serial No. 85,953
Term of patent 3½ years



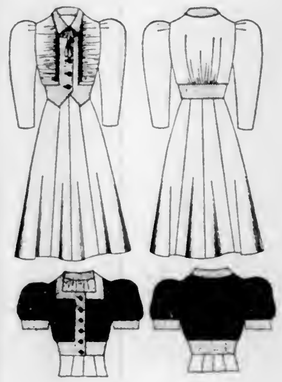
The ornamental design for a dress ensemble, substantially as shown.

116,123
DESIGN FOR A DRESS ENSEMBLE
Samuel Kuznetz, New York, N. Y.
Application July 12, 1939, Serial No. 85,954
Term of patent 3½ years



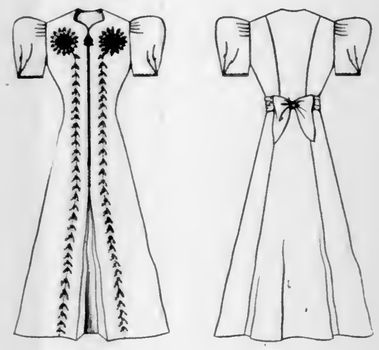
The ornamental design for a dress ensemble, substantially as shown.

116,124
DESIGN FOR A DRESS ENSEMBLE
Syd Novak, Chicago, Ill.
Application July 15, 1939, Serial No. 86,032
Term of patent 3½ years



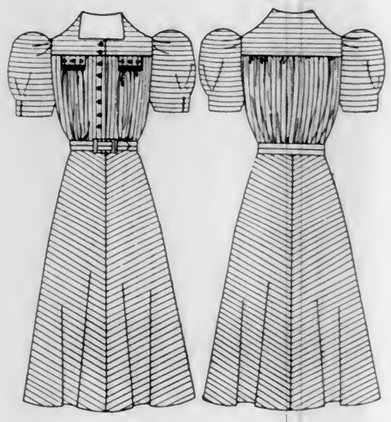
The ornamental design for a dress ensemble, substantially as shown.

116,125
DESIGN FOR A DRESS
Albert Ruchman, New York, N. Y.
Application July 17, 1939, Serial No. 86,046
Term of patent 3½ years



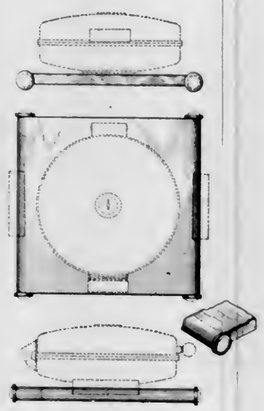
The ornamental design for a dress, substantially as shown.

116,126
DESIGN FOR A DRESS
Benjamin Shapiro, New York, N. Y.
Application July 10, 1939, Serial No. 85,930
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,127
DESIGN FOR A WAFFLE IRON OR SIMILAR ARTICLE
Edward S. Preston, Hinsdale, Ill., assignor to Chicago Electric Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application February 9, 1938, Serial No. 74,999
Term of patent 7 years



The ornamental design for a waffle iron or similar article, substantially as shown and described.

116,128
DESIGN FOR A TEXTILE FABRIC
Nathan Tillman, New York, N. Y.
Application July 13, 1939, Serial No. 85,993
Term of patent 3½ years



The ornamental design for a textile fabric, substantially as shown and described.

116,129
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application June 19, 1939, Serial No. 85,553
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown.

THE
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CONTENTS

	Page
ISSUE OF AUGUST 15, 1939	511
ADJUDICATED PATENTS	511
DISCLAIMERS	511
NOTICE OF CANCELLATION	511
APPLICATIONS UNDER EXAMINATION	512
DECISIONS OF THE U. S. COURTS—	
Charles J. Koebel and Koebel Diamond Tool Co. v. Coe, Commissioner of Patents	513
Hansgirg v. Kemmer	514
In re Walter	516
Gilman v. Klein and Sheehan	517
Georgiev v. Fruth	519
In re Diederichs	521
PATENT SUITS	522
CHANGES IN CLASSIFICATION	523
TRADE-MARKS PUBLISHED (174 APPLICATIONS)	525
TRADE-MARK REGISTRATIONS GRANTED	547
TRADE-MARK REGISTRATIONS RENEWED	552
LABELS	553
PRINTS	554
REISSUES	555
PATENTS GRANTED	556
DESIGNS	738

August 15, 1939

Trade-Marks	140	No. 370,022 to No.	370,161 inclusive.
T. M. Renewals	32		
Labels	30	No. 53,372 to No.	53,401, inclusive.
Prints	6	No. 17,533 to No.	17,538, inclusive.
Reissues	2	No. 21,175 to No.	21,176, inclusive.
Patents	785	No. 2,169,208 to No.	2,169,992, inclusive.
Designs	81	No. 116,130 to No.	116,210, inclusive.
Total	1,076		

Adjudicated Patents

(C. C. A. N. Y.) Hufford patent, No. 1,537,944, for governor for internal combustion engines, claims 16 and 20 *Held* valid and infringed. *Handy Governor Corporation* v. *General Carburetor Sales Co.*, 104 F.(2d) 295.

(C. C. A. Ohio.) Lunati patent, No. 1,552,326, for lifting device for motor vehicles, claims 3 and 4 *Held* not infringed. *Lunati* v. *Barrett*, 104 F.(2d) 313.

(C. C. A. N. Y.) Handy & Bull patent, No. 1,584,929, for governor, claims 3 and 16 *Held* infringed. *Handy Governor Corporation* v. *General Carburetor Sales Co.*, 104 F.(2d) 295.

(D. C. Pa.) McBerty patent, No. 1,832,719, for combined electric welder and flash stripper, claims 1, 4, 12, and 13 *Held* valid and infringed. *Federal Machine & Welder Co.* v. *Mesta Mach. Co.*, 27 F. Supp. 747.

(C. C. A. Ohio.) Liner patent, No. 1,835,505, for synchronous clock motor, claims 9, 16, and 17 *Held* invalid. *Hammond Clock Co.* v. *Electric Auto-Lite Co.*, 104 F.(2d) 288.

(C. C. A. N. Y.) Bull patent, No. 2,048,423, for stabilizer for suction governors, claim 17 *Held* infringed. *Handy Governor Corporation* v. *General Carburetor Sales Co.*, 104 F.(2d) 295.

(D. C. Iowa.) Grote design patent, No. 91,192, for design for a container, *Held* not infringed. *Camille, Inc.*, v. *F. W. Fitch Co.*, 27 F. Supp. 752.

Disclaimers

1,752,983.—*Walter F. Herold*, Upper Montclair, N. J. CASTER. Patent dated April 1, 1930. Disclaimer filed July 22, 1939, by the assignee, *The Bassick Company*.

Hereby enters this disclaimer to claims 3 and 4 in said specification.

2,119,430.—*Fred G. Garner* and *George A. Auer*, Chicago, Ill. DISPLAY DEVICE. Patent dated May 31, 1938. Disclaimer filed July 21, 1939, by the assignee, *Wagner Sign Service, Inc.*

Hereby enters this disclaimer to claims 9 and 12 of said specification.

Notice of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., July 15, 1939.*

Hercules Petroleum Company, its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Dryer, Clark & Dryer Oil Company, 701 West Noble Avenue, Oklahoma City, Okla., to effect the cancellation of trade-mark registration No. 154,969, issued May 16, 1922, to Hercules Petroleum Company, American Exchange National Bank Building, Dallas, Tex., and a notice of such proceeding sent by registered mail to said Hercules Petroleum Company at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Hercules Petroleum Company, its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Condition of Applications Under Examination at close of business July 29, 1939

Room No.	(Total number of applications awaiting action, excluding Trade-Mark Division, 45,869; Trade-Mark Division, 1,482. Oldest new case, Jan. 7, 1939; oldest amended, Jan. 3, 1939.) DIVISIONS, EXAMINERS, AND SUBJECTS OF INVENTIONS	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Mar. 1	Mar. 3	706
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Mar. 6	Mar. 14	723
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	May 31	May 31	420
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Apr. 22	Apr. 18	477
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	May 1	May 2	486
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Feb. 20	Mar. 9	973
5725	7. JARBOE, C. G., Optics; Photography	Mar. 21	Apr. 5	938
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Feb. 25	Jan. 16	1192
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 20	Mar. 27	736
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Apr. 7	Apr. 13	632
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Apr. 1	Apr. 12	475
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Feb. 14	Jan. 22	578
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning, Boring and Drilling.	Feb. 13	Feb. 11	765
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	May 19	May 15	452
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 10	Mar. 10	1220
5716	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 23	Mar. 4	833
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Mar. 25	Mar. 22	593
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Feb. 7	Feb. 20	576
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	May 6	Apr. 11	417
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Apr. 5	Apr. 4	427
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	Apr. 13	Apr. 22	510
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Feb. 21	Feb. 22	961
7624	23. BUTTNER, W. J., Registers (part)	Jan. 31	Jan. 19	307
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 13	Feb. 10	1248
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	Apr. 27	Apr. 27	495
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Mar. 11	Mar. 7	630
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Jan. 7	Jan. 3	1260
4028	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Apr. 1	Mar. 22	460
5092	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Mar. 6	Mar. 20	822
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 1	Mar. 1	851
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	Apr. 24	Apr. 25	657
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	Apr. 13	Apr. 12	394
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	May 3	May 5	861
6025	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	Apr. 25	Apr. 29	345
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 27	Mar. 24	649
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Feb. 17	Feb. 24	628
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 12	Apr. 15	669
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	Jan. 7	Jan. 18	894
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 11	Apr. 15	627
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Feb. 20	Feb. 20	1637
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Mar. 24	Mar. 13	387
5882	42. CUTTING, H. O., Electric Signaling	Jan. 18	Jan. 23	643
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Mar. 21	Apr. 1	595
4087 B	44. HARVEY, L. P., Refrigeration	Mar. 6	Mar. 3	719
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Mar. 28	Mar. 18	642
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Mar. 3	Mar. 3	781
6082	47. LOWE, E. R., Clutches; Brakes	Mar. 25	Apr. 4	406
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 21	Apr. 19	497
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Feb. 6	Feb. 2	1100
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Feb. 9	Feb. 16	1326
5628	51. BACKUS, C. D., Radiant Energy (part)	May 3	May 3	716
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Mar. 22	Mar. 27	766
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Mar. 29	Apr. 11	511
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Apr. 10	Apr. 6	370
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Jan. 31	Jan. 31	653
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Mar. 1	Mar. 1	1187
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Mar. 17	Apr. 26	436
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Apr. 10	Apr. 15	436
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Apr. 3	Apr. 3	610
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Mar. 29	Mar. 29	431
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Mar. 7	Mar. 8	525
5621	62. PUGH, E. C., Games; Geometrical Instruments	May 5	May 4	536
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Feb. 8	Feb. 6	835
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Apr. 7	Apr. 6	844
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Mar. 6	Mar. 4	619
2099 B	TRADE-MARKS, LABELS, AND PRINTS: F. A. RICHMOND {Trade-Marks	June 10	July 10	1383
	{Labels and Prints	July 19	July 25	99
2605	DESIGNS: H. H. KALUPY	June 23	June 27	774

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Appeals for the District of Columbia

CHARLES J. KOEBEL AND KOEBEL DIAMOND TOOL CO.
v.
COE, COMMISSIONER OF PATENTS
No. 7,225. Decided June 12, 1939

PATENTABILITY—ALLOY SETTING FOR DIAMONDS—FUNCTIONAL CLAIM.

A claim for a setting for diamonds consisting of a base metal alloy, the principal ingredients of which are molybdenum, copper and cobalt so proportioned as to have certain qualities recited in the claim *Held* unpatentable as not definite. "It uses words 'which describe the function * * * to the exclusion of any structural definition, and thus falls within the condemnation of the doctrine that a patentee may not broaden his product claims by describing the product in terms of function.' *General Electric Company* v. *Wabash Appliance Corporation*, 304 U. S. 364, 371."

APPEAL from the District Court of the United States for the District of Columbia. Affirmed.

Mr. Axel V. Beeken for Charles J. Koebel and Koebel Diamond Tool Co.

Mr. R. F. Whitehead for the Commissioner of Patents.

Before GRONER, Chief Justice, and EDGERTON and VINSON, Associate Justices

EDGERTON, *A. J.:*

This is an appeal from a decree dismissing a bill under R. S. § 4915 (35 U. S. C. § 63) to obtain a patent on a setting for diamonds for industrial uses such as cutting, drilling and grinding. The invention has had an immense success. The disputed claim is:

"7. As a new article of manufacture, a setting for diamonds consisting of a base metal alloy the principal ingredients of which are molybdenum, copper and cobalt so proportioned as to be capable of being sintered at a temperature below that of the critical point at which the desirable qualities of the diamond are adversely affected, said alloy when so sintered having the property of wetting the diamonds coupled with a lack of avidity for the carbon thereof and, when thereafter cooled, of closely adhering to it."

The specification contains the following:

"By way of example, but not of limitation, the following formulae of an alloy, successfully used are given, the percentages stated being approximate . . . ;

"Example No. 1: molybdenum, 26 per cent; cobalt, 46 per cent; copper, 27.75 per cent; and iron, 00.25 per cent—100 per cent.

"Example No. 2: molybdenum, 40 per cent; cobalt, 20 per cent; and copper, 40 per cent—100 per cent."

The Patent Office, while it rejected claim 7, allowed the following claims, which correspond closely to the two foregoing examples:

3. As a new article of manufacture, a setting for diamonds composed of an alloy including molybdenum, approximately 26 per cent, copper approximately 27 per cent and cobalt approximately 46 per cent.

"4. As a new article of manufacture, a setting for diamonds composed of an alloy including molybdenum approximately 40 per cent, copper approximately 40 per cent, and cobalt approximately 20 per cent."

The district court dismissed the bill, on the grounds that claim 7 is broader than the invention and does not clearly define the invention.

A "base metal alloy the principal ingredients of which are molybdenum, copper and cobalt" might contain say 10 per cent, or any smaller proportion, of any other base metal, or of any combination of other base metals. Even if the only ingredients were the three named metals, they might be present in an infinite variety of proportions. Appellants do not claim all these myriads of alloys, but they do claim all of them that will function in a designated way; and, with the exception of the two examples which have been allowed as claims 3 and 4, appellants do not disclose or even suggest which alloys will function in that way. Either they do not know, or they prefer to keep the knowledge to themselves. They cannot patent what they do not disclose. Claim 7 defines nothing. It uses words—

"which describe the function . . . to the exclusion of any structural definition, and thus falls within the condemnation of the doctrine that a patentee may not broaden his product claims by describing the product in terms of function." *General Electric Company* v. *Wabash Appliance Corporation*, 304 U. S. 364, 371, 58 S. Ct. 899, 82 L. ed. 1402.

In that case the Supreme Court held the following claim so indefinite as to be invalid on its face:

"A filament for electric incandescent lamps or other devices, composed substantially of tungsten and made up mainly of a number of comparatively large grains of such size and contour as to prevent substantial sagging and offsetting during a normal or commercially useful life for such a lamp or other device." (p. 368).

The rejected claim in the present case seems closely analogous, and quite as indefinite. Moreover, the General Electric case was an infringement suit, and the court held, in effect, that the claim there in issue was so clearly indefinite as to overcome the presumption[1] that the Patent Office was right in granting a patent; while here the question is only whether the claim may reasonably be thought indefinite, so as to sustain the presumption[2] that the Patent Office and the district court were right in denying a patent. In *Holland Furniture Company* v. *Perkins Glue Company*, another infringement suit, the Supreme Court held that—

"An inventor may not describe a particular starch glue which will perform the function of animal glue and then claim all starch glues which have those functions."

277 U. S. 245, 256, 372 O. G. 517, 48 S. Ct. 474, 72 L. ed. 868.

In both *Gasoline Products Company, Inc.*, v. *Coe*, 66 App. D. C. 333, 87 F.(2d) 550, 478 O. G. 3, and *Electrons, Inc., et al.* v. *Coe*, 69 App. D. C. 181, 99 F.(2d) 414, 38 U. S. P. Q. 370 (No. 6957; Aug. 8, 1938), on which appellants rely, the claims had been rejected below solely on the ground that they lacked invention, and the question of invention was the only one which this court discussed. The indefiniteness of the claims was not argued or considered in either case.

Affirmed.

[1] *Radio Corporation of America* v. *Radio Engineering Laboratories, Inc.*, 293 U. S. 1, 7, 8, 55 S. Ct. 928, 70 L. ed. 163.

[2] *Morgan* v. *Daniels*, 153 U. S. 120, 14 S. Ct. 772, 38 L. ed. 657; *Bayer* v. *Rice*, 64 App. D. C. 107, 75 F.(2d) 238; *Dowling* v. *Jones*, 67 F.(2d) 537; *Robertson, Commissioner of Patents* v. *Cooper*, 46 F.(2d) 766; *Austin* v. *Coe*, 63 App. D. C. 94, 69 F.(2d) 832; cf. *Radio Corporation of America* v. *Radio Engineering Laboratories, Inc., supra.*

U. S. Court of Customs and Patent Appeals

HANSGIRG *v.* KEMMER

No. 4,077. Decided February 27, 1939

[102 F.(2d) 212]

1. INTERFERENCE—RIGHT TO MAKE COUNTS—CLAIMS COPIED FROM INADVERTENTLY ISSUED PATENT.

"Where one copies a claim from an inadvertently issued patent it should clearly appear that his application disclosed the invention either expressly or inherently. • • • He may disclose the invention by drawings, by the use of language, or he may disclose it by reciting and teaching such subject matter as will inherently do the thing or possess the quality which is claimed for it. • • • Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient."

2. SAME—PRIORITY.

Evidence reviewed and *Held* that the disclosure of the senior party K does not support the counts of the interference and that priority should have been awarded the junior party H.

APPEAL from Patent Office. Reversed.

Messrs. Brown, Critchlow and *Flick* (*Mr. Jo. Baily Brown* and *Mr. Fulton B. Flick* of counsel) for Hansgirg.

Mr. H. C. Bierman for Kemmer.

BLAND, *J.*:

This is an appeal by the junior party Hansgirg from a decision of the Board of Appeals of the United States Patent Office, affirming that of the Examiner of Interferences awarding priority of invention in two counts of an interference, which counts define an invention relating to a process of producing substantially pure magnesium.

The interference involves Kemmer's application, Serial No. 542,104, filed June 4, 1931, and Hansgirg's patent, No. 2,003,487, issued June 4, 1935, on an application filed February 3, 1933. Both counts were taken from the Hansgirg patent. Since Hansgirg's dates were all subsequent to those of Kemmer, the sole issue raised in the interference related to the right of Kemmer to make claims corresponding to the counts.

The invention as defined by the counts is particularly concerned with a process of producing magnesium which involves the removal of dust from magnesium vapor before it is condensed, the dust removal step being regarded as the novel feature of the invention. It was old in the art, prior to the entrance of either party into the field, to distill magnesium vapor from magnesium powder whether in powdered form or in the form of briquettes, and then to subsequently condense the same into metallic magnesium.

The record shows that the Primary Examiner, when Kemmer attempted to claim the invention of these counts in his said application, ruled that Kemmer's disclosure did not warrant the allowance of the claims. He held that Kemmer's disclosure did not show the sequence of steps required by the claims and that the matter which he inserted in his amended application, which was to afford a basis for said claims, was new matter.

Thereafter, Kemmer filed a motion in another interference between himself and Hansgirg, involving a different application and patent, and sought to add for interference purposes the claims of the Hansgirg patent which are the present counts. The Primary Examiner ruled that Kemmer did not disclose the invention. Upon appeal to the Board of Appeals, the decision of the Primary Examiner, holding that Kemmer could not make the proposed counts, was reversed, one member of the Board dissenting. The present interference was then declared, and on account of the respective dates as is above shown, Hansgirg was ordered to show cause why judgment on the record should not be entered against him. Hansgirg filed answer, which amounted to a motion to dissolve, claiming that Kemmer's application did not disclose the invention. The Examiner of Interferences, in view of the ruling of the Board heretofore referred to, overruled Hansgirg's motion and, on the record, awarded priority to Kemmer. Hansgirg appealed to the Board of Appeals, which was the same Board that had rendered the decision on the appeal from the Primary Examiner in the other interference. It again, by a majority opinion, one member dissenting, held that Kemmer could make the counts and affirmed the action of the Examiner of Interferences in awarding priority to him. Hansgirg then took an appeal to this Court, and the sole question presented is the right of Kemmer to make the claims corresponding to the counts.

Count 2 is similar in all respects to count 1, except that it contains the provision that the heating of the material containing the metallic magnesium in order to liberate the magnesium vapor is done under reduced pressure. For the purpose of this appeal, both counts may be regarded as identical. Count 1 reads as follows:

> 1. The process for producing substantially pure magnesium which comprises heating material containing metallic magnesium, to liberate magnesium vapor therefrom, removing the resulting vapor by a non-oxidizing gas from the heated zone, separating out dust from said vapor, and thereafter passing it into a condensation zone, and cooling it to condensation point.

It will be noticed that method count 1 contains the following five steps:

1. Heating the material containing metallic magnesium.
2. Removing the resulting vapor by a non-oxidizing gas from the heated zone.
3. Separating dust from the vapor.
4. Thereafter passing it into a condensation zone.
5. Cooling it to a condensation point.

Hansgirg argues here that neither in specification nor claims in the Kemmer application under consideration is there any mention of dust or its removal; that Kemmer never attempted to claim the subject matter, which is the heart of the invention involved, until after he had become advised of the Hansgirg disclosure in a Canadian patent; that the third stage of separating dust from vapor is a distinct and separate step from the other steps of the process, which follows the removal of the magnesium vapor from the heated zone, and that the counts must be so construed, if the same is to be regarded as valid, in view of the prior art; that since the counts are taken from the Hansgirg patent, they must be construed in the light of the teachings of the patent and that Hansgirg shows a separate step with a screen for removing the dust interposed between the vaporizing material and the condensation chamber; that in the Kemmer application the dust problem was not considered and no mention of screening the dust from the vapor either in the heating zone or elsewhere is disclosed.

Kemmer relies for disclosure of the subject matter of the counts on the following language in his application:

> In order to obtain highly refined magnesium metal I subject the metal obtained as above described to a distillation operation in a non-oxidizing atmosphere or in a vacuum and condense the vapors of magnesium to pure metal. Similarly the *quickly cooled powder mentioned above either as such or formed into briquets with or without a binder* may be directly subjected to this distillation operation for a more direct recovery of pure metal. [Italics ours.]

Kemmer contends, and a majority of the Board agreed with him, that since he disclosed that his vaporizing heat was applied to the magnesium powder "formed into briquets with or without a binder", the vaporized magnesium in the briquette would find its way through the binder in such a way as to leave the dust behind. The binder of the briquettes is relied upon as supplying the disclosure of the portion of the counts which relates to the separation of the dust from the vapor.

We are not in agreement with the conclusion of the Board in this respect and in deciding the issue involved it will not be necessary for us to discuss the question which Hansgirg seeks to present to the effect that the counts must be given the construction he argues for in order to make them valid, nor will it be necessary for us to consider the question discussed and argued at such great length by both parties as to whether or not the dust separation referred to in the counts must be regarded as occurring outside the heated chamber. We think that the decision of the issue may rest upon a ground concerning which there should be little dispute.

[1] Where one copies a claim from an inadvertently issued patent it should clearly appear that his application disclosed the invention either expressly or inherently. See *McKee* v. *Noonan*, 24 C. C. P. A. (Patents) 784, 86 F.(2d) 986, 1937 C. D. 178; *Lindley* v. *Shepherd*, 58 App. D. C. 31, 24 F.(2d) 606, 370 O. G. 513. He may disclose the invention by drawings, by the use of language, or he may disclose it by reciting and teaching such subject matter as will inherently do the thing or possess the quality which is claimed for it. So it is not enough to say that Kemmer said nothing about dust removal or about a screen which would remove it if the process defined by Kemmer would inherently perform the function in the manner prescribed by the count. Inherency, however, may not be established by probabilities or possibilities. The mere fact that a certain thing may result from a given set of circumstances is not sufficient. See *Parker* v. *Ballantine*, 26 C. C. P. A. (Patents) —, 100 F.(2d) 220 (Patent Appeal No. 4026, decided Jan. 23, 1939); *In re Ball*, 23 C. C. P. A. (Patents) 830, 81 F.(2d) 242, 1936 C. D. 180; *Brand* v. *Thomas*, 25 C. C. P. A. (Patents) 1053, 96 F.(2d) 301, 496 O. G. 561. If, however, the disclosure is sufficient to show that the natural result flowing from the operation as taught would result in the performance of the questioned function, it seems to be well settled that the disclosure should be regarded as sufficient.

Now, when we view Kemmer's disclosure in the light of these principles, does it clearly show that his process inherently separates the dust from the vapor? We think not. Nothing is disclosed in his application that he sought to separate dust from vapor or that it was any part of the problem he was attempting to solve. He was attempting and did show a method of vaporizing magnesium from the magnesium material whether it was in the form of powder or in a briquette, either bound or unbound. There is no contention here, as we understand it, unless it be by inference, that there was any screening or separation of the vapor when vaporized, by heating the unbound powder, nor do we think there is any serious contention that there was any separation of dust from the vapor involved where the unbound briquette was used. It is contended by Kemmer, and found by the Board, that the binding around the briquette acted as a screen through which the vapors passed during the process of vaporizing and that the critical element of the counts was, therefore, disclosed in the meagre sentence relating to the possible use of a bound briquette. Regardless of the question raised by Hansgirg as to the dust screening occurring after leaving the heating chamber, this interpretation of the counts is certainly not the meaning which the patentee gave in his application. In both forms of the invention shown by the drawings in his application he shows a screen in the form of loose, granular material, separate and apart from the material being heated.

Kemmer argues that binders are usually made up of bituminous substances which are porous and that the passage of the vapor through the porous material would screen out the dust. There is no disclosure in Kemmer's application that the binder was to be made of a material of a porous character, or that it would be made of any particular kind of material which would perform the function of screening. It is remotely possible that some kind of screen or binding might be placed around the briquette which would, to some extent, perform the function that Kemmer and the Board now claim for it, but it is not sufficient, under the above-stated, well-settled principles, to say that a binder might be selected which might do a certain thing. It would seem to us that we would be wholly unjustified in holding that such an alleged disclosure of the vital elements of the counts was sufficiently clear so as to enable Kemmer to make claims corresponding to the counts.

In view of the ambiguity in the counts as to the meaning of the step relating to the separation of the vapor, we think the counts should be construed in the light of the patent from which they were taken. *Hausman* v. *Hochman*, 23 C. C. P. A. (Patents) 1162, 83 F.(2d) 703, 1936 C. D. 512; *Neumair* v. *Malocsay*, 22 C. C. P. A. (Patents) 1349, 77 F.(2d) 622, 1935 C. D. 713. To construe them as Kemmer

wishes them construed, it is necessary to hold that the material itself which is being heated constitutes the separating means. There is no hint in the patent of such teaching. The counts do not call for separation of the dust from the mass to be heated but call for "separating dust from said vapor". In both forms of disclosure in Hansgirg's patent, the vapor is first removed from the material and then, in passing through screening material, which is not a part of the material from which the vapor is derived, the dust is left behind. We think the counts should be construed to mean that the removing of the dust is brought about by some means other than by the heated material itself.

However, it is our view that if the Board's interpretation of the count was the proper one, we are of the opinion that it was not warranted in concluding that the vapor in passing through a briquette binding, the nature of which was not disclosed, would inherently leave the dust behind. In our view of the case it makes no difference whether the briquettes retained their form or not or whether by the heat they would be reduced to powder as was suggested by the minority member of the Board. We may not conjecture, under the circumstances, that the binder, under the teachings of Kemmer, would be selected of such material as would possess such porosity or other characteristic as would bring about the desired results. If it be assumed that the binding of the briquette prevents the dust from leaving its original position in the mass of the material being heated, no separation such as is called for by the counts has taken place. This reasoning would presuppose that the process only involved separating the dust from the material. The counts call for separating the dust from the vapor and, obviously, the fair meaning of the phrase would require that the vapor, at some point before the dust was separated from it, would have an existence separate from that of the material.

[2] For reasons stated, it is our view that the Kemmer disclosure was not sufficient to form the basis for making the counts and that the interference should have been dissolved on the ground that Kemmer could not make the claims corresponding to the counts.

In this court, Hansgirg moved to strike out certain portions of Kemmer's brief. On December 27, 1938, this court ordered certain portions of the same to be stricken out and reserved decision as to items 2 and 3 pending argument on appeal. The motion of Hansgirg to strike out said items 2 and 3 is denied.

The decision of the Board of Appeals is reversed.
Reversed.

U. S. Court of Customs and Patent Appeals

IN RE WALTER

No. 4,062. Decided February 27, 1939

[102 F.(2d) 217]

PATENTABILITY—SAUSAGE CASINGS.

Claims for sausage casing *held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. Roy W. Johns for Walter.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Examiner denying patentability of the two claims of an application for patent for sausage casings, the claims reading:

2. An artificial pork sausage casing comprising relatively thin cellulose acetate walls of cylindrical shape, prepared from sheeting and having an overlapped fused joint.

3. A pork sausage package comprising a cellulose acetate casing prepared from sheet cellulose acetate having the edges fused with a solvent forming a substantially cylindrical package tied at the ends.

Four patents were cited as references, viz.: Faber, 1,659,399, February 14, 1928; British patent, 292,582, April 11, 1929; German patent, No. 480,422, August 1, 1929; Walsh, 1,950,954, March 13, 1934.

As appears from the claims appellant's casing is prepared from thin cellulose acetate sheeting formed into cylindrical shape with overlapped edges, the edges being fused with a solvent. Claim 3 embraces also a feature of tied ends, but the brief for appellant concedes that this feature is shown by the German patent and states that "It is not urged that this feature is sufficient to confer patentability on the claim." It is urged, however, that the claim is patentable by reason of its other limitations, although in oral argument counsel for appellant went so far as to concede that if claim 2 be not patentable then claim 3 is not. However, he insisted that the converse of this is not true and that claim 3 might be found non-patentable and claim 2 at the same time allowed.

The Examiner referred to the British patent as the basic reference.

This patent, which contains both product and method claims, has no drawing, but discloses a casing made of "cellulose regenerated from its solutions; viscose, cupro-ammoniacal solution, denitrated nitro-cellulose, etc." The casing is declared to be valuable because it permits moist substances such as sausages, jam, honey, etc., to be preserved; also it is said that the casing allows the "smoking, curing, cooking, sterilizing, etc." of its contents. It is taught that in the process of manufacture the cellulose sheet—

"is wrapped round a mandrel of suitable diameter in such a manner that the two parallel edges of the sheet overlap slightly, the said two edges are then united together not by a mere gluing but by positive autogenous welding, that is to say the two edges of the sheet are so dissolved by means of a suitable solvent as to penetrate one another and make a jointless union, this feature being the characteristic feature of the invention whereby the casing obtained is suitable for containing moist substances without possibility of opening along the joint."

It is said further in the specification that any suitable solvent may be used for the autogenous welding, concentrated chloride of zinc being given as an example.

It appears that the material used by appellant (cellulose acetate) is different from the material (regenerated cellulose) used in the patent, but it was the view of the Examiner that no invention was involved in appellant's substitution of material, "particularly in view of the secondary art," as shown in the patents to Faber and Walsh.

In the decision of the Board the principal emphasis seems to be placed upon the Walsh and Faber patents. It contains no specific expression of opinion upon the question of substitution of materials. Its decision says:

• • • Faber states that viscose may be used instead of a solution of acetyl cellulose in making seamless containers. Faber does not, however, state that cellulose is equivalent for cellulose acetate as a container material for moist articles.

Walsh is concerned with a cementing agent for cellulose plastics particularly cellulose acetate and for this purpose Walsh uses a mixture of solvents for the plastic, the ingredients of the mixture having different boiling points. Walsh states that his solvent mixture may be used with viscose products. The teaching of the Faber patent is to make an air-tight cellulose acetate receptacle of sections overlapped and united at the seam by cement. Walsh teaches the use of specific solvent mixtures to be used with cellulose acetate plastics.

It is our opinion that the method of preparing the package from sheeting is independent of the package itself, to which the claims are directed, and we believe that the Faber patent itself discloses the receptacle of claim 2 with an overlapped fused joint • • •. The word "fused", as used in the claims, is defined at the end of page 3 of applicant's specification as the same effect as that described by Walsh and we are of the opinion that claim 2 is devoid of invention over Faber in view of Walsh as it is obvious to use the solvent described by Walsh in cementing the overlapping edges described by Faber.

As to claim 3, we see no invention in tying the package at the ends and this feature is shown in the German patent.

Before us the purport of the argument by counsel for appellant is that the British patent makes no suggestion of the possibility of employing cellulose acetate in the manufacture of sausage casings which, the brief states, was a material well known prior to the date of that patent; that the Faber patent makes no suggestion of a fused joint within the meaning of the term as used in appellant's application; that it never occurred to Faber that the joints could be fused; that the patent to Walsh is not concerned with end products of a casing; that while cellulose acetate and regenerated cellulose produced from viscose may be equivalents for the purposes of Faber or of Walsh it does not follow that they would be equivalents for the purposes of the British patent; that appellant discloses a sausage casing entirely unlike any sausage casing previously used in the art thereby making a specific and valuable contribution to an already crowded art and that the decision of the Board rests "on broader grounds than is warranted by the breadth of the claims involved."

Respectful consideration has been given the quite interesting presentation made by counsel who, particularly in his oral argument, entered at some length into the philosophy of certain phases of the patent law, but, in view of the state of the art as depicted in the references, we are unable to accredit appellant with an invention. Faber's patent impresses us as being quite broad. The drawings as described in the specification appear to be limited to cigar-protecting devices, with molds for making same, and a preferred form of container for "granular or pulverized articles," but the specification as a whole seems clearly broad enough to embrace articles precisely similar in material and design (except for the tied ends) to the casing of appellant. It may be conceded that Faber does not specifically teach the making of a fused joint or seam of the same type as that of appellant, but so far as the seam or structure is concerned it is shown by the British patent, and the Walsh patent makes it clear that fusing by use of a solvent may be applied to the material used by appellant as well as to the material used in the British patent.

The decision of the Board of Appeals is affirmed.
Affirmed.

U. S. Court of Customs and Patent Appeals

GILMAN
v.
KLEIN AND SHEEHAN

No. 4,002. Decided February 6, 1939

[101 F.(2d) 668]

INTERFERENCE—PRIORITY.

Evidence reviewed and *Held* that the junior party G failed to prove any date for either conception or reduction to practice earlier than the filing date of his application and that priority was properly awarded the senior party K and S.

APPEAL from Patent Office. Affirmed.

Mr. Hugh Keneipp, Mr. Ralph N. Flint, and *Mr. George B. Schley* (*Messrs. Blackmore, Spencer* and *Flint* of counsel) for Gilman.

Messrs. Whittemore, Hulbert and *Belknap* (*Mr. Clarence B. Zewadski* of counsel) for Klein and Sheehan.

JACKSON, *J.*:

This is an appeal by Gilman, the junior party, from a decision of the Board of Appeals of the United States Patent Office which affirmed that of the Examiner of Interferences awarding priority of the involved invention to Klein and Sheehan, the senior parties.

The subject matter in controversy, in general, relates to a method of making bearings comprising a supporting outer steel shell to the inner surface of which a lining of bronze is inseparably united to make a bearing surface. The bearings are designed to be used in engines operated at high speeds, especially in airplanes and automobiles.

The Examiner of Interferences describes the process as follows:

• • •. These bearings may be made by axially centering a core of some nature within and spaced from the tubular outer steel shell so as to leave an annular space considerably larger than the desired thickness of the finished bearing surface between the shell and core, the bottom of the shell and core being sealed against entry of water in a suitable manner. The mold assembly thus formed is heated to a temperature above the melting point of the copper-lead bronze, and the molten bronze is then poured into the heated assembly in the space between the core and the steel shell. Immediately thereafter a suitable cooling medium is applied to the outer surface of the shell so that the assembly will be cooled very rapidly from the outside inwardly toward the center. In this manner the lining is united to the steel backing by fusion whereby a practically integral and single piece bearing is produced; and wherein the joint or bond between the shell and bronze lining is characterized by the alloying of the copper content of the bearing metal and the steel of the shell. This immediate and rapid cooling from the outside inwardly causes any segregation of lead or any other defects to occur inwardly near the core and away from the steel shell. After cooling the assembly is stripped of the core and bottom sealing means, and the shell and lining are machined to the required dimensions in the conventional manner.

The counts are:

Count 1. The method of forming bearings comprising the casting of a copper lead compound having a lead content from 15% to 50% in a pre-heated steel shell and in

immediately rapidly chilling the exterior surface of said shell.

Count 2. The method of forming bearings comprising the casting of a copper lead compound having a lead content of between 15% and 50% in a steel shell preheated to a temperature from 1900 to 2000° F., the temperature of the molten metal when introduced into the shell being between 1850 and 1950° F., and in immediately rapidly chilling the exterior surface of the shell.

Count 3. The process of making a bearing which consists in providing a mold having an outer annular ferrous metal part and a central core whereby an annular space is formed between the two; heating said mold to a temperature approximately that of the melting point of bronze; pouring molten bronze into the annular space aforesaid; cooling said mold and bronze rapidly and from the outside inwardly and toward the center thereof from the temperature immediately after pouring at which the bronze is liquid, to a temperature below that at which the bronze becomes solid; and finally finishing the outside of said outer part and the inside of said bronze bearing metal to the form and size of a finished bearing.

Counts 1 and 2 are from the application of Klein and Sheehan and count 3 from the Gilman application. The party Gilman filed a preliminary statement alleging conception and disclosure to others of the invention defined in the counts as of about the middle of the year 1925 and reduction to practice in about January or February, 1926.

The parties, Klein and Sheehan, took no testimony and are limited to their filing date, December 14, 1931, for conception and constructive reduction to practice. Gilman filed his application in interference February 12, 1932, took testimony and made of record his prior copending application, Serial No. 360,899, filed May 6, 1929, as evidence of his constructive reduction to practice of the invention of the counts in issue.

It was held by both tribunals below that the prior Gilman application does not constitute constructive reduction to practice because it fails to disclose the invention defined by the counts.

The prior Gilman application sets forth its object as follows:

The object of my said invention is to provide a bearing and a method of making the same composed of metals which will provide a bearing of the necessary strength and rigidity and a bearing surface which will be of comparatively soft wearing quality but at the same time capable of resisting much higher temperature and withstanding much greater strain or "pounding" in service than metals such as Babbitt metal; and also one in which the metals are united by a bond that makes them practically integral and incapable of separation under flexing or any other strain.

As to the composition of the bearings, the said prior application states:

I have found by experience that a steel shell affords the best foundation for a bearing such as required for the purpose indicated for the reason that it may be of lighter weight for the same degree of strength than any other metal which I have found suitable for the purpose. I have also found that so-called "plastic bronze" makes a most desirable metal for the lining or wearing surface for the bearing. By "plastic bronze" I mean a composition composed of copper and lead the proportions of which may be varied to suit different conditions and different requirements, a suitable composition being thirty (30) parts of lead and seventy (70) parts of copper.

A method of forming the bearing according to the earlier of Gilman's application reads:

In Figure 2 I illustrate a method of forming the bearing which consists in mounting a cylinder D with a bottom *d* within the shell B and pouring the molten bronze from a ladle E into the space between the cylinder and the inner surface of the shell. It will be understood of course that the ends of the bearing are machined off approximately after the bearing is finished. The bottom *d* of the cylinder D is large enough to cover the end of the shell B as clearly indicated.

The said prior application sets forth the steps of the method as follows:

In the practice of the method by which these bearings are produced the steel shell of appropriate thickness is heated to a temperature which is approximately the temperature required for melting the bronze metal which is to be used to provide the bearing surface. The bronze metal is heated not only to the melting point but to approximately two hundred (200) degrees above its melting point and then is applied to the surface of the shell by the method heretofore described and illustrated in Figure 2 of the drawing or by any other method found appropriate. The bronze metal being in a fluid condition and the steel of a temperature substantially the same as that of such bronze metal the two metals fuse and unite firmly together forming a bond that makes the two metals practically integral and incapable of separation regardless of strain, flexing or other duty imposed in use.

After the bronze metal is poured or otherwise applied to the steel shell it is allowed to cool for a short period sufficient to allow the two metals to fuse together but before the lead in the composition of the bronze can settle and separate from the copper by reason of its greater gravity the bearing is immersed in a cold bath and cooled quickly so that the copper and lead content of the bronze composition are held in the metal properly mixed and of the same relative proportions throughout.

The application further states:

While I have illustrated a bearing with the shell lined on its inner surface with the bronze it will be understood of course that its outside may be in a like manner covered with a bronze bearing surface or the bearing surface may be applied to both sides of the steel shell, depending upon the character of use for which the bearing is intended.

While the Board of Appeals agreed with the conclusion of the Examiner of Interferences in holding that the earlier application of Gilman did not constitute a disclosure of the invention defined in the counts, it considered, contrary to the holding of the Examiner of Interferences, that the copper-lead proportions fall within the ranges specified in the counts. The Board of Appeals also disagreed with the Examiner of Interferences in holding that the earlier application of Gilman did not disclose immediate chilling of the assembly after pouring.

The Board said:

* * *. In view of the fact that designating the chilling of the mold in the Klein and Sheehan disclosure as "immediately" after pouring involves the intermediate time of lowering the mold into the chilling chamber between the time of pouring and the time of chilling, and as the earlier Gilman application states that after pouring the molten bronze into the mold the chilling must take place before the lead in the composition of the bronze can settle and separate from the copper by reason of its greater gravity, we consider that this Gilman application discloses chilling immediately after the pouring within the contemplation of the requirements of the counts in issue as to this.

We agree with the Board that Gilman did disclose, in his prior application, both lead and copper proportions and immediate chilling in conformity with the counts.

The process invention here, however, requires an additional essential step that is not disclosed in the earlier Gilman application and that step is the rapidly chilling or cooling of the shell or mold from the exterior surface. Appellant contends that this step does not mean that the chilling shall be "only" from the exterior surface. We cannot agree with this contention. Since the cooling process, as defined in the counts, consists in chilling the exterior surface of the shell and is from the outside inwardly, it is certainly clear that the cooling process can be of no other character.

It appears that chilling from the inside or chilling from both the inside and outside does not produce the result sought, namely, a fusion between the copper content of the bronze and the steel shell.

It will be observed that the prior application of Gilman states that the bronze metal and the steel are fused and that the bearing is immersed in a cold bath. The apparent purpose is, as stated in the application, to secure the two metals comprising the bronze, in the same relative proportion throughout. This is not the result obtained by chilling from the outside only. Moreover, we note that Gilman specifies that a bearing may be produced by his process with a bronze bearing surface on both sides of the steel shell. This, we think, clearly indicates that by the use of the term "immersed", he intended it to mean cooled from both inside and outside.

We believe that the decisions of both tribunals below are correct in holding that the counts in issue are not readable upon the disclosure of the earlier application of Gilman and we so hold.

Appellant further contends that even though Gilman should not be given the date of his prior application for constructive reduction to practice, nevertheless, the said application proves that he was in possession of the invention when the earlier application was filed. This contention, we think, is answered by a reading of the application itself. It does not disclose the entire method of the counts in issue as above set forth, and it is our opinion that if he possessed the invention he would surely have shown it in his application.

The testimony and exhibits show that sample bronze-lined bearings were made by the Allison Engineering Company, of which the appellant was the president, general manager, and chief engineer during January, 1926. The method followed in their production, however, was materially different than that of the counts, in that a pre-cast bronze sleeve was inserted in the cold assembly and then the whole assembly was heated to about 1900° F.

A most careful examination of the record indicates to us, as it did to the tribunals below, that the only testimony on record that the first bearings produced by the Allison Company, by a method which satisfies the counts, was in 1927, is that of Gilman. His testimony, however, is not sufficiently corroborated. Exhibits 12 and 13 were placed in evidence for corroboration in this respect. Exhibit 12 consists of six blue prints, dated May 10, 1927 and depict cross-sections and details of an assembly which undoubtedly could be used with the process of the involved counts. Exhibit 13 consists of an order and a supplemental order from Ingersoll-Rand Company for bronze-lined wrist-pin boxes. These exhibits corroborate the testimony of Gilman that bronze-lined bearings were made for the Ingersoll-Rand Company but we do not see how anyone could spell out a method or process from the exhibits.

It is true that Exhibit 12 shows a welded bottom to the assembly, but there is nothing to indicate as to when or how it was cooled.

There are many exhibits before us consisting of blue prints, orders for bearings, correspondence concerning orders, cost sheets, several samples of bronze-lined bearings and a mold or shell without the bronze lining. They have had our most careful consideration and while they all are evidence that the process defined in the counts could have been used, they are not of themselves sufficient to show that the said process was followed. To review the oral testimony would unduly lengthen this opinion and, we think, the facts are of no value to any other case. We have carefully considered the testimony of the witnesses who appeared on behalf of Gilman. Nowhere do we find a definite statement from any witness as to when the cooling process of the counts was either conceived or who conceived it or when it was put into practice.

It seems to us that if the process here involved had been conceived and reduced to practice prior to the filing date of the senior parties, December 14, 1931, Gilman having as witnesses all of the assistants who had to do with the production of the bearings produced by his company, should have easily by clear, definite testimony had his evidence corroborated.

The Examiner of Interferences, paraphrasing the language in the case of *Bourne* v. *Hill*, 27 App. D. C. 291, 296, 123 O. G. 1284, summarized as follows:

A careful reading of the testimony fails to establish that Gilman had more than scratched the surface. All the circumstances surrounding the case, and his own conduct, tend to strengthen this opinion. He was president, general manager, and chief engineer of a company engaged in the manufacture of bearings, with ample means and facilities for making improvements in this art at his command, a patentee of improvements in bearings and had filed in 1929 an application heretofore referred to broadly disclosing a related process for making these bearings; and had full knowledge of the need for an improved process for the successful production of such bearings. It seems impossible that he would have waited three or four years after he had solved the problem, meanwhile filing application Serial No. 360,899, before presenting an application for the improved and successful process. *Bourne* v. *Hill*, 123 O. G. 1284.

We believe that the Examiner of Interferences, in his said summary has correctly and properly set out cogent reasons for his holding that the junior party, Gilman, has not sustained his burden of proof. The Board of Appeals is in accord with the conclusion of the Examiner of Interferences in assigning to Gilman February 2, 1932, his filing date for conception and constructive reduction to practice, and we agree with this holding. Since this is subsequent to the filing date of Klein and Sheehan the decision of the Board of Appeals should be and is hereby affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

GEORGIEV *v.* FRUTH

No. 4,071. Decided February 27, 1939

[102 F.(2d) 222]

INTERFERENCE—PRIORITY—RIGHT TO MAKE COUNTS.

Record reviewed and *Held* that the senior party G is entitled to make the counts and that priority should have been awarded to him, since the filing date of his application was earlier than any date of conception alleged by the junior party F.

APPEAL from Patent Office. Reversed.

Mr. H. H. Benjamin (*Mr. Morris Hirsch*, and *Messrs. Dean, Fairbank, Hirsch* and *Foster* of counsel) for Georgiev.

Mr. Leon Robbin for Fruth.

JACKSON, *J.:*

This is an appeal in an interference proceeding from a decision of the Board of Appeals of the United States Patent Office involving a patent of appellee, No. 2,020,408 for a "Condenser foil terminal", issued November 12, 1935, upon an application, Serial No. 699,658, filed November 25, 1933, and an application for a patent by appellant for "Electrode terminal construction", Serial No. 569,926, filed October 20, 1931.

The two counts involved originated in the patent of the appellee and read as follows:

1. A terminal for electrolytic condenser foils comprising a terminal member, a condenser foil wrapped directly around said terminal member to provide one or more folds in said foil and direct contact with said member engaged within one or more of said folds and means securing said member to said foil within the folded area of the latter.

2. A terminal for electrolytic condenser foils comprising a terminal member having a flattened portion, a condenser foil wrapped directly around said terminal member to provide one or more folds in said foil and direct contact with said member engaged within one or more of said folds and means securing said member to said foil within the folded area of the latter.

As the earliest date alleged by appellee for conception of his invention was later than the filing date of appellant's application, an order to show cause why judgment should not be rendered against him was issued. A motion to dissolve the interference was then made by appellee on the ground that the counts were not supported by the disclosure of appellant. The Primary Examiner denied the motion and the Examiner of Interferences thereafter awarded priority of invention of the subject matter to appellant. Upon appeal to the Board of Appeals, the decision of the Examiner of Interferences was reversed on the ground that the application of appellant did not disclose the structural limitations of the counts, and priority of invention was awarded to appellee.

The subject matter of the invention together with a statement showing the similarity in purpose and structure of both parties is set forth by the Board as follows:

The two counts relate to the construction of an electrolytic condenser, and more particularly to the terminal portions of one of the condenser foils. Electrolytic condensers of the type here involved are formed by rolling two sheets of foil spaced by an absorbent member containing an electrolyte into the form of a cylinder. Each sheet of foil must be provided with some sort of terminal for connection to the system with which the device is used. It is desirable that the foil be rather thin in order that the maximum surface may be obtained at a minimum expense and in a minimum space.

Fruth proposed to use a separate element in forming his foil terminals, which element was originally in the form of a wire of the same material as the foil. Fruth proposed to flatten this wire at one end, wrap the end of the condenser foil about it, and unite the foil to the terminal member within the fold. Fruth's preferred manner of uniting the parts was to punch tongues, or the equivalent, from all of the overlying parts to the side opposite that to which the punching took place and clinch the parts thus caused to protrude from said opposite side upon the surface of the foil.

Georgiev also conceived of using a separate member for terminal purposes, either to reinforce a terminal member integral with the foil or to serve solely as a terminal member by attachment to the end of the foil, as by rivets. In the specification Georgiev states that the terminal member, as shown in Fig. 3, "may be, and preferably is, laterally reversed to afford a folded foil edge not shown."

The decision here hinges solely upon the interpretation to be given to the disclosure of appellant's application.

A drawing identified as Fig. 3, in the application of appellant, shows a square sheet of thin aluminum foil fastened along its right edge with aluminum rivets to a longer strip of heavier aluminum, called a tab, quite like a flag might be nailed to a flat pole.

Concerning this structure the application reads as follows:

In a preferred specific application of condenser shown in Fig. 4, the construction of cathode foil specifically shown in Fig. 3 is somewhat simpler than the anode foil previously described. The cathode foil 30, also of aluminum, is devoid of any integral tab but has directly riveted thereto as by aluminum rivets 31 a reinforce strip 32 of heavier stock which protrudes to form the elongated tab 33. The tab 33 in this instance is devoid of any binding post connection. The tab may be and preferably is laterally reversed to afford a folded foil edge (not shown).

The Board differed with the Primary Examiner in the interpretation it placed upon the sentence "The tab may be and preferably is laterally reversed to afford a folded foil edge (not shown)." The Primary Examiner held the application disclosed that by laterally reversing the tab, it was turned over from right to left thus making a fold of foil embracing the tab. The Board held that by laterally reversing, the tab could be turned from left to right and thus it would not be enfolded in the foil and could not support the counts.

The Primary Examiner based his reasoning, in part, upon the fact that in describing the construction of Figs. 1 and 2, the specification of appellant uses the same term "laterally reversed", and it is quite clear to us from an examination of the drawings that the tabs shown in Figs. 1 and 2 are turned over from right to left although the tab is an integral part of the foil. Drawings may be used as an aid in interpreting the specification. *Bloodhart* v. *Levernier*, 20 C. C. P. A. (Patents) 917, 64 F.(2d) 367, 1933 C. D. 260.

We agree with the contention of appellant that the natural reading of the specification as applied to Figs. 1 and 2 should not mean something else when applied to Fig. 3.

The only difference between the counts consists in a recitation in count 2 of "a terminal member having a flattened portion". On this question we agree with the decision of the Primary Examiner, which states:

The term "flattened" is broad enough to include a terminal member which is flat throughout its length as shown by Georgiev in Fig. 3 or a terminal member which is only partially flat as shown by Fruth. There is no positive recitation in the claim as to the shape of the remaining portion of the terminal. Funk and Wagnalls New Standard Dictionary defines flat as "Having a surface that is a horizontal plane, or nearly so; and flattened pa. Made flat." The terminal of Georgiev may be thus properly described as having a flattened portion without regard to the shape of the rest of the terminal.

We think the specification of appellant, considered with the drawings, without doubt, clearly discloses the subject matter of the counts and the case of *Lindley* v. *Shepherd*, 24 F.(2d) 605, 58 App. D. C. 31, 370 O. G. 513, cited by the Board, is not pertinent here.

Since it is clear from the record that appellant's disclosure supports the counts, priority in this proceeding should have been awarded to him. The decision of the Board of Appeals is reversed.

Reversed.

U. S. Court of Customs and Patent Appeals

IN RE DIEDERICHS

No. 4,128. Decided February 27, 1939

[102 F.(2d) 215]

1. PATENTABILITY—JUMPING FIGURE TOY.
Claims for a jumping figure toy *Held* unpatentable over the prior art.

2. SAME—NOT CONFERRED BY NOVELTY ALONE
"The fact that a device may be new does not render it patentable by reason merely of its novelty."

3. REJECTION—COMBINATION OF REFERENCES.
"Appellant contends that as neither reference cited discloses all of the structure of the appealed claims the claims were improperly rejected. This contention is not sound * * *."

APPEAL from Patent Office. Affirmed.

Mr. Edwin E. Vrooman for Diederichs.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

JACKSON, *J.:*

This is an appeal from a decision of the Board of Appeals of the United States Patent Office, affirming a decision of the Examiner rejecting all the claims, three in number, of appellant's application for a patent for want of invention over the prior art.

Claim 10 is illustrative of the appealed claims and reads as follows:

10. As a new article of manufacture, a jumping figure toy comprising a casing, a cover provided with a manikin-receiving apertures on said casing, horizontal guiding spurs on said cover and extending into said apertures, manikins in said apertures, each manikin provided in its side with a single elongated groove closed at its top and open at its bottom, said spurs extending at their outer ends into said grooves of the manikins, whereby the manikins have their faces always to the front and means for sliding said manikins upon said cover.

The references relied on are: Bauchwitz, 1,194,268, August 8, 1916; Diederichs, 1,565,716, December 15, 1925.

The alleged invention relates to a jumping figure toy comprising a deep hollow casing through the cover of which are vertical apertures. Cylindrical posts which are free to move up and down are placed in the apertures and on the top of each of the posts is a doll or manikin. Through a system of gears actuated by a hand crank, the posts are made to jump or move reciprocally up and down. Each post is provided in its side with an elongated groove substantially closed at its upper end and open at the bottom so that the posts may be removed or changed at will. In the wall of each aperture is fastened a horizontal guiding spur, the outer end of which extends into the groove. By reason of the groove and the spur, the post is kept from turning and the face of the manikin is always to the front of the device.

Appellant states in his application that:

This invention is an improvement upon the jumping figure toy disclosed in my prior United States Patent No. 1,565,716, issued December 15, 1925.

The alleged improvement over appellant's patent consists of the guiding spur and groove.

The Diederichs patent relates to a jumping figure toy and the only difference between the disclosure of the patent and the toy illustrated in the present application is that in the patent there is no groove and guiding spur.

The patent to Bauchwitz relates to a machine for punching characters and the like out of paper and affixing them to a backing of cardboard. This patent was cited by the Examiner to show a shank, vertically guided in a yoke by a set-screw, working in a groove in the shank.

The Examiner in holding that the guiding spur in cooperation with the groove is old as shown by the Bauchwitz reference stated:

This structure is old, as shown by Bauchwitz, cited above. Note in Fig. 1 that there is an elongated groove cut lengthwise in the stem of the follower, which is open at one end and closed at the other, and that there is a horizontal guiding spur which extends into the groove. If this follower were substituted for applicant's follower, the manikins would be removable, and would always have their faces to the front. Since the reference's structure is of metal, the threaded set-screw is practical, but it would not require invention to substitute a carpenter's headless nail and drive it from the inside of the aperture.

It was further held by the Examiner that the general combination of jumping figures is old, as shown by the prior patent to Diederichs.

The Board of Appeals affirmed the decision of the Examiner and stated that it did not involve invention to add the well known form of connection, as disclosed in the Bauchwitz patent, to the patented structure of appellant in order to provide an obvious improvement.

There is no doubt but that appellant's claimed invention is an improvement over the toy shown in his patent. With the groove and the guiding spur shown in the application, the toy figures cannot turn in the apertures as they can in the structures of the patent. It, however, does not follow that the improvement is not obvious or that it involves invention to make the improvement.

It seems only sensible to us that, if it were desired to keep a wooden post from turning in a hole in a wooden platform, the obvious thing to do would be to fasten it to the platform with a nail or screw. Should it be desired to move the post up and down in the hole without permitting it to turn, we believe it would be a very natural thing to cut a groove down the side of the post and permit the nail head to cooperate with the groove in guiding the post in its movement. It certainly cannot involve invention to leave the groove open at the bottom so that the post may be raised and removed.

[1] While it is apparent that the jumping toy disclosed in appellant's application is better and more attractive than the toy of his patent, the change called for in the appealed claims does not, in our judgment, amount to invention.

[2] The fact that a device may be new does not render it patentable by reason merely of its novelty. In the case of *In re Burnham*, 19 C. C. P. A. (Patents) 723, 53 F.(2d) 534, 1932 C. D. 56, we quoted with approval from *Thompson et al.* v. *Boisselier et al.*, 114 U. S. 1, 11, 31 O. G. 377, as follows:

* * *. So, it is not enough that a thing shall be new, in the sense that in the shape or form in which it is produced it shall not have been before known, and that it shall be useful, but it must, under the Constitution and the statute, amount to invention or discovery.

See also *In re Staude*, 18 C. C. P. A. (Patents) 894, 46 F.(2d) 579, 1931 C. D. 135; *In re Wilms*, 20 C. C.

P. A. (Patents) 896, 63 F.(2d) 355, 1933 C. D. 239; *In re Green*, 25 C. C. P. A. (Patents) 1143, 97 F.(2d) 130, 490 O. G. 729.

[3] Appellant contends that as neither reference cited discloses all of the structure of the appealed claims the claims were improperly rejected. This contention is not sound as we pointed out in the case of *In re Cordes*, 22 C. C. P. A. (Patents) 1158, 76 F.(2d) 302, 1935 C. D. 522:

> In passing upon the patentability of combination claims we have frequently combined references and held that, in view of such references, an alleged new combination would be obvious to one skilled in the art, and hence unpatentable. The case of *In re Farrand*, 18 C. C. P. A. (Patents) 1452, 49 F.(2d) 1035, is illustrative of this class of cases. The claims there involved were combination claims. The elements of the combination were not found in any single reference, but one element was disclosed in one of the references and the other two elements of the combination were disclosed in another of the references.

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We have examined with care the cases cited by appellant but none of them, in our opinion, are relevant to the issue here and, therefore, need no discussion.

For the reasons stated the decision of the Board of Appeals is affirmed.

Affirmed.

Patent Suits

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2,029,870, C. F. Holske, Refrigeration, filed May 22, 1939, D. C., N. D. N. Y., Doc. 201, *C. F. Holske v. Harder Refrigerator Corp. et al.*

2,036,638, F. F. Lindstaedt, Parasiticide; 2,091,840, G. D. Turnbow, Vermifuge, included by answer, Jan. 27, 1938, D. C., N. D. Calif. (San Francisco), Doc. E 4090-R, *G. D. Turnbow v. Farmers' Cooperative Exchange.* Patents held valid and infringed, injunction May 16, 1939.

2,038,974, R. W. Werner, Hydraulic jack, filed May 24, 1939, D. C., E. D. Wis. (Milwaukee), Doc. 112, *R. W. Werner v. Hein-Werner Motor Parts Corp.*

2,075,827, Northrop & Gesner, Anchor, D. C., N. D. Calif. (San Francisco), Doc. E 4300-R, *Northill Co., Inc., et al. v. J. C. Phillips et al.* Patent held valid and infringed, injunction May 15, 1939.

2,090,601. (See 1,829,714.) 2,091,840. (See 2,036,638.)

2,091,840, G. D. Turnbow, Vermifuge, D. C., N. D. Calif. (San Francisco), Doc. 21067-S, *Lederle Laboratories, Inc., et al. v. Farmers' Cooperative Exchange, Inc., et al.* Patent held valid and infringed, injunction May 16, 1939.

2,093,024, E. R. Williams, Ingot mold stool, filed May 23, 1939, D. C., W. D. Pa., Doc. 355, *Vulcan Mold & Iron Co. v. Superior Mold & Iron Co.*

2,095,223, A. O. Samuels, Fan, filed May 27, 1939, D. C., W. D. N. Y., Doc. 176, *Samson-United Corp. v. F. A. Smith Mfg. Co., Inc.*

2,115,537. (See 1,895,409.)

2,116,457, J. H. Whitmarsh, Ventilating building block, filed May 25, 1939, D. C. Tex. (Dallas), Doc. 94, *J. H. Whitmarsh v. N. Scott (Scott Art Stone Co.).*

Re. 19,921, G. W. Poppe, Paper bag and process and machine for making same, appeal filed Feb. 13, 1939, C. C. A., 3d Cir., Doc. 7013, *J. Waldron Corp. v. Equitable Paper Bag Co.*

Re. 19,924, 1,957,992, H. Cohen, Tourniquet, D. C., S. D. N. Y., Doc. E 87/5, *D. Cohen v. Chester Instrument Co., Inc., et al.* Decree for plaintiff (notice May 29, 1939).

Des. 114,395, L. W. Goodkind, Lady's suit, filed May 27, 1939, D. C., S. D. N. Y., Doc. 4/62, *Londonerry, Inc., v. Kolbert, Lieberman, Inc.*

Changes in Classification

Order No. 3,482, July 21, 1939, directs:

In *class 88, Optics* (Division 7), establish the following subclass and definition:

Eyeglasses and spectacles
Lenses
54.5 Eye contact type.

54.5. Lenses peculiarly adapted to be placed directly in contact with the eyeball.

The patents contained in this subclass have been taken for the most part from class 88, subclass 54.

In *class 179, Telephony* (Division 51), establish the following subclass and definition:

Relays
171.5 Modulators.

171.5. Modulators and all combinations otherwise classifiable in subclass 171 of which a modulator is a part.

(1) Note.—A descriptive but not a limitative definition of modulator is means for producing an electrical wave, some characteristic of which varies as the function of the instantaneous value of another electrical wave or controlling influence.

(2) Note.—While the majority of the modulators employ electric discharge tubes as the modulating means, modulators employing other means are also here.

(3) Note.—Modulators which incidentally amplify, including those which amplify a portion of the modulated signal for feed back purposes, and systems which amplify and subsequently modulate are here.

(4) Note.—Modulators combined with other means forming systems for which there is an art classification should be searched in the particular arts, attention being particularly called to the following:
This class (179), particularly subclasses 2.5 and 15.
Class 177, ELECTRIC SIGNALING, particularly subclasses 351 and 352.
Class 178, TELEGRAPHY, particularly subclass 5 and indented subclasses, which include television systems, transmitters and receivers.
Class 246, RAILWAY SWITCHES AND SIGNALS, particularly subclasses 8 and 30.
Class 250, RADIANT ENERGY, particularly subclasses 6, 9, 11, and 17. It is further noted that systems having modulation with subsequent amplification of the modulator output are in subclass 17.

(5) Note.—Subcombinations and elements useful with modulators and also useful in other relations must be searched in places in the classification appropriate to the subcombination or element, the following being particularly noted:
(*a*) Miscellaneous electric discharge tube systems are in class 250, RADIANT ENERGY, subclass 27.
(*b*) Electric discharge tube structures are in class 250, RADIANT ENERGY, subclass 27.5 and indented subclasses, or in places specified in the notes to the definitions of such subclasses.

The patents contained in this subclass have been taken from class 179, subclass 171.

In *class 192, Clutches and Power-Stop Control* (Division 47), establish the following subclass and definition:

3.2 **Fluid impact coupling and clutch.**

3.2. Combinations of a fluid impact coupling and a clutch in which the coupling is a device for transmitting motion by means of the kinetic energy imparted to an operating fluid or fluent mass by a driving element and converted to useful work upon a driven element, and the clutch is of the type coming within this class.

(1) Note.—The driving and driven elements of the coupling may operate at the same or different speeds or in the same or different directions.

(2) Note.—See this class, subclass 57, for organizations of fluent material and mechanical clutches.

(3) **Search Classes—**
60—POWER PLANTS, subclass 54, for impact couplings per se.
74—MACHINE ELEMENTS AND MECHANISMS, subclasses 189.5, 293, and 294, for similar organizations combined with gearing.

The patents contained in this subclass have been taken for the most part from class 60, Power Plants, subclass 54, and from various subclasses in class 192.

In *class 210, Liquid Separation or Purification* (Division 49), abolish the following subclass with its definition:

Filters
Strainers
Pressure
Sectional
191 Heating or cooling.

The patents formerly contained in this subclass have been placed for the most part in class 210, subclass 150.7, established in this order.

In *class 210, Liquid Separation or Purification* (Division 49), establish the following subclasses and definitions:

Filters
Strainers
150.5 With heater or cooler
150.6 With additional fluid introduction.
150.7 Sectional pressure type.

150.5. Strainers under subclass 149 having means for either, or both, heating or cooling the material strained.

(1) Note.—Patents for passing fluids (in addition to the fluids being strained) into the strainer structure are not here but in other appropriate subclasses under subclass 149 even though the temperature of such fluids be specified and/or even though means for heating or cooling of such fluids are provided, unless there are additional means for heating or cooling. Burner means projecting combustion products against the strainer structure and heat radiating fins are considered as heaters and coolers and placed in this group of subclasses.

(2) Note.—**Search this class**, subclass 59, for decanters provided with means to heat or cool.

(3) Note.—See class 100, PRESSES, appropriate subclasses indented under "Expressing" for heated and/or cooled press type filters.

150.6. Strainers under subclass 150.5 having means to introduce a fluid material in addition to the material being strained.
Note.—See note (1) of subclass 150.5 of this class.

150.7. Strainers under subclass 150.5 of the type classified in subclass 188 and indented subclasses.

The patents contained in these subclasses have been taken for the most part from class 210, subclass 149 and indented subclasses, and from class 87, Oils, Fats and Glue, subclass 13.

In *class 30, Cutlery* (Division 24), subclasses 123 and 124, in note (5) of each in the reference to class 56, Harvesters, add subclass 327.

In *class 41, Ornamentation* (Division 17), subclass 21, note (2), in the reference to class 40, Card, Picture and Sign Exhibiting, cancel "and subclass 147, for picture supports having like features"; and in subclass 22, note (2), in the reference to class 40, cancel "124.5".

In *class 51, Abrading* (Division 58), subclass 194, add to note (2) the following:

101—PAINTING, subclass 415.1.
234—RECORDERS, subclass 77.

In *class 57, Textiles, Spinning, Twisting and Twining* (Division 21), subclass 94, number the existing note (*2*) and add:

(1) Note.—The driving device may provide a short interval wherein the speed is at a constant maximum.

In *class 60, Power Plants* (Division 18), subclass 54, number the existing note (*1*) and add:

(2) **Search Classes—**
74—MACHINE ELEMENTS AND MECHANISMS, subclasses 189.5, 293, and 294, for combinations of fluid couplings with gearing.
192—CLUTCHES AND POWER STOP CONTROL, subclass 3.2, for combinations of fluid impact coupling and clutch.

In *class 62, Refrigeration* (Division 44), subclass 135, cancel the definition (but not the notes) and substitute:

135. The combination of an air compressor, means to cool the compressed air, with or without means to subsequently expand the air;

and in subclass 140 cancel the definition (but not the notes) and substitute:

140. Gas cooling apparatus having means to remove or otherwise handle material which has been condensed out of the gas.

In *class 74, Machine Elements and Mechanisms* (Division 12), subclass 189.5, add the following note:

(3) Note.—For combinations of the coupling and a clutch, but wherein no gearing is claimed, see class 192, CLUTCHES AND POWER-STOP CONTROL, subclass 3.2.

In *class 192, Clutches and Power-Stop Control* (Division 47), subclass 48, number the existing note (*1*) and add:

(2) Note.—For combinations of fluid impact coupling and clutch, see this class, subclass 3.2, and class 74, MACHINE ELEMENTS AND MECHANISMS, subclasses 189.5, 293, and 294.

(3) Note.—For combinations of fluent material clutch and mechanical clutch, see this class, subclass 57;

and in subclass 57 number the existing note (*3*) and add:

(1) Note.—For combinations of fluid impact coupling and clutch, see this class, subclass 3.2, and class 74, MACHINE ELEMENTS AND MECHANISMS, subclasses 189.5, 293, and 294.

(2) Note.—For other multiple clutches, see this class, subclass 48 and indented subclasses.

In *class 201, Resistances and Rheostats* (Division 60), subclass 63, add the following note:

(2) Note.—See class 175, ELECTRICITY, GENERAL APPLICATIONS, subclass 30 and indented subclasses, for overvoltage arresters similar in structure to resistance units. Mere resistance unit structures, even though claimed as lightning or overvoltage arresters, are in this class (201), class 175 taking related structures for arc forming purposes with or without means for arc extinguishing.

In *class 210, Liquid Separation or Purification* (Division 49), in the first paragraph of the main class definition cancel "(*a*) separation of liquids from liquids or from solids by decantation or filtration or both", and substitute: (*a*) separation of liquids from liquids or from solids by decantation or filtration, or both, including such types of separation combined with any one or any combination of (I) heating or cooling; (II) agitation; and/or (III) introduction of additional fluids into the material undergoing separation, including those in which the three above operations or means for performing the same, act on initially solid material to break it down into liquids and solids;

and under "Search class" add:

34—DRIERS, for decanters and/or filters combined with a drier for the separated solids. The line is that class 210 takes decanters and/or filters with means to dry decanter and/or filter parts and/or the filtering material, and also such devices in which means which assist in the decanting and/or filtering operation may also function to dry the separated solids including those which pass gas through the decanter and/or filter structure. Class 34 takes such structure in combination with added drier structure to which solids are delivered after removal from the mixture even though an element of the decanter and/or filter (such as a movable filter bed) delivers solids to the drier.
23—CHEMISTRY, subclass 280, for melting separators.
100—PRESSES, subclasses indented under "Expressing" for press type filters;

in subclass 52 add the following note:

Note.—For complete search on decanter systems, see this class, subclass 44;

in subclass 150 change "are" to *may be*; in subclass 177 change "hydraulic" to *fluid*; and in subclass 188 add:

Search this class, subclass 150.7, for strainers of the type included in this subclass and indented subclasses, provided with heating or cooling means.

In *class 215, Bottles and Jars* (Division 58), subclass 100, number the existing note (*2*) and add:

(1) Note.—For attachments for bottles, jars, or the like having pouring lips which thereby convert the bottle or jar into a pitcher-like receptacle, see class 65, KITCHEN AND TABLE ARTICLES, subclass 31 and indented subclasses.

In *class 265, Force Measuring* (Division 36), in the first note following the main class definition, cancel from "or with means" to the end of the note.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 15, 1939

[VOL. 505. No. 3]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 416,084. FRASER COMPANIES, LIMITED, Edmundston, New Brunswick, Canada. Filed Feb. 15, 1939.

RESTICOSE

For Wood Pulp and Chemical Pulp.
Claims use since Sept. 23, 1931.

Ser. No. 419,280. SYLVANIA INDUSTRIAL CORPORATION, Fredericksburg, Va., and New York, N. Y. Filed May 10, 1939.

SYLPH

For Rayon Staple Fibre.
Claims use since Aug. 19, 1938.

Ser. No. 420,519. THE ENTERPRISE AGENCY, Charleston, W. Va. Filed June 15, 1939.



For Coal.
Claims use since April, 1935.

Ser. No. 420,520. THE ENTERPRISE AGENCY, Charleston, W. Va. Filed June 15, 1939.



For Coal.
Claims use since April, 1935.

Ser. No. 420,521. THE ENTERPRISE AGENCY, Charleston, W. Va. Filed June 15, 1939.



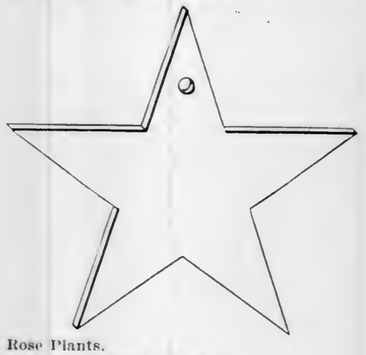
For Coal.
Claims use since April, 1935.

Ser. No. 420,565. AMALGAMATED LEATHER COMPANIES, INC., Wilmington, Del. Filed June 15, 1939.

HYGEA

For Leather.
Claims use since June 1, 1939.

Ser. No. 420,897. THE CONARD-PYLE COMPANY, West Grove, Pa. Filed June 24, 1939.



For Rose Plants.
Claims use since Feb. 1, 1919.

CLASS 2

Receptacles

Ser. No. 416,229. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed Feb. 18, 1939. Under section 5b of the act of 1905 as amended in 1920.

DU PONT

For Containers for Jewels, Pins, Puffs, Talcum Powder, Tooth Paste and Tooth Brushes, Hair Receivers, Brush Boxes, Bud Vases, Hatpin Holders, and Receptacles for Perfume Bottles Made from Pyroxylin Plastic, Cellulose Acetate Plastic, and Methyl Methacrylate Resinous Plastic.
Claims use since August, 1927.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 413,673. THE HYGIENIC PRODUCTS COMPANY, Canton, Ohio. Filed Dec. 10, 1938.



The representation of a woman is fanciful.
For Cleaning Powder for Water-Closet Bowls and Automobile Radiators.
Claims use since Sept. 1, 1938.

Ser. No. 413,674. THE HYGIENIC PRODUCTS COMPANY, Canton, Ohio. Filed Dec. 10, 1938.

Sani-Flush



The representation of a woman is fanciful.
For Cleaning Powder for Water-Closet Bowls and Automobile Radiators.
Claims use since Sept. 1, 1938.

Ser. No. 419,716. E-Z-R PRODUCTS CO., Glendale, Calif. Filed May 23, 1939.

E-Z-R

For Hand Cleansing Cream, Auto Finish Cleaner, Paint and Linoleum Cleaner.
Claims use since Aug. 14, 1938.

Ser. No. 420,170. THE EMULSOL CORPORATION, Chicago, Ill. Filed June 5, 1939.

COSMETOL

For Foaming and Emulsifying Cleaning Material, Sold as a Base for Combination with Aqueous and Other Substances to be Used for Detergent Purposes, Particularly for Shampoos and Rug Cleaning Preparations.
Claims use since Feb. 4, 1938.

Ser. No. 420,456. THE HART PRODUCTS CORPORATION, New York, N. Y. Filed June 13, 1939.

HYTERGEN

For Soaps and Soap Preparations.
Claims use since June 9, 1938.

CLASS 5

Adhesives

Ser. No. 419,168. P. BEIERSDORF & CO. INC., Long Island City, N. Y. Filed May 16, 1939.

Lassolastic

For Adhesive Tape Made of Halogenized Rubber Suitable for Use as Sealing Tape, Used for Instance for Sealing Packages, Cartons, and the Like, for Closing Cans, Tins, and Other Receptacles, as Mending Tape for Paper, Fabrics, and Similar Material, as Binding Tape for Fastening Together Pieces of Paper, Fabrics, or Other Materials.
Claims use since Apr. 20, 1939.

Ser. No. 420,150. SYLVANIA INDUSTRIAL CORPORATION, Fredericksburg, Va., and New York, N. Y. Filed June 3, 1939.

SYLVANIA

For Adhesive Containing Polyvinyl Resin.
Claims use since June 5, 1931.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 399,803. MOURAT MOURATOGLOU, Hollidays Cove, W. Va. Filed Nov. 16, 1937.

Mourat's Sil-Lube

No claim is made to the name "Mourat's" apart from the mark shown.
For Laxative Preparations.
Claims use since Aug. 2, 1937.

Ser. No. 403,196. CHEM-ALPHA, INCORPORATED, Brooklyn, N. Y. Filed Feb. 19, 1938.

CHEM-ALPHA INCORPORATED

For Soot Destroyers for Oil-Burning Systems, Boiler Scale Removers, Water Cleaning Compounds, Oil Burner Nozzle Cleaners, Automobile Radiator Cleaners and Rust Preventatives, Fuel Oil Storage Tank Cleaner, Drain Pipe Cleaner, and Boiler Repair Compound.
Claims use since Jan. 15, 1938.

Ser. No. 405,494. GENERAL CHEMICAL COMPANY, New York, N. Y. Filed Apr. 20, 1938.



For Lye.
Claims use since January, 1927.

Ser. No. 406,729. "PEGENE" PRÄPARATENGESELLSCHAFT M. B. H., Berlin, Germany, assignor to Dr. Rudolf Reiss, Rheumasan-und Lenicet-Fabrik, Berlin, Germany, a firm. Filed May 25, 1938.

Optimed

For Pharmaceutical Preparation for Treatment of Obesity.
Claims use since Mar. 4, 1929.

Ser. No. 410,473. HERMAN NIERE, St. Louis, Mo. Filed Sept. 12, 1938.



For Termites Destroying Paste.
Claims use since Sept. 20, 1937.

Ser. No. 413,955. OSMOSE WOOD PRESERVING CO. OF AMERICA, INC., Buffalo, N. Y. Filed Dec. 17, 1938.

OSMOPLASTIC

For Chemical Compositions for Impregnating and Preserving Wood.
Claims use since Jan. 18, 1935.

Ser. No. 414,590. CHRYSLER CORPORATION, Highland Park, Mich. Filed Jan. 7, 1939.

MoPAR

For Fluid Medium for Hydraulic Systems and Devices, Anti-Freezing Solution, Anti-Corrosion Solution.
Claims use since Aug. 1, 1937.

Ser. No. 415,045. H. LUNDBECK & Co., Copenhagen, Denmark. Filed Jan. 20, 1939.

EPICUTAN

For Preparation for the Treatment of Cuts, Bruises, Burns, Sunburn, Skin Diseases, Anaemia, Itch Wounds, Surgical Wounds, Varicose Wounds, Ulcus Cruris, Eczematous Wounds, Skin-Transplanting Wounds, Decubital Sores, Gangrenous Wounds, Bone Fractures; Universal Growth Promoting Preparations and Feeding Substratum for Biological Cultures.
Claims use since Nov. 21, 1938.

Ser. No. 415,217. THE FYR-FYTER COMPANY, Dayton, Ohio. Filed Jan. 25, 1939.

FYTER

For Chemicals Used as Charges for Fire Extinguishers, as Constituents Thereof, as Anti-Freeze and Freezing Temperature Depressant Materials, and as Insecticides.
Claims use since Mar. 18, 1916.

Ser. No. 415,268. SMITH & GREGORY, Amarillo, Tex. Filed Jan. 26, 1939.

S-G PLATEX

For Metal Coating Preparation.
Claims use since Nov. 3, 1938.

Ser. No. 415,421. STANDARD CHEMICAL MFG. CO., Omaha, Nebr. Filed Jan. 30, 1939. Under 10-year proviso.

STANDARD

For Granular Mineral to be Mixed with Live Stock Feed for Tonic Purposes, Medicated Food Containing Yeast for Use as a Hog Regulator, Inhalant for Use in the Treatment of the Upper Respiratory Tract of Hogs and Poultry, a Preparation for Use in the Treatment of Hogs for Worms, Necro, Scours and Indigestion and as a Tonic for Poultry, Tablets for Use in the Treatment of Necro in Hogs, a Preparation for Use in the Treatment of Scour in Pigs and Calves, a Preparation for Use in the Treatment of Mange on Hogs, Preparations for Use in the Treatment of Hogs for Worms, Pills for Use in the Treatment of Poultry for Worms, a Preparation for Use in Drinking water for the Treatment of Poultry for Intestinal Disorders and for the External Treatment of Roup, in the Early Stages, Canker, Chicken Pox, Sore Heads and Frosted Combs, a Tonic to be Taken Internally by Hogs and Poultry, Gall Salve for the Treatment of Sores and Cuts on Live Stock, a Dusting Powder for Use in the Treatment of Sores and Cuts on Live Stock, and a Preparation for the Treatment of Horses for Worms.
Claims use since 1886.

Ser. No. 415,765. HARRY CHAMPLIN, Beverly Hills, Calif. Filed Feb. 8, 1939.

TIRONAMIN "C"

(CHAMPLIN)

The name "Champlin" is disclaimed apart from the mark.
For Photographic Accelerator and Hardening Agent for Fine Grain Developers.
Claims use since Sept. 7, 1938.

Ser. No. 416,506. FACE CONTOUR, INC., New York, N. Y. Filed Feb. 28, 1939.

FORMULA BY *Face Contour*
730 FIFTH AVENUE · N.Y.C.

Applicant disclaims the terms "Formula" and "730 Fifth Avenue, N. Y. C."
For Cleansing facial Cream.
Claims use since April, 1936.

Ser. No. 416,807. MASTER LABORATORIES, INC., Omaha, Nebr. Filed Mar. 8, 1939.

DOGTONE

For Medical Preparation (Tonic and for the Prevention and Treatment of Canine Black Tongue and Anemia) for Dogs and Other Animals.
Claims use since Jan. 11, 1938.

Ser. No. 416,823. WEST DISINFECTING CO., Long Island City, N. Y. Filed Mar. 8, 1939.

RODITE

For Rat Exterminator.
Claims use since Dec. 22, 1938.

Ser. No. 416,824. ALBERT WITTE, Evanston, Cincinnati, Ohio. Filed Mar. 8, 1939.

EUREKA
FIRE BOX COMPOUND
ALBERT WITTE

The words "Fire Box Compound" and "Albert Witte" are disclaimed apart from the mark.
For Combination of Several Chemical Substances in Powder Form, Used on a Hot Fire to Eliminate Carbon and Soot-Scale From Boilers.
Claims use since Nov. 1, 1932.

Ser. No. 417,498. JOSEPH LAVER, Paris, France. Filed Mar. 25, 1939.

STOMALUMINE

For Pharmaceutical Products, Medicinal Products, Particularly Products for Treatment of Hypochlorhydria, Gastritis, Gastralgia, Ulcer, Intestinal Troubles and Ailments Resulting Therefrom.
Claims use since 1935.

Ser. No. 417,591. LOUIS E. SELEY, Brooklyn, N. Y. Filed Mar. 28, 1939.

HERVEEN

The representation of the container is disclaimed apart from the mark.
For Refrigerant.
Claims use since Feb. 28, 1939.

Ser. No. 417,768. MONROE CHEMICAL COMPANY, Quincy, Ill. Filed Apr. 1, 1939.

Bath-Bloom

For Perfumed Bath Preparation in the Nature of a Water Softener and a Bubble or Foam Producing Compound.
Claims use since Mar. 10, 1939.

Ser. No. 417,874. I. G. FARBENINDUSTRIE AKTIENGESELLSCHAFT, Frankfort-on-the-Main, Germany. Filed Apr. 5, 1939.

DISMULGAN

For Emulsion Breakers and Emulsion Inhibitors.
Claims use since Feb. 17, 1939.

Ser. No. 418,083. P. M. D. LABORATORIES, INC., Los Angeles, Calif. Filed Apr. 8, 1939.

P
PMD
D

For Pharmaceutical Preparation for Relief of Gas and Indigestion Due to Hyperacidity.
Claims use since Mar. 13, 1939.

Ser. No. 418,131. CALED PRODUCTS COMPANY, INC., Cottage City, Brentwood, Md. Filed Apr. 12, 1939.

Plezure

For Pharmaceutical Preparations—Namely, Skin Cream, Shampoo, Permanent Wave Lotion, and Hand Lotion.
Claims use since June 1, 1933.

Ser. No. 418,290. CHEMISCHE FABRIK JOH. A. BENCKISER G. M. B. H., Ludwigshafen-on-the-Rhine, Germany. Filed Apr. 15, 1939.

Fibrisol

For Chemical Preparations for Preventing Coagulation of Animal Blood.
Claims use since September, 1937.

Ser. No. 418,581. THE KNOX COMPANY, Los Angeles, Calif. Filed Apr. 22, 1939.

FORMODE

No claim is made to any color or to the outline of the label.
For Preparations Indicated in and for the Stimulation of Metabolism and the Reduction of Excessive Weight.
Claims use since July 1, 1937.

Ser. No. 418,582. THE KNOX COMPANY, Los Angeles, Calif. Filed Apr. 22, 1939.

SPANTEX

No claim is made to color or to the outline of a label.
For Preparations Indicated in and for the Treatment of Catarrh, Catarrhal Congestion, Colds, Coughs, Rheumatism, Rheumatic Pains, Muscular Aches and Pains; Tired, Aching and Swollen Feet; Deafness, Head Noises and All Other Symptomatic Manifestations of Catarrhal Congestion.
Claims use since Oct. 1, 1937.

Ser. No. 419,400. VICTORIA B. SWEENEY, doing business as Snug Anchorage Laboratory, Waterbury, Conn. Filed May 13, 1939.

SNUG
ANCHORAGE

No claim is made to the representation of the denture plate apart from the mark.
For Preparation to be Applied to Dentures for Effecting a Proper Fitting of the Denture Plate to the Gums.
Claims use since Nov. 15, 1938.

Ser. No. 420,132. DIXIE LABORATORIES, INC., Martinsville, Va. Filed June 3, 1939.

OINTORUB

For Medicinal Salve or Ointment to be Used by Local Application and for External Use Only.
Claims use since May 15, 1939.

Ser. No. 420,133. DIXIE LABORATORIES, INC., Martinsville, Va. Filed June 3, 1939.



The portrait is fanciful.

For Liniment Used in the Treatment of Muscular Aches and Pains, Tired and Aching Feet, Corns, Bunions, Insect Bites, Sunburn, Sprains, Stiff Joints, Cuts and Bruises.

Claims use since May 15, 1939.

Ser. No. 420,490. KRO-ZEL PRODUCTS, Plainfield, N. J. Filed June 14, 1939.

HANDS UP

No claim is made to the word "Hands" apart from the mark.

For Nail and Cuticle Conditioner.

Claims use since May 18, 1939.

Ser. No. 420,596. NATIONAL OIL PRODUCTS COMPANY, Harrison, N. J. Filed June 16, 1939.

Acidolate

For Sulfated and Sulfonated Organic Materials Adapted for Use in Cosmetic and Pharmaceutical Preparations, Including Skin Creams, Ointments, Cold Creams, Vanishing Creams, Hand Lotions, Shampoos, Soaps, Skin Preparations and for Industrial Uses Including Wetting, Emulsifying and Penetrating Agents and the Like.

Claims use since June 13, 1939.

Ser. No. 420,817. THE HARROWER LABORATORY, INC., Glendale, Calif. Filed June 22, 1939.

SYNTHESTRIN

For Medicinal Preparation for Use in Cases of Female Sex Hormone Deficiency.

Claims use since May 11, 1939.

Ser. No. 420,850. DESIDERIUS DE BESZEDITS, New York, N. Y. Filed June 23, 1939.

VEGESULIN

For Preparation for the Treatment of Diabetes.

Claims use since March, 1939.

Ser. No. 420,868. JOSEPH L. LIEBNER, Philadelphia, Pa. Filed June 23, 1939.

COHERO

For Soldering Paste.

Claims use since June 17, 1939.

Ser. No. 420,876. SAMUEL RUBIN, New York, N. Y. Filed June 23, 1939.

TIGRESS

For Perfume.

Claims use since Dec. 6, 1938.

Ser. No. 420,926. ALLIED PRODUCTS, INC., New York, N. Y. Filed June 26, 1939.

L'AFFAIRE

For Perfume and Toilet Water.

Claims use since June 23, 1939.

Ser. No. 420,970. ANTONIO PRADO RODRIGUEZ, doing business as Biosante Chemical Specialties, New York, N. Y. Filed June 26, 1939.

BYOSAN

For Medicinal Preparations Indicated in and for the Treatment of Constipation and Such Other Functional Disorders and Pathological Conditions in and for the Treatment of which it is Desirable or Necessary to Administer Laxatives, Purgatives, or Cathartics.

Claims use since Feb. 28, 1939.

Ser. No. 421,015. THE UPJOHN COMPANY, Kalamazoo, Mich. Filed June 27, 1939.

Cidicol

For Medicinal Substance for the Treatment of Coughs.

Claims use since May 31, 1939.

Ser. No. 421,063. BASIC REMEDIES COMPANY, INCORPORATED, Grand Rivers, Ky. Filed June 29, 1939.

Bareco

For Homeopathic Medicinal Preparations—Namely, Biochemic Cell Salts.

Claims use since Aug. 7, 1918.

Ser. No. 421,194. MIDI INC., Los Angeles, Calif. Filed July 1, 1939.

STARFORM

For Massage and Reducing Lotion.

Claims use since Mar. 15, 1939.

Ser. No. 421,298. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed July 5, 1939.

CARRADA

For Product Indicated as a Laxative and Cathartic.

Claims use since June 27, 1939.

Ser. No. 421,309. LANVIN PARFUMS, INC., Wilmington, Del., and New York, N. Y. Filed July 6, 1939.

CRESCENDO

For Perfumes.

Claims use since June 29, 1939.

CLASS 11

Inks and Inking Materials

Ser. No. 419,223. GENERAL PRINTING INK CORPORATION, New York, N. Y. Filed May 9, 1939.

SULLMANCO

For Printing Ink.

Claims use since 1912.

CLASS 12

Construction Materials

Ser. No. 408,359. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed July 9, 1938.

FREFLOTE

For Metallic Clips for Attachment of Building Boards and Used in Walls and Ceilings.

Claims use since December, 1937.

Ser. No. 417,149. UNITED STATES PLYWOOD CORPORATION, New York, N. Y. Filed March 16, 1939.

DE ORO

For Veneers and Plywood Panels.

Claims use since Mar. 14, 1938.

Ser. No. 418,993. TALCO ASPHALT AND REFINING COMPANY, Mount Pleasant, Tex. Filed May 2, 1939.

TALCO

For Paving and Roofing Asphalts

Claims use since Mar. 3, 1939.

CLASS 15

Oils and Greases

Ser. No. 418,119. BERNARD M. SOLOMON, doing business as Tankar Filling Stations, Montgomery, Ala. Filed Apr. 11, 1939.

TANKAR

For Fuel Oil.

Claims use since Sept. 1, 1933.

Ser. No. 419,875. THE PETROL CORPORATION, Los Angeles, Calif. Filed May 26, 1939.



For Gasoline.

Claims use since May 9, 1939.

CLASS 16

Paints and Painters' Materials

Ser. No. 419,385. JOHN LUCAS AND COMPANY, INCORPORATED, Philadelphia, Pa. Filed May 13, 1939.

TRIPLE-SEAL

The word "Seal" is disclaimed apart from the mark.

For Varnish Type Product To Be Used as a Sealer for Wood, Plaster, Cement, Composition, and Other Porous Surfaces.

Claims use since Mar. 3, 1939.

Ser. No. 419,852. CITIES SERVICE OIL COMPANY, Bartlesville, Okla. Filed May 26, 1939.

CITIES SERVICE

For Ready Mixed Paints, Primers, Varnishes, and Lacquers.

Claims use since May 16, 1939.

Ser. No. 419,853. CITIES SERVICE OIL COMPANY, Bartlesville, Okla. Filed May 26, 1939.

CITIES BOND

For Ready Mixed Paints, Primers, Varnishes, and Lacquers.
Claims use since May 16, 1939.

Ser. No. 419,854. CITIES SERVICE OIL COMPANY, Bartlesville, Okla. Filed May 26, 1939.

CITIES COTE

The word "Cote" is disclaimed apart from the mark.
For Ready Mixed Paints, Primers, Varnishes, and Lacquers.
Claims use since May 16, 1939.

Ser. No. 420,160. THE BLACK AND DECKER MANUFACTURING COMPANY, Towson, Md. Filed June 5, 1939.

LECTRO-LUSTRE

No claim is made to the word "Lustre" apart from the mark.
For Combined Polish and Cleaner for Automobiles.
Claims use since Apr. 14, 1939.

Ser. No. 420,309. THE BLACK AND DECKER MANUFACTURING COMPANY, Towson, Md. Filed June 9, 1939.

POWER-GLAZE

No claim is made to the word "Glaze" apart from the mark.
For Polish and Cleaner for Automobile Bodies.
Claims use since Apr. 14, 1939.

CLASS 17

Tobacco Products

Ser. No. 420,293. STEPHANO BROTHERS, Philadelphia, Pa. Filed June 8, 1939.

COVERED WAGON

For Smoking and Cigarette Tobacco.
Claims use since May 9, 1939.

Ser. No. 420,636. RAYMOND F. GRIFFITH, doing business as Colonial Tobacco Company, St. Louis, Mo. Filed June 17, 1939.

RUM JUG



For Smoking Tobacco.
Claims use since Dec. 20, 1938.

CLASS 20

Linoleum and Oiled Cloth

Ser. No. 418,661. WADSWORTH & WOODMAN COMPANY, New York, N. Y. Filed Apr. 24, 1939.

PINE TREE

For Oilcloth, Enameled Oilcloth, and Pyroxylin Coated Oilcloth.
Claims use since 1925.

Ser. No. 418,662. WADSWORTH & WOODMAN COMPANY, New York, N. Y. Filed Apr. 24, 1939.

PINE TREE OIL CLOTH

The words "Oil Cloth" are disclaimed apart from the mark.
For Oilcloth, Enameled Oilcloth, and Pyroxylin Coated Oilcloth.
Claims use since 1925.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 406,183. LYLE HAROLD HAYNES, Peoria, Ill. Filed May 10, 1938.

HAYNES RURALITE COMPANY

The expression "Haynes Company" is disclaimed except as shown.
For Electric Lighting Fixtures, Direct and Indirect Current, Electric Motors and Supports Therefor, and Electric Power Driven Kitchen Utensils, Such as Food Grinders, Egg Beaters, Food and Pastry Mixers.
Claims use since Feb. 5, 1938.

Ser. No. 406,943. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed May 31, 1938.

Marvel

For Electric Storage Batteries Especially Suitable for Internal Combustion Engines.
Claims use since Jan. 23, 1937.

Ser. No. 408,898. RED-BAR BATTERY COMPANY, doing business as Auto King Battery Mfg. Co., Dayton, Ohio. Filed July 25, 1938.

Auto King

The representation of the goods is disclaimed apart from the mark.
For Electric Storage Batteries and Battery Parts.
Claims use since July 1, 1938.

Ser. No. 418,018. TRIANGLE CONDUIT & CABLE CO., INC., Elmhurst, N. Y. Filed Apr. 8, 1939.

TRIANGLE
IDENTIFIED WIRE
SIZE - VOLTAGE - GRADE

The words "Size", "Voltage", and "Grade" and "Identified Wire" are disclaimed apart from the mark.
For Insulated Electric Wire of All Types, Including Specifically Armored Cable, Lead Armored Cable, Non-Metallic Sheathed Cable, Covered Neutral House Wire, Service Entrance Cables, Varnished Cambric Cables, Rubber Covered Building Wire, Rubber and Lead Building Wire, Bare Copper Wire, Slow-Burning Wire, Weatherproof Wire, Steel Taped Parkway Cable, Non-Metallic Parkway Cable, Power Cable, and Hard Service All Rubber Portable Cords and Cable.
Claims use since Oct. 10, 1938.

Ser. No. 418,433. THOMAS A. EDISON, INCORPORATED, West Orange, N. J. Filed Apr. 19, 1939. Under section 5b of the act of 1905 as amended in 1920.

EDISON

Applicant claims ownership of U. S. trade-mark registration Ct. #259,039, effected July 23, 1929, on the ground of exclusive use for 10-years next preceding Feb. 20, 1905.
For Electrical Switches and Electrical Relays.
Claims use since June 23, 1936.

Ser. No. 420,690. RANGETTE COMPANY, St. Louis, Mo. Filed June 19, 1939.

RANGETTE

For Electric Cook Stoves.
Claims use since June 13, 1939.

Ser. No. 420,698. STEWART-WARNER CORPORATION, Chicago, Ill. Filed June 19, 1939.

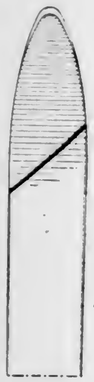
FIRESIDE

For Radio Receiving Sets.
Claims use since Apr. 18, 1939.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 420,159. S. L. ALLEN & CO., INC., Philadelphia, Pa. Filed June 5, 1939.



The trade-mark consists of a stripe extending obliquely across the upper surface of the ski near its upturned front end. No claim is made to the representation of the goods and the drawing is lined for shading.
For Skis.
Claims use since May 26, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 395,226. ELKHORN NOVELTY CO., Praise, Ky. Filed July 15, 1937.

H & H

For Fruit Jar Holder to Facilitate the Holding of a Fruit Jar to Prevent Damage or Breakage Thereof Upon the Removal of the Jar Closure.
Claims use since June 23, 1937.

Ser. No. 412,088. ECLIPSE LAWN MOWER COMPANY, Prophetstown, Ill. Filed Oct. 27, 1938.

TURFMASTER

For Hand and Power Lawn Mowers.
Claims use since Apr. 3, 1937.

Ser. No. 414,697. THE JEFFREY MANUFACTURING COMPANY, Columbus, Ohio. Filed Jan. 11, 1939.



The lining shown in the drawing is for the purpose of shading only.
For Equipment Such as a Liquid Container and Paddle Wheel or Other Agitating Means Particularly Used for the Flocculation of Turbid Water, Sewage, and Industrial Wastes.
Claims use since Nov. 3, 1938.

Ser. No. 418,121. TEXTILE MACHINE WORKS, Reading, Pa. Filed Apr. 11, 1939.



For Knitting Machines and Parts Thereof, and Accessories and Attachments Therefor, Comprising Spring Beard Needles, Needle Straightening Devices, Sinkers, Sinkerheads, Verge Plates, Dividers, Knock-Over Bits, Jacks, Jack Combs, Jack Springs, Loop Engaging Points, Needle Engaging Points, Welt Hooks, Welt Bars, Yarn Carriers, Yarn Boxes, Yarn Moistening Devices, Yarn Conditioning Equipment, Drip Aprons, Drip Pans, Friction Boxes, Friction Box Shoes, Transfer Bar Lifting Motion Mechanisms, Channel Irons, Course Counters, Pattern Chain Devices, Cam Shaft Brake Devices, Cam Shaft Balancing Cams, Loop Regulating Devices, Splicing Rocker Attachments, Fabric Take-Up Attachments, Take-Up Attachment Safety Stop Devices, Thread Tension Devices, Thread Tension Release Devices, Reinforced Selvedge Attachments, Yarn Carrier Arresting Devices, Carrier Rod Shock Absorbers, Friction Rod Cooling Devices, Selective Yarn Feeding Attachments, Universal Carrier Control Attachments, Horizontal Stripe Attachments, Lace and Mesh Attachments, Stop Devices for Mesh Attachments, Ravel Course Attachments, Shadow Clock Attachments, Lock Stitch and Non-Run Attachments, Idle Course Attachments, Loose Course Attachments, Plating Attachments, Splicing Blocks, Split Seam Attachments, Initial Marking Attachments, Covering Knives, Covering Knife Motion Attachments, Single Needle Narrowing Attachments, Speed Control Switches, Safety Stop Devices for Handwheel Shafts, Safety Drive Mechanisms for Handwheel Shafts, Safety Stop Devices for Coulier Mechanism, and Safety Release Devices for Narrowing Machines; Topping Machines, and Parts Thereof and Accessories Therefor Comprising Topping Points, Transfer Points, Knockover Bits, Transfer Bars, Needle Bars and Topping Tables; Driving Mechanisms for Loopers and Seamers, Looping Tables, Seaming Tables; Hosiery Expanding Examining Devices and Supporting Tables Therefor; Hosiery Stamping Machines and Stamping Tables Therefor; Hat and Garment Stamping Machines, Label Applying Devices; Hosiery Pairing Tables; Hosiery Dividing Racks; Legger Tables; Footer Tables; Hosiery Mending Tables; Hosiery Labelling Tables; Hosiery Wrapping Tables; Braiding Machines and Parts Thereof and Accessories Therefor Comprising Plain or Flat Braiders, Rotary Braiders, Tubular Braiders, Hercules Braiders, Diamond Braiders, Square Braiders, Cordage Braiders, Bi-Circle Braiders, Tubular Wire and Cable Braiders, Duplex Wire and Cable Braiders, Compound Wire and Cable Braiders, Double Deck Wire and Cable Braiders, Triple Deck Wire and Cable Braiders, Packing Braiders, Lace Machines, Steel Wire Braiders, Flat Steel Wire Braiders, Tubular Steel Wire Braiders, Winders, Doublers, Twisters, Spoolers, Take-Off Fixtures, Stands and Reels, Braiding and Strand Carriers, Tension Devices for Carriers, Plain Soutache Braiders, Plaited Soutache Braiders, Driving Tables for Regular Braiders, Driving Tables for Wire Braiders, Stripe Braiders, Cross Binding Braiders, Catheter Braiders, Vienna Oval Braiders, President Braiders, Coral Braiders, Fringe Braiders, Purl Edge Braiders, Mould Braiders, Straw Braiders, Fishline Braiders, Candlewick Braiders, Gas Tubing Braiders, Rubber Hose Braiders, Cord Braiders, Interlacing Braiders, Folded Raceway Braiders, Loop-Tubular Braiders, Necktie Braiders, Magnet Wire Winders, Annunciator Wire Winders, Telephone Cord Braiders, Rat Braiders, Braiders for Millinery Products, Bise Machines, Lapping Machines, Plaiting Machines, Spooling Machines and Devices, Tipping Machines, Twisting Machines, Gimp Machines, Bunching Machines, Stranding Machines, Jacquard Card Punching Devices, Separating Machines, Saturating Devices, Braid Spreading Machines, Fabric Sizing Machines, and Spool Stands; Pulleys; Portable Centrifugal Extractors, Drilling and Tapping Machines; Tools for Knitting and Braiding Machines; Jigs; Machine Drive Control Mechanisms; Clutch Drive Mechanisms; Bushings; Speed Control Devices; Machine Safety Stop Devices; and Machine Brake Devices.
Claims use since Oct. 2, 1917.

Ser. No. 420,480. THE GLEMBY COMPANY, INC., New York, N. Y. Filed June 14, 1939.

Cupid

For Powder Scoops Used for Scooping Face Powders and Other Comminuted Material.
Claims use since June 1, 1939.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 420,655. THE WATERBURY LOCK & SPECIALTY COMPANY, Milford, Conn. Filed June 17, 1939.

WALSCO

For Tape Measures.
Claims use since Oct. 15, 1938.

Ser. No. 420,675. THE HALOID COMPANY, Rochester, N. Y. Filed June 19, 1939.

HALO

For Light Sensitive Paper.
Claims use since Mar. 8, 1939.

Ser. No. 420,753. EASTMAN KODAK COMPANY, Jersey City, N. J., and Rochester, N. Y. Filed June 21, 1939

SUPERMATIC

For Photographic Shutters.
Claims use since May 25, 1939.

CLASS 27

Horological Instruments

Ser. No. 413,505. AISENSTEIN-WORONOCK & SONS, INC., New York, N. Y. Filed Dec. 6, 1938.

THE EMPIRE WATCH

No claim is made to the word "Watch" apart from the mark.
For Watches and Watch Cases.
Claims use since 1929.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 419,351. SWANK PRODUCTS, INC., Attleboro, Mass. Filed May 12, 1939.

DUO-GRAM

For Monograms and Other Character Mountings Made of Precious Metal or Plated With the Same for Mounting upon Articles for Personal Wear, Not Including Watches
Claims use since May 1, 1939.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 420,738. ARTHUR CLAY LEACH, doing business as Biff Manufacturing Company, Pueblo, Colo. Filed June 20, 1939.



For Straw Brooms, Whisk Brooms, Fiber Brooms, Hair Brooms, Push Brooms, Floor Brooms, Counter Brushes, Counter Dusters, Yarn Dusters, and Floor Mops.
Claims use since May 1, 1938.

Ser. No. 420,830. JAMES D. SCULLY, Philadelphia, Pa. Filed June 22, 1939.

WISPEE

For Barbers' Hair Dusting Brushes.
Claims use since June 13, 1939.

CLASS 36

Musical Instruments and Supplies

Ser. No. 420,693. J. P. SEEBURG CORPORATION, Chicago, Ill. Filed June 19, 1939.

WALL-O-MATIC

For Phonographs.
Claims use since Feb. 20, 1939.

Ser. No. 420,763. WM. R. GRATZ IMPORT COMPANY, New York, N. Y. Filed June 21, 1939.

PARAMOUNT

For Reeds for Musical Instruments.
Claims use since May 9, 1938.

CLASS 37

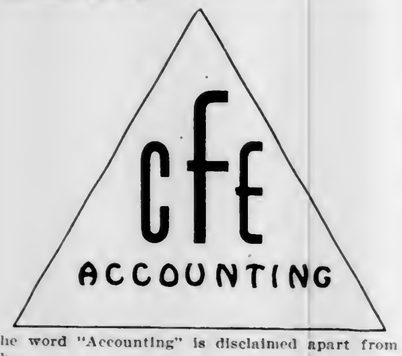
Paper and Stationery

Ser. No. 404,993. LEADER CARD WORKS, INC., Milwaukee, Wis. Filed Apr. 7, 1938.



No claim is made to the word "Announcements" apart from the mark shown.
For Blank Announcements, Envelopes, and Cards.
Claims use since Feb. 8, 1937.

Ser. No. 417,272. C. F. ELSBACH, San Francisco, Calif. Filed Mar. 20, 1939.



The word "Accounting" is disclaimed apart from the mark.
For Accounting Forms and Blanks.
Claims use since Jan. 29, 1939.

Ser. No. 420,511. ARCH CROWN TAG & STAMPING COMPANY, Newark, N. J. Filed June 15, 1939.



The word "Tags" is disclaimed apart from the mark.
For Tags.
Claims use since Apr. 3, 1939.

Ser. No. 420,733. UNITED WALL PAPER FACTORIES, INC., Chicago, Ill. Filed June 20, 1939.

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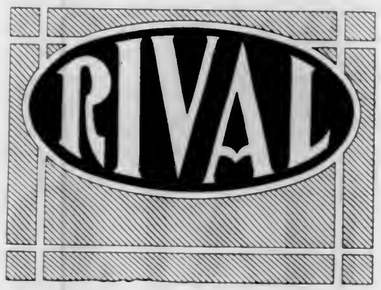
For Wall Paper.
Claims use since May 16, 1939.

Ser. No. 420,795. A. P. W. PAPER COMPANY, INC., Albany, N. Y. Filed June 22, 1939.



For Toilet Tissue.
Claims use since August, 1938.

Ser. No. 420,796. A. P. W. PAPER COMPANY, INC., Albany, N. Y. Filed June 22, 1939.



For Toilet Tissue.
Claims use since August, 1938.

Ser. No. 420,797. A. P. W. PAPER COMPANY, INC., Albany, N. Y. Filed June 22, 1939.



For Toilet Tissue.
Claims use since Nov. 14, 1929.

CLASS 38

Prints and Publications

Ser. No. 417,059. NATIONAL MODES, INC., New York, N. Y. Filed Mar. 14, 1939.

FASHION IN THE NEWS

For Fashion Periodical.
Claims use since Mar. 1, 1939.

Ser. No. 417,351. STENTOR PUBLISHING COMPANY, Philadelphia, Pa. Filed Mar. 21, 1939.

THE 19TH HOLE

For Monthly Magazine.
Claims use since Mar. 1, 1939.

Ser. No. 419,304. DAVID MCKAY COMPANY, Philadelphia, Pa. Filed May 11, 1939.

MAGIC COMICS

For Periodical Publication.
Claims use since Apr. 12, 1939.

Ser. No. 419,428. THE KEY PUBLISHING CO., INC., New York, N. Y. Filed May 15, 1939.

THE AMERICAN KEY

No claim is made to the word "American" apart from the mark.
For Printed Publication Issued Monthly.
Claims use since July, 1933.

Ser. No. 419,487. THE PARENTS' INSTITUTE, INC., New York, N. Y. Filed May 16, 1939.

WHERE-TO-BUY DIRECTORY

Applicant disclaims the word "Directory" apart from the mark.
For Column or Section in a Monthly Magazine.
Claims use since Apr. 20, 1939.

Ser. No. 419,850. CARTAGE EXCHANGE OF CHICAGO, INC., Chicago, Ill. Filed May 26, 1939.

ASSOCIATED CARTAGE INTERESTS

For Periodical Publication.
Claims use since 1920.

Ser. No. 419,948. CEMETERY LEGAL COMPASS, Los Angeles, Calif. Filed May 29, 1939.

CEMETERY LEGAL COMPASS

Applicant disclaims the words "Cemetery" and "Legal" except as shown.
For Periodical Publications Relating to Cemetery Law and Practice.
Claims use since July, 1936.

CLASS 39

Clothing

Ser. No. 390,523. THE FRANK H. LEE COMPANY, Danbury, Conn. Filed Mar. 25, 1937.

LEE

Applicant disclaims the word "Lee" except as shown.
For Men's and Women's Straw, Felt, and Wool Hats.
Claims use since Nov. 27, 1936.

Ser. No. 414,859. CAPITOL NECKWEAR COMPANY, Los Angeles, Calif. Filed Jan. 16, 1939.



For Neckties, Scarfs, Handkerchiefs, Suspenders, and Combination Sets of Any or All the Aforementioned Items.
Claims use since Mar. 1, 1937.

Ser. No. 415,801. STEINER-LIBERTY CORPORATION, Baltimore, Md. Filed Feb. 8, 1939.

UNIVERSAL

Snugger

For Night Robes and Pajamas for Men, Women, and Children.
Claims use since Jan. 6, 1939.

Ser. No. 416,836. BLOOMINGDALE BROS., INC., New York, N. Y. Filed Mar. 9, 1939.

Young-teen

For Children's Coats, Suits, Dresses, Hats; Shoes Made of Leather, Fabric, and Combinations Thereof; Underwear, Hosiery, Gloves Made of Leather and Fabric, Blouses, and Sweaters.
Claims use since Feb. 9, 1939.

Ser. No. 417,388. RÜEGGER & Co., Zofingen, Switzerland. Filed Mar. 22, 1939.

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For Men's Knitted Undervests, Undershirts, Drawers, Union Suits, Knee Caps, Girdles; Ladies' and Children's Undervests, Chemises, Camisoles, Spencers, Union-Suits, Knee-Caps, Panties, Knickers, Drawers, Girdles; Babies' Wrappers, Caps, Leggings, Rompers, Creepers, Jackets; Ladies' and Children's Bed-Jackets.
Claims use since 1926.

Ser. No. 418,111. B. MAIMON AND SONS, INCORPORATED, Philadelphia, Pa. Filed Apr. 11, 1939.



COAT

The word "Coat" is disclaimed apart from the mark. The picture is fanciful.
For Men's Topcoats.
Claims use since Mar. 25, 1939.

Ser. No. 418,668. THE GEORGE JAMES COMPANY, Boston, Mass. Filed Apr. 25, 1939.



The words "Flexible" and "Sole Leather" are disclaimed apart from the mark.
For Leather Soles and Leather Half Soles.
Claims use since Dec. 1, 1938.

Ser. No. 419,307. NEW JAUNTY SPORTSWEAR, INC., New York, N. Y. Filed May 11, 1939.



No claim is made to the word "Fabric" apart from the mark.
For Ladies' Coats, Suits, Skirts, Jackets, Blouses, Dresses, Hats, and Bathing Suits.
Claims use since April, 1938.

Ser. No. 419,322. THE ALLEN-A COMPANY, Bennington, Vt. Filed May 10, 1939.

HYGI-SOX

No claim is made to the word "Sox" apart from the mark.
For Hosiery.
Claims use since Apr. 14, 1939.

Ser. No. 419,494. NEIMAN-MARCUS COMPANY, Dallas, Tex. Filed May 17, 1939.

Deborah

For Children's Clothes—Namely, Dresses, Coats, Outer Skirts, and Jackets.
Claims use since Mar. 24, 1939.

Ser. No. 419,524. THE MODE KNITTING MILLS, INC., Chicago, Ill. Filed May 17, 1939.

Poodle MITT

The right to the exclusive use of the word "Mitt" is disclaimed.
For Knitted Gloves and Mittens.
Claims use since May 1, 1939.

Ser. No. 419,772. SEYMOUR-AVERY MANUFACTURING COMPANY, Chicago, Ill. Filed May 24, 1939.

Semoray "Vee-uP" The PERFECT FIT

The words "The Perfect Fit" are disclaimed apart from the mark.
For Ladies' and Children's Slips.
Claims use since Jan. 1, 1939.

Ser. No. 420,053. GLIX-BRAND CO., INC., Pittsfield, Mass. Filed June 1, 1939.

Slack-O-Jama

No claim is made to the word "Slack" apart from the mark.
For Ladies', Women's, Misses', and Children's Sleeping and Lounging Pajamas Made of Silk, Cotton, Rayon, and Wool, and/or Mixtures of Such Fabrics.
Claims use since April, 1937.

Ser. No. 420,062. KAUFMANN DEPARTMENT STORES, INC., Pittsburgh, Pa. Filed June 1, 1939.

babette

For Dresses, Frocks, Suits, Coats, Cloaks, and Wraps for the Use of Women, Misses, and Children.
Claims use since Feb. 15, 1938.

Ser. No. 420,077. A. J. TOWER COMPANY, Boston, Mass. Filed June 1, 1939.



FISH BRAND

No claim is made to the word "Brand" apart from the mark.
For Rubber-Coated Garments—Namely, Jackets, Coats, Pants, and Aprons for Men and Women.
Claims use since Dec. 15, 1938.

Ser. No. 420,084. L. BAMBERGER & Co., Newark, N. J. Filed June 2, 1939.

SUBURBANAIRE

For Women's and Misses' Gloves Made of Leather, Fabric, or Combinations Thereof, Coats, Suits, Dresses, Skirts, Blouses, Hats, and Belts for Outer Wear.
Claims use since May 22, 1939.

Ser. No. 420,250. C. A. GROSVENOR SHOE CO., Worcester, Mass. Filed June 7, 1939.

SHUFFLERS

For Men's Leather Slippers.
Claims use since Jan. 6, 1939.

Ser. No. 420,317. GIBBERMAN BROS. & Co., Chicago, Ill. Filed June 9, 1939.



For Men's and Boys' Suits, Overcoats, and Top Coats.
Claims use since May, 1938.

Ser. No. 420,318. GIBBERMAN BROS. & Co., Chicago, Ill. Filed June 9, 1939.



For Men's and Boys' Suits, Overcoats, and Top Coats.
Claims use since January, 1936.

Ser. No. 420,319. THE H. W. GOSSARD CO., Chicago, Ill. Filed June 9, 1939.

Hourown

For Corsets, Girdles, and Combination Corsets and Brassières.
Claims use since May 26, 1939.

Ser. No. 420,357. AMOSKEAG PAJAMA CO., INC., Manchester, N. H. Filed June 10, 1939.

AMOSKEAG

For Pajamas, Nightshirts, and Underwear for Men, Women, and Children.
Claims use since Feb. 23, 1939, on pajamas and nightshirts; since June 3, 1939, on underwear.

Ser. No. 420,375. INTERWOVEN STOCKING COMPANY, New Brunswick, N. J. Filed June 10, 1939.

Interwoven
SOFTIES

For Hosiery.
Claims use since May 26, 1939.

Ser. No. 420,418. LA CROSSE RUBBER MILLS CO., La Crosse, Wis. Filed June 12, 1939.

CLOPPERS

For Rubbers or Overshoes Made of Rubber or Partly of Rubber.
Claims use since Apr. 13, 1939.

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 406,495. CALLAWAY MILLS, La Grange, Ga. Filed May 19, 1938.



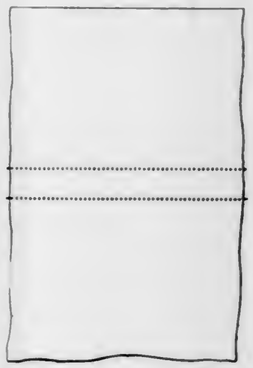
The trade-mark consists of two pairs of black strands interwoven with a fabric of generally white or light color, the strands of each pair being adjacent each other and the pairs being spaced from each other near one edge of the fabric. No claim is made to the representation of the goods.
For Textile Fabrics—Namely, Cotton Apron Duck, Cover Duck, and Cover Cloth.
Claims use since 1929.

Ser. No. 406,496. CALLAWAY MILLS, La Grange, Ga. Filed May 19, 1938.



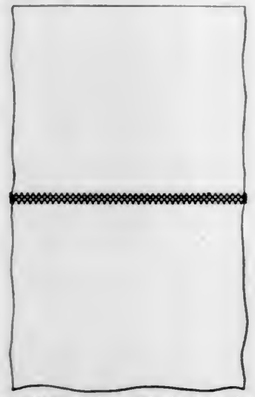
No claim is made to the representation of the goods. The trade-mark consists of two black strands interwoven adjacent each other in a fabric of generally white or light color and spaced from one edge of the fabric.
For Laundry Textile Fabrics—Namely, Cover Duck in the Piece.
Claims use since 1929.

Ser. No. 406,499. CALLAWAY MILLS, La Grange, Ga. Filed May 19, 1938.



Trade-mark consists of a pair of dark strands interwoven in a fabric of distinctly lighter color and spaced adjacent each other and from one edge of the fabric. No claim is made to the representation of the goods.
For Textile Fabrics—Namely, Cotton Cover Cloth in the Piece.
Claims use since 1929.

Ser. No. 406,500. CALLAWAY MILLS, La Grange, Ga. Filed May 19, 1938.



The mark consists of four black strands interwoven adjacent each other in a fabric of distinctly lighter color and spaced from one edge of the fabric. No claim is made to the representation of the goods.
For Textile Fabrics—Namely, Cover Duck in the Piece.
Claims use since 1929.

Ser. No. 415,694. BEACON MANUFACTURING COMPANY, Swannanoa, N. C. Filed Feb. 7, 1939.

Merlin

The word "Merlin" is the name of a fictitious character in the "Tales of King Arthur's Court."
For Blankets Made of Cotton or Cotton and Wool.
Claims use since May 1, 1933.

Ser. No. 417,565. COHN-HALL-MARX CO., New York, N. Y. Filed Mar. 28, 1939.

Hall-Marked Fabrics

Applicant disclaims the right to the exclusive use of the word "Fabrics."
For Cotton, Rayon, Acetate and/or Silk Piece Goods.
Claims use since Mar. 3, 1930.

Ser. No. 419,361. ALPREN-LEVINTHAL CORP., New York, N. Y. Filed May 13, 1939.

"CHU CHU"

For Piece Goods Consisting in Whole or in Part of Pure or Weighted Silk, Rayon, Synthetic Yarn, or Wool.
Claims use since Apr. 6, 1939.

Ser. No. 420,221. THE FAIR, Chicago, Ill. Filed June 6, 1939.

THE FAIR
STAR
SHEET

The word "Sheet" is disclaimed except as shown.
For Sheets and Pillow Cases.
Claims use since Apr. 20, 1936.

Ser. No. 420,828. NYE-WAIT COMPANY, INC., Auburn, N. Y. Filed June 22, 1939.

"The Qualitone Line"

For Rugs and Carpets.
Claims use since June 1, 1939.

Ser. No. 420,990. COHN-HALL-MARX CO., New York, N. Y. Filed June 27, 1939.

CHARCOAL

For Cotton, Rayon, Acetate and/or Silk Piece Goods.
Claims use since May 15, 1939.

Ser. No. 421,011. RIVERSIDE & DAN RIVER COTTON MILLS, INC., Danville, Va. Filed June 27, 1939.

RIVERCREST

For Piece Goods Made of Cotton or Rayon and Wool or a Combination of Cotton, Rayon, and Wool.
Claims use since May 2, 1939.

CLASS 43

Thread and Yarn

Ser. No. 420,219. CLIFTON YARN MILLS, INC., Clifton Heights, Pa. Filed June 6, 1939.

Stitch-Rite Brand



No claim is made to the words "Stitch-Rite Brand" apart from the mark.
For Thread.
Claims use since Dec. 30, 1938.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 400,470. REMINGTON RAND INC., Buffalo, N. Y. Filed Dec. 4, 1937. Under section 5b of the act of 1905 as amended in 1920.

REMINGTON

For Massage Appliances, Nail Trimmers, and Buffers.
Claims use since May 18, 1937.

Ser. No. 417,231. C. H. F. MULLER AKTIENGESELLSCHAFT, Berlin, Germany. Filed Mar. 18, 1939.



For Ray Apparatus for Examination Purposes and Ray Apparatus for Irradiation, Including X-Ray Apparatus and Supplies Therefor.
Claims use since July 1, 1938.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 399,757. GRAY & COMPANY, Portland, Oreg. Filed Nov. 15, 1937.



The drawing is lined for black, yellow, and red.
For Maltless, Nonalcoholic Beverages Sold as Soft Drinks, and Syrups and Extracts for Making the Same.
Claims use since Nov. 1, 1934.

Ser. No. 420,825. K. C. LOVE, doing business as Dr. Pepper-Love Bottling Co., Muskogee, Okla. Filed June 22, 1939.



No claim is made to the word "Beverages."
For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks, and Syrups, Extracts, and Flavors Used in Making the Same.
Claims use since Apr. 14, 1939.

Ser. No. 420,885. THE PEN-SA SALES CO., Union, N. J. Filed June 26, 1939.



For Soft Drinks and Carbonated Beverages and Syrups and Concentrates for Making the Same.
Claims use since May 19, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 393,535. HARDIN'S BAKERY, Tuscaloosa, Ala. Filed June 2, 1937.



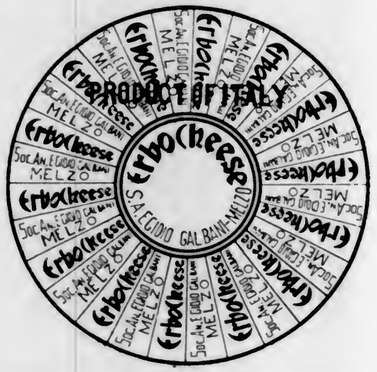
The drawing is lined for the color red.
For Sliced and Unsliced Loaf Bread.
Claims use since February, 1937.

Ser. No. 397,384. SOC. AN. EGIDIO GALBANI, Melzo, Milan, Italy. Filed Sept. 13, 1937.

"ERBO CHEESE,,
SOC. AN. EGIDIO GALBANI-MELZO

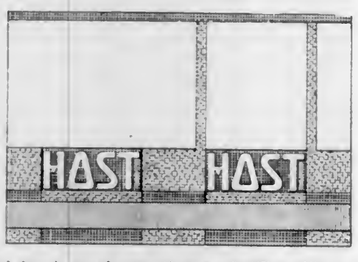
All wording except "Erbo" is disclaimed apart from the mark.
For Cheese.
Claims use since Mar. 23, 1937.

Ser. No. 397,385. SOC. AN. EGIDIO GALBANI, MELZO, Milan, Italy. Filed Sept. 13, 1937.



All wording except "Erbo" and the applicant's name is disclaimed apart from the mark.
For Cheese.
Claims use since Mar. 23, 1937.

Ser. No. 403,788. V. R. SMITH, doing business as V. R. Smith Olive Company, Lindsay, Calif. Filed Mar. 7, 1938.



No claim is made to the word "Brand" or to the representation of a label apart from the mark. The drawing is lined for black, gold, and red.
For Canned Olives.
Claims use since Mar. 1, 1937.

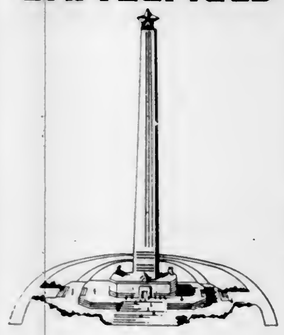
Ser. No. 404,488. THE QUAKER OATS COMPANY, Chicago, Ill. Filed Mar. 25, 1938.

LIFE

For Breakfast Cereals.
Claims use since Dec. 10, 1937.

Ser. No. 409,762. CLEVELAND COFFEE COMPANY, Houston, Tex. Filed Aug. 19, 1938.

BATTLEFIELD



For Coffee and Tea.
Claims use since June 1, 1938.

Ser. No. 410,002. PECHEUR LOZENGE COMPANY, INC., Brooklyn, N. Y. Filed Aug. 26, 1938.

Peco

For Candy in Lozenge or Cigarette Form.
Claims use since Apr. 1, 1938.

Ser. No. 410,037. CHARLES LEVY, Paterson, N. J. Filed Aug. 27, 1938.



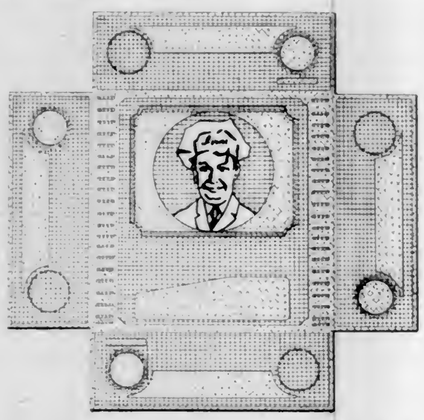
The drawing is lined to represent red color, and dotted to represent gold.
For Table Syrups.
Claims use since December, 1931.

Ser. No. 410,698. LEE K. MAN, doing business as Chue Lung & Co., Los Angeles, Calif. Filed Sept. 17, 1938.



The non-Latin characters in the drawing may be translated as follows: "Automatic Pistol".
For Soy, Meat Sauce, and Pickles.
Claims use since January, 1921.

Ser. No. 413,226. J. S. IVINS' SON, INC., Philadelphia, Pa. Filed Nov. 28, 1938.



The picture is fanciful. The drawing is lined for black and orange. The representation of the carton is disclaimed apart from the mark.
For Spiced Wafers.
Claims use since Aug. 14, 1932.

Ser. No. 418,806. W. F. BRADLEY, doing business as Hidden Gold Canning Company, National City, Calif. Filed Apr. 28, 1939.

Hidden Gold

For Canned Citrus Juices and Vegetable Juices for Food Purposes.
Claims use since 1932.

Ser. No. 418,932. MARITIME MILLING CO. INC., Buffalo, N. Y. Filed May 1, 1939.

HUNT CLUB DIAMONDS

Applicant is owner of registration #344,267 dated Mar. 16, 1937.
For Dog Food.
Claims use since Aug. 15, 1938.

Ser. No. 419,355. MAY WAY MILLS, INC., Kansas City, Mo. Filed May 12, 1939.

FEED THE MAYWAY
Pen & Laboratory tested

No claim is made to the words "Feed The" and "Pen & Laboratory Tested" apart from the mark.
For Feed for Cattle, Poultry, and Hogs.
Claims use since Oct. 1, 1938.

Ser. No. 419,414. HOWARD F. BOEKE, doing business as State Sales Co., Des Moines, Iowa. Filed May 15, 1939.

SEAMANA

For Live Stock and Poultry Feeds.
Claims use since Apr. 5, 1939.

Ser. No. 419,445. RED DOT FOODS, INC., Madison, Wis. Filed May 15, 1939.



The term "Potato Chips" and the phrase "Dry and Crisp as the Desert Air" are disclaimed.
For Potato Chips.
Claims use since Apr. 1, 1938.

Ser. No. 419,506. FARMCRAFT FOODS, INC., Long Island City, N. Y. Filed May 17, 1939.

FARM-FOOD

The word "Food" is disclaimed apart from the mark.
For Cheese.
Claims use since October, 1935.

Ser. No. 419,672. MERMAID PRODUCTS CORPORATION, Chicago, Ill. Filed May 22, 1939.



No claim is made to the words "Trade Mark" and "Fish Sausages" and the representation of the sausages apart from the mark.
For Fish Sausages.
Claims use since May 8, 1939.

Ser. No. 419,738. STERILIZED PRODUCTS CORPORATION, New York, N. Y. Filed May 23, 1939.

READY-TO-FREEZE
BRAND



The drawing is lined for red. Applicant disclaims exclusive use of the words "Ready-To-Freeze" and "Brand" apart from the mark.
For Food Product—Namely, a Mixture for Making Ice Cream.
Claims use since May 15, 1939.

Ser. No. 419,804. H. C. H. Co., Sauk City, Wis. Filed May 25, 1939.



The words "Homogenized Vitamin D" are disclaimed apart from the mark.
For Milk Powder.
Claims use since Nov. 1, 1938.

Ser. No. 420,572. ACME PACKING COMPANY, Boston, Mass. Filed June 16, 1939.

Tabby

For Cat Food.
Claims use since Oct. 14, 1938.

Ser. No. 420,597. NEW ENGLAND CONFECTIONERY COMPANY, Cambridge, Mass. Filed June 16, 1939.

DOUBLE - HEADER

For Candy.
Claims use since June 1, 1939.

Ser. No. 420,674. A. C. L. HAASE COMPANY, St. Louis, Mo. Filed June 19, 1939.

MAGIC CIRCLE

For Cherries in Glass, Canned Stringless Beans, Canned Peas, Canned Tomato Puree, Catsup, and Chili Sauce.
Claims use since Sept. 30, 1938.

Ser. No. 420,710. F. V. BIRBECK, Watsonville, Calif. Filed June 20, 1939.

WILDFIRE

For Fresh Vegetables.
Claims use since May 29, 1939.

Ser. No. 420,718. GUMAKERS OF AMERICA, INC., Clifton Heights, Pa. Filed June 20, 1939.



SKIPPY

The portrait appearing on the drawing is fanciful.
For Chewing Gum.
Claims use since June 7, 1939.

Ser. No. 420,757. GIROUX COMPANY, INC., New York, N. Y. Filed June 21, 1939.

NON PLUS

Non-Fattening Substitute for French Dressing.
Claims use since Apr. 20, 1939.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 426,638. J. KINDERMAN & SONS, Philadelphia, Pa. Filed June 17, 1939.

IT'S A KNOCK-OUT

For Sticky Fly Paper.
Claims use since February, 1938.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 15, 1939

370,022. BEER. THE BURGER BREWING COMPANY, Cincinnati, Ohio.
Filed August 5, 1936. Serial No. 381,835. PUBLISHED AUGUST 24, 1937. Class 48.

370,023. PIECE GOODS OF WOOL OR PART WOOL OR COMBINED WOOL AND OTHER FIBROUS MATERIALS, SUCH AS COTTON, SILK, AND RAYON. SEYMOUR S. GOLDEN, doing business as Seymour S. Golden Co., New York, N. Y.
Filed March 18, 1937. Serial No. 390,208. PUBLISHED JUNE 6, 1939. Class 42.

370,024. DRESSES, COATS, OUTER SKIRTS AND HATS FOR WOMEN AND CHILDREN, WOOL GLOVES, SOCKS, STOCKINGS, AND SCARFS. FARMERS FEDERATION INC., Asheville, N. C.
Filed March 29, 1937. Serial No. 390,642. PUBLISHED JUNE 6, 1939. Class 39.

370,025. GELATIN DESSERT PREPARATION AND A PUDDING PREPARATION. HAROLD HAIN, doing business as Hain Pure Food Co., Los Angeles, Calif.
Filed May 18, 1937. Serial No. 392,924. PUBLISHED JUNE 6, 1939. Class 46.

370,026. BEEF CATTLE. WILLIAM A. BRAIDEN, Antonito, Colo.
Filed October 12, 1937. Serial No. 398,385. PUBLISHED JUNE 6, 1939. Class 46.

370,027. CANNED VEGETABLES AND CANNED TOMATO PASTE. PASTENE & CO., INC., also doing business as Pagliaccio Products Co. and Splendor Products Co., New York, N. Y.
Filed January 21, 1938. Serial No. 402,201. PUBLISHED JUNE 6, 1939. Class 46.

370,028. BEER. CENTRAL BREWERIES, INC., East St. Louis, Ill.
Filed January 31, 1938. Serial No. 402,510. PUBLISHED JUNE 6, 1939. Class 48.

370,029. BRAKES AND PARTS THEREOF FOR INDUSTRIAL MACHINERY. EMPIRE ELECTRIC BRAKE CORPORATION, Dover, Del.
Filed February 5, 1938. Serial No. 402,721. PUBLISHED MAY 3, 1938. Class 23.

370,030. NECKTIES. LUCILLA DE VESCOVI WHITMAN, New York, N. Y., assignor to Countess Mara, Inc., New York, N. Y., a corporation of New York.
Filed February 9, 1938. Serial No. 402,882. PUBLISHED MAY 30, 1939. Class 39.

370,031. MEN'S, WOMEN'S, AND CHILDREN'S NECKTIES AND CUT-OUT NECKTIE LININGS. DRAPESETTE NECKTIE CORPORATION, New York, N. Y.
Filed March 2, 1938. Serial No. 403,584. PUBLISHED MAY 30, 1939. Class 39.

370,032. PHONOGRAPH, COMBINATION RECORDING AND PROJECTING PHONOGRAPH, SUPPLIES AND ATTACHMENTS THEREOF. ELECTRO ACOUSTIC PRODUCTS CO., Fort Wayne, Ind.
Filed March 18, 1938. Serial No. 404,206. PUBLISHED JUNE 6, 1939. Class 36.

370,033. GAUGING DEVICES — NAMELY, PLUG GAGES, RING GAGES, AND THREAD GAGES. THE SHEFFIELD GAGE, CORPORATION, Dayton, Ohio.
Filed March 19, 1938. Serial No. 404,269. PUBLISHED JUNE 6, 1939. Class 26.

370,034. GAUGING DEVICES — NAMELY, PLUG GAGES, RING GAGES, THREAD GAGES, SNAP GAGES, SPLINE GAGES, AND SPECIAL GAGES FOR PRECISION MEASURING, CHECKING, AND COMPARING DIMENSIONS. THE SHEFFIELD GAGE CORPORATION, Dayton, Ohio.
Filed March 19, 1938. Serial No. 404,270. PUBLISHED JUNE 6, 1939. Class 26.

370,035. COAL. HICKORY GROVE COAL MINING CORPORATION, Rochester, N. Y.
Filed March 21, 1938. Serial No. 404,312. PUBLISHED MAY 30, 1939. Class 1.

370,036. INSULATED ELECTRICAL WIRES AND CABLES. GENERAL CABLE CORPORATION, New York, N. Y.
Filed March 31, 1938. Serial No. 404,703. PUBLISHED JUNE 6, 1939. Class 21.

370,037. COTTON PIECE GOODS AND WOVEN COTTON FABRICS, METAKLOTH COMPANY, Lodi, N. J.
Filed April 12, 1938. Serial No. 405,173. PUBLISHED JUNE 6, 1939. Class 42.

370,038. SYRUPS COMPRISED OF THE CONCENTRATED ESSENCE OF ALMOND USED FOR FLAVORING FOODS, SUCH AS PASTRIES, CANDIES, ETC. MANDEL ORTEGA, doing business as Mellow Brand Products Co., New York, N. Y.
Filed June 21, 1938. Serial No. 407,739. PUBLISHED JUNE 6, 1939. Class 46.

370,039. LEATHER BOOTS, SHOES, AND SLIPPERS FOR MEN, WOMEN, AND CHILDREN. COLT-CROMWELL COMPANY, INC., Stoughton, Mass.
Filed August 20, 1938. Serial No. 409,807. PUBLISHED FEBRUARY 14, 1939. Class 39.

370,040. LOUSE AND FLEA POWDER FOR LICE ON CATTLE AND FARM ANIMALS AND FLEAS AND LICE ON DOGS AND CATS AND POULTRY. HAROLD JAMES MURPHY, doing business as Murphy Products Co., Gouverneur, N. Y.
Filed September 9, 1938. Serial No. 410,405. PUBLISHED NOVEMBER 22, 1938. Class 6.

370,041. SPEEDOMETERS, FUEL QUANTITY GAUGES, MANIFOLD PRESSURE GAUGES, ALTIMETERS, SPEED INDICATORS, VERTICAL SPEED INDICATORS, TURN AND BANK INDICATORS, AND COMPASSES. PERAVIA S. A., Bern, Switzerland.
Filed September 17, 1938. Serial No. 410,705. PUBLISHED JUNE 6, 1939. Class 26.

370,042. MAGNETO GENERATORS, INCLUDING COILS AND SWITCH APPARATUS. PERAVIA S. A., Bern, Switzerland.
Filed September 17, 1938. Serial No. 410,706. PUBLISHED JUNE 6, 1939. Class 21.

370,043. LUBRICATING PUMPS NOT INCLUDING GREASE PUMPS, LUBRICATING TANKS, AIR COMPRESSORS, CAR WASHERS, CAR HOISTS AND LIFTS, AND GREASE PUMPS. THE WAYNE PUMP COMPANY, Fort Wayne, Ind.
Filed September 19, 1938. Serial No. 410,759. PUBLISHED JUNE 6, 1939. Class 23.

370,044. WATER SYSTEMS — NAMELY, SHALLOW WELL WATER SYSTEMS, PUMPING UNITS, DEEP WELL PUMPING HEADS, ETC. RED JACKET MANUFACTURING COMPANY, Davenport, Iowa.
Filed September 27, 1938. Serial No. 411,038. PUBLISHED JUNE 6, 1939. Class 23.

370,045. PAPER—NAMELY, PAPER NAPKINS, PAPER TOWELS, WAXED PAPER, AND TOILET TISSUE. MILL AGENTS AND DISTRIBUTORS, INC., Oakland, Calif.
Filed September 30, 1938. Serial No. 411,129. PUBLISHED MAY 30, 1939. Class 37.

370,046. IDENTIFICATION TAGS. BERNARD G. WARD and CLARENCE E. WERNITSCH, Portland, Oreg.
Filed October 17, 1938. Serial No. 411,727. PUBLISHED MAY 30, 1939. Class 50.

370,047. FRUIT ICES. MARLIN B. RASMUSSON, doing business as Frigid Process Company, Sacramento, Calif.
Filed October 19, 1938. Serial No. 411,793. PUBLISHED JUNE 6, 1939. Class 46.

370,048. TOMATO PASTE, MACARONI, CANNED FISH, CANNED SOUPS, TOMATO SAUCE WITH MUSHROOMS, CHEESE, HOT CRUSHED RED PEPPERS, MEXICAN CECI GARBANZOS, CANNED VEGETABLES, CANNED TOMATOES. WILLIAM AMERISE, also doing business as Hazleton Macaroni Co., Hazleton, Pa.
Filed November 1, 1938. Serial No. 412,245. PUBLISHED JUNE 6, 1939. Class 46.

370,049. HOT WATER BOTTLES, FOUNTAIN SYRINGES, AND COMBINATION BOTTLE AND SYRINGE. FRED MEYER, INC., Portland, Oreg.
Filed November 12, 1938. Serial No. 412,652. PUBLISHED JUNE 6, 1939. Class 44.

370,050. WHISKIES, GIN, BRANDY, RUM, AND CORDIALS. MUNICIPAL LIQUOR STORES ASSOCIATION, Minneapolis, Minn.
Filed November 16, 1938. Serial No. 412,824. PUBLISHED JUNE 13, 1939. Class 49.

370,051. MITTENS AND GLOVES MADE OF KNITTED FABRIC. ROYAL KNITTING MILLS, INC., Chicago, Ill.
Filed November 26, 1938. Serial No. 413,200. PUBLISHED MAY 9, 1939. Class 39.

370,052. REPLY CARD LETTERHEADS. EASTERN MANUFACTURING COMPANY, New York, N. Y.
Filed November 30, 1938. Serial No. 413,301. PUBLISHED MAY 30, 1939. Class 37.

370,053. MEN'S, WOMEN'S AND BOYS' NECKTIES. ARTHUR SIEGMAN, INC., New York, N. Y.
Filed November 30, 1938. Serial No. 413,322. PUBLISHED MAY 30, 1939. Class 39.

370,054. SPICES. H. SCHOENFELD & SONS, INC., New York, N. Y.
Filed December 5, 1938. Serial No. 413,488. PUBLISHED JUNE 6, 1939. Class 46.

370,055. RAINCOATS. FASHIONCRAFT, INC., Cambridge, Mass.
Filed December 17, 1938. Serial No. 413,932. PUBLISHED MAY 30, 1939. Class 39.

370,056. EGGS. THE LUCERNE CREAM AND BUTTER COMPANY, Oakland, Calif.
Filed December 19, 1938. Serial No. 413,996. PUBLISHED JUNE 6, 1939. Class 46.

370,057. ALCOHOLIC LIQUEURS. DISTILLERIE DE LA SUZE (SOCIÉTÉ ANONYME), Maisons-Alfort, France.
Filed December 24, 1938. Serial No. 414,184. PUBLISHED JUNE 6, 1939. Class 49.

370,058. ENGINE PISTONS. HEPWORTH & GRANDAGE LIMITED, Bradford, England.
Filed January 6, 1939. Serial No. 414,565. PUBLISHED JUNE 6, 1939. Class 23.

370,059. ELECTRIC DIRECTION SIGNALS FOR VEHICLES, AND SWITCHES FOR SUCH SIGNALS. AUTO RADIATOR MANUFACTURING CO., Chicago, Ill.
Filed January 9, 1939. Serial No. 414,617. PUBLISHED JUNE 6, 1939. Class 21.

370,060. COMBS. DRUGGISTS' SUPPLY CORPORATION, New York, N. Y.
Filed January 10, 1939. Serial No. 414,653. PUBLISHED JUNE 6, 1939. Class 40.

370,061. LADIES' SHOES MADE OF LEATHER, RUBBER, FABRIC, OR WOOD OR COMBINATIONS OF SAID MATERIALS. QUEEN QUALITY BOOT SHOP, INC., Washington, D. C.
Filed January 14, 1939. Serial No. 414,830. PUBLISHED MAY 30, 1939. Class 39.

370,062. CHEESE RENNET. JOHN HEINZKILL, doing business as John Heinzkill Soap Works, Appleton, Wis.
Filed January 18, 1939. Serial No. 414,950. PUBLISHED JUNE 6, 1939. Class 46.

370,063. ADULTS' HUNTING, FISHING, AND SPORTS CAPS, COATS, PANTS AND BREECHES, JACKETS, VESTS, COMBINATION LEATHER AND FABRIC SPORTS MITTENS, SKEET COATS AND JACKETS AND SKEET TROUSERS AND PANTS. RED HEAD BRAND COMPANY, Chicago, Ill.
Filed January 23, 1939. Serial No. 415,139. PUBLISHED MAY 30, 1939. Class 39.

370,064. EGGS. THE LUCERNE CREAM AND BUTTER COMPANY, also doing business as Lucerne Cream and Butter Company, Oakland, Calif.
Filed January 30, 1939. Serial No. 415,404. PUBLISHED JUNE 6, 1939. Class 46.

370,065. CALCULATING AND ADDING MACHINES. BRUNSVIGA-MASCHINENWERKE GRIMME, NATALIS & CO. AKT.-GES., Brunswick, Germany.
Filed February 4, 1939. Serial No. 415,581. PUBLISHED JUNE 6, 1939. Class 26.

370,066. OVERALLS, SHIRTS, AND HUNTING APPAREL—NAMELY, COATS AND PANTS, CAPS, LEGGINGS, AND PUTTEES, NOT MADE OF HICKORY FABRICS. HICKORY OVERALL COMPANY, Hickory, N. C.
Filed February 4, 1939. Serial No. 415,595. PUBLISHED MAY 30, 1939. Class 39.

370,067. LEATHER AND FABRIC GLOVES. SERFIS GLOVE CORP., New York, N. Y.
Filed February 10, 1939. Serial No. 415,918. PUBLISHED MAY 30, 1939. Class 39.

370,068. WOMEN'S HATS. JOHN B. STETSON COMPANY, Philadelphia, Pa.
Filed February 11, 1939. Serial No. 415,966. PUBLISHED APRIL 25, 1939. Class 39.

370,069. CANNED TAMALES. GEBHARDT CHILI POWDER COMPANY, San Antonio, Tex.
Filed February 13, 1939. Serial No. 415,983. PUBLISHED JUNE 6, 1939. Class 46.

370,070. MEN'S AND YOUNGER MEN'S CLOTHING—NAMELY, SUITS, COATS, PANTS, VESTS, TOPCOATS, AND OVERCOATS. MEADOW PARK CLOTHES, INC., New York, N. Y.
Filed February 14, 1939. Serial No. 416,014. PUBLISHED MAY 30, 1939. Class 39.

370,071. ELECTRIC RAZORS. HENRY T. SCHIFF, Chicago, Ill.
Filed February 16, 1939. Serial No. 416,113. PUBLISHED JUNE 6, 1939. Class 23.

370,072. LEATHER GARMENTS—NAMELY, LEATHER JACKETS, COATS, SPORTSWEAR JACKETS, WORK COATS, WORK COATS COMBINED WITH SHEEPSKIN LINING, AND WORK COATS COMBINED WITH WOOL LINING. RALPHS-PUGH COMPANY, INC., San Francisco, Calif.
Filed February 18, 1939. Serial No. 416,205. PUBLISHED MAY 30, 1939. Class 39.

370,073. FRESH CITRUS FRUIT. WARD DANIELS, Montalvo, Calif.
Filed February 20, 1939. Serial No. 416,250. PUBLISHED JUNE 6, 1939. Class 46.

370,074. PIECE GOODS COMPOSED WHOLLY OR MAINLY OF COTTON. THE YORKSHIRE DYEING & PROOFING CO. LIMITED, Middleton, near Manchester, England.
Filed February 21, 1939. Serial No. 416,303. PUBLISHED JUNE 6, 1939. Class 42.

370,075. COMMINUTED MATERIAL EMBODYING SILICATES. GARCO PRODUCTS INC., Butler, Pa.
Filed February 23, 1939. Serial No. 416,322. PUBLISHED MAY 30, 1939. Class 1.

370,076. RAYON PIECE GOODS. TABIN-PICKER & COMPANY, Chicago, Ill.
Filed February 23, 1939. Serial No. 416,347. PUBLISHED JUNE 6, 1939. Class 42.

370,077. SINGLE EDGE AND DOUBLE EDGE RAZORS AND RAZOR BLADES. THE NUTEX COMPANY, Philadelphia, Pa.
Filed February 24, 1939. Serial No. 416,381. PUBLISHED JUNE 6, 1939. Class 23.

370,078. CERAMIC INSULATORS FOR SPARKING PLUGS. LODGE PLUGS LIMITED, Rugby, England.
Filed February 27, 1939. Serial No. 416,469. PUBLISHED JUNE 6, 1939. Class 21.

370,079. BOTTLE CLOSURES. H. H. MARTIN PRODUCTS CORPORATION, Toledo, Ohio.
Filed February 27, 1939. Serial No. 416,470. PUBLISHED MAY 30, 1939. Class 50.

370,080. BRASSIÈRES, GIRDLES, AND SLIPS. SMOOTH-FIT BRASSIERE CO., INC., New York, N. Y.
Filed February 28, 1939. Serial No. 416,521. PUBLISHED JUNE 6, 1939. Class 39.

370,081. BRASSIÈRES, GIRDLES, AND SLIPS. SMOOTH-FIT BRASSIERE CO., INC., New York, N. Y.
Filed February 28, 1939. Serial No. 416,522. PUBLISHED JUNE 6, 1939. Class 39.

370,082. TOILET SETS COMPRISING THEIR CONTAINERS MADE OF LEATHER, LEATHER COMPOSITION, OR PAPIER MÂCHÉ, AND THEIR CONTENTS, AS COMBS, BRUSHES, MIRRORS, ETC. HERMES, S. A., Paris, France.
Filed March 1, 1939. Serial No. 416,561. PUBLISHED MAY 30, 1939. Class 40.

370,083. ARTICLES OF WEARING APPAREL FOR CHILDREN—NAMELY, PLAY SUITS, SUN SUITS, SHORT PANTS, LONG PANTS, SHIRTS, BLOUSES, MIDDIES, OVERALLS, RIDING BREECHES, JACKETS, JODHPURS, DRESSES, SLACKS, AND SUITS. BELL GARMENT MANUFACTURING CORPORATION, San Antonio, Tex.
Filed March 4, 1939. Serial No. 416,678. PUBLISHED MAY 30, 1939. Class 39.

370,084. ELECTRIC LAMPS—NAMELY, FLOOR LAMPS, BRIDGE LAMPS, TABLE LAMPS, BOUDOIR LAMPS. EPCO MANUFACTURING COMPANY, INC., South Bend, Ind.
Filed March 8, 1939. Serial No. 416,797. PUBLISHED JUNE 6, 1939. Class 21.

370,085. SHOE LACES. MITCHELLACE, INCORPORATED, Portsmouth, Ohio.
Filed March 8, 1939. Serial No. 416,811. PUBLISHED JUNE 6, 1939. Class 40.

370,086. HAIR WAVE TURBANS. JOSEPH S. LEES, Los Angeles, Calif.
Filed March 9, 1939. Serial No. 416,857. PUBLISHED MAY 30, 1939. Class 40.

370,087. CASTINGS OF FERROUS METALS. ADIRONDACK FOUNDRIES AND STEEL, INC., Watervliet, N. Y.
Filed March 11, 1939. Serial No. 416,935. PUBLISHED JUNE 6, 1939. Class 14.

370,088. NONALCOHOLIC, NONCEREAL, MALTLESS BEVERAGES SOLD AS SOFT DRINKS, AND SYRUPS, EXTRACTS, AND FLAVORS USED IN MAKING THE SAME. THE YORKE BEVERAGES, INC., Yonkers, N. Y.
Filed March 11, 1939. Serial No. 417,073. PUBLISHED JUNE 6, 1939. Class 45.

370,089. CLOTHING—NAMELY, COATS, VESTS, TROUSERS, KNICKERBOCKERS, AND OVERCOATS FOR MEN AND BOYS. BERRY CLOTHING CORPORATION, New York, N. Y.
Filed March 15, 1939. Serial No. 417,079. PUBLISHED MAY 30, 1939., Class 39.

370,090. SYRUP EXTRACTED FROM COCOANUTS. ERNEST DONOUGHER, doing business as E. Donougher Cocoanut Products Co., San Francisco, Calif.
Filed March 15, 1939. Serial No. 417,085. PUBLISHED JUNE 6, 1939. Class 46.

370,091. PASTE IN THE NATURE OF A COMBINATION OF ALBUMEN AND A SWEETENING AGENT FOR USE IN THE MANUFACTURE OF CONFECTIONERY. BURGESS SUPPLY CO., INC., New York, N. Y.
Filed March 16, 1939. Serial No. 417,115. PUBLISHED JUNE 6, 1939. Class 46.

370,092. LADIES' HATS. PHIPPS HAT WORKS, INCORPORATED, New York, N. Y.
Filed March 16, 1939. Serial No. 417,141. PUBLISHED JUNE 6, 1939. Class 39.

370,093. MISSES' DRESSES, COATS, SUITS, AND HATS. SAKS & COMPANY, New York, N. Y.
Filed March 16, 1939. Serial No. 417,153. PUBLISHED MAY 30, 1939. Class 39.

370,094. SURGICAL RETRACTORS, TONGUE DEPRESSORS, CHEEK RETRACTORS, DEEP THROAT DEPRESSORS, TRANSILLUMINATORS (THAT IS, ILLUMINATING DEVICES FOR TRANSILLUMINATION), BEAM PROBES, MIRROR PROBES, VAGINAL PROBES, RECTAL PROBES, AND EAR SPECULUMS. CURVLITE PRODUCTS, INC., New York, N. Y.
Filed March 18, 1939. Serial No. 417,203. PUBLISHED JUNE 6, 1939. Class 44.

370,095. VARIOUS FOOD PRODUCTS, PARTICULARLY JELLY, HORSERADISH, BARBECUE SAUCE, PICKLES, MUSH, POTATO CHIPS, AND POTATO STICKS—I. E., A SPECIALLY PREPARED FOOD PRODUCT. THE FOOD SERVICE, Decatur, Ill.
Filed March 18, 1939. Serial No. 417,209. PUBLISHED JUNE 6, 1939. Class 46.

370,096. STORAGE BATTERIES. OMAR H. SHEPARD, doing business as Shepard Battery Co., Bridgeport, Conn.
Filed March 18, 1939. Serial No. 417,237. PUBLISHED JUNE 6, 1939. Class 21.

370,097. NONALCOHOLIC, MALTLESS CARBONATED BEVERAGES SOLD AS SOFT DRINKS AND SYRUPS AND EXTRACTS USED IN MAKING SAME. C. C. CALLAWAY, JR., Atlanta, Ga.
Filed March 20, 1939. Serial No. 417,258. PUBLISHED JUNE 6, 1939. Class 45.

370,098. PHONOGRAPHS AND COMBINATION RADIO-PHONOGRAPHS. CHICAGO MUSICAL INSTRUMENT COMPANY, Chicago, Ill.
Filed March 20, 1939. Serial No. 417,262. PUBLISHED JUNE 6, 1939. Class 36.

370,099. WRENCHES, SCREWDRIVERS, AND HAND TURNING TOOLS. SNAP-ON TOOLS CORPORATION, Kenosha, Wis.
Filed March 20, 1939. Serial No. 417,309. PUBLISHED JUNE 6, 1939. Class 23.

370,100. PILE FABRICS IN THE PIECE OF RAYON AND SILK. THE J. ROSSIE VELVET COMPANY, Mystic, Conn.
Filed March 21, 1939. Serial No. 417,347. PUBLISHED JUNE 6, 1939. Class 42.

370,101. LADIES' AND MISSES' SUITS, JACKETS, SKIRTS, COATS, AND COAT AND SUIT ENSEMBLES. WOLF & BARSE, INC., New York, N. Y.
Filed March 21, 1939. Serial No. 417,354. PUBLISHED MAY 30, 1939. Class 39.

370,102. CARPET SWEEPERS. CROWN SPECIALTIES, INC., Newark, N. J.
Filed March 22, 1939. Serial No. 417,360. PUBLISHED JUNE 6, 1939. Class 23.

370,103. BEERS AND ALES. OLD DUTCH BREWERS, INC., Brooklyn, N. Y.
Filed March 22, 1939. Serial No. 417,385. PUBLISHED JUNE 6, 1939. Class 48.

370,104. WOMEN'S AND MISSES' SHOES MADE OF LEATHER, FABRIC, AND COMBINATIONS THEREOF. SAKS & COMPANY, New York, N. Y.
Filed March 22, 1939. Serial No. 417,389. PUBLISHED MAY 30, 1939. Class 39.

370,105. ENDLESS BELT, PORTABLE CONVEYORS. GAR WOOD INDUSTRIES, INC., Detroit, Mich.
Filed March 24, 1939. Serial No. 417,450. PUBLISHED JUNE 6, 1939. Class 23.

370,106. PINKING MACHINES AND PARTS THEREOF. MAN-SEW PINKING ATTACHMENT CORP., New York, N. Y.
Filed March 24, 1939. Serial No. 417,466. PUBLISHED JUNE 6, 1939. Class 23.

370,107. RAYON PIECE GOODS. COURTAULDS, LIMITED, London, England.
Filed March 25, 1939. Serial No. 417,489. PUBLISHED JUNE 6, 1939. Class 42.

370,108. WOMEN'S LINGERIE—NAMELY, CHEMISES, PANTIES, NIGHT-GOWNS, PAJAMAS, SLIPS, BRASSIÈRES, NEGLIGEES, AND CORSETS. GARFINKEL & RITTER, New York, N. Y.
Filed March 27, 1939. Serial No. 417,529. PUBLISHED JUNE 6, 1939. Class 39.

370,109. WOMEN'S LINGERIE—NAMELY, CHEMISES, PANTIES, NIGHT-GOWNS, PAJAMAS, SLIPS, BRASSIÈRES, NEGLIGEES, AND CORSETS. GARFINKEL & RITTER, New York, N. Y.
Filed March 27, 1939. Serial No. 417,530. PUBLISHED JUNE 6, 1939. Class 39.

370,110. WOMEN'S LINGERIE—NAMELY, CHEMISES, PANTIES, NIGHTGOWNS, PAJAMAS, SLIPS, BRASSIÈRES, NEGLIGEES, AND CORSETS. GARFINKEL & RITTER, New York, N. Y.
Filed March 27, 1939. Serial No. 417,531. PUBLISHED JUNE 6, 1939. Class 39.

370,111. WOMEN'S LINGERIE—NAMELY, CHEMISES, PANTIES, NIGHTGOWNS, PAJAMAS, SLIPS, BRASSIÈRES, NEGLIGEES, AND CORSETS. GARFINKEL & RITTER, New York, N. Y.
Filed March 27, 1939. Serial No. 417,532. PUBLISHED JUNE 6, 1939. Class 39.

370,112. PINKING MACHINES AND PARTS THEREOF. MAN-SEW PINKING ATTACHMENT CORP., New York, N. Y.
Filed March 27, 1939. Serial No. 417,546. PUBLISHED JUNE 6, 1939. Class 23.

370,113. MEN'S AND BOYS' HOSIERY AND UNDERWEAR. H. J. GROSSMAN, Mount Carmel, Pa.
Filed March 28, 1939. Serial No. 417,572. PUBLISHED MAY 30, 1939. Class 39.

370,114. PIECE GOODS OF WOOL USED IN MANUFACTURING BOYS' CLOTHING. SANDESS MANUFACTURING COMPANY, Philadelphia, Pa.
Filed March 29, 1939. Serial No. 417,627. PUBLISHED JUNE 6, 1939. Class 42.

370,115. PREPARED MIXTURE FOR THE MAKING OF CAKES, ROLLS, DOUGHNUTS, BREAD, AND OTHER PASTRY PRODUCTS. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn.
Filed March 29, 1939. Serial No. 417,676. PUBLISHED JUNE 6, 1939. Class 46.

370,116. FRESH CITRUS FRUIT. TEAGUE-MCKEVETT ASSOCIATION, Santa Paula, Calif.
Filed March 31, 1939. Serial No. 417,716. PUBLISHED JUNE 6, 1939. Class 46.

370,117. FRESH CITRUS FRUIT. TEAGUE-MCKEVETT ASSOCIATION, Santa Paula, Calif.
Filed March 31, 1939. Serial No. 417,717. PUBLISHED JUNE 6, 1939. Class 46.

370,118. CANNED TUNA FISH FLAKES. COAST FISHING COMPANY, Wilmington, Calif.
Filed April 1, 1939. Serial No. 417,746. PUBLISHED JUNE 6, 1939. Class 46.

370,119. SHOES MADE OF LEATHER, FABRIC, FIBER, OR RUBBER, OR COMBINATIONS OF THE SAME. A. SANDLER CO., Boston, Mass.
Filed April 1, 1939. Serial No. 417,783. PUBLISHED MAY 30, 1939. Class 39.

370,120. FOOTWEAR MADE PRINCIPALLY OF LEATHER WITH PORTIONS MADE OF FABRIC AND RUBBER—NAMELY, SHOES, OXFORDS, SLIPPERS, BOOTS, AND WORK SHOES. MASON SHOE MANUFACTURING COMPANY, Chippewa Falls, Wis.
Filed April 5, 1939. Serial No. 417,884. PUBLISHED MAY 30, 1939. Class 39.

370,121. DRESS SHIELDS. MCCRORY STORES CORPORATION, New York, N. Y.
Filed April 5, 1939. Serial No. 417,885. PUBLISHED MAY 30, 1939. Class 40.

370,122. DRESS SHIELDS. MCCRORY STORES CORPORATION, New York, N. Y.
Filed April 5, 1939. Serial No. 417,886. PUBLISHED MAY 30, 1939. Class 40.

370,123. POULTRY AND STOCK FEED. TRANSIT GRAIN & COMMISSION COMPANY, Fort Worth, Tex.
Filed April 5, 1939. Serial No. 417,895. PUBLISHED JUNE 6, 1939. Class 46.

370,124. TALKING MACHINE RECORDS. ZENITH RADIO CORPORATION, Chicago, Ill.
Filed April 7, 1939. Serial No. 417,993. PUBLISHED JUNE 6, 1939. Class 36.

370,125. SHOES MADE OF LEATHER AND COMBINATIONS OF LEATHER AND FABRIC. FIELD AND FLINT CO., Brockton, Mass.
Filed April 8, 1939. Serial No. 417,999. PUBLISHED MAY 30, 1939. Class 39.

370,126. SHOES MADE OF LEATHER AND COMBINATIONS OF LEATHER AND FABRIC. FIELD AND FLINT CO., Brockton, Mass.
Filed April 8, 1939. Serial No. 418,000. PUBLISHED MAY 30, 1939. Class 39.

370,127. ELECTRIC DRY SHAVERS. PUDARK AND THOMPSON, Chicago, Ill.
Filed April 10, 1939. Serial No. 418,059. PUBLISHED JUNE 6, 1939. Class 23.

370,128. PORTABLE FIRE EXTINGUISHERS. WILLIAM LOUIS ROESSNER, doing business as Y-Burn, Chicago, Ill., assignor to Bertha L. MacGregor, Chicago, Ill., as trustee.
Filed April 10, 1939. Serial No. 418,061. PUBLISHED JUNE 6, 1939. Class 23.

370,129. PORTABLE FIRE EXTINGUISHERS. WILLIAM LOUIS ROESSNER, doing business as Y-Burn, Chicago, Ill., assignor to Bertha L. MacGregor, Chicago, Ill., as trustee.
Filed April 10, 1939. Serial No. 418,062. PUBLISHED JUNE 6, 1939. Class 23.

370,130. WOMEN'S AND MISSES' DRESSES, TEA-GOWNS, COATS, SUITS, OUTER SKIRTS, BLOUSES, SWEATERS, BATHING SUITS, HOSIERY, SCARFS, GLOVES MADE OF LEATHER AND FABRIC, NIGHTGOWNS, NEGLIGEES, SLIPS, PANTIES, AND BRASSIÈRES. BONWIT TELLER, INC., New York, N. Y.
Filed April 10, 1939. Serial No. 418,075. PUBLISHED JUNE 6, 1939. Class 39.

370,131. LEATHER DANCE SLIPPERS. WOHL SHOE COMPANY, St. Louis, Mo.
Filed April 10, 1939. Serial No. 418,081. PUBLISHED JUNE 6, 1939. Class 39.

370,132. FURNITURE MADE OF WOOD AND INCLUDING TABLES, CHAIRS, COUCHES, BEDS, CABINETS, CASES, DESKS, DRESSERS, CHESTS, VANITIES. CHARAK FURNITURE COMPANY, Boston, Mass.
Filed April 12, 1939. Serial No. 418,132. PUBLISHED JUNE 6, 1939. Class 32.

370,133. HAIR GOODS—NAMELY, SWITCHES, TRANSFORMATIONS, BOB WIGS, PUFFS, CURLS, RINGLETS, WAVELETS, PIN CURLS, HAIR ROLLS, AND CREPE WOOL USED IN FOUNDATIONS FOR THE HAIR. THE GLEMBY COMPANY, INC., New York, N. Y.
Filed April 12, 1939. Serial No. 418,145. PUBLISHED JUNE 6, 1939. Class 40.

370,134. CARD NUMBER GAME PLAYED AFTER THE MANNER OF BINGO OR TIT-TAT-TO. LOUIS KESSLER, doing business as Novelty Games Co., New York, N. Y.
Filed April 12, 1939. Serial No. 418,155. PUBLISHED JUNE 6, 1939. Class 22.

370,135. PRISM BINOCULARS, PRISM MONOCULARS, SPORT GLASSES, OPERA GLASSES, AND FIELD GLASSES. SELSI COMPANY, INC., New York, N. Y.
Filed April 12, 1939. Serial No. 418,170. PUBLISHED JUNE 6, 1939. Class 26.

370,136. PAPER DRILL. CHRISTIE-LUCAS COMPANY, Rochester, N. Y.
Filed April 13, 1939. Serial No. 418,186. PUBLISHED JUNE 6, 1939. Class 23.

370,137. FISH HOOKS. WRIGHT & MCGILL CO., Denver, Colo.
Filed April 15, 1939. Serial No. 418,323. PUBLISHED JUNE 6, 1939. Class 22.

370,138. GASKETS AND SHEET PACKING. UNITED STATES RUBBER COMPANY, New York, N. Y.
Filed April 17, 1939. Serial No. 418,377. PUBLISHED JUNE 6, 1939. Class 35.

370,139. MATTRESSES, MATTRESS FOUNDATION UNITS, AND BOX SPRINGS. SEALY, INCORPORATED, Pittsburgh, Pa.
Filed April 19, 1939. Serial No. 418,451. PUBLISHED JUNE 6, 1939. Class 32.

370,140. HOT WATER BOTTLES AND SYRINGES. BLOOMINGDALE BROS., INC., New York, N. Y.
Filed April 21, 1939. Serial No. 418,510. PUBLISHED JUNE 6, 1939. Class 44.

370,141. SHEATH PROPHYLACTICS, INCLUDING RUBBER ARTICLES, FOR THE PREVENTION OF CONTAGIOUS DISEASES. CROWN RUBBER COMPANY, Los Angeles, Calif.
Filed April 22, 1939. Serial No. 418,565. PUBLISHED JUNE 6, 1939. Class 44.

370,142. COMBINED TABLES AND CHAIRS FOR INFANTS AND JUVENILES. THE FORT MASSAC CHAIR COMPANY, Metropolis, Ill.
Filed April 26, 1939. Serial No. 418,708. PUBLISHED JUNE 6, 1939. Class 32.

370,143. GOLF BALLS. L. BAMBERGER & CO., Newark, N. J.
Filed April 27, 1939. Serial No. 418,761. PUBLISHED JUNE 6, 1939. Class 22.

370,144. PNEUMATIC VEHICLE TIRES. THE B. F. GOODRICH COMPANY, New York, N. Y.
Filed April 27, 1939. Serial No. 418,776. PUBLISHED JUNE 6, 1939. Class 35.

370,145. DISTILLED ALCOHOLIC SPIRITS—NAMELY, RUM, GIN, ALCOHOLIC CORDIALS, AND LIQUEURS. LICORERIA MARIN INC., Mayaguez, P. R.
Filed April 28, 1939. Serial No. 418,843. PUBLISHED JUNE 6, 1939. Class 49.

370,146. GAMES AND GAME APPARATUS AND PARTICULARLY MARBLE BOARD GAMES. SYNCRO DEVICES, INCORPORATED, Detroit, Mich.
Filed April 28, 1939. Serial No. 418,857. PUBLISHED JUNE 6, 1939. Class 22.

370,147. MATTRESSES. SUPERIOR FELT & BEDDING COMPANY, Chicago, Ill.
Filed April 29, 1939. Serial No. 418,902. PUBLISHED JUNE 6, 1939. Class 32.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

370,148. (CLASS 23, CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE CLAYTON MANUFACTURING COMPANY, Bristol, Conn. Filed June 18, 1938. Serial No. 407,620.

TAK-A-PART

For Scissors and Shears.
Claims use since June 1, 1938.

370,149. (CLASS 37, PAPER AND STATIONERY.) WATERBURY CLOCK COMPANY, Waterbury, Conn. Filed July 9, 1938. Serial No. 408,362.

Ingersoll

For Mechanical Pencils.
Claims use since June 23, 1938.

370,150. (CLASS 2, RECEPTACLES.) HAROLD T. WEISS, doing business as Chemical Products Co., Los Angeles, Calif. Filed July 18, 1938. Serial No. 408,631.

VAPOREGULATOR

For Air-Flow Dispensers in the Nature of a Can or Container for Fumigants for Insecticides.
Claims use since Apr. 21, 1938.

370,151. (CLASS 27, HOROLOGICAL INSTRUMENTS.) THE RICHTER & PHILLIPS COMPANY, Cincinnati, Ohio. Filed Aug. 2, 1938. Serial No. 409,172.

Luzerne

For Watches.
Claims use since July 5, 1938.

370,152. (CLASS 39, CLOTHING.) ILA RICHMOND, Chicago, Ill. Filed Dec. 15, 1938. Serial No. 413,880.

Mademoiselle Roche

For Ladies' Hats, Fur Coats, Fur Scarfs, Dresses, Blouses, Coats, Brassières, Girdles, Slips, and Panties.
Claims use since Dec. 1, 1935.

370,153. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BEACON MANUFACTURING COMPANY, Swannanoa, N. C. Filed Feb. 7, 1939. Serial No. 415,692.

WELDON

For Blankets Made of Cotton or Cotton and Wool.
Claims use since Feb. 15, 1935.

370,154. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BEACON MANUFACTURING COMPANY, Swannanoa, N. C. Filed Feb. 7, 1939. Serial No. 415,693.

Malden

For Blankets Made of Cotton or Cotton and Wool.
Claims use since Feb. 15, 1935.

370,155. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) BEACON MANUFACTURING COMPANY, Swannanoa, N. C. Filed Feb. 7, 1939. Serial No. 415,697.

NORWOOD

For Blankets Made of Cotton or Cotton and Wool.
Claims use since Feb. 15, 1935.

370,156. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) ALBERT WESTPFAL, New York, N. Y. Filed Mar. 11, 1939. Serial No. 416,979.



For Furrier's Blades.
Claims use since June 1, 1935.

370,157. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) FABERGÉ, INC., New York, N. Y. Filed Mar. 27, 1939. Serial No. 417,528.

Body Duster

For Powder Brushes.
Claims use since April, 1938.

370,158. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) BUSH BROTHERS & COMPANY, Dandridge, Tenn. Filed Apr. 7, 1939. Serial No. 417,955.

BUSH'S Best CHOPPED KRAUT



For Canned Sauerkraut.
Claims use since June 24, 1938.

370,159. (CLASS 44. DENTAL, MEDICAL, AND SURGICAL APPLIANCES.) THE OHIO TRUSS COMPANY, Cincinnati, Ohio. Filed Apr. 10, 1939. Serial No. 418,052.

NON-SKID

For Trusses and Truss Pads.
Claims use since Jan. 2, 1915.

370,160. (CLASS 49. DISTILLED ALCOHOLIC LIQUORS.) J. A. DOUGHERTY'S SONS, INC., DISTILLERS, Philadelphia, Pa. Filed June 12, 1939. Serial No. 420,405.

GIRARD

For Whiskey.
Claims use since June 2, 1932.

370,161. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) THE NASH ENGINEERING COMPANY, South Norwalk, Conn. Filed June 16, 1939. Serial No. 420,595.

CLEAN AIR

For Air Compressors.
Claims use since Apr. 6, 1938.

TRADE-MARK REGISTRATIONS RENEWED

16,842. **EL CORDERO.** FLOUR. Registered July 23, 1889. THE ESTATE OF GEORGE V. HECKER. Re-renewed July 23, 1939, to Standard Milling Company, New York, N. Y., a corporation of Delaware, assignee by mesne assignments.

126,237. **DOMINO.** ICING FOR USE AS A FOOD. Registered August 19, 1919. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y. Renewed August 19, 1939, to The American Sugar Refining Company, New York, N. Y., a corporation of New Jersey.

126,319. **REVLOC.** COAL. Registered August 19, 1919. MONROE COAL MINING COMPANY, Cambria Township, Cambria County, and Philadelphia, Pa. Renewed August 19, 1939, to Monroe Coal Mining Company, Philadelphia, Pa., a corporation of Pennsylvania.

126,377. **DOMINO.** HONEY. Registered August 26, 1919. THE AMERICAN SUGAR REFINING COMPANY, Jersey City, N. J., and New York, N. Y. Renewed August 26, 1939, to The American Sugar Refining Company, New York, N. Y., a corporation of New Jersey.

126,384. **WEE-TOT.** CERTAIN NAMED PHARMACEUTICAL PREPARATIONS FOR TOILET PURPOSES. Registered August 26, 1919. HARRIET HUBBARD AYER, New York, N. Y., a corporation of New York. Renewed August 26, 1939.

126,772. **SANIFECT.** A DEODORIZER AND DISINFECTANT. Registered September 30, 1919. THE SANIFECT COMPANY, Newark, N. J., a corporation of New Jersey. Renewed September 30, 1939.

127,179. **PALMA REAL.** BISCUIT. Registered October 21, 1919. CONSUMERS BISCUIT COMPANY, New Orleans, La. Renewed October 21, 1939, to Loose-Wiles Biscuit Company, Kansas City, Mo., a corporation of Missouri, assignee.

127,217. **L.** METALLIC RADIATOR-VALVES. Registered October 28, 1919. COMMONWEALTH BRASS CORPORATION, Detroit, Mich., a corporation of Michigan. Renewed October 28, 1939.

127,227. **E.** WRITING AND PRINTING PAPER AND CARDBOARD. Registered October 28, 1919. EASTERN MANUFACTURING COMPANY. Renewed October 28, 1939, to Eastern Manufacturing Company, Bangor, Maine, a corporation of Maine, assignee by mesne assignments.

127,676. **RUSSELL.** WOVEN BELTS FOR MILITARY EQUIPMENT. Registered November 18, 1919. THE RUSSELL MANUFACTURING COMPANY, Middletown, Conn., a corporation of Connecticut. Renewed November 18, 1939.

127,809. **MARCELLE.** CERTAIN NAMED COSMETICS. Registered December 9, 1919. C. W. BEGGS, SONS & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed December 9, 1939.

127,966. **HOME-CREST.** WOVEN RUGS AND WOVEN CARPETS. Registered December 16, 1919. MARSHALL FIELD & COMPANY, Chicago, Ill., a corporation of Illinois. Renewed December 16, 1939.

127,967. **SHERWOOD.** PIECE GOODS CONSTRUCTED OF COTTON, SILK, AND MIXTURES THEREOF. Registered December 16, 1919. MILLS & GIBB CORPORATION. Renewed December 16, 1939, to Gardner, Lehr & Fitch, Inc., New York, N. Y., a corporation of New York, successor.

128,129. **ANDROSCOGGIN.** COTTON PIECE GOODS AND QUILTS. Registered December 23, 1919. ANDROSCOGGIN MILLS, Lewiston, Maine, a corporation of Maine. Renewed December 23, 1939.

128,176. **VICTORY.** EMBLEMS AND BADGES, ALL MADE WHOLLY OR IN PART OF PRECIOUS METAL. Registered December 23, 1919. ALFRED SPEAR, Providence, R. I. Renewed December 23, 1939.

128,223. **KOMFO.** BEDSTEADS. Registered December 30, 1919. BERNSTEIN MANUFACTURING COMPANY, Philadelphia, Pa. Renewed December 30, 1939, to Komfo Products Corporation, Allentown, Pa., a corporation of Pennsylvania, successor.

128,246. **SHEPHERD.** ORANGES AND LEMONS. Registered December 30, 1919. LA HABRA CITRUS ASSOCIATION, La Habra, Calif., a corporation of California. Renewed December 30, 1939.

128,318. **ADVANCE.** CERTAIN NAMED PAPER AND STATIONERY. Registered January 6, 1920. L. L. BROWN PAPER COMPANY, Adams, Mass., a corporation of Massachusetts. Renewed January 6, 1940.

128,351. **CROWN.** OVERALLS. Registered January 6, 1920. THE CROWN OVERALL MFG. CO., Cincinnati, Ohio, a corporation of Ohio. Renewed January 6, 1940.

128,451. **MASON.** CANDIES AND CHOCOLATES. Registered January 6, 1920. MASON, AU & MAGENHEIMER CONF. MFG. CO., Brooklyn, N. Y. Renewed January 6, 1940, to Mason, Au & Magenheimer Confectionery Manufacturing Company, New York, N. Y., a corporation of West Virginia.

128,535. **LA GOLONDRINA.** SOAP. Registered January 6, 1920. SWIFT AND COMPANY, Chicago, Ill., a corporation of Illinois. Renewed January 6, 1940.

128,575. **LUZON.** BOND-PAPER FOR PRINTING AND WRITING PURPOSES. Registered January 6, 1920. WEST VIRGINIA PULP & PAPER COMPANY, New York, N. Y., a corporation of Delaware. Renewed January 6, 1940.

128,592. **ALBEMARLE.** BLOTTING-PAPER. Registered January 13, 1920. THE ALBEMARLE PAPER MANUFACTURING COMPANY, Richmond, Va., a corporation of Virginia. Renewed January 13, 1940.

128,594. **VULCALUN.** CERTAIN NAMED CONSTRUCTION MATERIALS. Registered January 13, 1920. AMERICAN ABRASIVE METALS COMPANY, New York, N. Y., a corporation of New York. Renewed January 13, 1940.

128,621. **BEECH-NUT.** GINGER-ALE. Registered January 13, 1920. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y., a corporation of New York. Renewed January 13, 1940.

128,642. **HOPKINS.** HATS FOR MEN. Registered January 13, 1920. BRIGHAM-HOPKINS COMPANY, Baltimore, Md., a corporation of Maryland. Renewed January 13, 1940.

128,676. **COMAL LILY.** WHEAT-FLOUR. Registered January 13, 1920. H. DITTLINGER ROLLER MILLS COMPANY, New Braunfels, Tex., a corporation of Texas. Renewed January 13, 1940.

128,745. **KORN KILLER.** LEATHER SHOES FOR MEN, WOMEN, AND CHILDREN. Registered January 13, 1920. CHARLES M. KAPLAN, Philadelphia, Pa. Renewed January 13, 1940.

128,807. **A SWASTIKA.** TABLETS CONTAINING OLIVE-OIL FOR USE AS A LAXATIVE. Registered January 13, 1920. THE OLIVE TABLET COMPANY, Columbus, Ohio, a corporation of Ohio. Renewed January 13, 1940.

128,882. **MARATHON.** BABBITT METAL. Registered January 13, 1920. UNITED AMERICAN METALS CORPORATION, Brooklyn, N. Y., a corporation of New York. Renewed January 13, 1940.

128,899. **JAQUELINE.** FACE-CREAM, FACE-POWDER, AND TOILET WATERS. Registered January 13, 1920. WESTERN HAIR GOODS COMPANY, Chicago, Ill., a corporation of Illinois. Renewed January 13, 1940.

128,977. **DOMESTIC.** WRITING AND PRINTING BOND-PAPER, LEDGER-PAPER, WRITING-PAPER, AND MAILING-ENVELOPS. Registered January 20, 1920. FOREST PAPER COMPANY, INC., New York, N. Y., a corporation of New York. Renewed January 20, 1940.

LABELS

REGISTERED AUGUST 15, 1939

53,372.—*Title:* DE LUXE MODE. For Cartons. BIRD & SON, INC., East Walpole, Mass. Published July 18, 1939.

53,373.—*Title:* HOLLYWOOD. For Artificial Finger Nails. JOSEPH F. CINGROS, doing business as Per-Fek Products, Chicago, Ill. Published June 27, 1939.

53,374.—*Title:* KANT-MIST GLASS CLEANER. For a Glass Cleaner. HARRY B. COWAN, Los Angeles, Calif. Published June 8, 1939.

53,375.—*Title:* KIX. For Breakfast Cereal. GENERAL MILLS, INC., Minneapolis, Minn. Published June 24, 1939.

53,376.—*Title:* SCHOOL DAYS. For Popped Popcorn. CHAS. HEFLEY, doing business as Chas. Hefley Popcorn Products, Los Angeles, Calif. Published July 12, 1939.

53,377.—*Title:* BILE PREPARATION. For a Bile Preparation. W. F. HOOPER, Oklahoma City, Okla. Published May 20, 1939.

53,378.—*Title:* LOVE APPLES. For Tomatoes. HAROLD HORNOR, Mount Holly, N. J. Published August 25, 1938.

53,379.—*Title:* MACTAVISH ORANGE MARMALADE BITTER-SWEET. For Orange Marmalade. MACTAVISH PRESERVES CO., Elmhurst, Long Island, N. Y. Published May 4, 1939.

53,380.—*Title:* SNICKERS. For Candy. MARS INCORPORATED, Chicago, Ill. Published June 11, 1939.

53,381.—*Title:* MARS, A TOASTED ALMOND BAR. For Candy. MARS INCORPORATED, Chicago, Ill. Published June 11, 1939.

53,382.—*Title:* VANILLA FOREVER YOURS MILKY WAY. For Candy. MARS INCORPORATED, Chicago, Ill. Published July 11, 1939.

53,383.—*Title:* MILKY WAY CHOCOLATE. For Candy. MARS INCORPORATED, Chicago, Ill. Published June 11, 1939.

53,384.—*Title:* NACHMAN RESILATEX CONSTRUCTION. For Mattresses. NACHMAN SPRING-FILLED CORP., Chicago, Ill. Published June 10, 1939.

53,385.—*Title:* MECCADOR TIES. For Ties. THE PARIS NECKWEAR CO. INC., New York, N. Y. Published April 15, 1939.

53,386.—*Title:* ROBERTS UNSWEETENED EVAPORATED MILK. For Unsweetened Evaporated Milk. ROBERTS DAIRY CO., Sioux City, Iowa; Omaha and Lincoln, Nebr. Published May 30, 1939.

53,387.—*Title:* SCHLITZ QUICK-RIP SEAL. For Beer. JOS. SCHLITZ BREWING COMPANY, Milwaukee, Wis. Published June 9, 1939.

53,388.—*Title:* GROWS WITH THE CHILD. For Children's Garments. SNUGGLE RUG CO., Goshen, Ind. Published June 27, 1939.

53,389.—*Title:* GROWS AS BABY GROWS. For Children's Garments. SNUGGLE RUG CO., Goshen, Ind. Published June 27, 1939.

53,390.—*Title:* CORVET A B D G VITAMIN CAPSULES. For Vitamin Capsules. STEWART & ROSS CORPORATION, Long Island City, N. Y. Published June 15, 1939.

53,391.—*Title:* CORVET A B D G VITAMIN CAPSULES. For Vitamin Capsules. STEWART & ROSS CORPORATION, Long Island City, N. Y. Published June 15, 1939.

53,392.—*Title:* GOLDEN BANTAM. For Kentucky Straight Bourbon Whisky. THE K. TAYLOR DISTILLING CO., INC., Frankfort, Ky. Published July 11, 1939.

53,393.—*Title:* 99. For Kentucky Straight Bourbon Whisky. THE K. TAYLOR DISTILLING CO., INC., Frankfort, Ky. Published April 27, 1939.

53,394.—*Title:* ROYAL SPRINGS. For Kentucky Straight Bourbon Whisky. THE K. TAYLOR DISTILLING CO., INC., Frankfort, Ky. Published July 11, 1939.

53,395.—*Title:* WYE-TONE. For a Medicine Used to Help Purify and Tone the Systems of Men, Women, and Children, and for Use as a Laxative. JAMES A. TITUS, doing business as Wye-Tone Distributors, Detroit, Mich. Published June 29, 1939.

53,396.—*Title:* "BLACK LEAF" DUAL-FIXED NICOTINE DUST. For Dual-Fixed Nicotine Dust. TOBACCO BY-PRODUCTS & CHEMICAL CORPORATION, INCORPORATED, Louisville, Ky. Published April 26, 1939.

53,397.—*Title:* TOWNSEND CLUB. For Stationery. TOWNSEND NATIONAL WEEKLY, INC., Chicago, Ill. Published May 25, 1939.

53,398.—*Title:* YOUNG'S BLUE LABEL Y. P. M. For Blended Whiskey. ALEXANDER YOUNG DISTILLING CO., Philadelphia, Pa. Published May 31, 1939.

53,399.—*Title:* RED BOOK. For California Vegetables. GEORGE YOUNG, doing business as George Young and Son, Los Angeles, Calif. Published June 30, 1939.

53,400.—*Title:* ABSORBINE JR. For an Antiseptic for Relief of Sore Muscles, Superficial Cuts, Bruises, Burns, Sunburn, Bites of Small Insects, Aches and Pains that Can Be Reached by External Applications. W. F. YOUNG, INC., Springfield, Mass. Published June 1, 1939.

53,401.—*Title:* ABSORBINE JR. For a Preparation for Relief of Sore Muscles, Superficial Cuts, Bruises, Burns, Sunburn, Bites of Small Insects, Aches and Pains that Can Be Reached by External Applications. W. F. YOUNG, INC., Springfield, Mass. Published June 1, 1939.

PRINTS

REGISTERED AUGUST 15, 1939

17,533.—*Title:* CHROMLEAD THE NEW CHROMIUM-METALLIC LEAD PROCESS. For Chromized Metallic Lead Used as a Rust Inhibitor. C. H. DRAGERT COMPANY, INC., Brooklyn, N. Y. Published April 20, 1939.

17,534.—*Title:* TYME MEMORIALS. For Memorials. TOM JONES, Montpelier, Vt. Published June 21, 1939.

17,535.—*Title:* READY-TO-RUN NEWSPAPER ADS THAT WILL SELL MORE SWEATERS! For Cardigans and Sweaters. PURITAN KNITTING MILLS CORP., Altoona, Pa. Published June 30, 1939

17,536.—*Title:* SWINGTEST, THE FASCINATING INSTRUCTIVE PRACTICE GAME FOR GOOD GOLF. For a Game. CURT J. ROHLAND, Providence, R. I. Published July 1, 1939.

17,537.—*Title:* KALIFAT. For Publications. FRANCIS P. SAVINIEN, Los Angeles, Calif. Published May 24, 1939.

17,538.—*Title:* VITAMINS AND HEALTH. For Vitamin Capsules. STEWART & ROSS CORPORATION, Long Island City, N. Y. Published July 11, 1939

REISSUES

AUGUST 15, 1939

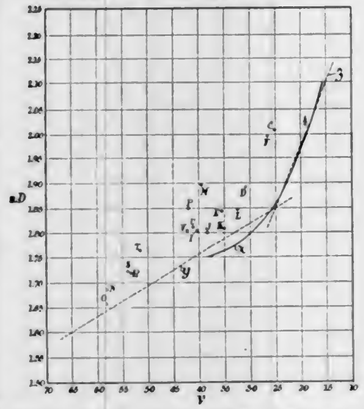
21,175

OPTICAL GLASS

George W. Morey, Chevy Chase, Md., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

Original No. 2,150,694, dated March 14, 1939, Serial No. 96,844, August 19, 1936. Application for reissue May 9, 1939, Serial No. 273,218. In Great Britain September 3, 1935

15 Claims. (Cl. 106—36.1)



1. A transparent optical glass having an index of refraction (nD) for the D-line greater than 1.65 and a dispersive index greater than both 385—200 nD and 99—40nD, resulting from fusion of a glass batch containing less than 10% silica and containing at least 20% by weight of oxides selected from the group consisting of the following elements: titanium, yttrium, zirconium, columbium, lanthanum, hafnium, tantalum, tungsten and thorium.

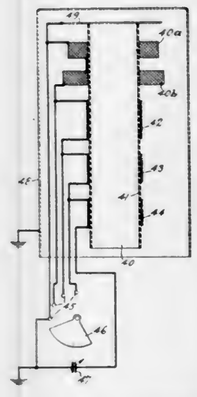
21,176

RADIO-FREQUENCY INDUCTANCE UNIT

Harold A. Wheeler, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Original No. 2,092,708, dated September 7, 1937. Serial No. 13,750, March 29, 1935. Application for reissue April 7, 1939, Serial No. 266,704

28 Claims. (Cl. 250—40)



1. A radio-frequency self-inductance unit comprising two serially connected coaxial concentrated winding sections, each section having an inner and outer terminal and said sections being interconnected through said inner terminals, each of said sections having non-uniform distributed reactance and the spacing of said sections being determined to provide a distributed capacitance between sections effective substantially to compensate for the non-uniformity of distributed reactance of each section.

PATENTS

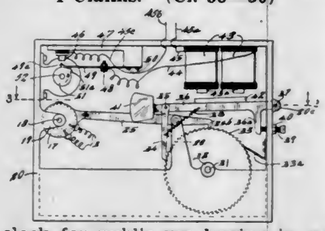
GRANTED AUGUST 15, 1939

2,169,208

ELECTRICALLY OPERATED CLOCK

Thomas C. Adams, Minneapolis, Minn., assignor of one-half to Mark J. Saperston, Chicago, Ill.

Application May 26, 1937, Serial No. 144,851
4 Claims. (Cl. 58—50)



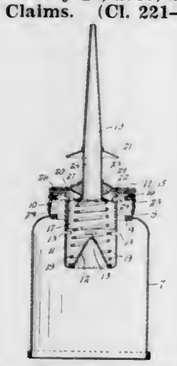
1. A clock for public use having in combination, a dial of large area, members constituting minute indicators spaced about a certain disposed outline on said dial and formed of elongated rectilinear neon lamp tubes, said tubes being disposed along substantially radial diverging lines relative to the center of said outline, a member making one rotation each minute, a switch, means on said member for closing said switch at each rotation of said member, a rotatable cylinder having sixty cams thereon of different lengths extending circumferentially thereon, an electrical circuit including said switch, means for quickly and intermittently moving said cylinder one-sixtieth of a revolution, actuating means for said last mentioned means operated by the closing of said circuit by said switch, a lever engaging each of said cams and operated thereby, an oscillatable sealed switch for each of said levers and connected thereto to be operated by said cam through said lever, conductors connected to each of said switches and to each of said neon lamp tubes whereby electrical contacts moving in engagement with each other are avoided and sparking eliminated.

2,169,209

PRESSURE OIL CAN

Chester A. Anderson, Litchfield, Minn., assignor of one-third to Alfred Anderson and one-third to Raymond N. Ornberg, both of Litchfield, Minn.

Application February 11, 1939, Serial No. 255,966
6 Claims. (Cl. 221—50)



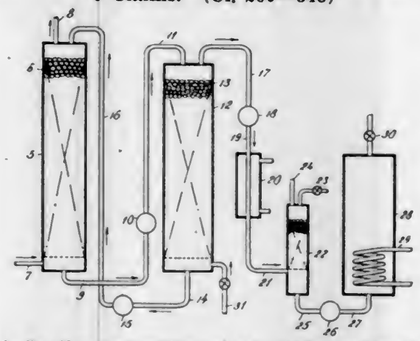
1. A pressure oil can comprising a can body having an opening therein, a sleeve supported in said opening and extending into said body and having an opening communicating with the interior thereof, a movable assembly comprising a spout and cylindrical plunger, said plunger having an open bottom and interior and communicating with said spout, said plunger being in slidable contact with the inner wall of said sleeve throughout its limit of slidable movement, a cap element secured across the opening in said body and having an aperture to slidably receive and guide said movable assembly, and a mass of packing material around said movable assembly and retained by said cap.

2,169,210

RECOVERY OF OLEFIN OXIDES FROM GASEOUS MIXTURES

Frederick R. Balcar, Stamford, Conn., assignor, by mesne assignments, to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia

Application November 5, 1938, Serial No. 239,172
6 Claims. (Cl. 260—348)



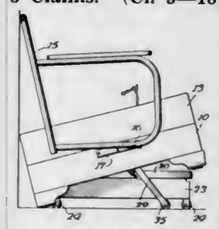
1. In the recovering of an olefin oxide from dilute gaseous mixtures, the steps of absorbing the olefin oxide in an aqueous solvent and subjecting the solvent to steam at a sub-atmospheric pressure so low that the temperature of the solvent is not substantially altered.

2,169,211

STUDIO COUCH

Matthew F. Bayer, Kenosha, Wis., assignor to Simmons Company, New York, N. Y., a corporation of Delaware

Application March 18, 1937, Serial No. 131,576
3 Claims. (Cl. 5—18)



1. A studio couch comprising a normally stationary couch section and a movable section, the latter being normally housed under said stationary section, said stationary section having a side portion adapted to conceal said movable section when housed under the stationary section, means for facilitating elevation of the front edge portion of the stationary section so as to permit said movable section to be moved under said side portion into or out of its normal position under the stationary section, a back rest extending upwardly from said stationary section adjacent its rear edge, said back rest being pivotally mounted on said stationary section so as to permit the back rest to be rocked forwardly relative to the stationary section, and stop means for cooperating with said pivot mounting to support said back rest in normal upwardly extending position, whereby when said stationary section is elevated at its front edge, said back rest is adapted to rock toward the front edge to permit upward movement of said front edge to proceed unhampered in the event that said back rest engages a wall or the like as an incident to said upward movement.

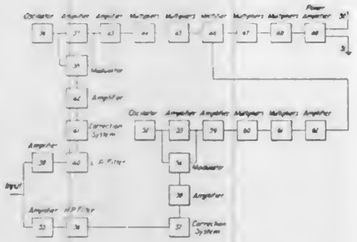
2. A studio couch comprising a normally stationary couch section and a movable couch section, the latter being normally housed under said stationary section, said stationary section having a side portion adapted to conceal said movable section when housed under the stationary section, spring means for facilitating elevation of one edge portion of the stationary section so as to permit said movable section to be moved under said side portion into or out of its normal housed position under the stationary section, said means being such as to support said stationary section in such elevated position during the movement of said movable section, said spring means being such that the stationary section is adapted to be raised from or lowered to normal position by the application to the stationary section of relatively slight, manual, raising or lowering force, and comprising an arm pivoted adjacent one end to the section and extending toward the front edge of the section, the free end of said arm being adapted to engage the floor, said spring means acting on said arm so as to urge the same to swing downwardly and rearwardly relative to the stationary section towards a vertical position for effecting said elevation of the section.

2,169,212

RADIO TRANSMITTING SYSTEM

Edwin H. Armstrong, New York, N. Y.

Application January 16, 1937, Serial No. 120,943
Renewed April 22, 1938
10 Claims. (Cl. 250—9)



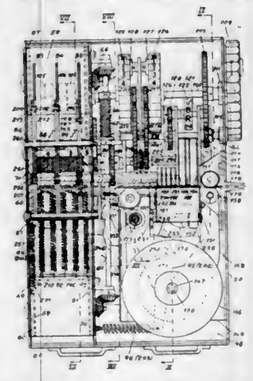
1. The method of simultaneously transmitting a plurality of signaling channels by frequency-modulated waves, which consists in causing one channel to frequency-modulate a source of oscillating current of relatively low frequency, causing another channel to frequency modulate a source of oscillating current of relatively higher frequency, multiplying the frequency of the first frequency modulated current, heterodyning the two frequency modulated currents with each other to produce a third frequency modulated current and transmitting the third frequency modulated current.

2,169,213

TICKET PRINTING OR MARKING AND ISSUING APPARATUS

Karl Gustaf Alfred Bäckdahl, Stockholm, Sweden, assignor to Julia Bäckdahl, Stockholm, Sweden

Application August 4, 1936, Serial No. 94,169
In Sweden August 14, 1934
13 Claims. (Cl. 101—69)



1. In a ticket issuing machine, a strip of rollable material having a plurality of groups of control indicia spaced apart along the strip and coded to correspond to different fares, sensing means adapted to co-operate with said groups of control indicia, means selectively to set said strip into a position in which a group of control indicia corresponding to a given combination of factors on which the fare depends is in operative position for co-operation with said sensing means, and means adapted to be adjusted by the sensing means to record on the ticket the fare corresponding to the group of control indicia in operative position.

2,169,214

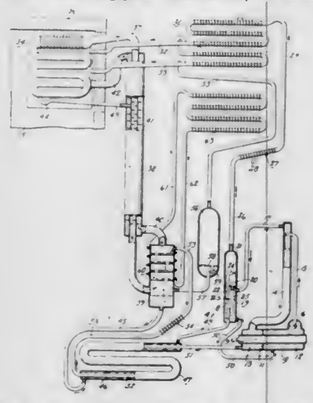
REFRIGERATION

Harry K. Bergholm, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware

Application April 1, 1936, Serial No. 71,989
8 Claims. (Cl. 62—119.5)

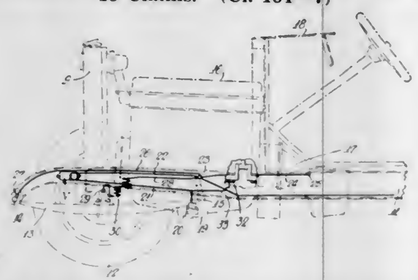
1. In an absorption refrigeration apparatus, an absorber, an analyzer having an upper and a lower chamber, a conduit for conveying strong absorption liquid by gravity from said absorber to said lower chamber, said conduit extending downwardly from said absorber and thence upwardly and terminating above the bottom of said lower chamber, means for establishing restricted communication between the interior of said conduit and the interior of said lower chamber at a point below the termination of said conduit in said lower chamber, a generator, means for conveying absorption liquid from said lower chamber to said generator, means for heating said generator to vaporize fluid therein, means for conveying vapor from said generator to said lower chamber, a vapor liquid lift operative by said

vapor to lift absorption liquid from said lower chamber to said upper chamber, and means for



conveying absorption liquid from said upper chamber to said lower chamber.

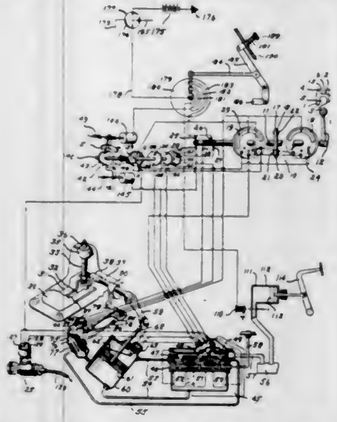
2,169,215
LUBRICATION
Joseph Bijur, New York, N. Y., assignor to Auto Research Corporation, a corporation of Delaware
Application March 28, 1931, Serial No. 525,971
15 Claims. (Cl. 184—7)



6. A central chassis lubricating installation for an automotive vehicle provided with a hood enclosing the engine structure, the temperature of which is substantially more constant than atmospheric and a chassis carrying the bearings supplied with lubricant, the temperature of which is substantially atmospheric, said installation comprising a lubricant reservoir and pump under said hood and maintained at engine temperature, a distributing conduit system leading to said chassis bearings and supported upon said chassis structure and an automatic temperature-controlled mechanism positioned outside of the hood and similarly supported upon said chassis structure whereby it is maintained at atmospheric temperature for regulating the flow of lubricant from the reservoir to the chassis system, said mechanism including a valve in the line of flow from the reservoir to the chassis system, means to periodically open said valve, means to close said valve after each opening and temperature-responsive means to retard action of said last mentioned means.

2,169,216
ACCELERATOR TIMER CONTROL
Allan P. Bloxsom, Houston, Tex.
Application October 14, 1937, Serial No. 168,997
10 Claims. (Cl. 192—.01)

1. In an automotive vehicle having a transmission, a pneumatically operated clutch, a pneumatically operated gear shifter, a selector valve for controlling operation of the shifter, a fuel control element, and means operable by movement of the fuel control element at idling position for timing the operation of the clutch



and the selector valve in a manner that the gear shifter is actuated when the clutch is released, said means comprising a sequence switch to open and close a clutch control circuit as the fuel control element is moved respectively to and from idling position.

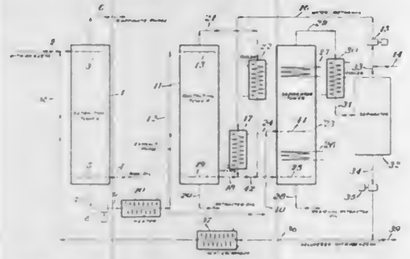
2,169,217
WELL TOOL
Ora A. Brown, South Gate, Calif., assignor to Baash-Ross Tool Company, Los Angeles, Calif., a corporation of California
Application April 5, 1938, Serial No. 200,107
13 Claims. (Cl. 164—0.7)



13. In apparatus of the character described a well string, a gripping tool adapted to be run into a tubular object in a well and including a body secured to the string, elements for gripping the object, a tailpiece shiftable on the body to control the gripping elements and frictionally engaging said object, thread means operable to shift the tailpiece to cause actuation or allow retraction of the gripping elements upon turning of the body relative to the tailpiece, two telescopically related relatively shiftably and turnable

members, one member connected to the body, the other member extending downwardly from the first member, spline means on the members cooperable when the members are in the contracted condition, means carried by the said other member and cooperable with the said object to hold said other member against downward movement, and stop parts on the tailpiece and said other member cooperable when the members are in said contracted condition to hold the tailpiece against turning whereby turning of the body actuates the thread means to move the tailpiece axially with respect to the body to allow retraction of the gripping elements, and stop parts on the members operate to limit turning between the members when the tailpiece reaches a position where the gripping elements are retracted.

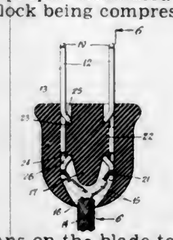
2,169,218
RECOVERY OF SOLVENT FROM HYDROCARBON OILS
Eugene R. Brownscombe, Aldan, Pa., assignor to The Atlantic Refining Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 30, 1937, Serial No. 123,191
11 Claims. (Cl. 260—645)



1. The method of recovering a nitrated aromatic hydrocarbon from admixture with hydrocarbon oil, which comprises contacting said mixture with a solvent for said nitrated aromatic hydrocarbon under elevated temperature and pressure conditions such that two liquid phases are formed, one comprising predominantly oil and the other comprising predominantly solvent and nitrated aromatic hydrocarbon, passing said phases in countercurrent contact with one another, cooling the phase comprising predominantly solvent and nitrated aromatic hydrocarbon to effect separation of residual oil from the solution of solvent and nitrated aromatic hydrocarbon, separating the oil phase from the solution and cooling said solution to separate and recover the nitrated aromatic hydrocarbon substantially free of oil.

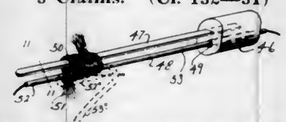
2,169,219
ATTACHMENT PLUG
Arthur Brownstein, Bridgeport, Conn., assignor to Whitney Blake Company, New Haven, Conn., a corporation of Connecticut
Application June 1, 1937, Serial No. 145,759
6 Claims. (Cl. 173—361)

1. In an attachment plug, a resilient body having a blade slot therein provided with notches undercut towards each other forming a yielding block as a part of one wall of the blade slot; a single thickness uniplanar blade adapted to be inserted into the slot; and means on the blade and projecting from one face thereof for interlocking engagement with said notches for permanently locking the blade in the slot when the same is in the proper assembled position therein, said yielding block being compressible to allow the



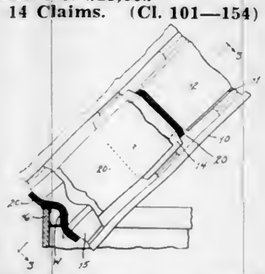
projecting means on the blade to be positioned in the undercut notches.

2,169,220
HAIR CURLER
Wendell J. Caley and John Edward Thebaud, Philadelphia, Pa.
Application January 8, 1936, Serial No. 58,084
3 Claims. (Cl. 132—31)



1. A hair curler comprising a handle, a longitudinal bar-like body, fixed to said handle, there being a hole in said handle, and a bendable wire, releasably positioned in said hole, to extend beyond said handle and lie next to said bar-like body.

2,169,221
PRINTING MEMBER
Lloyd V. Casto, Detroit, Mich., and Guido von Webern and Edward William Hamant, Dayton, Ohio, assignors to Oxford Varnish Corporation, Detroit, Mich., a corporation of Michigan
Original application August 27, 1937, Serial No. 161,328. Divided and this application June 24, 1938, Serial No. 215,662
14 Claims. (Cl. 101—154)

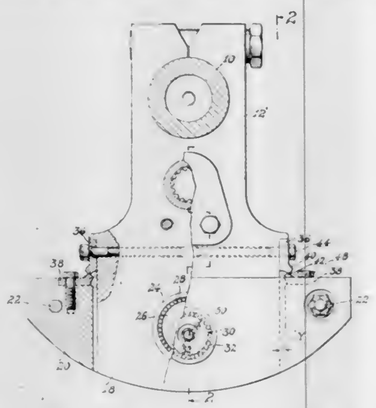


1. A printing member comprising a base of stretched elastic material and a coating of unstretched material secured thereto and providing a printing surface.

2,169,222
DYNAMIC DAMPER HAVING SINGLE SUPPORT AND CAM STABILIZERS
Roland Chilton, Ridgewood, N. J., assignor, by mesne assignments, to Wright-Aeronautical Corporation, Paterson, N. J., a corporation of New York
Application November 3, 1937, Serial No. 172,557
12 Claims. (Cl. 74—604)

1. In combination, a shaft extension member and a counterweight member one embracing the

other for limited relative motion, said members having relatively eccentric openings, a single pin engaging within said openings supporting the counterweight upon the extension against the action of centrifugal force, said openings and pin defining an arcuate path of travel for the weight,



and a plurality of auxiliary co-acting guiding means on the respective members spaced from said openings and pin and defining an arcuate path of travel for the counterweight identical with the first path, said auxiliary means being organized to be free from the action of centrifugal force.

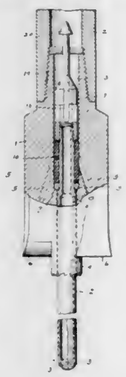
2,169,223

DRILLING APPARATUS

Carl C. Christian, Victoria, Tex.

Application April 10, 1937, Serial No. 136,049

2 Claims. (Cl. 255—61)



1. The combination with a drill having an axial bore extending from the upper to the lower end of the drill and having an inside seat around the bore, a discharge channel leading downwardly from the bore above said seat, of a tubular barrel shaped to fit through the bore, annular means loosely mounted on said barrel to engage said seat, an expansible packing on said barrel and engaging said annular means, said packing and annular means being movable with respect to said barrel whereby fluid pressure forces said packing to seal said channel.

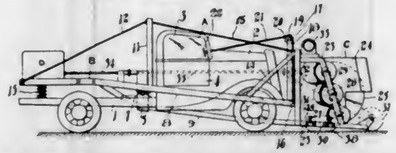
2,169,224

SNOW PLOW

Robert E. Cole, Toronto, Ontario, Canada

Application July 24, 1936, Serial No. 92,340. Renewed November 8, 1938. In Canada June 26, 1936

14 Claims. (Cl. 37—43)



1. In snow removing apparatus, the combination of a supporting frame; a blower mounted centrally of said frame with its axis arranged transversely of the frame; and a plurality of feed conveyors extending transversely of the frame at each side of the blower in spaced vertical relation and discharging directly into the side of the blower; each conveyor being arranged slightly in advance of the conveyor above it.

2,169,225

PROTECTIVE COATING AND PROCESS OF APPLYING AND REMOVING

Lloyd G. Copeman, Flint, Mich., assignor to Copeman Laboratories Company, Flint, Mich., a corporation of Michigan

Application November 4, 1935, Serial No. 48,125, which is a division of application Serial No. 593,279, February 16, 1932, now Patent No. 2,020,255, dated November 5, 1935. Divided and this application June 4, 1937, Serial No. 146,466

5 Claims. (Cl. 280—153.5)



1. An anti-squeak strip for use between a vehicle body and fender, comprising laminations of rubber and fibrous material formed by applying to said body and said fender alternate coats of an aqueous dispersion of rubber and a fibrous material, and allowing the same to solidify.

2,169,226

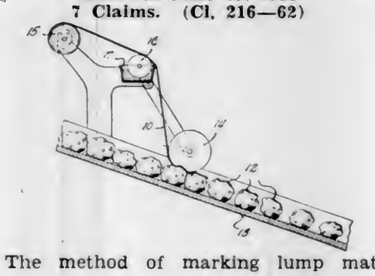
METHOD OF MARKING LUMP MATERIALS

John A. Cormack, Milwaukee, Wis., assignor of one-half to Carl W. Schuchardt, Milwaukee, Wis.

Application March 22, 1937, Serial No. 132,341

Renewed June 25, 1938

7 Claims. (Cl. 216—62)



1. The method of marking lump material which consists in applying a distinctive breakable medium to a mass of such material, affixing said medium to a plurality of lumps contained in said mass, and separating and distributing portions of said medium throughout said mass by relative movement of said lumps within the mass.

2,169,227

MANUFACTURE OF ESTERS

Harold S. Davis and Alfred W. Francis, Woodbury, N. J., assignors to Socony-Vacuum Oil Company, Incorporated, a corporation of New York

No Drawing. Application March 9, 1934, Serial No. 714,823

7 Claims. (Cl. 260—497)

1. In the method of preparing the alkyl fatty acid esters corresponding to a olefine and to an alkyl sulphate of a less easily esterified olefine by the chemical interaction of the fatty acid with the first-mentioned olefine and with the alkyl sulphate, the step which comprises, essentially, bringing the first-mentioned olefine into intimate contact with a substantially non-aqueous liquid comprising essentially the fatty acid and the alkyl sulphate, said liquid being substantially free from uncombined sulphuric acid, whereby the said chemical interaction takes place without the formation of objectionable amounts of impurities such as polymerized olefine, the temperature and pressure of the reaction mixture being sufficiently elevated to produce a substantial speed or rate of chemical interaction between the first-mentioned olefine and the fatty acid but the temperature being below that at which substantial dissociation of the reaction products occurs.

2,169,228

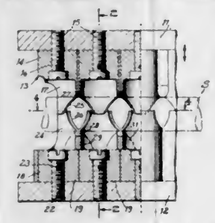
APPARATUS FOR MAKING PRESSURE VESSELS

Robert Debor, Obermenzing by Munich, Germany, assignor to Dominion Oxygen Company, Limited, a corporation of Canada

Application August 7, 1937, Serial No. 157,980

In Germany August 12, 1936

10 Claims. (Cl. 78—60)



1. Apparatus for deforming a cylindrical shell into a series of interconnected hollow spheroids, comprising a cylindrical tube; means for intermittently urging said tube radially inward against said shell; and means for rotating said shell.

2,169,229

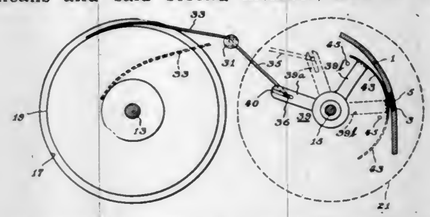
MOTION PICTURE CAMERA

Guillermo A. del Valle, Oaklyn, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application January 31, 1936, Serial No. 61,773

8 Claims. (Cl. 33—172)

1. In a motion picture camera, a device for indicating the footage of unexposed film which comprises a pivotally mounted member adapted to engage the outer turn of film on the supply reel, a second member pivotally mounted in spaced relation to said first named member, means coupling said members whereby movement of one imparts movement to the other, driving means, a slip coupling between said driving means and said second member, said driving



means being adapted to drive said second member in a direction such that it will urge said first named member toward and hold it in engagement with said film, and an indicating element carried by said second member and movable therewith to a position determined by the instantaneous position of said first named member.

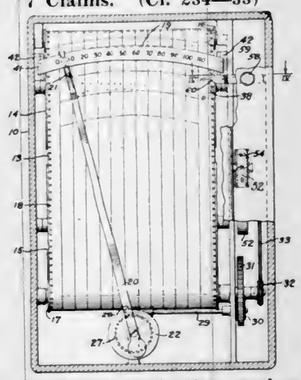
2,169,230

RECORDING SPEEDOMETER

Abramo De Martile, Crockett, Calif.

Application August 6, 1937, Serial No. 157,717

7 Claims. (Cl. 234—33)



4. In a combined indicating and recording speedometer, the combination of a record receiving chart adapted to be driven in synchronism with the travel of a vehicle, a speed responsive device having an indicating pointer adapted to swing transversely across said moving record receiving chart, said chart having mileage indicating graduations arranged along one edge thereof and having graduations corresponding to velocity extending in the direction of travel of said chart, a dial plate having velocity indicating indicia thereupon disposed in front of said chart and with which the pointer of said speed responsive device cooperates to indicate the velocity of the vehicle at any particular mileage point in the travel of the vehicle, said velocity indicating dial being mounted for movement toward said chart, chart perforating means carried by said pointer and movable to perforate said chart when said velocity indicating dial is moved toward said chart, a cam operated mechanism driven in synchronism with said chart having a cam engaging lever connected to said velocity indicating dial plate to cause said dial plate to periodically move toward said chart to effect a perforation thereof

to record upon said chart the velocity obtaining at that time, and a second lever associated with said first lever also cooperating with said cam and operating to move said first lever out of engagement with said cam to prevent the chart perforating means from interfering with the normal movement of said record receiving chart.

2,169,231

HYDRAULIC BRAKE FLUID

Harvey R. Fife, Pittsburgh, Pa., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application July 10, 1937, Serial No. 152,989

6 Claims. (Cl. 252—5)

1. A hydraulic brake fluid comprising a glycol ether from the group consisting of alkylene and polyalkylene glycol monoalkyl ethers having not more than two carbon atoms in the alkyl radical in admixture with a materially less amount of a glycol ether from the group consisting of the mono- and dialkyl ethers of the mono- and polyalkylene glycols having at least three carbon atoms in the alkyl radical thereof and combined with an amount of castor oil at least as great as any other ingredient, said brake fluid being characterized by a greater miscibility at low temperature with castor oil than fluids comprising the first group of the aforesaid glycol ethers and being further characterized by a lesser swelling action for rubber than fluids comprising the second group of the aforesaid glycol ethers.

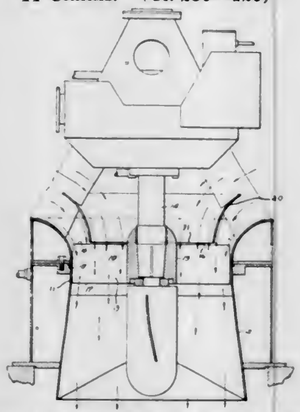
2,169,232

BLOWER APPARATUS

Warren B. Flanders, Philadelphia, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Continuation of application Serial No. 163,727 September 14, 1937. This application April 8, 1939, Serial No. 266,775

11 Claims. (Cl. 230—120)



1. In fluid translating apparatus, a converging-diverging casing having a throat portion; a propeller arranged in the throat portion and including a hub and a plurality of blades defining flow passages therebetween; said blades having radially-extending inlet edges and discharge lateral edges and tip edges conforming to and having close running clearance with respect to the interior of the throat portion for at least the major portion of the axial length of the latter; and wall means carried by the casing and extending circumferentially at one side of the propeller to provide for flow of fluid as annuli therein and thereabout; said wall means being arranged in the direction of flow in the portion of the casing within which it is located and having an edge disposed transversely of the length of the adjacent blade edges, intermediately of the length of the latter, and with running clearance spacing with respect thereto to afford such resistance to recirculation of fluid that pressure pulsations thereof are substantially reduced.

2,169,233

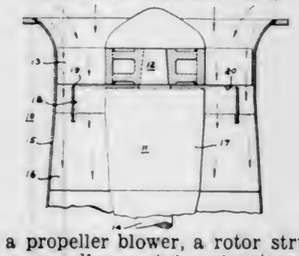
BLOWER APPARATUS

Alexander I. Ponomareff, Drexel Hill, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 27, 1937, Serial No. 176,900

Renewed June 1, 1939

2 Claims. (Cl. 230—120)



1. In a propeller blower, a rotor structure including a propeller, a stator structure including a casing encompassing the propeller, guide vanes at the discharge side of the latter, and circumferentially-extending baffle means carried by the stator structure, said baffle means extending in the direction of fluid flow and having its inlet edge disposed contiguously to the leaving edges of the propeller blades so as to resist recirculation of medium translated by the propeller.

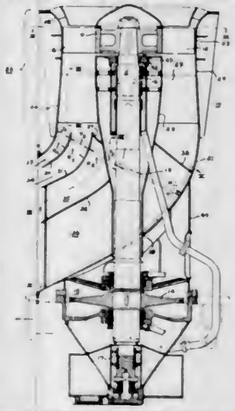
2,169,234

BLOWER APPARATUS

Alexander I. Ponomareff, Springfield, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application November 27, 1937, Serial No. 176,899

13 Claims. (Cl. 230—116)



1. In a propeller blower, a propeller; a casing having straight and elbow portions; said straight portion encompassing the propeller and having a diverging part at the discharge side of the latter joined to the elbow portion; means for driving the propeller including a drive shaft extending through the elbow portion wall, coaxial with said straight portion, and connected to the propeller; splitter vanes in the elbow portion and curved in the same general direction as the latter for dividing the passage thereof into a plurality of curved passages of progressively increasing radii of curvature from the convex to the concave interior sides of the elbow portion; a shaft tube encompassing the shaft, having one end arranged adjacent to the propeller and having its other end opening through the elbow wall; said other end being carried by the elbow wall and terminating adjacent thereto; guide vanes in the diverging part of said straight portion; said guide vanes having their outer ends attached to the casing and their inner ends attached to the shaft tube; a bearing for the shaft carried interiorly by the end of the shaft tube adjacent to the propeller; means for supplying lubricant to the bearing; sealing means between the bearing and the propeller and including an annular chamber encompassing the shaft; and means for supplying air to said chamber from the exterior of the casing and including said shaft tube.

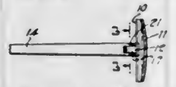
2,169,235

SPECTACLE TEMPLE CONNECTION

Joseph C. Foster, Leominster, Mass., assignor to Fosgood Corporation, Leominster, Mass., a corporation of Massachusetts

Application July 6, 1936, Serial No. 89,026

3 Claims. (Cl. 88—53)



1. A spectacle frame and temple assembly comprising a frame member and a temple bar member, a two part integral extension extending from one of said members, said two parts being at all times immobile and fixedly spaced with respect to each other, a single integral extension from the other of said members adapted to fit between the two part extension of the first member, a hole bored in said extension of said single extension member and projections forced in the material of the members into each fixedly spaced part of said two part extension member to fit into the ends of the hole of said single extension member whereby a pivotal connection is formed between the frame and temple.

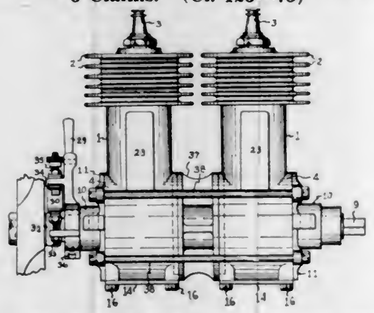
2,169,236

INTERNAL COMBUSTION ENGINE

Orville Z. Frazier, Elkhart, Ind., assignor of one-half to Robert Henry Frederick, Detroit, Mich.

Application September 8, 1937, Serial No. 162,913

3 Claims. (Cl. 123—73)



1. In an internal combustion engine, two engine units each comprising a crank case and a cylinder mounted on the crank case, a crank shaft formed with a crank in each crank case, a spacer interposed between the two crank cases and establishing clearance for said cylinders, and means spanned across the spacer extending exteriorly of the crank cases and outwardly from the spacer for interconnecting the crank cases and clamping said spacer rigidly between the crank cases.

2,169,237

STATIONARY ORNAMENT FOR WHEEL HUB CAPS

Pete Gasco, Torrance, Calif.

Application January 4, 1938, Serial No. 183,296

8 Claims. (Cl. 40—129)



1. In a device as described, a wheel element, a journal structure connected to the axial center of said element, a vane having a rotatable mounting in the journal, said vane having a surface constructed and adapted to react to the drag and lift of a head-on air flow past the axial center when the wheel travels in a forward direction on the ground whereby the drag reaction of the air flow maintains the vane from rotation in relation to the wheel element.

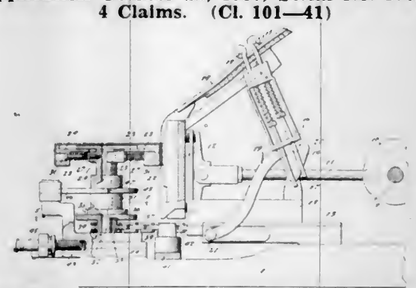
2,169,238

BOX-MARKING MACHINE

John H. Garrott, Pawtucket, R. I., assignor to The Clark Thread Company, Newark, N. J., a corporation of New Jersey

Application October 22, 1937, Serial No. 170,331

4 Claims. (Cl. 101—41)



2. In combination, a turntable having a shaft and a support extending across one end of the shaft and adapted to support a box thereon, with an edge portion of the box overhanging the edge of the support, a reciprocable platen movable to and from a position wherein it may engage said edge portion of the box, means actuated by movement of said platen to rotate the turntable a predetermined amount to bring another part of said edge portion of the box into position to be engaged by the platen, and means to reciprocate said platen.

2,169,239
CONTAINER CLOSURE AND DISPENSING DEVICE

Edward Richard Hacmac, Hollywood, Calif., assignor to Na-Mac Products Company, a corporation of California

Application October 28, 1938, Serial No. 237,506
2 Claims. (Cl. 221—14)



1. A closure and dispensing device for a container, comprising a cap adapted to replace the container cap and formed from a single piece of sheet metal, a collar on said cap for fitting onto the container, a neck portion above said collar and having a spout and guideway therein, means in said guideway adapted to be moved to close said spout and shear the flow therefrom, a skirt below said collar and having upstanding lugs thereon, a member mounted for oscillation on said lugs and connected to said closure, said member being adapted for use as a handle and to reciprocate said closure.

2,169,240
PHENOL COMPOSITION

Sheldon B. Heath and Merlin O. Keller, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 5, 1937, Serial No. 167,411
11 Claims. (Cl. 167—31)

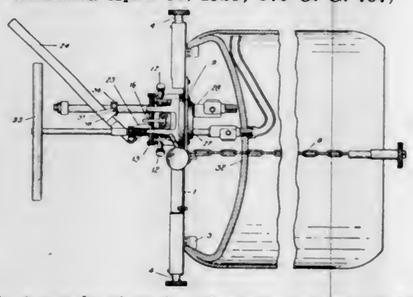
1. A roughly comminuted composition of matter comprising as major constituents a solid phenol compound and starch, the latter being in solid suspension in said phenol, which composition is capable of disintegrating on contact with water to form a suspension comprising the solid phenol compound in finely divided form.

11. A composition comprising a solid suspension of starch in 2.4-dinitro-6-methyl phenol and prepared by stirring starch into molten 2.4-dinitro-6-methyl phenol, thereafter cooling the mixture to solidify the same, and roughly comminuting the resulting solid cake.

2,169,241
VALVE REPLACEMENT MECHANISM

Frank B. Hale, Bel Air, Md.

Application September 21, 1937, Serial No. 164,913
9 Claims. (Cl. 29—84)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

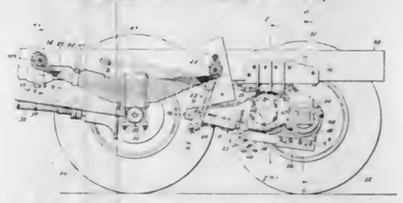


1. A mechanism for changing valves of filled containers comprising a plate adapted to be secured to the container, a rotatable member having parallel openings equally spaced from the axis of rotation of said member, a valve wrench in each opening, means for universally supporting said member on said plate for rotation around said axis and for oscillation to change the angle of said axis to said plate, and means for securing said rotatable member against oscillation and in a predetermined angular position while allowing free rotation of said member about the axis as previously located.

2,169,242
VEHICLE SPRING SUSPENSION

Albert F. Hickman, Eden, N. Y., assignor to Hickman Pneumatic Seat Co., Inc., Eden, N. Y., a corporation of New York

Original application November 6, 1933, Serial No. 696,803. Divided and this application January 28, 1936, Serial No. 61,200
8 Claims. (Cl. 280—104)

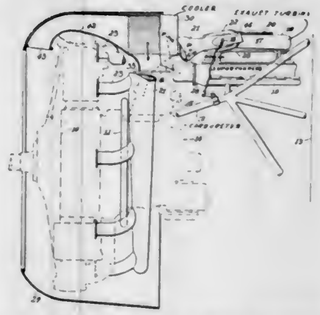


1. A vehicle suspension comprising: a chassis frame; an equalizing member; means movably connecting said equalizing member with said frame; an axle provided with a wheel and movably connected with said equalizing member; a backing plate mounted on said axle; and a resilient torque arm connected at opposite ends respectively with said backing plate and said equalizing member and capable of resisting rotation of said backing plate relatively to said equalizing member, but resiliently permitting all other movements of said backing plate relatively to said equalizing member.

2,169,243
SUPERCHARGER AND COOLER ARRANGEMENT

Vinton Higbie, Paterson, N. J., assignor to Wright Aeronautical Corporation, a corporation of New York

Application January 9, 1937, Serial No. 119,837
5 Claims. (Cl. 60—13)



1. In an aircraft power plant including an engine, a close-coupled turbo supercharger-cooler arrangement comprising a downwardly discharging cooler discharging directly into the intake duct of said engine, said cooler having spaced downwardly directed intake openings, laterally spaced to embrace the cooler discharge opening, and laterally spaced outlet ducts for the supercharger directly connected to said cooler at said intake openings.

2,169,244
FERMENTATION PROCESS

Frank M. Hildebrandt, Baltimore, and Norris M. Erb, Riviera Beach, Md., assignors to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia

No Drawing. Application June 30, 1937, Serial No. 151,177
4 Claims. (Cl. 195—37)

3. A process of yeast fermentation of molasses mash for production of alcohol, which process is conducted in two stages and comprises: inoculating with yeast a mash containing, as a source of sugar, still residue from a molasses fermentation, aerating this mash until substantially all the yeast crop for the subsequent stage of the process is grown, then increasing the sugar content of the mash to upwards of 15 grams of sugar to 100 cc. of mash by adding molasses, stopping the aeration, and allowing the fermentation for alcohol to go to completion.

2,169,245
GLYCEROL FERMENTATION PROCESS

Frank M. Hildebrandt, Baltimore, and Norris M. Erb, Riviera Beach, Md., assignors to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia

No Drawing. Application June 30, 1937, Serial No. 151,178
6 Claims. (Cl. 195—38)

1. A process for the production of glycerol and ethanol by yeast fermentation, which comprises seeding a mash of low sugar content with yeast, aerating this mash until substantially all the yeast crop for the glycerol-ethanol fermentation is grown, then greatly increasing the sugar content of the mash, stopping the aeration, and carrying the glycerol-ethanol fermentation to completion in the presence of an agent having the property of causing an increase in the glycerol-ethanol ratio, which agent is introduced into the mash after substantially all the yeast crop has been grown.

2,169,246
BUTYL ACETONE FERMENTATION PROCESS

Frank M. Hildebrandt, Baltimore, and Norris M. Erb, Riviera Beach, Md., assignors to U. S. Industrial Alcohol Co., New York, N. Y., a corporation of West Virginia

No Drawing. Application July 15, 1937, Serial No. 153,784
6 Claims. (Cl. 195—44)

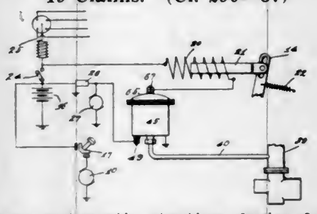
1. The process of producing solvents, principally butyl alcohol and acetone, by fermentation, which comprises seeding a sterilized, inverted molasses mash with a culture of the herein described micro-organism *Clostridium celerifactor*, and carrying out the fermentation.

6. The process of claim 1 of producing solvents, principally butyl alcohol and acetone, by fermentation, in which the mash is prepared by adding to a solution of molasses, autolyzed yeast and sulfuric acid, heating this acidified material to invert the sucrose and sterilize the material, then diluting with sterile water containing ammonia and adding sterile chalk, and in which, further, the seed culture is applied quietly on top of the mash, so that the seed culture forms an undisturbed layer on the mash surface.

2,169,247
AUTOMATIC STARTING DEVICE

Robert H. Hill, Anderson, Ind., and Kenneth R. Blake, Detroit, Mich.

Application November 17, 1930, Serial No. 496,162
Renewed September 16, 1937
19 Claims. (Cl. 290—37)

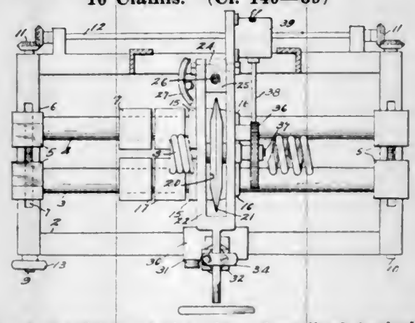


3. In an automatic starting device for an internal combustion engine having an intake manifold, an engine-starter, automatically operated mechanism for rendering said engine-starter inoperative after the engine has begun to run under its own power, and means operable only after the actuation of said mechanism and responsive to the pressure in said intake manifold for maintaining said engine-starter inoperative.

2,169,248
MACHINE FOR PITCHING THE COILS OF HELICAL SPRINGS

Frank O. Holister, Los Angeles, Calif.

Application April 4, 1938, Serial No. 199,977
16 Claims. (Cl. 140—89)



1. A machine of the class described including means to rollably support a spring lengthwise, a circularly edged wedge disc, and means to rotatively support the disc and force it between adjacent coils of the spring and means for adjusting the radial and the angular position of the disc as to the spring axis and for securing it against change during rotation of the spring.

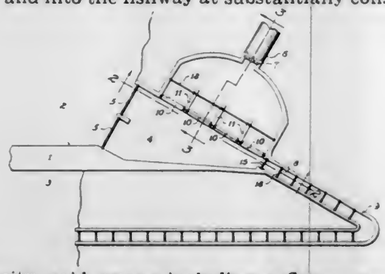
2,169,249
METHOD OF AND MEANS FOR EFFECTING DOWNSTREAM MIGRATION OF FISH ABOUT DAMS

Harlan B. Holmes and Henry F. Blood, Portland, Oreg., and Milo C. Bell, Seattle, Wash., assignors to the Government of the United States of America, as represented by the Secretary of War

Application March 1, 1938, Serial No. 193,294
4 Claims. (Cl. 61—21)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

4. In a fingerling by-pass for dams and the

like, a dam structure including a forebay, a tailrace and entry bay disposed on the upstream side of the dam structure and in open communication with the forebay, a fishway extending between the entry bay and the tailrace, means in connection with the entry bay and the fishway for directing a flow of water through the entry bay and into the fishway at substantially constant



velocity, said means including a flume screened at one end and having its screened end in communication with the entry bay, and valve controlled means associated with the flume for withdrawing a portion of the water from the entry bay as a water conservation measure without affecting the velocity and prevailing direction of flow through the entry bay into the fishway.

2,169,250

PROCESS OF FORMING FILMS, THREADS, AND THE LIKE

Emmette F. Izard, Kenmore, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 27, 1937, Serial No. 145,117

8 Claims. (Cl. 18—54)

1. The method of forming films, threads, and the like from polyvinyl alcohol comprising forming an aqueous solution of polyvinyl alcohol and a polycarboxylic acid in which the carboxyl groups are separated by at least two carbon atoms, forming said solution into a film, thread, or the like, and heating the thus formed structure at a temperature sufficient to cause said polyvinyl alcohol to react with said polycarboxylic acid to form a cross-linked structure insoluble in water and most solvents.

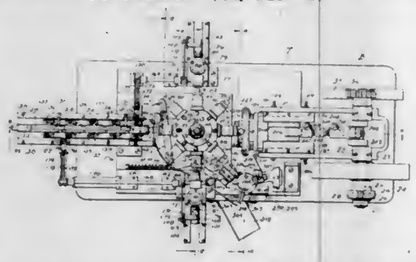
2,169,251

SPOOL-MAKING APPARATUS

John A. Johnson, Woodhaven, N. Y.

Application October 15, 1936, Serial No. 105,686

34 Claims. (Cl. 113—1)



1. In apparatus for making sheet metal spools, a rotatable support, means to position a flange on said support, means to engage an end portion of a core with the flange on the support, means to engage another flange on the opposite end portion of the core on the support, means to secure the flanges to the core and form a spool on the support, means to eject the formed spool from the support, and means to actuate the support to positions relative to the successive operating means.

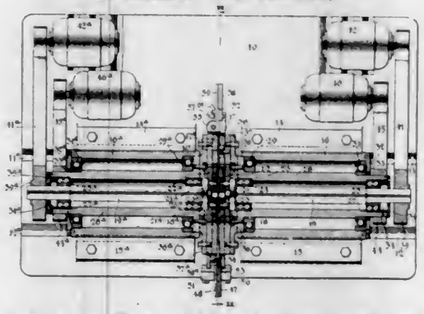
2,169,252

GRINDING MACHINE

Emil A. Koether, Baltimore, Md., assignor, by mesne assignments, to Koppers Company, a corporation of Delaware

Application July 23, 1936, Serial No. 92,259

12 Claims. (Cl. 51—112)



1. In a grinding machine, the combination of a flat face grinding member; a second member facing the same, one of said members at least comprising two independent concentrically arranged grinding elements rotatable independently of one another about a common axis; and means for rotating said members and the concentrically arranged elements independently of each other.

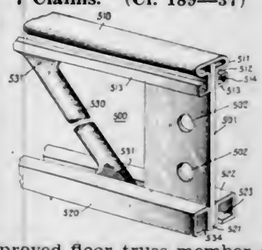
2,169,253

BUILDING STRUCTURE AND PARTS THEREFOR

Guy F. Kotrbaty, New York, N. Y., assignor to Ferrocon Corporation, Bryn Mawr, Pa., a corporation of Delaware

Original application December 20, 1934, Serial No. 758,345. Divided and this application October 1, 1935, Serial No. 43,018

7 Claims. (Cl. 189—37)



1. An improved floor truss member comprising a channeled bottom chord member having stiffened side sections of generally tubular cross-section, a top chord member having a flat body portion with lateral inturned gripping portions terminating in rolled flange sections having inturned stiffening edges, tubular pin members having flattened ends respectively disposed in the channels of the top and bottom chord members and secured thereto, and apertured end connection plates disposed in the said several channeled chords and at the ends of the said truss members.

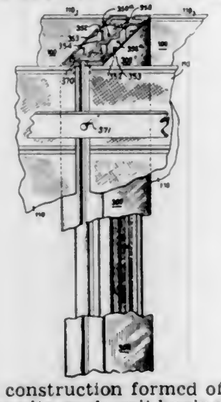
2,169,254

COMPOSITE STRUCTURAL MEMBER AND BUILDING UNIT

Guy F. Kotrbaty, Chestnut Hill, Pa., assignor to Ferrocon Corporation, Bryn Mawr, Pa., a corporation of Delaware

Original application October 1, 1935, Serial No. 43,017. Divided and this application October 4, 1937, Serial No. 167,246

2 Claims. (Cl. 189—34)



1. A wall construction formed of self-supporting building units, each unit having spaced panels secured to and spaced by channel members formed with locking pleated sections terminating in locking flanges and forming auxiliary keyways, key members between abutted units and holding contacting locking flanges thereof in locked relation, nail-receiving and gripping members in said auxiliary keyways, nailable surfacings over the units, said surfacings being secured to and on the said units by nails driven therethrough and into the nail-receiving and gripping members disposed in the auxiliary keyways.

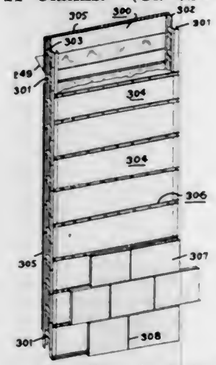
2,169,255

BUILDING UNIT AND ELEMENT

Guy F. Kotrbaty, Chestnut Hill, Pa., assignor to Fer-O-Con Corporation, New York, N. Y., a corporation of Delaware

Original application April 22, 1935, Serial No. 17,591. Divided and this application December 7, 1937, Serial No. 178,619

11 Claims. (Cl. 72—1)



1. A wall construction, including, in combination, hollow vertical supporting members of generally rectangular cross-section, keying apertures in the longitudinal edges of the same, and wall panels secured on either side of the said post member, the said wall sections comprising composite wall panel members abutted back-to-back, each of said composite wall sections comprising a two-part body portion of laminated construction, the edges of the inner lamina being provided with metallic surfacing and protected by having an outwardly extending flange portion, the said first lamina and extending flange section supporting and securing a second lamina with cementitious securing means disposed between the two said laminae; locking tongued members associated with the exterior surfaces of the said end-supporting and protecting members and adapted to be engaged by and held in the said post members; and exterior finish surfacings disposed over said members and extending beyond the edges thereof a sufficient distance to permit the abutment of the said edges with other like members over the exterior faces of the supporting posts whereby to provide substantially hair-line joints between adjacent and aligned wall sections.

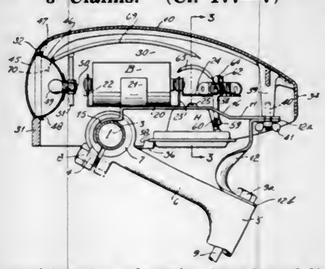
2,169,256

CYCLE FIXTURE

Herman L. Kraeft, Cleveland Heights, Ohio, assignor to The Murray-Ohio Manufacturing Company, Cleveland, Ohio, a corporation of Ohio

Application April 19, 1937, Serial No. 137,629

3 Claims. (Cl. 177—7)



1. A combination electric signal and light unit for cycles comprising a base member adapted and arranged to be supported by a handle-bar assembly of a cycle, a battery and sound instrument mounted on the base, the instrument being electrically connected to one terminal of the battery by conductor means on said base, a cap detachably supported by the base, an electric light mounted inside the cap and exposed through one of its walls, conductor means on the cap for connecting the light to the battery, conductor means on the cap for completing the circuit from the sound instrument to the other pole of the battery, each of said means including a switch which switches are respectively adapted and arranged to render the light and instrument operative and inoperative, said conductor means of the base and cap being rendered effective subject to the control of the switches to establish the aforesaid circuits when the cap is attached to the base and ineffective when detached from the base.

2,169,257

MULTIFREQUENCY SIGNALING APPARATUS

William N. Krebs, Baltimore, Md., and Donald W. Seiler, Washington, D. C.

Application May 24, 1930, Serial No. 455,399

4 Claims. (Cl. 250—40)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a high frequency electrical system, a ro-

tatable disc member shiftable to different angular positions, a multiplicity of inductance units carried by said rotatable disc member, a high frequency electrical circuit terminating in fixed contacts adjacent one side of said rotatable disc member, contacts carried by said disc member in cooperative relation to said fixed contacts and connected with the inductance units, and a circuit maker and breaker including a stationary



contact and a movable contact, the rotatable disc being provided with sockets corresponding in number to the inductance units, abutments removably mounted in said sockets to engage the movable contact and close the circuit breaker as the disc is rotated for modifying an associated electrical capacity in said high frequency electrical circuit for cooperative relation with a selected inductance unit.

2,169,258

POWDER PUFF AND METHOD OF MAKING SAME

George Laitman, Brooklyn, N. Y.

Application August 4, 1938, Serial No. 222,981

9 Claims. (Cl. 132—78.5)



1. In a method of making powder puffs, the steps of providing two blanks of covering material each having a projecting lip thereon, placing said blanks together in facing relation and with the said lips in registry, fastening the blanks together at the peripheral portions thereof outside of the lips whereby a casing is formed with an opening between the said lips, and turning the casing inside out through said opening in preparation for finishing operations.

2,169,259

GARTER

Harry W. Lakin, Boston, Mass.

Application November 13, 1937, Serial No. 174,390

6 Claims. (Cl. 24—243)



3. In a suspender, a strap, a clasp comprising two stiff separable members having cooperating jaws, the strap extending through one of said members in freely sliding engagement therewith and having a non-sliding connection with the other member, at points between the jaws and the relatively opposite ends of the respective members.

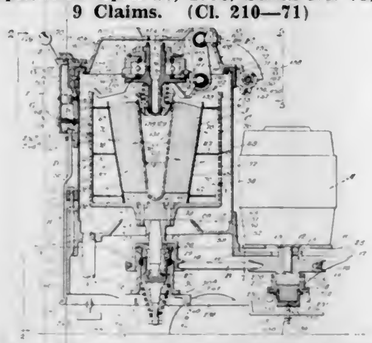
2,169,260

SAFETY DEVICE

Fritz Lambach, Belleville, N. J., assignor to American Textile Engineering Inc., Kearny, N. J., a corporation of New Jersey

Application April 20, 1936, Serial No. 75,344

9 Claims. (Cl. 210—71)



1. A centrifugal apparatus having a casing, a rotatable member therein, a motor to rotate said rotatable member at a high speed, a circuit provided with a switch to control starting and stopping of said motor, said rotatable member being provided with a carrier for material to be processed and said casing being provided with an opening to enable access to said material, and insertion and removal thereof, a cover for said opening, a holder for holding said material in said carrier having a linked connection to said cover permitting rotation between the holder and the cover, a cover latch for holding said cover on said casing, and another switch on said circuit opening said circuit unless said cover is closed.

2,169,261

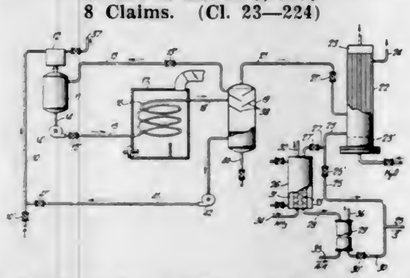
PROCESS FOR PURIFYING SULPHUR

Clarence O. Lee and Homer A. Smith, Port Sulphur, La., assignors, by mesne assignments, to Freeport Sulphur Company, a corporation of Delaware

Application March 24, 1936, Serial No. 70,572

Renewed March 9, 1938

8 Claims. (Cl. 23—224)



1. A process for purifying crude sulphur that contains a hydrocarbon impurity, which comprises relatively rapidly heating the crude sulphur in the liquid state by contact with sulphur vapor to a temperature relatively near the boiling point to react the sulphur with said impurity, thereafter continuing the heating substantially to complete the reaction of the sulphur with said impurity and produce a distillate consisting of

sulphur vapor and a volatile product together with a sludge or bottom, and then separating the sulphur vapor from the volatile impurity whereby a highly purified sulphur product is obtained.

7. In a process for purifying crude sulphur that contains a hydro-carbon impurity, the steps which comprise heating the crude sulphur in the liquid state rapidly through the viscous temperature range by contacting the liquid sulphur with sulphur vapor, and then further heating the liquid sulphur to an elevated temperature in the neighborhood of the boiling point and holding the same at said elevated temperature for a period of time such that a carbon residue results from the reaction of sulphur with the hydrocarbon impurity.

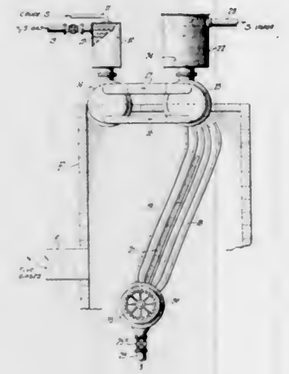
2,169,262

APPARATUS FOR PURIFYING SULPHUR

Clarence O. Lee and Homer A. Smith, Port Sulphur, La., assignors to Freeport Sulphur Company, Freeport, Tex., a corporation of Delaware

Application October 2, 1937, Serial No. 166,942

10 Claims. (Cl. 23—264)



1. Apparatus for purifying sulphur comprising the combination with means for supplying crude molten sulphur, of a distillation unit connected for receiving the molten sulphur supplied and comprising a sulphur retaining drum, an associated drum having vapor and liquid pipe connections leading to said retaining drum at points respectively above and below the normal liquid level therein, a bottom drum, and a plurality of sets of risers connecting said bottom drum to said associated drum at a plurality of different levels thereby establishing a thermal siphon to circulate molten sulphur, means for passing products of combustion about said risers and drums to heat the same, a chamber interposed in said sulphur supply and having free communication with said retaining drum adjacent the end removed from said vapor and liquid connections, liquid sulphur dispersing means interposed in said chamber for dividing the crude molten sulphur and effecting the rapid heating of the same by permitting contact with the sulphur vapor supplied, a vapor collecting dome connected to said associated drum at the end remote from said vapor and liquid connections, and means for withdrawing sulphur vapor collected as sulphur distillate in said collecting dome.

2,169,263

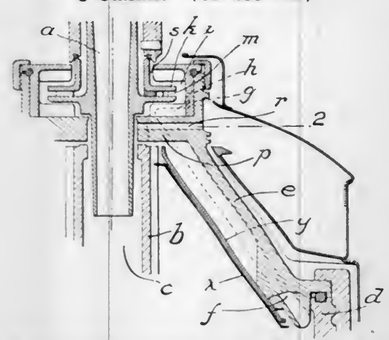
CENTRIFUGAL SEPARATOR

Hans Olof Lindgren, Appelviken, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey

Application September 7, 1935, Serial No. 39,510

In Sweden January 21, 1935

3 Claims. (Cl. 233—22)



2. A centrifugal separator comprising a rotary bowl including a bowl shell and a bowl top and provided with a separating chamber and an auxiliary chamber rotating with the bowl and communicating with the separating chamber, and a disc-shaped paring device whose periphery is adapted to be submerged in the separated liquid in said auxiliary chamber and when so submerged exclude gaseous communication between the bowl and the atmosphere by way of said auxiliary chamber, there being formed in the bowl top below said auxiliary chamber a passage whose outer end opens outside the bowl and whose inner end communicates with the space in said auxiliary chamber below the paring device and with said separating chamber.

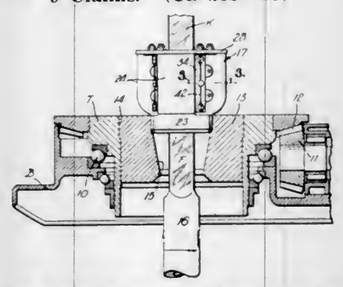
2,169,264

BUSHING

Spencer W. Long, Inglewood, Calif., assignor to Baash-Ross Tool Company, Los Angeles, Calif., a corporation of California

Application July 2, 1938, Serial No. 217,271

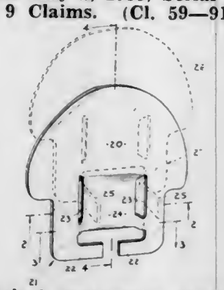
9 Claims. (Cl. 255—23)



1. A rotary table bushing for driving a polygonal stem comprising a body having an opening for passing the stem and provided with spaced vertical ribs, each rib having a recess extending downwardly from its upper end and opening inwardly to said opening and having aligned transverse openings, pins carried in said transverse openings to pass through the recesses, rollers rotatable on the pins in the recesses and projecting into the body opening to contact the stem, there being a notch in an end of each pin, and

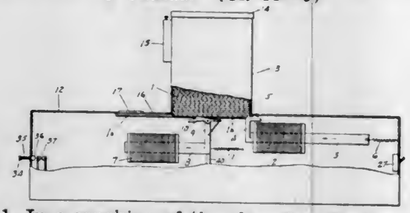
bars attached to the sides of the ribs and cooperating with the notches to hold the pins against movement.

2,169,265
LINKED ORNAMENTAL CHAIN
Robert Mantz, New York, N. Y., assignor to City Novelty Corporation, New York, N. Y.
Application May 2, 1939, Serial No. 271,247
9 Claims. (Cl. 59—91)



1. In a linked ornamental chain, a series of identical flat chain elements arranged in overlapping relation, each chain element comprising a forward ornamental area and a rearward attachment area, the latter having a longitudinal slit at each side of its midportion and a pair of transverse prongs at its rear end, each set of prongs extending through the slits of the rearwardly adjacent chain element, and each ornamental area lying over and thereby concealing the attachment area of the forwardly adjacent chain element.

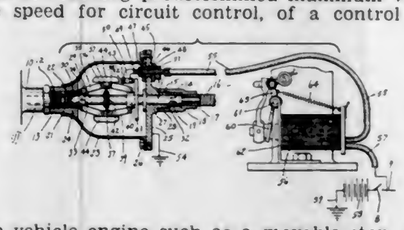
2,169,266
GAME
Gustave O. Matter, Portland, Oreg.
Application November 1, 1937, Serial No. 172,087
3 Claims. (Cl. 35—9)



1. In a machine of the class described, a container, a plurality of cards in said container that substantially fit the inner cross-section thereof and solenoid operated hooks that are effective to partially remove one card from the bottom of those in the container and expose it partially to view and another solenoid operated means that is effective to move the card to cover a part thereof theretofore exposed and to uncover the part that was concealed by the first operation.

2,169,267
VEHICLE SPEED ENGINE LIMITING DEVICE
Neel M. McCullough, Anderson, Ind., assignor to Pierce Governor Company, Anderson, Ind., a corporation
Application July 17, 1936, Serial No. 91,213
5 Claims. (Cl. 175—355)

1. In a vehicle having a driving outlet such as a speedometer drive operable proportional to the vehicle speed and/or adapted for detachable connection to a speed indicating device such as a speedometer, the combination with a drive attachment detachably interposed therebetween for speedometer or like driving and including a speed responsive means operable thereby and movable proportional to the vehicle speed, and switch means arranged for actuation upon the vehicle reaching predetermined maximum vehicle speed for circuit control, of a control for



the vehicle engine such as a movable stop, and electrical means operatively associated with the movable control for controlling vehicle speed through engine fuel control to prevent overspeeding of the vehicle and when the switch means is actuated.

2,169,268
SPEEDOMETER VEHICLE SPEED CONTROL DEVICE
Neel M. McCullough, Anderson, Ind., assignor to Pierce-Governor Company, Anderson, Ind., a corporation
Application September 14, 1936, Serial No. 100,650
2 Claims. (Cl. 125—355)

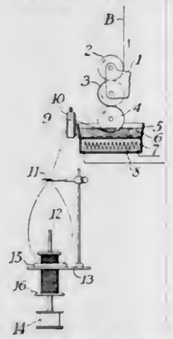


1. In a control structure, the combination with a speedometer having a speed responsive indicator movable proportional to vehicle speed, a relatively stationary dial, and a housing for indicator operating means, of a support arcuately adjustable on the housing upon an axis coincident with the axis of indicator movement, an angular member carried thereby, the dial having an elongated, coaxial, arcuate slot therein through which one portion of the member projects toward the indicator, another portion of the angular member lying parallel to the dial and between the same and the indicator for latter engagement when the indicator is moved into registration therewith, the said second mentioned portion of the angular member being elongated arcuately and coaxially with reference to the indicator axis, and means securing the support to the housing in the adjusted position.

2,169,269
CELLULOSE ACETATE CREPE YARNS AND FABRICS, AND THEIR MANUFACTURE
James G. McNally, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey
No Drawing. Application February 1, 1936, Serial No. 62,007
3 Claims. (Cl. 57—157)

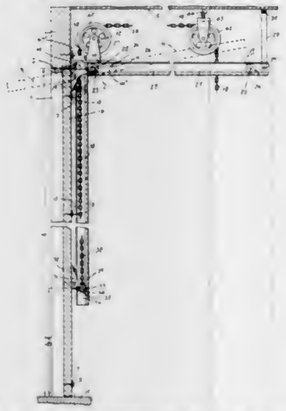
1. A process of producing a highly twisted cellulose organic acid ester crepe yarn capable, when woven into a crepe fabric construction, of producing a true crepe effect when the twist is released, which comprises treating cellulose organic acid ester yarn with an aqueous softening and swelling bath having substantially the same swelling effect as water alone and maintained at ordinary room temperature and twisting the yarn with a minimum of stretch while in a softened and swollen condition due to the presence in the yarn of an appreciable amount of water, and setting the twist without thermoplastically molding the yarn by drying simultaneously with or shortly after the twisting operation.

2,169,270
MANUFACTURE OF CELLULOSE ORGANIC ACID ESTER CREPE YARNS
James G. McNally, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application January 21, 1937, Serial No. 121,555
8 Claims. (Cl. 57—140)



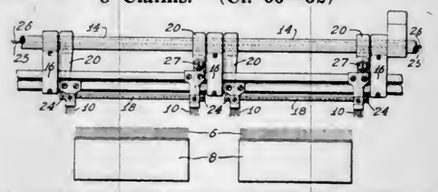
1. A cellulose organic acid ester crepe twisted yarn having a twist in the order of from 65 turns per inch for 100 denier to 50 turns for 200 denier, said yarn after twisting having a final denier approximately 110–125% of its original denier, a twist takeup of approximately 15–25%, an extension of not over about 5% and a breaking load of the order of 0.8–0.9 gram per denier and an extension at break of the order of 15–25% of its length, and having the ability, when woven into an appropriate construction, of producing a true crepe fabric when the twist is released.

2,169,271
OVERHEAD DOOR CONSTRUCTION
Clark D. Michael, Huntington, Ind.
Application March 2, 1935, Serial No. 10,278
3 Claims. (Cl. 16—94)



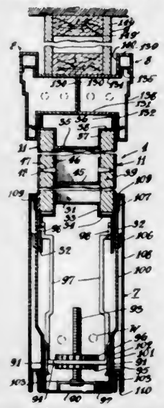
1. In a door structure having a substantially horizontal trackway, and a substantially vertical trackway at one side of the door, the trackways having adjacent ends, the combination of a junction bracket for connecting the same together and to a door frame and including a tubular pivot with its axis in alignment with the vertical trackway, pulley, and a pulley supporting horn swivelled on the pivot and including a tubular pivot portion, the axis of the tubularity being tangential to the wheel periphery.

2,169,272
TEXTILE MACHINERY
Max C. Miller, Cumberland, R. I.
Application February 16, 1938, Serial No. 190,775
8 Claims. (Cl. 66—82)



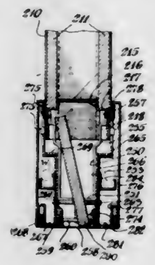
1. In a flat full-fashioned knitting machine, an illuminating system comprising supporting means on the machine, and a source of light supported thereon above and extending substantially the length of the needle series for even and shadowless illumination of the same.

2,169,273
PARTITION STRUCTURE
George M. Mills, Cleveland, Ohio, assignor to The Mills Company, Cleveland, Ohio, a corporation of Ohio
Application April 30, 1936, Serial No. 77,268
19 Claims. (Cl. 189—34)



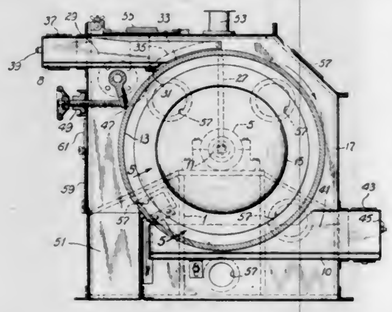
12. A partition structure comprising in combination a plurality of panel units, each of said panel units comprising generally channel shaped metal frame members extending along the vertical and horizontal edges of the panel unit, generally channel shaped metal strut members intermediate said frame members, wall-forming metal panel sheets extending over the faces of said panel units, spaced filler sheets of insulating material extending along the sides of said panel unit between said struts and said panel sheets, means intermediate the ends of said strut members for attaching said strut members to said filler sheets, and means securing said panel sheets to said frame members adjacent the edges of said panel unit.

2,169,274
PARTITION STRUCTURE
George M. Mills, Cleveland, Ohio, assignor to The Mills Company, Cleveland, Ohio, a corporation of Ohio
Application March 1, 1937, Serial No. 128,527
8 Claims. (Cl. 189—34)



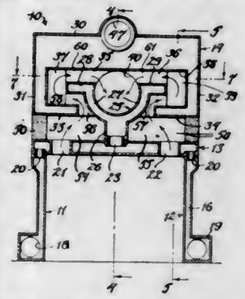
8. A partition structure comprising a plurality of panel units, a floor member extending along said panel units, means mounting said panel units for vertical adjustment relative to said floor member, a base member engaging and extending between said floor member and a panel unit and having a sliding connection with at least said panel unit, a service line receptacle positioned by said base member, and a base cover extending along the base of said partition and hiding said receptacle.

2,169,275
FLAKER
Frank R. Murphy, Mount Vernon, Ill., assignor to J. P. Devine Manufacturing Co., Inc., Mount Vernon, Ill., a corporation of Illinois
Application March 27, 1937, Serial No. 133,474
6 Claims. (Cl. 257—98)



6. A flaker comprising a rotating cooling member, a liquor feeder on one side of the cooling member and carrying liquor which is applied to said cooling member, another liquor feeder on another side of said cooling member carrying liquor which is applied to said cooling member, the distance between said feeders being such as to permit solidification of the layer applied by the first feeder before the second feeder applies its layer and a scraper located between said feeders at a region on the cooling member where it travels from one feeder to the other, the distance between the scraper and the second-named feeder permitting solidification of the second layer on the first layer.

2,169,276
BOILER
Harry S. Murphy, Attica, N. Y., assignor to Cooney Refrigeration Company, Inc., Buffalo, N. Y., a corporation of New York
Application October 20, 1936, Serial No. 106,577
10 Claims. (Cl. 122—225)



10. A sectional boiler comprising a plurality of vertical, transversely disposed boiler sections arranged face to face, each of said sections comprising a lower horizontal hollow portion over the combustion chamber, an upper main hollow boiler portion arranged above said lower portion, means providing a single restricted vertical jet submerged under a substantial head of water providing the sole means of internal communication between said lower portion and main portion said jet being disposed over a direct fired surface on which steam is formed whereby the steam bubbles from said lower portion are discharged violently upward into said main portion, an outlet from said main portion and means providing flue passages on the exterior of said sections.

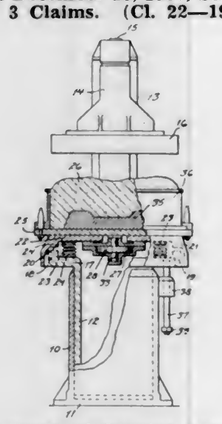
2,169,277
COMPOSITE SHEET MATERIAL
Francis Gurney Okie, St. Paul, Minn., assignor to Minnesota Mining & Manufacturing Company, St. Paul, Minn., a corporation of Delaware
No Drawing. Application November 30, 1934, Serial No. 755,445
13 Claims. (Cl. 91—70)

12. In a flexible paper or fabric product, a paper or fabric base having a non-brittle under coat of a tenacious film forming oil mixture and a smooth harder top coat of a drying oil-resinous mixture.

2,169,278
METHOD OF MANUFACTURING FLAVORING FOR ALIMENTARY PRODUCTS
Herbert E. Otting, Westerville, Ohio, assignor to M & R Dietetic Laboratories, Inc., a corporation of Ohio
No Drawing. Application August 4, 1938, Serial No. 223,121
18 Claims. (Cl. 99—140)

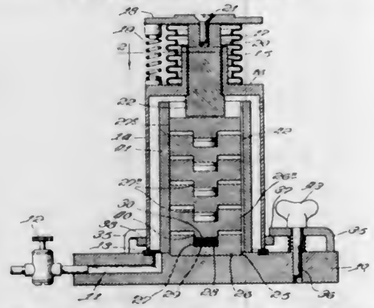
1. The method of producing a material for imparting a butter-flavor to chocolate and other alimentary products which comprises subjecting a butter-fat-containing aqueous material to lipolysis to develop therein free fatty acids and subjecting the lipolyzed butter-fat-containing material to a separatory treatment to separate the substantially non-aqueous constituents which include the non-lipolyzed butter-fat and the preferentially oil-soluble free fatty acids developed during such lipolysis, whereby a substantially water-free oily flavoring material is secured.

2,169,279
METHOD OF MOLDING
Earl F. Oyster, Shaker Heights, Ohio
Application December 16, 1937, Serial No. 180,126
3 Claims. (Cl. 22—193)



1. The method of forming sand into a mold which comprises assembling the sand within a flask section in operative relation to a pattern and vibrating the flask by subjecting it to the action of a rotating off-center mass while the flask is resiliently supported.

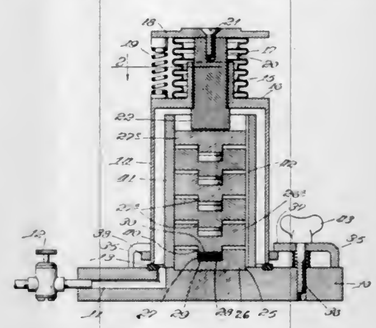
2,169,280
METHOD FOR FORMING SHAPED SMALL OBJECTS
Carl Pfanstiehl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company, a corporation of Illinois
Application November 5, 1937, Serial No. 173,036
8 Claims. (Cl. 29—160.5)



1. The method of forming shaped metallic small objects which comprises sifting finely divided metallic particles into a cavity less than one eighth of an inch in any dimension in a substantially incompressible plastic body shaped to the desired shape, the particles being permitted to fall freely into the cavity by gravity, and covering the cavity with a second plastic body and subjecting both bodies to high pressure to produce a coherent article of the desired shape.

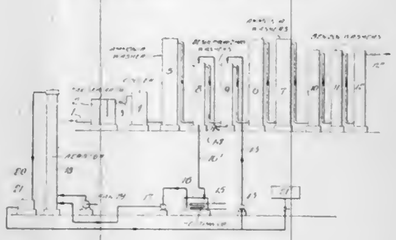
2,169,281
APPARATUS FOR FORMING SHAPED SMALL OBJECTS
Carl Pfanstiehl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company, a corporation of Illinois
Application November 5, 1937, Serial No. 173,035
5 Claims. (Cl. 29—1)

5. An apparatus comprising a series of die blocks, each having a die cavity therein, serially nested together, a closely fitting sleeve about said die blocks, said sleeve being provided with



an internal longitudinal groove communicating with the die cavity in each of said blocks, and means for applying high pressure to the die blocks.

2,169,282
REMOVAL OF H_2S AND HCN FROM GASES
Honoré Alphonse Joseph Pieters, Heerlen, Netherlands, assignor of one-half to Dr. C. Otto & Company, Bochum, Germany, a German company, and one-half to Staatsmijnen in Limburg, Heerlen, Netherlands, a concern of the Netherlands
Application June 2, 1937, Serial No. 145,991
In Germany June 12, 1936
5 Claims. (Cl. 23—3)



1. The method of separating sulphuretted hydrogen from gases, which consists in washing the gases with an aqueous ammoniacal solution initially containing iron ferrocyanide in suspension and having an ammonium salt content required to stabilize said ferrocyanide suspension against decomposition, regenerating the solution following its use and preparatory to its reuse in the washing operation by aerating the same, and compensating for the wastage of iron ferrocyanide from the solution, by adding thereto finely divided material from the group consisting of (1) iron ferrocyanide, and (2) cyanides and iron salts.

2,169,283
DRILLING APPARATUS
John W. Pippin, Corpus Christi, Tex.
Application October 25, 1937, Serial No. 170,811
9 Claims. (Cl. 255—75)

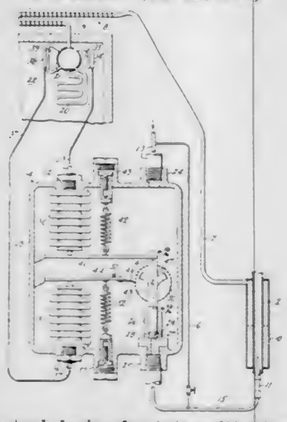
1. In drilling apparatus a tubular drill stem having a tubular drill head on the lower end thereof having transverse seats across its lower

end, said head being provided with channels for fluid terminating in the seats and a lining around



the channel formed of resilient material vulcanized in place.

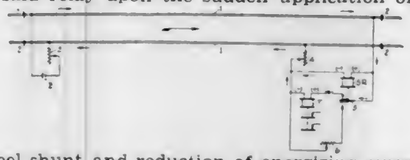
2,169,284
REFRIGERATION
Clyde E. Ploeger, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application January 15, 1937, Serial No. 120,698
2 Claims. (Cl. 236—99)



1. A control device for intermittent absorption refrigeration apparatus including a control member, a plurality of thermostats, one of said thermostats being connected to operate said member in only one direction, a notched wheel frictionally journalled on said member, means including a resilient pawl engaging the notches in said wheel connecting another of said thermostats to said member.

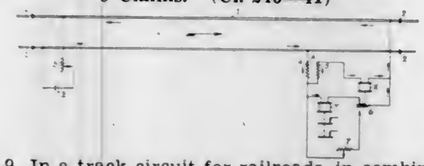
2,169,285
TRACK CIRCUIT FOR RAILROADS
Neil D. Preston and Oscar S. Field, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application May 21, 1936, Serial No. 81,056
6 Claims. (Cl. 246—41)

1. In a track circuit for railroads, in combination with a single winding track relay of the direct current type connected across the track rails, a circuit connected across the track relay, control means in said circuit and responsive to the voltage impulse of self-induction generated by said relay upon the sudden application of a



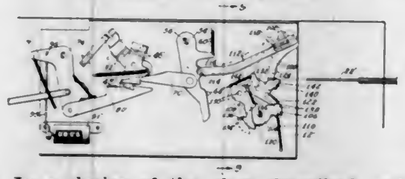
wheel shunt and reduction of energizing current of said relay to open completely the electrical connections conducting current to said relay.

2,169,286
TRACK CIRCUIT FOR RAILROADS
Neil D. Preston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application May 21, 1936, Serial No. 81,057
9 Claims. (Cl. 246—41)



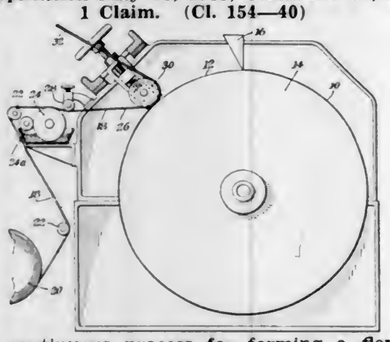
9. In a track circuit for railroads, in combination with a direct current track relay, means for opening the energizing circuit for said track relay upon application of a wheel shunt comprising, a secondary relay conductively connected to and energized from the track rails, and a coupling transformer connected between the relays and the rails for creating a deenergizing voltage for said secondary relay in the direction opposite to the interrail voltage, due to a decrease in the energizing current for said track relay.

2,169,287
SWITCH MECHANISM
Bruno Radtke, Chicago, Ill., assignor to Exhibit Supply Company, Chicago, Ill., a corporation of Illinois
Application August 3, 1936, Serial No. 93,954
9 Claims. (Cl. 200—33)



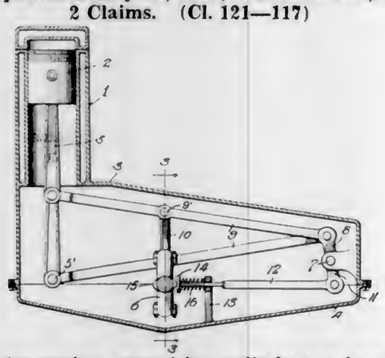
1. In a device of the class described, switch operating mechanism including an operating pawl, operating means movable back and forth for reciprocating said pawl, said pawl being movable a predetermined distance in one direction to effect operative connection with said switch and movable in opposite direction to actuate the switch, said switch automatically disengaging from said operative connection upon actuation as aforesaid, reciprocable control means arranged to be reciprocated once to move said pawl less than said predetermined distance, means for automatically holding said pawl in the position into which it is moved less than said predetermined distance, dog mechanism cooperable with said operating means and moved thereby into position to be engaged by said control upon operation thereof subsequent to partial operative movement thereby of said operating pawl for the purpose of effecting movement of said pawl the remainder of said predetermined distance.

2,169,288
CONTINUOUS PROCESS OF CASTING THIN FILM
Richard S. Reynolds, Glen Cove, N. Y.
Application May 18, 1935, Serial No. 22,191
1 Claim. (Cl. 154—40)



A continuous process for forming a flexible substantially waterproof laminated product comprised of a lamina of a relatively strong paper and a lamina of high gloss rubber hydrochloride film without penetration of the latter into the former, which comprises first forming and substantially drying a uniform film of rubber hydrochloride less than .0008" thick and unadapted for normal stripping because of a lack of tensile strength, upon a highly polished rigid moving surface, applying an adhesive in which said film is not soluble to a strip of paper moving at approximately the same speed as said film, then uniting said strip to said film to form a lamination, and then stripping the lamination from said moving surface by tension applied thereto through the strong paper.

2,169,289
ENGINE
Samuel B. Robbins, Boise City, Okla., and Marshal P. Scholl, Ellensburg, Wash.; said Robbins assignor of one-half to said Scholl
Application May 24, 1937, Serial No. 144,514
2 Claims. (Cl. 121—117)



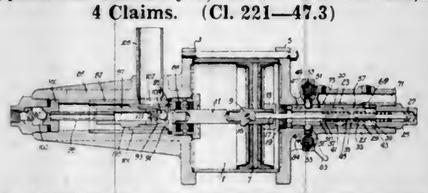
1. An engine comprising cylinders, a base for said cylinders and extending laterally of the latter, pistons reciprocally mounted in the cylinders, connecting rods carried by said pistons and extending into the base, a crank shaft journaled in the base laterally of the cylinders, an auxiliary shaft journaled to the base laterally of the crank shaft and the cylinders, arms integral with the auxiliary shaft, floating levers pivoted to said arms and the connecting rods, auxiliary connecting rods connecting the floating levers and the cranks of the crank shaft, an arm formed on the auxiliary shaft and extending in an opposite direction from the direction of the first-named arms, a pitman slidably supported by the base and having one end pivoted to the second-named arm, and cams carried by the crank shaft for operating the pitman.

2,169,290
TRANSPARENT MOUNTING FRAME FOR PICTURES
Umberto Rossi, Milan, Italy, assignor to Guido Perera, New York, N. Y.
Application April 6, 1938, Serial No. 200,360
In Italy April 14, 1937
3 Claims. (Cl. 40—158)



1. An individual mounting frame for pictures comprising in combination, a substantially quadrangular base of a flexible and sheet-like character, three incisions in said base parallel to three side edges of said base respectively and forming a substantially square C-shaped continuous slit therein for a single stamp, and a substantially rectangular transparent film having dimensions somewhat larger than the window defined by said incisions having three of its edges inserted in said slit to form a transparent cover plate therefor and having its fourth edge free for the insertion of a picture underneath said cover plate, the margin of said slit in said base being slightly raised and being adapted to form a frame for said window and the extreme edges of the back side of said base being adapted to be cemented to a supporting surface for holding said base and said cover plate in a fixed position.

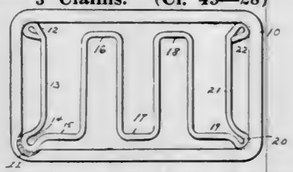
2,169,291
LUBRICATING APPARATUS
Lutwin C. Rotter, Maplewood, Mo., assignor to Lincoln Engineering Company, St. Louis, Mo., a corporation of Missouri
Application February 9, 1938, Serial No. 189,499
4 Claims. (Cl. 221—47.3)



1. A lubricator for lubricant in substantially solid form, comprising a hollow outlet cylinder, an outlet check valve therefor, tubular means reaching inwardly into the hollow outlet cylinder from said check valve, a tubular inlet cylinder for solid grease connected with the outlet cylinder and located laterally to direct the grease across the outlet cylinder, a hollow piston in the outlet cylinder having a slidable seal with said tubular means, a check valve in said piston, means for

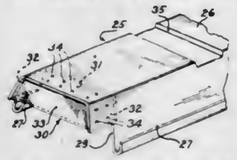
reciprocating the piston, said piston being arranged to cross the connection between the two cylinders to cut off inwardly directed lubricant to force said lubricant through the piston, the piston forcing said lubricant through the tubular means upon the opposite stroke.

2,169,292
COMPOSITE TRAY AND RACK
Charles L. Ruhl, Dallas, Tex.
Application February 4, 1937, Serial No. 124,059
3 Claims. (Cl. 45—28)



2. In a device as set forth, the combination with a tray having a base and walls upstanding therefrom, and having the walls provided with retainers, of a rack bent upon itself to form bifurcated formations and end loops all being manually flexible, tines proceeding from the loops and normally out of alignment with the retainers, and bars proceeding from the bifurcations and from which the end loops may be manually flexed to align the tines for association by impingement with the retainers.

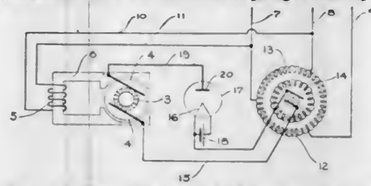
2,169,293
CABLE REEL LAGGING
Harold V. Schmidt, Oak Park, Ill., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application February 26, 1937, Serial No. 127,900
2 Claims. (Cl. 206—59)



1. A cable reel comprising spaced heads, a drum connected therebetween, and a plurality of sheet metal lags of channel cross-section extending between said heads and having the free edges of their flanges in contact with the peripheral surfaces of said heads, each of said lags having a metallic reinforcing member of channel cross-section welded within each end thereof with the web and flange portions of the reinforcing members in contact with the web and flange portions, respectively, of the lags, each of said reinforcing members having a flap portion depending from its web portion for closing the ends of the lags.

2,169,294
METHOD AND SYSTEM OF MOTOR CONTROL
Herbert M. Scull, United States Navy
Application December 4, 1936, Serial No. 114,113
16 Claims. (Cl. 172—274)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A method of controlling the direction and speed of rotation of a commutator motor having field and armature elements which comprises the steps of energizing one of said elements by causing a flow of alternating current thereby energizing the remaining element with an intermittent, pulsating, direct current, and thereafter during energization of both elements progressively varying the relative phases of the two currents to obtain the desired phase relation therebetween whereby to control the direction and speed of rotation of said motor.

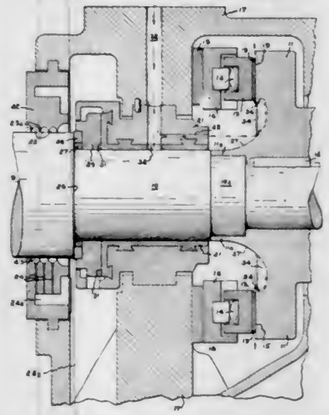


2,169,295
SHELF FOR REFRIGERATORS
Arthur C. Shuart, Evansville, Ind., assignor to Servel, Inc., New York, N. Y., a corporation of Delaware
Application November 16, 1936, Serial No. 111,012
7 Claims. (Cl. 211—153)



1. A shelf adapted to be supported in a food storage compartment of a refrigerator and having a peripheral edge portion and spaced ribbed portions of greater depth or thickness than other portions of said shelf, said shelf being constructed of material of a class including glass, synthetic resins and the like and having a plurality of openings disposed between said edge and ribbed portions to permit circulation of air in the storage compartment, and the peripheral edges of said openings having smooth heat finished surfaces.

2,169,296
LUBRICATING APPARATUS
Edwin F. Smith, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application January 4, 1938, Serial No. 183,254
9 Claims. (Cl. 308—160)



1. In a thrust bearing, a rotary thrust collar having an annular thrust surface, means carried by the collar for centrifugally applying lubricant simultaneously and equally to the inner margin of said thrust surface, and means providing for the removal of lubricant from the vicinity of the thrust collar whereby submerging of the collar in a bath of lubricant is avoided.

2,169,297
WORKBOX
Harry E. Smith, Short Hills, N. J., assignor to Celluloid Corporation, a corporation of New Jersey
Application February 25, 1937, Serial No. 127,704
1 Claim. (Cl. 223—107)



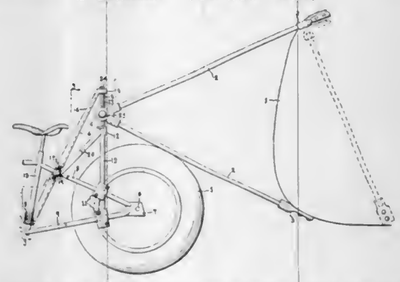
A portable work box for use in hand knitting, crocheting, sewing and similar operations, comprising a receptacle of transparent, flexible derivative of cellulose material, a shelf fixed to the inner side walls of said receptacle, a tray supported on said shelf forming two compartments therein, one of said compartments being adapted to receive a yarn package and the other compartment being adapted to receive the article being worked upon, said tray having an opening therein forming a communicating passage between said compartments and through which the yarn is adapted to be led, an eyelet in said opening and a tab attached to said tray by said eyelet, the construction arrangement of said tab being such that it acts as a handle by which the said tray is raised and as a means for fastening the yarn of said yarn package.

2,169,298
SAFETY APPLIANCE FOR PAINTERS AND THE LIKE
Ed L. Sorensen, Mare Island, Calif.
Application March 16, 1938, Serial No. 196,148
1 Claim. (Cl. 304—16)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



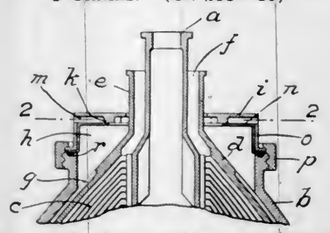
Safety appliance for painters and the like comprising a member having a pair of opposed hooks for connecting a supporting line with a boatswain's chair or stage, and oppositely extending hooks on said first mentioned hooks and disposed in offset relation relative to one another thereon around which the free end of the line is adapted to be looped to secure the same against movement and for snubbing the line when it is slacked away.

2,169,299
TRAILER DRAFT CONNECTION
Harry G. Shaughnessy, Highland Park, Mich., assignor to Peninsular Metal Products Corporation, a corporation of Michigan
Application November 8, 1937, Serial No. 173,341
2 Claims. (Cl. 280—292)



1. In a trailer draft connection, the combination with a towing vehicle, having a single rear wheel and a frame comprising a pair of upper bars extending forwardly substantially from the wheel axis, one at each side of the wheel, and a pair of lower bars extending forwardly from the wheel axis, one at each side of the wheel, of a pair of uprights mounted jointly on said upper and lower frame bars, one at each side of the wheel, a draw head, a lower support for the draw head, bridged across the upper ends of said uprights, an upper support for the draw head spaced above the lower support, a rearwardly inclined upright jointly mounted on the upper bars of the frame, and having the upper support carried by its upper end, a pair of bars forming a truss interconnecting said rearwardly inclined upright and the lower support for the draw head.

2,169,300
REGULABLE AND POWER CONSUMING REDUCING DISCHARGE DEVICE FOR CENTRIFUGAL SEPARATORS
Karl Johan Svensson, Alsten, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application October 5, 1935, Serial No. 43,679
In Germany November 23, 1934
3 Claims. (Cl. 233—46)



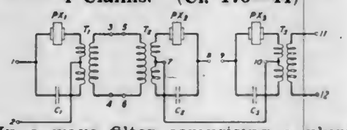
1. The combination with a centrifugal separator bowl having an open upper end and a top disc within the bowl and having a neck extending within the open upper end of the bowl and enclosing a passage for the outflow of the lighter separated constituent and providing a channel between it and the bowl shell for the outflow of the heavier separated constituent toward the open upper end of the bowl, of a combined power

saving and discharge regulating and control device mounted on the upper end of the bowl, said device comprising annular members, one of said members closing the bowl top except between its inner edge and the neck of the top disc, thus providing a weir over which the heavier separated constituent is adapted to flow, the other member providing rearwardly directed channels extending inward to near the neck of the top disc and through which the separated constituent flowing over said weir escapes to the outside of the bowl, the first named member being removable and exchangeable with other similar members having weirs of different radii, whereby one combined power saving and discharge regulating and control device may be substituted for another by changing only the element that determines the radius of discharge.

2,169,301
WAVE FILTER

Roger A. Sykes, Fanwood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 15, 1937, Serial No. 169,123
4 Claims. (Cl. 178—44)

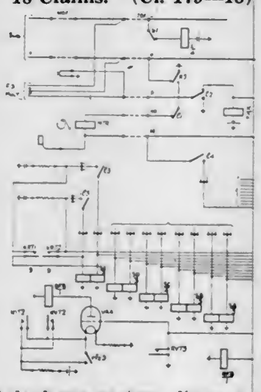


1. In a wave filter comprising a plurality of tandem sections having transmission bands at the same frequencies, piezoelectric crystal impedances individual to each section, said impedances comprising rectangular crystal plate vibrators cut with similar orientations to the principal crystal axes, each of said plates being proportioned to have a principal shear vibration resonance at a common frequency, and the several plates having different rectangular shapes whereby their secondary resonances occur at respectively different frequencies for each plate.

2,169,302
TELEPHONE SYSTEM

Reginald Taylor and George Thomas Baker, Liverpool, England, assignors to Associated Telephone and Telegraph Company, Chicago, Ill., a corporation of Delaware

Application April 25, 1936, Serial No. 76,322
In Great Britain May 13, 1935
18 Claims. (Cl. 179—18)

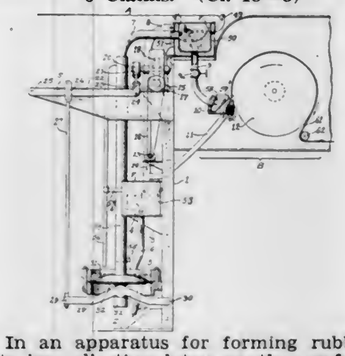


1. In a telephone system, lines, a plurality of finder switches, a common equipment controlling the operation of any one of said finder switches to find a line when a call is initiated from said line, a driving magnet for each finder switch for operating it to seize said line, and means including a circuit extending into said common equipment for holding the magnet of a finder switch energized when the finder connects with the calling line.

2,169,303
PROCESS AND APPARATUS FOR PRODUCING FILAMENTS

Fred J. Tobias, Allentown, Pa., assignor, by mesne assignments, to Filatex Corporation, New York, N. Y., a corporation of New Jersey

Application September 4, 1936, Serial No. 99,354
6 Claims. (Cl. 18—8)

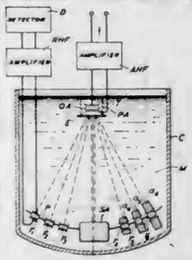


1. In an apparatus for forming rubber filaments by collecting latex on the surface of a heated endless member moving in contact with a layer of latex, a latex circulatory system comprising a latex reservoir, a second latex reservoir positioned above said first reservoir, a latex container having a weir positioned intermediate said reservoirs, and a diaphragm pump for lifting latex from the first reservoir to the second whereby the latex flows by gravity to said container.

2,169,304
FREQUENCY SELECTIVE SYSTEM

Marcel Charles Tournier, Paris, France, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York

Application June 23, 1937, Serial No. 149,892
In France July 18, 1936
3 Claims. (Cl. 178—44)

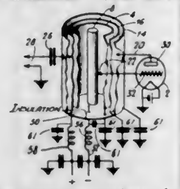


1. A frequency selective transmitting system comprising an elastic fluid medium, a source of plane compressional waves of a plurality of different frequencies disposed in said medium, a diffraction grating disposed in said medium adjacent said wave source, said grating comprising a slotted plate having a plurality of narrow equally spaced parallel slots and being positioned with respect to said source so that waves therefrom arrive at the several slots at phases related by integral half periods of the wave vibrations, and a plurality of wave responsive devices disposed in said medium beyond said plate in directions at different finite angles to the normal to said plate and in a plane perpendicular to the axes of said slots, the angular positions of said receiving devices being determined respectively in accordance with the different frequencies of the oscillations from said source.

2,169,305
LOW-LOSS CIRCUITS

Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application June 15, 1935, Serial No. 26,749
Renewed September 10, 1937
26 Claims. (Cl. 250—36)

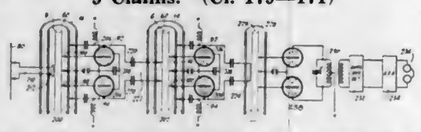


1. A high frequency system including a multielectrode vacuum tube having an input circuit comprising a pair of concentric tubes, each effectively a one-quarter wave length long at a desired operating frequency, and an output circuit comprising a pair of concentric tubes each one-quarter wave length long at the desired operating frequency, the tubes of said input circuit and of said output circuit being concentrically arranged to conserve space.

2,169,306
SHORT-WAVE RECEIVER

Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application June 15, 1935, Serial No. 26,749. Divided and this application March 4, 1937, Serial No. 129,006
5 Claims. (Cl. 179—171)



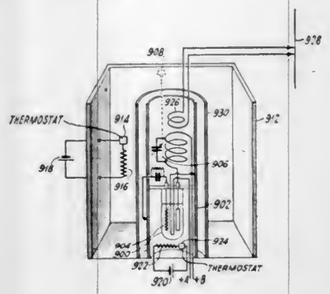
1. A radio receiver comprising concentric low-loss conductor resonant elements, means for applying received energy to an inner element, an amplifier device having an input electrode coupled to said inner element at a point intermediate the ends thereof and at least one of its output electrodes coupled to an element about said inner element also at a point intermediate the ends thereof, said inner element comprising one tuned circuit and said other element comprising another tuned circuit, and means for utilizing the output of said amplifier.

2,169,307
LOW-LOSS CIRCUIT APPARATUS

Harry Tunick, Rye, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Original application June 15, 1935, Serial No. 26,749. Divided and this application March 4, 1937, Serial No. 129,008
9 Claims. (Cl. 250—36)

4. The combination with a tuned circuit comprising both a hollow conductor devoid of concentrated reactance and a surrounding outer hollow conducting shell coupled to said hollow conductor to form therewith a high frequency circuit, and having a connection from said outer

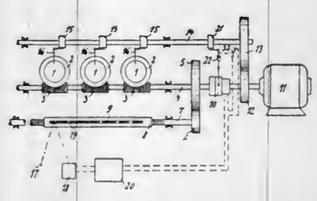


shell to a point of relatively fixed alternating current potential, of a multi-electrode vacuum tube device having input electrodes and being located within said hollow conductor, said input electrodes being connected to said tuned circuit.

2,169,308
DIVIDING MACHINE AND THE LIKE

Hans (Johann Konrad) Wagner and Hans-Joachim Sommer, Oberfranken, Germany

Application October 2, 1937, Serial No. 167,074
In Germany October 6, 1936
10 Claims. (Cl. 33—19)



1. In an apparatus for providing graduation marks on workpieces in accordance with corresponding divisions of a templet, the combination comprising means for intermittently and simultaneously displacing a workpiece and a templet, said templet bearing visible marks thereon, marking means adapted to provide marks on said workpiece when actuated, means for driving said displacing and said marking means, and photoelectric scanning means actuable by the visible marks of said templet to operate said displacing and said marking means in predetermined time relationship to cause graduation of said workpiece.

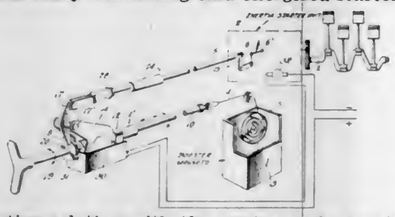
2,169,309
STARTING MECHANISM FOR INTERNAL COMBUSTION ENGINES

William Wait, Jr., Garden City, and Chance M. Vought, Great Neck, N. Y., assignors, by mesne assignments, to United Aircraft Corporation, a corporation of Delaware

Application October 4, 1928, Serial No. 310,369
39 Claims. (Cl. 123—179)

1. In a starting means for internal combustion engines the combination of a power starter, an ignition power generating system, means for en-

ergizing the starter and common means for simultaneously connecting said energized starter in



operative relation with the engine and operating the generating system.

2,169,310

CIGAR AND MOUTHPIECE THEREFOR

Milton Wertheimer, Baltimore, Md.

Application August 16, 1938, Serial No. 225,185
8 Claims. (Cl. 131—52)



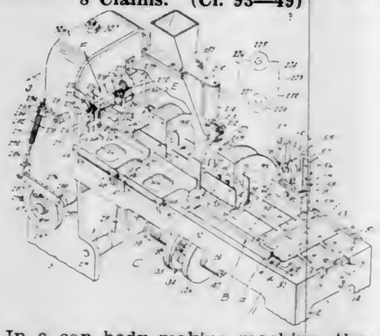
1. A mouthpiece for cigars and the like made of thin, hard, plastic material comprising a substantially cylindrical portion for attachment to a cigar, a substantially elliptical and flattened mouth portion terminating in a slotted end, the wall of said mouth portion being transversely thickened at said slotted end, and internally projecting means on one interior wall thereof between the longitudinal edges of the mouth portion and spaced from the opposed wall thereof, to prevent its closing by biting with normal use.

2,169,311

CAN-BODY MAKER

Magnus E. Widell, Cincinnati, Ohio, assignor to American Can Company, New York, N. Y., a corporation of New Jersey

Application July 29, 1938, Serial No. 222,053
8 Claims. (Cl. 93—49)



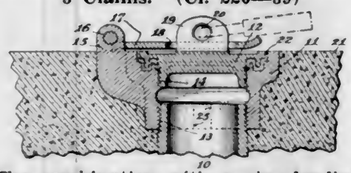
1. In a can body making machine, the combination of feeding devices for advancing can body blanks along a predetermined path of travel through the machine, a forming horn disposed adjacent the path of travel of said blanks, cooperating pairs of movable instrumentalities located adjacent said horn on each side thereof for pressing said blank against the sides of said horn, means for operating said movable instrumentalities in unison when pressing the blank against the horn and for operating them independently thereafter while the blank is advanced along the horn so that one pair of instrumentalities will guide the blank during advancement while the other instrumentalities are moving back out of the way of the next following blank, and means for uniting side seam edges of the blank into a side seam.

2,169,312

CAP FOR FILL PIPES

Henry P. Wilking, Waldwick, N. J.

Application September 24, 1936, Serial No. 102,309
3 Claims. (Cl. 220—39)



1. The combination with a pipe leading to a subsurface tank, of a cap threaded over the upper end portion of said pipe, a plug threaded into said cap with a thread diameter at least about as large as that of the pipe, provided with a flanged top and adapted to be screwed down to a position with its top substantially flush with the top of said cap, a lug projecting substantially radially outward and upward from a side of said cap to above the top thereof, cementitious material surrounding said pipe and cap and substantially flush with the top surface of said cap, a securing member pivotally attached to said lug above the top of said cap and cementitious material but substantially contiguous the top of the cap and plug, and locking means for holding said securing member in position to prevent removal of the plug, a substantial portion of said lug extending below the top of the cap as a radial rib of depth greater than that of the top of said plug and cementitious material cooperating with said rib or lug to prevent rotation of said cap, and said lug extending only a short distance above the top of said cap, said lug or rib being also integral with and contiguous the top of the peripheral portion of the cap.

2,169,313

CONCENTRATION OF METALLIFEROUS ORES BY FLOTATION

Carl F. Williams, San Mateo, and William Trotter, San Francisco, Calif., assignors to Minerals Separation North American Corporation, New York, N. Y., a corporation of Maryland

No Drawing. Application September 24, 1938, Serial No. 231,506
12 Claims. (Cl. 209—166)

1. A flotation process of concentrating metalliferous ores, which comprises subjecting the metalliferous ore to a flotation operation in the presence of a thiophane reagent.

2,169,314

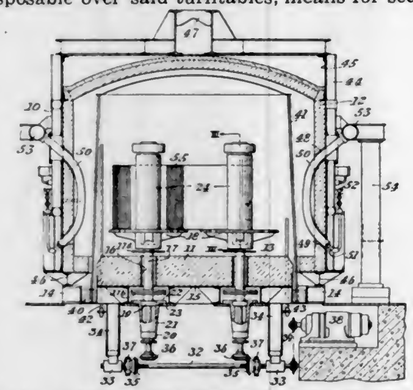
METHOD AND APPARATUS FOR ANNEALING STRIP

Lee Wilson, Cleveland, Ohio, assignor to Lee Wilson Sales Corporation, a corporation of Ohio

Application January 3, 1938, Serial No. 182,949
6 Claims. (Cl. 266—3)

1. Apparatus for annealing strip comprising a

pair of turntables rotatably disposed above a refractory hearth, a refractory lined heating cover disposable over said turntables, means for secur-



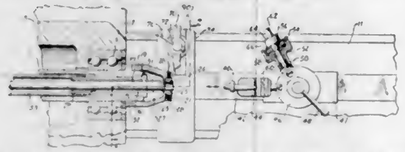
ing to one turntable the end of a coil of strip disposed on the other turntable, and means for driving said one turntable to unwind said coil and rewind it thereon.

2,169,315

SPINNING THERMOPLASTIC MATERIALS

Victor Yngve, Lakewood, Ohio, assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application July 26, 1935, Serial No. 33,241
14 Claims. (Cl. 18—55)



1. The method for the production of shaped articles, which comprises rapidly rotating upon its longitudinal axis, a solid body of heat-sensitive thermoplastic material having the general shape of a cylinder of revolution, softening and reshaping an end margin of the said body by the heat of friction developed by a member pressed against an end of said body, the said body being moved relative to the said member, and preventing accumulation of excessive heat in the portion of the body thus softened during the application of the said force.

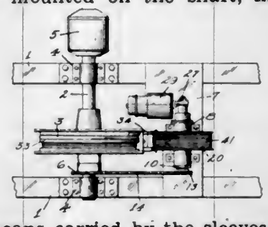
2,169,316

TAG LINE HOIST FOR FISH LIFT GATES

Adolph Zwald, Portland, Oreg., assignor to the Government of the United States of America, represented by the Secretary of War

Application May 25, 1937, Serial No. 144,618
3 Claims. (Cl. 254—184)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A mechanism of the character described comprising a hoisting drum, a tag line drum, a hoisting cable and a tag line adapted to be wound upon the respective drums, a constant speed drive from the hoisting to the tag line drum to reel and unreel the cable and tag line at the same rate of speed, said drive including means to vary the rotary movement of the tag line drum relative to that of the hoisting drum, said means including a shaft susceptible of rotary and axial movement, a driving sleeve connected to the shaft, an intermediate sleeve keyed to said tag line drum and loosely mounted on the shaft, interacting



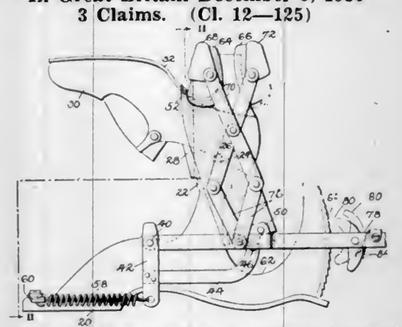
camming means carried by the sleeves, whereby axial movement of the shaft imparts a limited angular movement to the tag line drum, and electro-mechanical means connected to the shaft to transmit axial movement thereto.

2,169,317

SECURING HEEL-BREAST COVERING FLAPS TO SHOES

Thomas Baggott Clarke and Leslie Ernest Short, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application November 8, 1937, Serial No. 173,284
In Great Britain December 9, 1936
3 Claims. (Cl. 12—125)



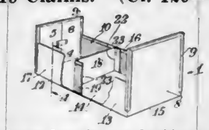
1. In a clamping device, a support for a shoe, a saddle conformable to the shank portion of the sole of the shoe and to the projecting portion of the breast of a heel attached to the shoe, means for causing said saddle to force a covering flap split from the sole of the shoe against said shank portion of the sole and said projecting portion of the breast of the heel, a resilient pad, and means for causing said pad to force the saddle with considerable pressure against the portion of the flap overlying the shank portion of the sole and the projecting portion of the breast of the heel and also to force the flap against the lower portion of the breast of the heel.

2,169,318

CONTAINER AND PARTITION THEREFOR

George A. Copeland, Rochester, N. Y.

Application May 12, 1937, Serial No. 142,212
19 Claims. (Cl. 129—28)



9. A container having a bottom, sides and ends

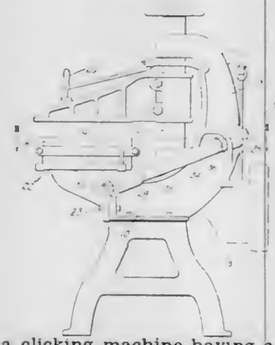
formed from fiber board, said fiber board comprising corrugated paper and a liner attached thereto, said sides having the corrugated paper on their inner surfaces with the flutes thereof extending vertically, a follower having end portions bent at right angles to the body thereof, said end portions having vertically extending flutes to engage the flutes in said sides.

2,169,319

MACHINE FOR OPERATING UPON SHEET MATERIAL

Joseph Gouldbourn, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application June 30, 1938, Serial No. 216,829
In Great Britain August 19, 1937
4 Claims. (Cl. 164—23)



4. In a clicking machine having a cutting bed and an upwardly extending frame portion for supporting vertically reciprocable parts including a presser member arranged over the cutting bed, braces extending on opposite sides of the machine between the cutting bed and said upwardly extending frame portion, said braces each comprising a tubular strut having its opposite ends connected in abutting relation to the said bed and to said frame portion.

2,169,320

PHOTOGRAPHIC DYESTUFF PICTURE

Gerd Heymer, Wolfen, Kreis Bitterfeld, and Werner Schultze, Dessau, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware

No Drawing. Application November 29, 1937, Serial No. 177,058. In Germany December 1, 1936

8 Claims. (Cl. 95—2)

1. In a process of producing subtractive dyestuff pictures in a photographic material adapted to form a dyestuff picture by means of the silver dyestuff bleaching-out method, the improvement which comprises superimposing a silver picture on the dyestuff picture by exposing the photographic material to produce latent silver records therein, developing said material, bleaching the dyestuff at the places at which silver is present without fixing, removing said silver, and transforming the remaining silver halide into the silver picture.

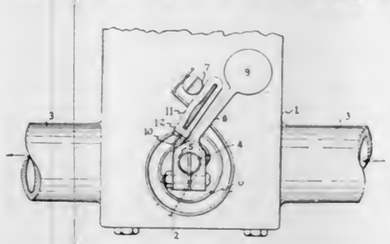
2,169,321

VALVE MECHANISM OF FUEL PREHEATING CONTROLS

Emory D. Jones, Detroit, Mich.

Application October 1, 1937, Serial No. 166,830
7 Claims. (Cl. 251—152)

1. In a fuel preheating control for internal combustion engines, a rock-shaft, a valve member on said shaft controlling exhaust flow and urged toward its open position by such flow, a substantially rigid arm on the rock-shaft, a stop coacting with such arm to limit closing travel



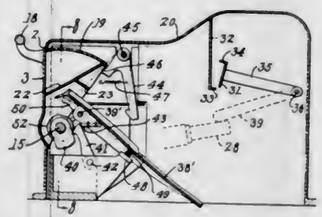
of the valve member, a spring arm secured to the end portion of said rigid arm engaging the rock-shaft, and having a free end portion projecting between the rigid arm and stop for cushioning impact of the rigid arm and stop.

2,169,322

PACKAGE RECEIVING DEVICE

Joseph A. Keane, Bridgeport, Conn., and Francis J. Kittredge and Alfred P. Burns, Worcester, Mass.; said Burns assignor to said Keane and said Kittredge

Application February 24, 1937, Serial No. 127,478
15 Claims. (Cl. 101—71)



1. In a package receiving device, having a container associated therewith to receive the deposited packages, a door normally closing an opening in the device, means for stamping on an article deposited, means for issuing a printed receipt, and means responsive to closing movement of the door for actuating said stamping and said issuing means.

2,169,323

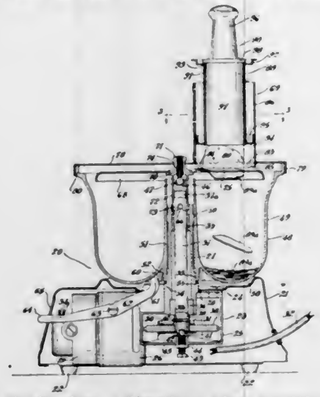
FOOD PREPARER

Eugene F. Martinet, Cleveland, Ohio, assignor to The P. A. Geier Company, Cleveland, Ohio, a corporation of Ohio

Application October 14, 1936, Serial No. 105,568
3 Claims. (Cl. 146—125)

1. A food slicing and shredding device having a base, a housing sleeve projecting upward from said base, a drive shaft projecting upward from said base through said housing sleeve, a cutting plate having a sleeve telescoped over the upper end of the drive shaft within said base housing sleeve and operatively connected to said drive shaft, a bowl surrounding said cutting plate and having a central tubular sleeve telescoped over said base housing sleeve and cutting plate sleeve, a cover plate on the bowl having a depending

cutter bar for cooperating with said cutting plate, and means on said cutting plate and abutting said



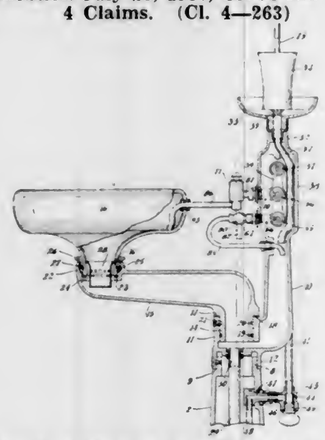
drive shaft for adjusting the position of the cutting plate relative to the cutter bar.

2,169,324

DENTAL CUSPIDOR CONSTRUCTION

Edward L. Monnot, Canton, Ohio, assignor to The Weber Dental Manufacturing Company, Canton, Ohio, a corporation of Ohio

Application July 23, 1937, Serial No. 155,235
4 Claims. (Cl. 4—263)



1. Dental apparatus including a pedestal having a drain pipe therein, a tubular upright arm rigidly mounted on said pedestal and communicating with said drain pipe, a cuspidor swiveled on said upright arm for communicating with said drain pipe, a valve head mounted on said upright arm, saliva ejector means connected to said valve head and discharging into said upright arm, and means externally of the arm providing a swivel connection with the valve head for discharging water into the cuspidor, the swivel means having its swivel axis laterally offset from the valve head and being outside of the cuspidor.

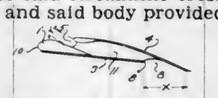
2,169,325

SUSTAINING AND PROPELLING MEMBER FOR FLUID-SUSTAINED CRAFT

Julius J. Novak, Cleveland, Ohio

Application June 8, 1934, Serial No. 729,566
20 Claims. (Cl. 244—40)

18. An airfoil, comprising a body of streamline contour in cross-section characterized by a blunt leading edge of streamline cross-section and a relatively thin trailing edge, an upper surface, a lower surface and intermediate means between said surfaces for maintaining said surfaces and leading edge in predetermined relation relative to said streamline cross-section and said surfaces, and said body provided with a fluid



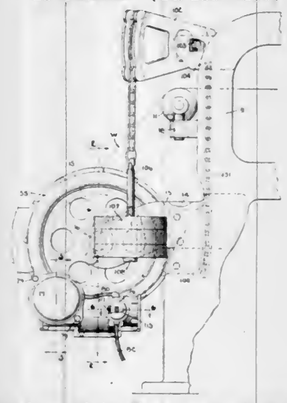
passageway extending from a point in front of the greatest thickness of the airfoil on one surface to a point on the other surface at the trailing edge, and said passageway having certain front and rear edges thereof substantially tangent to a straight line passing through the aforesaid points of said surfaces and lying wholly within said passageway and said airfoil.

2,169,326

MOTOR DRIVEN LET-OFF

Oscar V. Payne, Leicester, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application April 11, 1938, Serial No. 201,340
Renewed January 17, 1939
15 Claims. (Cl. 139—100)



1. In a loom let-off, a warp beam rotatable to let-off warp, a worm gear rotatable with the beam when the latter is letting-off warp, a casing rotatable about the center of the worm gear, a worm meshing with the worm gear, a weight to resist rotation of the casing, an electric motor connected to the worm to cause rotation thereof, and a normally open switch to be closed by angular motion of the casing and placed in circuit with the motor to cause rotation of the motor and worm to cause reverse rotation of the casing.

2,169,327

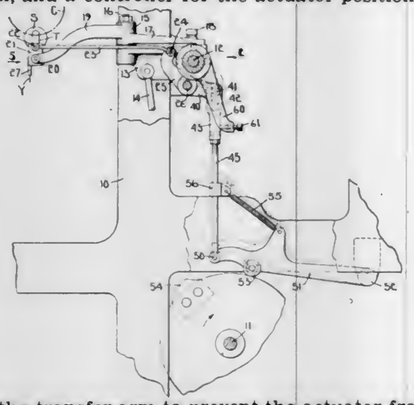
TIPPING MOTION FOR AXMINSTER LOOMS

William W. Robertson, Northboro, Mass., assignor to Crompton & Knowles Loom Works, Worcester, Mass., a corporation of Massachusetts

Application April 27, 1938, Serial No. 204,637
8 Claims. (Cl. 139—9)

1. In an Axminster loom having transporting chains carrying a tube frame, a transfer arm movable from the transporting chains toward the cloth being woven on tuft forming beats of the loom, a tube frame engaging clutch pivoted

to the arm, actuating mechanism for the clutch to move the latter angularly with respect to the arm, and a controller for the actuator positioned



by the transfer arm to prevent the actuator from moving the clutch angularly when the transfer arm fails to move to tuft forming position on tuft forming beats of the loom.

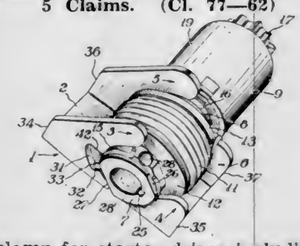
2,169,328

CLAMP AND DRILL JIG

Youston Sekella, Elmira, N. Y., assignor, by mesne assignments, to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application December 22, 1937, Serial No. 181,190

5 Claims. (Cl. 77—62)



1. A clamp for starter drives including a base portion with spaced bifurcated flanges extending therefrom in generally parallel relation and having substantially parallel edges adapted for reception in a clamping support, the bifurcations of the flanges being so formed and spaced as to straddle and compress a yielding element of the drive, one of said flanges having abutment means cooperating with a projection on the drive for orienting the drive angularly therein.

2,169,329

STABILIZING ORGANIC ESTERS OF CELLULOSE

George W. Seymour, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application August 14, 1937, Serial No. 159,114

12 Claims. (Cl. 260—230)

1. Process for stabilizing organic esters of cellulose, which comprises treating organic esters of cellulose which are unstable owing to the presence of catalyst residues, while in solution, with a tertiary amine containing at least two aryl groups.

2,169,330

ORGANIC ESTERS OF CELLULOSE

George W. Seymour, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware

No Drawing. Application August 14, 1937, Serial No. 159,115

15 Claims. (Cl. 260—230)

1. Process for stabilizing an organic substitution derivative of cellulose, which comprises treating an organic substitution derivative of cellulose which is unstable owing to the presence of impurities, in the finely divided solid form obtained by precipitation from solution, with a tertiary amine derived from aryl aniline, which amine is capable of reacting with inorganic acids but is inert to lower aliphatic acids.

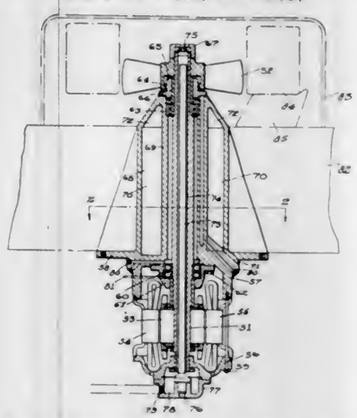
2,169,331

BLOWER FOR ANNEALING FURNACES AND THE LIKE

Otto Wechsberg and Helmut Werner, Worcester, Mass., assignors to Coppus Engineering Corporation, Worcester, Mass., a corporation of Massachusetts

Application February 17, 1937, Serial No. 126,262

4 Claims. (Cl. 230—209)



1. A vertical blower comprising a housing adapted to be positioned in the wall of a chamber, a shaft in said housing and extending vertically with its upper end within the chamber, a fan on said upper end, bearings provided by the housing for the shaft, and an annular chamber provided by the housing and extending toward the fan at least as near as the adjacent bearing, said chamber having a provision for the circulation of cooling liquid therethrough to keep the bearing cool, the lower end of the shaft being accessible from the outside of the chamber wall and being hollow at least to a point between the fan and the adjacent bearings to provide for a circulation of a cooling fluid through said shaft from the lower end thereof.

2,169,332

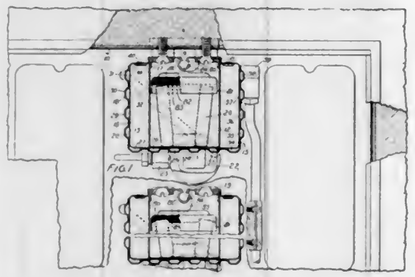
HOLD-OVER ARRANGEMENT FOR REFRIGERANT SYSTEM EVAPORATORS

Oscar U. Zerk and Daniel Roland Vanneman, Chicago, Ill.; said Vanneman assignor to said Zerk

Application July 1, 1935, Serial No. 29,332

5 Claims. (Cl. 62—95)

5. In a refrigerating system adapted to use in an automotive vehicle and inoperable for relatively long periods during non-operation of the vehicle, the combination with a cabinet of an evaporator shell, a container for material to be refrigerated supported thereby, a compartment containing hold-over mixture, a continuous conduit formed on the external walls of the evaporator shell and compartment so arranged that refrigerant traversing the conduit will first cool the base of the container and subsequently subject the mixture to a freezing temperature with the lowermost portion of the hold-over mixture being subjected to refrigerant having a greater heat exchange capacity than successively upwardly disposed portions of the mixture, and the major portion of the conduit length being associated with the compartment to effect freezing of the hold-over mixture without a corresponding reduction of temperature of the air within the cabinet whereby liquifying of the hold-over mixture during non-operating periods of the vehicle will provide considerable heat exchange without substantial change in the hold-over mixture temperature.



2,169,333

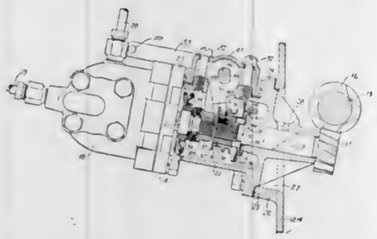
POWER-TRANSMITTING CLUTCH AND OPERATING MEANS THEREFOR

Oscar U. Zerk and Daniel Roland Vanneman, Chicago, Ill.; said Vanneman assignor to said Zerk

Application July 1, 1935, Serial No. 29,335

Renewed February 26, 1938

17 Claims. (Cl. 192—67)



13. In a clutch mechanism for coupling a pair of shaft means, a clutch element rigidly connected to one shaft means, a reciprocable clutch element on the other shaft means adapted to telescope over the other clutch element, a pin adapted to be projected through the reciprocable clutch element into its shaft means to lock it against axial movement thereon, and a centrifugal device for projecting the pin, at shaft means rotational speeds above the predetermined maximum.

2,169,334

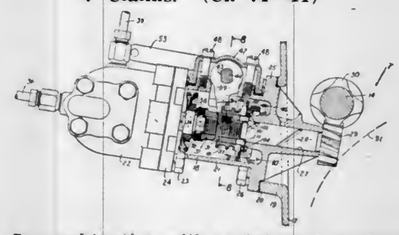
POWER TAKE-OFF FOR ENGINE-DRIVEN MECHANISMS

Oscar U. Zerk and Daniel Roland Vanneman, Chicago, Ill.; said Vanneman assignor to said Zerk

Application July 1, 1935, Serial No. 29,336

Renewed July 12, 1938

7 Claims. (Cl. 74—11)



1. In combination with an internal combustion engine having an apertured walled casing and a cam shaft, and a valve tappet mechanism, an accessory mechanism frame, a mechanism on the frame and a mechanism driving shaft having a gear thereon projecting from the shaft all supported solely by the frame as a unitary self-contained structure, the shaft adapted to be projected through the apertured casing wall to drivingly engage the gear with the cam shaft gear and the frame adapted to be detachably secured to the engine casing, and extending laterally therefrom, the mechanism and frame being disposed with all parts thereof below the lowest plane in which operations are performed to adjust the valve tappet mechanism, the mechanism comprising a clutch associated with the mechanism shaft and a vertically movable clutch operating element disposed laterally outwardly of the engine beyond the space in which operations are customarily performed to adjust the valve tappet mechanisms, and link means associated with the operating element for effecting movement thereof manually preventing movement of the clutch operating element to a clutch engaged position by the link means above a predetermined rotational speed of the cam shaft gear.

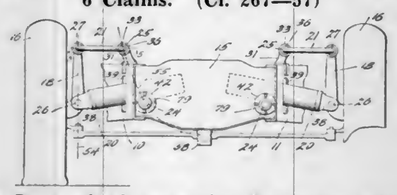
2,169,335

MOTOR VEHICLE

Frank C. Best, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan

Application June 12, 1936, Serial No. 84,929

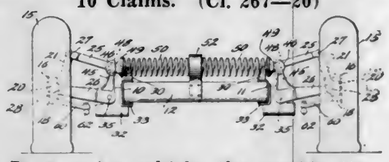
6 Claims. (Cl. 267—57)



1. In a wheel suspension for motor vehicles, the combination with a vehicle frame, of oppositely disposed road wheel assemblies, and means supporting siad wheel assemblies on said frame for independent rising and falling movement with respect thereto, said means including a pair of laterally extending wheel supporting links pivotally connected to said frame and to each of said road wheel assemblies on transverse axes, said links being of different effective length, the point of pivotal connection between each link of

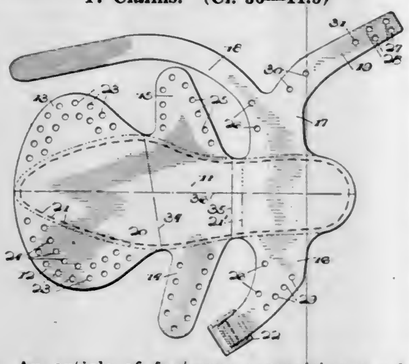
each pair and the associated wheel assembly being disposed above the rotational axis of the wheel.

2,169,336
MOTOR VEHICLE
Frank C. Best, Detroit, Mich., assignor to Packard Motor Car Company, Detroit, Mich., a corporation of Michigan
Application December 20, 1933, Serial No. 703,309
10 Claims. (Cl. 267—20)



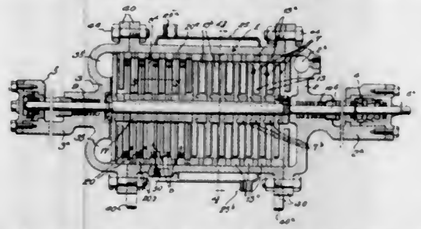
1. In a motor vehicle, the combination with a vehicle frame, of a road wheel, a road wheel carrying member, and means supporting said road wheel on said frame for rising and falling movement with respect thereto, said means comprising a pair of vertically spaced links, each link being pivotally connected to said frame and to said member and extending outwardly and upwardly from the point of pivotal connection thereof to the frame in the normal position of the road wheel, the upper of said links being longer and having the greater upward inclination, whereby less tread variation will occur when the wheel rises than when it falls from the normal position.

2,169,337
FOOTWEAR
Herschel S. Davis, Little Rock, Ark.
Application March 6, 1939, Serial No. 260,133
17 Claims. (Cl. 36—11.5)



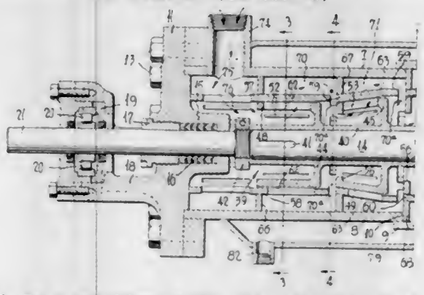
1. An article of footwear comprising a sole, a pair of toe engaging members secured to said sole along the opposite side edges thereof and each extending from a point adjacent the tip of the toe portion of the sole to a point adjacent the shank portion of the latter, a pair of instep members secured to said sole along the opposite side edges of the shank portion thereof and adapted to engage the instep of the foot of the wearer, means for adjusting said toe engaging and instep members to snugly fit the foot of the wearer and for securing said members in adjusted position, a pair of heel engaging members secured to said sole along the opposite side edges of the heel portion of the latter, a pair of strap members secured to one of said heel engaging members, one of said strap members being adapted to pass in front of the ankle and the other behind the heel of the wearer, and means for detachably connecting each of said strap members to a portion of the other of said heel engaging members.

2,169,338
EMULSIFYING MILL
Marvin W. Ditto, New York, N. Y., assignor to Gas Fuel Corporation, New York, N. Y., a corporation of Delaware
Application March 18, 1938, Serial No. 196,780
16 Claims. (Cl. 259—9)



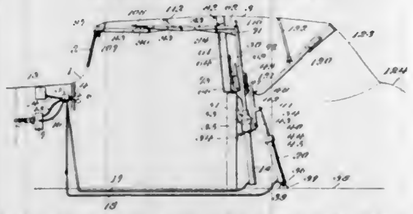
1. An emulsifying mill of the character described, comprising a hollow cylinder having closed ends, a rotatable shaft extending axially through the cylinder, means for introducing materials to be treated into one end of the cylinder, means for discharging an emulsion from the opposite end of the cylinder, said cylinder being provided with an agitating section and an amalgamating section, spaced rotatable agitating elements mounted on the shaft and arranged in the agitating section, stationary agitating elements arranged in the agitating section and having their opposite sides in close proximity to but spaced from the rotatable elements, rotatable amalgamating elements mounted on the shaft and arranged in the amalgamating section between the agitating section and the outlet end of the cylinder, and stationary amalgamating elements arranged in the amalgamating section and positioned between the rotatable amalgamating elements, the amalgamating elements being arranged side by side in close proximity to one another and each amalgamating element having a series of irregular passageways extending therethrough.

2,169,339
MILL FOR DISPERSION AND MIXING
Marvin W. Ditto, New York, N. Y., assignor to Gas Fuel Corporation, New York, N. Y., a corporation of Delaware
Application July 12, 1938, Serial No. 218,883
21 Claims. (Cl. 259—9)



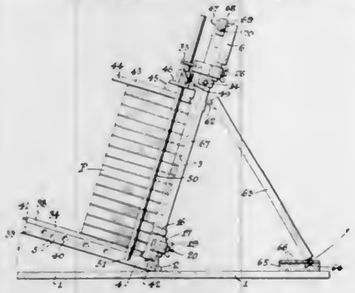
1. In a machine of the character described, a rotor member provided with an annular wall having slots extending lengthwise thereof and of substantially V shape from the inner surface of the wall to the outer surface thereof, the plane of the V's of said slots being perpendicular to the axis of rotation of the rotor and a stator member having an annular wall arranged in close proximity to the wall of the rotor member, the wall of the stator member being also provided with slots opposed to the slots of the rotor member and of irregular shape from the inner surface of the annular wall of the stator member to the outer surface of such wall.

2,169,340
CONVERTIBLE AUTOMOBILE BODY
Jeronimo Falcon, Buenos Aires, Argentina
Application March 24, 1938, Serial No. 197,947
10 Claims. (Cl. 296—117)



1. A top for an automobile and the like comprising a lazy tong device, means for extending said lazy tong device, said means comprising a cylindrical casing, a plunger reciprocating in said casing, a plate fixed to the end of said plunger within said casing, means upon said plate permitting a free passage of air to either side thereof, a floating piston positioned below said plate and an inlet upon said casing through which oil under pressure may be supplied to said casing.

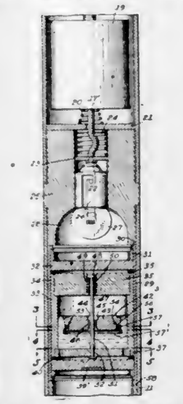
2,169,341
PAPER PADDING OR TABLETING PRESS
John L. Goines, Albert C. Goines, and Charles S. Goines, Charlotte, N. C.
Application April 22, 1938, Serial No. 203,718
19 Claims. (Cl. 11—1)



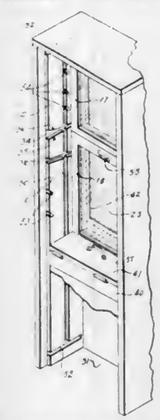
1. In a paper padding or tableting press, the combination of a main supporting base, a tiltable rack and baseboard secured in planes at right angles to each other and hingedly mounted to the main supporting base, means for holding said rack and baseboard in a tilted position, an edge guide strip, and laterally extensible means for holding said edge guide strip in a laterally adjusted position parallel with the sides of the rack.

2,169,342
WELL SURVEYING INSTRUMENT
John C. Hewitt, Jr., and Vivian Edward Kuster, Long Beach, Calif.
Application April 14, 1936, Serial No. 74,320
3 Claims. (Cl. 33—223)

1. A compass structure comprising a casing adapted to be located in a well bore, said casing having a float compartment containing a liquid, the opposite ends of said compartment being formed of light transmitting material, a float compass buoyantly supported upon the liquid in said compartment, said compass carrying indicating means thereon, and illuminating means adapted to project light through the compass compartment upon the indicating means whereby the indicating means interrupts the light.



2,169,343
WINDOW CONSTRUCTION
Gustav A. E. Kaul, Hackensack, N. J.
Application December 30, 1936, Serial No. 118,405
8 Claims. (Cl. 20—52.1)



1. A window comprising a frame having duplicate sash pin guiding and support grooves in its jambs, a sash fitted for vertical and horizontal translative movement in the window opening and having pins fixed in its lateral edges slidably engaged in the grooves for retention and support of the sash, a front stile on the frame defining a stop positioned to receive the sash thereagainst when in closed position, a resilient compressible yielding sealing member set in the inner face of the stile and extending longitudinally throughout the stile to continuously abut the face of the sash at times, said grooves including inclined portions to receive the pins of the sash and located to extend above and below the normal closed positions of the pins, arranged

so that on movement of the sash vertically to closed position, the inner sides of the inclined parts of the slots will engage the inner sides of the pins and press them outwardly, whereby the sash will be caused to engaged and deform the said sealing member.

2,169,344

COMPOSITION FOR REMOVING WORN LUBRICANT MATERIAL

Cyril S. Kimball, Brooklyn, N. Y.

No Drawing. Application February 18, 1936, Serial No. 64,601
2 Claims. (Cl. 87—5)

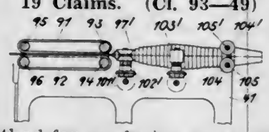
2. A composition of matter which removes worn or fouled lubricant material from copper alloys and forms a protective coating thereon when exposed to the air, which composition comprises an aqueous solution of the reaction products of a sodium alkyl sulphate, stearic acid, citric acid, sodium bicarbonate in excess of the amount necessary to neutralize the citric acid and aqua ammonia in amount sufficient to render the alkalinity equal to that of an ammonia solution of between 11 and 12 degrees Bé.

2,169,345

METHOD AND MACHINE FOR PRODUCING PAPER CONTAINERS

Karl Küchler, Dusseldorf, Germany, assignor to Jagenberg-Werke Akt.-Ges., Dusseldorf, Germany

Application May 24, 1937, Serial No. 144,513
19 Claims. (Cl. 93—49)



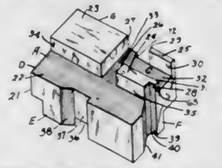
1. A method for producing paper containers of the kind having a tubular conical body and a dish-shaped bottom, said method comprising the forming of a flat trapeziform tube by folding and glueing, the opening of said tube from a flat condition into a distended one after setting of its glued joint, and the pressing in of a dish-shaped bottom into said distended tube through the enlarged end in the direction to the narrower end.

2,169,346

JIG AND METHOD FOR RECONDITIONING THE ALIGNING EDGES OF LUGS OF MATRICES AS USED IN TYPESETTING MACHINES

Robert J. Lloyd, Detroit, Mich.; Arthur Philp, executor of said Robert J. Lloyd, deceased

Application August 31, 1938, Serial No. 227,845
9 Claims. (Cl. 29—1)



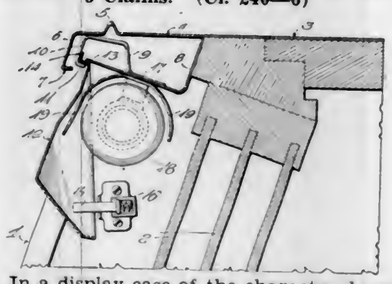
1. The method of reconditioning the aligning edges of lugs of matrices which consists in placing the casting face of a matrix in a channel in one face of a jig, locking the jig in a vise, hammering one edge of the casting face lug until the opposite or aligning edge of said lug is at right angles to the casting face edge of the matrix, reversing the matrix in the channel and truing the aligning edge.

2,169,347

DISPLAY CASE

Frank D. MacMaster, Trenton, N. J., assignor to C. V. Hill & Co., Inc., Trenton, N. J., a corporation of New Jersey

Application March 18, 1938, Serial No. 196,787
3 Claims. (Cl. 240—6)



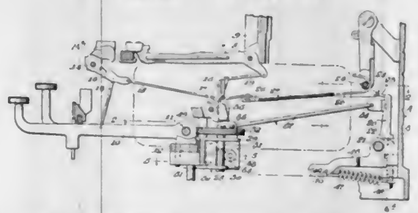
1. In a display case of the character described having a front window, a top plate projecting forwardly beyond said window and having a depending return bent forward end, a bracket rigidly suspended beneath said top plate, a second bracket rigidly secured at its rear end to the first named bracket, with its forward end having a return bend positioned below and spaced from the forward edge of the first named bracket, a lamp socket supported by the first named bracket, a lamp in said socket, a rigidly mounted light reflector for said lamp, and a shield detachably supported at its upper edge between the forward end of said brackets and depending in front of said window below the reflector to shield the eyes of a person standing in front of the case from the rays of light from said lamp.

2,169,348

TYPEWRITING MACHINE

Anthony Utz, Hartford, Conn., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York

Application December 30, 1937, Serial No. 182,590
7 Claims. (Cl. 197—33)



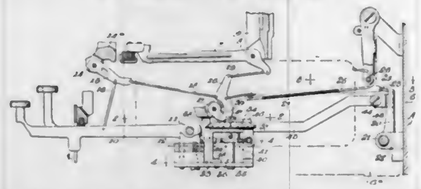
1. In a typewriting machine, the combination with a main frame including a side wall having an opening, of a plurality of type actions supported within said frame, an anchor plate pivotally mounted within said frame, springs respectively connecting the type actions and the anchor plate, a worm shaft rotatably mounted within the main frame adjacent the opening in said side wall, a manually operable disc fixed to said shaft and projecting outwardly through said opening, a worm driven by said worm shaft, and operating connections between said worm and said anchor plate for rocking the latter to effect an adjustment of said springs upon rotation of said disc.

2,169,349

TYPEWRITING MACHINE

Lewis C. Myers, Freeport, N. Y., assignor to Royal Typewriter Company, Inc., New York, N. Y., a corporation of New York

Application December 30, 1937, Serial No. 182,591
12 Claims. (Cl. 197—33)



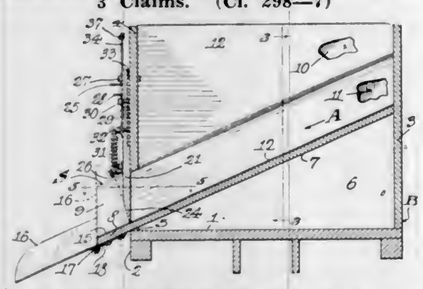
1. In a typewriting machine, the combination with a main frame including a wall, of a plurality of type actions supported within said frame, an anchor plate pivotally mounted within said frame, springs respectively connecting the type actions and the anchor plate, an indicator dial rotatably supported within the frame and projecting outwardly through said wall, a manually operable element rotatably supported within the frame and projecting outwardly through said wall, and operating connections between the dial, the element, and the anchor plate for effecting conjoint movements thereof.

2,169,350

FEEDING BOX

Montie A. Wallace, Sanderson, Tex.

Application February 28, 1939, Serial No. 259,031
3 Claims. (Cl. 298—7)



1. A dispensing device for vehicles, comprising a body including a rear wall having an opening, the body comprising an inclined bottom leading to the opening, cleats on the rear wall and defining a guideway above the opening, upper and lower cross pieces attached to the cleats and extended across the guideway, a gate retained by the cross pieces in the guideway for sliding movement, a securing device mounted on the gate, a gate-closing pull spring connected to the securing device and to the lower cross piece, a stop on the gate and cooperating with the upper cross piece to limit the opening movement of the gate, and means connected to the securing element, and under the control of an operator, to bring about an opening of the gate.

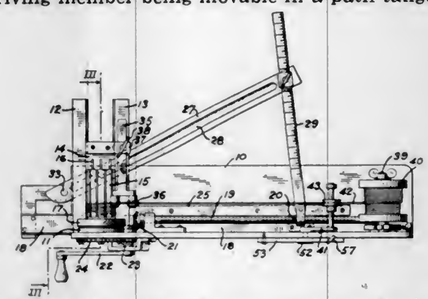
2,169,351

MACHINE TOOL FEED CONTROLLING MEANS

Frank Bednarek, San Francisco, Calif.

Application October 1, 1937, Serial No. 166,827
6 Claims. (Cl. 242—25)

1. In a device of the character described, the combination of a rotatable work supporting member, a tool support adjacent said member, a slidable carriage for said tool support movable in a line parallel with the axis of said rotatable work supporting member and having a slot engaging extension, a carriage driving member having an angularly disposed slot into which said slot engaging member is slidably disposed, said carriage driving member being movable in a path tangent



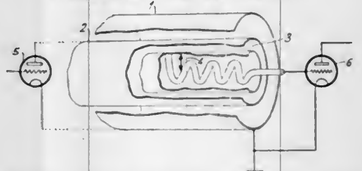
to the axis of said work supporting member, and means for rotating said work supporting member and simultaneously moving said carriage driving member with respect to said tool supporting carriage, whereby said slidable carriage will move parallel to the axis of said rotatable work supporting member at a relative speed as determined by the angular disposition of the slot on said carriage driving member.

2,169,352

SHORT WAVE COMMUNICATION CIRCUIT

Werner Buschbeck, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application April 9, 1937, Serial No. 135,840
In Germany May 2, 1936
7 Claims. (Cl. 179—171)



6. A series tuned resonant circuit comprising inner and outer concentric hollow conductors spaced from each other in such manner as to provide substantially uniformly distributed capacitance therebetween, and a helical inductance element located within the inner hollow conductor and connected thereto at a point in the length of said inductance element, the terminals of said tuned circuit comprising said outer hollow conductor and another point on said inductance, the capacitance between said hollow conductors forming a cylindrical condenser which together with the inductance of said helical element combines to form said resonant circuit.

2,169,353

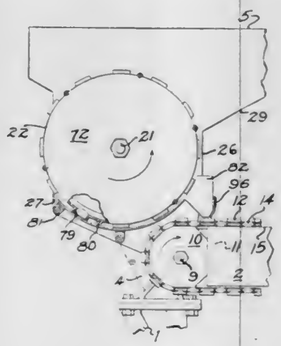
FRUIT-PROCESSING APPARATUS

Ellsworth W. Carroll, San Francisco, Calif., assignor to Sussman, Wormser & Co., San Francisco, Calif., a corporation of California

Application March 30, 1937, Serial No. 133,806
8 Claims. (Cl. 198—56)

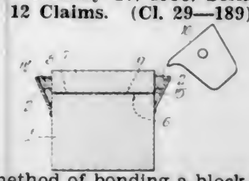
3. Means for presenting fruit or the like in

spaced relationship for processing, comprising a frame, a hopper supported thereon having opposed parallel sides, a movable bottom fixed pivotally in said hopper, a shaft journaled through said frame, means for agitating said bottom, alined spacing drums fixed to said shaft closely adjacent said parallel hopper sides, each of said spacing drums comprising a flanged circular member fixed to an end of said shaft, a number of spacing rings positioned concentrically about said shaft, bolts securing said rings to said flanged member and having a plurality of evenly spaced apertures radially disposed through said rings; and ports disposed through said parallel hopper sides centrally opposite said drums.



5. Means for presenting fruit to be processed to a fruit processing device in spaced relationship, comprising a frame, a hopper supported thereon having apertured parallel sides and a movable bottom pivotally fixed therebetween, said bottom having an apical portion parallel to said sides centrally disposed between side portions sloping outwardly and downwardly therefrom, an idler shaft journaled in said frame, cranks terminally connected to said side portions of said bottom and rotatably supported about said idler shaft, a roller terminating the unconnected crank end, a main shaft journaled in said frame, a star wheel keyed thereon, said idler shaft and main shaft being so positioned that said roller engages said star wheel, whereby rotation of said main shaft produces agitation of said bottom; a driven shaft journaled through said frame, gears fixed upon said main shaft, said idler shaft, and said driven shaft, so positioned and arranged that rotation of said main shaft produces corresponding rotation of said driven shaft, spacing drums disposed upon said driven shaft closely adjacent said parallel hopper sides, each of said spacing drums comprising a circular member centrally fixed to said shaft and a plurality of spacing rings fixed to said member concentrically about said shaft, and a plurality of radial apertures spaced symmetrically through each of said rings; ports disposed through said parallel hopper sides into said spacing drums, ejecting means associated with said spacing rings, driving drums disposed upon said main shaft symmetrically about said frame, a plurality of conveyor-chain-driving teeth thereon, a plurality of conveyor chains disposed thereupon, said teeth being so positioned and arranged that said chains are alined with said spacing rings, and guideways supported upon said frame in external registry with said spacing ring apertures.

2,169,354
METHOD OF AND MEANS FOR PRODUCING STEEL CLAD WITH STAINLESS STEEL
Thomas B. Chace, Winnetka, Ill., assignor, by direct and mesne assignments, to Clad Metals Industries, Inc., a corporation of Illinois
Application February 17, 1936, Serial No. 64,281
12 Claims. (Cl. 29—189)



1. The method of bonding a block of corrosion resisting alloy steel to a block of low carbon steel for cladding purposes, which comprises welding a mould strip about the upper surface of one of the blocks to provide a basin the bottom of which is formed by the face of the said block, depositing a layer of powdered bonding metal upon the top surface of said one block, superposing the other block upon said one block, pressing said blocks together to densify the powdered bonding material, disposing a sealing material in said basin about the second block, and heating the assembly to bonding temperature.

2. The method of claim 1 with the added step of pouring molten iron into the basin to weld the margins of the blocks together while the blocks are substantially at bonding temperature.

2,169,355
COLOR-GRADING SYSTEM
Willi M. Cohn, Berkeley, Calif.
Application August 17, 1936, Serial No. 96,386
8 Claims. (Cl. 88—14)

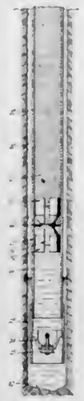


8. The method of color grading objects normally presenting a color indicating a desired classification and a somewhat different color indicating undesirability as to said classification, which comprises, illuminating such objects with light having line spectrum characteristics of the color indicating the desired classification, simultaneously illuminating said objects with light of substantially continuous spectrum characteristics whereby contrast between the color indicating desired classification and other colors will be accentuated while at the same time maintaining approximately the normal appearance of such objects, and separating objects of the desired color from those of other colors.

2,169,356
LOWER CEMENTING PLUG
Zeb A. Dyer, Los Angeles, Calif., assignor of one-fourth to Charles Lamb and one-fourth to Douglas R. Radford, both of South Pasadena, Calif.
Application December 22, 1937, Serial No. 181,133
9 Claims. (Cl. 166—1)

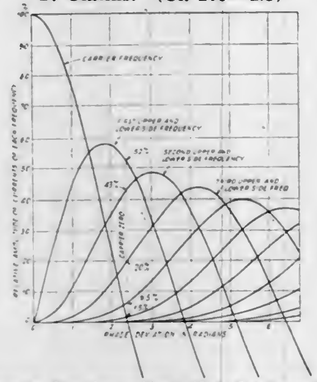
1. In a cementing plug for use in cementing

casings in deep wells, the combination of: a body having a reduced middle portion adapted to receive an annular washer; an annular rubber washer mounted on said portion; and guide heads formed on opposite ends of said body of slightly



less diameter than the outside diameter of said washer, there being longitudinal free fluid passages in said heads between the spaces adjacent opposite faces of said washer and opposite ends of said body.

2,169,357
PHASE MODULATION TYPE FREQUENCY INVERTER
Clarence W. Hansell, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application August 31, 1938, Serial No. 227,635
17 Claims. (Cl. 179—1.5)

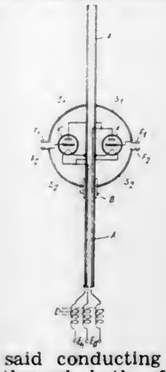


1. Means for inverting the frequencies of a band of frequencies comprising in combination, a source of carrier current, means for phase modulating the carrier current by constant frequency current and for modulating one of the said currents by the band of frequencies to be inverted.

2,169,358
RECEIVER FOR ULTRA-SHORT WAVES
Hans E. Hollmann, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application June 18, 1937, Serial No. 148,860
In Germany July 18, 1936
6 Claims. (Cl. 250—20)

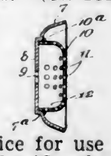
1. An ultra-short wave system comprising an

oscillatory circuit constituted by a conducting rod and a pair of hollow semi-spherical shaped metallic members spaced along said rod and electrically connected thereto, said members being arranged to form a hollow sphere and being separated from each other at their adjacent edges, whereby there is a capacity effect between said



adjacent edges, said conducting rod being arranged to pass through both of said members to form a dipole antenna, and a multi-electrode electron discharge device located within said sphere and having one of its electrodes connected to said rod, and another of its electrodes connected to one of said members.

2,169,359
ORIFICE DEVICE
William T. Jones, Newton, and Orville E. Hartford, Malden, Mass., assignors to Barnes & Jones, Incorporated, Jamaica Plain, Mass., a corporation of Massachusetts
Substituted for abandoned application Serial No. 191,222, February 18, 1938. This application December 5, 1938, Serial No. 243,978
3 Claims. (Cl. 181—56)

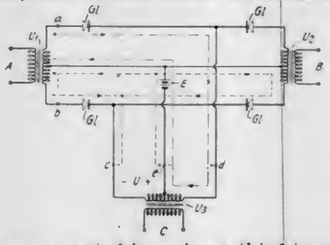


1. An orifice device for use at the inlet of a steam radiator, said orifice device comprising an orifice plate having a constantly open orifice aperture therethrough and a marginal supporting portion, a cup-like housing at the delivery side of the aperture having its concavity arranged to receive the fluid delivered through the aperture, and means fixedly uniting the edge of the rim of the cup-like housing to the plate, thereby to form a unitary structure, the wall of the housing having a multitude of small openings for the passage of fluid, the aggregate area of said openings being greater than the area of the orifice aperture, the housing thereby being operative to diffuse the fluid which it receives through the orifice aperture and to prevent objectionable noise.

2,169,360
TRANSMISSION LINE
Hermann Kimmel, Munich-Nymphenburg, Germany, assignor to Siemens & Halske Aktiengesellschaft, Siemensstadt-Berlin, Germany, a corporation of Germany
Application August 12, 1937, Serial No. 158,729
In Germany August 13, 1936
11 Claims. (Cl. 178—44)

1. A circuit for connecting a two wire line to

transmission and reception branches of a four wire system comprising a pair of transformers each having a center-tapped winding, a connection between said center-taps and means connecting the corresponding ends of said windings together, each of said means including a pair of



rectifiers connected in series, a third transformer having its primary connected to said two wire line and a secondary, a connection between each end of said secondary to said means between said rectifiers, and means effectively connecting said center-tap connection to the electrical center of said secondary.

2,169,361

VARNISHES, VARNISH FORMING SUBSTANCES, AND METHODS OF PRODUCING SAME

Siegfried Kohn, Philadelphia, Pa., assignor to The Resinous Products & Chemical Company, Philadelphia, Pa.

No Drawing. Application May 15, 1931, Serial No. 537,746

15 Claims. (Cl. 260—25)

15. As a new article of manufacture, a member of the group consisting of (1) an oil soluble condensation product obtainable by condensing less than ¾ of a mol of formaldehyde and one mol of a complex crystalline phenol, obtainable by the condensation of a phenol and a ketone and (2) a condensation product of the class defined, modified by a natural resin.

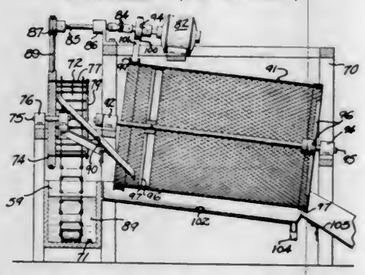
2,169,362

MEANS FOR THE PREPARATION OF GLACÉ FRUIT

Charles Lachman, San Francisco, Calif., assignor to S & W Fine Foods, Inc., San Francisco, Calif., a corporation of California

Original application March 12, 1937, Serial No. 130,522. Divided and this application August 3, 1938, Serial No. 222,822

6 Claims. (Cl. 99—239)



1. A continuous food processing device comprising an enclosing casing, a strainer within said casing, means for introducing material to be processed into said strainer, means for agitating the material within the strainer, means for discharging drained material from said strainer, and means for introducing during the straining period an atmosphere of hot air substantially saturated with water vapor into said casing but outside of the region of drainage.

2,169,363

OLEFIN-SULPHUR DIOXIDE REACTION PRODUCTS

Carl Shipp Marvel and Donald Sherwood Frederick, Urbana, Ill.; said Frederick assignor to said Marvel

No Drawing. Application April 29, 1936, Serial No. 77,022

14 Claims. (Cl. 260—94)

1. Process which comprises reacting sulphur dioxide, in the presence of an aldehyde from the group consisting of aldehydes having the formula RCHO in which R represents an aliphatic hydrocarbon radical, paraldehyde, para-formaldehyde, benzaldehyde, terephthaldehyde, and p-toluic aldehyde, with an olefinic compound having the formula

$$X-C=C-H$$
$$\quad\ Y\ \ Z$$

in which X is a member of the group consisting of hydrogen, methyl, and hydroxy methyl, Y is a member of the group consisting of hydrogen, methyl, hydroxy methyl, and, with Z, a saturated divalent hydrocarbon radical containing less than seven carbon atoms, and Z is a member of the group consisting of hydrogen, unsubstituted alkyl groups, alkyl groups having at least one hydrogen atom replaced by a member of the group consisting of hydroxy and cyclo aliphatic hydrocarbon and, with Y, a saturated divalent hydrocarbon radical containing less than seven carbon atoms, provided that X, Y and Z are not all alkyl groups.

2,169,364

ACYLATED OLEFIN-SULPHUR DIOXIDE REACTION PRODUCTS

Carl S. Marvel, Urbana, Ill., and Donald S. Frederick, Moylan, Pa.; said Frederick assignor to said Marvel

No Drawing. Application September 9, 1938, Serial No. 229,090

11 Claims. (Cl. 260—94)

1. Process comprising treating a polysulphone resin obtained by reacting sulphur dioxide with an olefin, with an acylating agent.

2,169,365

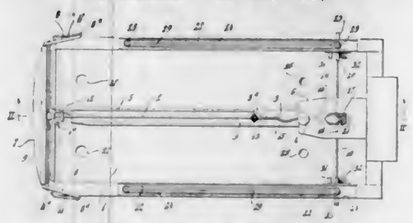
GAME APPARATUS

Arthur Percival Masters, Wellington, New Zealand, assignor of one-half to Henry Vaughan Clere Welsby, Wellington, New Zealand

Application January 21, 1939, Serial No. 252,058

In New Zealand December 14, 1935

10 Claims. (Cl. 273—35)



1. In a game apparatus, indicating means for

cumulatively indicating the various successive drives imparted to a ball adapted to be projected toward a screen, comprising a movably supported rod-like member having a screen connected to one end thereof, said rod-like member being longitudinally movable in response to impacts of the ball with said screen, a cross rod connected transversely of the rod-like member to the other end of the latter member, means actuated by the rod-like member during longitudinal movement of the same and effective to cause rotation of said cross rod, an endless belt mounted on a pair of pulleys and having an indicator, and means connecting said cross rod and endless belt in order to impart movement thereto by rotation of the cross rod caused by longitudinal movement of the rod-like member as a result of impact of the ball with the screen.

2,169,366

MOISTUREPROOF MATERIAL AND METHOD OF MAKING THE SAME

Frederick M. Meigs, Niagara Falls, N. Y., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application May 27, 1937, Serial No. 145,093

39 Claims. (Cl. 91—68)

1. A moistureproofing composition comprising an aqueous solution of the salt of an amino polymer, which polymer is substantially insoluble in water and in 5% aqueous ammonia but soluble in 2% aqueous acetic acid and in toluene, and dispersed therein a moistureproofing agent, the ingredients of the composition being present in such proportions as to form a moistureproof, flexible, smear-resistant film upon evaporation of the water at an elevated temperature.

23. The method of moistureproofing comprising applying to a material to be moistureproofed a moistureproofing composition comprising an aqueous solution of the salt of an amino polymer, which polymer is substantially insoluble in water and in 5% aqueous ammonia but soluble in 2% aqueous acetic acid and in toluene, said composition having dispersed therein a moistureproofing agent, and then drying said composition at a temperature above the melting point of the moistureproofing agent.

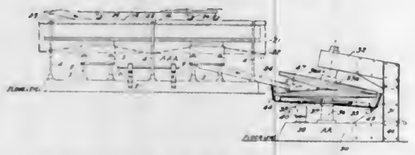
2,169,367

METHOD FOR PREPARING FRUIT JUICE

John Mills, Winter Haven, Fla., assignor, by mesne assignments, to Crown Can Company, Philadelphia, Pa., a corporation of Pennsylvania

Application April 24, 1936, Serial No. 76,277

6 Claims. (Cl. 99—155)



1. The method of packaging citrus fruit juices which includes the steps of continuously moving the fruit in a controlled manner through a curved path of travel defined by stationary walls, puncturing the hull of the whole fruit at a multitude of closely spaced points by repeatedly bringing the fruit into instantaneous contact with relatively short oil cell opening projections on the stationary walls while turning the fruit to bring substantially its entire external area into contact with the projections, thereby removing the major quantity of the rind oil from substantially the entire surface of the fruit and leaving therein only a small regulated quantity of the rind oil without removing any substantial areas of the hull from the fruit, opening the fruit and removing the juice therefrom by squeezing the whole fruit to rupture the hull and force the juice therefrom, and simultaneously removing from the hull of the fruit and mixing with the juice a regulated remaining small amount of rind oil sufficient for flavoring purposes, sterilizing the juice and sealing it in containers.

2,169,368

OXIDIZING AGENT AND METHOD OF MAKING

Wallace J. Murray, Dedham, and Earl P. Stevenson, Newton, Mass.

No Drawing. Application June 12, 1936, Serial No. 84,898

24 Claims. (Cl. 260—369)

1. Process of making oxidizing agents, comprising the step of dissolving an oxidizing acid in an excess of a tertiary alcohol.

10. Process of purifying oxidizing acids comprising extracting them with a tertiary alcohol and subsequently separating them from the tertiary alcohol.

21. A process for producing anthraquinone, consisting of mixing a tertiary butyl alcohol solution of anthracene with a solution of tertiary butyl chromate in tertiary butyl alcohol to oxidize the anthracene into anthraquinone, and separating the anthraquinone.

2,169,369

PROCESS FOR SCRUBBING GASES CONTAINING LOW BOILING ALDEHYDES

Robert H. Osterloh, Cyrus Pyle, Joe E. Voytilla, and Robert C. Ficke, Waynesboro, Va., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application November 17, 1936, Serial No. 111,274

5 Claims. (Cl. 260—601)

1. The process which comprises scrubbing the exit gases issuing from the oxidation of a low boiling aldehyde with a scrubbing liquid containing an agent which will inhibit foam formation.

2,169,370

SOUND-ABSORBING ARTICLE

John S. Parkinson, Somerville, N. J., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York

Application December 19, 1936, Serial No. 116,709

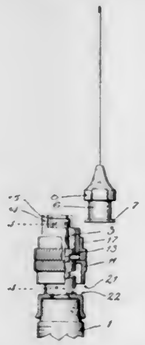
8 Claims. (Cl. 154—44)



4. A sound-absorbing article comprising a base, a substantially air-impermeable vibratile sheet

disposed over and in spaced relationship to said base and exposed on its face to the sound to be absorbed, a compressible, fibrous vibration-damping member confined behind said sheet and capable of independent movement relatively to said sheet over the entire area of said member, said member being in contact with the major portion of the area of the sheet when the latter is vibrating, whereby said member serves to damp vibrations of said sheet, and independent means defining a predetermined area supporting said sheet from said base.

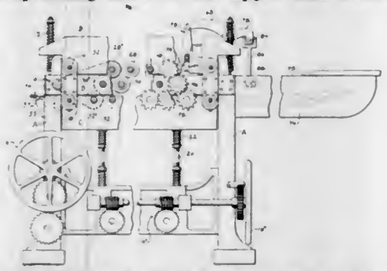
2,169,371
SYRINGE
Mathew Payne, Rochelle Park, N. J.
Application September 1, 1936, Serial No. 98,839
5 Claims. (Cl. 128—221)



1. In a syringe, means to attach thereto a fluid-conveying device chambered to receive a nozzle and having a locking projection, said means comprising a nozzle to enter such chamber to support the fluid-conveying device and a sleeve outside said nozzle having a shoulder to engage the locking projection of the fluid-conveying device to hold the latter to the nozzle, said nozzle and sleeve being screw-threaded one to the other for adjustment of the sleeve lengthwise of the nozzle, and the length of the sleeve including the screw-thread element thereof being greater than the distance from the discharge end of the nozzle to the screw-thread element of the nozzle so that the sleeve can be adjusted, with the screw-thread elements in co-operating relation to each other, from a position whereat said shoulder is located alongside the nozzle to a position whereat said shoulder is beyond the end of the nozzle sufficiently to permit the fluid-conveying device to be seated on the nozzle and the locking projection thereon passed beneath said shoulder.

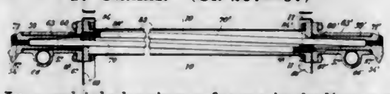
2,169,372
FELT TREATING MACHINE
Joseph S. Pecker, Philadelphia, Pa.
Application February 8, 1937, Serial No. 124,728
5 Claims. (Cl. 28—6)

1. The combination with a felt treating machine including upper, lower and intermediate rollers, of means at the end of the machine, opposite the feed end thereof, for causing the felt which has passed between the upper and intermediate series of rollers in one direction to reverse its direction of movement and pass between the intermediate and lower series of rollers, comprising a traveling flexible element passing over corresponding sides of the upper and lower ad-



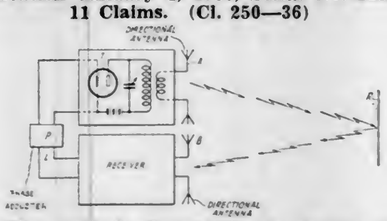
jacent rollers and around the opposite side of the adjacent intermediate roller.

2,169,373
VEHICLE SUSPENSION
Ferdinand Porsche, Stuttgart, Germany, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany, a company of Germany
Original application January 25, 1932, Serial No. 588,719. Divided and this application October 21, 1937, Serial No. 170,183. In Germany August 10, 1931
17 Claims. (Cl. 267—57)



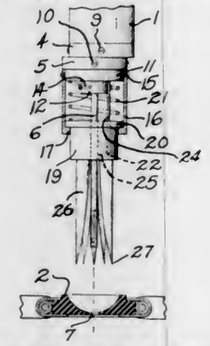
1. In a vehicle having a frame including a pair of spaced apart longitudinally extending members, wheels for said vehicle, means for individually and independently supporting one of said wheels, comprising a pair of substantially longitudinally extending supporting members, means for pivotally connecting one end of each of said members to said wheel, torsional spring means, means for holding one end of said torsional spring means against rotation including means attached to one of said longitudinal frame members, means for journaling said torsional spring means near its other end to the other of said longitudinal frame members, means for attaching the journaled end of said torsional spring means to the other end of one of said supporting members, and means for journaling the other end of the second supporting member relatively to the frame.

2,169,374
OSCILLATION GENERATION SYSTEM
Walter van B. Roberts, Princeton, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application January 4, 1937, Serial No. 118,943
11 Claims. (Cl. 250—36)



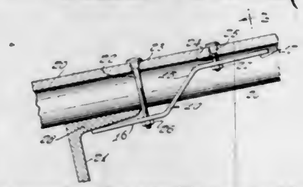
1. The method of operating a vacuum tube having an input circuit and an output circuit which comprises radiating waves from said output circuit toward a distant point, reflecting said waves at said distant point in the form of space radiation back toward said tube, separately receiving said reflected waves and supplying said input circuit with said waves in such phase as to produce maximum output from said tube.

2,169,375
CHERRY PITTER HEAD
John Sanchez, San Francisco, Calif., assignor to S & W Fine Foods, Inc., San Francisco, Calif., a corporation of California
Application June 1, 1938, Serial No. 211,153
3 Claims. (Cl. 146—19)



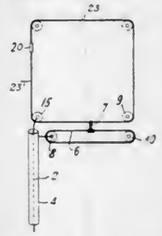
1. In combination with a reciprocating head arranged to move downward in synchronism with the movement into registry therebeneath of centrally apertured conveyor cups, means for pitting cherries and similar fruit comprising a shank fixed to said reciprocating head, a punch fixed to and axially alined with said shank, a centrally apertured needle head slidably disposed about said punch, resilient means for maintaining normally a desired separation between said needle head and said shank, a cylindrical element fixed to said shank arranged to act as an external guide for said needle head, an inwardly directed flange formed on said cylindrical element positioned to prevent movement of said head by said resilient means thereby, means for preventing rotation of said head within said cylindrical element, and a plurality of needles fixed in said needle head parallel to and symmetrical about said punch.

2,169,376
STRUCTURAL ASSEMBLY
Paul A. Voigt, Bellerose, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application January 12, 1938, Serial No. 184,549
2 Claims. (Cl. 108—33)



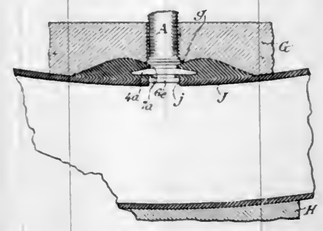
1. A structural assembly comprising a corrugated covering sheet, a support therefor including a flange and a securing clip, said clip comprising extended, planar similarly shaped and proportioned end portions lying in spaced substantially parallel planes and an intermediate portion at an angle to said end portions, the end portions of the clip underlying the flange and sheet, respectively, and being pressed thereagainst by means passing through the sheet and the end portions of the clip adjacent the intermediate portion of the clip.

2,169,377
ANTENNA
Ludwig Walter, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application December 21, 1937, Serial No. 180,948
In Germany December 21, 1936
12 Claims. (Cl. 250—33)



1. An antenna arrangement comprising an antenna conductor having a variable length radiating portion, a transmission line having one element connected to one end of said antenna conductor and means for matching said antenna to said transmission line comprising a Lecher line connected to the end of said transmission line and means for varying the length of said Lecher line as the radiating length of said antenna conductor is varied.

2,169,378
METHOD OF FORMING RUBBER-HEADED VALVE STEMS
Selden T. Williams, Bellerose, N. Y., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut
Application September 10, 1935, Serial No. 39,882
2 Claims. (Cl. 154—14)



2. The method of forming a valve stem and inflatable body assembly, which comprises providing a valve stem having an enlarged foot portion of rubber, from the underside or inflatable body-engaging face of which extends an axial projection of reduced diameter and applying the enlarged foot portion of the valve stem to the outer wall of a vulcanizable inflatable body having a valve stem opening therein, so that the axial projection on the inflatable body-engaging face of the enlarged foot portion engages in the valve stem opening in said wall and the enlarged portion overlies and engages the wall surrounding said opening, and vulcanizing the assembly as a whole in a suitable mold.

2,169,379

ELEMENTAL SULPHUR FROM HYDROCARBON GASES CONTAINING HYDROGEN SULPHIDE

Hans Barkholt, Berlin-Halensee, Germany, assignor to Zahn & Co., G. m. b. H., Berlin, Germany

No Drawing. Application December 31, 1935, Serial No. 57,005
4 Claims. (Cl. 23—225)

1. In a process for producing elemental sulphur from hydrocarbon gases containing hydrogen sulphid, such as those obtained in the refining of mineral oil, the steps which comprise concentrating the hydrogen sulphide in said gases by removing a portion of the hydrocarbons, mixing the resulting gases with oxygen in a quantity suited to react with the hydrogen sulphide present to produce free sulphur and to effect complete combustion of the hydrocarbons, passing the mixed gases through a zone containing an oxidation catalyst that catalyzes the oxidation of hydrogen sulphide to free sulphur, and maintaining said gases while in said zone at temperatures between 400° and 500° C. at which free sulphur is formed and the depositing of free carbon on the catalyst is avoided.

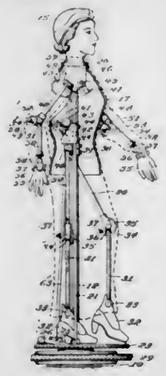
2. The process of producing elemental sulphur from hydrogen sulphide gases containing hydrocarbons which comprises, burning a portion of such hydrocarbon-containing gases to produce sulphur dioxide, mixing the resulting combustion gases with another portion of such hydrocarbon-containing gases in proportions to produce two parts of hydrogen sulphide to one part of sulphur dioxide, reacting the hydrogen sulphide with the sulphur dioxide and oxidizing the hydrocarbons to form free sulphur, carbon dioxide and water by heating the mixture to 400° to 500° C. in the presence of sufficient oxygen to oxidize the hydrocarbons and passing the same through a porous bed containing an oxidation catalyst that catalyzes the oxidation of hydrogen sulphide to free sulphur, maintaining the mixture while passing through said bed at temperatures above 400° C. at which sulphur remains free and the hydrocarbons in the mixture are completely oxidized, and collecting the free sulphur.

2,169,380

MECHANICAL MANIKIN

James H. Barrett, Okmulgee, Okla.

Application May 16, 1938, Serial No. 208,280
5 Claims. (Cl. 211—1.6)



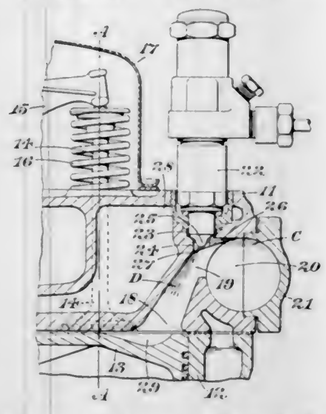
1. A mechanical manikin comprising a base, a stationary shaft rising from the base, a sleeve rotatively mounted on the shaft, a manikin torso carried by the sleeve, a manikin head carried by the sleeve, jointed legs pivotally connected to the sleeve, shafts disposed transversely of the upper end of the sleeve, jointed arms pivotally connected to the shafts, rods extending longitudinally of the sleeve and having crank connections at the upper ends with said arms for swinging the arms, cams on the rods engaging the legs for swinging the legs, a gear fixed to the sleeve for rotating the manikin on a vertical axis, a gear loose on the shaft below the first named gear, cam means carried by the last named gear for moving said rods to impart movement to the legs and arms, and drive means for driving both of the gears simultaneously or independently of each other.

2,169,381

INTERNAL COMBUSTION ENGINE OF THE COMPRESSION IGNITION TYPE

Charles Wallace Chapman, Peterborough, England, assignor to F. Perkins Limited, Peterborough, Northamptonshire, England, a British company

Application November 17, 1937, Serial No. 174,959
In Great Britain December 17, 1936
4 Claims. (Cl. 123—32)



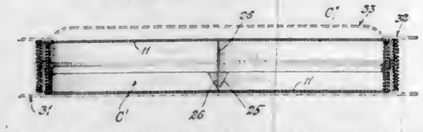
1. In a compression-ignition engine the combination of a working cylinder, a cylinder head, a combustion chamber approximating to a figure of revolution located in the side of the cylinder head, a transfer passage in the cylinder head affording communication between the combustion chamber and the working cylinder and extending from the end of the working cylinder towards the combustion chamber from a point to one side of the cylinder axis, said transfer passage being inclined away from the cylinder axis and bent outwardly in the course of its length intermediate its ends so that it enters the combustion chamber tangentially, a fuel nozzle projecting through the cylinder head and terminating at the outer side of the bend substantially flush with the wall of the transfer passage at the point of entrance, a recess in the wall of the transfer passage at the entry of the fuel nozzle thereinto such as to permit the tip of the fuel nozzle to be substantially flush with the general contour of the transfer passage and yet to inject part of the fuel along the transfer passage towards the engine cylinder and simultaneously to inject part of the fuel along the transfer passage tangentially into the combustion chamber and away from the cylinder, and a piston and operative connections to expel air from the cylinder into the combustion chamber and transfer passage past the fuel injector on the compression stroke of the engine.

2,169,382

BOX

Anthony Di Domenico, Forest Hills, and Dominick Di Domenico, Brooklyn, N. Y.

Application June 11, 1936, Serial No. 84,636
8 Claims. (Cl. 229—8)



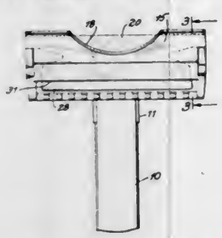
6. As a new article of manufacture, a component for a box of the class described, comprising a substantially heart-shaped body of sheet material having around its periphery a pressed-up integral flange, such flange having a slit at substantially the point of the heart, and a slit at substantially the apex of the heart, a band attached to the outer face of said flange, said band serving as a side wall element and surrounding completely the exterior side of the flange, and a strip of finish material attached to said band, covering completely the outer face of the band and extending downwardly within the side wall formed by the flange and the band.

2,169,383

RAZOR BLADE AND HOLDER THEREFOR

John E. Drew, Jersey City, N. J., assignor to Durham Duplex Razor Company, Jersey City, N. J., a corporation of New York

Application July 10, 1936, Serial No. 89,875
11 Claims. (Cl. 30—51)



1. A razor blade comprising a main body portion, and a flexible tongue at each end thereof having one end free and the other end integrally connected with said body portion, said tongues extending at substantially a right angle to the length of the blade, and the ends of said body portion being notched opposite said tongues to provide a narrow neck joining each of said tongues with said body portion.

2,169,384

MANUFACTURE OF FOUNDRY MOLDS

John Howe Hall, Philadelphia, Pa., assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa., a corporation of Pennsylvania

No Drawing. Application November 5, 1938, Serial No. 239,179
2 Claims. (Cl. 22—189)

2. A foundry mold having a facing consisting principally of a fine granular material of the class consisting of zirconia and zirconium silicate bonded with cement.

2,169,385

MANUFACTURE OF FOUNDRY MOLDS

John Howe Hall, Philadelphia, Pa., assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa., a corporation of Pennsylvania

No Drawing. Application November 5, 1938, Serial No. 239,180
2 Claims. (Cl. 22—189)

2. A foundry mold having a facing consisting principally of fine granular high alumina aluminum silicate bonded with cement.

2,169,386

MANUFACTURE OF FOUNDRY MOLDS

John Howe Hall, Philadelphia, Pa., assignor to Birdsboro Steel Foundry & Machine Company, Birdsboro, Pa., a corporation of Pennsylvania

No Drawing. Application November 5, 1938 Serial No. 239,181
2 Claims. (Cl. 22—189)

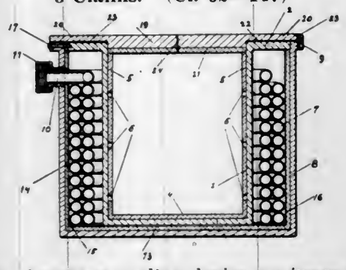
2. A foundry mold having a facing consisting principally of fine granular titanium dioxide bonded with cement.

2,169,387

BEVERAGE COOLER

Alan Lawrence Hann, Newark, N. J.

Application March 2, 1937, Serial No. 128,592
5 Claims. (Cl. 62—147)



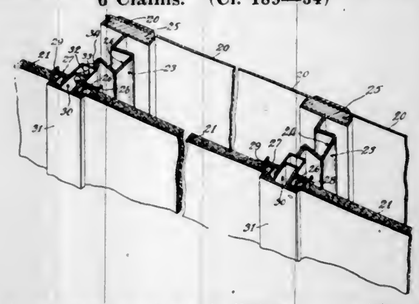
4. In a beverage cooling device, an inner chamber of heat conducting material adapted to receive a solid refrigerant, heat insulating material perforated at intervals to retard heat exchange lining the inner chamber, dry ice disposed in the inner chamber, a beverage conduit arranged in heat exchange relation around the inner chamber, a heat insulating shell enclosing the inner chamber and beverage conduit, a heat insulatory cover for the inner chamber, a vent hole in the heat insulating cover.

2,169,388

METAL BUILDING STRUCTURE

Edgar W. Ingram and Loyd W. Ray, Columbus, Ohio, assignors to White Castle System, Inc., Columbus, Ohio, a corporation of Delaware

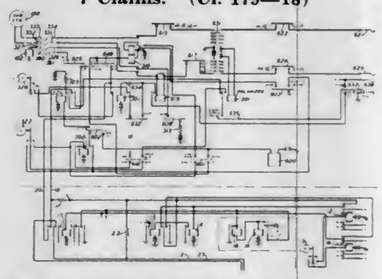
Application March 25, 1935, Serial No. 12,859
6 Claims. (Cl. 189—34)



6. A metal stud for buildings comprising two

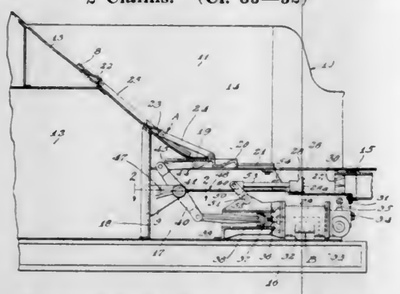
continuous sheet metal members having web portions in securing engagement and their edge portions forming channels for wall panel securing means, the engagement-securing portions of said webs being positioned to have an empty space in the medial plane of the studding, and panel clamping means accessible in said space for clamping operation.

2,169,389
SELECTOR RELEASE CIRCUIT
Charles W. Keckler, Summit, and Arthur Raynsford, Bergenfield, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application September 11, 1937, Serial No. 163,376
7 Claims. (Cl. 179—18)



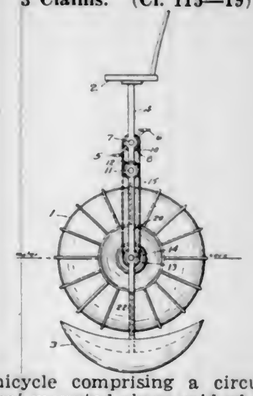
1. In a telephone system, a calling subscriber's line, a called subscriber's line, a selector switch, means including said selector switch for establishing a telephone connection between said calling and called subscribers' lines, means normally under the control of said calling subscriber's line for releasing said selector switch, means common to a plurality of said selector switches and controlled by said called subscriber's line for transmitting a release signal to said selector switch and means in said selector switch responsive to said signal for releasing said connection to free said called line.

2,169,390
LOCOMOTIVE TENDER
James W. McCurdy, Erie, Pa., assignor to The Standard Stoker Company, Incorporated, a corporation of Delaware
Application April 15, 1937, Serial No. 137,017
2 Claims. (Cl. 83—52)



1. In a locomotive tender having a fuel bin including a floor, a hopper at the forward end of said fuel bin beneath the level of said fuel bin floor, a conduit communicating with said hopper and extending forwardly therefrom, an element of a crusher rigidly mounted in the forward end of the hopper at the communicating portions of said hopper and said conduit, a reciprocating engine mounted on the tender beneath the fuel bin floor, means for moving fuel forwardly along the floor of said fuel bin to said hopper, means transmitting reciprocating movement from said engine to said fuel advancing means, means in said hopper for moving forwardly therethrough to said conduit, said means including a crusher element cooperating with said first-named crusher element for crushing the fuel as it is delivered to said conduit, and means transmitting reciprocating movement from said engine to said second-named fuel advancing means.

2,169,391
WATER UNICYCLE
Walter E. Nilsson, New York, N. Y.
Application January 31, 1939, Serial No. 253,754
3 Claims. (Cl. 115—19)



1. A unicycle comprising a circular tubular wheel, a seat mounted above said wheel, a weight forming a keel, means suspending the said weight below said tubular wheel, and means mounted between the seat and tubular wheel and connected to the wheel for rotating the said tubular wheel.

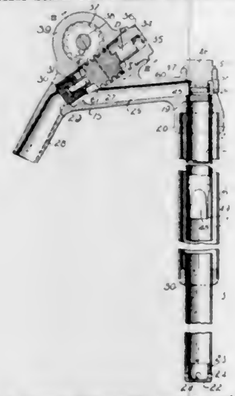
2,169,392
PROCESS FOR THE PRODUCTION OF CELLULOSIC TEXTILE FABRIC
Donald H. Powers, Moorestown, N. J., and Onslow B. Hager, Philadelphia, Pa., assignors to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application May 1, 1937, Serial No. 140,170
6 Claims. (Cl. 91—70)

1. The process of improving cellulosic fabrics and yarn which comprises applying to the fibers thereof a coating of cellulosic material selected from the group consisting of cellulose and cellulose ethers permeable to aqueous solutions, impregnating the coated fibers with an aqueous solution of a hardenable urea-formaldehyde product, drying and heating to harden the urea-formaldehyde product.

2,169,393
DIRECT TAPPING FAUCET STRUCTURE
Frank E. Rice, Detroit, Mich., assignor to American Tap-Bush Company, Detroit, Mich., a corporation of Delaware
Application January 17, 1938, Serial No. 185,257
8 Claims. (Cl. 225—3)

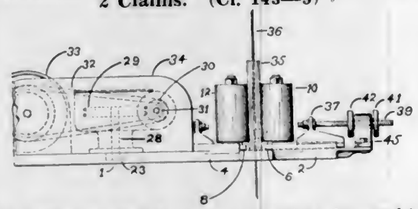
1. In a beer barrel tapping device for drawing beer directly from a barrel, a tube adapted for

communication with the interior of the barrel and maintained in vertical position when in place for tapping purposes, and a member supported within said tube and materially restricting



the flow of beer through said tube, said member being suspended by its upper end with its lower end free whereby said member is capable of swinging movement within said tube.

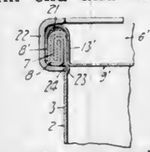
2,169,394
FEEDING MECHANISM
Jairus S. Richardson, Sheboygan Falls, Wis.
Application March 15, 1937, Serial No. 130,903
2 Claims. (Cl. 143—5)



1. Feeding mechanism comprising, in combination, a feeding roller base, a feeding roller mounted thereon, a second base, an adjusting sleeve having threaded connection to said second mentioned base, an adjusting rod slidably fitting in said sleeve and attached to said feeding roller base, a stop limiting motion of said adjusting rod in the direction of said base, an adjusting wheel threadedly mounted on said adjusting sleeve and a spring positioned intermediate said adjusting wheel and said roller base and adjustable to vary the thrust thereof against said roller base by means of said adjusting wheel without affecting the position of said feeding roller base.

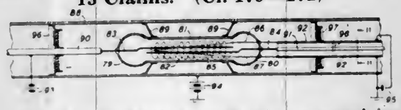
2,169,395
DRUM
Richard S. Rheem, Oakland, Calif., assignor to Rheem Manufacturing Company, Richmond, Calif., a corporation of California
Application September 28, 1935, Serial No. 42,634
1 Claim. (Cl. 220—66)

A reconditioned drum formed from a drum having a cylindrical side wall and a head covering an end of said drum and having a peripheral portion interseamed with an end peripheral portion of said wall to define a circumferential bead with said head portion lying across the end of the drum and extending longitudinally at the outer side of said bead, said reconditioned drum being formed with an opening provided by cutting away of said head at the inner periphery of said wall to leave the end and outer side portions of said head interseamed with said wall end without destroying said bead, a second head covering said open drum end and having a peripheral



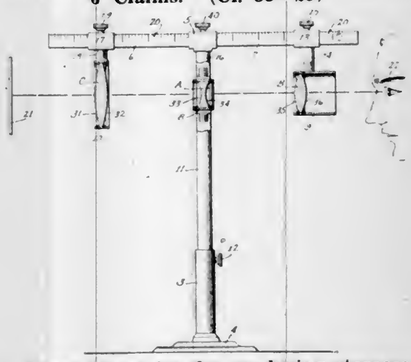
portion engaging the inner circumferential surface of said wall and extending over the end and outer side of said bead as provided by said first head portion, and a clamping ring surrounding said second head portion and bead for clamping the same together.

2,169,396
SIGNAL-TRANSLATING APPARATUS
Arthur L. Samuel, Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 8, 1936, Serial No. 78,594
15 Claims. (Cl. 179—171)



1. Signal translating apparatus comprising an electron discharge device including a cathode, an input electrode, and an output electrode, a pair of widely spaced leading-in conductors for said input electrode, and a plurality of leading-in conductors for said cathode, one of which is disposed in proximity to one of the leading-in conductors for said input electrode and remote from the other of said leading-in conductors for said input electrode, a resonant circuit connected to said one input electrode leading-in conductor and the cathode leading-in conductor in proximity thereto, a resonant circuit connected to said anode and said other leading-in conductor for said input electrode, and a third resonant circuit connected to said cathode and said anode.

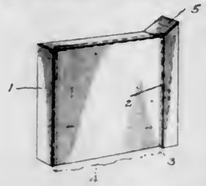
2,169,397
STEREOSCOPIC DEVICE
Charles H. Stanley, San Diego, Calif., assignor of one-third to Thomas Arthur Turner, San Diego, Calif.
Application May 9, 1938, Serial No. 206,828
6 Claims. (Cl. 88—29)



1. In an apparatus for producing stereoscopic

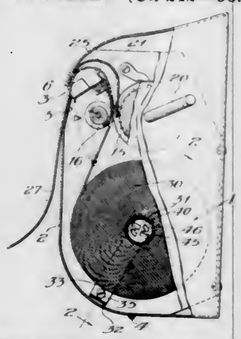
effects, the combination of a stand, two double convex lenses mounted thereon, a single double concave lens mounted on said stand and lineally interposed between said lenses, and means for linear adjustment of said convex lenses in respect to said concave lens.

2,169,398
TOOL-SHAPING TEMPLATE
John A. St. Clair, Indianapolis, Ind.
Application March 30, 1938, Serial No. 198,876
2 Claims. (Cl. 29—76)



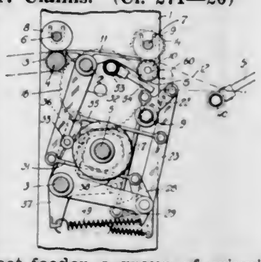
1. A gauge for forming a projection at the end of the cutting edge of a tool comprising a substantially angular body, the top end of said body having an elongated flat surface terminating in an upwardly beveled surface adjacent one edge of said body, a vertically extending shoulder on one face of said body the top end of which intersects said beveled portion at a point between the ends of the beveled portion, whereby when a cutting tool is placed against one face of the gauge with the cutting edge thereof engaging said shoulder and the top end of the tool substantially in line with the upper end of said shoulder, a projection will be formed at the end of the cutting edge of the tool when that portion of the tool projecting above the top of the gauge and beveled portion is removed from the tool.

2,169,399
DISPENSING CABINET AND MEANS FOR MOUNTING A SUPPLY ROLL THEREIN
Frank G. Steiner, Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah, a corporation of Utah
Application January 12, 1938, Serial No. 184,648
11 Claims. (Cl. 242—55.5)



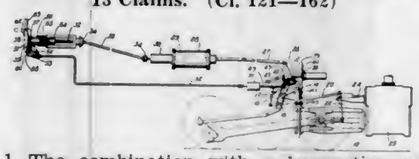
1. In a dispensing cabinet, a supply roll, means by which the roll is operatively connected to the cabinet and parts of which means are respectively on the roll and on the cabinet and must be first registered by motion in a direction transverse to the axis of rotation and then engaged by motion in an axial direction to complete the connection, and tongue and groove means on the roll and on the cabinet cooperative to positively guide and direct the registration of said connecting means, and arranged parallel with a diameter passing through the rotative axis of the roll.

2,169,400
ARRANGEMENT FOR FEEDING PAPER SHEETS
Nils Gustaf Allanson Strömberg and Georg Widlund, Stockholm, Sweden
Application May 26, 1936, Serial No. 81,946
In Sweden April 25, 1936
17 Claims. (Cl. 271—26)



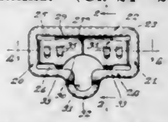
1. In a sheet feeder, a group of gripping members for initially engaging and lifting a sheet from a supply of sheets and a group of suction gripping members for moving between the supply and the lifted sheet and pulling the latter forward.

2,169,401
LOCK FOR LOCOMOTIVE VALVE GEARS
William Bell Wait, New York, N. Y.
Application May 14, 1935, Serial No. 21,407
13 Claims. (Cl. 121—162)



1. The combination with a locomotive valve gear including a tumbling shaft, of a friction brake at each end of said shaft normally maintaining the shaft against angular movement on its axis, means for adjusting said shaft angularly, and a single controller for releasing both of the brakes at will to permit of such adjustment of said shaft.

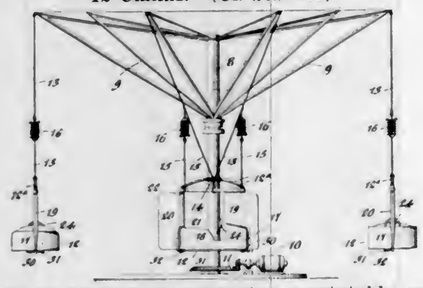
2,169,402
BUCKLE
Paul W. White, Chicago, Ill., assignor to Parva Products Company, Chicago, Ill., a corporation of Delaware
Application June 4, 1937, Serial No. 146,346
11 Claims. (Cl. 24—200)



4. A buckle constituting a frame having side bars and a pair of spaced cross bars connecting said side bars, and a divided cross bar connected to said side bars and provided with a gripping portion extending in one direction and angularly to the plane of the frame, a cooperating gripping portion on an adjacent cross bar lying in close proximity and extending in an opposite direction

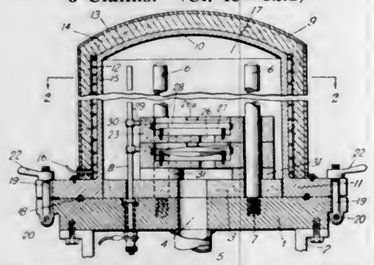
to and substantially parallel with said first mentioned gripping portion to form a slot through which a strap is threaded and gripped, said divided cross bar also forming another slot adjacent the other cross bar for receiving the free end of the strap, said divided cross bar being movable with respect to the frame to enlarge the slots for relatively free adjustment of the strap therethrough.

2,169,403
AMUSEMENT APPARATUS
Norman Bartlett, Weehawken, N. J.
Original application December 15, 1934, Serial No. 757,687, now Patent No. 2,107,196, dated February 1, 1938. Divided and this application November 27, 1937, Serial No. 176,839
12 Claims. (Cl. 272—41)



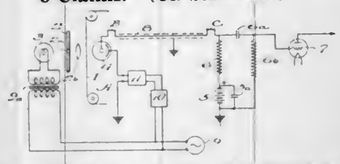
10. In amusement apparatus, a rotatable overhead support, a carriage suspended therefrom by flexible means whereby during rotation with the support the carriage may swing outwardly, said carriage having a plurality of substantially vertical airfoils pivoted thereto on spaced substantially vertical axes, and means for simultaneously moving said airfoils in the same direction either clockwise or counterclockwise about their respective pivotal axes.

2,169,404
METHOD OF PRODUCING LENSES
Theodore W. Buttner, Columbus, Ohio, assignor to Robinson-Houchin Optical Company, Columbus, Ohio, a corporation of Ohio
Application May 28, 1937, Serial No. 145,354
3 Claims. (Cl. 49—82.1)



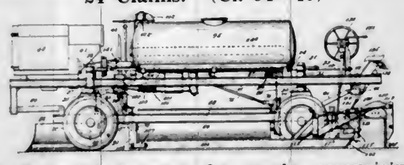
2. The method of making a lens of the type described which comprises placing two individual lenses together which are of such a shape that they form a space therebetween and which contact with each other at their edges only, placing the cooperating lenses in a furnace heating chamber, bringing the temperature of said furnace to a predetermined degree to heat the lenses to a predetermined degree below their melting point, evacuating the heating chamber so as to withdraw fluid from the space between the two lenses while they are maintained at the predetermined temperature, then subjecting the edges only of the lenses to a flash of heat to cause the edges to fuse together without causing distortion of the body portion of the lenses, and then gradually lowering the temperature of the heating chamber in order to anneal the composite lens.

2,169,405
PHOTOELECTRIC SYSTEM
John R. Cooney, Waldoboro, Maine
Application June 21, 1938, Serial No. 215,068
8 Claims. (Cl. 250—41.5)



1. In combination, a source of light of variable intensity, a photo-cell energized by light from said source, a source of biasing current for said cell, a voltage source variable in intensity in accordance with variations of said light source, and a circuit including said cell, said voltage source and said biasing current source all connected in serial circuit relation, said voltage source having proper phase and amplitude to neutralize the variations in photo-electric current due to variations in said light source.

2,169,406
RETREAD PAVER
William A. Cost and Joseph W. Hartley, Indianapolis, Ind., assignors, by mesne assignments, to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application November 9, 1934, Serial No. 752,229
24 Claims. (Cl. 94—40)

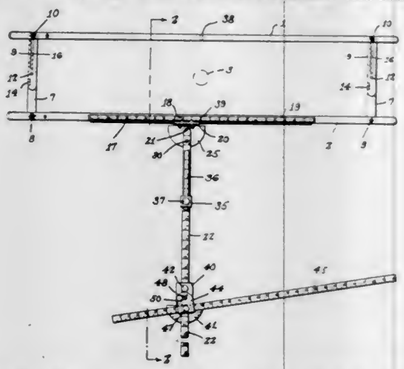


1. A re-tread paver for roads, comprising a wheel-supported frame, a pug-mill mixer carried by said frame, said mixer including a substantially horizontal longitudinal trough open at its forward end and one or more longitudinally extending rotatable shafts having helically inclined blades for moving material in said trough rearwardly, each of said blades having a radial length approximating the distance between its associated shaft and the bottom of said trough, and an apron sloping forwardly and downwardly at the forward end of said trough in position to engage aggregate on the road surface and elevate it into said trough as the paver moves along a road, at least one of said blades being disposed over said apron in position to engage aggregate thereon.

2,169,407
GOLF TRAINING APPARATUS
Robert Crowley, North Quincy, Mass.
Application June 4, 1938, Serial No. 211,745
2 Claims. (Cl. 273—35)

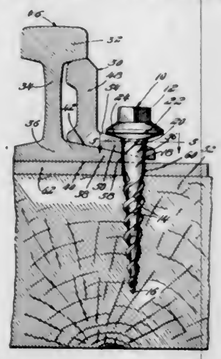
1. A golf training and practicing apparatus of the kind described, comprising parallel guide rods

supported above the ground and spaced to receive a golf ball therebetween, in combination with adjustable gauge members to facilitate the stance



of the player relatively with said parallel guide rods, said rods being protected with a yielding tubular covering throughout the length of said guide rods.

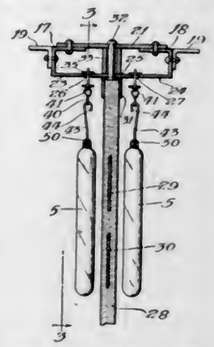
2,169,408
DRIVE SPIKE
William De Vellier, Newark, N. J.
Application July 28, 1936, Serial No. 93,019
1 Claim. (Cl. 85—44)



A drive screw for attaching a metal apertured member to a wooden member, comprising a head having an annular flange and a shank tapering to a point and having a wood screw threaded lower portion extending upwardly a substantial distance from said point and supplemental metal penetrating and engaging threaded means adapted to cut into the wall of said aperture above and spaced from said wood screw threaded portion, the threads in both of said threaded portions being inclined in the same direction, and substantially parallel and of high pitch.

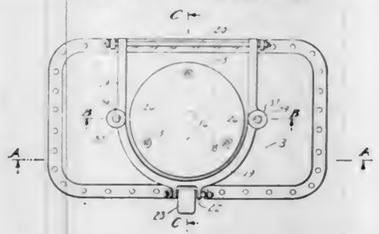
2,169,409
CHANGEABLE SIGN
Le Roy H. Dey, Chicago, Ill.
Application May 9, 1938, Serial No. 206,891
7 Claims. (Cl. 40—130)

1. In a changeable sign, a flexible conveyor means for driving said conveyor, links suspended from said conveyor at points spaced lengthwise of said conveyor, said links being swingable with respect to said conveyor, and a sign character comprising a gaseous conduction tube having spaced hangers fixed thereon, said hangers and



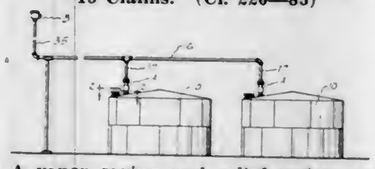
links having cooperating portions for suspending the hangers from the links.

2,169,410
BREATHER VALVE AND HATCH FOR TANKS
Phillips B. Drane, Tulsa, Okla.
Application October 7, 1935, Serial No. 43,838
4 Claims. (Cl. 220—44)



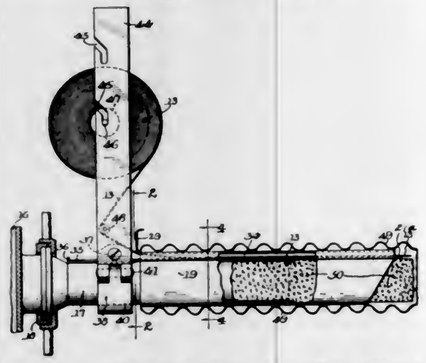
2. The combination with a pressure and vacuum relief valve cover plate cooperating with a hatch opening, a hood carried by said cover on the upper side of the cover, of means for mounting said cover, said means comprising a U-shaped member above the cover, said U-shaped member having its arms at opposite sides of the hood, loosely mounted spring actuated connecting members connecting the cover to the arms of the U-shaped member, the arms of the U-shaped member being hingedly mounted to one side of the hatch and latching means carried by the U-shaped member and cooperating with latching means carried by the hatch.

2,169,411
VAPOR SAVING AND RELIEF SYSTEM
Phillips Brooks Drane, Tulsa, Okla.
Application January 15, 1938, Serial No. 185,243
15 Claims. (Cl. 220—85)



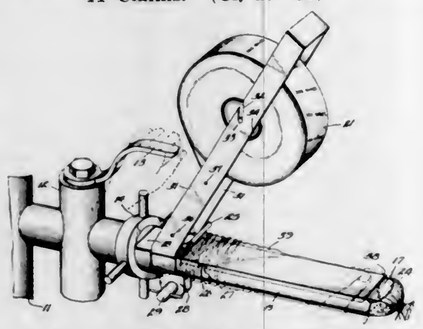
1. A vapor saving and relief system adapted to be applied to a battery of liquid storage tanks including, an equalizing line connected with the tanks to permit equalization of the vapor pressure in the tanks, means in the line for relieving either excessive pressure or vacuum therein, and means separate from the relief means at each tank for controlling the flow of vapor from the tank to the line.

2,169,412
APPARATUS FOR MARKING FOOD PRODUCTS
Alpheus J. Freeman, Chicago, Ill., assignor to Freeman, Incorporated, Chicago, Ill., a corporation of Illinois
Application May 27, 1936, Serial No. 82,041
15 Claims. (Cl. 17—41)



1. The combination with a stuffer having a filler horn, of an auxiliary casing supporting member operatively associated with said horn, said member being provided with a guideway for the passage of indicating tape for the purposes described.

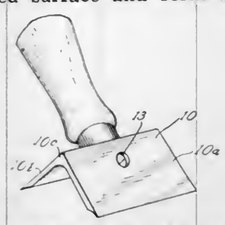
2,169,413
APPARATUS FOR APPLYING IDENTIFYING MEANS
Alpheus J. Freeman, Chicago, Ill., assignor to Freeman, Incorporated, Chicago, Ill., a corporation of Illinois
Application November 12, 1937, Serial No. 174,150
11 Claims. (Cl. 17—41)



1. A device of the character set forth, comprising stuffing means for injecting material into casings, having a covered, unitary passageway formed therewith for the passage of identifying means into the casings.

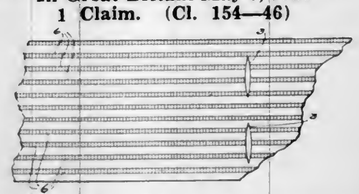
2,169,414
UTILITY SCRAPER AND TOOL
Fred M. Giddings, Galesburg, Ill.
Application May 2, 1938, Serial No. 205,410
4 Claims. (Cl. 30—172)

1. In a multi-blade scraper, an elongated body of substantially right angled cross section and presenting a pair of spaced apart longitudinal edges, the longitudinal edges of the two sections of said scraper body being ground to present a concave beveled surface and form a relatively



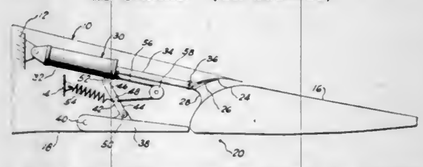
sharp scraping edge, each body portion being apertured, and a bolt threadingly mountable in either of said body section apertures, and a centrally passaged cylindrical handle on said bolt, said handle and bolt being mountable with respect to either of said apertures.

2,169,415
TOILET SHEET
Willi Giese, Nijmegen, Netherlands
Application May 25, 1937, Serial No. 144,746
In Great Britain May 7, 1937
1 Claim. (Cl. 154—46)



A toilet sheet consisting of a continuous web of thin creped tissue paper forming one layer of the sheet and a plurality of continuous webs of cellulose wadding forming other superimposed layers of the sheet, one of which layers of wadding contacts with the first layer throughout, said sheet constituting a wide ribbon, said sheet having the layers connected by a series of uniformly spaced lines of crimping extending longitudinally from one end of the sheet to the other, said lines of crimping being relatively close when compared to the width of the sheet, said sheet having at spaced intervals of its length a plurality of transverse slots each extending through and severing several of the lines of crimping and through the spaces between the severed lines.

2,169,416
SLOTTED DEFLECTOR FLAP
Roger W. Griswold, 2nd, Old Lyme, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application June 12, 1936, Serial No. 84,908
15 Claims. (Cl. 244—40)



1. In a wing lift increasing device, in combination with a trailing edge flap mounted to provide an upwardly tapering air directing slot be-

tween said flap and the fixed portion of the wing, a door pivotally secured to the fixed wing portion to extend across the bottom of said slot to control the opening thereof, and means for tilting said trailing edge flap to vary the lift of the wing, and means to move said door to fully open said slot during the first part of the movement of said trailing edge flap from its neutral position.

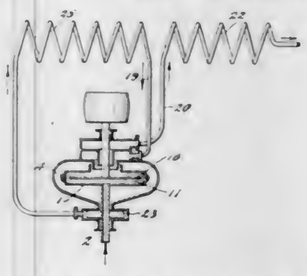
2,169,417
EQUIPMENT FOR PHOTOGRAPHIC DEVELOPMENT
Willard B. Hill, Hampton, and William B. Melvin, Newport News, Va.
Application February 23, 1939, Serial No. 258,052
2 Claims. (Cl. 95—90.5)



1. A development equipment for use with a roll of film comprising a tank having an open top, a cap for closing said top, spaced bracket plates extending from the inner face of the cap, a member slidably disposed through the cap, a brake shoe carried by the inner end of the member, means for constantly urging the brake shoe in a direction toward the outer end of the bracket plates, said bracket plates being spaced apart a distance to receive therebetween a roll of exposed film, a pintle insertible through the outer end portion of the bracket plates and through the applied film roll for rotatably supporting the film roll, the brake shoe when the film roll is applied holding the film roll against rotation, and a weighted member for attachment to the end of the film roll for carrying the film down into the tank when the member is moved in a direction to release the brake shoe from the film roll.

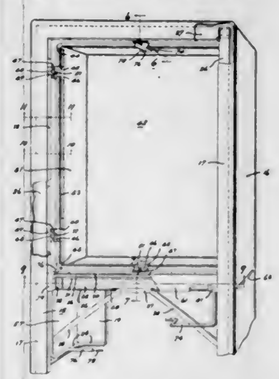
2,169,418
BOILER FEEDING PUMP AND METHOD OF OPERATING THE SAME
Rudolf Hingst, Berlin-Tegel, Germany, assignor to Rheinmetall-Borsig Aktiengesellschaft, Berlin-Tegel, Germany, a corporation
Application July 15, 1936, Serial No. 90,769
In Germany July 17, 1935
13 Claims. (Cl. 122—411)

13. A feed water system for boilers or the like, comprising, in combination, a housing adapted to communicate with the steam space of the boiler, a shaft within said housing, a closed hollow impeller structure carried by said shaft and rotatably mounted within said housing comprising a plurality of compartments adapted to communicate with a source of feed water supply, said impeller structure having a plurality of restricted outlet jets at its periphery for discharging the water into the housing at a pressure greater than the steam pressure therein, and said compartments having relatively unrestricted intercommunication, and means for returning superfluous feed water from the boiler to at least one of said



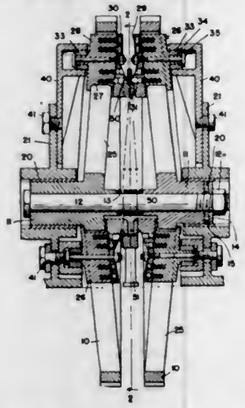
impeller compartments for controlling the feeding operation of the impeller responsive to the additional pressure created by the superfluous feed water within the impeller structure at the outlet jets.

2,169,419
REFRIGERATING APPARATUS
George F. Hofferberth and Wilford H. Teeter, Dayton, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application April 24, 1937, Serial No. 138,800
10 Claims. (Cl. 62—116)



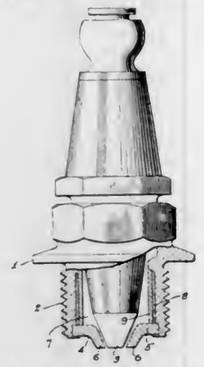
2. A refrigerating apparatus comprising in combination, a cabinet having a liner forming a plurality of side walls and a back wall of a food storage compartment therein, a door opening in the food storage compartment, a cooling element in said food compartment, means located outside said compartment for circulating a cooling medium through said element, a cooling medium conveying conduit connecting said element to said circulating means, said cooling element, said circulating means and said conduit forming a closed system removably associated with said cabinet, and said liner having a part thereof adjacent its edge at said door opening directed inwardly of one of said compartment side walls toward an opposed side wall thereof and having a continuation of said part extending over a portion of said one compartment side wall and directed toward said compartment back wall to form a groove for removably receiving said conduit.

2,169,420
WIRE-BENDING MACHINE
George Jacobs, Detroit, Mich., assignor of one-half to Emil Goetz, Detroit, Mich.
Application November 27, 1936, Serial No. 112,921
6 Claims. (Cl. 140—91)



1. A wire bending machine comprising a pair of dished wheels carried upon a shaft and spaced from each other, with their convex sides outward, said wheels being provided with an equal number of radial slots in each, the slots of one wheel being staggered with respect to the slots of the other, slide members carried in said slots and provided with wire engaging means, means for rotating said wheels, and means for causing radial movement of said slide members in said slots during said rotation.

2,169,421
SPARK PLUG
Armen A. Kasarjian, Jackson Heights, Long Island, N. Y., assignor to Mosler Ignition Corporation, New York, N. Y., a corporation of New York
Application October 23, 1936, Serial No. 107,117
5 Claims. (Cl. 123—169)



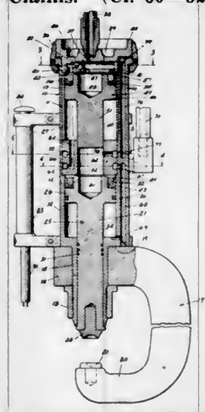
1. A spark plug comprising a shell, a ground electrode carried by the shell, a pair of concentric sleeves positioned within the plug chamber in contact with one another and with the outer sleeve in good heat conductive relation with the shell, said outer sleeve being of higher heat conductivity than the inner sleeve or the shell and the outer sleeve being in good heat conductive relation with the electrode, both ends of the outer sleeve being shielded from direct contact with the operating charge.

2,169,422
PHOTOGRAPHIC CAMERA
John N. Kelley, New York, N. Y., assignor to Williams-Kelley Corporation, New York, N. Y., a corporation of New York
Application October 2, 1936, Serial No. 103,684
7 Claims. (Cl. 95—2)



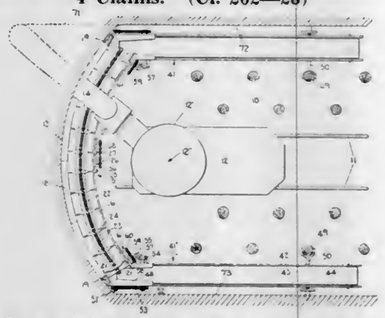
1. A multi-color camera including a casing having an adjustable lens carrier, a support for a sensitized surface at one side of the optical axis of the lens, a semi-transparent mirror intersecting said axis, a flexible opaque baffle mounted on a roller adjacent to the edge of said surface nearest to said lens, and means for unrolling and extending said baffle between said mirror and said lens carrier and toward said mirror in a plane at an acute angle to the optical axis of the lens and in a position out of the path of the image forming rays to said mirror.

2,169,423
RIVETER
George H. Kessler and William Meier, Cleveland, Ohio, assignors to The Midland Steel Products Company, Cleveland, Ohio, a corporation of Ohio
Application August 4, 1936, Serial No. 94,212
7 Claims. (Cl. 60—52)



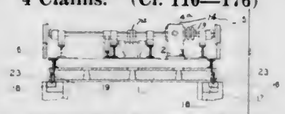
6. In a fluid cylinder, a member therein dividing the cylinder into upper and lower compartments having a ported reduced axial bore, a first piston in said lower compartment forming a retracting chamber therebeneath, a second piston in the upper compartment having an intensifying ram of smaller diameter than either of said pistons operating in said reduced bore, a retracting chamber between the second piston and said dividing member, a protraction chamber above said second piston, and a conduit between said protracting chamber and said ported reduced bore to supply the latter with fluid until cut off by protraction of said intensifying ram.

2,169,424
MINING SYSTEM
Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application March 6, 1937, Serial No. 129,446
4 Claims. (Cl. 262—28)



1. In a mining system, the combination with a machine adapted to cut a kerf on an arcuate face in a mine room, of an arcuate conveyor positioned adjacent said face to receive material cut out by said machine, rearwardly extending conveyors adapted to convey material discharged from the ends of said arcuate conveyor, and automatic means for operating said arcuate conveyor and either one of said rearwardly extending conveyors dependent upon the direction of travel of the conveying means of said arcuate conveyor.

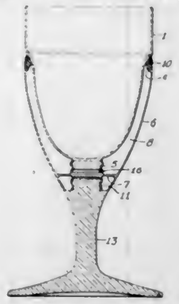
2,169,425
RECUPERATIVE SOAKING PIT FURNACE
William A. Morton, Mount Lebanon, and Howard F. Spencer, Pittsburgh, Pa., assignors to Amco, Incorporated, Pittsburgh, Pa., a corporation of Pennsylvania
Application July 22, 1935, Serial No. 32,534, which is a division of application Serial No. 733,812, July 5, 1934. Divided and this application October 29, 1935, Serial No. 47,254
4 Claims. (Cl. 110—176)



1. In an industrial heating furnace, a combustion chamber having an opening at the top thereof, a cover for said opening, a granular refractory seal for said cover around said opening, means on said cover extending into said seal when the cover is in place over the furnace opening, means for raising the cover to partially break the seal, and means for traversing the cover while in its raised position while maintaining a partial seal with the furnace.

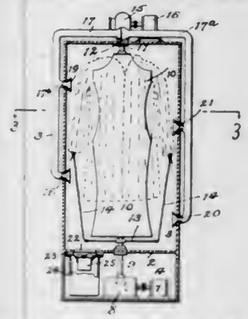
2,169,426
COMPOSITE TUMBLER
William A. Morton, Mount Lebanon, Pa., assignor to Amco, Incorporated, Pittsburgh, Pa., a corporation of Pennsylvania
Application October 14, 1936, Serial No. 105,526
3 Claims. (Cl. 65—66)

1. A composite tumbler comprising a body of glass having a threaded portion, a metallic receptacle having engagement with the threaded portion thereof and having a wall coextensive with a substantial portion of the tumbler out of contact therewith, and resilient material interposed between the lip of the receptacle wall and the



outer wall of the tumbler to seal the space between the receptacle and tumbler when they are joined at their threaded portions.

2,169,427
FUR GLAZING MACHINE
Antonio Mosca, Troy, N. Y.
Application April 25, 1938, Serial No. 204,247
3 Claims. (Cl. 15—14)



2. In a fur glazing apparatus, the combination of a casing, a partition in the casing to provide upper and lower compartments, a motor in the lower compartment, a vertical shaft extending from the motor and projecting through an aperture in the partition, a coat form in the upper compartment mounted on the end of the vertical shaft, a series of pipes extending into the upper compartment, one of said pipes terminating mid-way the length of the upper compartment and provided with a nozzle to direct air toward the form, said pipe having a second nozzle between the top of the upper compartment and the lower nozzle on said pipe, a second one of said series of pipes having a nozzle below the horizontal plane of the lower nozzle on the first mentioned pipe, the second mentioned pipe having a nozzle mid-way between the top of the upper compartment and the nozzle at the end of said second mentioned pipe, the various nozzles being out of horizontal alignment, and suction means associated with an aperture in said partition to exhaust the air and foreign matter from the casing.

2,169,428
FLAT METAL-COVERED ROOF
Alois W. Pattiani, Oakland, Calif.
Application March 20, 1939, Serial No. 262,884
15 Claims. (Cl. 108—13)

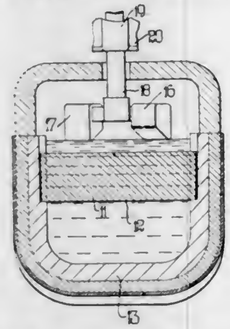
12. In a flat surface sheet metal covered roof

of the character described, the adjacent sheets of metal joined by overlapping margins, foundation boards with flush outer surfaces covered by



said sheet metal, and means forcing the overlapping margins of the metal into tight marginal contact against the wall of a recess in the edge of the boards.

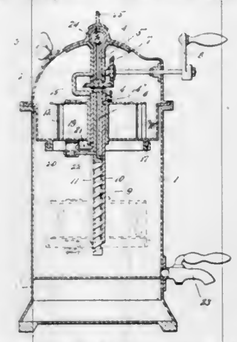
2,169,429
SKIMMING DEVICE FOR GLASS TANKS OR FURNACES
Thomas Finney Pearson, Pontefract, England, assignor to Crown Cork & Seal Company, Inc., New York, N. Y., a corporation of New York
Application April 29, 1937, Serial No. 139,806
In Great Britain May 2, 1936
7 Claims. (Cl. 49—56)



1. Apparatus for conditioning glass in a forehearth, comprising a refractory bridge spaced rearwardly from the front wall of the forehearth and extending transversely thereof with its base above the forehearth floor to form a channel therebetween and with its upper end below the normal level of glass within the forehearth, a skimmer and means for angularly displacing said skimmer along an arcuate path which crosses said bridge, said means serving to move the skimmer through said glass between said refractory bridge and the front wall of said forehearth and out of contact with said glass in rear of said bridge to skim the surface of said glass in front of said bridge and to permit drainage of glass from said skimmer in rear thereof.

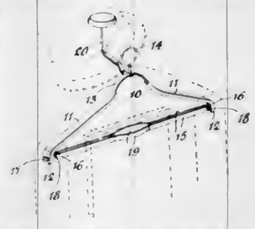
2,169,430
DEVICE FOR PRODUCING VEGETABLE INFUSION
Franz Reinholz, Frankfort-on-the-Main, Germany
Application January 12, 1939, Serial No. 250,541
In Germany April 9, 1937
12 Claims. (Cl. 53—3)

1. A device for producing vegetable extracts by lixiviation by means of heated liquids, comprising a chamber for the lixiviating liquid, a receptacle for the vegetable substance to be infused, provided with an unbroken bottom surface and at least two perforated side walls, said bottom surface when in position above the lixiviating liquid filling an opening in a partition wall located in the upper part of the chamber for the lixiviating liquid, and driving means for lowering the said receptacle into the lixiviating liquid



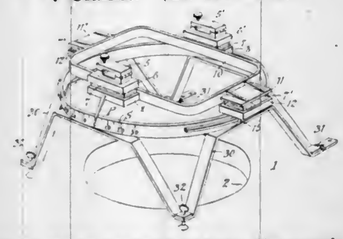
along a guide spindle extending into the said liquid.

2,169,431
GARMENT HANGER
Willard R. Richards, Buffalo, N. Y.
Application August 22, 1938, Serial No. 226,116
5 Claims. (Cl. 223—91)



1. A garment hanger, comprising a body shaped to receive a coat and including normally-expanded diverging arms and an intermediate resilient tie member disposed in a common plane and capable of contracting to vary the distance between their terminal ends, and flexible trouser-supporting means disposed between and attached at their ends to the companion ends of said arms and adapted to spread and contract laterally in response to the contracting and expanding movements of said arms.

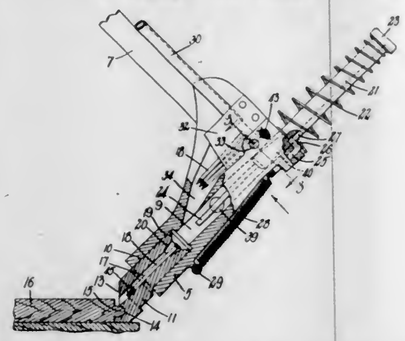
2,169,432
AERIAL CAMERA MOUNT
Cecil S. Robinson, Ithaca, N. Y.
Application July 7, 1938, Serial No. 218,034
7 Claims. (Cl. 248—179)



3. In an aerial camera mount, the combination of a pair of elastic pads adapted to be attached to the camera, a movable frame attached to said pads, a second pair of elastic pads attached to said frame transversely to the axis of the first

pair of pads, whereby the camera may be tilted with relatively slight distortion of the elastic pads.

2,169,433
NAIL-DRIVING DEVICE
Thomas A. Roy, Brooklyn, N. Y.
Application November 16, 1937, Serial No. 174,814
9 Claims. (Cl. 1—46)



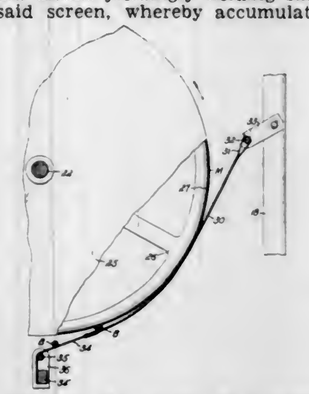
1. A nail driving device of the character described comprising, in combination, a driver head, a driver for a nail operable therein, a work-engaging member yieldingly mounted in said head beneath said driver, means to feed nails to the head, means to release said nails one by one from said feeding means to drop into said work-engaging member, and a spherical member yieldingly intercepting a nail within the work-engaging member and holding said nail in driving position out of contact with the work until contacted by the driver.

2,169,434
PROCESS OF DEQUATERNATING QUATERNARY AMMONIUM DYESTUFFS
George Schwarz, Antwerp, Belgium, assignor to Gevaert Photo-Producten N. V., Antwerp, Belgium
No Drawing. Application May 29, 1936, Serial No. 82,625. In Austria June 6, 1935
5 Claims. (Cl. 260—240)

1. The process of converting a heterocyclic polymethine dyestuff selected from the group consisting of the cyanine and styryl alkyl quaternary salts into a ternary amine compound which comprises heating the starting material in a high boiling tertiary organic nitrogen base so intensely as to split off the ester from the quaternary nitrogen atom.

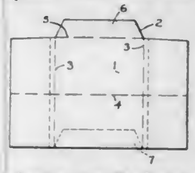
2,169,435
AIR CONDITIONING APPARATUS
Jerry H. Simpson, Winston-Salem, N. C., assignor to The Bahnson Company, Winston-Salem, N. C., a corporation of North Carolina
Application October 30, 1937, Serial No. 171,972
8 Claims. (Cl. 183—52)

7. In apparatus for removing lint, dust and the like from air, a shaft having axially spaced screen supports, a screen coaxial with said shaft and connected between the peripheries of said screen supports, one of said supports being apertured to permit air flow therethrough, means preventing air from entering axially of the screen at the other support, means for rotating the shaft and the screen supported thereon, a pressure band extending along and contacting the screen, and means yieldingly holding said band against said screen, whereby accumulations of



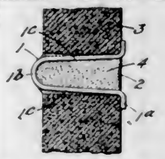
felted material on the screen will be rolled into strands when said screen is rotated.

2,169,436
LETTER SHEET
Willard E. Swift, Worcester, Mass., assignor to United States Envelope Company, Springfield, Mass., a corporation of Maine
Application July 18, 1935, Serial No. 32,065
3 Claims. (Cl. 229—92.7)



1. A mailing closure made from a rectangular sheet providing a flap projecting from one edge thereof, with said flap and the opposite side of the sheet provided with corresponding areas of dry-sealing adhesive, said sheet being foldable in a series of steps to form a closure in which substantially equal areas of the folded sheet are disposed in overlying relation, with said adhesive areas disposed on opposite sides of a line along which said flap is foldable to bring said adhesive areas into engagement to seal the closure.

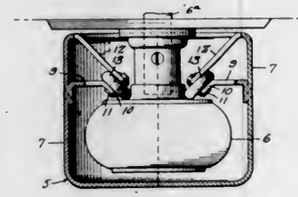
2,169,437
PLUGGING OF WALLS OR THE LIKE
Charles Harold Taylor, Perivale, Greenford, England
Application January 18, 1938, Serial No. 185,583
In Great Britain January 23, 1937
2 Claims. (Cl. 72—105)



1. The combination with a wall plug or plugging mass adapted to provide an anchor for a screw or the like applied to the plug from the outer side of the wall, of a member for temporarily retaining the plug or plugging mass in a hole extending inwardly through a wall portion,

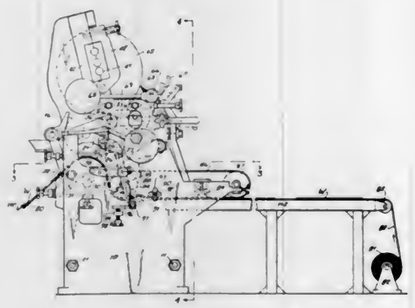
said member comprising a part adapted to extend transversely of the hole and the plug therein to support the plug against inward longitudinal movement, at least one portion formed to engage the wall at or near the mouth of the hole to support the member and plug against inward movement in the hole, and at least one longitudinal portion joining said transverse and wall engaging portions.

2,169,438
PROTECTIVE DEVICE
William G. Sherman, Chicago, Ill.
Application November 28, 1938, Serial No. 242,859
2 Claims. (Cl. 70—211)



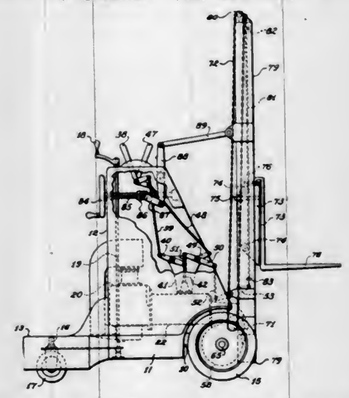
1. A device of the character described, comprising, a casing provided with a pair of hinged sections adapted to embrace a latch bolt operating member, arms mounted in each of said sections and extending toward said member, rollers mounted on said arms for engagement with said member whereby to effect rotation of said sections relative to said member to preclude operation of said member when said sections are secured together about and entirely enclose said member.

2,169,439
SURFACE DECORATING METHOD AND APPARATUS
Guido von Webern, Dayton, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich., a corporation of Michigan
Original application April 23, 1935, Serial No. 17,825. Divided and this application November 11, 1936, Serial No. 110,361
5 Claims. (Cl. 101—37)



1. A surface decorating machine including an impression roll, a substantially continuous flexible web, means to progress the web to bring flexible articles placed thereon into contact with the transfer roll, and means to smooth out the articles before they reach the impression roll, said last-named means including a flexible belt having one stretch thereof in intimate contact with the first-named web and the articles thereon.

2,169,440
INDUSTRIAL TRUCK
Samuel Weiss, Portland, Oreg., assignor to Vaughan Motor Co., Inc., Portland, Oreg., a corporation of Oregon
Application June 17, 1938, Serial No. 214,255
9 Claims. (Cl. 214—75)

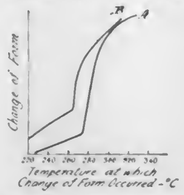


1. In an end lift truck of the character described, a motor driven shaft, a pair of clutch shafts located near to and parallel with said motor driven shaft, gears on said power shaft, loose gears carried by the clutch shafts and driven by said gears on said power shaft, clutch mechanisms for engaging said loose gears selectively with the clutch shafts and thus operatively connecting the clutch shafts to the power shaft, each of said clutch mechanisms comprising axially slidable disks carried by said loose gears, cooperating clutch disks longitudinally slidable on said clutch shafts and interposed between the first mentioned disks, members longitudinally slidable on each clutch shaft adapted, by imposing pressure, to cause the engagement of said cooperating disks with the disks carried by said loose gears, two-arm, Y-shaped rockable levers pivoted on said clutch shafts, and a control collar on each clutch shaft slidable over said levers for operating the same, one of said clutch shafts connected to the driving wheels of said truck, the other of said clutch shafts connected to the end lift of said truck, manually operable means for positioning the control collar on each clutch shaft, whereby selectively to connect the clutch shafts with said motor driven shaft and thus control travel of said truck and movement of said lift.

2,169,441
WORKING ZINC ALLOYS
Herbert Winter, Buchschlag in Hessia, and Wolfgang Fahrenhorst and Erich Schmid, Frankfort-on-the-Main, Germany, assignors to The New Jersey Zinc Company, New York, N. Y., a corporation of New Jersey
Application September 23, 1937, Serial No. 165,322
In Germany June 2, 1937
4 Claims. (Cl. 29—18)

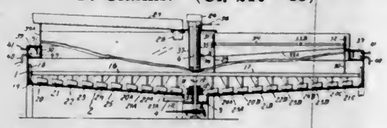
2. In the manufacture of zinc alloy objects, the improvement which comprises working at a

temperature of about 340° C. an aluminum-bear-



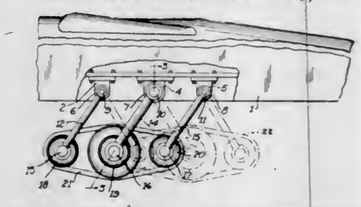
ing zinc base alloy containing from 10 to 20% aluminum.

2,169,442
THICKENER
Charles Erb Wuensch, Joplin, Mo.
Application May 28, 1936, Serial No. 82,202
12 Claims. (Cl. 210—43)



1. A thickener which comprises an upright cylindrical tank adapted to contain a pool of pulp, a discharge conduit communicating with the lower central portion of the tank, means for introducing pulp into said tank, a rotatable raking mechanism extending outward from the lower center portion of the tank to a point near the lower periphery of the tank, said raking means being adapted to move solids settled out of the pulp to the discharge conduit, a filter having substantially vertical surfaces disposed adjacent the wall of the tank below the level of the pulp pool and above the raking mechanism, means for discharging filtrate from said filter and automatic means for blowing cake off said filter at intervals determined by the rate of flow of filtrate through said filter.

2,169,443
AIRPLANE UNDERCARRIAGE
James P. Burke, Knoxville, Tenn.
Application December 13, 1937, Serial No. 179,384
16 Claims. (Cl. 244—100)

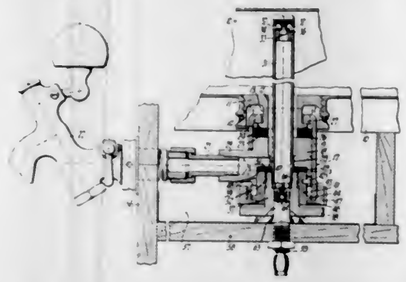


1. In a landing gear of the type described, a support, a series of independently sprung wheels mounted on said support, and a pneumatic tire common to said wheels.

2,169,444
MANUFACTURE OF WIRE
Åke Dahlberg, Fagersta, Sweden, assignor to National Standard Company, Niles, Mich., a corporation of Michigan
No Drawing. Application September 22, 1937, Serial No. 165,075
5 Claims. (Cl. 205—21)

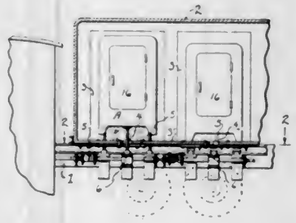
1. That method of making wire which comprises passing the wire to be drawn through a substantially saturated solution of a crystallizable material, evaporating off the solvent to leave crystals of said material on the surface of the wire, then passing the crystal-covered wire through a body of powdered lubricant such as soap and then drawing the wire through a die.

2,169,445
DISPENSING APPARATUS
Herbert P. Folker, Oakland, Calif., assignor to National Safety Appliance Co. Ltd., San Francisco, Calif., a corporation of California
Application September 27, 1937, Serial No. 165,921
11 Claims. (Cl. 225—2)



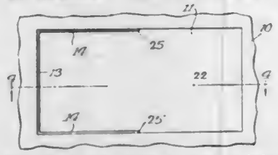
1. In dispensing apparatus for use with a liquid container, the container being of the type provided with a coupler having a discharge opening therein, a fitting adapted to be detachably connected to and mounted on said coupler, a liquid discharge pipe communicating with the fitting, the fitting being provided with a passage aligned with said opening, a pipe adapted to be removably disposed within said passage with one end portion of the pipe extending through said opening into the container, the outer end of the pipe being adapted for connection with a source of gas under pressure, and a check valve carried by the inner end of said pipe, said check valve closing against pressure within the container, and being opened by gas pressure applied to said pipe.

2,169,446
TRANSPORTATION MEANS FOR REFRIGERATING UNIT CONTAINERS
John C. Hester, Milwaukee, Wis., assignor of one-half to Godfrey Oestreich, Milwaukee, Wis.
Application October 24, 1938, Serial No. 236,807
2 Claims. (Cl. 254—100)



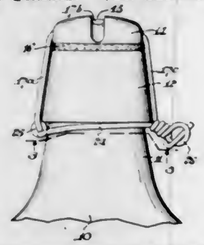
2. A housing carrying a group of unit containers, and common lifting jack means for selectively moving any one of the group of containers or the housing bodily with its load of said containers.

2,169,447
INSTRUMENT DIAL
Arnold P. Hultgren, Chicago, Ill., assignor to Sears, Roebuck and Co., Chicago, Ill., a corporation of New York
Application April 23, 1937, Serial No. 138,561
17 Claims. (Cl. 116—124.1)



1. A radio dial mounting comprising a panel having a dial opening and a radio dial edge-clamped in said opening with the full area of the outer surface of said dial exposed.

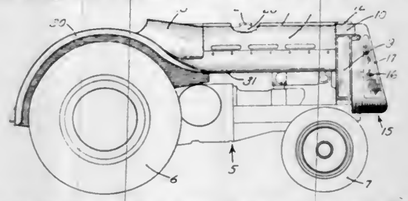
2,169,448
CLOSURE FASTENER FOR CONTAINERS
Edward P. Linch, Philadelphia, Pa.
Application January 19, 1938, Serial No. 185,663
6 Claims. (Cl. 215—94)



1. A wire loop member of a single piece of wire for fastening container closures comprising a bendable leg having a free end and being of a length sufficient to extend over the top and down the sides of the neck of the container, and a closed loop larger in size than the neck of the container, said loop being contractible by twisting portions thereof to engage the neck of the container, said loop being formed as a continuation of the bendable leg and joined to said leg by an angular bend, the other end of the wire being formed into a coil around and encircling a portion of said loop on the loop side of the bend, said coil being composed of more than a single turn of wire and having its longitudinal axis in alinement with the loop, said coil being adapted to be horizontally disposed along and tangential to the adjacent surface of the neck of the container.

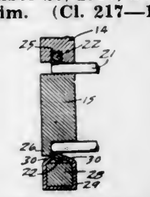
2,169,449
TRACTOR
Elmer McCormick, Waterloo, Iowa, assignor to John Deere Tractor Company, Waterloo, Iowa, a corporation of Iowa
Application July 29, 1937, Serial No. 156,383
2 Claims. (Cl. 180—1)

1. In an orchard tractor having a body and a pair of laterally spaced wheels supporting the rear end thereof, a radiator disposed near the forward end of said body, a filler cap extending above the outside surface of said radiator, a fuel tank disposed to the rear of said radiator and having a filler cap spaced rearwardly and at the same level with said radiator filler cap, a streamline casing for protecting orchard trees from injury by said tractor, said casing comprising a longitudinally extending hood mounted on said body flush with said radiator, a raised portion on said hood extending between and flush with said radiator filler cap and said fuel tank filler cap, and fenders for said wheels, said fenders being disposed circumjacent to said wheels and extending horizontally forward beyond the wheels



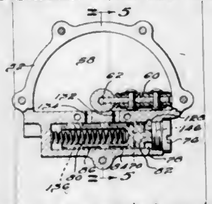
and adjacent to said hood, the outer edges of said horizontal forward extensions converging inwardly and merging with the sides of said hood, said fenders and hood providing smooth, continuous surfaces and edges for guiding low hanging branches out of the way without injury thereto.

2,169,450
BOTTLE CRATE
William A. McCutchen, Birmingham, Ala.
Application December 20, 1937, Serial No. 180,674
7 Claim. (Cl. 217—19)



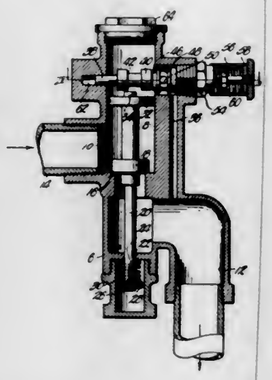
1. A crate comprising marginal side and end walls and bottom metal-sheathed runners, means to assemble said walls and runners, each runner comprising a filler strip and a metallic sheathing bent about the strip and upturned to form a shoulder extending along the top of the runner, and grid work for supporting bottles in the crate comprising a marginal frame adapted to be mounted in engagement with said shoulder in the joints on the top of the runners.

2,169,451
FLUID MOTOR
Humphrey F. Parker, Detroit, Mich.
Application December 3, 1936, Serial No. 114,010
23 Claims. (Cl. 121—142)



1. Fluid pressure operated motor mechanism comprising, in combination, a member movable under the influence of differential pressure; means including a fluid circuit and a reversing valve mechanism for controlling the application of said differential pressure to said member; and stopping mechanism for said motor including fluid pressure operated valve means controlled in accordance with the position of said member for controlling said fluid circuit.

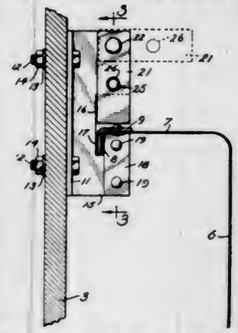
2,169,452
VALVE
Arthur P. Ricard, Slater, Mo.
Application October 3, 1938, Serial No. 232,940
4 Claims. (Cl. 137—93)



1. A valve of the character described comprising a body provided with a chamber therein and an inlet port and an outlet port, each in communication with the chamber at spaced apart portions thereof; an internal, annular shoulder formed on the body within the chamber between the inlet port and the outlet port; a stem reciprocably mounted within said chamber; a head on the stem intermediate the ends thereof, adapted to be seated on the shoulder when the stem is at one end of its path of travel; a spring to yieldably hold the head against the shoulder to prevent flow from the inlet port to the outlet port; a plate on the stem between said inlet port and one end of the chamber; a by-pass duct formed in the body, interconnecting that portion of said chamber between the said plate and the proximal end thereof and the said outlet port; a seat formed in the duct; a member normally in engagement with the seat to stop the flow through said by-pass duct; manually operable structure for disengaging the member from the seat to permit flow through said by-pass duct; and means for returning the member to its normal position and yieldably maintaining the same in such position, said reciprocably mounted stem and the said seat engaging member having interengaging parts for locking them together when the stem is at the other end of its path of travel and the member is disengaged from the said seat.

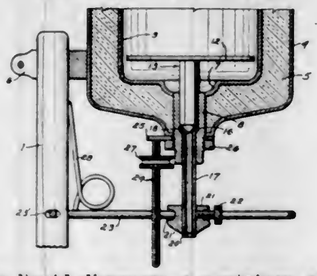
2,169,453
COAL CHUTE CARRIER
Rufus Schenbeck, Toledo, Ohio
Application June 19, 1937, Serial No. 149,143
2 Claims. (Cl. 224—29)

2. A means of the type specified comprising a plurality of devices rigidly mounted in spaced apart relation to a side wall of a vehicle body and each presenting a vertically disposed fin equipped between its ends with a recess having a large mouth portion and a downwardly extending relatively narrow inner end portion, said recess adapted to receive the inwardly projecting outer end portion of the flange of a channeled chute intended to be received in said downwardly extending portion of said recess, and a manually operable device pivotally mounted on said fin above said recess and selectively movable and securable into a position to choke the mouth of said



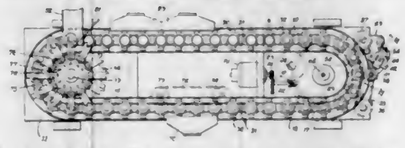
recess and into position to leave the same unobstructed for the purposes set forth.

2,169,454
LIQUID DISPENSING APPARATUS
Thomas L. Titus, Denver, Colo., assignor to The Wyott Manufacturing Company, Cheyenne, Wyo., a corporation of Wyoming
Application December 28, 1938, Serial No. 248,093
12 Claims. (Cl. 221—101)



1. In a liquid dispenser, a container, a piston reciprocable therein, means to permit flow of liquid past the piston within the container, a tubular boss having a larger bore in its upper portion leading downward from the bottom of the container and a smaller bore continuing in alignment with the larger bore and leading therefrom to the lower end of the boss, a stem reciprocable in said larger bore affixed at its upper end to said piston and having a valve element at its lower end, a spout freely reciprocable but with a liquid tight fit within said smaller bore and having in its upper end a valve element co-mating with said stem valve element, and passageway for liquid along said stem within said larger bore.

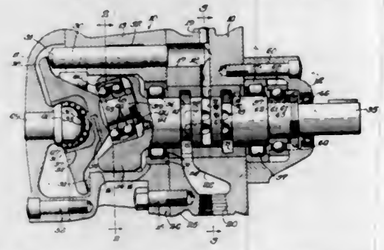
2,169,455
APPARATUS FOR FINISHING GLASSWARE
William L. Wagner, Sr., Glenshaw, Pa.
Application July 2, 1937, Serial No. 151,601
5 Claims. (Cl. 49—50)



4. Apparatus for operating upon articles of

glassware, comprising a movable carrier, means for driving said carrier continuously, means on said carrier for supporting the articles, a scoring tool positioned to be engaged successively by the articles while on the carrier, means operable independently of movement of the carrier, for rotating the articles while in engagement with the scoring tool, means for producing a cracking-off flame at a point where the articles have passed the scoring tool, and means operable independently of movement of the carrier for rotating the articles while passing said flame.

2,169,456
FLUID MOTOR OR PUMP
Gunnar A. Wahlmark, Rockford, Ill.
Application January 25, 1937, Serial No. 122,141
10 Claims. (Cl. 121—119)

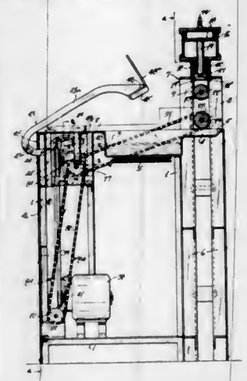


1. A device of the character described comprising a casing, a plurality of cylinders formed in said casing, a piston reciprocable in each of said cylinders, a rotary shaft, means operatively associated with said pistons and said shaft for transforming the movement of the one into the movement of the other, a rotary valve for controlling the supply and exhaust of fluid to and from said cylinders in timed relation with the reciprocation of said pistons, a bushing in which said rotary valve rotates, and a roller bearing at each end of said bushing supporting said valve, said bearings having an internal diameter equal to the internal diameter of said bushing.

7. A hydraulic motor comprising a casing, a plurality of cylinders formed in said casing, a piston reciprocable in each of said cylinders, a drive shaft rotatably mounted in said casing and projecting at one end therefrom, a valve controlling the supply and exhaust of operating fluid to the cylinders, a wobble plate operatively interposed between said pistons and said shaft for converting the reciprocatory motion of the one into rotary motion of the other, said wobble plate having a variable engagement with said shaft and mounted for movement bodily relative to said shaft and as an incident to such movement changing the torque of the motor, and yieldable means urging said wobble plate in a direction to result in maximum torque of the motor at starting, said yieldable means being overcome by the reaction of the pistons on said wobble plate after the motor has started, whereby said wobble plate is urged in the opposite direction.

2,169,457
STARCHING MACHINE
Allen R. Allsup, St. Louis, Mo., assignor to Allsup Manufacturing Company, St. Louis, Mo., a corporation of Missouri
Application March 18, 1938, Serial No. 196,721
16 Claims. (Cl. 91—31)

1. A starching machine including a reservoir which receives a body of starch solution, a wringer disposed in close proximity to said reservoir and in horizontally offset relation with respect thereto so that articles submerged partially in the starch solution in said reservoir may be drawn therefrom by said wringer, said wringer having a pair of rollers arranged one above the



other one of which is movable toward and from the other, and said wringer being so constructed and arranged that articles may be introduced between the rollers of the wringer by moving said articles in the direction of the length of said rollers, and means for rotating a roller of the wringer.

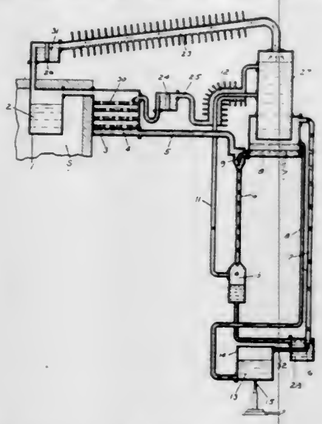
2,169,458
METHOD OF SEALING OFF WATER AND GAS LAYERS
Franklin A. Bent, Albert G. Loomis, and Howard C. Lawton, Berkeley, Calif., assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware
No Drawing. Application November 15, 1937, Serial No. 174,654
7 Claims. (Cl. 166—21)

1. In a process for decreasing the permeability of a porous formation, the steps of introducing thereinto an alcoholate of a metal forming a water-insoluble hydroxide, and forming within said formation a water-insoluble hydroxide by reaction of said alcoholate with water.

2,169,459
REFRIGERATOR SYSTEM
Kemper P. Brace, South Bend, Ind., assignor to International Engineering Corporation, Chicago, Ill., a corporation of Illinois
Application November 5, 1936, Serial No. 109,267
5 Claims. (Cl. 62—119)

1. A refrigeration system having a refrigerant evaporator and an absorber containing an absorbent dissolving refrigerant carried over as vapor from the evaporator, a concentrator connected to return substantially pure refrigerant to the evaporator and reconcentrated absorbent to the absorber, a mercury pump for forcing absorbent from the absorber to the concentrator, said pump comprising upper and lower mercury reservoirs connected by a vertical tube through which drops of mercury descend to cause circulation of the absorbent, and means for raising the mercury from the lower to the upper reservoir comprising a boiler containing a heating liquid and means for heating the liquid therein to vaporize it, a lift tube through which the vapor so formed ascends from below the level of the

mercury in the lower reservoir, and which discharges mercury in the upper reservoir, and



means for condensing said vapor in juxtaposition to the concentrator to heat the absorbent therein.

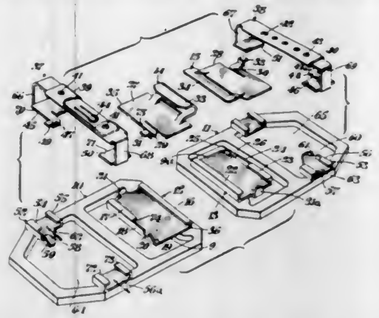
2,169,460
SOCKET HEAD SCREW AND METHOD OF MAKING THE SAME
Lyle E. Broughton, Jackson, Mich.
Application December 21, 1938, Serial No. 246,938
4 Claims. (Cl. 10—10)



1. The method of making socket head screws, which comprises separately forming a cylindrical head and a threaded shank, punching an axially extending bore through said head of non-circular cross-section, forming the upper end of said shank to the size and cross-section of said bore, partially telescoping said upper end into said bore so as to provide a socket in said head above said upper end, and then integrally uniting said shank to said head.

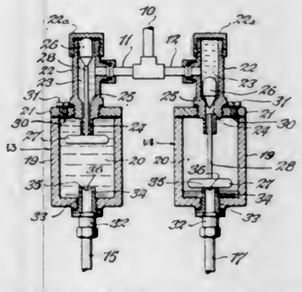
2,169,461
INTERCHANGEABLE ATTACHMENT
Bernard Darvie, Irving Darvie, and Samuel Darvie, New York, N. Y.
Application July 12, 1938, Serial No. 218,738
6 Claims. (Cl. 63—1)

1. In a replaceable attachment, a female socket member and a male fastening attachment adapted for detachable engagement therewith, said socket member containing a base, lateral guides, an elevated wall extending along a lateral edge of the base in unobstructing relation to the medial portion thereof and containing a notch therein, said fastening attachment containing a slide and a spring tongue at a lateral side thereof and in unobstructing relation to the medial portion thereof, the slide being slidably movable upon said base between said guides, the tongue containing an extension thereon adapted to engage said wall during the operative assembling movement of the slide upon the base, whereby the tongue is raised and yieldably maintained in an elevated position until released therefrom when the extension reaches and enters said notch, the said extension overlapping and extending beyond



the adjacent lateral edge of the base and the said wall whereby it could be readily grasped for manual manipulation.

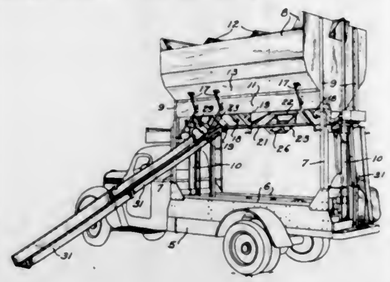
2,169,462
HYDRAULIC BRAKE SYSTEM
Carl T. De Grace, Buffalo, N. Y.
Application March 29, 1938, Serial No. 198,658
7 Claims. (Cl. 303—84)



1. A hydraulic brake system for a motor vehicle including a master cylinder, separate lines leading to the front and rear brakes of said vehicle, a pair of control devices, each having an inlet chamber which communicates with said master cylinder and a reservoir to which one of said lines is connected, passages connecting said inlet chambers and reservoirs, valves in said inlet chambers for cutting off communication between the latter and said reservoirs and floats in said reservoirs which are operative when the latter are filled to hold said valves in positions in which they permit flow of the fluid medium through said passages.

2,169,463
BULK MATERIAL DELIVERY TRUCK
Charles G. Eisenberg, Jr., Wauwatosa, Wis., assignor to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application August 8, 1938, Serial No. 223,621
8 Claims. (Cl. 298—7)

1. In combination, a material confining and transporting body having oppositely inclined intersecting bottom walls each provided with several material delivery openings extending upwardly therealong from the line of intersection, and a discharge chute movable horizontally along the exterior of each of said walls and being interchangeably communicable with the corresponding openings, each of said discharge chutes having its

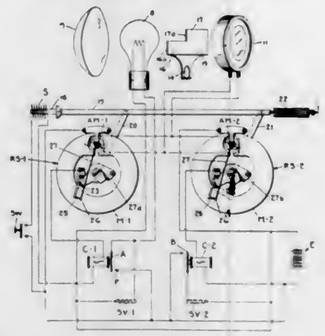


bottom in approximate alinement with the opposite bottom wall of the body.

2,169,464
METHOD OF PRODUCING HIGH TENSILE STRENGTH IRON
James L. Gibney, Buffalo, N. Y.
No Drawing. Application September 18, 1936, Serial No. 101,416
6 Claims. (Cl. 75—12)

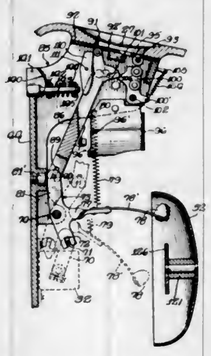
1. The method of producing high tensile strength hypereutectoid iron castings having a carbon content of from .90 to 2.00% which consists in preparing a low temperature molten iron, by remelting, having a carbon content of more than 2.00% and having at least .30% silicon and .30% manganese, preparing a partially finished steel of higher temperature by subjecting a raw material charge to a melt-down period in a furnace to reduce the carbon content to less than .90%, and mixing the first molten iron with the partially finished steel in proper proportion to produce a hyper-eutectoid iron of the desired carbon content and pouring said mixed iron into molds.

2,169,465
PHOTOELECTRIC CELL CONTROL FOR SCALES
Harlan A. Hadley, St. Johnsbury, Vt., assignor to E. and T. Fairbanks and Company, St. Johnsbury, Vt., a corporation of Vermont
Application June 29, 1936, Serial No. 88,060
15 Claims. (Cl. 249—63)



1. In a device of the character described, a source of light emitting a light beam, a radiant energy responsive device positioned in the path of the said light beam, a series of electrical devices of varying electrical capacities, each device being in a separate circuit with the radiant energy responsive device, and an integral multiple stepped interceptor adapted operatively to be moved step by step into the path of the light beam and thereby successively reduce the radiant energy emitted by the radiant energy responsive device at each successive step so as to thereby cause the closing at each step of the circuit to and thus operate the co-operating electrical device of sufficient electrical capacity to be responsive thereto.

2,169,466
FARE REGISTER
Charles E. Hartrick, Chicago, Ill., assignor to Chicago Motor Coach Company, Chicago, Ill., a corporation of Illinois
Application August 28, 1936, Serial No. 98,303
5 Claims. (Cl. 235—32)

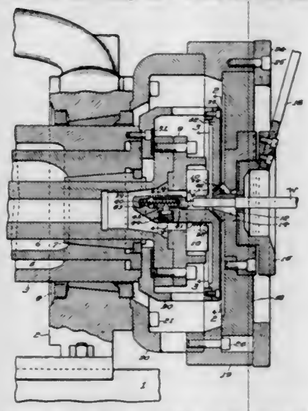


1. A fare register having, in combination, with a coin slot, a counter, means for operating said counter comprising a lever pivotally mounted intermediate its ends adjacent said slot to be swung in one direction by a coin inserted through the slot, spring means for swinging said lever in the opposite direction to actuate said counter, and a latch device for preventing the spring from swinging said lever when actuated by a coin which is withdrawn from said slot comprising a latch member pivotally mounted on the opposite side of said slot, a pawl and ratchet, one element of which is carried on said lever and the other on said member to form the interengaging parts of the latch device, and spring means for normally tensioning said latch member towards its lever engaging position.

2,169,467
WORK CENTERING AND SUPPORTING MEANS FOR MILLING MACHINES
Henry J. Leisner, Philadelphia, Pa., assignor to The Hall Planetary Company, Philadelphia, Pa., a corporation of Pennsylvania
Application January 16, 1939, Serial No. 251,171
11 Claims. (Cl. 10—154)

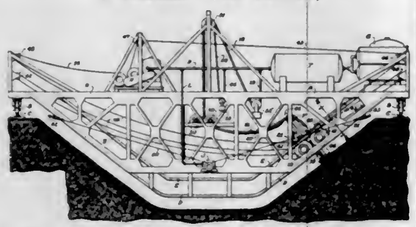
1. In combination with a milling machine comprising a milling cutter, means for rotating the cutter on its axis and means for carrying the cutter in a circular orbit about a second axis, and work holding means axially offset in one direction from the plane of said orbit adapted to receive and stationarily support a work piece, an arm extending within said orbit from one side of said plane to the other, work supporting means carried by the arm adapted to engage the end of

a work piece positioned in said holding means and means for moving the arm about the second



axis in correspondence with the orbital movement of the cutter.

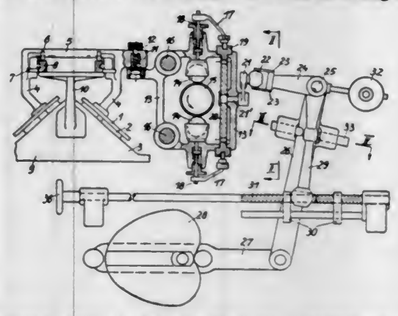
2,169,468
EARTH TAMPING DEVICE
John A. McDougall and Robert E. McGary, Portland, Oreg.
Application October 15, 1938, Serial No. 235,265
7 Claims. (Cl. 61—63)



1. In an earth tamping device for use on a concave ditch surface, a frame extending transversely across said surface, a track supported by said frame, said track following the contour of said surface and held by said frame spaced a uniform distance above said surface, a carriage movable in said track across said surface, means preventing the lifting of said carriage from said track, earth tamping means supported by said carriage at all times, a guide frame on said carriage perpendicular to the plane of travel of said carriage, said tamping means disposed in said guide frame, a tamping shoe carried by said tamping means, means on said carriage for adjusting the position of said tamping means in said guide frame with respect to said surface, means located apart from said carriage for actuating said position adjusting means and for actuating said tamping means.

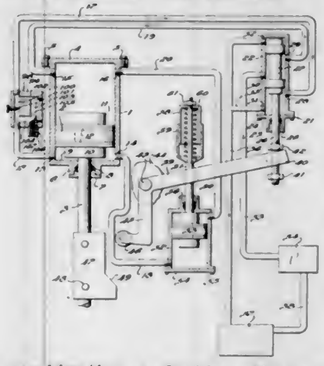
2,169,469
KNITTING MACHINE
Volkhart Walter Mehnert, Siegmar-Schonau, Germany, assignor to Elite-Diamantwerke Aktiengeselischaft, Siegmar-Schonau, Germany, a company of Germany
Application April 29, 1937, Serial No. 139,664
In Germany May 2, 1936
10 Claims. (Cl. 66—64)

8. A flat knitting machine comprising a needle bed, a carriage provided with knitting cams, a support for the suspension of said carriage above said needle bed, said support having the form of an inverted U, rollers arranged on the upper portion of said support, a guideway arranged above said needle bed, said rollers contacting said



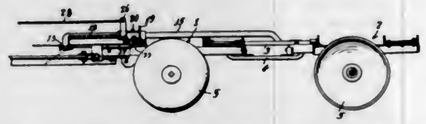
guideway, said U-shaped support having its legs depending from its base to points below said guideway, and the free ends of the legs of said U-shaped support being attached to intermediate points of said carriage, thus providing a space between said guideway and said carriage and rendering the needle bed accessible.

2,169,470
HYDRAULIC CYCLE CONTROL
Ralph A. Miller and Will E. Morris, Detroit, Mich., assignors to Huxon Holding Corporation, a corporation of Michigan
Application July 24, 1936, Serial No. 92,362
4 Claims. (Cl. 121—45)



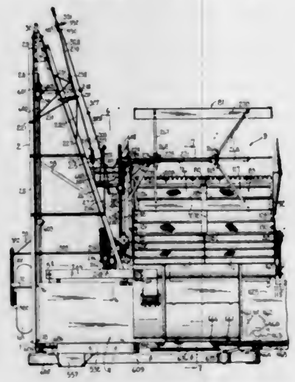
1. In combination, a double acting expansible chamber fluid pressure motor having a reversing valve for reversing the pressure and exhaust connections at the opposite ends of the movable element thereof, a cylinder having closed ends, a piston in said cylinder, one of said piston and cylinder members being stationary and the other movable and connected to said reversing valve for operating the latter, an open conduit connecting one chamber of the motor with one end of said cylinder, a second conduit connecting the other chamber of said motor with the opposite end of said cylinder, whereby the application of excess pressure to one chamber of said motor effects movement of the movable element thereof and also said piston in one direction respectively, means associated with the piston and cylinder for preventing movement of said piston in the opposite direction when an excess pressure is applied to the other chamber of said motor until the movable element of said motor has completed its movement in the opposite direction, a lost motion connection between said piston and cylinder units and said reversing valve for preventing operation of said valve thereby in said first direction of movement, and means associated with said motor for operating said valve near the end of the movement of said motor element in said one direction.

2,169,471
DISK HARROW
Rollie H. Mitchell and Oscar W. Sjogren, Huntington Park, Calif., assignors, by mesne assignments, to Killefer Manufacturing Corporation, a corporation of California
Application May 5, 1936, Serial No. 77,974
39 Claims. (Cl. 55—83)



1. In a single tandem disk harrow, the combination of a front gang of disks, a rear gang of disks, pivot means connecting the disk gangs together to permit the gangs of disks to be angled apart at one side of the harrow, a hitch connected to the front disk gang, a draft connection at the forward end of the hitch, an angle control means, a latch connected between the angle control means and the front disk gang, a fixed arm extending transversely from the draft connection, a latch release means, and a connection from the fixed arm to the latch release means.

2,169,472
COMBINE
Alvin W. Oehler, Ralph L. Anderson, and Louis A. Paradise, Moline, Ill., assignors to Deere & Company, Moline, Ill., a corporation of Illinois
Application September 5, 1936, Serial No. 99,556
51 Claims. (Cl. 56—20)

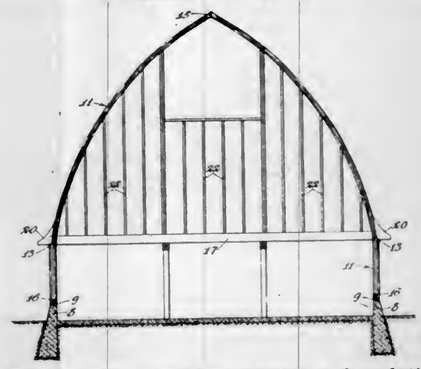


1. A combine comprising a transversely disposed thresher unit, a forwardly facing harvester unit, a frame supporting said units, and ground wheels journaled on said frame and disposed directly underneath said thresher unit and inwardly of the laterally outer ends thereof.

2,169,473
METHOD OF PRODUCING CELLULOSE PULP
Fredrich Olsen, East Alton, Ill., assignor to The Cellulose Research Corporation, a corporation of Delaware
No Drawing. Application February 8, 1935, Serial No. 5,582
3 Claims. (Cl. 92—13)

3. The process of treating woody material to form a pulp having a large proportion of the original noncelluloses uniformly softened, modified and dispersed throughout the fibrous mass, comprising supplying the wood in subdivisions of chip size or smaller, replacing the air in the wood with a solution of a reagent of the group calcium hydroxide, calcium sulphide and magnesium hydroxide, raising the temperature to the point of active reaction and maintaining the concentration of the reagent in said solution constant by supplying an amount of reagent in excess of its solubility while maintaining said raised temperature for a sufficient time to modify uniformly the noncellulosic content of the wood throughout its entire mass, and defibering the treated wood while maintaining the fibers substantially unaffected from their natural condition in the wood.

2,169,474
BUILDING FRAME CONSTRUCTION
Myron K. Pederson, Albert Lea, Minn.
Application March 18, 1938, Serial No. 196,686
1 Claim. (Cl. 20—1)

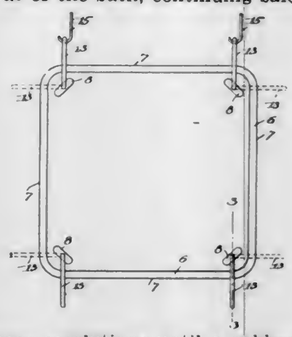


A frame for a building having a foundation, comprising a multiplicity of parallel arch and wall members, each member having a vertical wall portion and an arch portion continuous therewith, and each member constructed of a multiplicity of thin laminations secured together in broadside relation, said wall portion of said member having additional lamination extending from the foundation to a point adjacent to the arch portion to form at their upper ends horizontally aligned shoulders, girt members supported on said shoulders and floor joists supported on said girt members and laminated members.

2,169,475
METHOD FOR MAKING RUBBER ARTICLES
Abraham N. Spánel, Rochester, N. Y.
Application December 13, 1935, Serial No. 54,280
9 Claims. (Cl. 18—58)

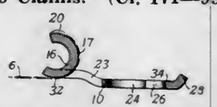
5. The method of making a sheet-like article of thin rubber having a reinforced edge which comprises providing a plate having edge reinforcement generating means, rotating said plate with a substantial part of its lower portion dip-

ping into a bath of an aqueous dispersion of rubber or the like and with its upper portion projecting out of the bath, continuing said rotation



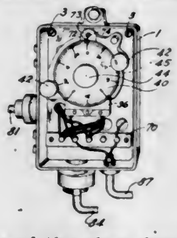
one or more revolutions until a rubber layer of the desired thickness is deposited on the sides of said plate, drying the layer and removing the layer from said plate.

2,169,476
GALVANOMETER
Harry A. Gill, Foxboro, and Ralph H. Baker, Attleboro Falls, Mass., assignors to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Application May 17, 1937, Serial No. 142,990
15 Claims. (Cl. 171—95)



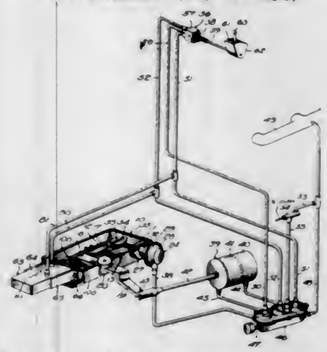
9. In a meter assembly having an armature and a delicate suspension strip for said armature, in combination, means for securing an end of said strip, and a crowned cylindrical snubbing surface over which the suspension strip passes in leaving said means.

2,169,477
ELECTROMAGNETIC CIRCUIT BREAKER
Max L. Jeffrey, Shaker Heights, Ohio, assignor to The M. L. Jeffrey Corporation, Cleveland, Ohio, a corporation of Ohio
Application June 15, 1936, Serial No. 85,193
6 Claims. (Cl. 200—38)



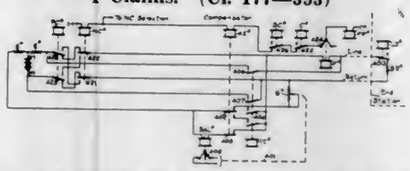
1. In a device of the class described, a motor driven timer comprising a driving and driven member in clutching engagement with each other, a switch operable by the driven member to close a circuit after a predetermined time interval, electromagnetic means for disengaging the driving and driven members, spring means for returning the driven member to starting position, and manual means to disengage said driving and driven members to permit relative adjustment of the driven member to adjust the time interval of the driven member for operation of the switch.

2,169,478
GEAR SHIFTING MECHANISM FOR MOTOR VEHICLES
Edward D. Lasley, Detroit, Mich., assignor to Automatic Shifters, Inc., Richmond, Va., a corporation of Virginia
Application November 13, 1936, Serial No. 110,733
20 Claims. (Cl. 74—334)



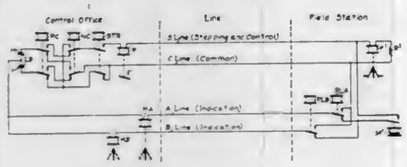
1. A gear shifting mechanism for a motor vehicle having a transmission provided with a plurality of shifting members movable different distances to provide different gear ratios, comprising means for selecting said members for actuation, a motor for actuating the selected shifting member, means for controlling the operation of said motor, and a plurality of auxiliary control devices each connected for actuation by one of said shifting members and connected and arranged with respect to said motor and said shifting members for deenergizing said motor when the selected shifting member reaches neutral position, each auxiliary control device having a portion operable when one of said shifting members reaches a gear position for deenergizing said motor.

2,169,479
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
Winfred T. Powell, Brighton, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application May 28, 1937, Serial No. 145,323
4 Claims. (Cl. 177—353)



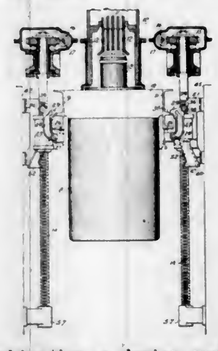
1. In a centralized traffic control and indication system of the selector type for transmitting controls to or indications from any one of a plurality of field stations at one time; the combination with an office and a plurality of field stations; a lock-out relay at each field station; a polar line relay at each field station; a line opening relay at each field station; a line circuit extending through the line relay, a contact of said line opening relay and a back contact of the lock-out relay of each field station in succession in accordance with the distance such field station is from said office and back over a return wire; a bridge partial circuit at each field station connecting the front contact of said lock-out relay contact for that station to the return wire; means in said office for normally energizing said line circuit with current of a particular polarity; means at each field station responsive to a changed condition at such station for actuating said line opening relay and opening said line circuit, said last mentioned means being effective only if said line circuit was energized with current of said particular polarity and said polar line relay assumed a particular position when said changed condition became existent; means for energizing the lock out relay at such station in response to opening of the line circuit by its associated line opening relay; means responsive to the energization of said lock-out relay for again actuating said line opening relay to reclose said line circuit; and means at said office for changing the polarity of energization of said line circuit when said line circuit is to be used for transmitting controls from said office.

2,169,480
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
Neil D. Preston, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application May 16, 1936, Serial No. 80,095
8 Claims. (Cl. 177—353)



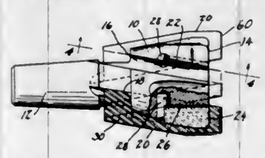
6. In a remote control system; a first, a second and a third line wire extending from a control office to a distant field station; devices at said station; means including a source of current in said office for selectively applying positive or negative time spaced control impulses to a first line circuit including said first line wire and a common wire; manually controllable means in said office for determining the positive or negative character of each control impulse applied to said first line circuit; means at said station controlled in accordance with the character of said control impulses for selectively controlling said devices; indication devices in said office; means including a connection between said second and third line wires and said source of current and automatically operable means at said stations for selectively applying positive or negative time spaced indication impulses derived from either said first line wire or said common wire to a second line circuit including said second line wire and a third line circuit including said third line wire; means including said manually and said automatically operable means for determining the positive or negative character of each indication impulse; and circuit means in said office selectively controlled in accordance with the character of said indication impulses and the condition of said manually controllable means to compensate for the polarity of current applied to said first line circuit.

2,169,481
CLAMPING DEVICE
Thomas G. A. Sillers, Milwaukee, and John H. Michael, West Allis, Wis., assignors to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application August 15, 1936, Serial No. 96,240
10 Claims. (Cl. 175—298)



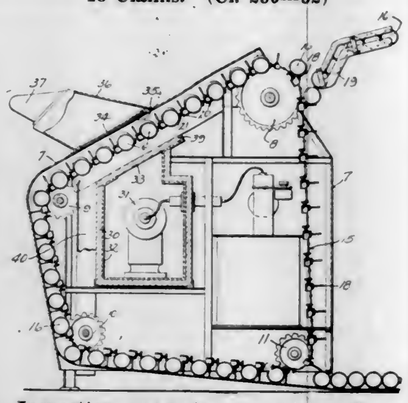
2. In combination, a device, means for raising said device to and lowering said device from a given position, means for clamping said device against movement independent of movement of said raising and lowering means, and means operable in response to the raising of said device substantially to and the lowering of said device substantially from said given position for positively actuating said clamping means into and out of clamping position.

2,169,482
CUTTING TOOL ASSEMBLY
Claude A. West, Detroit, Mich., assignor to Gairing Tool Company, Detroit, Mich., a corporation of Michigan
Application March 9, 1936, Serial No. 67,872
2 Claims. (Cl. 29—105)



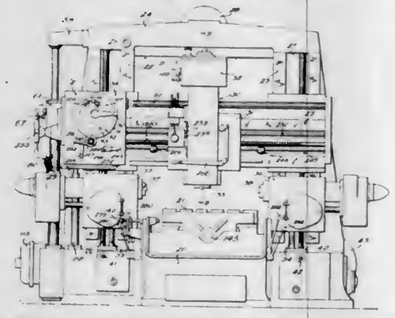
1. A tool holding device comprising, in combination, a tool holder having a channel, a tool adapted to be slidably received in said channel, a wedge shaped member likewise adapted to be slidably received in said channel together with said tool, means coupling said tool and said wedge-shaped member together for slidable lengthwise movement through said channel, but permitting lateral movement of the wedge member relative to the tool, said channel provided with separate bottom portions inclined longitudinally to one another and upon one of which the tool is adapted to slide and upon the other of which the wedge member is adapted to slide, said relative difference in inclination of said bottom portion causing said wedge member to move laterally of the tool as the two are slidably directed lengthwise into the channel, and means for limiting endwise movement of said wedge member so as to cause the same to shift laterally relative to the tool as the latter continues to advance in the channel whereby the wedge member is forced into tight fitting engagement with the tool.

2,169,483
X-RAY INSPECTION EQUIPMENT AND METHOD
Matthew B. Adrian, Milwaukee, Wis., assignor to X-Ray Shoe Fitters, Inc., Milwaukee, Wis., a corporation of Wisconsin
Application August 17, 1938, Serial No. 225,397
18 Claims. (Cl. 250—52)



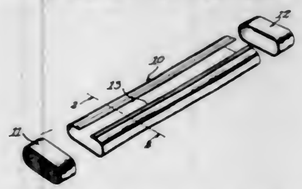
1. Inspection apparatus comprising the combination with an X-ray tube and a screen spaced therefrom, of means defining a path for work movement between said tube and screen, and a housing for said tube provided with a viewing chamber extending forwardly from said screen and defining an operator's field of sight including said screen, said chamber having a sight opening so situated respecting said screen that said path and the major axis of the operator's field of sight from said opening to said screen are substantially in the same plane.

2,169,484
MACHINE-TOOL TRANSMISSION AND CONTROL MECHANISM
Joseph B. Armitage, Wauwatosa, Wis., assignor to Kearney & Trecker Corporation, West Allis, Wis., a corporation of Wisconsin
Application June 11, 1937, Serial No. 147,685
37 Claims. (Cl. 90—21)



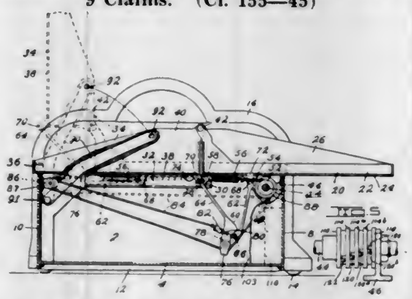
1. In a machine tool having a plurality of movable supports, the combination with a source of power and a variable speed device disposed to transmit power from said source for moving said supports at a selected feed rate, of means including an over-running clutch and a disconnecting clutch associated with each of said supports and disposed to connect any of said supports selectively to said variable speed device, and means including a disconnecting clutch associated with each of said supports disposed to connect any of said supports directly to said source of power for moving said supports selectively at rapid traverse rate, the arrangement being such that the movement of any of said supports may be changed from feed rate to rapid traverse rate without disconnecting the feed rate clutch associated with said support and without changing the rate of movement of any other support.

2,169,485
ICE CREAM MOLD
Samuel Bucher, Milwaukee, Wis.
Application May 17, 1937, Serial No. 143,011
1 Claim. (Cl. 107—19)



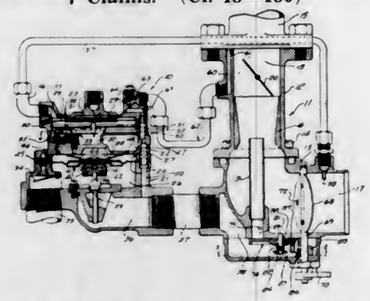
A mold for food materials to be frozen, said mold including a bottom and side walls formed of resilient material, and ends walls provided with means to engage the bottom and side walls in confined position, the top margins of the side walls being spaced from each other when engaged by the end walls to provide space for inserting and working said food material, whereby upon removal of the end walls the side walls may spring away from solid contents of the mold.

2,169,486
CONVERTIBLE FURNITURE
John M. Dorton, Bonner Springs, Kans.
Application June 4, 1937, Serial No. 146,473
9 Claims. (Cl. 155—45)



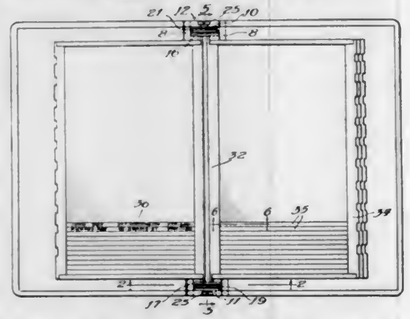
1. An article of furniture comprising main supporting means, a seat frame mounted for forward and backward movement on said supporting means, a drum, a cable connected to said drum and adapted to advance the seat frame when said drum is rotated in one direction, a shaft mounted in the supporting means and upon which the drum is fixed, means for rotating said shaft, a member fixed upon said shaft to rotate therewith, a stationary member fixed to the supporting means and spaced from the rotatable member, a series of elements loosely mounted upon the shaft and interposed between the rotatable and stationary members, laterally projecting lugs on said members and said elements adapted to cooperate therewith in checking rotation of the shaft when the seat frame has been advanced or retracted a predetermined distance, and a back frame connected to the seat frame.

2,169,487
CARBURETING APPARATUS
Roy F. Ensign, San Marino, Calif., assignor to Ensign Carburetor Co., Ltd., Huntington Park, Calif., a corporation of California
Application September 26, 1936, Serial No. 102,718
7 Claims. (Cl. 48—180)



1. The combination comprising: a gas carbureter including a suction passage connecting with an engine manifold and having an air inlet, an outlet and a throttle for controlling the flow of fluids through said suction passage; means for delivering gas at substantially constant pressure to said suction passage, said gas delivery means including a relatively severely restricted starting orifice and a relatively less restricted normal operating orifice; a choke valve in said suction passage at the inlet side of the point of fuel discharge from said fuel delivery orifices; means for closing said choke valve; a fuel control valve actuated with said choke valve for closing said normal operating orifice; and means for admitting a restricted flow of air to said suction passage when said choke valve is closed.

2,169,488
ROTATING VISIBLE FRAME BOOK
Edward C. Gast, Jr., Cicero, Ill., assignor, by mesne assignments, to Acme Visible Records, Inc., Chicago, Ill., a corporation of Delaware
Application March 16, 1938, Serial No. 196,145
7 Claims. (Cl. 129—34)



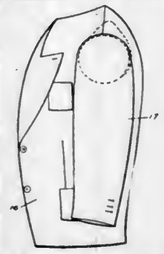
1. A book having a back and covers hinged thereto, a supporting member carried by said back between said covers, means rotatably mounted upon said supporting member, and a plurality of relatively rigid planar members swingably mounted in constant spaced relationship upon said rotatable means.

2,169,489
SHOULDER PAD CONSTRUCTION
Jerome Giuseffi, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine, a corporation of Maine
Application June 14, 1938, Serial No. 213,645
7 Claims. (Cl. 2—268)



1. The combination with a coat comprising a lined shoulder with a sleeve stitched thereto, of a shoulder pad comprising a pad body superimposed on the face of the shoulder lining and extending to and terminating at the outer extremity of the shoulder, a cover on the pad body attached to the shoulder lining, and an extension on the cover at the shoulder extremity and covering the adjacent edge of the pad body and attached inside the sleeve adjacent the stitch connection of the shoulder and sleeve.

2,169,490
GARMENT CONSTRUCTION
Jerome Giuseffi, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine, a corporation of Maine
Application June 24, 1938, Serial No. 215,660
1 Claim. (Cl. 2—268)

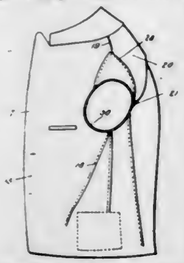


The method of positioning a shoulder pad in a garment provided with a shoulder and a sleeve stitched thereto, the method consisting of sewing an edge of the pad to the edge of the shoulder inside the garment and with the same stitching attaching together said sleeve and shoulder, and subsequently placing and securing the pad in superimposed position on the inner face of the shoulder.

2,169,491
COAT CONSTRUCTION
Jerome Giuseffi, Cincinnati, Ohio, assignor to The Goodall Worsted Company, Sanford, Maine, a corporation of Maine
Application June 24, 1938, Serial No. 215,661
3 Claims. (Cl. 2—268)

1. A coat comprising a shoulder with a sleeve stitched thereto, a shoulder pad comprising a pad body superimposed upon and attached to the inner face of the shoulder adjacent the sleeve head, a cover member on the pad, and an extension strip attached to the sleeve head at the

seam connecting the shoulder and sleeve, said extension strip being connected with the edge of



the pad cover adjacent the shoulder extremity for enclosing the outer extremity of the pad body.

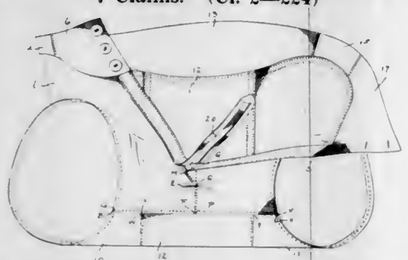
2,169,492

REINFORCEMENT FOR UNDERGARMENTS

Jacob A. Goldfarb, Frankfort, Ky., assignor to Union Underwear Company, Inc., Indianapolis, Ind., a corporation of Indiana

Application July 2, 1938, Serial No. 217,185

7 Claims. (Cl. 2—224)



1. In an undergarment, two members forming the major portion thereof and having a front opening, the front edge portion of one of said members being slit vertically from its bottom edge in parallel relation to its initially vertical edge, said bottom and vertical edges being initially straight and at right angles to each other, said slit having a length substantially equal to half of a transverse crotch seam into which the opposite vertical edge of said one member joins, an initially horizontal slit cut from said vertical slit a distance substantially equal to that desired for the positioning of the lower end of said opening above said seam, said other member being similar and of the same size but reversed in position in relation to said one member and being provided with like initially vertical and horizontal slits similarly positioned, the lower edge portions of both of said horizontal slits being secured one along the other in a seam normal to said first seam, and that part of said one member between its vertical slit and edge forming a strip turned from said opening back upwardly along the opening edge portion thereabove of said other member.

2,169,493

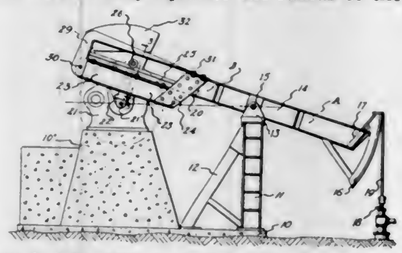
PUMPING DEVICE

George T. Humphrey, Dallas, Tex., assignor to Republic Supply Company, Houston, Tex.

Application October 23, 1936, Serial No. 107,119

3 Claims. (Cl. 74—45)

1. A pumping device including, a support, a walking beam pivotally mounted on said support and provided at one end with a head having an arcuate working portion formed on a radius from the pivotal axis of the beam and having a flexible operating connection with a pump rod whereby the rod reciprocates vertically in a straight line when the beam is rocked said beam having an elongate longitudinal opening in its opposite end portion, a longitudinal track member mounted on the beam in the lower part of said opening, power means including a crank arm rotatable about an axis located in the same horizontal plane as the pivotal axis of the beam and at a distance therefrom substantially equal to the radius of the ar-



cuate head portion at the opposite end of the beam, and a roller mounted adjustably on said crank arm whereby to be positioned at different distances from the axis of the arm, the adjustment of the roller on said crank arm being arcuate on a radius through the axis of the arm from the pivotatl axis of the beam and said roller engaging said track member and traveling thereon with its axis coinciding constantly with a fixed line of the beam extending longitudinally through the pivotal axis of the beam.

2,169,494

TREATMENT OF BUTANE

Vladimir Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application September 30, 1936, Serial No. 103,390

4 Claims. (Cl. 260—676)

1. A process for producing isobutane which comprises subjecting normal butane, in the substantial absence of polymerizable olefins, to the action of activated carbon impregnated with anhydrous aluminum chloride under conditions such that isomerization of normal butane constitutes the principle reaction in the process, whereby to convert a major portion of the normal butane into isobutane.

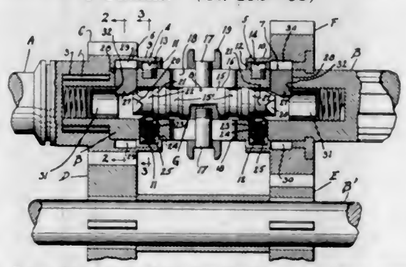
2,169,495

TRANSMISSION SYNCHRONIZER AND GEAR LOCK-UP

Arnold H. Jessen, Los Angeles, Calif.

Application June 22, 1936, Serial No. 86,615

6 Claims. (Cl. 192—53)



1. In a transmission mechanism, rotary mem-

bers, one of said members having an axial bore, locking elements on the other of said members, synchronizing elements on said other member, locking elements carried by and being radially extensible from said one member for locking engagement with the corresponding elements on said other member, synchronizing elements mounted on said one member for extension therefrom into engagement with corresponding elements of said other member, an actuator slidable in the bore of said one member and initially engaging and extending the extensible synchronizing elements and finally engaging and extending said extensible locking elements, and means for sliding said actuator in either direction.

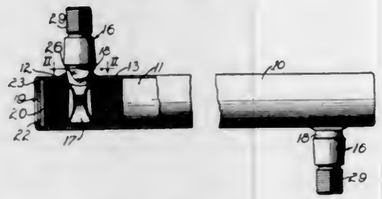
2,169,496

LINK

Carl F. Lautz, Buffalo, N. Y., assignor to Houde Engineering Corporation, Buffalo, N. Y., a corporation of New York

Application August 27, 1937, Serial No. 161,213

8 Claims. (Cl. 74—579)



1. A joint stud comprising a metal member having a cylindrical threaded end portion, a frustro-conical intermediate portion having the apex thereof adjacent the cylindrical end, a converging intermediate portion extending from the base of the frustro-conical portion, said converging portion having diametrically opposite flat sides parallel to the axis of said stud, and an enlarged flattened head extending from the apex of said converging portion, said enlarged head having a width greater than its thickness and having opposite broad faces thereof normal to said flat sides of said converging portion and sloping toward the shank.

2,169,497

CAN OPENER

Richard Carl McRoberts, Tama, Iowa

Application June 21, 1937, Serial No. 149,346

1 Claim. (Cl. 30—3)



A can opener, comprising a cutting blade having a sharpened cutting edge portion, made of hard metal for effective cutting, a laterally widened portion at the rear of the cutting edge and a laterally narrowed portion at the rear edge of the blade made of soft metal which will be quickly demagnetized, means for magnetizing the blade so that metal particles will adhere to said narrowed portion and not be scraped off when the blade is being advanced through a can cover, and for demagnetizing the blade so that said metal particles may be released and removed.

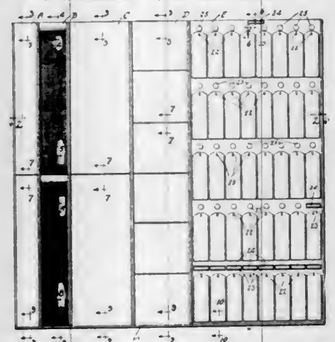
2,169,498

DEVICE FOR CONTROLLING AND PLANNING PRODUCTION, ORDER DISPATCHING, STORES, AND SALES

Henry Molz, Glendale, Calif.

Application January 25, 1938, Serial No. 186,828

9 Claims. (Cl. 40—19.5)



6. A manually operatable device comprising a frame member having a hook means integral therewith and adapted for over-lapping engagement with a hang rail for vertically hanging the same, a hang rail, said frame member embracing a plurality of sectional portions in spaced relation with one another and adapted to fixedly or removably receive a plurality of writing surfaces, cards, slate and blackboard pieces or the like, for example, a channel rail, said frame member slidably positioned in said channel rail in hanging relation with said hang rail, and whereby said manually operatable device may be vertically secured to an upright supporting structure for visibly portraying indicia and data printed and recorded on said several writing surfaces in said plurality of spaced sectional portions, and against outward movement therefrom.

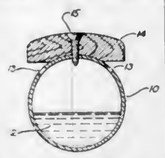
2,169,499

POULTRY ROOST

Walter F. Niemeyer, Marion County, Ind.

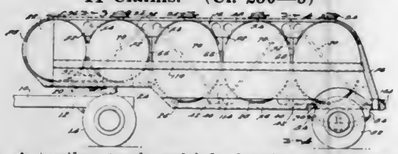
Application November 15, 1937, Serial No. 174,525

1 Claim. (Cl. 119—25)



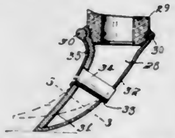
A poultry roost comprising a horizontal cylindrical metal tube closed at its ends retaining an insecticide and having a plurality of holes in two parallel rows for escape of insecticide fumes or vapors, and a strip of wood contacting and secured to the tube between but remote from the two rows of holes and projecting laterally thereof at each longitudinal edge to be contacted by and to deflect said fumes, each row of holes being positioned directly below the bottom surface of the strip of wood and out of contact therewith, the portion of the strip of wood between the rows of holes being directly in contact with the exterior surface of the tube between the rows of holes, whereby poultry sitting on the roost supply heat to aid in volatilizing said insecticide in the tube and receive the escaping and deflected volatile matter under the feathers.

2,169,500
TANK VEHICLE
Frederick M. Reid, Detroit, Mich., assignor to Fruehauf Trailer Company, Detroit, Mich., a corporation of Michigan
Application July 18, 1938, Serial No. 219,726
11 Claims. (Cl. 280—5)



2. A trailer tank vehicle having a frame and comprising a plurality of individual tanks with the longitudinal axes thereof disposed transversely of the tank vehicle, each of said tanks having the tops and bottoms thereof curved transversely of their respective longitudinal axes, and longitudinally extending, rigid top and bottom members having portions thereof shaped complementary to the curved tops and bottoms of said tanks, said top and bottom members being rigidly and permanently interconnected to form a self-sustaining frame structure and securely and permanently attached to the tops and bottoms of said tanks thus forming the longitudinal beam load carrying elements of said frame independent of the tanks the tops and bottoms of said tanks forming a longitudinal beam load carrying element of said frame.

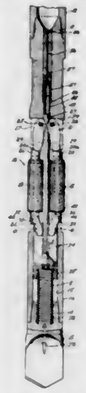
2,169,501
DISPENSING CAP
Richard E. Salvesen, Forest City, Iowa
Application July 10, 1937, Serial No. 152,943
5 Claims. (Cl. 91—67.5)



2. The combination of a container and a flexible member closing the open end of said container and having a discharge opening, and a fixed element projecting through and closing said opening, whereby stretching the flexible element in one direction will cause an elongated and enlarged opening to be formed at one side of said fixed element to permit material within said container to flow therefrom.

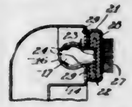
2,169,502
WELL BORE ENLARGING TOOL
James J. Santiago, Los Angeles, Calif., assignor to John Grant, Los Angeles, Calif.
Application February 28, 1938, Serial No. 193,056
2 Claims. (Cl. 255—76)

1. A well reaming tool comprising an elongated body adapted to be attached to a drill stem, said body containing a transverse longitudinal slot, a pair of cutters radially contractible within said slot, a pair of cutter carrying arms pivotally connected to the upper ends of said cutters and mounted on the body to swing vertically, a chamber and cutter operating piston within the body below said slot, a tube connected to said piston and extending longitudinally through said slot into a body bore thereabove, said piston being movable upwardly by fluid pressure communicated through said tube to said chamber, and means adapted to be dropped through the drill stem into engagement with said tube whereby fluid pressure applied to said means causes the tube and piston to move downwardly within the



body, said means being apertured to pass fluid into said tube and restricting fluid flow to a greater degree than the fluid restriction offered by the tube bore.

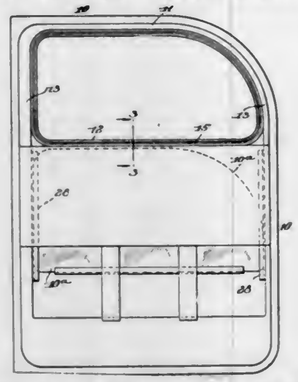
2,169,503
WINDOW MOUNTING
Carl F. Schlegel, Brighton, N. Y., assignor to The Schlegel Manufacturing Company, Rochester, N. Y., a corporation of New York
Application April 15, 1938, Serial No. 202,279
2 Claims. (Cl. 20—69)



1. A unitary weather strip comprising an elongated body member formed of rubber and having a resilient pad at one side thereof, and a metal strip having a securing portion provided with laterally projecting parts embedded within the material of the body member and also having oppositely disposed rows of upstanding finger-like members, those of each row being spaced one from another and in staggered relation relative to those of the opposite row, said finger-like members being formed for insertion within a groove of a supporting member for the weather strip and for cooperation with the walls of said groove to secure the strip on the supporting member.
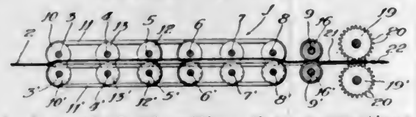
2,169,504
WINDOW MOUNTING
Charles P. Schlegel, Rochester, N. Y., assignor to The Schlegel Manufacturing Company, Rochester, N. Y., a corporation of New York
Application April 15, 1938, Serial No. 202,280
1 Claim. (Cl. 296—44.5)

In an automobile window structure wherein the metal frame of the window is formed in a channel shape and is provided with a surface for the reception of window cushioning and weather stripping means and said surface being provided with a groove, a unitary weather stripping comprising an elongated piece of material having a cushiony surface, a securing strip of resilient material having a resilient bead adapted to be pressed into said groove to secure the weather stripping in said channel, said piece of material having its side edges wrapped around the se-



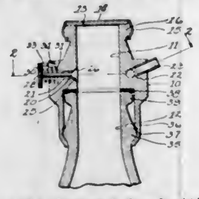
curing strip in such manner that the side edges of said material are confined and pressed between the securing strip and said surface.

2,169,505
METHOD FOR MAKING STRETCHABLE PAPER
Clayton Carr Sherman, Chicago, Ill., assignor to H. P. Smith Paper Company, Chicago, Ill., a corporation of Illinois
Application January 15, 1937, Serial No. 120,668
2 Claims. (Cl. 154—33)



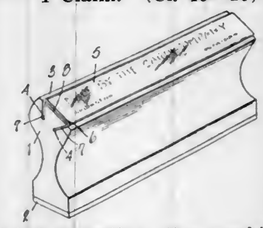
1. A method of setting the corrugations of a longitudinally corrugated web which comprises, passing a corrugated web forwardly in a direction parallel to said corrugations, and ironing said corrugations to a plane intermediate the planes of the crests of said longitudinal corrugations at areas spaced longitudinally along each of said corrugations.

2,169,506
BOTTLE FIZZING ATTACHMENT
Walter J. Simmons, Milwaukee, Wis.
Application April 21, 1937, Serial No. 138,123
7 Claims. (Cl. 215—78)



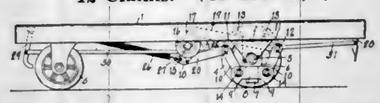
5. A fizzing attachment for bottle mouth pieces provided with beads to which such attachments may be anchored, comprising the combination with a tubular attachment body having an unobstructed passage therethrough substantially corresponding in diameter with the diameter of the bottle mouth pieces for which the attachment is intended and having the upper end corresponding in countour and diameter with the cap receiving portions of such bottle mouth pieces, said passage being adapted for axial alignment with a bottle mouth piece passage, a flexible bottle engaging member at the lower end of the attachment, said attachment being also provided with a fizzing nozzle intermediate of its ends, and a manually operable valve controlling delivery through said nozzle at a point circumferentially distant from the nozzle outlet, the body having a shoulder concentric with its axial passage and formed to extend over the top bottle bead with a gasket interposed.

2,169,507
LABEL MOUNTING FOR STAMPS OR PRINTING BLOCKS AND THE LIKE
Freeman R. Stearns, Ludington, Mich., assignor to The Carrom Company, Ludington, Mich., a corporation of Michigan
Application July 15, 1938, Serial No. 219,371
1 Claim. (Cl. 40—10)



In a label mounting, the combination of a supporting block provided with a face having inwardly converging substantially spaced kerf-like slots therein, a label of a width approximately that of the spacing of said slots, and a label cover and retainer of transparent resilient material of channel cross section and having inwardly converging relatively wide flanges engaged in said slots, the angle of the flanges relative to each other normally being substantially more convergent than the angle of the slots relative to each other so that when the flanges of the retainer are inserted in the slots of the supporting block the flanges of the retainer are deflected from their normal position and placed under clamping frictional stress with walls of the slots and the web portion of the retainer is bowed inwardly into clamping stress with the label arranged upon the face of the holder between the slots.

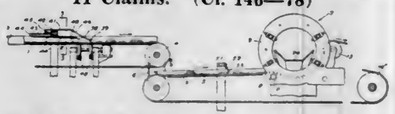
2,169,508
TRUCK ANCHOR
Emery G. Ulrich, Lakewood, Ohio
Application October 1, 1937, Serial No. 166,824
12 Claims. (Cl. 188—7)



1. The combination with a truck and its carrying wheels, of a jack operatively associated with one of the carrying wheels and comprising a standard carried by said body, a foot block vertically slidable on said standard, opposed pairs of toggle links, the links of the pairs being pivotally connected to each other, one link of each pair being pivotally mounted on the standard and the other link of each pair to said foot block, a rockshaft having oppositely disposed arms, an actuating link connecting each rockshaft arm to one of the toggle link connecting pivots whereby the toggles are simultaneously actuated from said rockshaft, a spring connected to one of the arms

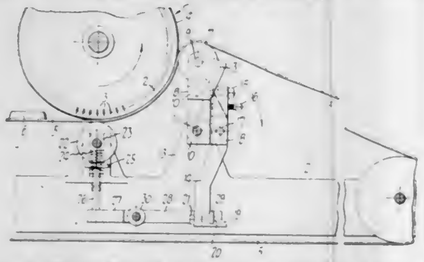
on said rockshaft to urge the same in toggle breaking direction, a spring actuated holding dog, said rockshaft being provided with a keeper with which said holding dog coacts to lock the jack in its actuated position, a push lever at one end of said body and a pull lever at the other end thereof, and connecting links for said levers to said locking dog whereby the locking dog may be released from either end of the truck body.

2,169,509
FRUIT DICING MACHINE
Frank A. Wool, San Jose, Calif.
Application August 7, 1937, Serial No. 157,928
11 Claims. (Cl. 146—78)



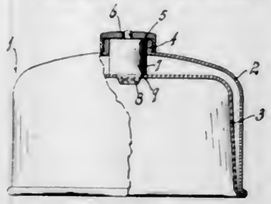
1. In a fruit dicing machine, a rotary cutting device comprising a horizontal row of spaced, opposed, axially aligned annular cutting blades and traverse cutting blades intersecting the annular blades at spaced points therearound and means for supporting said annular and transverse blades in the aforesaid relation, means mounting said cutting device for revolving about the central axis of the annular blades, said annular and transverse blades being formed with cutting edges facing radially outwardly of said axis, a conveyor belt frictionally engaging the peripheral side of said device arranged and adapted for revolving said device and for carrying fruit thereon to between the belt and the annular and cross blades for cutting by said blades upon actuation of the belt to revolve the device, and means for actuating said belt.

2,169,510
TENSION ROLLER DEVICE AND COMBINATION
Frank A. Wool, San Jose, Calif.
Application October 22, 1938, Serial No. 236,477
8 Claims. (Cl. 146—89)



1. In fruit dicing apparatus, including a rotary cutter having peripheral, radially outwardly directed cutting edges for cutting fruit presented thereto, a conveyor belt for fruit to be cut, belt supporting means in a position holding a portion of said belt under tension with said portion relatively close to said cutting edges for cutting of fruit on said portion by said edges and movable to a second position releasing the tension on said portion, movable means engaging said portion actuated for movement only upon a predetermined pressure on said portion by reason of engagement of foreign material on said portion having greater resistance to cutting by said edges than the flesh of the fruit thereon, and means operatively connecting between said movable means and said belt supporting means actuated by movement of said movable means for causing movement of said belt supporting means to said second position.

2,169,511
THERMAL COVER
Carl T. Bolen, Long Beach, Calif.
Application February 15, 1938, Serial No. 190,610
5 Claims. (Cl. 62—91.5)



1. A thermal cover for foods comprising spaced outer and inner walls, a cup removably mounted in the cover, said cup being positioned between the inner and outer walls, said inner wall having an opening therein, and said cup having perforations in the bottom thereof, said perforated bottom fitting in the opening in the inner wall.

2,169,512
ROTARY KILN
Niels Sofus Borch, Copenhagen, Denmark, assignor to F. L. Smidth & Co., New York, N. Y., a corporation of New Jersey
Application September 23, 1938, Serial No. 231,337
6 Claims. (Cl. 263—33)



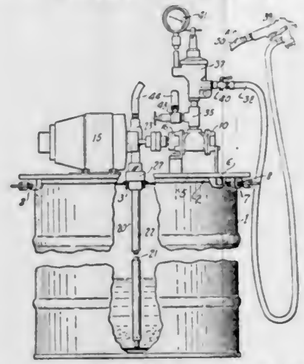
1. In a kiln, an outlet end section comprising a pair of rings connected together in alignment, the outer ring being made up of arcuate sections, and a lining within the rings.

2,169,513
PROCESS FOR HARDENING ALBUMINOUS SUBSTANCES
Johannes Brunken, Dessau, Anhalt, Germany, assignor, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
No Drawing. Application July 16, 1937, Serial No. 154,042. In Germany July 28, 1936
8 Claims. (Cl. 95—7)

3. A process of hardening an albuminous substance which consists in treating it with a ketone containing in its molecule at least one halogen atom and no aldehyde group.

8. A photographic material provided with a gelatin silver halide emulsion layer, said layer containing the condensation product of gelatin and a ketone containing in its molecule at least one halogen atom and no aldehyde group.

2,169,514
SPRAY APPARATUS
Gale H. Buzzard and Harold A. Roselund, Toledo, Ohio, assignors to The De Vilbiss Company, Toledo, Ohio, a corporation of Ohio
Application September 1, 1937, Serial No. 161,928
7 Claims. (Cl. 221—80)



1. In an apparatus of the class described, a pump, a suction tube for insertion into a liquid container and having communication with the pump inlet, means forming a material discharge passage from the pump outlet, said suction tube including a rigid part through which the suction passage extends and having a lateral inclined opening into said passage, and means closing the outlet end of said opening and having a tubular filter member projecting across the suction passage with its end opened to one side of the passage, whereby material in its flow through the suction passage passes through said open end of the filter member and then through its filtering side wall.

2,169,515
CARBOXYLIC ACID ESTERS OF AROMATIC SULPHOCARBOXYLIC ACIDS WITH HYDROXY-ALKYLAMIDES AND PROCESS OF MAKING SAME
Otto Albrecht, Basel, Switzerland, assignor to Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application October 8, 1937, Serial No. 168,085. In Switzerland October 17, 1936
12 Claims. (Cl. 260—401)

1. A process for the manufacture of carboxylic acid esters of aromatic sulphocarboxylic acids of the benzene series, consisting in reacting a member selected from the group of compounds consisting of the aromatic sulphocarboxylic acids, their esters, salts, anhydrides and halides with hydroxy alkylamides of such carboxylic acids which contain at least 8 carbon atoms and which are difficultly soluble in water.

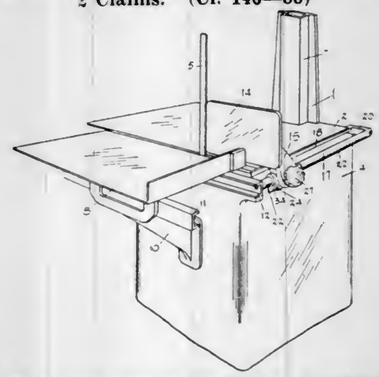
2,169,516
GASKET
George T. Balfe, Detroit, Mich., assignor to Detroit Gasket & Mfg. Company, Detroit, Mich., a corporation of Michigan
Application January 24, 1938, Serial No. 186,700
1 Claim. (Cl. 288—33)

An insulator gasket of integral, unitary construction sufficiently compressible to provide a good seal and impermeable to water, gas and oil, comprising a mixture of compressible insulating material, such as asbestos, in finely divided state having uniformly distributed therethrough a heat-hardened synthetic resin, the relationship



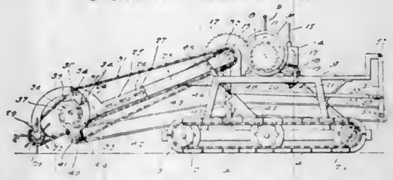
of insulating material to resin being of the order between 4:1 and 3:2 and the mixture being pressed to shape under a compression sufficient to provide a self-sustaining form and to impart the desired gasket strength and density and being finally cured by heat treatment.

2,169,517
MEAT SAWING MACHINE
Vincent G. Biro, Marblehead, Ohio
Application May 8, 1939, Serial No. 272,433
2 Claims. (Cl. 146—88)



1. In a meat-sawing machine, a machine bed; a bar secured to the bed and having gear teeth; a meat-guide plate; a bracket member connected to the plate for supporting the plate for pivotal and slidable movements on the bar and having a pinion rotatably supported in the bracket and adapted to engage the teeth of the bar; a handle connected to the pinion for rotating the pinion to adjustably move the plate relative to the machine bed; the bar having a plane surface contiguous to the ends of the teeth of the bar to enable rotation of the pinion, the bracket and the plate.

2,169,518
TRENCH DIGGING MACHINE
Henry J. Brady, McCone City, and Philip H. McConnell, Park Grove, Mont.
Application December 10, 1938, Serial No. 245,004
3 Claims. (Cl. 37—96)



1. A trenching and tunneling machine of the class described comprising a portable supporting

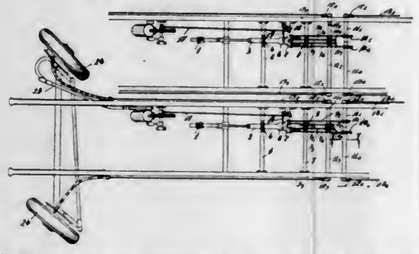
frame, a motor on the frame, a pair of forwardly extending arms pivotally supported at their rear ends to the front part of the frame, a cutter bar carried by the forward portions of the arms, bits carried by the cutter bar, means for rotating the cutter bar from the motor, a trough carried by the arms and paralleling and arranged close to the cutter bar, a rotary shaft passing through the trough, a pair of oppositely arranged spiral conveyors connected with the shaft and having their inner ends spaced apart, conveying means for receiving the material moved along the trough by the spiral conveyors for moving such material rearwardly of the frame, means for operating the conveyor and the spiral conveyors from the motor and means for raising and lowering the arms.

2,169,519

DEVICE FOR REGULATING THE ACTION OF BRAKES

Henry Briand, Paris, France

Application December 30, 1936, Serial No. 118,414
In France January 3, 1936
7 Claims. (Cl. 188—152)



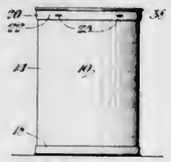
1. In a vehicle including four wheels, individual brakes for said wheels, and steering means for at least some of said wheels, a regulating device which comprises, in combination, a central brake control member, individually variable means for adjustably connecting said control member with said brakes, respectively, a swing tree for adjusting said connecting means, respectively, a tail carried by said swing tree, and means for interconnecting said tail and said steering means, including a cam rigid with a portion of said steering means.

2,169,520

CONTAINER

Harold G. Carsley, Waukegan, Ill., assignor to Cyclone Fence Company, a corporation of New Jersey

Application January 3, 1939, Serial No. 249,079
6 Claims. (Cl. 229—5.7)



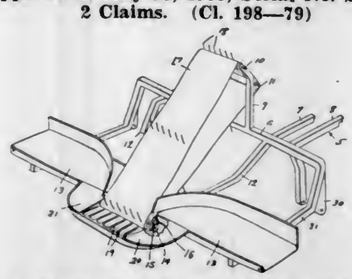
1. A container of the character described comprising a body portion formed of non-metallic material having at one end thereof an outer annular strap and an inner head retaining rim of relatively thin metal engaging the outer and inner surfaces respectively thereof, inwardly projecting head supporting means carried by said rim, a head seated thereon, said rim having an inwardly opening annular grooved portion and a detachable reenforcing locking ring seated in the grooved portion and overlapping said head, the thickness of the ring being greater than that of said rim.

2,169,521

PINEAPPLE GATHERING MACHINE

Alfred Y. Chong, Paia Maui, Territory of Hawaii

Application May 13, 1938, Serial No. 207,814
2 Claims. (Cl. 198—79)



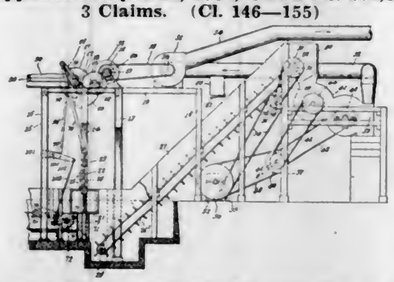
1. A gathering machine of the character described comprising a frame, wheels for the frame, a conveyor inclinedly mounted at the rear portion of the frame, means for feeding picked pineapples inwardly from the sides of the machine to the conveyor, said means for feeding picked articles to the inclined conveyor consisting of horizontal conveyors extending inwardly from the sides of the frame and terminating at the lower end of the inclined conveyor, a pan shaped structure at the lower end of the conveyor to which the inwardly extending conveyors extend, said pan having inclined end portions and a prong formed bottom.

2,169,522

CANE CLEANING DEVICE

Carl F. Dahlberg, New Orleans, and Joseph J. Munson, Houma, La.

Application April 11, 1938, Serial No. 201,440
3 Claims. (Cl. 146—155)



1. In a device of the kind described, a path of movement for cane and entrained material including a carrier, a table extending off the delivery end of said carrier, an elevator pit extending off the end of the table at the other side of said carrier, an elevator for raising the cut cane out of said pit, a vertically reciprocating knife device disposed above said table, means wholly above the knife device for vertically reciprocating the same, intermittent means associated with the delivery end of said carrier for imparting step by step movement to the carrier, actuating means for said intermittent means located wholly above said carrier, said knife operating means and said carrier actuating means comprising in common a platform mounted remotely above said carrier and

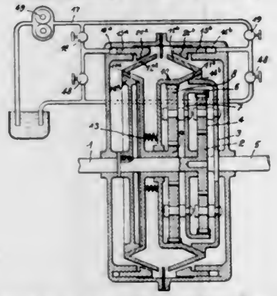
table, a shaft journaled on said platform, means for rotating said shaft, a counter-weighted arm on said shaft, a link connecting said arm with the knife device at the upper portion of the latter, a cam on said shaft, a lever pivoted on said platform and having an end portion riding on said cam and raised and lowered thereby, a link connected to said lever, a short rock arm connected to said link, a long rock arm moved by said short rock arm, and a link connection between said long rock arm and said intermittent drive means.

2,169,523

PLANETARY TRANSMISSION SYSTEM

Gaston Fleischel, Bieneau, France

Application February 4, 1936, Serial No. 62,383
In France December 26, 1935
11 Claims. (Cl. 74—270)



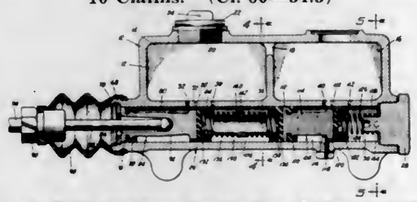
1. A planetary gearing system for connecting two shafts comprising a principal planetary train and an auxiliary planetary train each comprising three elements, means permanently connecting elements of the principal train one to each of said shafts, two elements of the auxiliary train being rotatable with respect to said shafts, means connecting the third element of the principal train to one element of the auxiliary train, and means to control the other two elements of the auxiliary train, said last connecting means during operation comprising the only fixed operative connection between said principal train and any element of said auxiliary train.

2,169,524

FLUID-PRESSURE-PRODUCING DEVICE

Owen H. Fowler, Detroit, Mich., assignor to Hydraulic Brake Company, Detroit, Mich., a corporation of California

Application December 18, 1937, Serial No. 180,627
10 Claims. (Cl. 60—54.5)



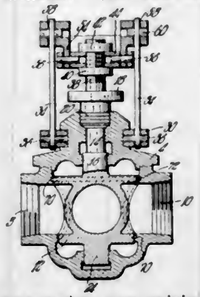
1. A fluid pressure producing device comprising a reservoir having two compartments, a cylinder having ports communicating with the respective compartments and spaced discharge ports, a piston reciprocable in the cylinder, a floating piston in the cylinder between the discharge ports, a spring interposed between the piston and the floating piston, and a sleeve supported on the spring.

2,169,525

VALVE MANUFACTURE

David D. Goldberg, Springfield, Mass., assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass., a corporation of Massachusetts

Application October 20, 1937, Serial No. 170,000
2 Claims. (Cl. 251—93)



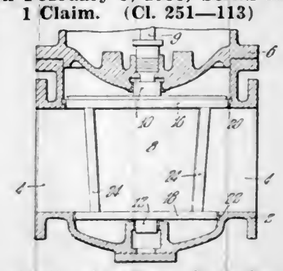
2. A valve apparatus comprising in combination, a body having a plug bore and a chamber, a plug reciprocable in said bore having a part reciprocable in said chamber, channel means associated with the coacting surfaces of said plug and body, lubricant supplying means, and connections between said means and said chamber and between said channel means and chamber, all adapted and arranged whereby as said part of the plug moves in said chamber in one direction lubricant is fed to said chamber and when said part moves in an opposite direction lubricant is fed from said chamber to said channel means.

2,169,526

VALVE

David D. Goldberg, Springfield, Mass., assignor to Chapman Valve Manufacturing Company, Indian Orchard, Mass., a corporation of Massachusetts

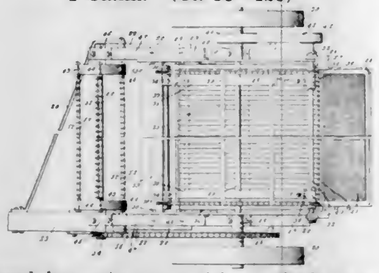
Application February 9, 1938, Serial No. 189,622
1 Claim. (Cl. 251—113)



The combination in a cone plug valve of, a body having inlet and outlet ports and an intersecting plug bore, a plug disposed in said bore having a passageway therethrough and adapted to reciprocate up and down in the body between seated and non-seated positions and to rotate in the body between open, closed, and intermediate positions, a raised seat member extending horizontally along both the upper and lower ends of the outside of said plug, a raised seat member extending horizontally along both the upper and lower ends of the inside of said body adapted to be engaged by said horizontal seat member on the plug when the latter is in any one of its seated positions, a set of unconnected raised seat members extending vertically on the outside of said plug, one being disposed adjacent each side of the opposite sides of said passageway, and a set of

unconnected raised seat members extending vertically on the inside of said body, one being disposed adjacent each side of each port and arranged so that each one of the raised seat members on the plug engages a certain one of the raised seat members on the body when the plug is in open seated position and engages a certain other one when the plug is in closed seated position.

2,169,527
SEED HARVESTER
James F. Haynes, Murfreesboro, Tenn.
Application November 30, 1936, Serial No. 113,508
1 Claim. (Cl. 56—126)



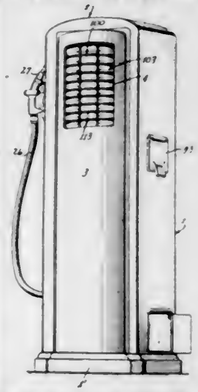
A seed harvester comprising a body open at the front and having vertical side walls and a bottom wall forming a container, an upwardly and rearwardly inclined screen in the body formed of parallel slats extending longitudinally of the body, an endless conveyor in the body having a lower reach riding upwardly upon the screen, means for supporting the open front end of the body above the ground, a seed collecting trough disposed transversely of the bottom of the front end of the body and communicating with the lower end of the conveyor, bars pivoted intermediate their ends to respective sides of the body, a beater drum rotatably mounted on the outer ends of the bars in advance of the body, there being an arcuate series of openings in each side of the body concentric with the pivots of the bars, adjusting bolts passed selectively through the openings and the bars for regulating the height of the drum above the ground, beater chains secured to the drum, and means for rotating the drum to swing the chains in a direction to knock seeds from plants into the collecting trough and on to the conveyor.

2,169,528
PRESS-STITCHER SEWING MACHINE
William Heffron, Bronx, N. Y.
Application September 19, 1938, Serial No. 230,605
9 Claims. (Cl. 112—169)



1. A press-stitcher sewing machine, comprising a substantially U-shaped casing adapted to be engaged in one's hand with the arms thereof extended horizontally and one's thumb or other finger at the top, cloth feeder means mounted in the bottom arm of said casing and extendable through the top face thereof, pressure foot means mounted on the top arm of said casing and acting against said cloth feeder means, a needle bar means mounted through the top arm of said casing and supporting a needle engageable through apertures in the pressure foot and feeder and having an upwardly extending portion, a member mounted upon the end of said upwardly extending portion and upon which one's thumb may be engaged for urging said needle bar downwards to engage said needle through the apertures in said pressure foot and feeder, a resilient means for returning said needle bar to its normal position when the pressure on said member is released, a block mounted in the bottom arm, a shaft rotative through said block, a looper wheel mounted on said shaft in a position to be cooperative with said needle, a flywheel mounted on the rear end of said shaft, an eccentric rod connected with said flywheel, a pivotally mounted lever connected with said rod and with said needle bar, thread holding and guiding means, and a thread puller synchronized with said needle bar.

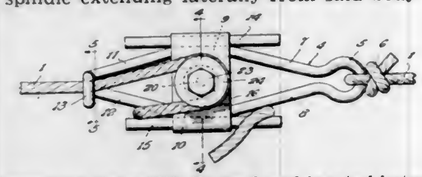
2,169,529
DISPENSING APPARATUS FOR FILLING STATIONS
Donald D. Hogarth, Los Angeles, Calif.
Application July 22, 1938, Serial No. 220,695
8 Claims. (Cl. 221—100)



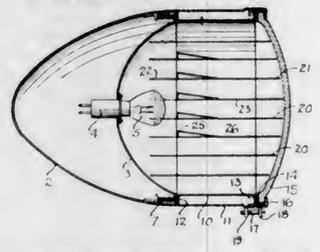
1. In a dispensing apparatus for automobile filling stations, the combination of a substantially upright housing, a reservoir for the liquid fuel supported at an elevated point on the housing, a supply pipe line leading up through the housing substantially on the central vertical axis thereof, and having a removable neck therein adjacent the lower end of the housing with couplings for connecting the same into the supply line, a bushing carried on the said neck, a hose reel mounted for rotation on the said bushing, a hose wrapped on the said reel, said housing having an opening through which the said hose may be pulled, said bushing having a fluid duct therein, means for connecting said fluid duct with the hose on the reel, and a coil spring disposed around the bushing and connecting with the reel for rotating the same after the hose has been extended, to retrieve the hose.

2,169,530
CLOTHESLINE TIGHTENER
Oliver A. Huberty, Lakewood, Ohio
Application April 25, 1938, Serial No. 204,217
6 Claims. (Cl. 24—130)

4. A clothesline tightener comprising an elongated body having one end adapted to have a clothesline or mounting member secured thereto and its other end provided with a line-engaging guide, upper and lower jaws intermediate the length of said body disposed at opposite sides of the body and constituting front and rear jaws, a spindle extending laterally from said body intermediate the width thereof and located between the jaws, and a pulley wheel rotatably mounted about said spindle.



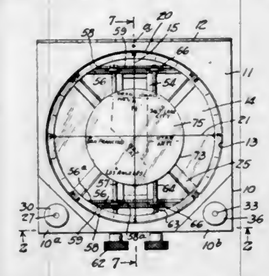
2,169,531
HEADLIGHT CONSTRUCTION
Howard C. Jennings, Lufkin, Tex., assignor of forty per cent to James G. Donovan, Houston, Tex.
Application July 12, 1937, Serial No. 153,091
1 Claim. (Cl. 240—48.4)



An antiglare attachment for a headlight having a reflector provided with a source of light at its focal point and a lens at the forward end of the reflector, said attachment comprising a frame, means for resiliently clamping the frame between the reflector and the lens, a plurality of thin plates having reflecting lower surfaces and non-reflecting upper surfaces, said plates being fixed to the frame and extending transversely thereof in vertically spaced relation, said plates extending from the inner face of the lens rearwardly to a vertical plane through the light source and contoured to fit closely the inner surface of the reflector, the inner ends of the plates adjacent the light source being provided with cut-outs to accommodate the light source, and upwardly thickened portions on some of said plates adjacent the light source to reduce the amount of direct radiation diagonally outwardly between the plates.

2,169,532
POSITION-LOCATING APPARATUS
Roy E. Jensen, Topanga Canyon, Calif., assignor of one-fourth to Carl Edwards, West Hollywood, Calif., and one-fourth to Manuel L. Murrell, Santa Monica, Calif.
Application August 20, 1937, Serial No. 160,081
14 Claims. (Cl. 250—11)

1. The combination, with a compass and a plurality of radio receivers, respectively provided with fixed and rotary antennae having directional characteristics; of a map of the territory in which the location of said receivers is unknown; means mounting said map for rotation to change its relationship to the points of the compass, and for movements transversely relative to its axis of rotation, in two directions at a right angle to each other; means defining intersectable lines of direction, one of which is in fixed relationship to the fixed antenna, and the other of which is rotary; means for rotating the map to establish the fixed line of direction thereon in correspondence with the compass direction from which the signal of a known broadcasting station is received at maximum volume by the receiver having the fixed antenna; means by which the map can be adjusted transversely in one of its two directions for the fixed line of direction to pass through the location of said broadcasting station on the map;



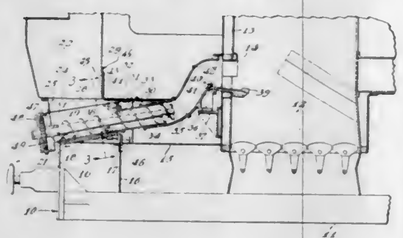
means adapted to co-act with the receiver having the rotary antenna, and by which the rotary line of direction can be rotated to correspond in compass direction to that of a signal from a second known broadcasting station when received at maximum volume on the rotary antenna; and means by which the map can be adjusted transversely in the other of its two directions, for the rotary line of direction to pass through the location of the second said broadcasting station on the map.

2,169,533
MICROMETER LEVELING DEVICE
John B. Kasten, Fairfield, Ala.
Application May 18, 1938, Serial No. 208,706
8 Claims. (Cl. 33—46)



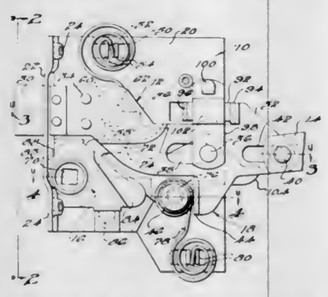
2. A device of the character described comprising a base block, a bubble-indicator secured thereto whose longitudinal axis in its normal operative position coincides with a truly horizontal plane, a standard secured to the base with its vertical axis perpendicular to said indicator, a micrometer, means slidably engaging the standard and having a portion for holding the micrometer parallel thereto, a target-carrying rod supported by the micrometer, and guide means for the rod slidably supported by said standard.

2,169,534
LOCOMOTIVE STOKER
Charles Marie Stein, Paris, France, assignor to The Standard Stoker Company, Inc., New York, N. Y., a corporation of Delaware
Application July 14, 1936, Serial No. 90,477
3 Claims. (Cl. 110—101)



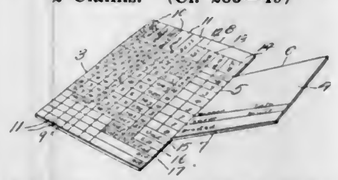
1. In a locomotive having a firebox provided with a backwall having a firing opening therethrough and a cab deck extending rearwardly from the backwall and a fuel bin supported on the rearward end of the cab deck and spaced from said backwall, a trough detachably mounted on the rearward end of the cab deck for receiving fuel by gravity from said fuel bin, a conduit extending forwardly from said trough to said firing opening, conveying means in said trough and conduit for advancing fuel therethrough to the firebox, an engine for driving said conveying means mounted at one side of said trough below the fuel bin, a gear casing at the rear of and formed with said trough and gearing in said casing operatively connecting said engine with the conveying means, said trough and gear casing being separable from said bin and removable rearwardly from the rearward end of the locomotive independently of movement of said bin.

2,169,535
LOCK
Rollo Marple, Jackson, Mich., assignor to Hancock Manufacturing Company, Jackson, Mich., a corporation of Michigan
Application August 19, 1937, Serial No. 159,940
10 Claims. (Cl. 292—165)



1. In a device of the class described, a movable bolt, means urging said bolt to a projected position, a retracting means adapted to be moved in one direction to retract said bolt, means limiting movement of said retracting means in the other direction so as to render said retracting means effective as a limit stop to the projecting movement of said bolt, and a relatively compressible buffer positioned for engagement by the bolt and serving to cushion final projecting movements thereof, said buffer being engageable by the bolt before the bolt reaches the limit afforded by the retracting means, and said buffer being sufficiently compressible to enable said bolt to travel to said limit afforded by said retracting means.

2,169,536
SCORE CARD
Charles E. Morris, Hampton, Va.
Application April 19, 1938, Serial No. 202,985
2 Claims. (Cl. 283—49)



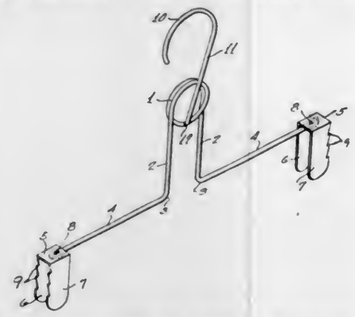
1. A golf score card comprising a body member having a plurality of vertically disposed scoring columns adjacent columns of indicia, heading spaces on the body member above the columns, totaling spaces on the body member below the columns, an extension member carried by one side of the body member and adapted to be folded thereon, said extension member on the outside thereof having vertical columns for indicia and scoring which register with the corresponding columns on the body member when the extension member is folded on the body member, said extension member having its ends terminating in inwardly spaced relation to the ends of the body member and proportioned whereby when it is folded onto the body member the heading indicia and column totaling spaces of the body member will register with the columns on the extension member.

2,169,537
MANUFACTURE OF FILMS
Armin Ossenbrunner and Max Hagedorn, Dessau, Anhalt, and Gustav Wilmanns, Wolfen, Kreis Bitterfeld, Germany, assignors, by mesne assignments, to Agfa Ansco Corporation, Binghamton, N. Y., a corporation of Delaware
No Drawing. Application April 8, 1937, Serial No. 135,814. In Germany March 4, 1933
8 Claims. (Cl. 106—40)

5. A composition of matter containing cellulose acetate dissolved in a solvent mixture consisting of up to 40 per cent of a higher homolog of ethyl alcohol, said homolog containing in its molecule no more than 5 carbon atoms, methylene chloride and a chlorinated hydrocarbon boiling higher than methylene chloride, but lower than the alcohol, said cellulose acetate solution being capable of being cast to form clear films.

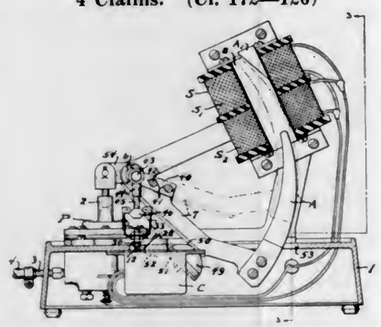
2,169,538
GARMENT HANGER
John V. Rowan, University City, Mo.
Application October 6, 1938, Serial No. 233,562
3 Claims. (Cl. 223—95)

1. A garment hanger comprising a main body portion having opposed portions movable toward and from each other, a loop midway between said opposed portions and formed integral therewith, a hook member fixedly secured to said loop at the lower portion thereof, garment-engaging elements at the outer ends of said opposed portions, said main body portion being capable of being retracted to permit said garment-engaging elements to be introduced into the legs of a pair of trousers, said main body portion being possessed of resiliency to permit said garment-engaging elements to be moved away from each



other and into engaging relation with the trouser legs, and said garment-engaging elements being provided with teeth at the edges where they engage the trouser legs.

2,169,539
ELECTRIC MOTOR
Joseph Shebol, Syracuse, N. Y.
Application February 20, 1937, Serial No. 126,923
4 Claims. (Cl. 172—126)

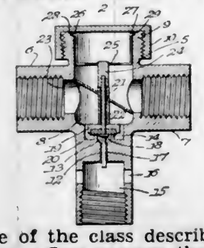


1. An electric motor of the class described, comprising an armature bodily oscillatable about a fixed center, electro-magnetic means adapted to establish a magnetic field acting to swing the armature about its center, means for periodically energizing and deenergizing said electro-magnetic means whereby to create a sustained oscillation of said armature, and means for imparting the kinetic energy of said armature to augment the pull of the electro-magnetic means during oscillation of the armature, said last named means comprising resilient buffer means cooperatively arranged to impart rebound motion to said armature.

2,169,540
PURIFICATION OF MANGANESE SULPHATE SOLUTIONS
Stephen M. Shelton, Reno, Nev.
No Drawing. Application November 19, 1937, Serial No. 175,538
12 Claims. (Cl. 204—1)

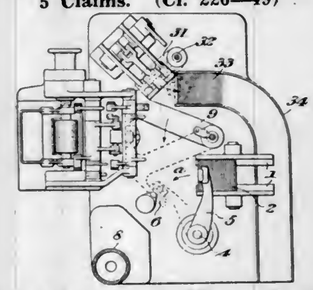
1. In a process for the electrodeposition of metallic manganese from an aqueous manganese sulphate solution, the step of purifying the solution prior to electrolysis by removing nickel and cobalt therefrom, which comprises adding to the solution a xanthate.

2,169,541
PRIMING DEVICE
William B. Smith, Washington, D. C.
Application November 26, 1937, Serial No. 176,762
12 Claims. (Cl. 182—12)



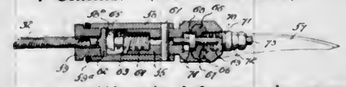
1. A device of the class described comprising a body having a flow passage therethrough and an outlet communicating with said passage, a valve member for controlling said outlet, and means for actuating said valve member comprising a bodily reciprocable member connected to the latter and having an impingement surface oblique to the line of flow through said passage and to the line of reciprocation of said reciprocable member.

2,169,542
METHOD OF FILLING AND SEALING FLAT BAGS
Bernhard Steinkemper, Karlsruhe, Baden, Germany
Application November 23, 1937, Serial No. 176,129
In Germany November 25, 1936
5 Claims. (Cl. 226—49)



1. In an apparatus for filling and sealing flat bags, means for extracting the bags from a stack, opening them and conducting them to the filling point in the open condition, and means including a swingable T-shaped gripper having a nipper on each of the arms of the T of which one nipper engages the bags and conducts them from the filling point to a gumming, folding and sealing point, and the other nipper conveying bags which at the gumming point have been furnished with adhesive and folded to a pressing point.

2,169,543
ROTARY CLEANER FOR SEWERS AND FLUES
Michael Joseph Sullivan, Springfield, Ohio
Application October 13, 1938, Serial No. 234,856
7 Claims. (Cl. 15—104.30)



2. A rotary cutting tool for use in connection with the flexible shaft of an apparatus for dislodging obstructions in pipes and other conduits, comprising a head and body portion rigidly connected together, knife blades attached to the

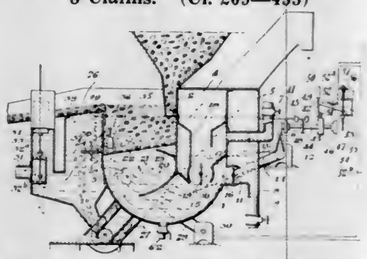
head, a sleeve in which the body portion is slidable, a spring operatively interposed between the sleeve and body portion, and means for connecting the flexible shaft to the sleeve including a nipple threaded in the outer end of the sleeve, and an element rigidly secured to the flexible shaft and interposed between the nipple and sleeve for frictional engagement of the parts to control the operation of the cutting tool.

7. A rotary cutting tool for use in connection with an apparatus for dislodging obstructions in pipes and conduits, comprising a body portion having a cutter head, knife blades pivoted to the cutter head by pins fixed to said blades and rotatably journaled in said head, shoulders formed on opposite sides of the pins, an adjustable collar bearing against the shoulder at one side of each pivot pin for limiting the outward movement of the knife blades with respect to each other, and a spring bearing against the shoulder at the other side of each pivot pin for yieldably urging said blades away from each other; together with a sleeve operatively associated with the aforementioned body portion, one having a slot inclined to the longitudinal axis of the body portion and the other having a pin extending into said slot, a spring operatively interposed between the sleeve and body portion, and means for connecting the end of the flexible shaft to the sleeve.

2,169,544

METHOD AND APPARATUS FOR SEPARATING MATERIAL INTO CONSTITUENTS OF DIFFERENT SPECIFIC GRAVITY

Gustave Andre Vissac, Calgary, Alberta, Canada
Application March 16, 1936, Serial No. 69,187
8 Claims. (Cl. 209—455)



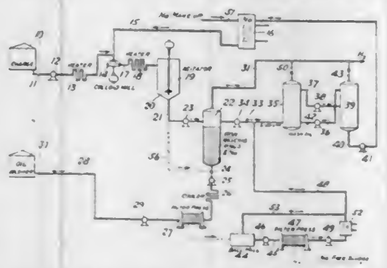
1. A jig comprising a hutch, a screen over the hutch, a pressure tank, means for continuously forcing water into said tank, a vacuum tank, means for continuously withdrawing water from said vacuum tank, an opening below said screen from said hutch to each of said tanks, means for periodically and substantially alternately closing said openings to cause surges of water in said hutch, and a swingable plate freely hung in the hutch in the path of movement of any water passing back and forth between the screen and the openings from the hutch to the pressure and vacuum tanks and on an axis of pivotal movement transverse to the path of the water, said plate being adapted evenly to distribute the flow of water over the screen during one surge thereof and to swing back to permit the free movement of water during the return surge thereof.

2,169,545

LUBRICATING OIL

Richard S. Vose, Ridley Park, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application July 17, 1935, Serial No. 31,824
9 Claims. (Cl. 196—151)

1. A residual petroleum oil produced by distilling from the crude gas oil and lighter constituents and which contains and from which can be produced a substantially full range of lubricating oil constituents varying from a distillate having a flash point not over 300° F. and a fire point not over 350° F. to a distillate having a



flash point not less than 525° F. and a fire point not less than 600° F., characterized by the fact that its organic acidity as tested by the A. S. T. M. method does not exceed two-hundredths neutralization number, its Conradson carbon content is less than four-tenths of one per cent. and its Sligh oxidation test is zero.

2,169,546

FIXING DYESTUFFS ON SUBSTRATA

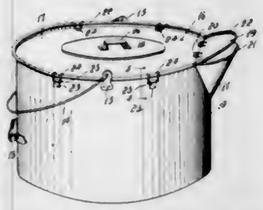
Gustav Widmer, Basel, and Robert Haller, Albert Landolt, and Arthur Schürch, Riehen, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application August 24, 1937, Serial No. 160,726. In Switzerland September 17, 1936
8 Claims. (Cl. 8—29)

1. A process for the production of colored materials comprising applying a soluble dyestuff to the material and affixing the said dyestuff by forming a hardened condensation product of 2.4.6-triamino-1.3.5-triazine and formaldehyde on the material, said condensation product being formed on said material at any stage of the coloring process.

2,169,547

COOKING KETTLE

Valeria Wilkowski Walz, Perham, Minn.
Application January 28, 1937, Serial No. 122,841
1 Claim. (Cl. 53—1)

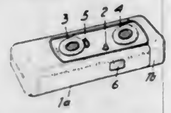


In combination with a cooking kettle or pot provided with a spout; a cover comprising an outer section adapted to fit the edge of said kettle and having a cylindrical opening in its center into which a plurality of radially disposed, spaced slots, open, a member hinged to said section to cover the spout; and an inner section having an annular depending flange, spaced from its edge, to extend into the opening in the outer section, and lugs projecting outwardly from the lower part of said flange to engage the underside of the outer section to connect the sections, said inner section being adapted to be turned on the outer section to aline the lugs and slots to allow the lugs to move through the slots to disengage the sections, and a handle attached to the inner section for removing it or the cover as a unit.

2,169,548

ROLL FILM CAMERA

Walter Zapp, Riga, Latvia, assignor to Valsts Elektrotechnika Fabrika, Riga, Latvia, a company of Latvia
Application December 6, 1937, Serial No. 178,389
In Finland December 22, 1936
5 Claims. (Cl. 95—31)



1. A photographic apparatus for use of roll films comprising, in combination, a casing composed of two bodies telescopically reciprocable rectilinearly with respect to each other to extend and shut the casing; a lens having its axis perpendicular to the direction of reciprocation of said bodies, said lens being mounted in one of said bodies; a roll film feeding mechanism arranged in the same body as the lens; a shutter mounted in the body carrying the lens and movable before the lens; a spring permanently connecting the shutter with the body not carrying the lens; a spring-pressed catch mechanism located in the same body as the lens in position to engage the shutter when the two bodies are moved into their shut position and to tension the shutter mechanism as the two bodies are moved apart; and a member secured to the body on which the shutter is permanently connected in position for engaging and operating said film feeding mechanism as the two bodies are moved together into shut position.

2,169,549

PROPAGATION OF PLANTS

Percy W. Zimmerman and Albert E. Hitchcock, Yonkers, N. Y., assignors to Boyce Thompson Institute for Plant Research, Inc., Yonkers, N. Y., a corporation of New York
No Drawing. Application March 17, 1937, Serial No. 131,371
10 Claims. (Cl. 47—58)

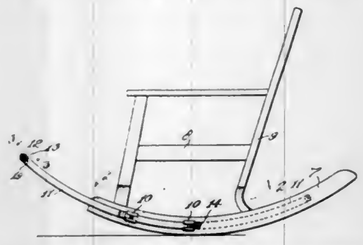
5. The improvement in propagating plants from cuttings and the like which comprises the step of inducing root-growth by subjecting the basal end of the cutting to the action of a substance of the group consisting of phenylacetic acid, salts of phenylacetic acid, and esters of phenylacetic acid.

2,169,550

ATTACHMENT FOR ROCKING CHAIRS

John H. Arends, Maplewood, N. J.
Application March 14, 1938, Serial No. 195,731
1 Claim. (Cl. 155—170)

In a rocking chair having arcuate rocking elements diverging from the rear to the front of the chair, a pair of C-shaped guide members pivotally attached to each of said rocking elements, arcuate bars slidably mounted in said guide members, each of said bars having a right angularly inwardly directed portion at the forward end thereof, means for adjustably connecting the right angled inwardly directed portion of said

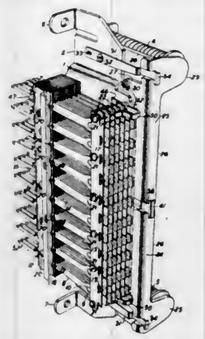


bars to provide a foot rest, and stop elements at the rear ends of said bars.

2,169,551

ELECTROMAGNET FOR SWITCHING DEVICES

Clarence I. Baker, Elizabeth, Emil C. Mueller, Jr., Cranford, and Frederic J. Redmond, Arlington, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 1, 1936, Serial No. 93,890
2 Claims. (Cl. 175—345)



1. In a multicontact relay, a substantially rectangular plate, a support at each end of said plate, a bracket in the form of a reentrant U carried by said plate, a pair of armatures pivoted on each of said supports and on said bracket, the reentrant legs of said bracket limiting the movement of each of said armatures in one direction, and a plurality of latching means secured to said plate and to said supports and engaging said armatures for holding them in position on their pivots.

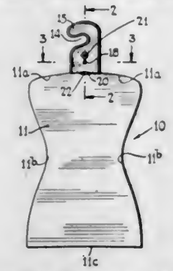
2,169,552

GARMENT DEVICE

Daniel J. Bellin, New York, N. Y.
Application May 25, 1938, Serial No. 209,963
6 Claims. (Cl. 223—68)

1. A garment device of the character described comprising a flat sheet of cardboard or similar material so designed as to have a main body portion having top, bottom and side edges and a portion narrower than said body portion, extending outwardly from said top edge, said extending portion being provided with a notch adapted to form a hook for hanging, a second layer of said cardboard material overlying said extending portion, the free adjacent edges of said extending portion and said second layer

being reinforced with metallic material, and a



manually rotatable dial mounted on said extending portion between said first and second layers.

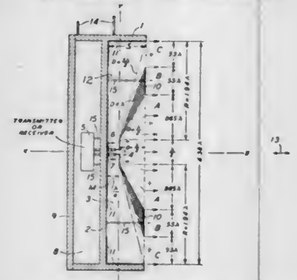
2,169,553

DIRECTIVE RADIO SYSTEM

Edmond Bruce, Red Bank, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 11, 1936, Serial No. 100,287

17 Claims. (Cl. 250—11)



1. In a radio system, a linear antenna, a flat zone reflector having a line focus equal in length to said antenna, said antenna being superimposed on said focus.

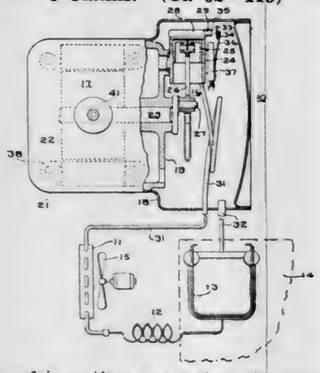
2,169,554

REFRIGERATING APPARATUS

Leslie B. M. Buchanan, Springfield, Mass., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application October 26, 1937, Serial No. 171,018

8 Claims. (Cl. 62—115)



1. In refrigerating apparatus, the combination of a condenser, an evaporator and a compressor for translating refrigerant through the condenser and evaporator, a motor for actuating the compressor, a valve for controlling the flow of refrigerant from the evaporator to the compressor which is normally closed during inactive periods of the compressor, a thermal responsive element for progressively opening the valve when heated, a heater associated with said element, and means for energizing the motor and said heater.

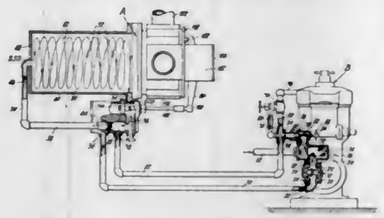
2,169,555

EXHAUST HEATER

Eben Hunter Carruthers, Seneca Falls, N. Y., assignor to Goulds Pumps, Inc., Seneca Falls, N. Y., a corporation of New York

Application May 14, 1936, Serial No. 79,627

11 Claims. (Cl. 257—2)



2. A heater for fluids comprising the combination with means for circulating the fluid, of a heat exchanger through which the fluid flows comprising a casing, means in the casing for imparting a tortuous path of circulation for the fluid flowing through the exchanger, a shiftable baffle valve disposed interiorly of the said means for controlling admission of hot gases into the said means and in heat exchange relation with fluid passing through the heat exchanger when the said baffle valve is in position for admitting gases to the heat exchanger and to by-pass the gases when the said valve is in position to block admission of gases into the said means, instrumentalities including pressure operated devices for shifting the said baffle valve, valve means for regulating the pressure operating said devices, and thermostatic means for controlling said valve means in response to temperature changes of predetermined amounts in said fluid.

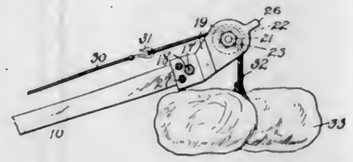
2,169,556

ATTACHMENT FOR BOOMS

George J. Clark, Haworth, N. J.

Application April 30, 1938, Serial No. 205,144

4 Claims. (Cl. 254—190)



1. An attachment for booms comprising a fixture having a socket on one end for receiving the end of a boom, the fixture having divergent upwardly inclined walls extending therefrom, a guard bridging the walls, the walls also serving as bearings and a wide sheave supported in the bearings.

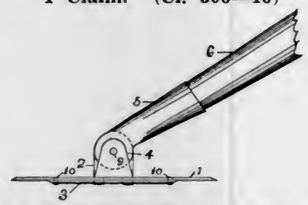
2,169,557

HAND HOE

Charles E. Curtiss, Clinton, Wis.; Rock County Savings and Trust Company executor of estate of said Curtiss, deceased

Application August 10, 1936, Serial No. 95,202

1 Claim. (Cl. 306—16)



In an implement of the character described, in combination, a blade having a tang fixed centrally of said blade, a coacting ferrule having a bifurcated extension embracing said tang, auxiliary members having one straight edge in contact with the upper face of said blade, said auxiliary members situated one on either side of said extension in contact therewith, said tang, extension and auxiliary members having registering apertures for the reception of a clamping bolt, a clamping bolt within said apertures and a nut upon said clamping bolt to force the auxiliary members, extension and tang into intimate frictional contact as set forth.

2,169,558

STIFFENING FOR BOX TOES

Harry Robert Dittmar, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application July 17, 1937, Serial No. 154,207

23 Claims. (Cl. 12—146)

1. A molded stiffened member for shoes comprising an absorptive base impregnated with a polymeric compound selected from the group consisting of acrylic acid, esters of acrylic acid, methacrylic acid, interpolymers and derivatives thereof.

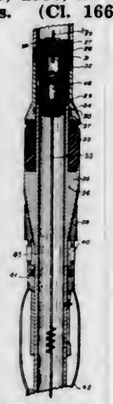
2,169,559

FORMATION TESTER

Erle P. Halliburton, Los Angeles, Calif., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.

Application July 6, 1937, Serial No. 151,996

5 Claims. (Cl. 166—1)



1. Apparatus for testing the formation of a cased well comprising, in combination, a testing tool and a casing perforating tool connected together to provide an assembly adapted to be lowered into the well as a unit, said testing tool having a valve therein, and said perforating tool having means associated therewith operable in response to the opening of the valve in the testing tool for operating the perforating tool.

2,169,560

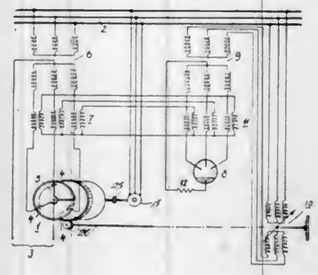
DEVICE FOR THE CONVERSION OF ELECTRIC CURRENTS OR POTENTIALS BY MEANS OF PERIODICALLY ACTUATED SWITCHING CONTACTS

Erwin Janetschke, Berlin-Charlottenburg, Germany, assignor to Siemens-Schuckertwerke Aktiengesellschaft, Berlin-Siemensstadt, Germany, a corporation of Germany

Application February 20, 1937, Serial No. 126,892

In Germany February 21, 1936

22 Claims. (Cl. 175—364)



1. A current or potential converting device for transferring energy between two electric circuits of different current or potential character, comprising a mechanical switching device, a transformer arrangement having its primary windings series connected with said switching device, said series connection being disposed to connect said two circuits, means for periodically actuating said switching device in synchronism with the current to be interrupted by said device, a biasing circuit connected with the secondary windings of said transformer arrangement, and means connected in said biasing circuit for periodically varying the resistance of said biasing circuit in synchronism with said switching device in order to increase the inductance of said primary windings at the opening periods of said device.

2,169,561

AUTOMATIC BLEEDER

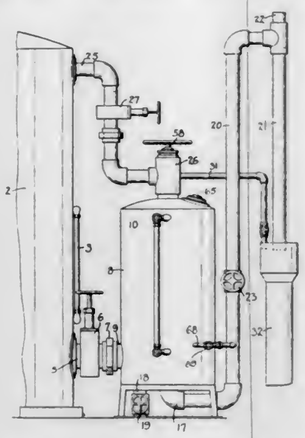
Leslie A. Layne and Harold C. Block, Houston, Tex.; said Block assignor to said Layne

Application March 31, 1936, Serial No. 71,976

1 Claim. (Cl. 137—68)

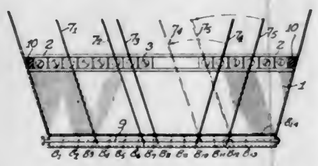
A control device for the discharge of the heavier of two liquids from a container comprising a valve for the discharge outlet, a housing about said valve forming a chamber, an inlet to said housing for the heavier liquid, a breather connection between the container and the housing for the lighter liquid, a float in said chamber, a valve stem connected to said valve and said float, a standpipe portion on said discharge beyond said valve to contain liquid and create a back pressure on said valve so that said float will vary the control movement of said valve in accordance with

the specific gravity of the liquid and independent of the suction to open said valve, and a by-pass



between said housing and standpipe to balance the pressure on said valve.

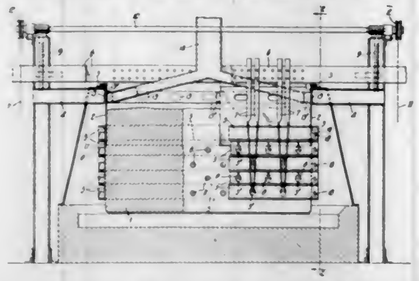
2,169,562
DRAWER OF A VERTICAL TYPE FOR INDEXING AND CLASSIFYING
Luigi Lombardini, Turin, Italy
Application January 25, 1937, Serial No. 122,177
In Italy January 27, 1936
2 Claims. (Cl. 129—16)



2. In a filing drawer having a series of partitions, the combination of guide means, distancing elements slidable in said guide means, said distancing elements comprising blocks which are engaged along their sides, top and bottom by the guide means so as to permit sliding movement of said blocks only, and slotted abutments projecting horizontally from a side of said blocks, said slots receiving the side walls of the drawer partitions.

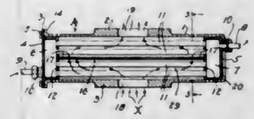
2,169,563
ELECTRODE AND ITS SUSPENSION
Jean Louis Légeron, Riouperoux, France, assignor to Det norske Aktieselskab for Electrokemisk Industri, Oslo, Norway
Application July 1, 1937, Serial No. 151,370
In Norway July 8, 1936
10 Claims. (Cl. 13—9)

1. An electrode casing for a selfbaking electrode, which comprises a mold for the electrode and which is formed by a series of metallic beams arranged in rows the beam in each row being superimposed one on the other in planes perpendicular to the axis of the electrode and placed with their inner faces flush and their side edges contiguous throughout the portion of the beams contacting with the electrode, the arrangement being such as to form in effect a continuous unbroken inner surface at the beam joints, the beams being removably attached one with the other by suitable means such that as the lower



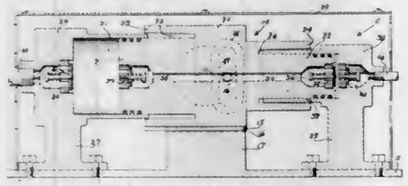
beam or beams of the series approach the melt the said lower beam or beams may be detached from the said casing at the bottom thereof and reattached thereto at the top thereof.

2,169,564
VAPORIZED FUEL HEATER FOR GAS ENGINES
Laurence C. Maher, Asbury Park, N. J.
Application May 27, 1936, Serial No. 81,982
2 Claims. (Cl. 257—236)



1. A fuel heat-exchanger comprising in combination a chambered housing having a plurality of parallel ducts therein for conducting a heated fluid therethrough, inlet and outlet ports in said housing for conducting a stream of vaporized fuel therethrough in contact with said ducts, a flow directing baffle located in said chamber parallel to said ducts to redirect the ingoing fuel from said inlet to said outlet and spaced perforations at opposite ends of said baffle.

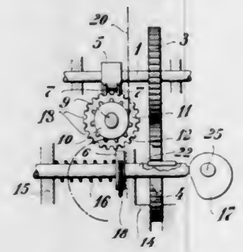
2,169,565
MULTISTAGE COMPRESSOR
Pietro Maniscalco, Toledo, Ohio
Application March 4, 1938, Serial No. 193,967
7 Claims. (Cl. 230—192)



1. A compressor comprising a base having an integral block with a guide track thereon, a piston unit including a body with an integral guide rib thereunder movable along said track and a pair of integral pistons extending in opposite directions from said body, a channel extending thru said body and pistons and provided with check valve means therein, a pair of standards mounted on said base having a pair of cylinders thereon consisting each of a cylindrical member integral on its standard and fitting upon said

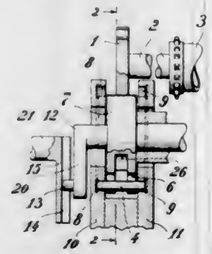
pistons, one standard having a valved inlet and the other having a valved outlet thereon, and operating means for reciprocating the piston body on the guide tracks with the pistons moving within the cylinders.

2,169,566
MOTION PICTURE FILM DRIVE
Erwin May, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany
Application January 21, 1938, Serial No. 186,026
5 Claims. (Cl. 74—436)



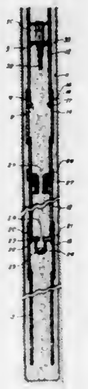
1. In a motion picture machine, a film transport roller for operating the film, said roller having a period of rest while the film is projected and a period of rotation to shift the film between projection periods, a gear wheel in fixed relation to said roller, means to engage and hold the gear wheel and film transport roller immovable during projection periods, means for moving the holding means out of engagement with the gear wheel, longitudinally shiftable means for engaging the gear wheel to advance the film between projection periods when the holding means is out of engagement with said gear wheel, and means for actuating the shiftable means.

2,169,567
GENEVA MOVEMENT FOR MOTION PICTURE PROJECTION
Erwin May, Wetzlar, Germany, assignor to Ernst Leitz, G. m. b. H., Wetzlar, Germany
Application March 15, 1938, Serial No. 195,982
In Germany March 30, 1937
1 Claim. (Cl. 74—436)



A Geneva movement for motion picture projection comprising two fixed spaced plates having opposed symmetrical cam grooves, a pin extending between said plates to move in said cam grooves, a drive shaft extending through said plates, a pin wheel mounted on said drive shaft in the space between said plates, means in the pin wheel engaging said pin to rotate the same in the said cam grooves, a star wheel in cooperative relation with the said pin and pin wheel, said cam grooves including flattened portions for guiding said pin radially in the pin wheel when the pin engages the star wheel, a driving shaft in eccentric relation to the drive shaft and cooperating means on the said two shafts for driving the drive shaft at a speed which is accelerated as the pin is moved towards the star wheel.

2,169,568
APPARATUS FOR MULTIPLE STAGE CEMENTING
O. L. Morrisett, Duncan, Okla., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application April 2, 1938, Serial No. 199,575
5 Claims. (Cl. 166—1)



1. Apparatus for use in the multiple stage cementing of a casing in a well, including in combination with the casing, an upper and a lower unit made up with the casing at spaced points therein, each unit having ports for discharging cement or other fluid therethrough and means normally closing said ports, a female plug releasably secured in the casing between said units, a male plug adapted to engage said female plug to cause the same to be released from the casing under the influence of fluid pressure, whereby the male and female plugs may move downwardly to contact and move the closing means in said lower unit to open the ports in said lower unit under the influence of fluid pressure, and an additional plug adapted to cooperate with the closing means in upper of said units to operate the same to uncover the ports therein under the influence of fluid pressure.

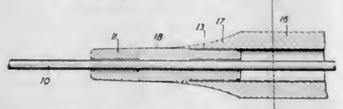
2,169,569
PLUGGING OFF BOTTOM HOLE WATER UNDER PRESSURE
Roland E. O'Donnell, Midland, Tex., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application June 3, 1938, Serial No. 211,490
6 Claims. (Cl. 166—1)

1. The method of cementing a well under pressure which includes lowering an empty conduit sealed at the bottom into the well, filling the conduit with wash fluid after it is in position, breaking the seal at the bottom of the conduit, circulating the wash fluid downwardly through the conduit and upwardly on the outside thereof while controlling the pressure therein by regulating the amount of fluid discharged from the well,

then pumping into the conduit a quantity of cement slurry and a following fluid until the cement reaches the bottom of the conduit, again sealing the conduit at the bottom and removing the conduit from the well.

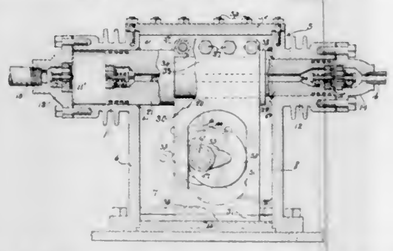


2,169,570
SEALED JOINT FOR CONDUCTORS
Victor L. Ronci, Brooklyn, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application April 23, 1936, Serial No. 75,927
14 Claims. (Cl. 174—77)



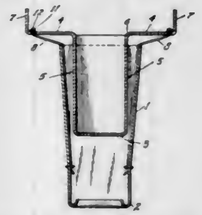
6. An insulated conductor seal for a cable connection comprising a metallic conductor, an insulating sleeve engaging said conductor, a metallic cable sheath surrounding said sleeve and conductor, concentric hermetically sealed joints between said conductor and sleeve and said sleeve and sheath, and a seal terminating member on said sleeve adjacent the sealed joint between said sleeve and sheath.

2,169,571
COMPRESSOR UNIT
Pietro Maniscalco, Toledo, Ohio
Application August 17, 1938, Serial No. 225,333
8 Claims. (Cl. 230—192)



1. A compressor comprising a casing which is substantially sealed and has cylinder means extending integral from its wall means and opening into the casing, cap means with fluid conduit means on the outer ends of the cylinder means to close the same, piston means reciprocable in the cylinder means and in the casing, a bottom member on the casing having a guide channel therein provided with an oil groove slanting across its face, an operating post in the casing engaging and actuating said piston means and having a foot portion slidable in said guide channel, driving means entering the casing for driving said operating member, and splash fingers on said driving means in the casing adapted to splash and elevate lubricant positioned in the casing.

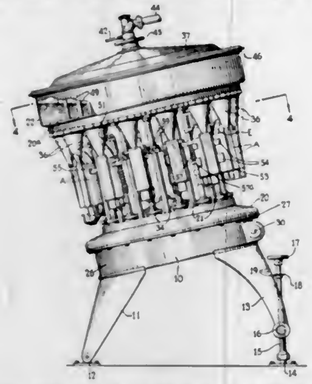
2,169,572
CIGARETTE DISPENSER
Mario Tanzi, Chicago, Ill.
Application August 4, 1938, Serial No. 223,105
3 Claims. (Cl. 206—41)



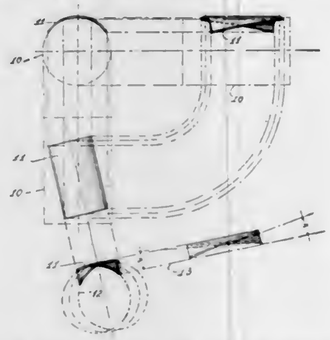
1. In a dispenser case, an outer tubular casing, generally rectangular in cross-section, an inner box of substantially the same contour in cross-section as said outer casing, slidable into and from said casing, said inner box closely fitting within said outer casing, a hinged section at one end of said inner box, flexible means joining said hinged section to the corresponding side of the inner box, a laterally projecting extension at the outer edge of said hinged section so arranged that when the box is in normal position, it forms a closure for the end of the box, and an elastic band having one end joined to said hinged end section remote from its hinged connection to the side of said inner box, the other end of said band being joined to a side of the outer casing remote from the end thereof from which the inner box is adapted to project, the said elastic band being positioned between the said casing and said box the casing being so proportioned to the box that two opposite sides of the casing closely fit the box while the other two opposing sides loosely engage the box so that a side of the outer casing may be outwardly distorted by the elastic band as the inner box is thrust out; such distortion being modifiable by light finger pressure inward on the outer casing to vary the frictional engagement of the outer casing on the inner box to control the tendency of the elastic band to return and close the box.

2,169,573
CONTAINER FILLER FOR LIQUIDS
Clarence W. Vogt, New York, N. Y., assignor, by mesne assignments, to Owens-Illinois Glass Company, Toledo, Ohio, a corporation of Ohio
Application February 27, 1936, Serial No. 65,953
8 Claims. (Cl. 226—97)

1. A filling machine including a liquid supply chamber, a measuring chamber having a filling opening movable to positions below and above the liquid level in said supply chamber, and having a valve controlled discharge at the exterior of said supply chamber, means for tilting said measuring chamber to varying degrees to vary the volume of liquid retained by the measuring chamber when the filling opening is above the liquid level in the supply chamber, and means for opening said valve control discharge when said chamber reaches a predetermined point in its movement.

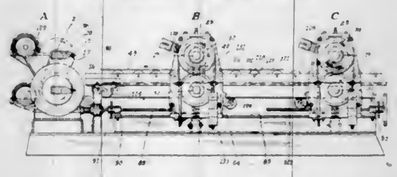


2,169,574
SAFETY RAZOR
William Wennmann, Brooklyn, N. Y.
Application December 4, 1936, Serial No. 114,162
6 Claims. (Cl. 30—48)



1. In a razor holder for double-edged blades, guard and cap members, the adjacent or interior faces of which members have a curvature substantially corresponding to a rectangularly shaped surface portion of a cylinder, disposed diagonally and symmetrically to the longitudinal center axis of the cylinder, the latter having a certain diameter, and wherein the outer face of the cap member prominently extends above its interior face, and its outer surface substantially corresponds to the curvature of a cylinder of lesser diameter, said cap member being provided with guide pins and a central threaded pin, all arranged parallel to one another and disposed in a vertical center plane passing longitudinally through the thickest and highest body portion of said cap member, a plurality of diagonally located serrations, directed in opposite directions at the sides of the outer surface of said cap member, leaving the highest or middle portion thereof smooth, both members being adapted to hold between their adjacent faces a flexible blade and to cause it to assume the curvatures of their interior faces, while the short ends of the blade are kept parallel to one another and at right angles to the vertical center plane, whereas its cutting edges are parallel with the latter, and means, formed at the ends of said members, for guarding the ends of a blade, held between them.

2,169,575
BOARD-CUTTING MACHINE
Theodore T. Youngfelt, Hinsdale, Joseph A. Besal, Chicago, and Ralph H. Hurd, Hinsdale, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application November 15, 1937, Serial No. 174,598
10 Claims. (Cl. 164—68)



5. In a board cutting machine, a series of pairs of rotary cutting knives arranged in spaced relation, means for varying the distance between the pairs of knives, a plurality of conveyor rollers adapted to convey a continuous stream of composition board between said knives, a drive chain having a reach thereof arranged to travel adjacent said rollers, and a sprocket fixed to each roller and engaging said drive chain, said rollers being removable for relocating to provide clearance for said knives.

2,169,576
METHOD OF MAKING COPPER PHOSPHATE
Charles F. Booth and Herbert J. Krase, Anniston, Ala., assignors, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware
No Drawing. Application June 18, 1936, Serial No. 85,886
5 Claims. (Cl. 204—9)

1. The process for the electrolytic production of copper phosphate comprising subjecting an aqueous electrolyte containing sodium sulphate and sodium phosphate and substantialy free of chloride and chlorate ions, to the electrolytic action of a direct current in the presence of a copper anode and removing copper phosphate from the electrolyzed solution.

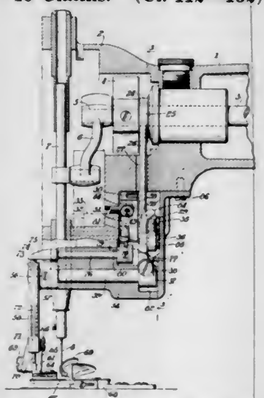
2,169,577
LIQUID COATING COMPOSITION
Theodore F. Bradley, Westfield, N. J., assignor to American Cyanamid Company, New York, N. Y., a corporation of Maine
No Drawing. Application June 27, 1936, Serial No. 87,734
7 Claims. (Cl. 134—11)

1. An air-drying, coherent film-forming coating composition comprising a solution including a fusible, hydrocarbon soluble, unoxidized and oxygen-convertible soap containing in chemical combination a metal that can exist in a state of polyvalency of at least 3 and a soap-forming fatty acid containing at least 2 carbon to carbon double bonds in the molecule, a hydrocarbon solvent for the soap and a catalytic oxidation promoter, the soap being present as the major film-forming constituent, films of said solution being convertible to substantially insoluble, substantially infusible varnish-like films through exposure to air.

2,169,578
HIGHER ALKOXYACETONITRILES
Herman A. Bruson and Rush F. McCleary, Philadelphia, Pa., assignors to The Resinous Products & Chemical Company, Philadelphia, Pa.
No Drawing. Application October 1, 1938, Serial No. 232,853
4 Claims. (Cl. 260—464)

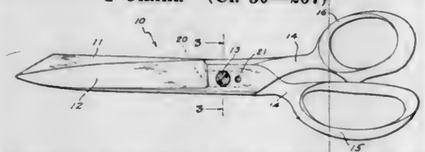
1. As a new compound, an alkoxy acetonitrile of the formula R—O—CH_2CN wherein R is an aliphatic hydrocarbon group of at least eight carbon atoms.

2,169,579
RUFFLING AND STITCHING MACHINE
Frederic M. Card, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey
Application December 20, 1938, Serial No. 246,779
19 Claims. (Cl. 112—132)



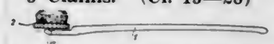
1. In a ruffling and stitching machine, in combination, a rotary actuating shaft, a ruffler-blade carrier, a reciprocatory slide-block, operative connections with said actuating shaft for reciprocating said slide-block, actuating connections with said ruffler-blade carrier dependent for effectiveness upon the path of reciprocation of said slide-block, a shiftable guideway determining the path of reciprocation of said slide-block, and means controllable at will during the operation of the machine for shifting said guideway.

2,169,580
SCISSORS AND SHEARS
John J. Conway, Bridgeport, Conn., assignor to The Acme Shear Company, Bridgeport, Conn., a corporation of Connecticut
Application February 11, 1937, Serial No. 125,233
1 Claim. (Cl. 30—267)



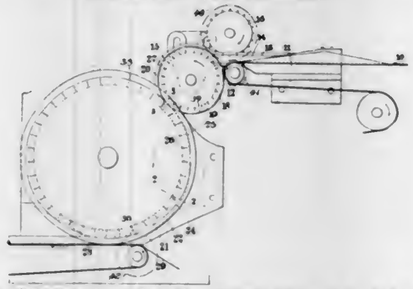
A shears comprising a pair of blades pivotally connected together and having ride portions, one of the ride portions comprising a bearing member embracing the pivot and made of an oil absorptive hard fibrous material, and said member having a bearing surface coacting with the ride portion of the other blade to retain the blades in proper operative relation to each other.

2,169,581
TOOTH BRUSH
Meguerditch Dadian, Paris, France
Application October 19, 1937, Serial No. 169,847
In Belgium November 21, 1936
3 Claims. (Cl. 15—28)



1. A rotary tooth brush comprising a handle having a socket at one end, a rigid spindle mounted in said socket substantially at right angles to the handle, a cap rotatably mounted on the spindle, a brush element formed with a disc supporting the bristles and frictionally held on said cap, the periphery of the disc projecting beyond the edges of the handle, said periphery having radially extending projections for contacting the lips of the user to rotate the brush.

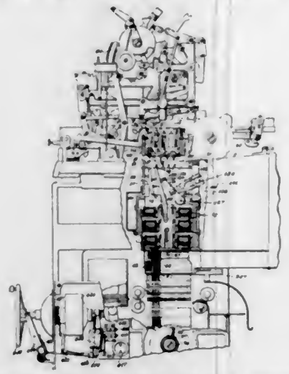
2,169,582
TOBACCO ROD FORMING METHOD AND MEANS
George Dearsley and Jack Shackleton, London, England, assignors to American Machine & Foundry Company, New York, N. Y., a corporation of New Jersey
Application August 25, 1937, Serial No. 160,810
In Great Britain August 28, 1936
5 Claims. (Cl. 131—43)



1. Mechanism for the formation of a tobacco rod or filler comprising a belt conveyor for receiving a shower of tobacco and advancing it in a stream to a transfer station, a wheel device to which the said stream is delivered at said transfer station and which acts as means for feeding said stream into a garniture mechanism including a belt conveyor moving at a lower speed than said feeding means, said wheel device being formed in part by a pair of discs spaced apart to define one dimension of the stream and aiding frictionally in its advancement, and stationary means between said discs spaced apart to define the other dimension of said stream, constituting with the discs a channel from which the stream is discharged to the slower moving conveyor and is built up within a passage formed in part by said slower moving conveyor.

2,169,583
RECORD CONTROLLED MACHINE
Lincoln M. Keefe, Springfield, Mass., assignor to Remington Rand Inc., Buffalo, N. Y., a corporation of Delaware
Application March 31, 1934, Serial No. 718,421
33 Claims. (Cl. 235—61.9)

21. In a record controlled tabulating machine in combination, sensing pins and related contact devices under control of the records, a plurality of entry receiving devices and a series of differential stops associated with each of said entry receiving devices, a positionable member included in each of said series for changing the position of a set stop in its series, a stop setting device for each of said series and an interposer for each of said positionable members, a plurality of magnetic latches each engaging one of said stop devices and one of said interposers, a restaining member for preventing the release of said inter-

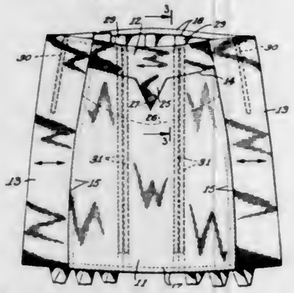


posers during the portion of the record cycle of the machine in which said stop setting device is effective and for placing said interposers under the influence of said latch during a succeeding portion of the machine cycle, and an electrical distributor in circuit with said contact devices and said magnetic latches for determining when said magnetic latches shall operate.

2,169,584
PREVENTION OF CORROSION
Gilbert A. Kelley, Toledo, Ohio, assignor to Surface Combustion Corporation, Toledo, Ohio, a corporation of New York
No Drawing. Application September 9, 1938, Serial No. 229,146
5 Claims. (Cl. 148—6)

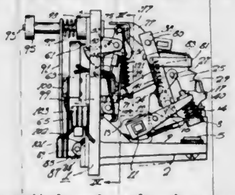
1. A method of forming a corrosion-resisting surface that comprises subjecting an alloy of iron and zinc to the action of an aqueous solution containing a chromate and a substantial concentration of a corrosive hygroscopic salt.

2,169,585
FOUNDATION GARMENT
Waldemar Kops, New York, N. Y., assignor to Kops Brothers, Inc., New York, N. Y., a corporation of New York
Application July 21, 1938, Serial No. 220,421
4 Claims. (Cl. 2—37)



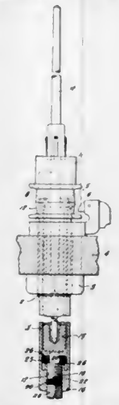
1. A foundation garment comprising a body-encircling member having a laterally elastic upper back section and a laterally inelastic lower back section adjoining and united with the upper section in the region of the waistline, said lower back section having a portion of its upper edge intermediate the ends thereof cut away to provide abruptly downwardly extending edges, said upper section having a part extending below the upper edge of the lower section and attached to said downwardly extending edges to provide adjustability in the upper portion of the lower section.

2,169,586
CIRCUIT BREAKER
Merrill G. Leonard, Sharon, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application June 26, 1936, Serial No. 87,351
27 Claims. (Cl. 200—116)



1. In a circuit breaker having contact means operable to open and closed positions, auxiliary means operable upon the occurrence of a predetermined condition, a plurality of independently movable elements, a control element responsive to predetermined conditions, at least one of said movable elements being operative upon movement of said control element to actuate said auxiliary means and at least one other of said movable elements being operative upon movement of the same said control element to cause actuation of said contact means from the closed to the open position, and means for resetting the control element moved first without causing actuation of the means actuated by the other control element.

2,169,587
SPINNING SPINDLE
George H. Magrath, Whitinsville, Mass., assignor to The Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
Application April 23, 1937, Serial No. 138,595
2 Claims. (Cl. 308—151)



1. An adjustable oil-tight spindle construction

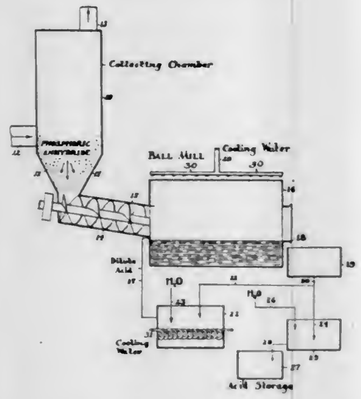
comprising a tubular member adapted to hold a fluid lubricant, said tubular member having at its lower end a threaded aperture, a bearing disposed within the tubular member and movable longitudinally thereof, said bearing being adapted rotatably to support the lower end of a blade, a screw-threaded plug disposed in said aperture with its upper end projecting into the lower end of said tubular member and supporting said bearing in substantially fixed position axially of the tubular member, means for rotating said plug so as to vary the position of said bearing axially of said tubular member, oil retaining means carried by said plug comprising a compressible gasket interposed between a pair of washers carried by the upper end of said plug, said gasket being spaced from the bearing and having its periphery engaging said inner wall of the tubular member in all positions of adjustment of said plug.

2,169,588

MANUFACTURE OF PHOSPHORIC ACID

John E. Malowan, Dayton, Ohio, assignor to Monsanto Chemical Company, a corporation of Delaware

Application December 23, 1936, Serial No. 117,257
4 Claims. (Cl. 23—165)



1. A process for manufacturing strong phosphoric acid comprising dissolving substantially dry, solid phosphoric anhydride in a phosphoric acid having a strength of from 74% to 82% P_2O_5, while maintained at a temperature of from 65° C. to 140° C.

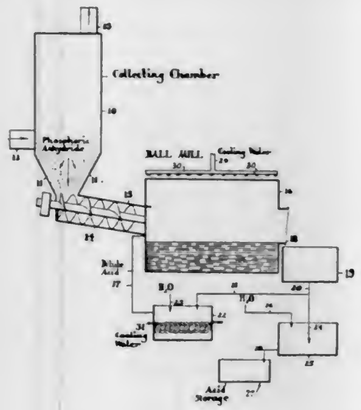
2,169,589

MANUFACTURE OF PHOSPHORIC ACID

John E. Malowan, Dayton, Ohio, assignor to Monsanto Chemical Company, a corporation of Delaware

Application December 23, 1936, Serial No. 117,258
2 Claims. (Cl. 23—165)

1. A process for manufacturing phosphoric acid in a substantially continuous manner comprising contiuously mixing together in one part of a large body of phosphoric acid of strength ranging from 90% to 100% H_3PO_4 content and at a temperature of from 45° to 100° C. whereby difficultly soluble metaphosphoric acid is dissolved substantially dry solid phosphoric anhydride and a previously cooled phosphoric acid of lower strength, withdrawing a portion of said body of phosphoric acid from a remote part of said body of acid, diluting a part thereof to produce said lower strength acid, and continuously returning to said



body of phosphoric acid the said lower strength acid and an amount of phosphoric anhydride to produce therewith 90% to 100% H_3PO_4.

2,169,590

FINISHING SEAM AND METHOD

Walter Myers, Bridgeport, Conn., assignor to The Singer Manufacturing Company, Elizabeth, N. J., a corporation of New Jersey

Application March 17, 1938, Serial No. 196,324
16 Claims. (Cl. 112—262)



1. The method of forming a finishing seam in fabric-sections having proximate margins thereof united by stitches, comprising, folding one of said fabric-sections on a line at one side of said row of stitches to overlie the united margins, folding the other fabric-section on a line at the other side of said row of stitches to underlie the united margins, and securing the fold-plies together by stitches.

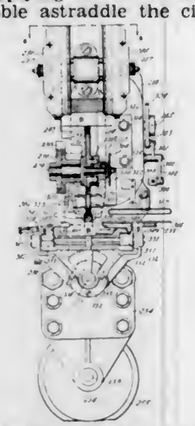
2,169,591

BANDING MECHANISM

Joseph A. Neumair, Hollis, N. Y., assignor to International Cigar Machinery Company, a corporation of New Jersey

Original application August 22, 1932, Serial No. 629,959. Divided and this application October 6, 1936, Serial No. 104,242
29 Claims. (Cl. 131—61)

1. The combination with a band magazine, of band applying devices, a rotating band carrier, having spaced projecting band-retaining parts forming a fixed part of said carrier, and means operating said carrier to withdraw a band from the magazine and carry it to said applying devices, said applying devices including a pair of folders movable astraddle the cigar to contact



the band and slide across opposite sides of the cigar to fold the band against said sides.

2,169,592

ALLOY

Arthur W. Peterson, North Attleboro, Mass., assignor to Metals & Controls Corporation, Attleboro, Mass., a corporation of Massachusetts

No Drawing. Application December 2, 1938, Serial No. 243,530
2 Claims. (Cl. 75—165)

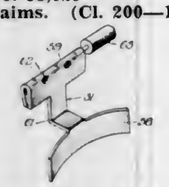
1. A gold alloy consisting of about 33 to 84% gold, 11 to 67% copper, 0.1 to 2.5% cobalt, 0.1 to 5% nickel, 2 to 12% silver, and 2 to 12% of a metal selected from the group consisting of zinc and cadmium.

2,169,593

COMBINATION TERMINAL AND CONTACT MEMBER FOR AN ELECTRIC SWITCH

Rudolf Popp, Valparaiso, Ind., assignor to McGill Manufacturing Company, Valparaiso, Ind., a corporation of Indiana

Original application August 24, 1935, Serial No. 37,657, now Patent No. 2,124,337, dated July 19, 1938. Divided and this application March 10, 1936, Serial No. 68,029
3 Claims. (Cl. 200—166)



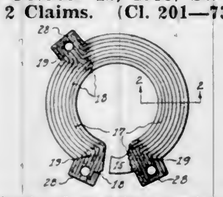
1. In an electric switch, a molded housing of insulating material having a switch mechanism carrying cavity therein, with a relatively thick side wall on at least one side of said cavity, a recess in said wall extending longitudinally thereof, with vertical side walls in said recess, a terminal member for said recess comprising a body portion having a plurality of holes punched therein, with a burr on one side and around each hole, with said body portion formed to fold over a wire conductor to frictionally retain said wire therein, and said terminal member adapted to be removably mounted in said recess with the burrs on said body portion engaging the vertical side walls thereof, and means on said terminal member for making electrical connection with switch mechanism in said housing cavity, said holes being staggered whereby the wire is squeezed into the holes as the body portion is folded over.

2,169,594

ELECTRICAL RESISTANCE AND METHOD OF MAKING SAME

Newton C. Schellenger, Elkhart, Ind., assignor to Chicago Telephone Supply Co., Elkhart, Ind., a corporation of Indiana

Application October 12, 1935, Serial No. 44,693
2 Claims. (Cl. 201—73)



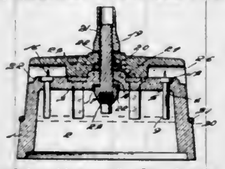
1. A method of making resistance elements which comprises applying a resistive coating of carbonaceous paint to a surface, heat-curing said paint, stamping formations which have relatively narrow top portions therein, and compressibly reforming said formations to produce substantially flat, contiguous contact surfaces thereon.

2,169,595

TRANSPARENT DISTRIBUTOR CAP

William Sherman, Jeannette, Pa., assignor to Transparent Distributor Cap and Motor Parts Co., Philadelphia, Pa., a corporation of Pennsylvania

Application August 21, 1937, Serial No. 160,263
2 Claims. (Cl. 200—19)



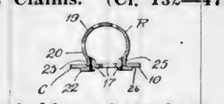
1. The combination of the body portion of a distributor cap and removable contacts, said body portion having spaced apertures, half round at their lower portions merging into a flat seat, the apertures above said seat having a curved peripherial wall merging into a straight wall, and removable contacts in said apertures having a flat wall to engage said seat, with the portion above said seat having a curved peripherial wall merging into a straight wall, and with the lower portion of the contacts half round in contour, whereby cocking of the contacts in the apertures of the body portion is prevented.

2,169,596

BOW HOLDER

Nathan L. Solomon, Mount Vernon, N. Y.

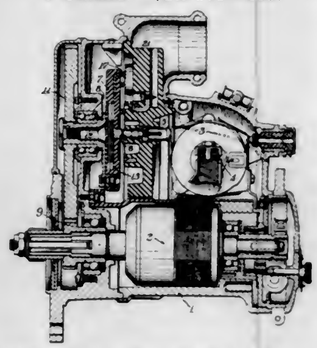
Application November 8, 1938, Serial No. 239,446
2 Claims. (Cl. 132—47)



2. In a bow holder, a hair clasp comprising an elongated resilient plate provided with an opening having opposed and concaved curved walls,

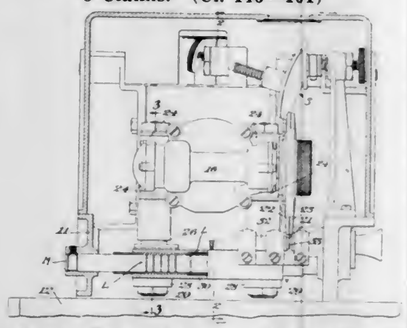
and an inverted substantially U-shaped resilient clasp having resilient arms provided with convexedly curved surfaces disengageably fitting into said walls and including laterally extending lips adapted to abut the bottom part of said plate.

2,169,597
MAGNETO GENERATOR
Walter J. Spengler, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application October 24, 1936, Serial No. 107,461
6 Claims. (Cl. 171—209)



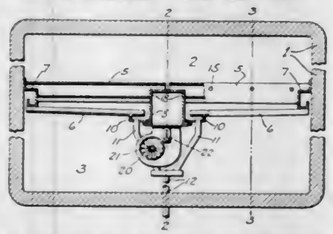
6. A rotor for a high tension electrical distributor in the form of a disc molded from plastic dielectric material, an electrostatic condenser in the form of a wafer embedded in said disc, and radially spaced terminal members therefor molded in said disc and projecting therefrom.

2,169,598
CUT-OFF FOR CIGARETTE MAKING MACHINES
John Alfred Stein, Richmond Hill, N. Y., assignor to American Machine & Foundry Company, a corporation of New Jersey
Application August 29, 1936, Serial No. 98,529
In Great Britain September 27, 1935
5 Claims. (Cl. 146—101)



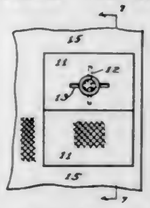
1. A cut-off for cigarette making machines of the continuous rod type comprising a rotary knife rotatable on an axis parallel to the cigarette rod, a mounting for the knife, a single crank carrying the knife mounting, a ledger plate reciprocable along the axis of the cigarette rod, a mounting for the ledger plate, and vertical telescopic means coupling the mountings together and permitting the knife mounting to approach and recede vertically from the ledger plate mounting, and acting as connections whereby said ledger plate derives a reciprocatory movement exclusively from said single crank.

2,169,599
ICE-COOLED REFRIGERATOR
Frederick J. Stollsteimer, Upper Darby, Pa., assignor to Fleetwood Craftsmen, Inc., Fleetwood, Pa., a corporation of Pennsylvania
Application July 2, 1937, Serial No. 151,567
6 Claims. (Cl. 62—72)



1. An ice-cooled refrigerator comprising a refrigerator chamber having ice storage and food storage compartments in air-communication with each other, an interposed ice-supporting grid formed of inverted channel members, a grid of drip-catching trough members for said channel members having means connecting the same to a discharge outlet outside said chamber, and a fan mechanism adapted to intermittently circulate air currents from said food storage compartment longitudinally beneath the supporting grid and along the under sides of said channel members and in contact with the ice drippings to said trough members.

2,169,600
TAG AND MEANS THEREON FOR ATTACHING THE SAME TO GARMENTS
Samuel Weiss, Brooklyn, N. Y.
Application April 12, 1939, Serial No. 267,441
4 Claims. (Cl. 40—20)

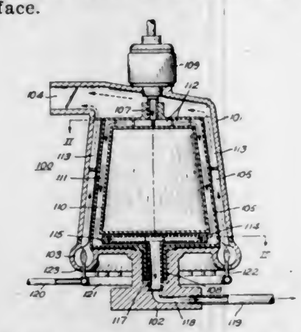


1. A tag and a means thereon for attaching the same to a garment, said tag having therein a pair of elongated openings spaced from each other and lying entirely within the tag, for passing therethrough a button of a garment, whereby to connect said tag to a garment, said openings being disposed substantially transversely to each other, the said disposition of the openings serving to securely keep said tag attached to said garment.

2,169,601
HEATING SYSTEM
Frank H. Cornelius and Walker N. Green, Wilkinsburg, Pa.
Application October 4, 1934, Serial No. 746,860
Renewed January 11, 1939
12 Claims. (Cl. 122—11)

1. In a heat exchanger for the transfer of heat, a wall of heat conducting material in the form

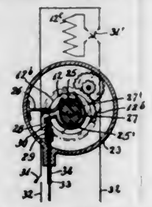
of a surface of revolution adapted to be disposed between streams of fluid mediums, a stationary wall spaced from said surface, a plurality of baffles secured to the stationary wall and extending to a point adjacent said surface, said baffles being curved at an angle to the axis of rotation of said surface of revolution and in the general direction of rotation thereof whereby the rotation of said surface cooperates with said baffles to produce a high relative velocity in a stream of fluid positioned between the stationary wall and said surface.



9. In a heat exchanger for the transfer of heat between streams of fluid mediums, three spaced walls, the intermediate one being of heat-conducting material, said streams flowing on opposite sides of said intermediate wall and being confined by the respective other walls, means for simultaneously moving said intermediate wall and one other of said walls, and stationary means comprising curved vanes for receiving and guiding the stream confined between said moving walls to thereby convert the kinetic energy of said stream into hydrostatic pressure.

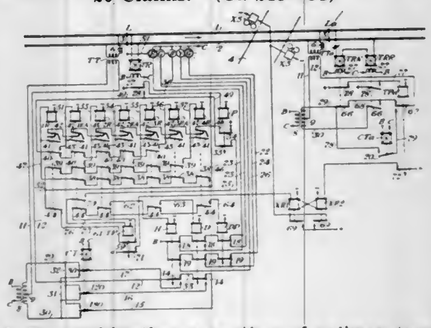
10. Heat exchange apparatus comprising two spaced movable walls in the form of similar surfaces of revolution with a common axis and adapted to confine a fluid stream therebetween, a third wall positioned to confine a separate fluid stream in heat exchange relation with said first named stream, a fluid outlet adjacent said axis, and stationary means disposed between said movable walls comprising spaced curved vanes for receiving and guiding said first named stream towards said outlet to thereby convert the kinetic energy thereof into hydrostatic pressure.

2,169,602
BRAKE MECHANISM FOR MECHANICALLY MOVABLE SHELVES
William Doggett, New York, N. Y.
Application May 4, 1935, Serial No. 19,773
Renewed January 14, 1939
1 Claim. (Cl. 188—171)



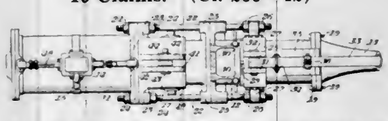
In a device of the class described, a brake drum on a rotative shaft connected with a source of power for controlling the motion of a movable member, a brake shoe engaging around said brake drum and having one of its ends fixedly mounted and its other end free, a solenoid having its core connected at one end to the free end of said brake shoe, an electric circuit for energizing said solenoid to move said core to release said brake shoe and permit said drum to rotate, and a cable connected to the other end of said core by which said brake shoe may be manually released independent of said circuit permitting a manual movement of said movable member.

2,169,603
RAILWAY TRAFFIC CONTROLLING APPARATUS
Charles W. Failor, Forest Hills, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania
Application February 23, 1938, Serial No. 191,939
20 Claims. (Cl. 246—34)



1. In combination, a section of railway track, means for supplying the rails of said section with recurring cycles of one or another of a plurality of different code pulse combinations each of which is made up of spaced pulses of normal-polarity energy in distinctive number followed by reversed-polarity energy in similar pulse form, means for selectively determining which of said different code pulse combinations is supplied to said rails, a track relay connected to said rails and arranged to respond only to the normal-polarity pulses of said coded energy which are received therefrom, decoding means governed by said track relay and arranged to register the number of responses which that relay makes during each code cycle, traffic-governing relays arranged to be energized selectively in accordance with the number of registrations which said decoding means make during each cycle of received code energy, and signalling apparatus controlled by said traffic governing relays.

2,169,604
CLAY GUN
James S. Fraser, Kettering, and John Miles, London, England
Application September 23, 1938, Serial No. 231,368
In Great Britain March 1, 1938
10 Claims. (Cl. 266—42)



1. A clay gun comprising a compressed air or the like fluid operated rear cylinder telescopically connected with a clay-holding front cylinder the piston of which is drivably connected with the

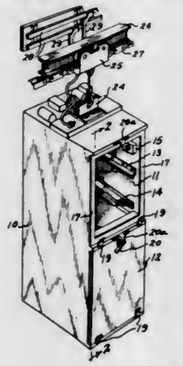
piston of the fluid operated cylinder, and a movable hook, for attaching the gun to a blast furnace or the like.

2,169,605

REFRIGERATOR UNIT TESTING

William B. Griese, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio

Application November 5, 1937, Serial No. 172,995
5 Claims. (Cl. 23—232)



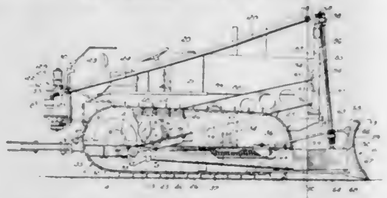
1. A process of testing a refrigerator unit which includes the steps of charging said unit, closely confining it in a substantially gas tight chamber, running said unit for a period of time so that the refrigerant is distributed throughout the unit, heating said chamber otherwise than by the running of a unit, whereby to cause an expansion and resulting increase in pressure of the refrigerant in the unit whereby any leak in the system is intensified, and to cause an increase in pressure in the chamber and then testing for the presence of escaped refrigerant in said chamber.

2,169,606

BULLDOZER ATTACHMENT FOR TRACTORS

Hugh Allen Hutchins, Glendale, and James S. Stewart, Huntington Park, Calif., assignors, by direct and mesne assignments, to Emsco Derrick & Equipment Company, Los Angeles, Calif., a corporation of California

Application February 15, 1936, Serial No. 64,091
20 Claims. (Cl. 37—144)



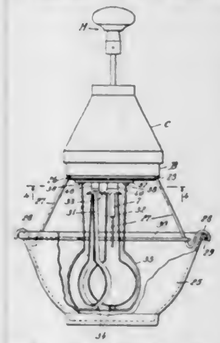
1. In a bulldozer attachment for use with a tractor having a body and an undercarriage, the combination of: a pusher element of U-shaped form comprising a front member extending across the front of the tractor, a pair of thrust arms extending rearwardly from said front member along opposite sides of said tractor, and pivot means at the rear ends of said arms connecting said rear ends of said arms to the undercarriage of said tractor; and an elevator element for producing vertical movement of said pusher element, comprising a front post member to project upwardly at the front end of said tractor body, supporting means for said post member, said supporting means carrying said post on the forward end thereof and extending rearwardly along the sides of said tractor body, there being a cross-member tying said supporting means together in a rigid structure, means for transmitting vertical and lateral forces directly from said supporting means to said undercarriage of said tractor, and lifting means connecting said post member to the forward portion of said pusher element and being operative to raise and lower the front end of said pusher element relative to the ground.

2,169,607

BEATER DEVICE

Albert Kelley, Miami Beach, Fla.

Application October 27, 1937, Serial No. 171,251
2 Claims. (Cl. 259—104)



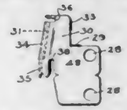
1. In a beater device of the character described, a base member having a substantially horizontal lower surface, a substantially vertical agitator element drive shaft extending downwardly from said base member, means for rotating said shaft and a detachable agitator element comprising a plate having an opening therein for the reception of said shaft, a beater element rotatably secured to said plate, separable means operated by turning said plate about said shaft for locking said plate to said base member and means on said shaft forming a driving connection with said beater element when the said plate is locked to said base member.

2,169,608

TWO-PART STOP FOR SEPARABLE SLIDE FASTENER TAPES

Max Kiessling and Adolph Krieger, Waterbury, Conn.

Application May 11, 1936, Serial No. 78,990
Renewed January 3, 1939
3 Claims. (Cl. 24—205)



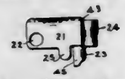
1. An end stop member for use on a separable slide fastener tape having a beaded edge, comprising a pair of opposed side wings for embracing the opposite faces of the bead of said tape, said side wings being joined by a tubular portion which straddles the beaded edge of said tape, said tubular portion having a slot extending laterally thereinto and shaped to snugly fit about the lowermost headed fastener element on said tape, the part of said tubular portion above said slot forming a lug of such size as to snugly fit between the last two fastener elements on said tape, said lug having a cut-away recess on the lower side of its outer end of such size as to permit the passage through said slot of said lowermost headed fastener element during the assembly of said end stop member on said tape.

2,169,609

METHOD OF MAKING TWO-PART STOPS FOR SEPARABLE SLIDE FASTENER TAPES

Max Kiessling and Adolph Krieger, Waterbury, Conn.

Original application May 11, 1936, Serial No. 78,990. Divided and this application October 23, 1936, Serial No. 107,196
1 Claim. (Cl. 29—148)



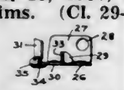
The method of making the female member of a two-part stop for the slide of a pair of separable slide fastener tapes, which comprises shearing a blank from flat sheet metal, bending one end portion of said blank in one direction to form a bead embracing clip, bending an intermediate portion of said blank in the opposite direction and forming it into a tubular socket for the prong of the male member, bending the other end portion of the blank in the same direction as said clip to embrace the sides of one of said tapes, and then swinging said socket and clip as a unit in the same plane through a right-angle to cause said clip and socket to abut adjacent sides of said tape embracing end portion.

2,169,610

METHOD OF MAKING SLIDE FASTENER STOPS

Max Kiessling and Adolph Krieger, Waterbury, Conn.

Application October 23, 1936, Serial No. 107,196, which is a division of application Serial No. 78,990, dated May 11, 1936. Divided and this application April 13, 1937, Serial No. 136,617
2 Claims. (Cl. 29—148)



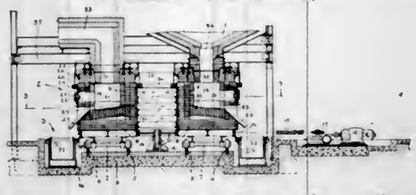
2. The method of making an angular male member of a two-part stop for use on a beaded slide fastener tape, which comprises shearing an angle-shaped blank having an integral upper horizontal arm and an integral lower vertical arm from a flat strip of metal with the horizontal upper arm provided with a reduced integral depending tongue-forming projection and having a tape-embracing portion extending a substantial distance above the upper terminus of said vertical arm, bending the lower vertical arm along a horizontal median line to form a pair of clamping plates to embrace the lower edge of said tape, bending the integral upper part of said upper arm along a vertical line to form a pair of bead-embracing members, and forming said depending projection into a cylindrical tongue for engaging in a socket on a cooperating female member of the two-part stop leaving a vertical slot between said tongue and said clamping plates, whereby said male member will be anchored very rigidly to said beaded tape.

2,169,611

APPARATUS FOR MANUFACTURING PORCELAIN ENAMEL AND GLASS

Glenn H. McIntyre, Cleveland Heights, and George R. Sylvester, Shaker Heights, Ohio, assignors to Ferro Enamel Corporation, Cleveland, Ohio, a corporation of Ohio

Application May 20, 1935, Serial No. 22,412
4 Claims. (Cl. 49—53)



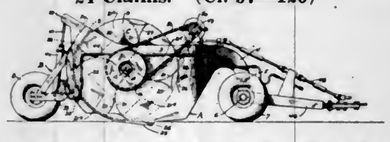
2. In apparatus for the refining of a continuous stream of melted porcelain enamel material, glass and the like which comprises the combination of means for discharging a continuous stream of melted material, an annular fining chamber divided into a plurality of independent sections, means for moving said fining chamber relatively to said stream of melted material to successively fill different compartments of said fining chamber, an annular water bath associated with said fining chamber, and a perforate basket in said water bath for the reception of fined material discharged from said compartments.

2,169,612

COMBINATION SCRAPER, CARRIER, AND SPREADING MACHINE

Wesley K. McMillan, San Francisco, Calif., assignor to Emsco Derrick and Equipment Company, Los Angeles, Calif., a corporation of California

Application June 25, 1934, Serial No. 732,223
24 Claims. (Cl. 37—126)



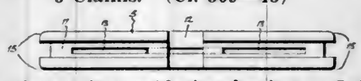
1. A machine of the character described comprising a main frame adapted to travel over a surface to be treated, a scraper carried by said frame, a multiple compartment carrier to receive material scraped up by the scraper, means for imparting a step by step movement to the carrier to bring empty compartments successively into loading position rearwardly of the scraper and to move the loaded compartment away from loading position, and means for retaining material loaded into the compartments until they are returned to loading position.

2,169,613

PISTON RING

Milton J. Niederlehner, Cincinnati, Ohio, assignor to Victor F. Zahodiakin, New York, N. Y.

Application April 5, 1937, Serial No. 135,022
3 Claims. (Cl. 309—45)



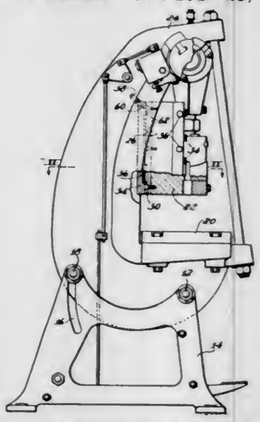
3. A piston ring, said ring having a flat external surface adapted to contact the wall of a

cylinder, said ring having its upper and lower external edges rounded on radii providing curvatures which are tangential respectively to the flat external contact surface, said external surface including an oil passageway, said passageway being disposed in the flat external contact surface and arranged so that there are portions of the flat surface above and below the oil passageway, said ring formed of steel which is heat-treated to a hardness sufficient for cutting glass.

2,169,614
PRESS

Louis E. Peck, Pittsburgh, Pa., assignor to Thomas Machine Manufacturing Company, Pittsburgh, Pa., a corporation of Pennsylvania

Application October 27, 1937, Serial No. 171,223
3 Claims. (Cl. 164—23)



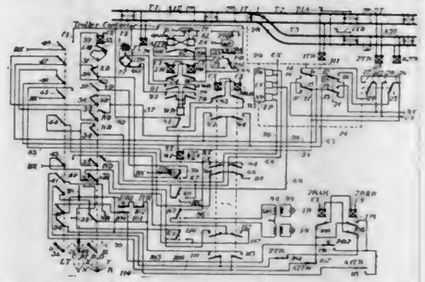
1. A power press including a box-shaped frame, a slide received in the box-shaped frame and including a tool carrying portion, means mounted at the upper end of the box-shaped frame for reciprocating the slide, vertically extending, triangularly shaped ribs on the opposite sides of the slide and extending in opposite directions adjacent the sides of the box-shaped frame, fixed gibs on the frame engaging with the back sides of the ribs, adjustable gibs carried on the frame and engaging with the front sides of the ribs, a key of rectangular cross section secured centrally to the back of the slide and in parallel relation with the ribs, the frame adjacent the key having a keyway formed therein and slidably receiving the key, said key and keyway having three large flat bearing surfaces and interengaging to hold the slide against lateral or backward displacement, said slide reciprocating means and the tool carrying portion of the slide lying substantially in a common plane.

2,169,615
RAILWAY TRAFFIC CONTROLLING APPARATUS

Melvin A. Penrod, Franklin Township, Westmoreland County, Pa., assignor to The Union Switch & Signal Company, Swissvale, Pa., a corporation of Pennsylvania

Application December 9, 1937, Serial No. 178,977
13 Claims. (Cl. 246—3)

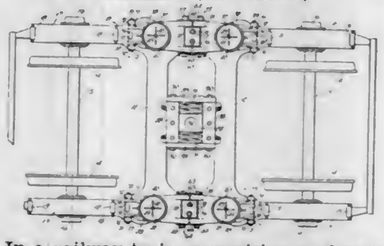
1. In combination with a railway track switch provided with a power operated mechanism for moving the switch to its normal and reverse positions, a normal and a reverse operating circuit for said mechanism, a first manually operated device located remote from the switch, a second manually operated device located along the track adjacent the switch, a third device including trackway apparatus located at a point in advance of the switch effectively influenced by train carried elements, said three devices each operative to control said operating circuits for moving the switch, a master selector operative to select said first device to control the switch or to take away the control of the first device and place the control under either the second or third device, and another selector located adjacent the switch operative to select between the second and third devices.



2,169,616
RAILWAY TRAIN

Charles De Los Rice, West Hartford, Conn.

Application February 17, 1937, Serial No. 126,193
11 Claims. (Cl. 105—4)



3. In a railway train comprising a plurality of coaches in tandem relation, a single truck located beneath the adjacent ends of a pair of said coaches, a substantially vertical transversely slidable pivot pin flexibly secured to the truck, means securing the adjacent ends of two of said coaches to the pivot pin for relative pivotal movement, a plurality of bearing blocks secured beneath each of the adjacent ends of said coaches and individually supporting said coaches for transverse slidable movement thereon, and means yieldably supporting each bearing block for a universal rocking movement.

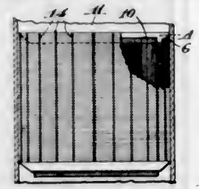
2,169,617
ELECTRIC MOTOR

Benjamin F. Schmidt, Los Angeles, Calif.

Application January 7, 1938, Serial No. 183,807
6 Claims. (Cl. 171—252)

1. In an electric motor, a cylindrical body formed of a series of sheet metal annular elements having a marginal portion of frusto-conical form and having radial teeth projecting from an end thereof in angular relation thereto, said elements being disposed in nested relation to each other, field windings surrounding the assembled teeth, and a cylindrical housing encompassing

said stator body in close contact therewith; said annular elements having notches formed in the margins of the enlarged ends thereof and being



arranged with the notches of adjacent elements in register with each other to form longitudinal passages in the stator body leading from end to end thereof.

2,169,618
PRESERVATION OF RUBBER

Robert L. Sibley, Nitro, W. Va., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware

No Drawing. Application January 20, 1936, Serial No. 59,929
10 Claims. (Cl. 18—50)

1. The method of preserving rubber which comprises treating rubber with a compound possessing the structural formula of

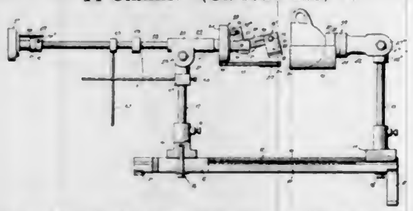


wherein R is an aromatic radical and R′ is hydrogen or an alkyl radical.

2,169,619
STENCILING MACHINE

John C. Smith, Beaver, Pa., assignor to Solar Laboratories, Beaver, Pa., a corporation of Pennsylvania

Application June 21, 1937, Serial No. 149,393
14 Claims. (Cl. 101—123)



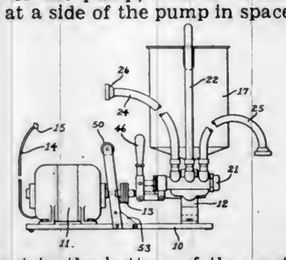
1. A stenciling apparatus comprising, a chuck for supporting hollow ware and a stenciling unit adjustably mounted for insertion into said hollow ware, said stenciling unit including a screen, a squeegee, and means for operating the squeegee relative to the screen.

2,169,620
CLEANING APPARATUS

Fred M. Spayd, Van Wert, Ohio

Application February 6, 1936, Serial No. 62,589
3 Claims. (Cl. 225—12)

1. A portable unit for cleaning pipe coils and the like comprising, in combination, a rotary liquid pump having a housing provided with an inlet at the top thereof and an outlet below the top, electric drive means for said pump, a fluid container having a bottom wall mounted directly on the pump inlet at the top of the pump with the interior of said container in direct communication with the interior of the pump, a plurality of conduits adapted for connection to a pipe to be cleaned, valve means carried by said pump and arranged between the pump outlet and said conduits for instantaneously reversing the direction of flow through said conduits during continued operation of the pump, said valve means being arranged at a side of the pump in spaced relation

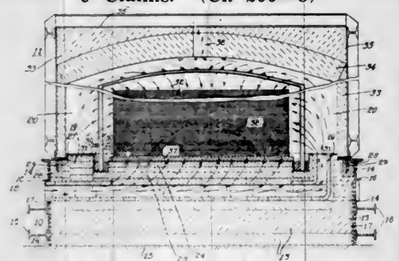


with respect to the bottom of the container and removable from the pump without disturbing the connection between the container and the pump, a fluid return line extending from said valve means for returning fluid from one of said conduits to said container, and a common supporting frame for said electric drive means and pump.

2,169,621
METHOD AND APPARATUS FOR ANNEALING METAL CHARGES

John R. Taylor, Natrona, Pa., assignor to Allegheny Steel Company, a corporation of Pennsylvania

Application October 9, 1937, Serial No. 168,233
9 Claims. (Cl. 266—5)



1. Apparatus for uniformly and rapidly annealing a charge of metal sheets comprising a base, a removable heat-insulating cover and an air-excluding cover within and spaced from said heat-insulating cover, a metal sealing plate disposed upon said base and upon which said air-excluding cover rests, and means for sealing said covers to exclude air from within them, said base being provided with heating ducts which terminate in elbow portions disposed between said covers.

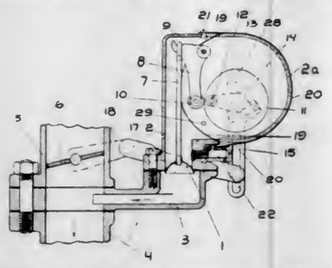
2,169,622
AUXILIARY AIR CONTROLLER FOR INTERNAL COMBUSTION ENGINES

Per Axel Reinar Weiertz and Lorentz Kristian Olsson, Malmo, Sweden, assignors to Aktiebolaget Cevia, Malmo, Sweden, a corporation of Sweden

Application November 16, 1938, Serial No. 240,864
In Sweden November 23, 1937
17 Claims. (Cl. 123—119)

1. An auxiliary air controller of the character described for internal combustion engines having a power control throttle valve inserted in the induction pipe or manifold, comprising an auxiliary air valve adapted to open automatically

against a load thereon under the influence of the vacuum created in the induction pipe when the engine is running, said load being adapted to be varied automatically in dependence upon the adjustment of said power control throttle valve, movable means effective by gravity for producing said load, and means for connecting said movable means with the power control throttle valve



in a manner such that movement of said throttle valve in a direction of increasing opening position thereof causes a reduction of the load on said auxiliary air valve allowing said valve to move further in its opening direction for the same increase of the vacuum within said induction pipe at a greater than at a less opening position of said throttle valve.

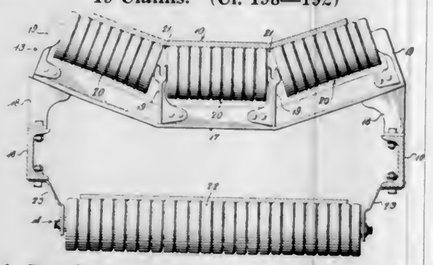
2,169,623

BELT CONVEYER AND IDLER

Charles R. Weiss and Richard W. Parker, Indianapolis, Ind., assignors to Link Belt Company, a corporation of Illinois

Application March 12, 1938, Serial No. 195,604

19 Claims. (Cl. 198—192)



1. In a belt conveyer idler, a roll comprising a shaft, a shell journaled on said shaft, a plurality of annular elastic members mounted on said shell, each of said members including a web portion and a rim portion which is of greater width than the thickness of the web portion so as to project laterally of the web, and means arranged between adjacent members for spacing their rim portions a sufficient distance to allow for free independent flexing of said portions, said spacing means engaging the web portions only of the members throughout but a portion of their depth to permit free flexing of at least a part of each web portion.

2,169,624

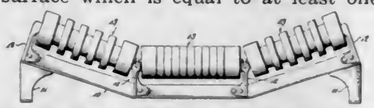
BELT CONVEYER IDLER

Charles R. Weiss and Richard W. Parker, Indianapolis, Ind., assignors to Link Belt Company, a corporation of Illinois

Application March 12, 1938, Serial No. 195,605

12 Claims. (Cl. 198—192)

1. In a belt conveyer idler, a roll comprising a shell, a resilient laminated tread for the roll comprising a plurality of ring members of alternatingly different diameters mounted on the shell, said larger diametered ring members being separately compressible at the peripheral region of the roll and affording a belt supporting surface which is equal to at least one half



the length of the roll, said smaller diametered ring members being formed of rubber, or the like, and means located radially inwardly of said peripheral region of the roll for restraining said ring members against radial outward movement.

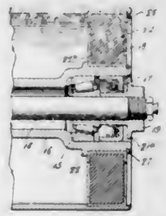
2,169,625

BELT CONVEYER IDLER

Charles R. Weiss and Richard W. Parker, Indianapolis, Ind., assignors to Link-Belt Company, a corporation of Illinois

Application March 12, 1938, Serial No. 195,606

7 Claims. (Cl. 198—192)



1. In a belt conveyer idler, a roll comprising a shaft, a hub concentric with the shaft, bearings for rotatably mounting the hub on the shaft, said hub having an annular seat formed at each end portion of the same, a cylindrical metallic shell surrounding the hub, and a rubber ring mounted on each of said hub seats and connected to the end portions of the shell, said rubber rings being of proper radial thickness to permit the shell to be displaced radially and axially and to assume different angular positions relative to the axis of the hub.

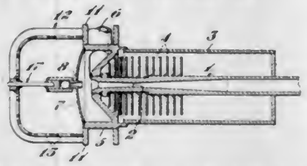
2,169,626

ASPIRATOR ASSEMBLY

Lyman F. Whitney, Cambridge, Mass., assignor, by mesne assignments, to Stator Corporation, a corporation of Rhode Island

Application May 25, 1938, Serial No. 209,874

5 Claims. (Cl. 230—95)



1. An aspirator assembly comprising a mixing chamber, a funnel extending from the mixing chamber, a duct to supply fluid to the mixing chamber, said mixing chamber having an end wall, a nozzle secured to said wall in alignment with said funnel, a duct for supplying vapor to said nozzle, a rod extending from said nozzle, a bracket extending from said mixing chamber and having a portion remote therefrom to which the rod is fixed, thereby to hold the nozzle in alignment with the funnel, said rod being formed of metal of low heat conductivity to impede the flow of heat away from the nozzle.

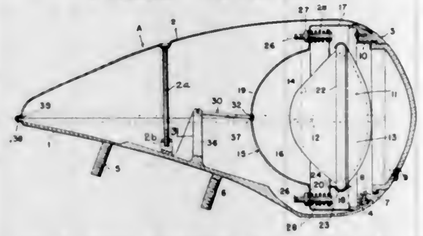
2,169,627

LAMP STRUCTURE

Norbert P. Worden and Charles F. Foley, Detroit, Mich., assignors to C. M. Hall Lamp Company, Detroit, Mich., a corporation of Michigan

Application March 29, 1937, Serial No. 133,666

6 Claims. (Cl. 240—41.5)



1. In a lamp structure, an ovoid body split longitudinally substantially along a horizontal plane axially of the lamp and provided at one end with a removable bezel, the lower section of said body being attachable to a support and forming a seat for the bezel, the upper section being mounted on said lower section and bezel, a partition within said body cooperating with one of said sections and said bezel to form a dust-proof chamber, a ring substantially parallel and adjustably connected to said partition and having a substantially semi-circular flange of substantially U-cross section, and a light unit carried by said flange and connected to said ring.

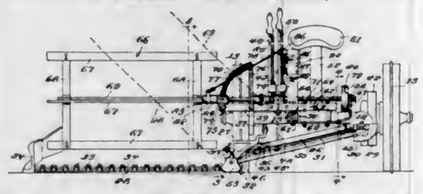
2,169,628

REEL ATTACHMENT FOR HAY MOWERS

Jim Bellegante, Glenns Ferry, Idaho

Application May 25, 1938, Serial No. 210,071

2 Claims. (Cl. 56—222)



1. In combination with a hay mowing machine or the like, including a cutting mechanism having a laterally disposed sickle bar mounted to be swingably raised and lowered, of a reel attachment including a transverse supporting beam attachable to the draft tongue of the machine, a propeller shaft mounted on said beam, said propeller shaft extending to one side of the longitudinal axis of said tongue and having a belt and pulley connection with the driving means for the cutting mechanism of the machine, the opposite end of said propeller shaft extending beyond the opposite side of said draft tongue and having a universal connection with an axial shaft of a reel, means for yieldably supporting the reel in correlation to the universal coupling of its shaft with said propeller shaft, said means including a bearing element on the reel shaft, said bearing element being slidably mounted on an arcuate guide standard on said transverse supporting beam, a spring element normally urging said bearing element downwardly on said arcuate standard, and flexibly connected means for swingably lifting the reel shaft on its universal coupling against the tension of said spring element on said arcuate standard and simultaneously lifting the sickle bar of the cutting mechanism.

2,169,629

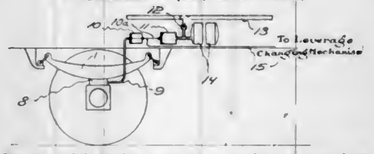
BRAKING APPARATUS

Bert Henry Browall, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden, a corporation of Sweden

Application October 20, 1936, Serial No. 106,662

In Germany October 24, 1935

8 Claims. (Cl. 188—195)



1. In combination with a vehicle having supporting springs, a device for automatically setting a braking apparatus for the vehicle, which is of the kind arranged to be set selectively in one or the other of two different operative conditions one of which gives a lower braking effort and the other of which gives a higher braking effort, in the condition giving the higher braking effort when the load of the vehicle is increased above a predetermined value, and for automatically resetting the braking apparatus in the condition giving the lower braking effort when the load of the vehicle is again reduced below said predetermined value, which device comprises two abutments, a member movable between said abutments and adapted, when moved into contact with one or the other of these two abutments, to set the braking apparatus in one or the other of its two different operative conditions, means acted upon by the vehicle supporting spring pressure and adapted to exert on said movable member a force increasing with the vehicle supporting spring pressure and tending to move and hold said movable member in contact with the abutment corresponding to the operative condition giving the higher braking effort, and means for exerting on said movable member a force which remains practically constant in all possible positions of said movable member and tends to move and hold said movable member in contact with the abutment corresponding to the operative condition giving the lower braking effort, the arrangement being such that said movable member contacts with one or the other of said abutments according to whether said first mentioned force overcomes or is overcome by said last mentioned practically constant force.

2,169,630

LIFESAVING DEVICE FOR SUBMARINES

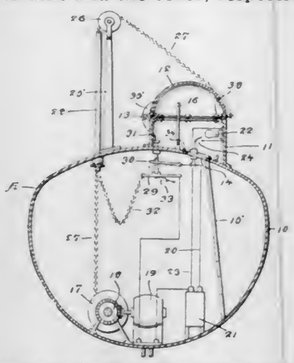
James E. Clanton, Portsmouth, Va.

Application August 26, 1937, Serial No. 161,126

1 Claim. (Cl. 114—16.6)

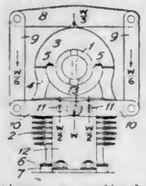
A life saving device for a submarine having a hull provided with a closable top hole, comprising a columnar body rising vertically from said hull for forming a hatch way to said hole, a hinged cover to said columnar body for opening and closing movements, a power unit interiorly of the hull, an electric switch having operating means accessible within the hatch way, an electric circuit having the power unit and switch arranged therein, a packing gland built with the hull at the

top thereof, a movable counterweight element slidably fitting the gland for extension without and within the hull, flexible connections between the power unit and the cover, respectively, and a



guide fixed exteriorly of the hull at the top thereof and extended upwardly beyond the path of swing of the said cover and having the flexible connection between said element and said cover movable thereover.

2,169,631
ROTARY VALVE ENGINE
Roland Claude Cross, Bath, England
Application December 12, 1936, Serial No. 115,618
In Great Britain February 21, 1936
11 Claims. (Cl. 121—187)



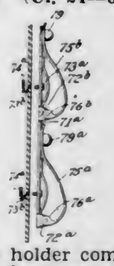
1. In combination, a cylinder, a cylindrical valve surmounting said cylinder, a housing for said valve divided into inner and outer floating parts, the inner floating part being movable toward the valve under the action of pressure developed in the cylinder, and a lever system through which said movement of the inner floating part causes the outer floating part to press on the valve with a force which is a controlled fraction of the force applied to the inner floating part by the gas pressure.

2,169,632
METHOD OF MAKING ROTARY GEAR CUTTERS
Robert S. Drummond, Detroit, Mich.
Application February 8, 1937, Serial No. 124,791
3 Claims. (Cl. 76—101)



1. In the method of making a rotary gear finishing tool having alternate lands and grooves on the faces of the teeth thereof, the steps of providing enlarged slots at the roots of said teeth between said teeth, rolling said rotary tool relative to a fixed serrating tool so as to cause said fixed tool to cut grooves from the top of said teeth to the enlarged slots.

2,169,633
GLOVE AND ARTICLE HOLDER
Nell Fulton, New York, N. Y.
Application July 22, 1936, Serial No. 91,987
1 Claim. (Cl. 24—85)



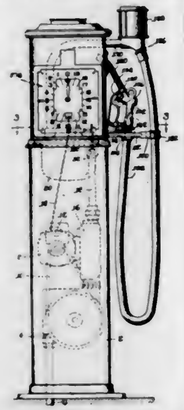
A glove and article holder comprising a relatively stiff back member, means securing said back member on a support, a longitudinally bent resilient article holding member swingably secured at one end to an end of said back member, said article holding member having a relatively large opening in the opposite end thereof, a longitudinally bent spring fixedly secured at one end to said back member and having the opposite end thereof free and frictionally engaging the adjacent side of said back member, that portion of said spring intermediate the ends thereof being offset from the adjacent side of said back member, and a spherical locking member fixed to the opposite end of said back member and engageable in said opening to releasably hold said article holding member in closed position, the resiliency of said article holding member normally holding the free end thereof, in closed position between said back member and said locking member.

2,169,634
LUBRICATING OIL COMPOSITIONS, INHIBITORS THEREFOR, AND METHODS OF MANUFACTURING THE SAME
Troy Lee Cantrell and James Otho Turner, Lansdowne, Pa., assignors to Gulf Oil Corporation, Pittsburgh, Pa., a corporation of Pennsylvania
No Drawing. Application September 17, 1936, Serial No. 101,340. Renewed December 14, 1938
8 Claims. (Cl. 87—9)

1. The method of preparing an oil-soluble organic compound suitable as an improvement agent for hydrocarbon oils, which comprises reacting an olefin and a phenol in the presence of a catalyst and treating at least a portion of the resultant product with phosphorus sesquisulphide.

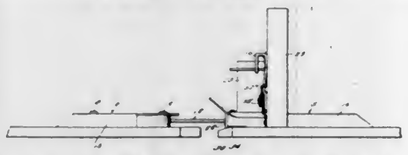
2,169,635
LIQUID DISPENSING APPARATUS
William M. Carroll, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Inc., Fort Wayne, Ind., a corporation of Indiana
Application February 2, 1935, Serial No. 4,674
5 Claims. (Cl. 221—95)

1. In a liquid dispensing device, the combination of means forming a dispensing line through which liquid is adapted to be forced, said line comprising a movable portion, a meter in said line, a member rotatable in synchronized relation with the movement of said meter, a disc on said member, said disc having peripheral notches spaced apart in predetermined relation, a control valve in the dispensing line, a spring to maintain said valve in closed position, a control shaft, an arm on said shaft adapted on predetermined movement to open said valve, a second arm on said shaft, a stop member pivotally connected to



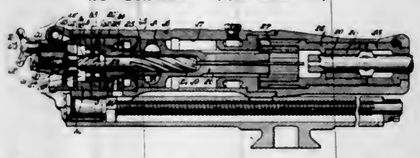
said second arm and adapted by a predetermined movement to be moved into contact with said rotatable disc and upon rotation of said disc to engage a notch in said disc to stop rotation of said disc, and means actuated by movement of said movable portion of said dispensing line in one direction for actuating said control shaft to initiate closing of said valve and to move said stop member into contact with said disc.

2,169,636
COUPLING
Arnold Lee Curry, Lundale, W. Va., assignor of one-third to Hardin Wright, Lundale, W. Va.
Application September 28, 1937, Serial No. 166,177
1 Claim. (Cl. 280—33.15)



In a coupler of the character described, an operating coupler-head, a link coupler-head having a link pivotally associated therewith, said link having a free end adapted to be inserted into said operating coupler-head, the free end of said link being provided with a slot, a slide member in said operating coupler-head having an abutment at its outer end to be engaged by said link to move inwardly of the operating coupler-head incidental to an insertion of the slotted end of the link into said operating coupler-head, an outwardly extending projection on the upper part of the abutment, a vertically movable coupling pin having a lower end resting on said projection when the slide is in projecting position, spring means for projecting the slide member, spring means engaged with said coupling pin for normally urging the latter downwardly, means for manually raising said coupling pin, a second spring-pressed slide member located above the first-mentioned slide member for holding the pin in raised position with its lower end above the projection of the first slide member, a depending lever pivotally connected with the second slide member, a second abutment on the inner end of the first slide member for engaging the lever as the first slide member approaches the end of its outward movement, for moving the second slide member to a position to release the pin to permit the pin to engage the projection of the first slide member and a stationary fulcrum part in front of an intermediate part of the lever for causing the lever to move the second slide member to pin releasing position when the lever is engaged by the second abutment.

2,169,637
ROCK DRILL
Elmer G. Gartin, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application October 21, 1935, Serial No. 45,931
Renewed November 4, 1937
29 Claims. (Cl. 121—7)



1. In a rock drill, a hammer motor including a cylinder, a piston reciprocable therein, a drill steel arranged in position to receive the impact blows of the piston, drill steel rotation mechanism including means operated by said piston for rotating the drill steel, and adjustable means associated with said drill steel rotation mechanism and cooperating adjusting means for varying and maintaining the rate of drill steel rotation at any speed between a predetermined minimum and a predetermined maximum rotative speed.

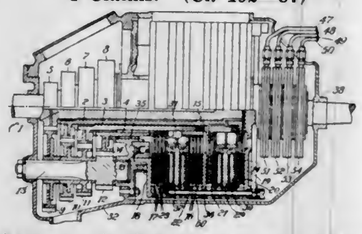
2,169,638
CONTAINER
Paul M. Gilfillan, Mount Vernon, Ohio, assignor to Shellmar Products Company, Mount Vernon, Ohio, a corporation of Delaware
Original application January 5, 1938, Serial No. 183,417. Divided and this application July 16, 1938, Serial No. 219,631
3 Claims. (Cl. 229—61)



1. A container, comprising two sheets of material adhered together along their longitudinal edges and partially along their transverse edges, said sheets being folded to form continuous side and bottom walls with the marginal portions thereof in overlapped relation, and said marginal portions being sealed together by a thermoplastic adhesive with the outer surface of the outer sheet being adhered to the inner surface of the inner sheet.

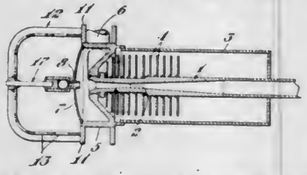
3. A container blank, consisting of two layers of transparent cellulose sheeting laminated by continuous glue lines along their longitudinal edges and provided with broken or segmental glue lines along their transverse edges.

2,169,639
CLUTCH MECHANISM FOR CHANGE-SPEED GEARS
Edward Grote, Berlin-Wilmersdorf, Germany
Application May 20, 1936, Serial No. 80,892
In Germany January 5, 1935
4 Claims. (Cl. 192—87)



1. A pneumatic clutch mechanism of the character described, comprising a plurality of clutch disks, expansible hollow members of U-shape in cross-section arranged between the clutch disks for actuating the latter, said members being open at their outer periphery, means rigidly holding said hollow members at their outer peripheries and for closing the latter, and means for admitting a pressure medium in the interior of the members through the first mentioned means for expanding said members.

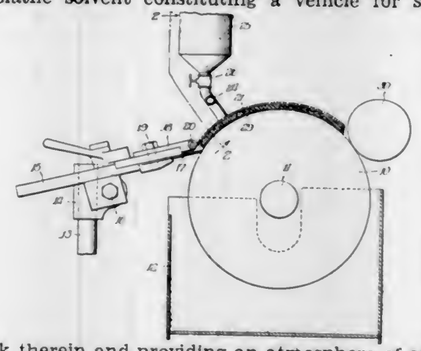
2,169,640
ASPIRATOR ARRANGEMENT
Russell A. Gulick, Winthrop, Mass., assignor, by mesne assignments, to Stator Corporation, a corporation of Rhode Island
Application May 25, 1938, Serial No. 209,876
6 Claims. (Cl. 230—95)



1. An aspirator assembly comprising a mixing chamber, a funnel extending from the mixing chamber, a duct to supply fluid to the mixing chamber, said mixing chamber having an end wall, a nozzle secured to said wall in alignment with the funnel, a duct for supplying vapor to said nozzle, a rod extending from said nozzle, a bracket extending from said mixing chamber and having a portion remote therefrom, said rod having a part in loose interfitting relation with said remote portion of the bracket to determine the approximate alignment of the nozzle and funnel, and means whereby the rod is fixed to the bracket after accurate alignment of the nozzle with the funnel.

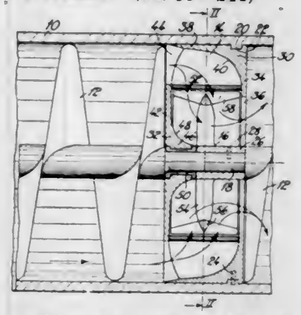
2,169,641
PRINTING DEVICE
Irving Gurwick, Mount Vernon, Ohio, assignor to Shellmar Products Company, Mount Vernon, Ohio, a corporation of Delaware
Application January 21, 1938, Serial No. 186,051
5 Claims. (Cl. 101—157)

5. In a printing unit, a printing cylinder, means for supplying to said printing cylinder a mobile ink having a volatile solvent, and an absorbent porous material positioned adjacent a portion of said printing cylinder spaced from said means for supplying ink thereto, said material having a volatile solvent constituting a vehicle for said



ink therein and providing an atmosphere of said solvent adjacent said cylinder.

2,169,642
MACHINE FOR TREATING FATS
Axel Victor Hammer, Copenhagen, Denmark
Application November 3, 1937, Serial No. 172,597
5 Claims. (Cl. 99—244)

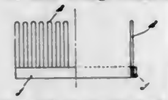


1. In a machine for treating fats, a tubular casing, a conveyor worm by which the product to be treated is carried lengthwise through the casing, at least one set of stationary members inserted as a partition in the casing and comprising spaced transverse walls having a number of peripheral apertures and a central aperture respectively, a circular row of kneading elements arranged substantially in axial direction between the peripheral aperture and the central aperture in the space between the transverse walls, and a wheel shaped member arranged on the conveyor worm shaft and carrying at its circumference a row of kneading elements spaced from the first named kneading elements.

2,169,643
INCANDESCIBLE CATHODE
Gilles Holst and Hajo Lorens van der Horst, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Original application September 6, 1934, Serial No. 743,006. Divided and this application March 14, 1938, Serial No. 195,890. In Germany September 7, 1933
6 Claims. (Cl. 250—27.5)

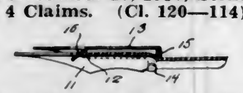
1. A compact incandescible cathode body comprising a composite comb-shaped band having an elongated support for carrying the emission current, and a large number of straight elongated

projecting portions spaced from each other and extending substantially perpendicularly to the longitudinal axis of the support, and highly electron-emissive material on the surface of said projecting portions, said band being bent along lines perpendicular to the longitudinal axis of the sup-



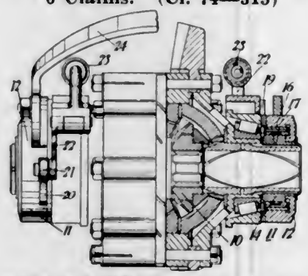
port into a series of convoluted portions forming a compact body provided over its entire cross section with a large number of ducts extending substantially from end to end of the body and allowing access of the discharge to the interior thereof.

2,169,644
PEN ATTACHMENT
Andrew W. Huntress, Washington, D. C.
Application December 17, 1937, Serial No. 180,436
4 Claims. (Cl. 120—114)



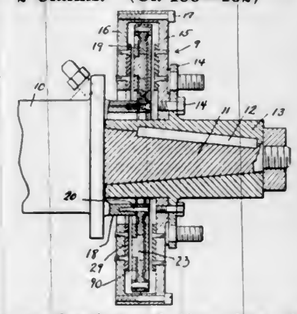
1. The combination with a pen having an opening therein, of an attachment comprising an element designed to conform to the cross sectional contour of the pen and adapted to be supported above the pen in spaced parallelism therewith to define an ink reservoir of uniform dimensions throughout its length, and means for securing the attachment in place including a combined supporting tongue and feeder carried by said element and positioned in said opening of the pen.

2,169,645
AUTOMATICALLY REVERSIBLE FREEWHEEL OR ONE-WAY LOCKING DEVICE
Richard Joseph Ifield, Solihull, Birmingham, England
Application September 22, 1938, Serial No. 231,253
In Great Britain January 22, 1937
6 Claims. (Cl. 74—315)



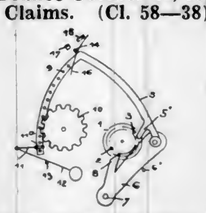
1. A restricted differential mechanism having a driving element and a reversible one-way locking device through which restriction is obtained, said device including relatively-movable members one having a surface of double-inclined form the other having a uniform surface, a jamming member disposed between and coacting with said surfaces, a V-tooth carried by one of said members, and a spring coacting with said V-tooth such that for one direction of rotation of said driving element when said spring is coacting with one flank of said V-tooth said spring will bias the member carrying said V-tooth in a direction in which said jamming member will coact with one of the inclined portions of said double-inclined surface, giving locking between said members against rotation in the reverse direction with respect to the direction of rotation of the driving element, whilst when the driving element is rotated in the opposite direction, the member carrying said V-tooth will move against said spring bias until said spring coacts with the other flank of said V-tooth, whereby the jamming element then coacts with the other inclined portion of said double-inclined surface to give locking between said members against rotation in the reverse direction with respect to the direction of rotation of the driving element.

2,169,646
BRAKE SYSTEM
David Fowler Irby, Gretna, La., assignor of one-fourth to Joseph Calzada and one-fourth to Frederick J. Fabre, both of Gretna, La.
Application January 27, 1938, Serial No. 187,289
2 Claims. (Cl. 188—152)



1. Brake mechanism of the class described comprising a rotary part, a drum connected with said rotary part, a stationary part, an annulus connected with the stationary part and located in the drum, said annulus having transverse openings therein, annular diaphragms at the sides of the annulus and having their inner and outer edges connected with the annulus, friction plates contacting the outer faces of the diaphragm, anchor bolts having their heads slidably arranged in the openings of the annulus and the shanks passing through threaded holes in the friction plates and through holes in the diaphragms for clamping the friction plates to said diaphragms, friction means carried by the inner faces of the drum and engaged by the friction plates of the diaphragms when the diaphragms are expanded, and means for forcing fluid between the diaphragms and the annulus to expand said diaphragms.

2,169,647
MOTORED CLOCK
Albert Gaston Jarry, Paris, France
Application October 8, 1934, Serial No. 747,467
In France October 11, 1933
6 Claims. (Cl. 58—38)



1. In an electric clock including a frame, and a clockwork mounted in said frame, a striking mechanism which comprises, in combination, at

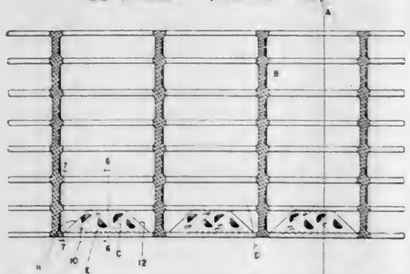
least one driving wheel means for rotating said wheel, a hammer pivotally mounted in said frame, a lever pivoted in said frame having a position of rest, a swinging rack pivoted to said lever, adapted to cooperate both with said wheel and said hammer, catch means for yieldingly locking said rack out of engagement with said wheel and said hammer when said lever is in said position of rest, said lever being adapted, when turned in one direction, from its position of rest, to release said rack from said catch means, means for limiting the downward displacement of said rack when released from said catch means, said lever being adapted, when turned in the opposite direction past its position of rest, to bring the rack released from said catch means into engagement with both said wheel and said hammer, whereby the hammer is operated and the rack is gradually brought back into its initial position in engagement with said catch means, and means, operative by said clockwork, for giving said lever rotary displacements first in the first mentioned direction and then in the opposite direction past said position of rest, when the striking mechanism is to be operated.

2,169,648
MOTOR VEHICLE TRANSPORT
Irving H. Judd, Dearborn, Mich., assignor to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan
Application April 27, 1936, Serial No. 76,715
4 Claims. (Cl. 296—1)



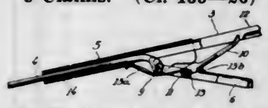
1. In a vehicle for transporting a plurality of fully assembled automobiles, a pair of side frame members extending longitudinally of said vehicle, an upper car carrying deck extending longitudinally of said vehicle and curved downwardly from the center thereof, and supporting frames extending upwardly from, and at an angle to, said side frame members, and in a direction substantially normal to the curve of said deck and supporting said deck.

2,169,649
GRATING
Leo J. Knapp and Henry C. Neitzel, Detroit, Mich., assignors to Whitehead & Kales Company, River Rouge, Mich., a corporation of Michigan
Application May 5, 1938, Serial No. 206,261
14 Claims. (Cl. 189—43)



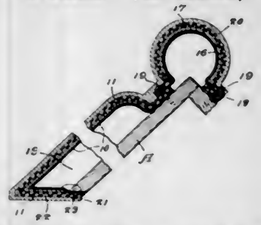
5. A grating having a row of openings along its forward edge, substantially flat inserts within said openings, the shape of said inserts being different from the shape of said openings, whereby said inserts cooperate with the edges of said openings to distinguish the forward edge of the grating from the rest of the structure.

2,169,650
UMBRELLA FRAME
Karl Kortenbach, Solingen-Weyer, Germany
Application June 28, 1938, Serial No. 216,377
In Germany June 28, 1937
5 Claims. (Cl. 135—26)



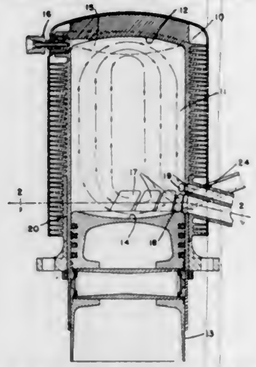
1. An umbrella frame comprising in combination telescoping umbrella stick and rib sections, a runner, stretchers pivoted to the runner and to the inner ends of the outer rib sections, sleeves slidable on the inner rib sections and connected in an articulated manner to the stretchers and to the outer rib sections, latches for locking the outerrib members against an inward movement when the umbrella is open, stops on the inner rib sections for the said latches, spreading springs arranged on the outer ends of the stretchers and cooperating with the ribs as well as with the latches, and stops on the outer ends of the inner rib members for limiting the outward movement of the outer rib members, the distance between the said two stops being greater than the length of the slidable sleeves so that the said sleeves can slide between the two stops when the umbrella is extended but not open.

2,169,651
PERMANENT ROOFING
George M. Larrison, Red Bank, N. J.
Application May 20, 1938, Serial No. 209,133
1 Claim. (Cl. 108—1)



A roofing construction comprising sheet-like lowermost fine and uppermost coarse mesh metal fabrics superimposed one upon the other for overlying roof sheathing at opposite sides of a ridge built therewith, a partially cylindrical ridge unit having lowermost fine and uppermost coarse woven mesh metal sections superimposed one upon the other and arranged at said ridge for saddling the latter and in overlapping relation to the first-mentioned fabrics, a cementitious covering associated with the first- and last-named fabrics and interlocked with the coarse mesh fabrics thereof, corrugations formed in the first-mentioned fabrics and disposed at right angles to the ridge unit, the first-mentioned fabrics being extended downwardly from the ridge and underturned at the eave for sealing the spaces between the corrugations and roof sheathing, and means concealed by the cementitious covering and securing the said fabrics to the sheathing.

2,169,652
INTERNAL COMBUSTION ENGINE
Olof Ljungstrom, Detroit, Mich.
Application December 20, 1937, Serial No. 180,862
9 Claims. (Cl. 123—65)



1. In an internal combustion engine, a cylinder having scavenging and exhaust ports spaced from each other circumferentially of the cylinder with the circumferentially spaced side walls arranged in overlapping relationship, a piston in the cylinder controlling said ports, and an additional port in the cylinder controlled by the piston and positioned to open immediately in advance of the aforesaid ports.

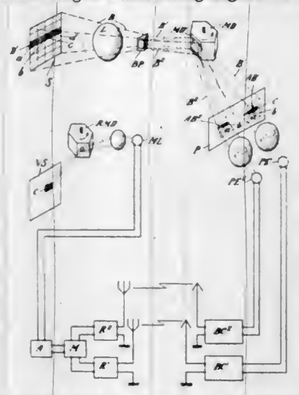
2,169,653
TIE LOCK
Fred F. Londke, Ubly, Mich.
Application December 9, 1937, Serial No. 178,999
Renewed April 24, 1939
2 Claims. (Cl. 24—56)



1. A necktie lock comprising a body part formed of a narrow imperforate strip of arcuate shape and of a length less than the width of the upper portion of the necktie knot, pins connected with the convexed face of the strip for entering the knot of the necktie in a downward and outward direction and prongs connected with the ends of the strip at the upper edge thereof for frictionally engaging portions of the neckband of the shirt for preventing slipping movement of the knot of the necktie.

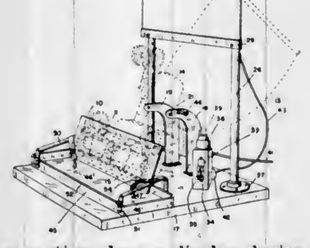
2,169,654
CONTROLLING THE SIGNAL FREQUENCIES IN TELEVISION SYSTEMS
Irwin Leonard Maguire, Elwood, Victoria, Australia
Application April 26, 1938, Serial No. 204,451
In Australia and Great Britain March 6, 1934
4 Claims. (Cl. 178—6)

1. In television, means for separately setting up two identical images of the subject to be televised, a separate scanning device for scanning each of said images, said scanning devices arranged to simultaneously scan equivalent areas on said images, one scanning device scanning a greater area than the other to the extent of the area of one picture point, photo-electric sensitive means for converting light beams derived from the scanning devices into separate identifiable signals, means for transmitting said identifiable signals, also means for mixing said signals when received for cancelling out equivalents and leaving a remaining signal electrically



equivalent to the beforementioned additional picture point and means using said remaining signal to modulate a light beam incident on a viewing screen.

2,169,655
VACUUM CLEANER DISPLAY DEVICE
Arthur L. McCarthy, Detroit, Mich., assignor to Eureka Vacuum Cleaner Company, Detroit, Mich., a corporation of Michigan
Application October 3, 1938, Serial No. 233,070
12 Claims. (Cl. 35—13)

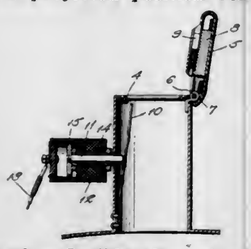


1. In a suction cleaner display device, a suction cleaner having a nozzle, a support in the form of a platform, means on the platform for supporting the suction cleaner in an inverted position with the nozzle disposed at an angle to the platform, a strip of surface covering resting against the nozzle opening and having an area sufficient to cover said opening, suction means embodied in the cleaner effective to draw the strip of surface covering against the nozzle opening, and means in the nozzle and engageable with the strip of surface covering to impart a vibratory movement to the strip.

2,169,656
GAS CAP FOR AUTOMOBILE TANKS
William M. McNeely, Memphis, Tenn.
Application November 16, 1937, Serial No. 174,870
1 Claim. (Cl. 292—254)

In a latch mechanism of that type for securing

a closure member latched to a hollow member, a housing adapted to be fixed to one of said members, a spring pressed latch bolt slidably mounted in said housing and normally maintained by the spring in a projected position relative to said



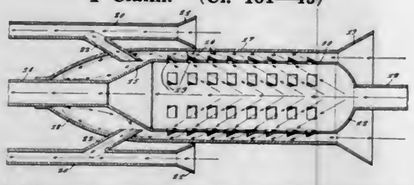
housing, and a flexible element adapted to be secured to the other member and engaging said bolt when in projected position and operable to effect operation of said bolt to a retracted position.

2,169,657
LUMINOUS OR FLUORESCENT FLOOR COVERING
Henry E. Millson, Philadelphia, Pa., assignor to The Calco Chemical Company, Inc., Bound Brook, N. J., a corporation of Delaware
No Drawing. Application July 22, 1938, Serial No. 220,702
4 Claims. (Cl. 139—420)

1. An arrangement comprising in combination a floor coating in a theatre aisle, at least a portion of the floor coating containing fluorescent materials which fluoresce strongly in the visible spectrum, and sources of ultra violet radiation directed on said floor coverings.

4. A floor covering comprising a textile fabric having a portion thereof woven of yarn dyed with a fluorescent dye which fluoresces strongly in the visible spectrum.

2,169,658
SILENCER FOR EXPLOSIVE ENGINES
Frank Newton, Presidio of Monterey, Calif.
Application June 7, 1938, Serial No. 212,373
1 Claim. (Cl. 181—43)

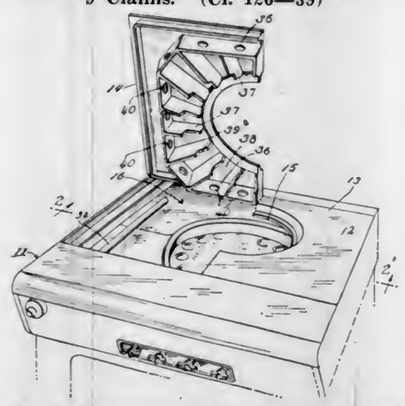


A silencer comprising an enlarged tubular inner section open at both ends and adapted to be interposed in the exhaust line of an explosive engine and formed with a plurality of apertures, rearwardly extending deflectors overlying the apertures, an outer shell having a tapered rear portion sealed upon the exhaust line in rear of the inner tubular section, said tapered rear portion coacting with the exhaust pipe and inner tubular section in forming a gas trap, said shell having the front end portion flared outwardly and open to the atmosphere to scoop air into the space between the inner section and outer shell and into the gas trap, a plurality of longitudinally extending tubes disposed exteriorly of the outer shell and having their front end portions flared, the rear ends of the tubes being open to the atmosphere, and rearwardly inclined branch pipes communicating with the tubes and with the gas trap, said tubes and branch pipes withdrawing gases from the gas trap by suction of air scooped into the flared ends of the tubes and passing across the discharge ends of the branch pipes.

2,169,659
ART OF SOLDERING
Percy Warren Noble, Unadilla, N. Y., and Alan Richard Powell, London, England
No Drawing. Application October 14, 1937, Serial No. 169,048. In Great Britain October 16, 1936
6 Claims. (Cl. 148—26)

1. As a new article of manufacture, a paste composition for the soldering at temperatures below 1000° C. of steels, copper, nickel and their alloys, said solder consisting of a mixture of oxygen-containing metal compounds capable of reduction to metal at a temperature below 1000° C. to yield an alloy which melts below said temperature, and a paste forming liquid, said mixture containing no precious metal in the metallic state and said mixture being capable of said reduction when heated to said soldering temperature in an atmosphere of a reducing gas.

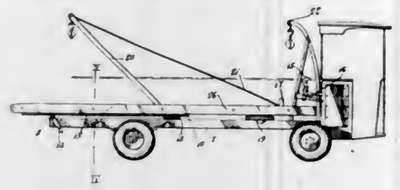
2,169,660
GAS RANGE
Henry W. O'Dowd, Jersey City, N. J., assignor to Standard Gas Equipment Corporation, a corporation of Maryland
Application July 18, 1936, Serial No. 91,330
9 Claims. (Cl. 126—39)



1. In or for a gas range having a closed cooking top, an underlying combustion chamber, a centrally located Bunsen burner arrangement therefor, and a flue surrounding the combustion chamber, means for dividing the combustion chamber into a plurality of passages or compartments radiating from the burner to disseminate heat uniformly throughout the cooking top and venting into said flue for carrying off the products of combustion, said dividing means being constructed and arranged to effect an even circulation of the hot gases from the burner along definite paths throughout the combustion chamber to the surrounding flue.

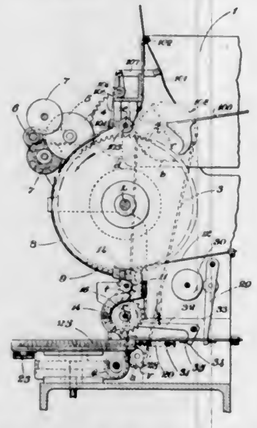
2,169,661
TIPPING LOAD-CARRYING PLATFORM
John Telford Ratcliffe, Frinton-on-Sea, England
Application September 6, 1938, Serial No. 228,669
In Great Britain May 13, 1937
8 Claims. (Cl. 214—85)

1. In combination a load-carrying platform normally lying in a level position upon a support, said platform being mounted for tipping about a substantially horizontal transverse axis and for movement backward and forward at right-angles thereto so that tipping is effected automatically as the platform is moved beyond a point of balance, whereby said platform may comprise an inclined ramp to facilitate loading and unloading



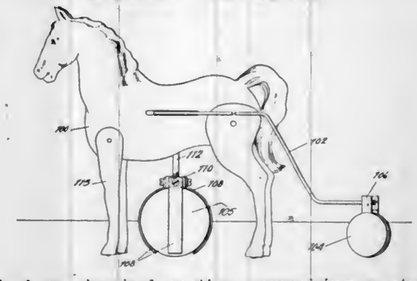
when in its rearmost position; means mounted on the support and permanently connected to said platform for transmitting movement thereto, whereby said platform may be moved through and beyond the point of balance; and additional means for moving said platform forwardly when it is loaded, whereby it will automatically return to a level position.

2,169,662
MANUFACTURE OF CIGARETTES
Félix Frédéric Ruau and Arthur Bingham, London, England, assignors to Molins Machine Company, Limited, Dextford, London, England
Application August 24, 1936, Serial No. 97,687
In Great Britain October 4, 1935
12 Claims. (Cl. 131—39)



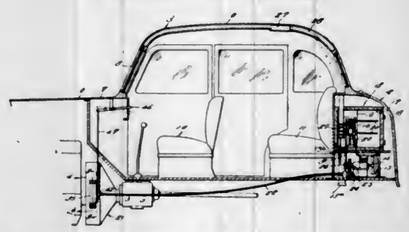
1. In a stub feeding mechanism, the combination with a conveyor to receive stubs, at predetermined intervals, of means to feed batches of stubs, each batch containing a predetermined number of stubs substantially in axial alignment toward said conveyor, a member for each stub of a batch, said member being movable into and out of the path of the stubs being fed to the conveyor to arrest the stubs, and an element for each stub of a batch, said element being movable between said means and conveyor and in timed relationship with said members permit one stub at a time to be delivered to the conveyor and to position the stubs relatively to the conveyor.

2,169,663
MECHANICAL MOTION
Walter A. Shanley, Brooklyn Heights, N. Y.
Application May 10, 1938, Serial No. 207,160
Renewed July 15, 1939
9 Claims. (Cl. 46—119)



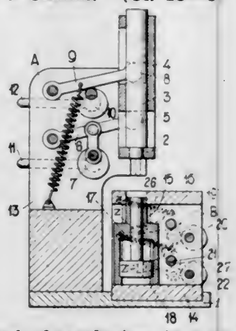
1. A mechanical motion comprising a strike arm, a cam ratchet movable thereby in one direction, a stationary cam ratchet engaging with said movable cam ratchet causing elevation of said movable cam ratchet, clutch means movable with said movable cam ratchet when engaged, a spring adapted to be stressed by movement in one direction of said movable cam ratchet, an inertia wheel, means intermittently engaging said wheel and energized by said spring to impart impulses to said wheel for operation of devices connected therewith, and an intermittently engageable means between said spring and wheel whereby said wheel may rotate freely after impartation of said spring impulse thereto, the engagement of said intermittently engageable means being accomplished by elevation of said movable ratchet cam.

2,169,664
REFRIGERATION SYSTEM
John A. Shifflett, St. Louis, Mo., assignor of one-third to Oscar H. Jacobsmeyer and one-third to Lotus Foval, both of St. Louis, Mo.
Application July 29, 1936, Serial No. 93,272
2 Claims. (Cl. 62—117)



2. The combination with an automobile body having a hollow side wall and top structure and a luggage compartment, of a refrigerating box in said compartment, a refrigerating unit in said box for cooling the air therein, a conduit extending upwardly through the bottom of the compartment and into the bottom of said box for introducing atmospheric air into the box, a register in the top of the body opening into the latter, and means to discharge air under forced draft from said box and into said register comprising a fan casing in said box opening thereinto, a discharge pipe leading from said casing and box to said register and concealed in said hollow wall structure, a combined suction and blower fan in said casing operative to draw air thereinto from said box and to force the same through said pipe, and means to operate said fan.

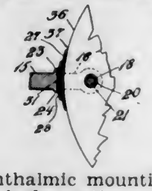
2,169,665
PRODUCTION OF PRESSED ARTICLES HAVING A PATTERN EXTENDING RIGHT THROUGH THEM FROM MATERIALS IN POWDER FORM
Heinrich Skolaude, Gross-Schonau, Czechoslovakia
Application August 31, 1937, Serial No. 161,860
In Czechoslovakia July 25, 1936
9 Claims. (Cl. 18—5)



1. A method of producing, in a mould, pressed articles having a pattern extending completely through them from materials in powder form consisting in filling the mould with moulding material, forcing a plunger profiled with the pattern right through the mold upwardly from below, so as to remove a part of the material from said mould to form a space in the material of selected contour, filling said space with moulding material of a different color and subjecting the materials thus moulded to a finish-pressing process.

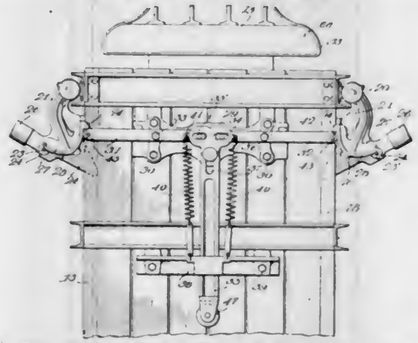
2. An apparatus of the character described comprising a member having a moulding space therein adapted to be initially filled with moulding material, a profiled piston movable through said space for displacing a part of the moulding material and forming a space in the latter, a matrix movable against said member and having an opening of the same profile as said piston for receiving additional material, and a piston movable independently of the matrix for inserting the additional material in the space formed in the first mentioned material after the withdrawal of the first mentioned piston therefrom.

2,169,666
LENS STRAP MOUNTING
Wayne S. Searles, Providence, R. I., assignor to Universal Optical Corporation, Providence, R. I., a corporation of Rhode Island
Application February 16, 1935, Serial No. 6,820
13 Claims. (Cl. 88—47)



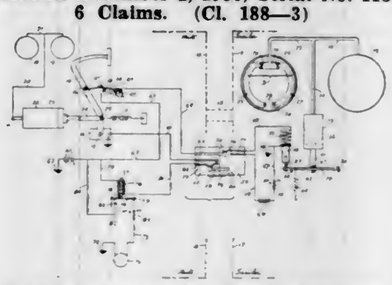
9. In an ophthalmic mounting, a lens, a lens strap having a body portion and a pair of arms to extend along opposite sides of the lens, means extending through the lens and arms for pivotally connecting the strap to the lens, and a plurality of separate arcuate leaf springs positioned one overlying the other with the end portions of one spring engaging the edge of the lens, said springs when free from distortion influences being on arcs of radii differing in a greater amount than the thickness of said spring with the ends of the overlying springs contacting the underlying spring and held in compression between said body and the lens and tending to move the said body away from the edge of the lens.

2,169,667
BALING PRESS ATTACHMENT
John A. Streun, Sherman, Tex., assignor to Hardwicke-Etter Company, Sherman, Tex., a corporation of Texas
Application November 5, 1937, Serial No. 173,012
18 Claims. (Cl. 100—28)



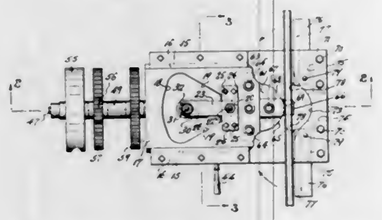
1. In combination with a baling press having a tramper and a ram, a supporting post, press boxes rotatably mounted on said post and adapted alternately to be moved under the tramper and the ram, retaining dogs mounted on the sides of the press boxes and arranged to be extended into and to be retracted from said boxes, actuating means movably connected to the inwardly situated sides of each of said boxes, releasable means for operatively connecting the actuating means to the retaining dogs, said ram when brought in compressing engagement with the cotton initiating the outward movement of the dogs and yieldable means connected to the releasable means and operable upon the movement of one of the boxes beneath the ram for positioning the releasable means so as to coact with the ram to move the dogs out of the box.

2,169,668
BRAKE MECHANISM FOR AUTOMOTIVE VEHICLES
Adolph A. Thomas, New York, N. Y.
Application December 1, 1936, Serial No. 113,536
6 Claims. (Cl. 188—3)



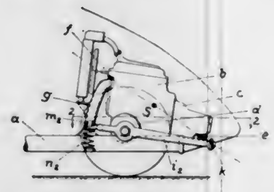
1. In an automobile and trailer assembly, the combination of hydraulic brake mechanism on each vehicle, a brake pedal on the automobile, and means for simultaneously operating both of said hydraulic brake mechanisms in response to the movements of said pedal, said brake-operating means including an electric connection between the coupled vehicles.

2,169,669
ANGLE-IRON BENDING MACHINE
Adolf Wachs, Brooklyn, N. Y.
Application October 26, 1937, Serial No. 171,025
7 Claims. (Cl. 153—48)



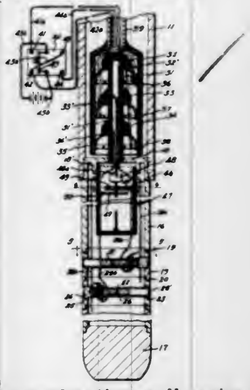
1. In a machine for the purpose described, in combination cooperative bending die means comprising a stationary female die and a reciprocable male die opposed thereto, auxiliary bending arms respectively pivotally connected with opposite sides of said female die and adapted to be actuated when engaged by the work as the latter is pressed by the male die toward the female die to thereby swing said bending arms with initial bending effect upon the work, and said arms having nosings at their inner ends inwardly spaced from their pivotal points, said nosings being disposed to project beyond the planes of the work engaging faces of said arms thereby to cause an excess bending effect upon the engaged extending end portions of the work to compensate for springy reaction thereof after bending pressure thereupon is relaxed.

2,169,670
AXLE ARRANGEMENT FOR MOTOR-DRIVEN VEHICLES
Max Wagner, Stuttgart, Germany, assignor to Daimler-Benz Aktiengesellschaft, Stuttgart-Unterturkheim, Germany, a German company
Application December 31, 1935, Serial No. 56,916
In Germany December 31, 1934
69 Claims. (Cl. 180—73)



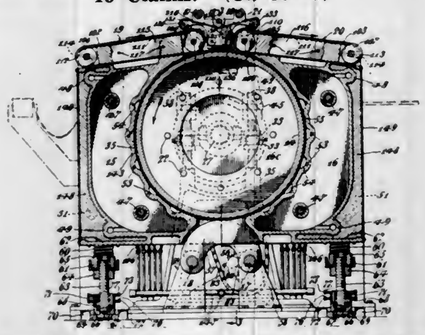
3. In the chassis of a motor-driven vehicle, the combination comprising a frame, a rigid axle, a pair of wheels mounted on said axle, rearwardly converging struts attached to said axle and forming a triangular structure therewith, a joint between the rear end of said frame and said triangular structure, a driving unit mounted on said frame and surrounded by said triangular structure, and motion transmitting means connecting said driving unit with said wheels.

2,169,671
CASING PERFORATOR
Robert D. Walker, Dallas, Tex., assignor of one-half to Vera E. Yarbrough, Harris County, Tex.
Application June 22, 1936, Serial No. 86,618
Renewed July 27, 1938
15 Claims. (Cl. 164—0.5)



1. A device for perforating well casing including, a housing adapted to be connected to a well tubing and lowered therewith into said casing, said tubing having a fluid inlet above the housing, a plurality of explosive charges mounted within the housing, means adapted to be lowered through the tubing and arranged to be detachably connected with the housing for firing each charge individually, the detachability of said means permitting its removal through the tubing after said charge is fired, whereby said means will not interfere with the flow through the tubing, and means for directing the force of each charge against the well casing to perforate the same.

2,169,672
LAUNDRY IRONER
Claude J. West, Philadelphia, Pa., assignor, by mesne assignments, to Theodore Halkias
Application November 28, 1936, Serial No. 113,092
13 Claims. (Cl. 38—8)



1. A laundry ironing machine comprising a single main roll, a pair of generally concavely surfaced press platens arranged yieldably to bear against said roll, said press platens being disposed at opposite sides of said roll and having the concave surfaces thereof in operative juxtaposition to a generally uninterrupted major portion of the periphery of said roll, and said press platens being spaced from each other at the top of the

roll, thereby to leave a portion of the roll exposed at the top, a feed-in belt above one of said press platens arranged to feed the work to said exposed portion of the roll, and a delivery belt above the other of said press platens arranged to receive the work from said exposed portion of the roll and to deliver the same.

2,169,673

TORQUE MEASURING WRENCH

Herman W. Zimmerman, Highland Park, Ill., assignor, by mesne assignments, to Frederick G. Wacker and Grace J. Wacker, Lake Forest, Ill.

Application April 12, 1937, Serial No. 136,307

8 Claims. (Cl. 265—1)



1. A torque measuring wrench comprising a handle, means associated with one end of said handle and adapted to engage the work, a hand grip unit on said handle at a point removed from said means, said unit including a grip element, means for mounting said grip element on said handle for movement toward and from the axis of said handle including spaced apart members secured to said element and slidably engaged with said handle at substantially right angles to the axis of the latter, and means associated with said members for opposing movement of the grip element toward said handle and adapted to give way upon the application of pressure to the grip element and permit movement of said element toward said handle, and means for measuring the extent of movement of said grip element in terms of pressure applied to the wrench through said grip element.

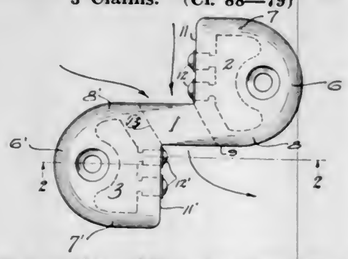
2,169,674

HIGHWAY MARKER

Thomas L. Adas, Chicago, Ill., assignor to Purdue Research Foundation, La Fayette, Ind., a corporation of Indiana

Application November 9, 1936, Serial No. 109,834

3 Claims. (Cl. 88—79)



1. In a marker of the class described, a body with a relatively narrow high central portion with upright sides extending parallel with the longitudinal axis of the marker, there being upright walls projecting outwardly substantially at right angles from said sides, the top face of said body being inclined downwardly towards the ends of the marker and from the top of said central portion and from the top of said walls, reflecting devices mounted in said walls and facing in opposite directions and away from the respective downwardly inclined top faces, said body being recessed to accommodate unobstructed passage of rays of light to said devices from above, in front and outwardly of the devices.

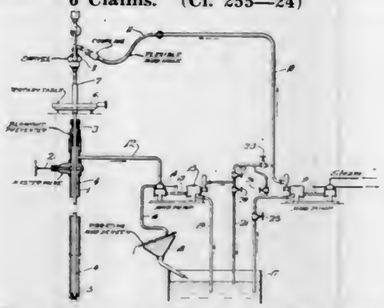
2,169,675

BACK-PRESSURE CONTROL IN PRESSURE DRILLING

George S. Bays, Tulsa, Okla., assignor to Stanolind Oil and Gas Company, Tulsa, Okla., a corporation of Delaware

Application December 20, 1938, Serial No. 246,864

6 Claims. (Cl. 255—24)



1. In a pressure drilling operation in which drilling fluid comes from a well at a high pressure carrying cuttings, the steps which comprise reducing the pressure on said drilling fluid to approximately atmospheric pressure without subjecting it to any substantial shearing action, removing cuttings from the drilling fluid at approximately atmospheric pressure, and reinjecting said drilling fluid, after removal of said cuttings, into said well at a high pressure.

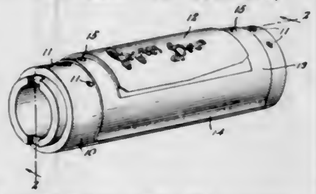
2,169,676

SIGNATURE AND OTHER PRINTING DIES FOR PRINTING MACHINES

Howard T. Buck, Cedar Knolls, N. J., and Wallace A. Buck, Brooklyn, N. Y., assignors to T. S. Buck Manufacturing Co., New York, N. Y., a corporation of New York

Application May 27, 1938, Serial No. 210,400

4 Claims. (Cl. 101—375)



1. The combination with the printing die drum of a printing machine having a depression in the periphery thereof, of a printing die backing member fashioned from resilient sheet material of concavo-convex cross sectional shape defining an arc of greater extent than one-half the periphery of the drum so as to inherently clamp and retain itself in embracing relation on the surface of the drum, and detent means projecting from the inner concave surface of said member adapted to engage within the drum depression to locate the backing member thereon and to retain the same against circumferential or axial shifting movement with reference thereto.

2,169,677

APPARATUS FOR PACKING GLASS SHEETS

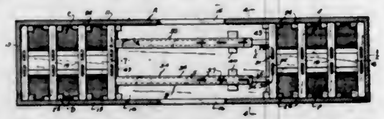
Charles D. Burrell, Toledo, Ohio, assignor to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio

Application September 25, 1937, Serial No. 165,639

12 Claims. (Cl. 105—367)

1. In apparatus of the character described for

packing glass sheets, the combination with a freight car having a longitudinally extending sill plate secured to the floor thereof and positioned intermediate the side walls of said car, a plurality of sheets of glass being adapted to be stacked upon edge against each side wall of the car outwardly of said sill plate, of a plurality of truss members arranged transversely above the glass sheets, means associated with said truss



members for mounting them in fixed position relative to the opposite side walls of said car, vertical bracing strips engaged with said truss members and having the lower ends thereof disposed outwardly of said sill plate and held thereby against the stack of glass sheets, and means for securing the upper ends of said bracing strips against the stack of glass sheets and also against movement relative to said truss members.

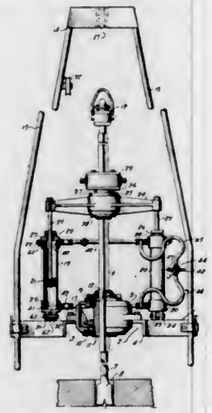
2,169,678

REMOVABLE POWER DEVICE FOR EARTH-DRILLING MACHINES

Walter T. Caldwell, Enid, Okla., assignor to The George E. Failing Supply Company, Enid, Okla., a corporation of Oklahoma

Application April 6, 1938, Serial No. 200,388

9 Claims. (Cl. 255—22)



1. In combination with a rotating mechanism, a support carrying said rotating mechanism, a power device including a pair of cylinders disposed on opposite sides of the rotating mechanism, brackets on the support and spaced from the rotating mechanism, and spaced pairs of links connecting the cylinders with said brackets whereby the power device is adapted to be moved from position relatively to the rotating mechanism to a substantially corresponding position on the opposite side of said brackets.

2,169,679

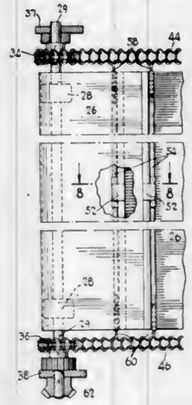
DISPLAY DEVICE

Herbert Chase and Helmuth W. Waldorf, New York, N. Y.; said Waldorf assignor to said Chase

Application March 10, 1938, Serial No. 195,002

3 Claims. (Cl. 40—32)

1. In a device for displaying advertising matter, a casing having a display opening therein, a pair of spaced registering, endless conveyor members for carrying display signs into a position across said opening, said conveyor members extending in a tortuous path within said casing, and a plurality of flexible rod-like sign supports extending between said conveyors and removably secured to each, the distance between alternate supports being uniform and greater than the



distance between adjacent supports throughout the length of said conveyor members, and a continuous series of individual display signs mounted on said supports, each sign being connected at opposite ends to alternate supports whereby marginal parts of adjacent signs are held in overlapping relation, and the length of each sign between connections thereof being less than the normal distance between alternate members of said flexible supports.

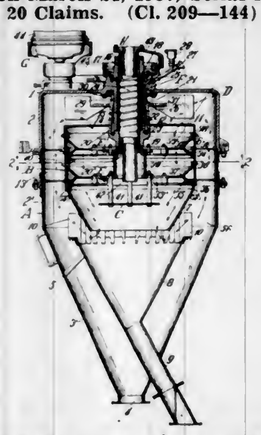
2,169,680

WHIZZER SEPARATOR

Joe Crites, Evanston, Ill., assignor to Combustion Engineering Company, Inc., New York, N. Y., a corporation of Delaware

Application March 24, 1937, Serial No. 132,784

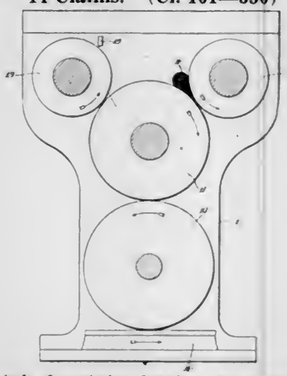
20 Claims. (Cl. 209—144)



1. In a separator, means for causing an upward flow of air through the casing with material to be separated suspended in said air flow, and a pair of similar separating assemblies positioned in superposed relation within the casing so as to provide an unagitated centrifugal sorting space

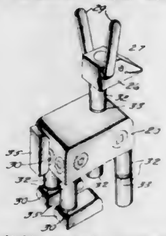
between the assemblies, each separating assembly comprising an outer stationary annular conical deflector carried by the casing wall and projecting inwardly and upwardly, and an inner rotary whizzer extending at its periphery into proximity to the conical wall of the stationary deflector.

2,169,681
INK FOUNTAIN
Edward F. Dudley, Oak Park, Ill., assignor to Miehle Printing Press & Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application November 17, 1938, Serial No. 240,918
14 Claims. (Cl. 101—350)



1. An ink fountain, having in combination a roller unit comprising an inking-in roller, an ink distributing roller, a roller cooperating with said latter roller to control the volume of ink to be supplied to said inking-in roller, and a second roller arranged adjacent said distributing roller to provide an ink retaining space together with said distributing roller and the other roller cooperating therewith.

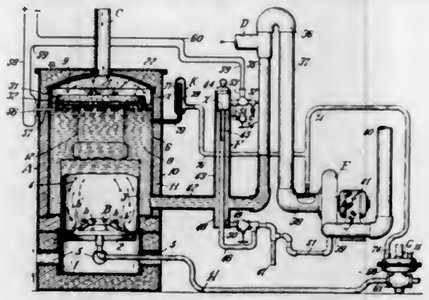
2,169,682
MECHANICAL TOY
Theodore R. Duncan, Los Angeles, Calif.
Application January 17, 1939, Serial No. 251,423
9 Claims. (Cl. 46—23)



1. A toy building set comprising a series of differently shaped pieces, and suction cups for securing said pieces in assembled relation.

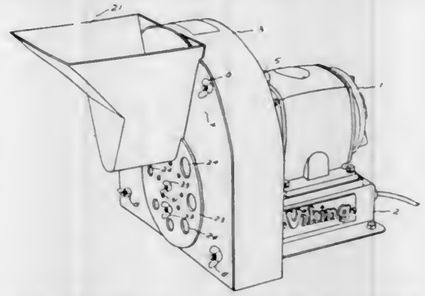
2,169,683
GENERATING MIXED FLUID HEATING MEDIUM
Clayton A. Dunham and Aubra R. Dunham, Glencoe, and David N. Crosthwait, Jr., Chicago, Ill., and Paul D. Miller, Michigan City, Ind., assignors to Experimental Laboratories Incorporated, Chicago, Ill., a corporation of Illinois
Application January 3, 1938, Serial No. 183,048
14 Claims. (Cl. 60—45)

1. A generator for a mixed fluid heating medium consisting of hot products of combustion and steam, comprising a housing enclosing a body of water and a mixing chamber thereabove, means for replenishing the body of water, an outlet for the mixed heating medium leading from the mixing chamber, a passage for conducting hot combustion gases in heat exchange relation to the body of water and into the mixing cham-



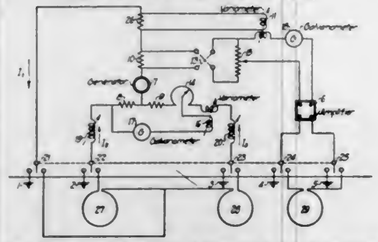
ber, means for partially confining a portion of the body of water closely adjacent the hot gases so that this water will be partially boiled, said confined portion being in communication with the main body of water and supplied with water therefrom, and a conduit projecting from this confined space through which a fountain of water is forced upwardly into the mixing chamber.

2,169,684
HAMMER MILL
John A. Erickson, Jackson, Mich.
Application October 8, 1936, Serial No. 104,635
3 Claims. (Cl. 83—11)



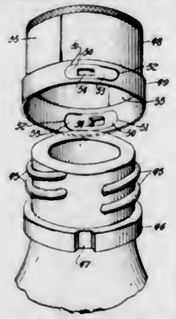
1. A hammer mill comprising a housing, a rotor disposed therein, means to rotate said rotor, a plurality of hammers connected to said rotor, a removable screen in said housing for determining the texture to which the material to be acted upon is ground, a hopper having an outlet for holding the material to be acted upon by said mill, an adjustably mounted feeding means adjacent said outlet having a plurality of inlet ports any one of which, by adjusting said feeding means, may be disposed between said hopper and said housing for admitting the material to be acted upon into said housing from said hopper, said inlet ports being of different sizes, and a screw in said hopper for feeding the material therein through the active inlet port into said housing, whereby, by adjusting said feeding means, an inlet port of predetermined size may be selected for active use depending upon the mesh of the screen used in said housing.

2,169,685
ELECTRICAL METHOD OF GEOPHYSICAL EXPLORATION
Haakon Muus Evjen, Houston, Tex., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 8, 1937, Serial No. 147,060
11 Claims. (Cl. 175—182)



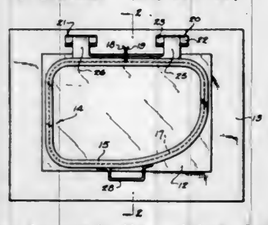
1. In a method of geophysical exploration, the steps of forcing an electric current from a single electromotive source to flow through the ground in a plurality of streams through a plurality of current electrodes, varying the relative intensities of said current streams, registering said relative intensities and measuring the potential difference generated by the flow of said streams between two grounded potential electrodes for different intensities of said streams.

2,169,686
SEALED RECEPTACLE
Edward H. Fabrice, Chicago, Ill., assignor to Guardian Safety Seal Company, Chicago, Ill., a corporation of Illinois
Application March 31, 1937, Serial No. 133,957
1 Claim. (Cl. 215—46)



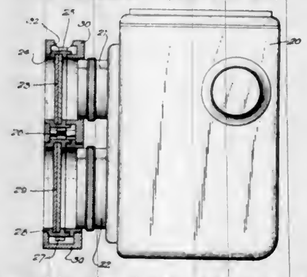
A sealed receptacle comprising a receptacle equipped with an externally threaded mouth portion, the threads of which are interrupted at diametrically opposite points to provide free spaces between the opposed ends of the thread formations, an annular outwardly projecting bead disposed on the bottle neck below the threads thereof and equipped at diametrically opposite points with recesses disposed in alignment with the spaces between the opposed ends of the threads and each of said recesses presenting a side wall constituting a stop formation, a sealing cap mounted on said receptacle and having an annularly enlarged base portion telescopically receiving the annular bead of the receptacle, a tear-out strip in said enlarged portion of said cap extending arcuately over the recesses in the bead of the receptacle, said strip being equipped at one end with a free digitally engageable tongue and equipped between its ends with an inwardly projecting tongue engaging in said recess with its free end disposed in contact with said side wall of said recess in said bead for preventing rotation of the cap counter-clockwise for effecting removal thereof and thread formations in said cap above said enlarged base portion thereof offset laterally from said tongue of said rip-strip and engaged with thread formations of the receptacle at one side of the space between the opposed ends of said thread formations, the length of the thread formations of the cap being substantially equal to the length of the last-mentioned free space, whereupon by rotating said cap counter-clockwise for a distance substantially equal to the length of the threads therein, said cap may be removed following removal of the rip strip.

2,169,687
ELECTRICAL GLASS CUTTING APPARATUS
Ival G. Fowler and John L. Drake, Toledo, Ohio, assignors to Libbey-Owens-Ford Glass Company, Toledo, Ohio, a corporation of Ohio
Application November 4, 1935, Serial No. 48,188
8 Claims. (Cl. 49—50)



1. A device for use in the cutting of glass sheets including a supporting surface for the sheet, a template above said supporting surface, and heating means carried by the template comprising a plurality of separate heating elements arranged in end to end relation and cooperating to heat the glass sheet to a relatively high temperature along a substantially closed continuous line of cleavage.

2,169,688
PHOTOGRAPHIC CAMERA
Hellmuth Frötschner, Dresden-Laubegast, Germany, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany
Application November 23, 1936, Serial No. 112,382
In Germany November 26, 1935
6 Claims. (Cl. 95—64)



1. In combination in a camera, a camera objective, a finder, a light polarizing means mounted in front of said finder, a second light polarizing means in front of said camera objective, said two polarizing means having their planes of polarization parallel to each other and being rotatably adjustable about the axis of said finder and camera objective respectively, and means for op-

eratively connecting said polarizing means with each other, and being effective upon rotative adjustment of one said polarizing means to adjust the other in the same direction the same angular distance.

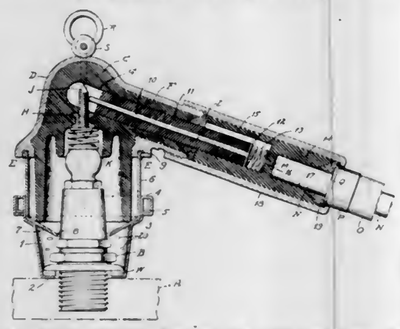
2,169,689

HEAT SHIELD FOR SPARK PLUG CABLES

Frank G. Gardner, Maplewood, N. J., assignor to Breeze Corporation, Inc., Newark, N. J.

Application February 24, 1934, Serial No. 712,696

10 Claims. (Cl. 123—169)



1. A heat shield for spark plug cables comprising a sleeve of metal of low heat conductivity adapted to be disposed around a portion of a spark plug and spaced therefrom and formed with a baffle disposed between the sleeve and the body of a spark plug.

2,169,690

FIBER

Stephen P. Gould and Earle O. Whittier, Washington, D. C.; dedicated to the free use of the People in the territory of the United States No Drawing. Application May 28, 1938, Serial No. 210,789

2 Claims. (Cl. 18—54)

(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A process for producing casein fibers of enhanced strength and water resistance, which includes subjecting an alkaline solution comprising casein, in the form of fine streams, to the action of an acid bath comprising a solution of phosphoric acid and an alkaline earth phosphate.

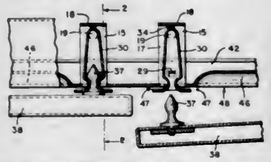
2,169,691

IMPOSITIVE LOCK

Samuel Hammer, Brooklyn, N. Y., assignor to United Metal Box Co., Inc., Brooklyn, N. Y., a corporation of New York

Application December 20, 1938, Serial No. 246,782

5 Claims. (Cl. 292—17)



1. In an impositive lock for a cabinet or the like comprising a keeper adapted to be mounted on a door of a cabinet, means for yieldably engaging said keeper and adapted to be mounted on the cabinet, said engaging means comprising in combination a pair of hingeably cooperating inside and outside members, said inside member comprising a rounded base terminating in a pair of relatively yieldable keeper engaging portions, and said outside member comprising a pair of lugs upon which the inside member is hinged through cooperation with the rounded base of said inside member, and yieldable means adapted to secure said keeper engaging elements to said cabinet.

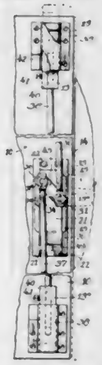
2,169,692

DOOR LOCK

Augie L. Hansen, Chicago, Ill., assignor to A. L. Hansen Mfg. Co., Chicago, Ill., a corporation of Illinois

Application March 14, 1938, Serial No. 195,803

1 Claim. (Cl. 292—5)



In a locking mechanism, a frame including a base plate spaced in parallel relation therewith and a cover plate, a manually operable control shaft rotatably supported in said base plate, a pivotally movable locking piece fixed on said shaft between said base plate and said cover plate and having a portion thereof swingable into extended locking position beyond said frame, a pair of pivot pins carried by said locking piece and extending on opposite sides of said cover plate, a pair of push rods pivotally connected to said pins and extending in opposite directions from said frame, reciprocably movable locking bolts connected at the outer ends of said push rods so as to be operative simultaneously with said locking pièce, and a leaf spring interposed between the outer face of said cover plate and the ends of said push rods and movable with the latter to yieldingly urge said locking piece into bearing engagement with the under face of said cover plate.

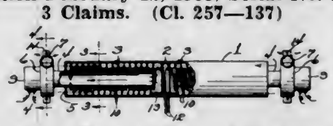
2,169,693

AIR COOLING AND CIRCULATING DEVICE FOR VEHICLES

David R. Haynes, Burlington, Iowa

Application February 12, 1938, Serial No. 190,334

3 Claims. (Cl. 257—137)



1. An air cooling and circulating device for motor vehicles, comprising a housing having open ends providing air inlets, partitions dividing the housing into separate compartments, cooling coils within each compartment, cooled air receiving tubes within the compartments and

extending through the air inlets of the housing, blower means mounted on the outer ends of the tubes for drawing the cooled air therethrough and forcing the same from the blower means, and means for mounting the device within the body of the vehicle adjacent the top thereof for directing the cooled air along the upper portion of the body.

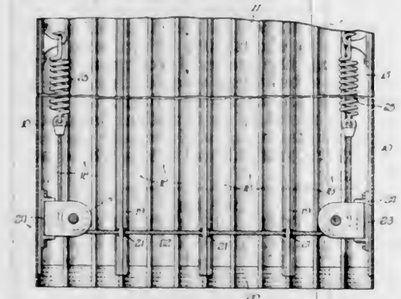
2,169,694

RAILWAY CAR VESTIBULE DIAPHRAGM

Hugh H. Hendrickson, Elkhart, Ind., assignor to The Adlake Company, Chicago, Ill., a corporation of Illinois

Application May 13, 1936, Serial No. 79,561

4 Claims. (Cl. 105—15)



1. The combination with an extensible diaphragm, of spring tensioned cables extending horizontally through guides associated with the sides of the diaphragm intermediate its ends for supporting the diaphragm intermediate its ends, and means at the ends of the diaphragm for supporting the spring-tensioned cables.

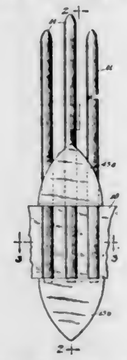
2,169,695

GRILLE GUARD

Jesse Hollins, Brooklyn, N. Y.

Application August 25, 1937, Serial No. 160,743

2 Claims. (Cl. 293—55)



1. In a radiator grille guard applied to an automobile bumper, a plurality of support elements having opposing apertures forming a partial enclosure for said bumper, upstanding spaced grille bars passing through the apertures of, and carried on said support elements, and forming with the same, an enclosure for said bumper, means acting on said support elements for interlocking the support elements and said grille bars, and means for locking the interlocked support element and grille bar assembly to said bumper.

2,169,696

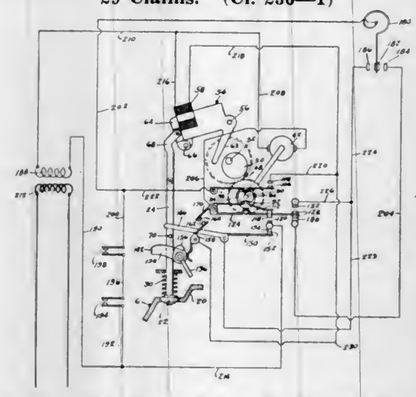
ELECTRICALLY OPERATED HEATER CONTROL

Clifford Hotchkiss, Bellwood, Ill., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application April 28, 1932, Serial No. 608,008

Renewed February 3, 1938

29 Claims. (Cl. 236—1)



1. In combination, a heater, a member controlling the heat supplied thereby, an electric motor, means responsive to a heater condition for controlling said electric motor, means including an electro-magnet connecting said motor and said heat control member to move the latter between a position in which it supplies a lesser amount of heat and a position in which it supplies a greater amount of heat, means associated with said positioning means for returning said heat control member to its position in which it causes the heater to supply a lesser amount of heat, upon the occurrence of power failure while said member is in position to supply a greater amount of heat, and manually operable means for setting said heat control member in a position in which it supplies a greater amount of heat while such power failure obtains.

27. In combination, a main burner, a pilot burner, a valve controlling the flow of fuel to said main burner, means biasing said valve to closed position, an armature connected to said valve, an electromagnet adapted to hold said armature and said valve in valve open position against the action of said biasing means, but incapable of moving said armature into engagement therewith when released, means responsive to the temperature of the pilot burner for controlling the energization of said electromagnet, and means for moving said electromagnet into engagement with said armature when the latter has been released and subsequently moving said electromagnet, said armature, and said valve to valve open position, if said electromagnet is again reenergized.

2,169,697

DRILL STEM COUPLING

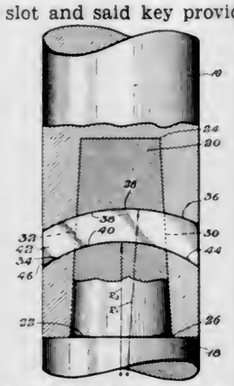
Charles Kangas, Embarrass, Minn.

Application April 22, 1938, Serial No. 203,687

2 Claims. (Cl. 287—119)

2. A drill stem or rod connection comprising separable complementary pin and socket members provided with a transversely disposed uniformly curved arcuate slot and a uniformly curved key in said slot for locking the pin and socket members together, the uniform curva-

ture of said slot and said key providing for the



insertion and removal of the key without deformation thereof.

2,169,698

PROPELLED AND DIRIGIBLE FISH BAIT OR LURE

Jackson Guy Lancaster, Farmville, Va.

Application August 23, 1938, Serial No. 226,349
5 Claims. (Cl. 43—43)



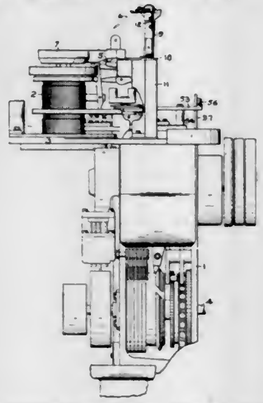
1. A fish bait of the character described, comprising in combination, a flexible cable, means for rotating said cable, a bait attached to the cable and a propeller directly upon the cable and separated from the bait, said propeller lying in advance of the bait and between the bait and the rotating means of the shaft.

2,169,699

DEVICE FOR FEEDING YARN

Robert H. Lawson, Pawtucket, Isaac H. C. Green, Central Falls, and Arthur N. Cloutier, Lonsdale, R. I., assignors to Hemphill Company, Central Falls, R. I., a corporation of Massachusetts

Application May 1, 1936, Serial No. 77,398
8 Claims. (Cl. 66—132)



8. In a knitting machine, the combination of a yarn furnishing device operable periodically to advance a yarn in accordance with the demands for the same, and means for releasing the yarn prior to its engagement by knitting machine needles and binding the same after being withdrawn from the needles and in timed sequence with the advancing of the yarn by the furnishing means.

2,169,700

LUBRICANT

Clarence M. Loane, Whiting, and Bernard H. Shoemaker, Hammond, Ind., assignors to Standard Oil Company, Chicago, Ill., a corporation of Indiana

No Drawing. Application November 2, 1936, Serial No. 108,833
17 Claims. (Cl. 87—9)

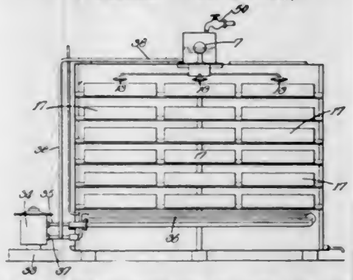
1. An improved extreme pressure lubricant comprising a mineral lubricating oil and from about 0.05% to about 10% of an organic compound having the general formula $R(Y)_n$ in which R is a substituent selected from the group consisting of an aliphatic group, an aromatic group and a metal, Y is a radical selected from the group consisting of a thiocyano radical and an isothiocyano radical and n is a whole number greater than 1.

2,169,701

APPARATUS FOR THE GERMINATION OF SEEDS AND THE GROWTH OF SEEDLINGS

Henry Hilton Blair Lund, London, England

Application March 20, 1937, Serial No. 132,055
In Great Britain March 26, 1936
7 Claims. (Cl. 47—16)



1. A soil-less cultivation cabinet for the germination of seeds and the growth of seedlings and including heating means for heating the interior of the cabinet and a plurality of trays therein for the reception of the seeds and seedlings, comprising at least one group of trays arranged one above the other, a source of fertiliser liquid, means for periodically releasing a predetermined quantity of such liquid, a sprinkling means arranged one above each group of trays and a connection between the sprinkling means and the means for periodically releasing a predetermined quantity of fertiliser liquid to allow the latter to be supplied to the top tray of a group, each tray having a perforate horizontal lower wall.

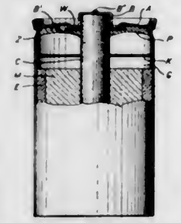
2,169,702

DRY CELL

Paul A. Marsal, Lakewood, Ohio, assignor to National Carbon Company, Inc., a corporation of New York

Application March 18, 1936, Serial No. 69,503
9 Claims. (Cl. 136—133)

1. A galvanic cell comprising a container electrode; an inner electrode therein; a metal closure permanently secured to said container electrode and supported by said inner electrode; insulating means between a portion of said closure and one of said electrodes; and a unitary relatively thick solidified mass of thermoplastic moisture-repellent material permanently adhering to and covering at least a portion of the interior surface of said closure and the adjoining interior surface portion of one of said electrodes and also bridging



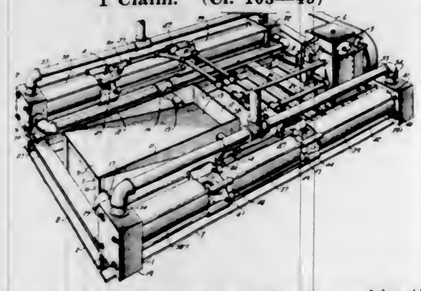
and internally covering the joint between said closure and such adjoining electrode portion, said unitary mass being electrically non-conductive and constituting the sole means for internally sealing said joint and for resisting creepage of electrolyte to and across said joint.

2,169,703

PUMPING APPARATUS

Richard C. Mason, Tulsa, Okla.

Application October 26, 1936, Serial No. 107,511
1 Claim. (Cl. 103—45)



A pumping apparatus including in combination with a fluid driving pump of reversible flow type and means for actuating same; spaced high and low pressure pumping units each consisting of a motor having a piston, lines operatively connecting the motors of each unit with said driving pump at opposite ends of the motors to reciprocate the pistons in response to actuation of the driving pump, a driven pump at each end of the motors having a piston connected with the corresponding motor piston and arranged to reciprocate in the driven pumps in response to reciprocation of the motor pistons by the driving pump, a source of supply of material to be pumped, material supply and exhaust lines in each driven pump communicating with the source of supply and a point of delivery respectively, valves controlling flow through said supply and exhaust lines to and from said driven pumps, and valves in said motor lines allowing actuation of said units separately and simultaneously.

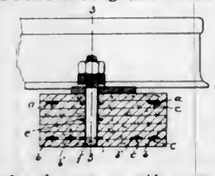
2,169,704

SLEEPER FOR RAILWAYS, TRAMWAYS, AND THE LIKE OF CEMENT-ASBESTOS WITH METALLIC REINFORCEMENTS

Adolfo Mazza, Genoa, Italy

Application September 22, 1936, Serial No. 101,905
In Italy April 25, 1936
4 Claims. (Cl. 238—91)

1. In a reinforced sleeper for railways and the like, including a plurality of distinct superposed cement-asbestos sheets having longitudinally disposed metal reinforcing bars inserted therein, the



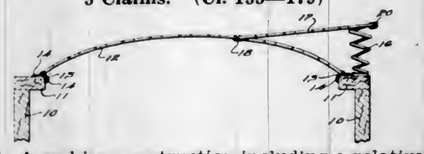
feature of having cementing material between said distinct sheets and these sheets closely adherent under initially highly compressed and permanently compacted and bonded condition.

2,169,705

SPRING DEVICE

Andrew Mouw, Ann Arbor, Mich., assignor to No Sag Spring Company, Detroit, Mich., a corporation of Michigan

Application November 6, 1936, Serial No. 109,424
5 Claims. (Cl. 155—179)



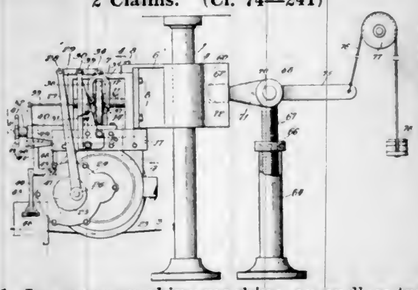
1. A cushion construction including a relatively rigid base frame, a plurality of arcuately disposed sinuous spring elements extending from side to side of said frame, and a plurality of resilient elements of zig-zag formation having depending portions, the ends of said portions being mounted on said frame, the other ends of said elements being connected to said sinuous elements at a point intermediate its ends.

2,169,706

GUIDE CONTROL MECHANISM

William C. Nash, Neenah, Wis., assignor to Gilbert & Nash Company, Neenah, Wis., a corporation of Wisconsin

Application January 24, 1936, Serial No. 60,590
2 Claims. (Cl. 74—241)



1. In a paper making machine, an endless travelling flexible carrier, a pair of upright supports adjacent opposite edges of the return-run of said flexible carrier, carriages slidably mounted on said supports, a guide roll resting transversely upon the upper surface of the return-run of said flexible carrier, and having its ends supported by said carriages, whereby said roll is urged against the flexible carrier by its own weight and the weight of said carriages, means associated with said guide roll for maintaining the flexible carrier in longitudinal alignment, said means

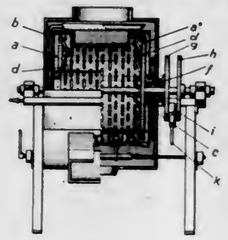
being responsive to transverse shifting of the flexible carrier for automatically shifting one end of said guide roll in a substantially horizontal plane to change its transverse position relative to the flexible carrier, and yielding means for urging the carriages downwardly in a vertical plane on said supports for maintaining the flexible carrier at substantially constant tension.

2,169,707

PEELING MACHINE FOR POTATOES, ETC.

Fritz Obermeit, Leipzig, Germany

Application June 15, 1937, Serial No. 148,279
In Germany June 17, 1936
3 Claims. (Cl. 146—49)



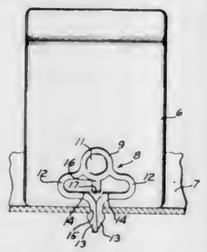
1. A peeling machine for tuberous and rhizocarpous plants, particularly potatoes, comprising a machine frame, a cylindrical receiving drum for the plants to be peeled stationarily disposed in said frame, a rotatable driving shaft arranged in said frame and within said drum, vertical peeling discs of smaller diameter than the diameter of the drum secured on said shaft in said drum at a distance from each other somewhat smaller than the diameter of the drum and forming the end faces of the drum, and overlapping curved sectional elements with abrading surfaces positioned on the inside of the peeling discs and operating on the surface of the plants to peel the same.

2,169,708

SECURING DEVICE

Jerome J. O'Callaghan, Chicago, Ill., assignor, by mesne assignments, to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application January 27, 1936, Serial No. 60,984
5 Claims. (Cl. 24—213)



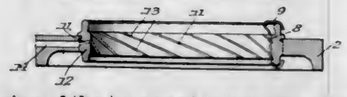
3. A device for securing one member to another comprising a portion for permanent attachment of the device to one member, a pair of arms extending from said portion and having edge portions adjacent to their ends for passage through an aperture in the other member and for engagement therewith and at least one of said arms having a loop of such length and shape as to permit relative longitudinal movement of its edge portion relative to said permanently attached portion for the purposes described.

2,169,709

RING FOR SPINNING, DOUBLING, OR TWISTING FRAMES

Thomas Kilpatrick Powrie, Paisley, Scotland

Application January 10, 1938, Serial No. 184,296
In Great Britain January 21, 1937
4 Claims. (Cl. 57—120)



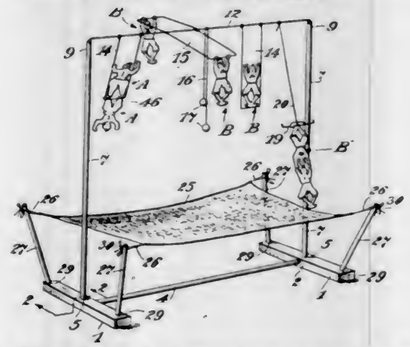
1. A ring of the type used in spinning, doubling or twisting and adapted to support a traveller, and having a plurality of separate lubricant retaining grooves on its inner surface, the grooves extending across that portion of the inner surface of the ring with which the body of the traveller contacts when rotated about the ring, each of the grooves having two definite ends, one end being at a higher level than the other.

2,169,710

TOY

Samuel S. Schmidt, York, Pa., assignor to Grey Iron Casting Company, Mount Joy, Pa., a corporation of Pennsylvania

Application January 29, 1937, Serial No. 122,917
9 Claims. (Cl. 46—130)



4. An acrobatic toy comprising a jointless preshaped life-like figure having a body and legs, each of said legs having a portion extending outwardly from the side of the figure providing means cooperating with other portions of the figure for holding the figure on a trapeze or the like.

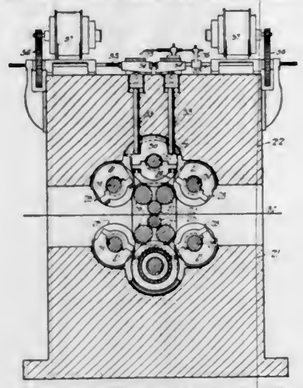
2,169,711

ROLLING MILL ADJUSTMENT

Tadeusz Sendzimir, Katowice, Poland, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Application July 16, 1935, Serial No. 31,697
14 Claims. (Cl. 80—38)

1. In combination in a mill, a pair of working rolls, backing means for said working rolls comprising other rolls of equivalent length and supporting means for said backing rolls, said supporting means comprising interspaced rollers of less than equivalent length, means for varying the position relative to the mill housing of a plurality of said supporting means simultaneously to vary the effective screw down of said mill, and means for varying the position of certain of said supporting means simultaneously to vary the effective crown of said working roll.

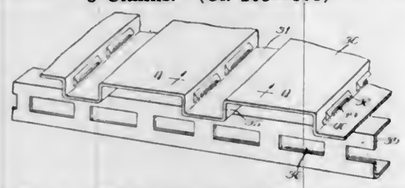


2,169,712

REFRIGERATOR CAR FLOOR RACK

Vinton E. Sisson, Winnetka, Ill., assignor, by mesne assignments, to Standard Railway Equipment Manufacturing Company, a corporation of Delaware

Application October 25, 1937, Serial No. 170,742
5 Claims. (Cl. 105—375)



1. In a refrigerator car having an insulated floor, a foraminous floor above the insulated floor, a space between said floors and ice associated with other elements of the car to induce an air current in said space upon melting thereof, said ice being positioned so that the melted ice will drain upon said insulated floor, said foraminous floor comprising a metallic plate formed with portions in an upper plane alternating with portions in a lower plane connected by webs, said webs being provided with upwardly inclined louvers projecting into the spaces below the portions in the upper plane whereby the service movements of the car will not cause the melted ice to splash through the foraminous floor.

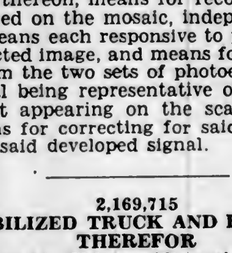
2,169,713

DOUBLE WINDOW CONSTRUCTION

Charles E. Stroud, Ford City, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application June 17, 1937, Serial No. 148,687
5 Claims. (Cl. 20—56.5)

1. In combination in a double window construction, a pair of glass sheets in parallel with yielding spacing and sealing means therebetween around their margins, a frame in which the sheets are seated, removable ledge members on each side of the frame each having a flange in opposition to the edge of the glass sheet and having a base portion fitting into the frame in interlocking engagement therewith but releasable therefrom when its flange is tilted toward the glass sheet, and wedges between said flanges and the glass sheets which they oppose, such flanges having their inner faces inclined to fit the inclination of the wedges, and the wedges and spacing means being under compression.

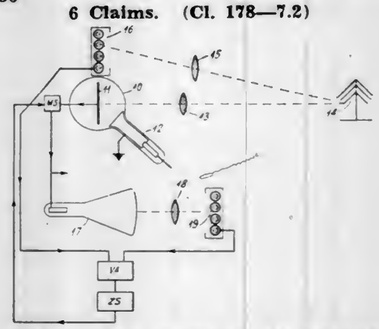


2,169,714

BLACK SPOT CORRECTING MEANS

Rudolf Urtel, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application May 13, 1937, Serial No. 142,348. Renewed January 6, 1939. In Germany May 13, 1936
6 Claims. (Cl. 178—7.2)



1. Apparatus for correcting for spurious signals occurring in cathode ray apparatus wherein an optical image is projected onto a mosaic comprising a plurality of independent photoelectric means adapted to respond to said optical image projected thereon, means for reconstructing the view formed on the mosaic, independent photoelectric means each responsive to portions of the reconstructed image, and means for delevoping a signal from the two sets of photoelectric means, said signal being representative of the spurious component appearing on the scanning mosaic, and means for correcting for said spurious signal from said developed signal.

2,169,715

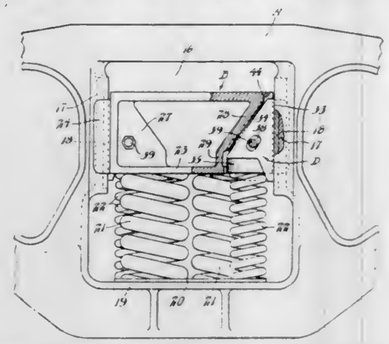
STABILIZED TRUCK AND BOLSTER THEREFOR

Edwin W. Webb, Chicago, Ill., assignor to Standard Car Truck Company, Chicago, Ill., a corporation of New Jersey

Application September 23, 1937, Serial No. 165,289
5 Claims. (Cl. 105—193)

4. In a car truck, a side frame having a lateral bolster opening therein and having columns adjacent said bolster opening, a bolster received within said bolster opening, bolster springs supporting said bolster from said side frame, wedges interposed between the sides of said bolster and

said columns, said wedges having integral bolster contacting surfaces of rounded contour for rolling contact with the sides of said bolster and



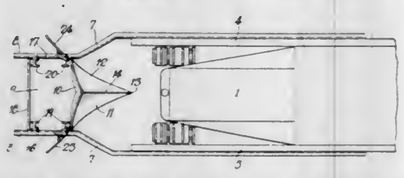
stabilizing springs of materially less capacity than said bolster springs supporting said wedges on said side frame.

2,169,716

TRENCH DIGGER

Otto Werner, College Point, and Joseph Helenek, Flushing, N. Y., assignors of one-third to said Werner, one-third to said Helenek, and one-third to John J. Makofske, Hempstead, N. Y.

Application December 1, 1938, Serial No. 243,313
5 Claims. (Cl. 37—98)



1. A trench digger comprising: a motor driven tractor supported on its opposite sides on movable conveying means for preventing longitudinal and lateral tilting of said tractor with respect to the ground, a projecting framework rigidly mounted thereon, a trench digging device rigidly secured to said framework and disposed laterally between said conveying means, said device including an excavating shield having an inclined central ridge and oppositely sloping sides, spaced moldboards extending rearwardly of said shield, and earth displacing vanes extending from the rear of said shield above the ground line.

2,169,717

COATING COMPOUND

George H. Young, Pittsburgh, Pa., assignor to Stoner-Mudge, Inc., a corporation of Pennsylvania

No Drawing. Application March 7, 1938, Serial No. 194,324
8 Claims. (Cl. 260—86)

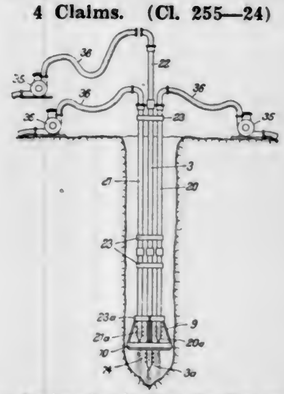
1. A thermally stabilized coating compound consisting of a polymer of a substance corresponding to the formula $CH_2=CHX$, in which X is a substance of a group consisting of the halogens, the hydroxyl group, and the monocarboxylic acyloxyl groups, and a cyclic nitrogen base nitrogen base selected from a group consisting of the quinoline and isoquinoline alkaloid bases.

2,169,718

HYDRAULIC EARTH-BORING APPARATUS

Karl Böll, Berlin, and Arthur Edelhoff, Berlin-Schoneberg, Germany, assignors to Spreng- und Tauchgesellschaft m. b. H., Berlin-Schoneberg, Germany, a corporation of Germany

Original application April 1, 1937, Serial No. 134,281. Divided and this application July 9, 1938, Serial No. 218,290. In Germany July 29, 1935
4 Claims. (Cl. 255—24)



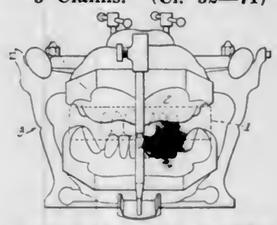
1. In a device for boring in the earth, a plurality of uncommunicating pipes in sections, means for holding said pipes together as a unit, a flushing nozzle on each pipe, and means for connecting each pipe to a separate water supply.

2,169,719

METHOD OF SELECTING ARTIFICIAL TEETH

Alden J. Bush, Columbus, Ohio

Application April 17, 1936, Serial No. 74,995
3 Claims. (Cl. 32—71)



1. The method of selecting artificial teeth for use in prosthetic dentistry, which comprises utilizing a flexible transparency having delineated thereon actual size outlines of one or more rows of related teeth, and placing said transparency immediately adjacent to a dental arch having an edentulous region so that the outlines of the teeth on the transparency register with said region, and then visually determining the physical adaptability of artificial teeth having the characteristics of said outlines to the edentulous region and adjacent teeth.

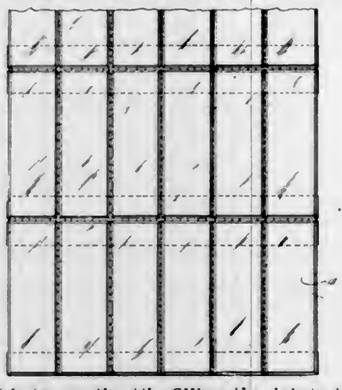
2,169,720

GLASS TILE

Nils Herman Cederquist, Los Angeles, Calif.

Application March 5, 1938, Serial No. 194,084
9 Claims. (Cl. 72—18)

1. A tiled panel comprising a layer of fibrous material applied to the surface over which the tile is applied, tiles positioned against the fibrous material, each tile having a beveled outer edge and grouting material penetrating the fibrous



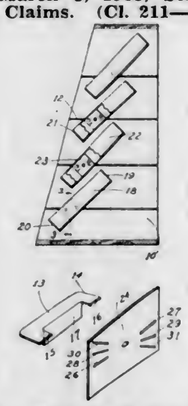
material between the tile filling the joints therebetween and extending forwardly onto the beveled edges so as to be dovetailed in form and serving to attach the tiles to the fibrous material.

2,169,721

ADJUSTABLE DISPLAY SHELVING

Nils Herman Cederquist, Los Angeles, Calif.

Application March 5, 1938, Serial No. 194,085
7 Claims. (Cl. 211—128)



3. Adjustable display shelving comprising a supporting structure presenting opposed walls, there being substantially horizontal grooves in the walls, shelves disposed between the walls, there being a plurality of sockets in each end of each shelf, and keys selectively receivable in the sockets having portions receivable in the grooves whereby the position of each shelf with respect to its keys may be varied and each shelf may be supported by its keys upon the walls.

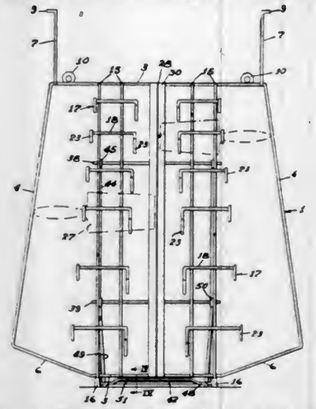
2,169,722

BRUSH DISPLAY RACK

Kent D. Currie, Baltimore, Md., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania

Application January 4, 1938, Serial No. 183,248
3 Claims. (Cl. 211—65)

1. A brush display rack comprising a skeleton frame of wire braced by spaced pairs of vertical wires secured to the frame, a plurality of brush supports secured to each pair of vertical wires, a panel independent of the brush supports secured to the frame and extending outwardly therefrom



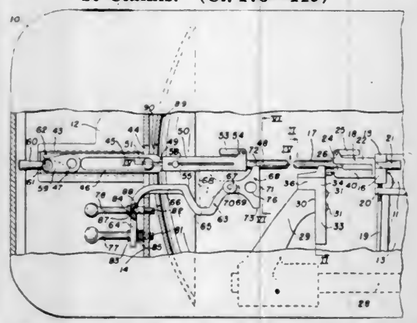
to divide it into equal sections, and means for supporting the rack substantially in vertical position.

2,169,723

ADJUSTABLE ELECTRODE MOUNT

Frank C. Desormeaux, Forest Park, Ill.

Application June 1, 1937, Serial No. 145,753
10 Claims. (Cl. 176—119)



1. In an arc lamp, the combination with confronting mounts for sustaining carbon electrodes, of auxiliary support means spaced from said mounts for supporting said electrodes in horizontal alignment, electrode extension mount supporting means adjustably associated with said confronting mounts, and an auxiliary rest pivotally connected to one of said auxiliary support means and spaced from one of said first named mounts to sustain an electrode in one pivotal position and an electrode extension in another pivotal position.

2,169,724

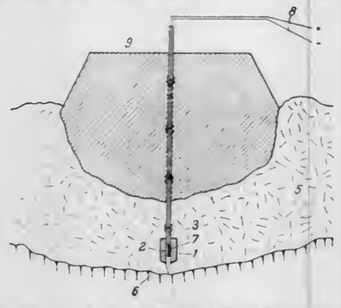
METHOD OF BLASTING MOORY SOIL

Arthur Edelhoff, Berlin-Schoneberg, Germany, assignor to Spreng- und Tauchgesellschaft m. b. H., Berlin-Schoneberg, Germany, a corporation of Germany

Application April 1, 1937, Serial No. 134,280
In Germany June 20, 1935
2 Claims. (Cl. 61—35)

1. The method of making an embankment upon moory soil, which comprises first sinking an unprimed blasting body into the moory soil on the end of a tube, then raising the embankment on

the moory soil around the tube, then passing a primer through the tube into the blasting body,



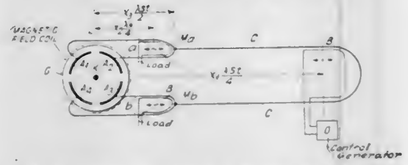
and finally exploding the blasting body by igniting the primer.

2,169,725

MAGNETRON DISCHARGE TUBE OSCILLATOR AND FREQUENCY MULTIPLIER

Karl Fritz, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application November 16, 1937, Serial No. 174,771
In Germany October 13, 1936
7 Claims. (Cl. 250—36)



1. A master-oscillation circuit system adapted for frequency multiplication comprising a split-anode magnetron discharge tube having a number of anode segments divisible by four, means including circuits having resonance at a control frequency interconnecting certain of said segments for causing the same to be operated as control electrodes, and means including a circuit having a resonance frequency harmonically related to that of the aforementioned circuits, and being connected to nodal points on the same for causing all of said segments to be operable as output electrodes.

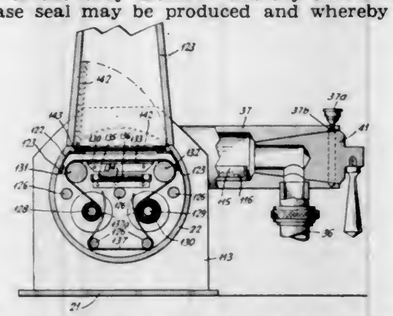
2,169,726

OSCILLOGRAPH APPARATUS

Roscoe Henry George, West Lafayette, Ind., assignor to Radio Corporation of America, a corporation of Delaware

Original application September 14, 1929, Serial No. 392,591. Divided and this application July 10, 1937, Serial No. 152,951
2 Claims. (Cl. 250—141)

1. In a cathode ray oscillograph, an evacuated casing, a passage for communication with the interior of the casing, means for connecting the passage to said casing including a valve comprising a body member having a tapered bore, a port in said body member extending radially with respect to the bore, a tapered plug member rotatable within said body and having passages to register with the bore of the body member and said port, an internal groove in the bore of the body member in a plane normal to the axis of the bore and situated between said port and the end of the body member whereby an air-tight grease seal may be produced and whereby the



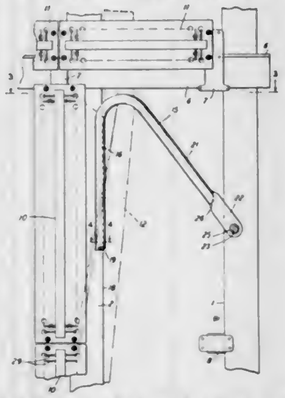
plug may be retained in position by atmospheric pressure against the end thereof.

2,169,727

DISTRIBUTING FRAME

Frank H. Graham, South Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application December 21, 1937, Serial No. 180,935
7 Claims. (Cl. 179—98)



1. A distributing frame having vertical supporting members, horizontal connecting members for said vertical members, and terminal blocks secured to said vertical members, hollow guide hooks having an upright leg and a sloping leg, the upright leg being slotted longitudinally and fitted to one vertical member with a part of this upright entering said slot, and the end of the sloping leg secured to another vertical member, groups of jumper wires running among the frame members and guided between the two legs of the hooks and then fanned out and connected with individual terminals on said blocks, said guide hooks being so located and shaped that the sloping leg throws or guides the jumper wires in the crook of said hook toward the upright leg.

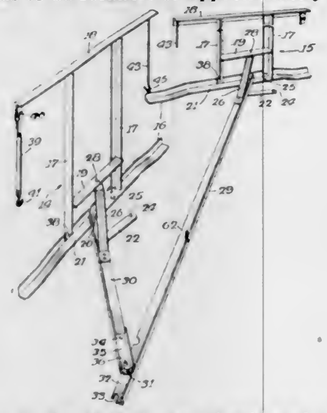
2,169,728

GLIDER

Henry T. Halleran, Roselle, and Robert Carlon, Elizabeth, N. J., assignors to Simmons Company, New York, N. Y., a corporation of Delaware

Application March 22, 1937, Serial No. 132,248
9 Claims. (Cl. 5—129)

9. A collapsible glider frame comprising a tie rod horizontally foldable upon itself to reduced length, and a pair of end members normally occupying planes extending transversely of said tie rod, said end members being respectively connected to the opposite end portions of said tie rod so as to be foldable to approximately parallel



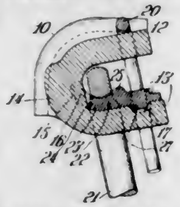
relation to the tie rod, one of said end members being foldable to the front of the tie rod and the other end member being foldable to the rear of said tie rod, whereby when said tie rod is folded upon itself, both of said members are disposed on the same side of the folded tie rod.

2,169,729

WEAR PLATE FOR BRAKE HANGERS

Victor H. Harbert, Chicago, Ill., assignor to Illinois Railway Equipment Company, Chicago, Ill., a corporation of Illinois

Application December 18, 1936, Serial No. 116,495
3 Claims. (Cl. 188—209)



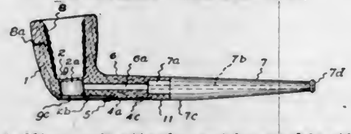
1. A wear plate for brake hangers adapted to be inserted in the brake hanger receiving socket of a truck frame, said plate on its upper face having a hanger receiving groove while the rear side and the bottom side of the plate are provided with socket wall interengaging portions.

2,169,730

FILTER-UNIT ATTACHMENT FOR TOBACCO PIPES

Edward H. Lange, Baltimore, Md.

Application August 12, 1937, Serial No. 158,812
15 Claims. (Cl. 131—202)



1. A filter-unit attachment in combination with a tobacco-pipe having a tobacco-bowl member, a hole through the bottom of the tobacco-bowl, and a smoke-transmission conduit opening into the side of said hole, said filter-unit attachment having an expansible member for tightly and concentrically fitting said hole, an orifice for registering with the said opening of the smoke-transmission conduit into said hole, and a pivoted member pivotally fastened to said expansible member, for readily covering and uncovering the bottom of said hole.

2,169,731

PIN FOR ARTIFICIAL TEETH AND METHOD OF MAKING SAME

Glen M. Lease, York, Pa., assignor to The Dentists' Supply Company of New York, New York, N. Y., a corporation of New York

Application July 14, 1938, Serial No. 219,121
4 Claims. (Cl. 29—160.6)



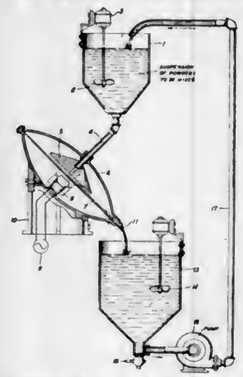
1. The method of providing a dental pin with solder for connecting same in an artificial tooth, comprising the steps of providing a block of solder with integral side wings, then abutting the end of the pin with said block, then folding said wings against the side surface of said pin, and then swaging said wings into said pin body.

2,169,732

METHOD OF MAKING MAGNETIC BODIES

Victor E. Legg, Maplewood, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application August 17, 1937, Serial No. 159,475
2 Claims. (Cl. 91—68)



1. The method of insulating magnetic dust particles carried in suspension in a liquid medium including an insulating material for said particles, which method comprises agitating said medium to place said particles in suspension in said medium, directing said medium through a zone of restricted cross-sectional area, subjecting said medium while passing through said zone to trains of compressional elastic waves of high frequency, and subsequently drying said particles.

2,169,733

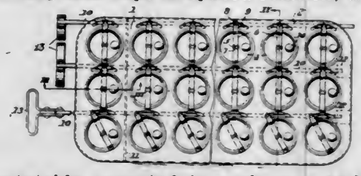
FREEZING TRAY

David Hoppenstand, Glenshaw, Pa., assignor to Hopkan Rivet Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania

Application August 13, 1935, Serial No. 35,944
3 Claims. (Cl. 62—108.5)

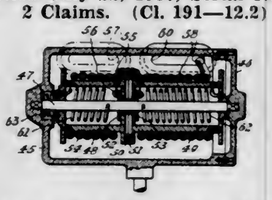
1. An ice mold comprising a plurality of cups

adapted to receive water to be frozen, means for supporting said cups in spaced relation, a mem-



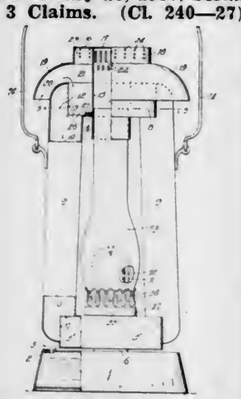
ber rotatably mounted in each cup, and other means for raising a mass of ice frozen in each cup when the rotatable member thereof is rotated.

2,169,734
CORD RETRIEVER
David Hoppenstand, Fox Chapel, Pa.
Application July 22, 1937, Serial No. 154,975
2 Claims. (Cl. 191—12.2)



1. A cord retriever comprising a unitary casing, a cover removably secured to one end of said casing, a shaft of conducting material journaled in said casing and cover, a reel rotatable on said shaft, a cable coiled on said reel, a slip ring of conducting material on said reel and insulated from said shaft, and means on said reel composed of conducting material but insulated from said slip ring, having sliding contact with said shaft, the conductors of said cable being connected respectively to said slip ring and to said means, and a second reel similar to that first mentioned, rotatably mounted on said shaft having a cable thereon similarly connected thereto, said casing enclosing both reels, and means for urging one reel toward the other to maintain the slip rings of the two reels in contact with each other.

2,169,735
LANTERN
William J. Keller, St. Louis, Mo.
Application February 20, 1937, Serial No. 126,796
3 Claims. (Cl. 240—27)



3. A lantern having, in combination, a lower air distributing chamber for supplying a burner with air, an upper annular open top air supply chamber, tubes conducting air therefrom to the lower air distributing chamber, an upper annular hot air chamber disposed directly above and spaced from the annular air supply chamber to provide an underlying space for the inlet of fresh outside air to the annular air supply chamber, a draft tube and draft tube openings for the escape of hot air and gaseous products of combustion from said draft tube to the hot air chamber, and hot air outlets for the hot air chamber.

2,169,736
ALKYLOLAMINO-METHYLENE COMPOUND AND METHOD OF MAKING
Jean G. Kern, East Aurora, N. Y., assignor to National Aniline and Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application August 11, 1936, Serial No. 95,481
10 Claims. (Cl. 260—456)

1. As new products the compounds having the general formula:

$$\left(HO-R_1-\underset{R_3}{\overset{R_2}{N}}-\underset{R_4}{\overset{R_3}{C}}-OSO_2-\right)_x Am$$

wherein R_1 represents a member of the group consisting of alkylene, cycloalkylene, hydroxy-alkylene, and polyhydroxy-alkylene radicals; R_2 represents a member of the group consisting of hydrogen, alkyl and cycloalkyl radicals, and the radical Ho-R_1; R_3 represents a member of the group consisting of hydrogen and alkyl radicals; R_4 represents a member of the group consisting of hydrogen and alkyl radicals and, only when R_3 represents H, aryl radicals; Am represents a member of the group consisting of hydrogen and metal atoms; x is an integer which equals the valence of Am; and z is an integer less than 3.

2. A chemical compound of the group ethanol-amino-methylene sulfurous acid and its alkali-metal salts.

2,169,737
DIAZO-AMINO COMPOUND AND METHOD OF MAKING SAME
Jean G. Kern, East Aurora, N. Y., assignor to National Aniline and Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application August 11, 1936, Serial No. 95,482
7 Claims. (Cl. 260—140)

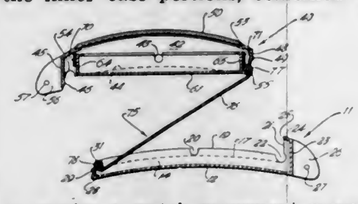
1. Compounds of the general formula

$$\left(Ar-N=N-\underset{R_3}{\overset{HO-R_1\ R_2}{N}}-\underset{R_3}{\overset{}{C}}-OSO_2-\right)_x Am$$

wherein Ar represents the aromatic residue of a diazotizable aromatic amine; R_1 represents an alkyl, cyclo-alkyl, hydroxy-alkyl, or polyhydroxy-alkyl group; R_2 represents hydrogen or an alkyl group; R_3 represents hydrogen or an alkyl group or, when R_2 represents H, an aryl group; Am represents hydrogen or a metalatom; and x is an integer equal to the valence of Am.

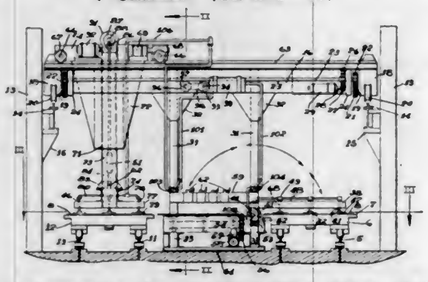
2,169,738
ADJUSTABLE WATCHCASE FOR WRIST WATCHES
Frank S. Moody, Los Angeles, Calif.
Application June 2, 1938, Serial No. 211,386
4 Claims. (Cl. 58—88)

4. A watch case for wrist watches including a front and an inner case portion which when nested and with a bracelet form a closed wrist watch and bracelet, the inner case portion having side walls and a link connecting the front and the inner case portions, combined with a



tray to receive a watch movement mounted in the front portion of the case, the said side walls of the inner portion of the case having a frictional engagement with the tray when the case is in the nested position, the said link when the case is nested fitting below the said tray.

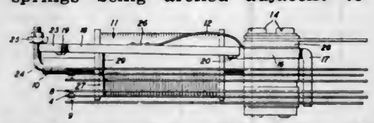
2,169,739
APPARATUS FOR MANIPULATING GLASS PLATES
William Owen, Pittsburgh, Pa., assignor to Pittsburgh Plate Glass Company, Allegheny County, Pa., a corporation of Pennsylvania
Application September 8, 1937, Serial No. 162,909
7 Claims. (Cl. 214—87)



1. Apparatus for manipulating glass plates comprising a pair of parallel trackways, cars upon the trackways, a bridge disposed over the trackways above the cars, a support dependent from the bridge between the trackways, a turnover frame having vacuum cups for holding the glass plates upon one side, said turnover frame being mounted to rotate about an axis parallel to the trackways from a position in which the cups are faced downward and engage the plates upon a car upon a track to a position in which the cups are faced upward and the frame lies intermediate the trackways, a pick-up frame having downwardly facing vacuum cups and means to move the pick-up frame from a position over the turnover frame when the latter is disposed with the cups facing upward, to a position over a car upon the second track and means to raise and lower the pick-up frame.

2,169,740
RELAY
Robert L. Peek, Jr., Townley, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 25, 1937, Serial No. 160,776
1 Claim. (Cl. 175—345)

In an electromagnet structure having a heel piece, a core extending forwardly therefrom and a coil on said core, an armature in the form of a hollow rectangle surrounding said coil and cooperating at its ends with the forward and rear ends of said core, and a pair of cantilever springs having their rear ends secured to said heel piece and their forward ends attached to the side members of said armature at points intermediate the forward and rear ends thereof, said springs being arched adjacent to their

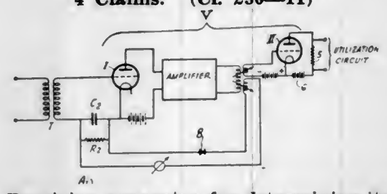


points of attachment to said heel piece with the concave side toward said armature to permit freedom of movement of the rear end of said armature away from the rear end of said core and tensioned to normally hold the rear end of said armature out of engagement with said core whereby said armature is adapted to move toward said core at both of its ends upon the energization of said coil.

2,169,741
PROCESS FOR THE MANUFACTURE OF ALLOYS AND IN PARTICULAR OF FERRO-ALLOYS OR OF INOXIDIZABLE STEELS
René Perrin, Paris, France, assignor to Societe d'Electrochimie d'Electrometallurgie et des Acieries Electriques d'Ugine, Paris, France, a corporation of France
No Drawing. Application July 11, 1938, Serial No. 218,627. In France July 22, 1937
7 Claims. (Cl. 75—27)

5. In the process of making an alloy by reacting an oxygen compound of the alloy metal, a silicon reducing agent and lime, the steps which comprise charging a portion of the reagents into a mixing receptacle in the molten state and the remainder in the solid state, and violently mixing the reagents by pouring them back and forth from one chamber to another a plurality of times to initiate and maintain the reaction between the reagents, the portion of the reagents added in the solid state being sufficiently small as to produce a molten fluid slag.

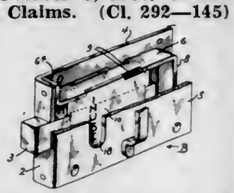
2,169,742
RECEIVING APPARATUS FOR DIRECTION FINDING
Hans Scharlau, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application January 25, 1936, Serial No. 60,767
In Germany January 17, 1935
4 Claims. (Cl. 250—11)



1. Receiving apparatus for determining its position in reference to a radio beam transmitter, comprising two directional antennae disposed with their directive axes at a fixed angle to each other, means for so orienting said antennae as a unit as to comprehend within said fixed angle the line of propagation of a wave coming from said transmitter toward said receiving apparatus, an

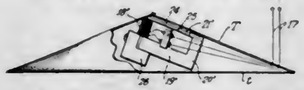
amplifier, a signal responsive indicator, means including a change-over switch for alternately connecting said amplifier and indicator to first one and then the other of said antennae at a predetermined switching rhythm, and means having a time constant suitably adjusted to said switching rhythm for causing the gain in said amplifier to be so controlled by said wave that the antenna which delivers the stronger signal substantially shuts off the response of said indicator to the weaker signal, when the latter is delivered by the other antenna.

2,169,743
DOOR LOCK
Walter R. Schlage, San Francisco, Calif., assignor to Schlage Lock Company, San Francisco, Calif., a corporation of California
Application October 8, 1937, Serial No. 167,993
2 Claims. (Cl. 292—145)



1. In a latch mechanism of the character described a housing composed of a front and a pair of connected side plates, a frame disposed between the side plates of the housing, said frame including upper and lower arms and said arms being recessed on opposite sides to form upper and lower pairs of guideways, a pair of sliding plates disposed between the arms within the housing, each plate having upper and lower lugs projecting into the guideways to limit sliding movement of the plates, a latch bolt having a recess formed on each side to receive a portion of each sliding plate, pairs of lugs on each end of each sliding plate engaging upper and lower faces of the latch bolt and supporting the latch bolt between the sliding plates, and means projecting through the housing for imparting a sliding movement to the plates and the latch bolt carried thereby.

2,169,744
SOUND-REPRODUCING SYSTEM
Sterling G. Sears, Garden City, N. Y., assignor to Dictograph Products Company, Inc., New York, N. Y., a corporation of Delaware
Application December 7, 1936, Serial No. 114,621
2 Claims. (Cl. 179—109)



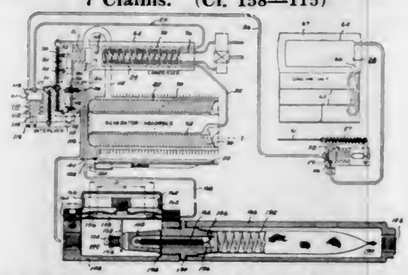
1. In a loudspeaker, the combination of a portable enclosed casing, at least one side of which forms an extended member adapted to be electrically vibrated for the propagation of sound at audible volume and at voice frequencies, a vibrating mechanism in the casing comprising members arranged in the form of a tuning fork, one of the prongs thereof being secured to the said extended member for reactively imparting vibrations thereto, electro-magnetic driving means disposed between the prong members of the said mechanism at the open end thereof, and means for imparting mechanical mass and stiffness to the said vibrating mechanism to alter the frequency response of the system.

2,169,745
PROTECTIVE MASK
Emanuel F. Shipman, Philadelphia, Pa.
Application December 13, 1937, Serial No. 179,580
4 Claims. (Cl. 2—8)



1. A protective mask comprising a frame having upper and lower dome segments, said frame consisting of arcuate strips adjoining said dome segments and vertical channel members extending between said arcuate strips and having their bottoms at the outside of said lower strip whereby a flexible window is readily replaceable therein, a flexible window having its sides sprung into said vertical channel members and having its upper end underlying said upper arcuate strip and its lower end overlying said lower arcuate strip, and means for preventing the lower edge of said window from dropping below said lower arcuate strip.

2,169,746
REFRIGERATING APPARATUS
Harry F. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application June 30, 1936, Serial No. 88,153
7 Claims. (Cl. 158—115)

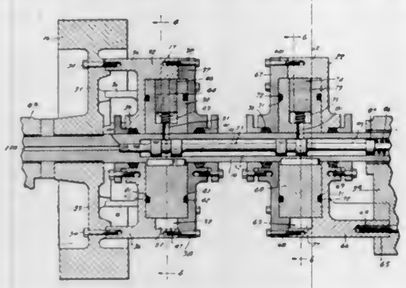


1. A heating means including a burner, a pilot for lighting the burner, conduit means for conducting fuel to the pilot and to the burner, valve means for controlling the flow of fuel to the burner independently of the pilot, pressure regulating valve means for regulating the pressure at which the fuel is conducted to the pilot, said pressure regulating valve means having a diaphragm control means, said valve means including means for exposing one effective area of said diaphragm control means to the pressure of the fuel supply to the pilot and for exposing another effective area of said diaphragm control means to the burner pressure.

2,169,747
POWER PRESS
Ross B. Treer, Lakewood, Ohio, assignor to The Cleveland Punch & Shear Works Company, Cleveland, Ohio, a corporation of Ohio
Application February 23, 1937, Serial No. 127,183
3 Claims. (Cl. 192—144)

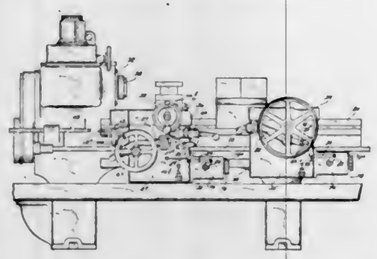
1. In a device of the character described, the

combination of a frame, a shaft rotatably supported by said frame, an inner body rigidly secured to said shaft, a rotatable outer body surrounding said inner body and providing an eccentric interspace therebetween, means carried by one of said bodies dividing said eccentric interspace into compartments, fluid in said compartments, a passageway connecting said compartments, a valve in said passageway, a second inner body member rigidly secured to said shaft in spaced relation to said first mentioned inner body member, a stationary outer body member, rigidly



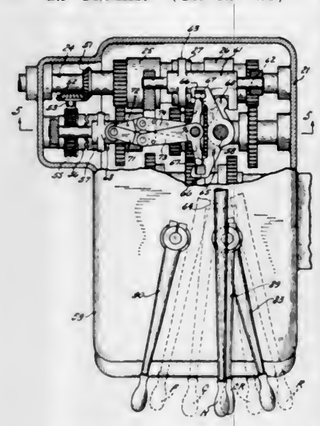
secured to said frame, surrounding said second inner body member and providing an eccentric interspace therebetween, means dividing said second mentioned interspace into compartments, fluid in said compartments, a passageway connecting said second mentioned compartments, a valve in said second mentioned passageway, means for simultaneously operating said valves to restrict the flow of fluid through one of said passageways and to increase the flow of fluid through the other of said passageways, and means for rotating said rotatable outer body member.

2,169,748
MACHINE TOOL
John J. N. Van Hamersveld, Cleveland Heights, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application December 28, 1937, Serial No. 182,104
41 Claims. (Cl. 29—46)



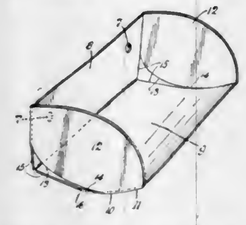
1. In a machine tool having a movable part, a drive for said part, change speed gearing for imparting different rates of feeding movement to said drive and part, a power source for said gearing, means for connecting and disconnecting said gearing and said drive including a feed control lever, mechanism for shifting said gearing to obtain different rates of feeding movement for said part, and means interconnecting said mechanism and said control lever such that movement of the latter actuates said mechanism.

2,169,749
MACHINE TOOL
John J. N. Van Hamersveld, Cleveland Heights, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio
Application June 16, 1938, Serial No. 214,036
12 Claims. (Cl. 82—29)



1. In a machine tool having a part to be moved and a power source, change speed gearing for varying the rate of movement of said part, a main clutch for connecting said change speed gearing, and said power source for imparting a plurality of different rates of movement to said part, an auxiliary clutch for connecting said power source to said change speed gearing to impart to the latter a relatively slow rate of movement to facilitate the shifting thereof, and mechanism for engaging and disengaging said clutches and including a single control member movable from a neutral position wherein both clutches are disengaged first to a position wherein the auxiliary clutch is engaged while the main clutch remains disengaged and then to a position wherein the main clutch is engaged and the auxiliary clutch disengaged.

2,169,750
CONVEYER BUCKET FOR ELEVATORS AND THE LIKE
Burt I. Weller, Highland, Ind.
Application August 24, 1938, Serial No. 226,406
5 Claims. (Cl. 198—152)



1. An elevator bucket having a back wall, a floor and end pieces joining them, the end pieces being each apertured adjacent the intersection of the floor and the back wall, the aperture being bounded at its back by the back wall, at its bottom by the floor, and at its top by a convex curve whose radius of curvature decreases from the front to the back of the bucket.

2,169,751
BRAKE RIGGING
Frederick G. Williamson, Swissvale, Pa., assignor to The American Brake Company, Swissvale, Pa., a corporation of Missouri
Application October 11, 1938, Serial No. 234,445
7 Claims. (Cl. 188—58)



1. In a railway vehicle truck comprising a truck frame resiliently supported on spaced wheel and axle assemblies, the combination of braking surfaces rotatable with the wheel and axle assemblies, brake rigging secured to the truck frame and including a pair of brake shoes associated with each braking surface for applying clasp brakes thereto, and means for applying to the inside shoe associated with each braking surface a greater force than is applied to the outside shoe to minimize tipping of the truck frame caused by engagement of the shoes with the braking surface when a brake application takes place.

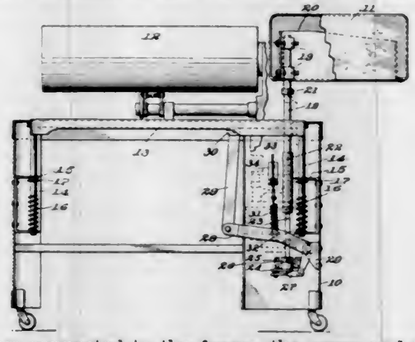
2,169,752
FURNITURE
Andrew S. Wright, Springfield, Mass.
Application December 10, 1937, Serial No. 179,128
1 Claim. (Cl. 211—149)



A fireplace screen comprising in combination, a vertical frame member having a substantially horizontal base, a pair of leaf members within said frame member, pivotal connections between said frame member and opposite ends of said leaf members whereby said leaf members are swingable between a vertical position and a horizontal position, a vertically-disposed connecting member of a certain length having its upper end portion hinged to the upper one of said leaf members adjacent a side edge thereof and its intermediate portion hinged to the lower one of said leaf members adjacent a side edge thereof and its lower end portion extending freely downwardly therefrom, said connecting member being movable with said leaf members between a position substantially in parallelism with and closely adjacent the under surfaces of said leaf members when the same are in vertical position and a position substantially at right angles to said leaf members when the same are in horizontal position, the lower end portion of said connecting member being relatively yieldable and said base and the lower end portion being provided with engageable parts which are adapted to be urged into releasable engagement when said leaf members are swung to horizontal position.

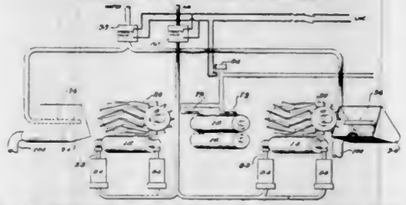
2,169,753
IRONING MACHINE CABINET
Henry W. Altorfer, Peoria, Ill.
Application July 13, 1936, Serial No. 90,374
8 Claims. (Cl. 312—26)

6. A container for an instrument such as an ironer, comprising a frame, a vertically movable support for the instrument in said frame, an instrument on said support, a cover for the instrument mounted on said frame, and lever mecha-



nism connected to the frame, the cover and the support whereby, when the cover is swung horizontally to uncover the instrument, the support is raised simultaneously to a position of use, and vice versa.

2,169,754
FLESHING MACHINE
Henry E. Beyster, Detroit, Mich., assignor to A. C. Lawrence Leather Company, Peabody, Mass., a corporation of Maine
Application November 23, 1936, Serial No. 112,321
11 Claims. (Cl. 149—19)

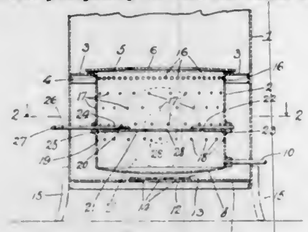


7. A leather working machine comprising a pair of spaced working rolls for engaging and operating on the leather, a pair of feed rolls located between the working rolls, work supporting rolls for supporting the work opposite the working rolls, means for moving the supporting rolls toward and away from the working rolls, and controlling devices for said means including a plurality of electric switches responsive to relative movement of said feed rolls towards and away from each other.

2,169,755
BURNER FOR LIQUID FUEL
James L. Breese, Santa Fe, N. Mex., assignor to Oil Devices, Santa Fe, N. Mex., a limited partnership of Illinois
Original application February 8, 1937, Serial No. 124,695. Divided and this application September 11, 1937, Serial No. 163,370
6 Claims. (Cl. 158—91)

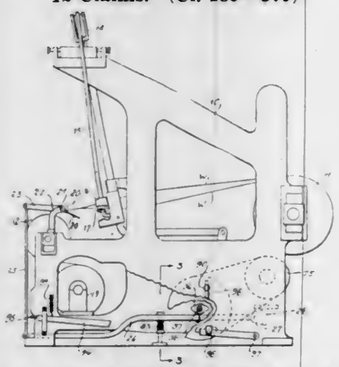
1. A mechanism for burning liquid fuel which includes a chamber and means for admitting a liquid fuel to the bottom thereof, a wall for said chamber provided with a plurality of air apertures positioned above the level of the liquid fuel, and a baffle ring rotatably positioned in said chamber intermediate the top and bottom thereof for rotation about a generally horizontal axis, said ring having a central aperture, and a fixed

baffle ring having an aperture conforming generally to the periphery of the movable ring and



lying generally in the plane of the axis of rotation of said movable ring.

2,169,756
LOOM STOPPING DEVICE
Edward J. Buell, Niagara Falls, N. Y., and Francis D. Martin, Niagara Falls, Ontario, Canada, assignors to Lindsay Wire Weaving Company, Cleveland, Ohio, a corporation of Ohio
Application March 11, 1936, Serial No. 68,186
In Canada March 11, 1935
12 Claims. (Cl. 139—370)

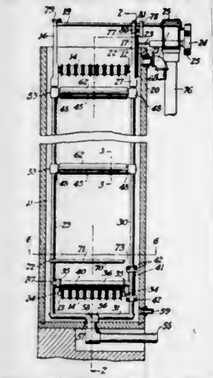


1. In a loom of the fly-shuttle type having a batten associated therewith, means for actuating the batten after each throw of the shuttle, an oscillating finger disposed on each side of the woven fabric and means for operating the fingers in timed relationship to each throw of the shuttle so as to contact an improperly laid weft thread, an electric circuit adapted to be closed upon engagement of the finger with such thread and mechanism controlled by the closing of said circuit for stopping the batten.

2,169,757
TEXTILE YARN
John R. Caldwell, Kingsport, Tenn., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 20, 1937, Serial No. 132,119
2 Claims. (Cl. 28—1)

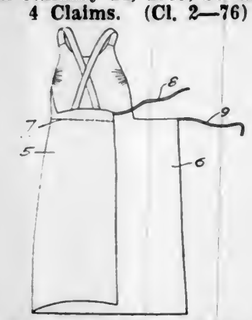
1. A highly flexible yarn which is resistant to abrasion and especially adapted for use as warp in the manufacture of light fabrics and for other textile purposes, comprising filaments each composed of a cellulose organic acid ester core and a size coating thereon composed of a water-soluble cellulose organic acid ester having the same dyeing characteristics as the material of the core and containing a plasticizer which penetrates into and is permanently occluded by the material of the core, thereby to render the yarn highly flexible and to give it anti-static properties.

2,169,758
SPRAY RACK
John G. Capstaff, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
Application May 28, 1938, Serial No. 210,672
17 Claims. (Cl. 95—94)



1. In a film treating apparatus, the combination with a fluid treating compartment through which a film strip is arranged to be moved, of a rack having a tubular portion extending into said compartment, means for supplying, a treating fluid to said portion, means carried by said rack for moving said strip through said compartment, and spray means carried by said portion adjacent said strip for spraying the treating fluid onto said strip as the latter is moved through said compartment.

2,169,759
GARMENT
Dorothy Beale Cleveland, Los Angeles, Calif.
Application January 14, 1939, Serial No. 251,025
4 Claims. (Cl. 2—76)



1. In a garment having a skirt with a front panel and side panels which overlap at the rear, a plurality of shoulder straps attached to the front panel and to one of the side panels, the other side panel being free of shoulder straps.

2,169,760
SPRING COVER
George W. Crabtree, Cleveland Heights, Ohio
Application June 27, 1936, Serial No. 87,633
6 Claims. (Cl. 267—37)

1. A metallic spring cover for laminated vehicle

springs comprising a series of channular sections spaced slightly from each other at their adjoining edges, a connector strip arranged within said sections and proportioned to overlap said adjoining sections, means at the end of said connector strip



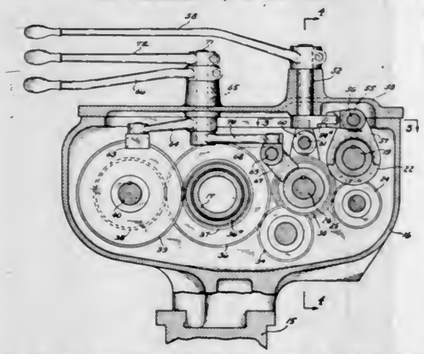
and adjacent the adjoining edges of said sections to secure said sections to each other comprising apertures formed in said sections and co-operating prongs carried by said strip interlocked with said apertures.

2,169,761

CHANGE SPEED MECHANISM FOR MACHINE TOOLS

Adolph L. De Leeuw, Plainfield, N. J., assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application November 20, 1936, Serial No. 111,830
12 Claims. (Cl. 82—29)



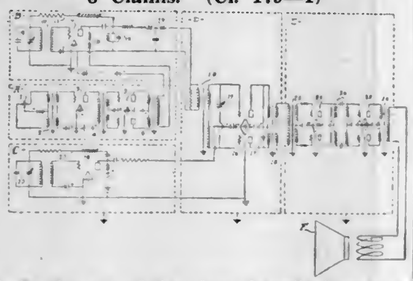
1. In a machine tool having a part to be moved at different rates and a substantially constant speed power source, change speed means for varying the rate of movement of said part, means for connecting and disconnecting said power source and said change speed means, a control member for said connecting and disconnecting means, and an auxiliary means for connecting and disconnecting said power source and said change speed means for imparting to the latter an additional relatively slow power drive to facilitate the shifting thereof, said control member being operatively connected to and controlling said auxiliary means.

2,169,762

DEVICE FOR PRODUCING VIBRATO

Samuel W. Kaye, Rocky River, Ohio

Application November 27, 1936, Serial No. 113,067
8 Claims. (Cl. 179—1)



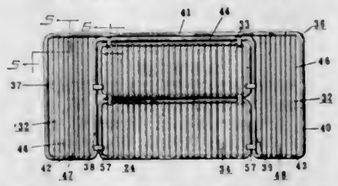
1. In the art of the class described, means for generating and modulating a radio frequency wave by means of an audio frequency wave, means for generating and supplying another radio wave different from the first by an extremely low number of cycles per second, and means for mixing said modulated and unmodulated waves and producing therefrom an extremely low frequency modulation of the audio frequency wave, ready to be transformed into sound.

2,169,763

REFRIGERATING APPARATUS

Andrew A. Kucher, Dayton, Ohio

Application July 20, 1937, Serial No. 154,641
4 Claims. (Cl. 211—153)



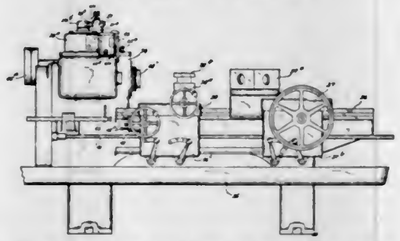
2. A perforate shelf for a refrigerator cabinet, said shelf extending substantially across and substantially throughout the depth of the cabinet, said shelf comprising a main section and a subsection; said main section including an endless wire including four rearwardly horizontally disposed runs spaced from one another, the rear of each outer run being connected with one another by a straight horizontal run, the rears of the inner rearwardly extending runs being connected with one another by a straight horizontal run, said straight runs being secured to one another, the front ends of next adjacent inner and outer runs being each connected with one another by a straight horizontal run, wires supported on the endless wire and disposed between the inner and outer runs so as to provide a plurality of shelf sections spaced from one another; said sub-section including a perforate shelf disposed between the first mentioned spaced shelf sections and having portions disposed at different sides thereof and overlying the inner runs of the main section so as to rest on the main section.

2,169,764

MACHINE TOOL

Max E. Lange and John J. N. Van Hamersveld, Cleveland Heights, Ohio, assignors to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application July 17, 1935, Serial No. 31,854
Renewed June 16, 1939
35 Claims. (Cl. 29—46)



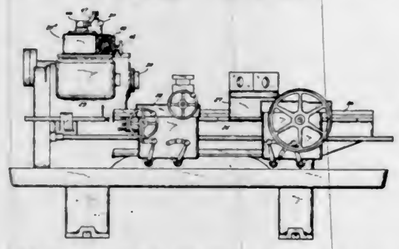
1. In a machine tool having movable parts, one of which is to be moved at different rates of movement in the different operative steps of a complete work cycle, relatively movable means operatively connected with another of said movable parts and including a production log comprising means visually indicating the sequential operative steps of said complete cycle and furnishing the information required by an operator to control the machine through said various steps.

2,169,765

MACHINE TOOL

Max E. Lange, Cleveland Heights, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application October 11, 1935, Serial No. 44,518
45 Claims. (Cl. 82—29)



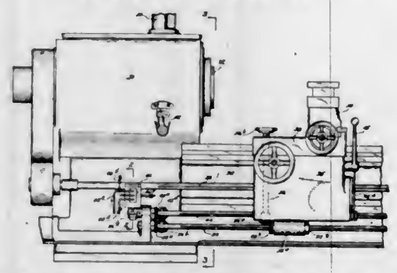
1. An indicator for use with a machine tool and comprising relatively movable members having provision for determining the rates of movement of a movable part of the machine tool in relation to cutting speeds for different diameters of work, and means relatively movable with respect to one of said members and actuated by the relative movement of said members for indicating the sequential operative steps of a work cycle.

2,169,766

MACHINE TOOL

Max E. Lange and John J. N. Van Hamersveld, Cleveland Heights, Ohio, assignors to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application December 11, 1935, Serial No. 53,938
62 Claims. (Cl. 82—29)



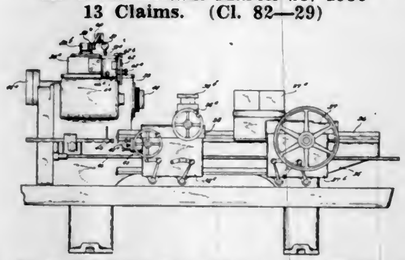
1. In a machine tool having a part to be moved in opposite directions and a substantially constant speed power source, change speed gearing for varying the rate of movement of said part in both directions, means interposed between said power source and said change speed gearing for starting, stopping and reversing the drive to said change speed gearing, a control member for controlling said means, and means for selectively imparting to said part through said change speed gearing and the first-named means either a normal reverse drive to said gearing and part or a relatively slow forward drive to said gearing and part and controlled in part by a movement of said control member to the reverse position.

2,169,767

MACHINE TOOL

Max E. Lange, Cleveland Heights, Ohio, assignor to The Warner & Swasey Company, Cleveland, Ohio, a corporation of Ohio

Application July 1, 1937, Serial No. 151,379
In Great Britain March 23, 1936
13 Claims. (Cl. 82—29)



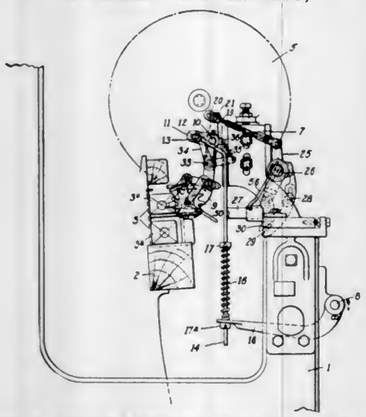
1. In a machine tool having a movable part, means for changing the rate of movement of said part, means operable in one operative step of the machine while said part is moving at one rate of movement for preselecting the rate of movement of said part for the following operative step of the machine, and relatively movable means operatively connected with said preselecting means for indicating to the operator during one operative step the rate of movement to be preselected for said part for the following operative step in a complete work cycle.

2,169,768

WEFT CUTTING AND HOLDING DEVICE FOR LOOMS

John J. McCann, Lowell, and Joseph Stuer, Lawrence, Mass., assignors to William H. Baker, Montreal, Quebec, Canada

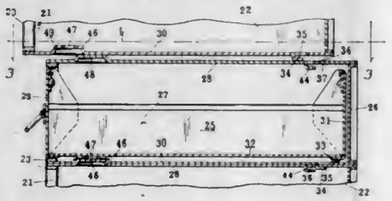
Application January 27, 1937, Serial No. 122,668
6 Claims. (Cl. 139—264)



1. In a shuttle feeler thread cutter and holder in combination, a shuttle feeler, a cutter mounted thereon, a plate associated therewith provided with an angular thread supporting slot, said plate having a portion extending substantially away from the plane of action of said cutter, a thread wheel the periphery of which constitutes a plurality of thread engaging members mounted in frictional contact with said plate and having at least one of said members normally located above the plane of action of said cutter irrespective of the position assumed by said wheel, means to hold said wheel against the plate, and means to

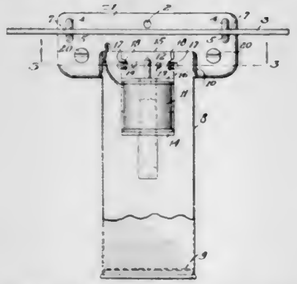
actuate said wheel whereby a thread member is drawn through the plane of action of said cutter to a position against said plate substantially away from the plane of action of said cutter.

2,169,769
CABINET CONSTRUCTION
Walter F. Regenhardt, Cleveland, Ohio
Application July 5, 1938, Serial No. 217,368
8 Claims. (Cl. 312—111)



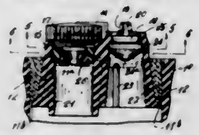
6. A cabinet comprising a plurality of casings, one superimposed on another, one of said casings having a sheet metal bottom wall and another casing having a sheet metal top wall; a tongue on one of said walls, the other of said walls having an opening for receiving the tongue when the upper of said casings is slid rearwardly into position, said tongue being arranged to engage the inner surface of the wall having the opening when the upper casing is lifted after said upper case is in position; and interlockable means disposed adjacent the front of the casings for preventing sliding movement of the casings with respect to one another after the tongue is received in the opening.

2,169,770
SIGNAL DEVICE
Lloyd Rittenhouse, Honeoye Falls, N. Y., assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y., a corporation of New York
Application October 5, 1938, Serial No. 233,357
2 Claims. (Cl. 177—7)



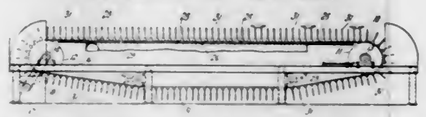
2. In a signal device, the combination with a vertically positionable supporting plate, of a vertically arranged housing located in front of and extending below the supporting plate and constituting a resonance chamber, a chime bar horizontally arranged above said resonance chamber, and electric striker operating mechanism located within the housing for actuating a striker to engage said chime bar, a portion of the rear wall of said housing being secured to said supporting plate and the striker operating mechanism also being directly secured to said supporting plate whereby said supporting plate constitutes a major supporting means for the striker operating mechanism.

2,169,771
STORAGE BATTERY
Samuel W. Rolph, Shaker Heights, Ohio, assignor to Willard Storage Battery Company, Cleveland, Ohio, a corporation of West Virginia
Application June 17, 1938, Serial No. 214,259
5 Claims. (Cl. 136—177)



2. A storage battery cover having a marginal skirt adapted to be fitted into a cell of the battery, said cover having inside the marginal skirt contiguous annular skirt portions one with an unslotted wall extending to substantially the desired liquid level and the other with a slotted wall, said cover having at the top a transverse boss in a portion of which a filling opening is formed in line with the unslotted skirt portion and the remainder of the boss forming a hollow condensing chamber substantially in line with the slotted skirt portion and provided with one or more baffles, the top of the chamber having a hollow protuberance terminating in a relatively small vent opening, and a removable imperforate cap normally closing the filling opening and having means at its lower end for forming a substantially airtight fit on said protuberance when it is applied thereto after being removed from the filling opening.

2,169,772
CONVEYER
Howard V. Schweitzer, Cleveland, Ohio
Original application November 11, 1935, Serial No. 49,167. Divided and this application July 3, 1936, Serial No. 88,795
10 Claims. (Cl. 198—131)

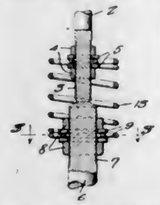


1. The combination of a travelling conveyer of yieldable, flexible material, supporting means for said conveyer comprising spherical elements spaced transversely and longitudinally thereof, and slender elements carried by the conveyer, said elements extending from the conveyer and providing supporting points spaced apart and from the conveyer for supporting articles of ceramic materials so that substantially the entire surfaces of articles resting on said points are substantially unobstructed by the conveyer and by said elements and are accessible for treatment while the conveyer is in motion.

2,169,773
POSITIVE ACTION POPPET VALVE
Harvey A. Slater and Bernerd R. Tarrant, Butte, Mont.
Application March 1, 1937, Serial No. 128,552
2 Claims. (Cl. 123—90)

1. An adjusting means for a positive action poppet valve mechanism comprising a screw-threaded valve stem, a screw-threaded positively actuated valve lifter, and spring means resiliently and adjustably connecting said stem and lifter in aligned position, said last-mentioned means comprising a spring having ends formed into eyes,

said eyes surrounding the threaded portions of the stem and lifter, pairs of washers receiving the eyes of the spring therebetween and mounted on said threaded stem and threaded lifter for adjustment endwise thereof, and pairs of nuts threaded on said stem and lifter forcing the pairs



of washers to tightly grip the eyes of the spring to normally retain the washers and said stem and lifter against relative movement and permit said pairs of washers to be manually adjusted for increasing and decreasing the tension of the spring.

2,169,774
STREAMLINED BASEBALL BAT OR THE LIKE
Thomas Taylor, Carmel, Calif.
Application May 11, 1938, Serial No. 207,355
1 Claim. (Cl. 273—72)

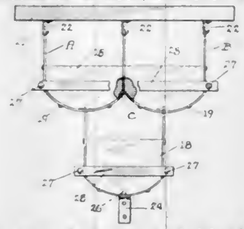


An attachment for a baseball bat comprising an elongated substantially V shaped hollow shell, the arms thereof widest at the outer-end-of-the-bat-contacting portion and decreasing to substantially a point at the bat handle contacting portion, said arms movable about their line of juncture to fit bats of differing diameters; marginal flanges carried by the wide ends of said arms, and a covering plate securable to said flanges.

2,169,775
POULTRY NEST
Joseph Venolia, Spadra, Calif.
Application July 13, 1937, Serial No. 153,388
2 Claims. (Cl. 119—45)

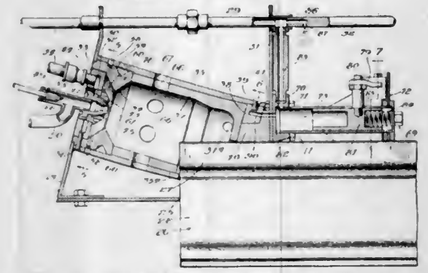
1. A poultry nest formed of a blank having projections at each end thereof, spaced openings formed along its side margin, transverse slots formed in said blank, whereby end pieces having projections formed thereon will engage the openings formed in said blank when said blank is bent to assume an arcuate shape, said end projections forming support engaging connec-

tions, a second blank having projections formed thereon, said second blank being bent to form a side and a bottom of a nest, some of the projec-



tions of said second-mentioned blank entering certain of said transverse slots in said first-mentioned blank, and end pieces secured to said second-mentioned blank to form a nest.

2,169,776
METHOD FOR HARDENING THE ENDS OF RAILWAY RAILS
Frank J. Werner, Porter County, Ind., assignor to Inland Steel Company, Chicago, Ill., a corporation of Delaware
Application November 30, 1936, Serial No. 113,525
2 Claims. (Cl. 148—21)

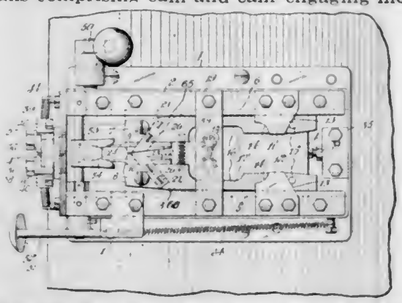


1. The method of hardening the end of a railway rail which is at a temperature below critical temperature comprising directing and confining a heating medium to the end face portion of the head of the rail from its upper extremity to a point above the lower extremity of the head and the adjacent top portion of the rail to heat said portions of the head above the critical, hardening or transformation temperature, and cooling the heated portions of the rail with sufficient rapidity to cause hardening of the portions heated above critical temperature.

2,169,777
MECHANISM FOR AND PROCESS OF ASSEMBLY OF A FLEXIBLE PLUG CAP WITH ITS TERMINALS AND ELECTRICAL CONDUCTORS
Joseph Wertzheiser, Newark, N. J., assignor to Hatfield Wire & Cable Co., Hillside, N. J.
Application January 9, 1935, Serial No. 1,074
13 Claims. (Cl. 29—84)

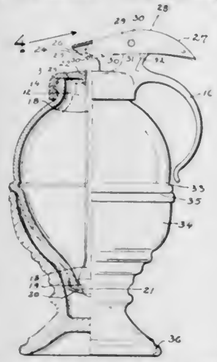
13. In a machine for assembling an electric connector plug comprising a contact prong and a body of insulating material provided with a sinuous opening extending therethrough, a portion of said opening being adapted to receive and position the contact prong in the body, the combination of a base, a plug body holder on said base, a plate reciprocably mounted on said base for movement toward and from said plug body holder, an arm pivotally mounted adjacent its front end on said plate so as to be reciprocable

therewith and rockable transversely of the direction of reciprocation, a finger secured to said arm, projecting forwardly therefrom and adapted to be reciprocated therewith so as to be projected through said plug body opening upon forward movement and retracted therefrom upon reverse movement, means on said finger for engaging the outer end portion of the contact prong to pull the same into said body opening upon said retraction of the finger, and means for causing the front end portion of the finger to approximately follow the course of said sinuous opening during the movement of the finger through the opening, said means comprising cam and cam-engaging means



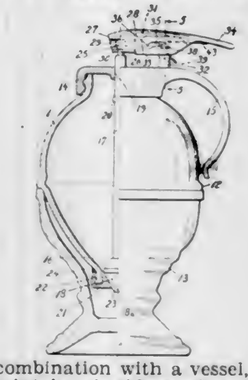
on the rearward end portion of said arm, spring means for causing said arm-engaging means to follow a portion of said cam, and cooperating cam and cam-engaging means intermediate the rearward end portion of said arm and the pivot of the latter, said last mentioned cam and cam-engaging means being operative to supplement said first mentioned cam means to control the rocking movement of said finger when in advanced positions, the cam and cam-engaging means at said rear end portion acting on reverse movement of the arm after the prong has been pulled through the plug, to disconnect the finger from said prong.

2,169,778
DISPENSER
Rudolf Wildermann, New York, N. Y., assignor, by mesne assignments, to The Food Dispenser Company, Hartford, Conn., a corporation of Connecticut
Application November 14, 1936, Serial No. 110,910
21 Claims. (Cl. 221—67)



1. In a dispenser of the kind herein described, a container open at the top and with an outlet at the bottom, said outlet having a valve seat opening downward, a valve in said seat, a valve stem for lifting and lowering said valve, arising in said container, and removable means fitted on the top of said container carrying operating connections connected to the upper end of said stem during operation of said valve and releasing said stem when said means are removed from said container.

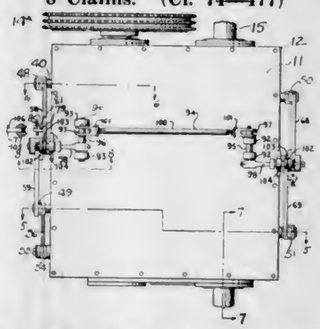
2,169,779
CLOSURE FOR DISPENSERS
Alfred F. Loewe, New York, N. Y., assignor, by mesne assignments, to The Food Dispenser Company, Hartford, Conn., a corporation of Connecticut
Application April 8, 1937, Serial No. 135,675
18 Claims. (Cl. 65—45)



12. In combination with a vessel, with a cover closing an intake of said vessel, and with a valve in said vessel closing an outlet thereof and operated by way of said intake, a lever for operating said valve fulcrumed upon said cover and reversely shiftable upon said cover transversely relative to its fulcrum into and out of operative engagement with said valve.

18. In a device of the character described, a vessel, a valve, and a seat for said valve screwed onto said vessel and spun into said vessel in a screwed-on position.

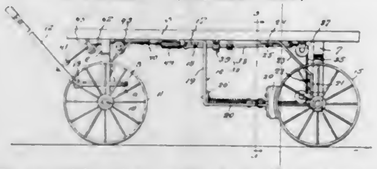
2,169,780
TRANSMISSION INTERLOCK
John Hart Wilson, Wichita Falls, Tex.
Application January 2, 1937, Serial No. 118,821
8 Claims. (Cl. 74—477)



1. The combination in a shifting mechanism for a change speed device of the type which comprises sliding members for establishing and interrupting driving connections between the driving and driven parts, of pivotally mounted levers

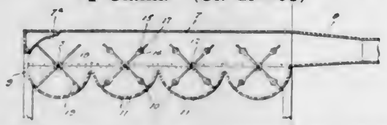
connected to the aforesaid sliding members and movable in spaced parallel planes on opposite sides of said mechanism and means actuated by the movement of said levers whereby the movement of any one of said levers to a position to effect a driving connection acts to lock the remaining levers against like movement, said means comprising a lost motion linkage mechanism extending across said device and interconnecting said levers so constructed that movement of any one of said levers in establishing a driving connection takes up the lost motion provided therein, and so constructed that the force communicated to the lever so moved in attempting to move any of the other levers to such position acts substantially radially with respect thereto.

2,169,781
AUTOMATIC TRUCK BRAKE
William Y. Abresch, Gastonia, N. C.
Application April 7, 1939, Serial No. 266,641
5 Claims. (Cl. 188—119)



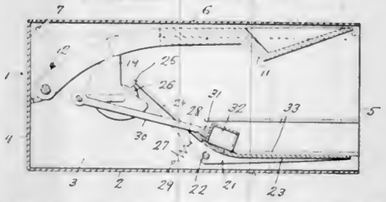
1. In combination with a truck having rear supporting wheels and front supporting and steering wheels, and provided with a vertically swinging tongue for pulling and steering the truck, brake shoes arranged to engage said rear wheels, yieldable means acting to normally engage said brake shoes with said rear wheels, and an operating connection between said brake shoes and said tongue for releasing the brake shoes from said rear wheels when the tongue is lowered, said operating connection including a rod slidably mounted for movement longitudinally of the truck and having means to limit the forward movement thereof to a position wherein the brake shoes are released, and a yieldable connecting means between said rod and said tongue for permitting further lowering of the handle to a convenient pulling position after the brake shoes have been released.

2,169,782
COTTON CLEANING MACHINE
Henry T. Ahrens, Charlotte, Tex.
Application May 27, 1938, Serial No. 210,502
1 Claim. (Cl. 19—93)



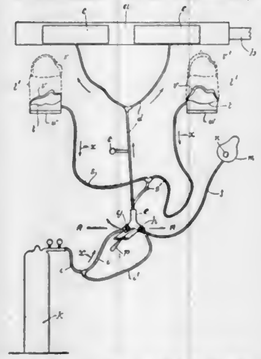
In a cotton cleaning machine an elongated casing adapted to have cotton to be cleaned to be passed therethrough, said casing being provided at one end with an inlet and at the opposite end with an outlet, and said casing also having a bottom wall composed of a series of integral perforated concaves, and beaters rotatably mounted in the casing opposite each concave, each of all of said beaters except one of said beaters comprising a shaft having a plurality of paddles arranged thereon, said paddles being arranged in pairs with the paddles of alternate pairs disposed at right angles to the paddles of intermediate pairs, and the said one of said beaters embodying an elongated hub having blades radiating therefrom, said blades being of a length slightly less than the width of said casing and being formed of rubber, and each of the paddles of the first-named beaters embodying a shank having an enlarged head at the free end thereof and a wiping blade secured to said head, said head being provided with a groove accommodating one edge of the wiping blade, and said wiping blade being formed of rubber and having wiping engagement with a concave to sweep the dirt and dust through the perforations in the concave.

2,169,783
RODENT TRAP
Willard W. Allen, Augusta, Ill.
Application June 4, 1937, Serial No. 146,481
Renewed February 16, 1939
3 Claims. (Cl. 43—75)



1. A rodent trap including a deadfall, a treadle, and means to automatically operate said deadfall repeatedly under control of said treadle, and including a reactive motor, a crank shaft beneath said deadfall and operative by said motor, a cam fast on said shaft for engagement with the underside of said deadfall and operative as an incident to single revolution cycles of operation thereof to elevate and release said deadfall, and cooperating trip devices on said shaft and treadle, respectively, for blocking operation of said shaft and cam at the end of each cycle of operation thereof.

2,169,784
APPARATUS FOR PRODUCING ARTIFICIAL RESPIRATION
Anders Christian Niels Andersen, Odense, Denmark
Application July 23, 1937, Serial No. 155,264
In Denmark August 8, 1936
3 Claims. (Cl. 128—29)



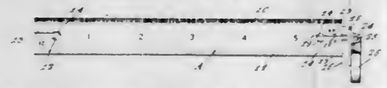
1. In combination with apparatus for producing artificial respiration by the aid of a belt fitted with elastic air cushions adapted to lie against the sides of the chest of the patient, means where-

by the arms of the patient may be mechanically raised and lowered, such means comprising air cushions adapted to be placed under the patient's arms, a valve box adapted for connection with a pressure fluid supply, a valve-actuating handle connected with said valve box, a face mask, and tubular connections with said belt and arm cushions, face mask and valve box; the arrangements being such that on said vlave-actuating handle being moved in one direction connection is opened between the belt cushions and face mask and between the pressure fluid supply and arm lifting cushions, and when the handle is moved in reverse direction said connections are closed and connection is established between the pressure fluid supply and belt cushions and between the arm lifting cushions and the atmosphere.

2,169,785

HEAD FOR MACHINISTS' SCALES

Juan C. Ayala, Monterrey, Mexico
Application September 13, 1938, Serial No. 229,766
1 Claim. (Cl. 33—173)

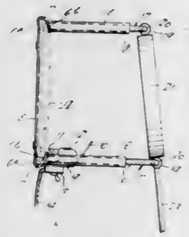


The combination with a scale blade having measuring indicia thereon and also provided with a slot-like substantially keyhole shaped socket opening through one end thereof, of a head comprising a body of a thickness greater than the thickness of the said scale blade, and inherently resilient jaws carried by said body in spaced parallel relation to each other and having external formations corresponding to the socket for separably engaging the same on insertion of the said jaws in the socket.

2,169,786

READING GLASS SUPPORT FOR MAP HOLDERS

Henry Baum, Bowling Green, Ohio, assignor of one-half to Edward B. Richard, Bowling Green, Ohio
Application August 19, 1936, Serial No. 96,719
1 Claim. (Cl. 88—39)

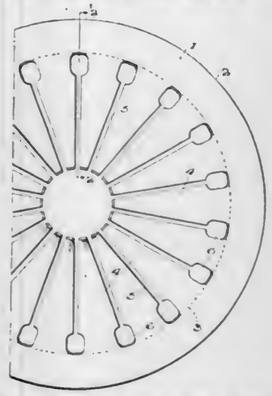


In a device of the kind described for supporting and focusing a reading glass over an outwardly arched portion of a map, a base, spaced pairs of tubular posts rigidly set on the base in rectilinear spaced relation, a pair of U-shaped yokes having their legs slidably mounted in the posts, tubular members rotatably mounted on the bights of the yokes, and a magnifying glass rigidly secured at its opposite margins to and between the said tubular members, whereby the legs of the yokes may be independently pulled out or pushed in and the glass may be tilted in either direction and held in any adjusted position by friction, as focused upon any point of the arched map.

2,169,787

SPRING DEVICE

Sylvan J. Becker, Lake Bluff, Ill., assignor to The Associated Spring Corporation, Bristol, Conn., a corporation of Delaware
Application May 26, 1938, Serial No. 210,286
8 Claims. (Cl. 267—1)



1. A spring device comprising a coned spring plate having a circular series of radial slots therein, each terminating at its outermost end in an enlarged aperture, the boundary wall of each of such apertures including at least one rectilinear portion, said rectilinear portion being at the radially outermost part of said aperture.

2,169,788

VEHICLE BODY

Hans Rolf Berndt, Chemnitz, and Reinhold Erhard Conrad Schulz, Berlin-Spandau, Germany, assignors to Auto Union Aktiengesellschaft, Chemnitz, Germany
Application March 6, 1937, Serial No. 129,456
In Germany March 7, 1936
6 Claims. (Cl. 296—31)



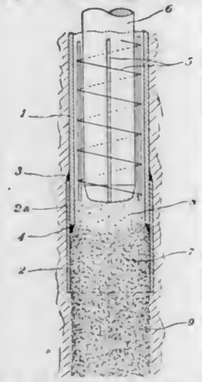
1. The method of making vehicle bodies from artificial resin which comprises, forming substantial panel parts for the body of laminations of artificial resin and continuous paper webs impregnated with artificial resin, pressing said layers into the desired shapes to form composite compact panels, curing the resin while the layers of the panels are compact to homogeneously unite the paper webs, and thereafter securing said parts together to form the finished vehicle body.

2,169,789

METHOD OF CONSTRUCTING FOUNDATION PILES

Raymond Bertrand, Brussels, Belgium, assignor to Compagnie Internationale des Pieux Armés Frankignoul, Société Anonyme, Liege, Belgium
Application April 1, 1937, Serial No. 134,421
In Belgium April 1, 1936
2 Claims. (Cl. 61—57)

1. A method of constructing foundation piles in the earth wherein underneath pressure is presend by the aid of a preparatory tube having a tubular extension member embracing the lower end thereof which comprises, driving the tube into the ground to the desired depth, introducing a first charge of concrete into the tube and compressing the charge within the extension member until the required final degree of compression is obtained so as to force the concrete of the first

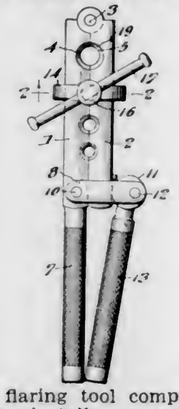


charge against the inner wall of the extension member before withdrawing the tube, and thereafter concreting the body of the pile by compressing successive charges of concrete within the extension member until each charge has received the final required degree of compression and driving each batch of concrete out of the tube after compression while the preparatory tube is withdrawn a distance for receiving the next batch of concrete.

2,169,790

TUBE FLARING TOOL

Louis C. Cattoi, Hurley, Wis., assignor to E. Edelmann & Co., Chicago, Ill., a corporation of Illinois
Application February 21, 1938, Serial No. 191,801
3 Claims. (Cl. 153—79)

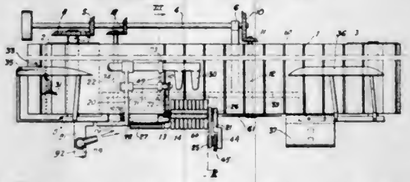


1. A tube flaring tool comprising, a pair of jaw members pivotally connected together and having grooved recesses registering when the jaws are brought together thus forming tube end receiving and clamping openings, a handle extension at the swinging end of one jaw member, link means swingably mounted on said jaw member adjacent to the handle extension, clamp means at the swinging end of said link means for clamping the free ends of the jaws, a clamp operating handle movable to operative relation juxtapositioned to said handle extension and available with said extension as a hand grip portion for handling and manipulation of the tool, and tube flaring means on said jaw members.

2,169,791

METHOD OF AND MACHINE FOR EVISCERATING FISH

Paul Danielsson, Pitea, Sweden, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden, a joint-stock company
Application November 18, 1936, Serial No. 111,548
In Sweden November 7, 1934
18 Claims. (Cl. 17—3)

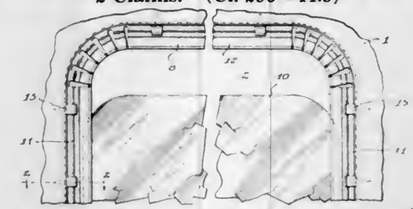


4. In a fish-eviscerating machine, a carrier, means for vibratorily working the cut head end portion of a fish in said carrier exteriorly to work part of the entrails out of the cut head end, and means for pulling the entrails by said part out of the body of the fish.

2,169,792

GLASS RUN CHANNEL ASSEMBLY

Roy H. Dean, Detroit, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application July 12, 1937, Serial No. 153,114
2 Claims. (Cl. 296—44.5)



1. In an automotive vehicle body having a frame with a rabbet defining a window opening and a window panel slidable in said opening, a glass run adapted for guiding and sealing the said panel along the side and top edges comprising a U channel member having top and side portions adapted to be positioned in said rabbet respectively along the top and sides of the said window frame, and a plurality of spaced snap fasteners for securing the said U channel member to the said window frame, each consisting of a dovetail male member fixed to the base of said U channel member and a spring clip female member fixed to the bottom of the rabbet in said window frame and adapted to have a snap-in interengagement with the said dovetail male member.

2,169,793

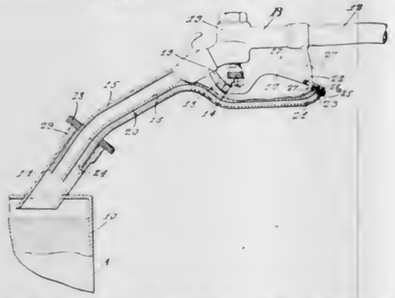
PROCESS OF TREATING GLYCERIDES

Frederick E. Dearborn, Washington, D. C.; dedicated to the free use of the Public in the territory of the United States
No Drawing. Application February 11, 1937, Serial No. 125,274
1 Claim. (Cl. 260—399)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

A process of producing new insecticidal and

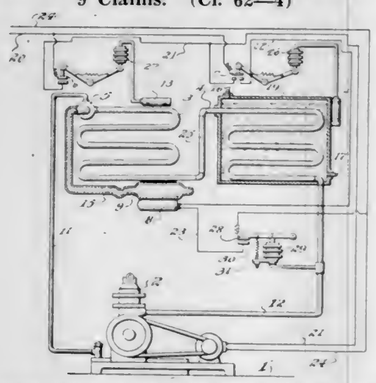
fungicidal sulphur compounds of the glycerides of the long chain unsaturated fatty acids, which process comprises introducing sulphur into the double bonds of the glyceride by heating the glyceride with sulphur at a temperature of 135° to 220° C., using iodine as a catalyst.

2,169,794
GASOLINE FILLER HOSE NOZZLE
Hugh H. Donovan, Montgomery, Ala.
Application May 23, 1938, Serial No. 209,559
3 Claims. (Cl. 226—66)



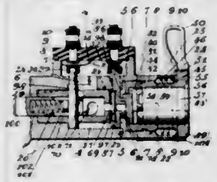
1. The combination of a dispensing nozzle having a plunger with a flow control valve therein, an air escapement tube exteriorly of said nozzle for alignment wth the control valve and spaced therefrom, a signaling device within said tube and operated by air flow therethrough, and a movable lever forming a trigger arranged within the space between the control valve and said tube for operating the said control valve and the opening and closing of said tube simultaneously.

2,169,795
WATER-COOLING APPARATUS AND METHOD
Adolph F. Evers, Jr., Denton, Tex.
Application January 28, 1939, Serial No. 253,465
9 Claims. (Cl. 62—4)



1. Refrigerating apparatus comprising an evaporator, a condensing means for supplying liquid refrigerant thereto and for withdrawing vaporized refrigerant therefrom, and means for controlling the flow of refrigerant through the evaporator, said evaporator comprising a first section and a second section in series therewith; and said control means comprising an expansion valve at the inlet of said evaporator, a thermostatic device controlling the operation of said valve and means for modifying the effect of said device; said device comprising an end portion responsive to the superheat of the vaporized refrigerant in the first evaporator section, said device enclosing a volatile fluid therein, said volatile fluid having pressure-temperature characteristics which are substantially the same as the pressure-temperature characteristics of the refrigerant controlled thereby, the pressure of said volatile fluid tending to open said valve, the pressure of the refrigerant in the evaporator tending to close said valve, said modifying means comprising a thermostat responsive to temperature changes in the second evaporator section and means actuated by said thermostat for superimposing a definite amount of heat upon said end portion of said device, said heat being so proportioned in quantity as to effect a constant operating pressure in said second evaporator section, a thermostat responsive to temperature changes in the first evaporator section and means for effecting individual operating control of said condensing means by each thermostat.

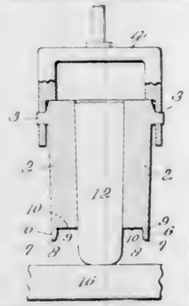
2,169,796
AUTOMOBILE LOCK
Victor L. Gilpin, Baltimore, Md., assignor to Gilpin Autolock Corporation, a corporation of Maryland
Application April 26, 1935, Serial No. 18,444
3 Claims. (Cl. 70—252)



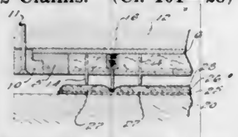
1. A lock comprising a locking bolt and an electrical switch, said switch comprising at least one contact and a movable switch-closer, a spring which tends to press said closer to a circuit-closing position, a shoulder which is fixed relatively to the switch-closer and with which said closer is engaged to hold the closer in a circuit-opening position against the tension of the spring, there being a space beyond the shoulder providing a zone of independent movement for the closer, and means by which to simultaneously move the bolt to an unlocked position and to move the closer clear of the shoulder and into said zone, whereupon the released spring presses the closer into circuit-closing position on the contact, said closer than being movable in said zone to off and on positions with respect to the contact and acting as a detent against the shoulder which then obstructs said means from returning the bolt to a locking position.

2,169,797
METHOD OF CASTING, SELF-STRIPPING AND RAPID-COOLING STEEL INGOTS
Septimus H. Griffiths, Canton, Ohio
Application December 31, 1937, Serial No. 182,900
2 Claims. (Cl. 22—212)

1. The method of casting and self-stripping an ingot from a mold divided horizontally into a major upper section, and a minor lower section, each section having extensions at its meeting end serving to form an accurate and tight juncture when joined together for casting purposes, consisting in removing the major mold section with its contained ingot projecting below the lowermost end of said section away from the minor mold section, seating the lowermost end of the ingot on a support, releasing the lifting tension from the major mold section, permitting said major section to automatically gravitate until its lowermost end portion is also seated on the support with its meeting face in spaced relation to said support, said gravitation simultaneously forcing the ingot to be stripped away from the inner wall of the major mold section with its top projecting beyond the top of said section and maintaining the ingot within the mold section in spaced relation to the inner wall of said section, permitting the free flow of cool air beneath said meeting face to contact with the wall of the ingot and the inner wall of the major section to rapidly cool and solidify the ingot, removing the ingot from the upper end of the major section, then conveying the ingot to its proper destination.



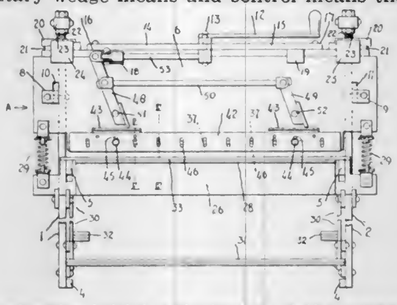
2,169,798
DIE
Alfred H. Haberstump and Andrew J. Jarosik, Detroit, Mich., assignors to The Murray Corporation of America, Detroit, Mich., a corporation of Delaware
Application December 5, 1936, Serial No. 114,350
2 Claims. (Cl. 101—28)



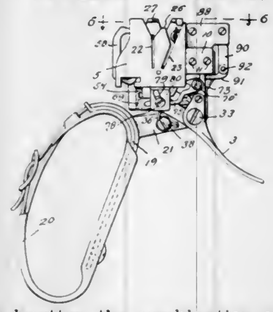
1. A die member for forming inner trim panels including a support member, three like blades disposed in substantially parallel relation extending from said support member, the central of said three blades being movably mounted with respect to said support member and adapted to project therefrom a distance greater than the remaining blades, the remaining blades being rigidly mounted with respect to said support member, and resilient means for urging said central blade into projecting position but permitting it to be retracted relative to said other blades to have like pressure applied by said blades in a common plane.

2,169,799
PERFORATING MACHINE
Robert Holroyd, Durban, Natal, Union of South Africa
Application January 28, 1939, Serial No. 253,436
In Great Britain January 26, 1938
5 Claims. (Cl. 164—86)

1. A perforating machine comprising in combination a bed whereon the paper to be perforated may be carried, a perforating rule the teeth of which are relatively long and finely tapered, mounting means therefor, resilient means whereby the bed and the rule are normally held apart to permit ready insertion of the paper, complementary wedge means and control means therefor whereby initial adjustment of the perforating rule towards the bed of the machine may be effected prior to perforation and independently operable means whereby the bed and the rule are forced relatively together to effect perforation.



2,169,800
KNOT-TYING DEVICE
William A. Huffstickler, Charlotte, N. C., assignor to Rudisill Machine & Tool Works, Charlotte, N. C.
Application August 6, 1937, Serial No. 157,796
14 Claims. (Cl. 289—3)

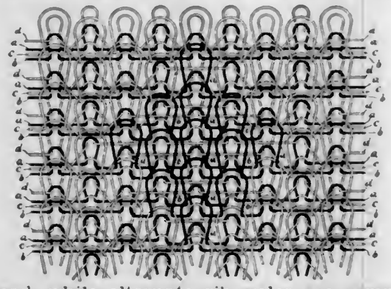


1. In a knotter, the combination of guides for supporting a first thread and a second thread, a single member operable for doubling said first thread around said second thread over and then under the latter to form a loop, and a tying bill positioned to rotate against said loop and arranged to cut and clamp one end of said second thread, and to loop said second thread around said first loop and draw said clamped end of said second thread between said first loop and said second thread to form a true weaver's knot when said first loop is stripped from said tying bill.

2,169,801
MANUFACTURE OF PATTERNED FABRICS ON CIRCULAR KNITTING MACHINES WHICH ARE ADAPTED TO PRODUCE INTERLOCK FABRICS
Frank James Jarvis, Nottingham, England, assignor to George Blackburn and Sons Limited, Nottingham, England
Application May 21, 1937, Serial No. 144,072
In Great Britain May 28, 1936
4 Claims. (Cl. 66—197)

1. A rib knitted fabric of the interlock type

with a patterned surface in which alternate plain wales in the patterned areas are composed of one thread and the remaining wales in said areas of a second thread, and alternate plain wales in the ground are composed of a third thread and the remaining wales in the ground of a fourth



thread, while alternate rib wales are composed of threads one and three, and the remaining rib wales are composed of threads two and four, twice as many loops being thus knitted in the rib wales as in the plain wales, substantially as described.

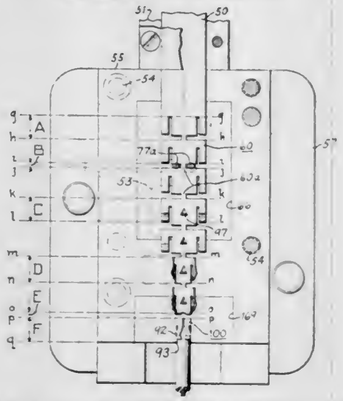
2,169,802

APPARATUS FOR FORMING AND ATTACHING PLUG TERMINALS

Clarence J. Keller, Anderson, Ind., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application February 23, 1938, Serial No. 191,901

6 Claims. (Cl. 153—1)



6. Apparatus for forming a terminal ferrule and for attaching the ferrule to a cable, comprising in combination; punch and die members for forming connected blanks from a strip of sheet metal with each blank having a medial portion interposed between laterally spaced arms; means for feeding the strip of sheet metal step by step to the punch and die members; means having provisions for piercing the medial portion of the blanks to provide a pointed portion and having provisions for deforming the arms of said blank to provide gripping end portions thereon; means for forming the pierced blank into a U-shaped member; means for severing the U-shaped member from the remainder of the strip; and means for attaching the free U-shaped member about the cable whereby the pointed portion will pierce the insulation and engage the conducting element of the cable and the gripping end portions to pinch the outer surface of the cable.

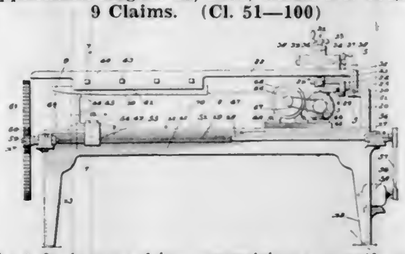
2,169,803

FACING MACHINE

James M. Kirchberg, New Orleans, La.

Application August 13, 1938, Serial No. 224,801

9 Claims. (Cl. 51—100)



1. A facing machine comprising a mouth-piece holder, a grinding wheel to cut a lay upon a mouth-piece secured on the holder, a carriage for the grinding wheel, a template having a side contoured according to the shape to be given to the lay, a frame carrying the mouth-piece holder and template, means to move the carriage to advance the grinding wheel along the mouth-piece, and means traversing the contoured side of the template to simultaneously rock the frame.

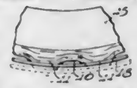
2,169,804

METHOD OF CLOSING CONTAINERS AND THE PRODUCT THEREOF

Harry F. Kniesche, Baltimore, Md.

Application October 11, 1932, Serial No. 637,308

9 Claims. (Cl. 226—83)



1. The steps in the method of affixing a bottle sealing cap which comprise applying a flanged cap molded from paper pulp and having its flange compressed at intervals in its circumference with intervening uncompressed portions of greater thickness than the compressed portions to the mouth of a bottle with the flange of the cap surrounding the lip of the bottle mouth, and compressing the uncompressed portions of the flange of the cap and thereby contracting said flange circumferentially and molding it upon said lip.

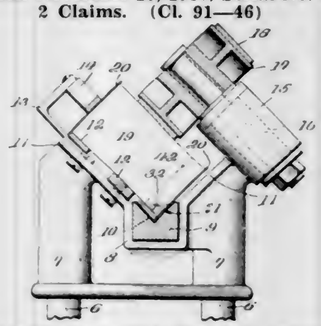
2,169,805

APPARATUS FOR COATING CAN BODIES

Alfred L. Kronquest, Syracuse, N. Y., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application November 10, 1937, Serial No. 173,937

2 Claims. (Cl. 91—46)



1. In apparatus of the character described, a

trough member having diverging walls forming a V-shaped troughway therein, coating material in the troughway, a can support laterally aligned with one wall of the V-shaped troughway and adapted to support a can with one side of one end immersed in the coating material, means for holding the can out of contact with the walls of the troughway, and means for rotating the can on said support to form a cylindrical band of coating at the immersed end thereof.

2,169,806

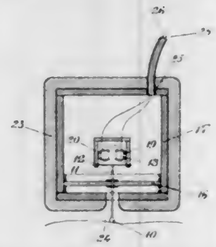
AUSCULTATION MICROPHONE

Camille Lian, Paris, and Georges Minot, Ezanville, France

Application April 27, 1937, Serial No. 139,318

In France May 5, 1936

4 Claims. (Cl. 181—24)



1. An auscultation microphone comprising, in combination, a casing, a rod projecting outwardly from the casing and carrying at its exterior extremity an element adapted to make contact with the part to be auscultated, a movable armature attached to the inner extremity of said rod in the interior of the casing and an electric field element adjacent said armature adapted to transform the armature vibrations into electric oscillations, yielding supporting means for securing said rod on said casing, and other yielding supporting means for securing the field element on the armature.

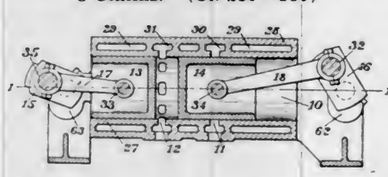
2,169,807

COMPRESSOR

George R. Lyon, Highland Park, Mich.

Application March 4, 1938, Serial No. 193,986

5 Claims. (Cl. 230—180)



1. A pump having a cylinder provided with inlet and outlet ports, two opposed pistons reciprocably mounted in the cylinder and controlling said ports, means for driving said pistons to effect differential movement of the pistons in a manner to increase the space therebetween when the inlet port is open to draw fluid into the cylinder by the pistons and to effect movement of the pistons at different rates in a manner to compress the fluid, and discharge the same through the outlet port, and said means comprising cranks having different throws and respectively operatively connected to the pistons and means for driving the cranks at the same speed.

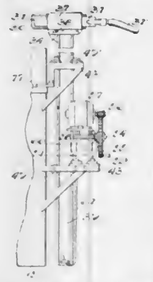
2,169,808

ELECTRIC FURNACE AND ELECTRODE MECHANISM THEREFOR

William E. Moore, Pittsburgh, Pa., assignor to Pittsburgh Research Corporation, Pittsburgh, Pa.

Original application January 31, 1936, Serial No. 61,810. Divided and this application January 11, 1937, Serial No. 120,060

6 Claims. (Cl. 13—14)



1. In a furnace of the character described, a furnace crucible, an electrode extending into said crucible, an electrode arm to support said electrode, a column carried by the crucible, a platform at the top of said column and adapted to support said electrode arm, a hood pivotally connected to the column and extending over the electrode arm, a clamping member carried by the platform and adapted to clamp the arm against the pivoted hood, and means to insulate the arm from the platform and hood.

2,169,809

TREATMENT OF GASEOUS PARAFFIN HYDROCARBONS

Jacque C. Morrell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware

No Drawing. Application May 3, 1939, Serial No. 271,599

2 Claims. (Cl. 196—10)

1. A process for producing gasoline boiling hydrocarbons from normally gaseous iso-paraffin and olefin hydrocarbons which comprises simultaneously contacting a normally gaseous iso-paraffin and a normally gaseous olefin with sulfuric acid at a controlled reaction temperature, and correlating the amount and concentration of the acid, the reaction temperature and the proportion of olefin to iso-paraffin to effect alkylation of the iso-paraffin with the olefin as the principal reaction in the process with minimum olefin polymerization, thereby chemically combining the normally gaseous iso-paraffin and olefin to form a heavier hydrocarbon boiling in the gasoline range.

2,169,810

LUBRICATED VALVE

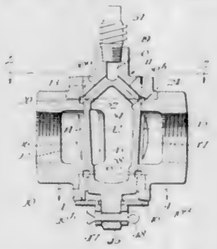
Frank H. Mueller, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois

Application September 16, 1937, Serial No. 164,231

2 Claims. (Cl. 251—93)

1. A valve comprising a housing having a tapered seat therein provided with opposite lateral ports for passing flow through the body, and a tapered rotary plug cooperative with said seat, said plug having a transverse flow passage and having open and closed positions relative to said ports, said seat having longitudinally ex-

tending grooves spaced at 90° intervals and symmetrically arranged with respect to said ports, said seat also having two parallel series of arcuate grooves, each of said longitudinally extending grooves having its ends in connection with an arcuate groove of each of said series and the arcuate grooves of each of said series lying in the same plane normal to the plug axis and having their ends equi-distantly spaced from each other so that lands are present between the grooves of each of said series, said plug having a series of external grooves which in the open



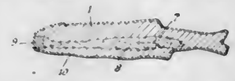
and closed positions of the plug bridge the lands between the grooves of one of said series of arcuate grooves so that the last named grooves are in communication with each other, and lubricant ducts in said plug leading to opposite ones of said series of external grooves, said opposite ones of said grooves moving out of communication with the associated arcuate grooves which are in connection with the longitudinally extending grooves toward which the ends of the plug passage move when the plug is turned, the remainder of the plug grooves being blind.

2,169,811

METHOD OF PRESERVING FISH, FROGS, AND THE LIKE

Frederick John Nevison, The Bank, Barnard Castle, England

Application December 14, 1937, Serial No. 179,787
In Great Britain February 12, 1937
2 Claims. (Cl. 43—46)



1. The method of preserving fish and reptiles wherein the creature is placed alive in an alcohol preservative and the carcass afterwards sealed from the atmosphere by applying thereto a transparent waterproof cement to retain the preservative inside the carcass.

2,169,812

GAUGE FOR MEASUREMENT OF GAS PRESSURE

Samuel Palkin and Thomas C. Chadwick, Washington, D. C.; dedicated to the free use of the People of the United States of America

Application April 22, 1938, Serial No. 203,626
5 Claims. (Cl. 73—31)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. A vacuum gauge comprising a continuous tubular circuit with two vertical arms, a vacuum chamber disposed near the top of one of said arms, a reservoir disposed on the other arm, stopcocks above said chamber and reservoir, a degassed manometric liquid partly filling said reservoir and the arm of the tube below said chamber, there being normally a Toricellian vacuum in said chamber and in the non-filled portion of said tube below the chamber, and outlet



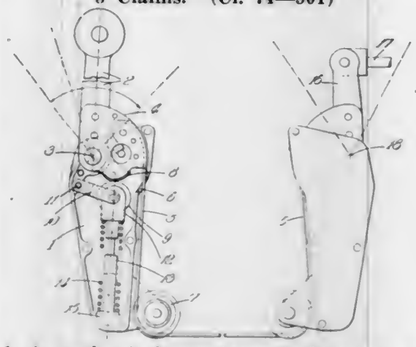
means for communicating the space above the liquid in said reservoir with a pressure system.

2,169,813

MECHANICAL REMOTE CONTROL APPARATUS

William Hugh Parkin, Alperton, England, assignor to Exactor Control Company Limited, Alperton, Middlesex, England

Application February 23, 1938, Serial No. 192,144
In Great Britain March 13, 1937
8 Claims. (Cl. 74—501)



1. A mechanical remote control system comprising a movable element at each of two stations, a mechanical bond between such elements, a single resilient means at each station for keeping said bond in tension, and means at each station for substantially equalising the efforts of said single resilient means automatically in all positions of the control.

2,169,814

BONDING AND COATING PRODUCT

Joseph C. Patrick, Trenton, N. J., assignor to Thiokol Corporation, Yardville, N. J., a corporation of Delaware

No Drawing. Application March 22, 1935, Serial No. 12,449. Renewed December 24, 1938
8 Claims. (Cl. 260—2.8)

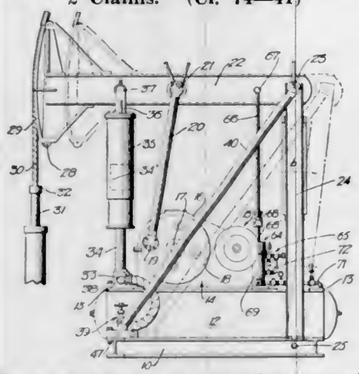
1. A composition of matter comprising sulfur, a sulfurized pitch, and the reaction products of an alkaline polysulfide and additive compounds of olefins included in the general formulae $C_nH_{2n}X_2$ and $OC_nH_{2n}X_2$ where X is a negative radical, a sufficient amount of elemental sulfur being present in the composition to cause the viscosity to increase at elevated temperatures in the absence of the pitch.

2,169,815

WELL PUMP OPERATING MECHANISM

Edgar W. Patterson, Long Beach, Calif.

Application November 19, 1935, Serial No. 50,541
2 Claims. (Cl. 74—41)



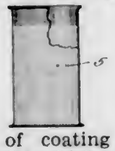
2. In a well pump construction comprising a base, a post pivoted at its lower end to the base and normally rising vertically therefrom, a rigid brace member pivotally connected at its upper end to said post and inclining forwardly and downwardly therefrom, a shackle member pivotally connected at its rear portion to the base to swing forwardly and rearwardly in a vertical plane and normally lying flatwise on said base with its forwardly extending portion securely anchored to a portion of said base, and a pivotal connection between the lower end of the brace member and the forward portion of the shackle member positioning said lower end of the brace member to normally bear solidly against the base.

2,169,816

METHOD OF COATING CAN BODIES

Edward C. Pfeffer, Jr., Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York

Application November 10, 1937, Serial No. 173,938
2 Claims. (Cl. 91—68)



1. The process of coating cans to prevent double seaming faults which comprises suspending a can with one side only of the end at which the double seaming is to take place immersed in a coating bath, rotating said can to provide a relatively narrow band of coating on the immersed end of the can, drying the band coating, providing an overall coating interiorly of the can, and draining off surplus overall coating with the band coated end of the can uppermost during the draining.

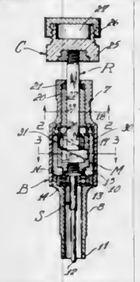
2,169,817

POWER-OPERATED AMALGAMATOR

Carl P. Russell, Annapolis, Md.

Application September 29, 1938, Serial No. 232,460
6 Claims. (Cl. 259—91)

1. A portable amalgamating device of the character described, comprising a housing of such size and shape as to fit conveniently within the hand of an operator, mechanism within said housing for converting rotary motion to reciprocating motion, a rotary shaft projecting into connection with said mechanism from one end



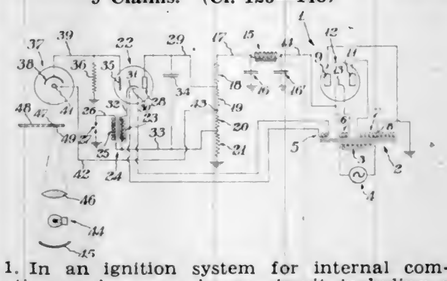
of the housing, a reciprocating rod aligned with said shaft and projecting directly into connection with said mechanism from the other end of said housing, and means carried by said rod and forming an agitating chamber externally of said housing.

2,169,818

SPARK GENERATING SYSTEM

Lloyd H. Scott, Sidney, N. Y.

Application February 3, 1937, Serial No. 123,885
9 Claims. (Cl. 123—148)



1. In an ignition system for internal combustion engines, a primary circuit including a power source, a three-element gas-filled electronic tube and the primary winding of an induction coil, means normally maintaining the control element of said tube sufficiently negative with respect to the cathode to render the tube non-conductive, means for periodically raising the voltage of the control element sufficiently to render the tube conductive, and means for so limiting the flow of current from said power source as to allow the tube to heal after each discharge therethrough.

2,169,819

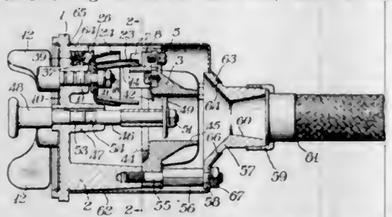
MULTIPLE SWITCH

Walter J. Spengler, Sidney, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application September 29, 1934, Serial No. 746,204
3 Claims. (Cl. 200—18)

1. A multiple ignition switch for internal combustion engines comprising a circular face plate, a plurality of groups of axially extending contact members rotatably mounted in said face plate, a terminal block mounted in spaced relation to said face plate, groups of fixed contacts mounted on the inner side of the terminal block extending into the paths of said rotatable contact members, arcuately arranged groups of ter-

minals on the outer face of said terminal block electrically connected to said fixed contacts, an end plate centrally apertured for the reception of a cable harness, mounted in spaced relation to the terminal block, means on said end plate for anchoring a cable thereon, and a casing



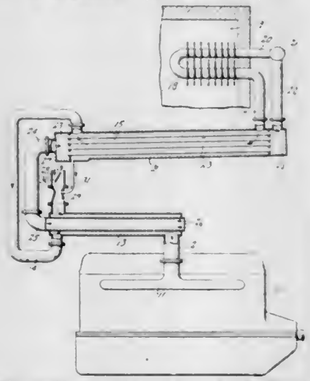
member in the form of a cup apertured and formed to fit over and seal against said face plate and end plate and completely enclose the switch, the aperture in the casing member being sufficiently large to enable removal of the casing member without disturbing the cable harness.

2,169,820

REFRIGERATION

Paul Strandberg, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware

Application July 20, 1938, Serial No. 220,208
8 Claims. (Cl. 62—169)



1. Refrigeration apparatus including an internal combustion engine, a plurality of places of evaporation, means for conducting air to one of said places of evaporation, means to conduct air to said second place of evaporation, means to conduct liquid fuel to both of said places of evaporation, means to conduct vaporous fuel and air mixture from said first place of evaporation to said second place of evaporation and thence to said engine, said first place of evaporation being arranged in heat transfer relation with an object to be cooled, and said second place of evaporation being arranged in thermal exchange relation with air flowing to said first place of evaporation.

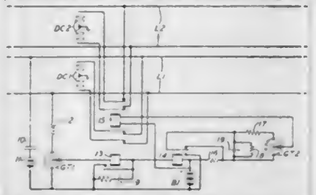
2,169,821

ELECTRICAL SWITCHING AND CONTROL SYSTEM

Leland K. Swart, Mountain Lakes, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application October 30, 1937, Serial No. 171,915
18 Claims. (Cl. 179—175.3)

1. In combination in an electrical system, a line, a protective device connected to the conductors of said line, a relay operatively connected to said line for disconnecting said device from said line, circuit means for rendering said relay



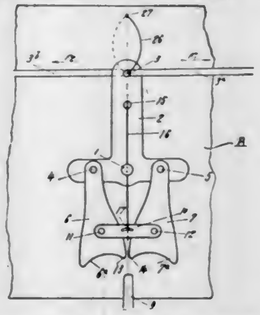
operatively responsive to alternating current transmitted over said line and for preventing the operation of said relay in response to direct current transmitted over said line, and means for delaying the operation of said relay.

2,169,822

TRANSMISSION DEVICE

Duncan Armstrong-Taylor, Paris, France

Application October 16, 1937, Serial No. 169,399
5 Claims. (Cl. 74—100)



1. A transmission device of the type described which comprises, in combination, a support, an oscillatable element pivoted to said support about a fixed axis, a control member slidable with respect to said support along a line perpendicular to said axis and passing therethrough, adapted to receive successive impulses always in the same direction, resilient means interposed between said support and said control member for returning said member into its initial position after each impulse, two levers pivoted to said oscillatable element on opposite sides of said axis respectively, and linked together so as to come alternately across the line of action of said control member, when the latter is inclined in one direction or the other, respectively, with respect to a given median position thereof and elastic means carried by said oscillatable element for urging both of said transmitting levers toward a predetermined position symmetric with respect to said oscillatable element, whereby the respective positions of said levers are alternately shifted with respect to said control member at the end of each impulse of said control member.

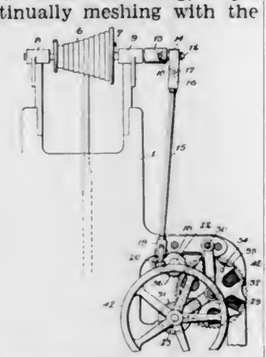
2,169,823

HARNESS MOTION FOR LOOMS

William G. Trautvetter, Paterson, N. J.

Application June 15, 1938, Serial No. 213,776
6 Claims. (Cl. 139—55)

1. A harness motion for a loom having heddles and a constantly rotating shaft, comprising mechanism for raising and lowering said heddles to form a shed, said mechanism including a reciprocating member, and means actuated by said shaft for causing said reciprocating member to have a stationary dwell after forming each shed, said means including, a pinion, a large gear continually meshing with the pinion, and



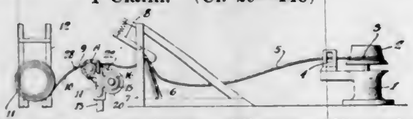
means intermittently moving said large gear a certain number of times for each rotation of the large gear, said pinion being so proportioned to said large gear that it will move one-half a revolution upon each intermittent movement of said large gear.

2,169,824

ART OF REMOVING BURRS FROM WELDED ROD LENGTHS

Earl D. Tubbs, New York, N. Y., assignor to Igoe Brothers, Inc., Newark, N. J.

Application July 22, 1937, Serial No. 155,097
1 Claim. (Cl. 29—148)



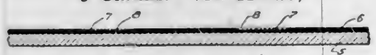
The new art of joint-welding metallic rod for continuous diameter reduction which consists in welding juxtaposed rod length ends, thereby creating a circumferential burr, applying said burr to a cutter rotating at high speed for its removal, and continuing the cutting operation to further reduce the jointed rod portion below its normal diameter.

2,169,825

METHOD OF MAKING AN ARTICLE

Richard F. Warren, Stratford, Conn.

Application February 8, 1934, Serial No. 710,320
Renewed May 3, 1938
9 Claims. (Cl. 41—26)



1. The method of making a moulded article of a material including a transparent resin, comprising moulding said article of said material, printing on the article, and then moulding the article in the presence of heat to draw the resin over the printing.

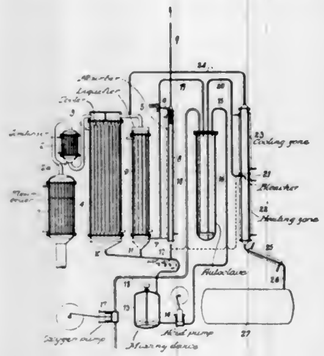
2,169,826

PROCESS OF PRODUCING HIGHLY CONCENTRATED NITRIC ACID

Rudolf Wendlandt, Piesteritz, near Halle-on-the-Saale, Germany, assignor to Bayerische Stickstoff-Werke Aktien-Gesellschaft, Berlin, Germany

Application December 30, 1932, Serial No. 649,513
In Germany December 30, 1931
4 Claims. (Cl. 23—162)

3. A process of producing highly concentrated nitric acid, i. e., nitric acid of 70% or more, comprising effecting the process in a single continuous operation by oxidizing ammonia catalytically, separating from the combustion gases water which is in excess of that required for the process, producing water-containing nitric acid and liquid nitrogen tetroxide from the resulting gases, continuously pumping said liquids, in



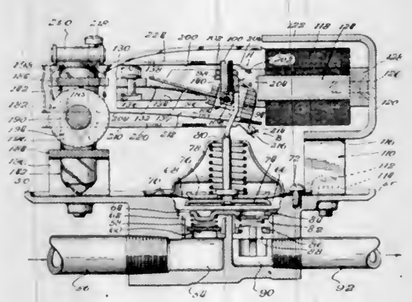
proper proportion for producing the highly concentrated acid, into a reaction zone maintained at a pressure which is above atmospheric and which is sufficient for the reaction, lubricating the pump with inorganic colloids, supplying oxygen to the reaction zone and continuously removing the highly concentrated nitric acid from the reaction zone.

2,169,827

ELECTRIC FUEL PUMP

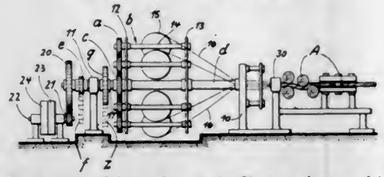
John B. Whitted, Glencoe, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application March 6, 1936, Serial No. 67,527
42 Claims. (Cl. 103—150)



1. In an electric fuel pump of the class described, the combination of a diaphragm chamber, a diaphragm therefor, inlet and outlet valves for said chamber, a spring for moving said diaphragm on its discharge stroke, a pull rod for said diaphragm, a pump armature pivotally connected to said pull rod, an electromagnet for attracting said armature to move said diaphragm in opposition to said spring, said magnet having a core, said armature having a face adjacent said core and curved on different radii to give a minimum air gap and maximum pull at the end of the power stroke of said armature, and switch means controlling said magnet.

2,169,828
PROCESS AND MACHINE FOR WINDING CABLES
Gustav Wolf, Gutersloh, Germany
Application January 22, 1938, Serial No. 186,325
In Germany January 24, 1935
4 Claims. (Cl. 57—65)



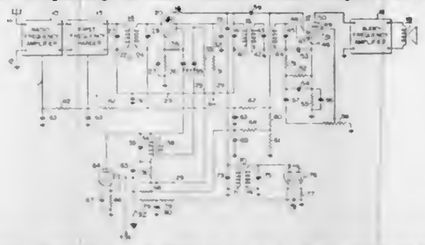
3. In a machine for winding wire cable, a revoluble cage, a plurality of strand feed spools each mounted on said cage to rotate about an unwinding axis and also about a twist axis transverse to said unwinding axis, driving means for revolving said cage, and means actuated by said driving means for rotating said spools about said twist axes at a rate bearing a definite ratio to the rate of revolution of said cage, said last means including means for reversing the direction of rotation of said spools about said twist axes, comprising a driving gear, a driven gear, a pair of reversing pinions permanently meshing with each other and one permanently meshing with one of said gears, an arm mounted to swing about the axis of said last mentioned gear, adjustable means for holding said arm in certain angular positions, said pinions being supported upon said arm so as to be brought alternatively into mesh with that one of said gears not permanently in mesh with one of said pinions.

2,169,829
DETERGENT COMPOSITION
William G. Beckers, Bolton, N. Y.
No Drawing. Application June 9, 1937, Serial No. 147,249
5 Claims. (Cl. 87—5)

1. A detergent composition in cake form adapted for toilet purposes which is mildly acid in reaction and possesses good lathering and cleansing properties comprising a mixture composed of boric acid and a water-soluble synthetic detergent comprising a water-soluble salt of a derivative selected from the group consisting of the sulfuric acid and phosphoric acid derivatives of an organic compound containing an alkyl radical having at least 8 carbon atoms, said water-soluble salt being characterized by its stability to hydrolysis and its resistance to hard water, the boric acid acting as a binding agent in the composition, said composition being composed of about 20 to about 80 per cent of boric acid based on the dry weight of the composition and about 80 to about 20 per cent of said water-soluble synthetic detergent.

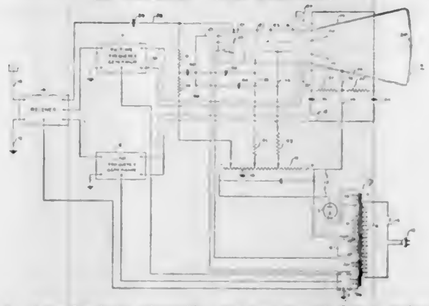
2,169,830
AUTOMATIC SELECTIVITY CONTROL
Nelson P. Case, Great Neck, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application August 6, 1936, Serial No. 94,547
19 Claims. (Cl. 250—20)

1. In a modulated-carrier signal receiver, a band-pass selector comprising a plurality of coupled tuned circuits for selecting a desired signal comprising a carrier and at least one modulation sideband and having a response characteristic substantially uniform over the selected band, and means responsive to the amplitude but substantially unresponsive to the frequency of a desired received signal carrier for shifting the frequency of said carrier with respect to the



mean resonant frequency of said band-pass selector to increase the width of said modulation sideband passed by said selector while maintaining the carrier-frequency response of said selector substantially constant.

2,169,831
TELEVISION RECEIVING APPARATUS
Madison Cawein, Manhasset, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware
Application August 22, 1935, Serial No. 37,294
13 Claims. (Cl. 250—27)

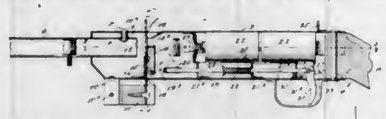


1. An electric circuit arrangement for controlling an electron beam of a cathode-ray tube and for preventing said beam from becoming momentarily sufficiently intense to have undesirable effects by reason of the delayed application of a negative bias potential to a control electrode of said tube, comprising means including a single manual control means for applying a negative bias potential to said control electrode and a positive bias potential to a second control electrode, means tending to delay the application of said negative bias to said first control electrode, and means for automatically delaying the application of a positive potential to the said second control electrode for a period at least as great as the delay in said application of negative potential, to limit thereby the intensity of the beam until said negative potential reaches its normal value.

2,169,832
TARGET-OPTICAL-PROJECTION PRACTICE GUN
Irwin E. Cohn, New York, N. Y.
Application January 25, 1938, Serial No. 186,764
4 Claims. (Cl. 273—101.2)

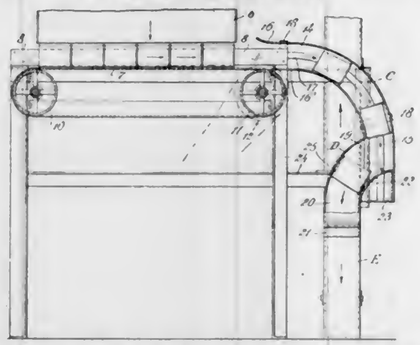
1. A target optical projecting practice gun comprising a barrel, means adjacent the rear end of the barrel for supporting a transparent member bearing a target image, means for projecting

a beam of light relatively to said transparent member supporting means, a box-like member supporting the barrel, a gun stock carrying the box-like member, a target, a target puncturing arm pivotally carried adjacent the target image supporting means and gravitationally held in inactive position, a plunger rod adapted to strike the target puncturing arm, the plunger rod be-



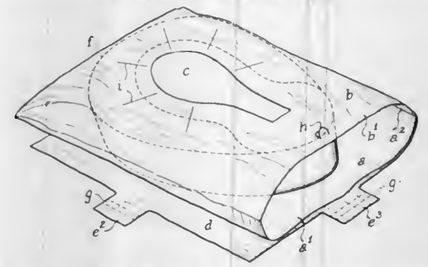
ing slidably movable in the box-like member, a latch adapted to engage the plunger rod on a predetermined movement of the latter, a spring acting in opposition to the rod in said predetermined movement thereof, a trigger connected to the latch, and means restraining action of the plunger rod on the target puncturing arm to substantially less than the active movement of said arm.

2,169,833
CAN-TURNING APPARATUS
Weld E. Conley, Jr., Richmond, Va., assignor, by mesne assignments, to Thermal Research Corporation, Richmond, Va., a corporation of Virginia
Application July 13, 1938, Serial No. 218,979
6 Claims. (Cl. 193—43)



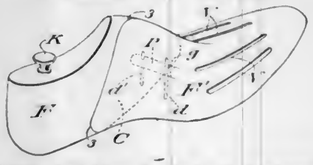
1. Apparatus for delivering cylindrical cans received in horizontal axial alignment in a row with their cylindrical surfaces parallel and their axes extending transversely of the row comprising tubular means having a downwardly curved portion and a substantially vertical portion below said downwardly curved portion, means for delivering cans to the upper end of said downwardly curved portion of the tubular means in horizontal axial alignment, said downwardly curved portion having confining wall portions which cause the cans delivered thereto to pass therethrough in end-to-end relation, said vertical portion of said tubular means having a vertically extending opening in one side thereof of a size sufficient for a can in substantially vertical position to pass therethrough, a downwardly curved duct of a size to receive and deliver cans, said duct having its upper end communicating with the opening in the side of the vertical portion of said tubular means, and stop means at the lower end of said tubular means, said stop means being so positioned as to cause cans impinging thereagainst to be tilted and deflected sidewise through the opening in the side of said vertical portion of said tubular means and into said curved duct, the cans in passing through said curved duct being turned so that their axes are parallel and extend transversely of said duct.

2,169,834
PROTECTIVE SANITARY COVER FOR BEDPANS
Kathryn May Englert, Portland, Oreg.
Application May 28, 1938, Serial No. 210,785
3 Claims. (Cl. 4—112)



1. A protective bed-pan cover comprising a bag-like structure open at one end for the insertion of the bed-pan and otherwise closed, that portion of the bag-like structure overlying the top of the pan being formed with an opening having a predetermined relation to the opening in the bed-pan, and having a cover flap carried by the bag-like structure and arrangeable in one position to overlie the bag-like structure and enclosed bed-pan and so as to substantially cover the upper area of the bag-like structure and particularly the opening therein.

2,169,835
DISPLAY FORM FOR FOOTWEAR
Frederick W. Estey, West Stoughton, Mass., assignor to George E. Belcher Company, Stoughton, Mass., a corporation of Massachusetts
Application July 2, 1938, Serial No. 217,182
7 Claims. (Cl. 12—136)

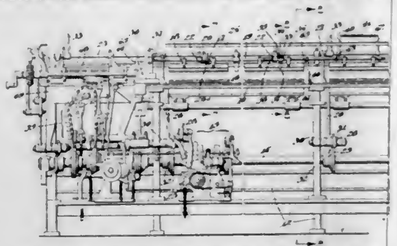


1. A form for the display of footwear, comprising front and rear parts having mutual bearing faces vertically of the form and disposed diagonally of its front to rear axis, and a pivot post disposed perpendicularly to the part faces, said post having a circumferential groove, and a keeper engaged in said groove, whereby the parts are maintained in swivelling non-separating relation permissive of rotative accommodation on insertion and withdrawal.

2,169,836
KNITTING MACHINE
Martin Göttler, West Reading, Pa., assignor to Berkshire Knitting Mills, Wyomissing, Pa., a corporation of Pennsylvania
Application October 11, 1937, Serial No. 168,390
10 Claims. (Cl. 66—96)

1. In a knitting machine including two rod-like elements having cooperating movement with respect to each other which brings them into

longitudinal contacting engagement, the combination with said elements of means for deflecting



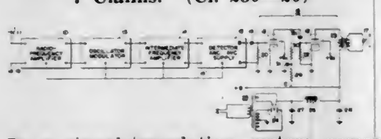
one of said elements relative to the other only when they are not in position for said cooperative movement.

2,169,837

LOW FREQUENCY AMPLIFIER

Carl-Erik Granqvist, Stockholm, Sweden, assignor to Hazeltine Corporation, a corporation of Delaware

Application March 29, 1938, Serial No. 198,625
In Sweden September 3, 1937
7 Claims. (Cl. 250—20)



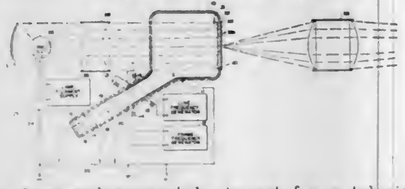
1. In a signal-translating system comprising a high-frequency signal-translating circuit including at least one vacuum tube, a low-frequency amplifier comprising at least one vacuum tube and having an input circuit adapted to be coupled to said high-frequency signal-translating circuit, a common source of space current for said tubes, said source having a substantial impedance within the range of said low-frequency amplifier across which a feed-back voltage is developed, and the reactive constants of said amplifier and said source being so proportioned that said feed-back voltage is displaced approximately 90 degrees with respect to the input voltage to said amplifier at the frequency at which said feed-back voltage is greatest.

2,169,838

TELEVISION SIGNAL REPRODUCING TUBE

Philip J. Herbst, Bayside, N. Y., assignor to Hazeltine Corporation, a corporation of Delaware

Application April 29, 1938, Serial No. 204,959
5 Claims. (Cl. 250—164)



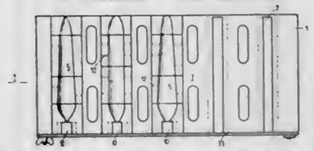
1. A scanning-ray tube target for a television signal-reproducing system comprising a multiple lens system including a plurality of juxtaposed lens elements, a screen adjacent said lens system, said lens elements being proportioned to focus parallel light rays on individual separate areas of said screen, said screen being generally transparent but opaque over said areas, each of said lens elements having the property of varying its focus with respect to said screen in response to excitation by a scanning ray, thereby to permit said light rays to pass through said screen adjacent its respective opaque area.

2,169,839

CIGAR MOLD

Ferdinand Hochherr, Heidelberg, Baden, Germany

Application December 9, 1936, Serial No. 114,890
In Germany December 9, 1935
8 Claims. (Cl. 131—9)



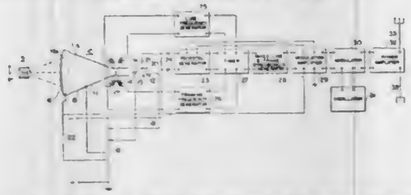
5. A cigar mold composed of a bottom part and a cover part, a plurality of mold members each composed of a plurality of removable sections, arranged in tandem fashion on said bottom part and cover part respectively, means for axially aligning the sections of the same mold member in tandem relation, and means for securing the said mold members in position on the bottom part and on the cover part respectively.

2,169,840

CATHODE-RAY SIGNAL-GENERATING TUBE

Harold M. Lewis, Great Neck, and Rudolf C. Hergenrother, Beechhurst, N. Y., assignors to Hazeltine Corporation, a corporation of Delaware

Application November 28, 1936, Serial No. 113,200
12 Claims. (Cl. 250—153)



1. A television signal-generating system including a cathode-ray signal-generating tube comprising an elongated evacuated envelope, an electron gun disposed in one end of said envelope for generating and accelerating a stream of electrons of constant intensity and focusing it into a beam, a photo-sensitive target electrode in the path of the electron beam and adapted to have an image of a scene projected thereon, said target comprising a layer of conductive material and a layer of photoconductive material disposed thereon on the side facing said electron gun, an anode disposed to collect secondary electrons emitted by said target, means for deflecting said beam to scan the image projected on said target, and an output circuit interconnecting said anode and said conductive layer and having an impedance at signal frequencies which is a small fraction of the impedance of said beam.

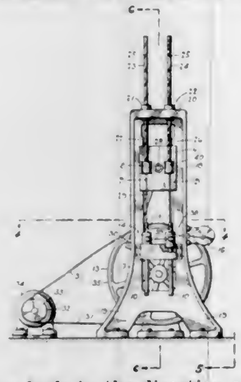
2,169,841

POLISHING MEANS

Franz Höllstin, Berlin, Germany, assignor to Rheinmetall-Borsig Aktiengesellschaft Werk Borsig Berlin-Tegel, Berlin-Tegel, Germany

Application December 3, 1937, Serial No. 177,881
In Germany September 29, 1936
4 Claims. (Cl. 51—31)

1. A device for polishing inner spiral grooves of a hollow body, said device comprising a polishing tool having projections extending in the direction of said grooves and adapted to be situated within said grooves, and means for causing a relative movement between said polishing tool



and the hollow body in the direction of the longitudinal axis of said grooves, and for causing during said longitudinal movement a continuous relative oscillatory movement of substantially small amplitude between said polishing tool and the hollow body around said longitudinal axis.

2,169,842

ELECTRONIC ORGAN

Walter F. Kannenberg, Rutherford, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 24, 1936, Serial No. 76,169
9 Claims. (Cl. 84—1.18)

1. In a photoelectric tone generator comprising a light sensitive cell and a source of light, means for controlling the output from said generator, said means comprising a closure, a piston adapted to slide within the closure, resilent means for biasing the piston to move toward one end of said closure, a lamp mounted upon said piston to cooperate with the light sensitive cell, an electroconductive cord connected to said lamp, and means for varying the tension on said cord to vary the position of the lamp within the closure and thereby vary the amount of light striking the light sensitive element.

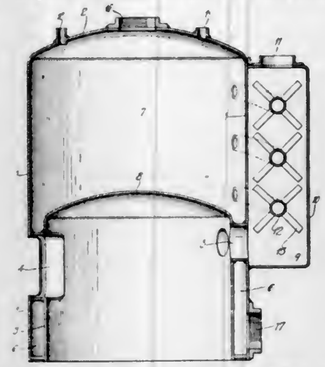
2,169,843

BOILER

John H. Lawrence, Bronxville, N. Y., assignor to Metropolitan Engineering Company, Brooklyn, N. Y., a corporation of New York

Application March 21, 1936, Serial No. 70,013
4 Claims. (Cl. 122—187)

1. A boiler having a furnace, a main water carrying chamber above the furnace, a relatively narrow heating chamber extending upwardly adjacent a portion of the outer surface of said water carrying chamber for the upward passage of gases therethrough, and a number of water heating tubes in said chamber transverse to the passage of gases therethrough and approximately



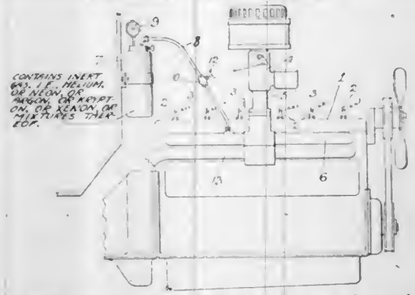
parallel to the surface of said water carrying chamber, and connected to said water carrying chamber at their opposite ends at different levels.

2,169,844

PROCESS AND APPARATUS FOR INCREASING FUEL EFFICIENCY OF INTERNAL COMBUSTION ENGINES

Thomas Marshall, Jr., Chicago, Ill.

Application February 19, 1936, Serial No. 64,642
4 Claims. (Cl. 123—119)



1. The combination with an internal combustion engine having cylinders and ignition devices of means for introducing into the cylinders in addition to the fuel mixture of air and hydrocarbon compounds, readily ionizable gas krypton which mixes with the fuel in the cylinders and is ionized when the ignition occurs, whereby the amount of fuel burned in the cylinders is increased.

2,169,845

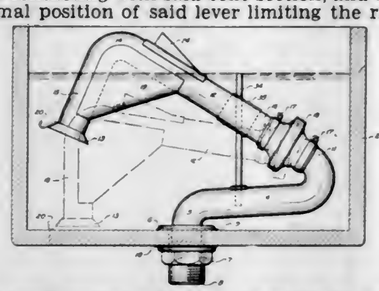
DISCHARGING MEANS FOR FLUSH TANKS

Jesse L. McBride, Portland, Oreg.

Application August 20, 1937, Serial No. 160,084
4 Claims. (Cl. 4—50)

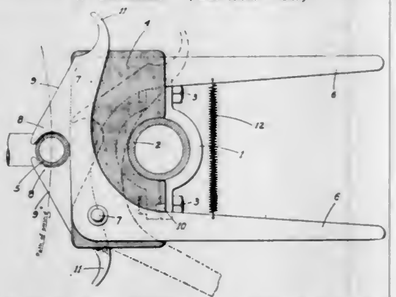
1. In a flushing tank a siphon element comprising an S-shaped stationary pipe section arranged at a slight angle above the horizontal and whose lower end extends thru the tank bottom, a movable pipe extension connected to the upper end of said stationary pipe section by a rubber tube including an expanding ring, the upper end of said pipe extension bent to form an angular pendent section, the bent section of said pipe extension inclosed by a housing constituting an air chamber floating said bent section in the water in the tank, the walls of said air chamber constituting a brace for said bent section, a manually operable lever including a

stop contacting with said bent section, and in the normal position of said lever limiting the rise of



said bent section, said lever operable to depress the bent end of said movable pipe section.

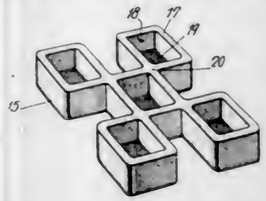
2,169,846
GATE LATCH
William G. Moores, Angels Camp, Calif., assignor of one-half to D. Fricot, Angels Camp, Calif.
Application November 8, 1937, Serial No. 173,277
2 Claims. (Cl. 292—31)



1. A gate latch assembly to provide a releasable connection between the end post of a swinging gate and an adjacent fence post, said assembly comprising a horizontal plate adapted to be mounted on the fence post and to extend toward said gate post, said plate projecting some distance on opposite sides of the fence post, a pair of L-shaped levers independently pivoted at their elbows on the plate adjacent the opposite side edges thereof and in vertically spaced relation, one arm of each lever extending lengthwise of the fence and away from the gate to form an operating handle, and the other arm extending transversely of the fence between said fence and gate posts to a termination beyond the pivot point of the other lever, said other arm at its free end being formed as a finger engaging element to provide another operating handle and intermediate its ends being formed with a catch hook to engage the gate post when the gate is swung closed from an open position on the same side of the fence as that on which the pivot of said one lever is disposed.

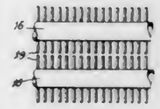
2,169,847
PRODUCTION OF RUBBER STRUCTURES AND PROCESS OF MAKING THE SAME
Edward Arthur Murphy, Wylde Green, Birmingham, Geoffrey William Trobridge, Sutton Coldfield, and Albert Nelson Ward, Alum Rock, Birmingham, England, assignors to Dunlop Rubber Company Limited, London, England, a British company
Application March 18, 1937, Serial No. 131,630
In Great Britain June 2, 1936
6 Claims. (Cl. 18—58)

1. A method for the production of porous rubber structures from foamed latex which comprises dipping spaced projections into a mass of foamed latex to form deposits on the side walls



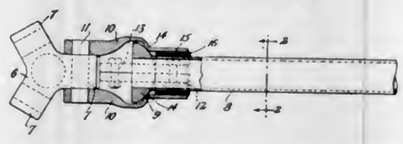
of said projections and to join said deposits on one projection with those on the others to form a continuous structure.

2,169,848
FURNACE BOTTOM
Thomas E. Murray, Jr., Brooklyn, N. Y.
Application January 19, 1935, Serial No. 2,606
4 Claims. (Cl. 122—235)



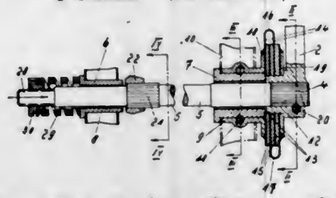
3. A furnace for boilers or the like for burning fuel in suspension having a bottom comprising parallel tubes spaced apart, each having in heat-conducting engagement with it a series of spaced short metal projections extending toward the next tube, the spaces being sufficient to pass substantially all the ashes to the floor below and the dimensions of the projections lengthwise of the tubes being less than said spaces and being so slight as to offer no substantial support for an accumulation of ashes.

2,169,849
AIRCRAFT WITH ROTATIVE SUSTAINING BLADES
Harold F. Pitcairn, Bryn Athyn, Pa., assignor, by mesne assignments, to Autogiro Company of America, a corporation of Delaware
Application January 8, 1938, Serial No. 183,925
6 Claims. (Cl. 244—18)



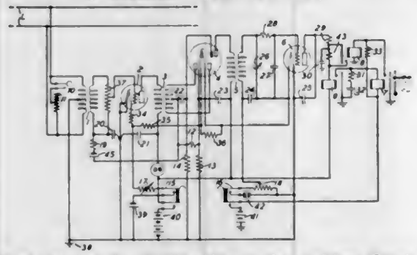
1. In an aircraft sustaining rotor having a hub and a blade, mechanism for mounting the blade on the hub including a housing having an enlarged inboard portion and an outboard extension of smaller diameter, a blade root fitting having an enlarged thrust carrying inboard portion, said fitting being in spaced telescopic relation with the narrower part of said housing and having its enlarged portion in bearing contact with an internal surface of said housing, and yieldable material interposed between said fitting and housing outboard of their enlarged portions and throughout a substantial length of their narrower cooperating portions.

2,169,850
SPRING MECHANISM
Karl Rabe, Stuttgart, Germany, assignor to Dr. ing. h. c. F. Porsche, K.-G., Stuttgart-Zuffenhausen, Germany, a company of Germany
Application January 21, 1936, Serial No. 60,049
In Germany January 26, 1935
5 Claims. (Cl. 267—57)



1. In a vehicle having a frame, a wheel, and wheel supporting means pivotally connected to said frame, the combination of shock absorbing means including a pair of interpolated spring members connected respectively to said frame and said wheel supporting means.

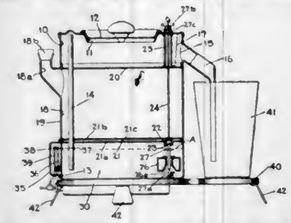
2,169,851
TRANSMISSION LEVEL TRANSIENT CHANGE INDICATOR
Haakon I. Romnes, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 9, 1937, Serial No. 152,734
6 Claims. (Cl. 178—69)



6. A device for indicating only sudden fluctuations in the transmission level of a circuit wherein said level may vary gradually within wide limits, comprising an amplifier bridged across said circuit, a grid in said amplifier, thermionic means comprising a rectifier connected to the output of said amplifier and a gas-filled tube connected to the output of said thermionic means, means connected to the output of said rectifier for varying the bias on said grid to compensate for said wide gradual variations in said level and means comprising a transformer in the input of said gas-filled tube for ionizing said tube when said level changes suddenly.

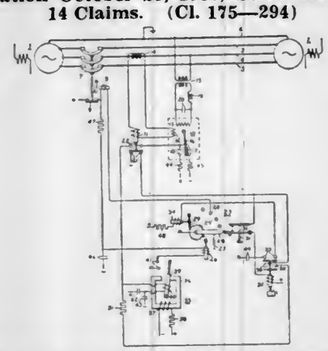
2,169,852
COFFEE MAKER
Carl F. Scott, Milford, Conn., assignor to General Electric Company, a corporation of New York
Application September 10, 1937, Serial No. 163,280
6 Claims. (Cl. 53—3)

1. A coffee maker and the like comprising a water chamber, a water heating chamber, a coffee compartment in liquid communication with said heating chamber so that when the water in said heating chamber has been heated sufficiently it is forced into said coffee compartment by the generation of pressure in the heating chamber, a valve controlling the flow of water from the water chamber to the heating chamber, means locking said valve in its closed position, and means responsive to the water level in said heating chamber operating to release said locking means to open said valve when the water level in said heating chamber has fallen to a predetermined low



limit, and operating to move said valve to its closed position when a predetermined quantity of water has passed into said heating chamber.

2,169,853
SUPERVISION OF ELECTRIC SYSTEMS
Harold T. Seeley, Lansdowne, Pa., assignor to General Electric Company, a corporation of New York
Application October 29, 1937, Serial No. 171,694
14 Claims. (Cl. 175—294)

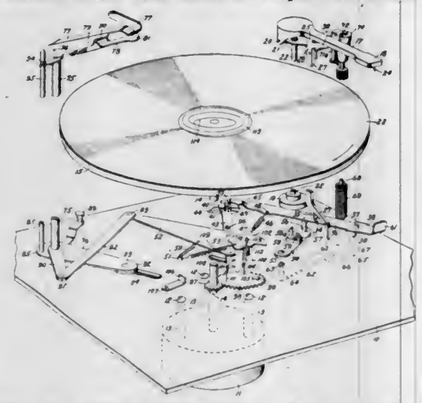


1. In combination, an alternating current system, a device to be operated, and means for operating said device after a predetermined number of reversals of flow in system power during abnormal current conditions of the system including means responsive to each change in the direction of flow of system power, means responsive to predetermined abnormal current conditions of the system, cumulative action means for effecting the operation of said device after a predetermined number of actuations in a predetermined time, and means controlled by said power directional and current responsive means for effecting actuations of said cumulative action means incuding a directional relay device having a member operable from one position to another position to effect an actuation of said cumulative action means when said power directional responsive means operates in response to power flow in one direction during abnormal current conditions of the system and to be returned to said one position when said power directional responsive means operates in response to power flow in the opposite direction during abnormal current conditions of the system.

2,169,854
PHONOGRAPH-RECORD CHANGER
Hugh M. Stephenson, Fort Wayne, Ind., assignor to General Electric Company, a corporation of New York
Application March 5, 1938, Serial No. 194,145
15 Claims. (Cl. 274—1)

9. In a phonograph having a record turntable and a reproducer, a driving gear, a pivoted arm,

a second gear, means for rotatably supporting said second gear on said pivoted arm, means for resiliently biasing said second gear to an out of engagement position with said first-mentioned gear during reproduction of a record, means arranged to cooperate with said first-mentioned resilient biasing means for resiliently biasing said second gear to engaged position with said first-mentioned gear upon completion of the reproduction to pivotally actuate said arm by the rotation of said gears in engagement, a mechanism associated with said pivoted arm for removing a record from said turntable upon actuation of



said arm after reproduction of a record, and means for resiliently biasing said pivoted arm to an inactive position and arranged to cooperate with said first-mentioned and second resilient biasing means for resiliently biasing said second gear into engagement with said first-mentioned gear over a portion of the operative cycle of actuation of said pivoted arm, said first-mentioned and third-mentioned resilient biasing means being arranged to cooperate to disengage said gears after removal of a record from the turntable and to bias said mechanism and said second gear to an inactive position upon disengagement of said gears.

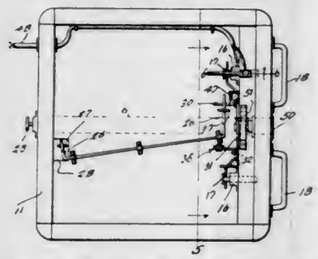
2,169,855

ARTICLE COLLECTION AND DELIVERY BOX

Samuel H. Stough, St. Clair, Ala.

Application November 17, 1938, Serial No. 241,077

5 Claims. (Cl. 232—41.4)



1. An article collection and delivery device comprising a casing having separate compartments, hinged front doors for opening and closing said compartments, a rear hinged door on said casing giving access to both compartments, latches arranged in said casing for securing the front doors closed, means operated by the opening of the rear door to actuate the latch of one of said front doors to permit an article positioned in one of the compartments to be removed, and means automatically operating the latch of the other door by the closing of the door of said latter-named compartment so that an article to be delivered may be positioned in the other compartment and the front door thereof adapted to be manually closed to prevent theft of the latter-named article.

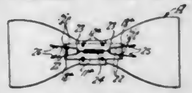
2,169,856

NECKTIE

Carl O. Swanson, Minneapolis, Minn.

Application March 30, 1938, Serial No. 198,840

5 Claims. (Cl. 2—154)



1. In combination with a ready tied necktie, means for supporting the necktie upon the flaps of a collar, the same comprising a rigid mounting member secured to the rear of the necktie, and hooked members slidably mounted on the mounting member and effective to releasably engage the collar flaps and support the necktie thereon.

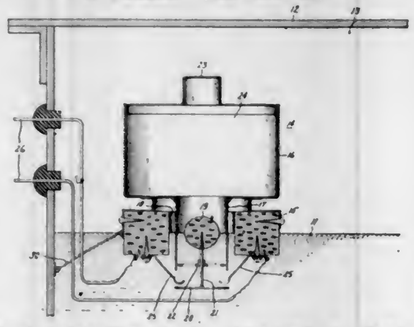
2,169,857

PROTECTIVE DEVICE FOR LIQUID IMMERSED ELECTRICAL APPARATUS

Edward D. Treanor, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application July 30, 1938, Serial No. 222,203

4 Claims. (Cl. 200—81)



4. A protective device arranged to float on the surface of insulating liquid, said device including a hollow vessel having an opening at its lower end, a second float within said opening, and contacts carried by said floats for controlling a protective circuit, said vessel having a restricted opening in its upper portion.

2,169,858

COMBINED VEHICLE AND BEEHIVE

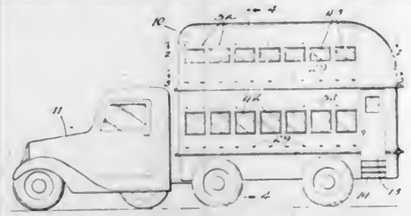
Theodore Turchenko, Lisle, Ill.

Application April 3, 1937, Serial No. 134,816

5 Claims. (Cl. 6—12)

1. In combination with a structure including a floor and a side wall extending upwardly therefrom, a plurality of beehives arranged in a row upon said floor and adjacent said wall, said beehives being in spaced relation with each other and spaced from said wall, a board extending from said floor and in spaced relation with said beehives, packing between the beehives, between the beehives and said wall and between the said board

and said beehives, and chutes extending from the faces of each of said beehives adjacent said wall and in contact with said wall, said wall being



provided with a plurality of apertures, one in communication with each of said chutes for affording access for the bees into the beehive.

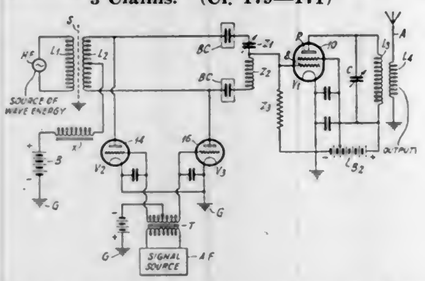
2,169,859

CARRIER REDUCED MODULATOR

George L. Usselman, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware

Application June 26, 1937, Serial No. 150,499

3 Claims. (Cl. 179—171)



1. In a modulation system, a source of wave energy to be modulated, a combining tube having a control grid and a cathode, a reactance coupled to said source of wave energy, impedances of different character coupling said reactance to the control electrode of said tube, a connection between the cathode of said tube and a point of symmetry on said reactance so that both sides of said circuit are substantially balanced, and means for unbalancing said circuit in accordance with signal frequencies, whereby sideband energy, the amplitude and phase of which varies in accordance with signal oscillations, and carrier energy of relatively small amplitude appears in the output circuit of said tube.

2,169,860

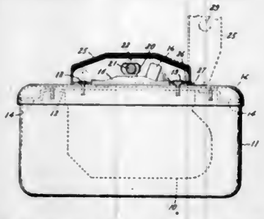
GUARD MEANS FOR ELECTRIC SWITCHES

Fred G. von Hoorn, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application February 12, 1937, Serial No. 125,406

4 Claims. (Cl. 70—203)

4. In an electric switch having a face plate and an operating lever extending through an aperture in the face plate for movement between a plurality of operating positions, the combination of a guard member for said operating lever provided with side walls on opposite sides of said lever, detachable means for securing said guard member to said face plate with said side walls extending substantially parallel with the path of movement of said operating lever, said detachable securing means requiring a tool for manipulation thereof to attach or detach said guard member, and said side walls being provided with apertures oppositely disposed with respect to each other, an enclosing member covering said detachable



means and provided with apertures aligned with the apertures in said side walls, a bar disposed in said apertures in the path of movement of said operating lever, and locking means for preventing ready removal of said bar.

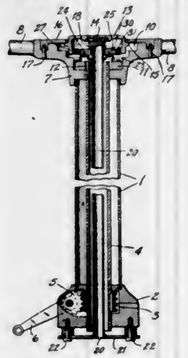
2,169,861

STEERING MECHANISM FOR AUTOMOBILES

Edward J. Walsh, St. Louis, Mo.

Application December 23, 1935, Serial No. 55,828

7 Claims. (Cl. 116—31)



1. In a steering mechanism, the combination of a tubular steering shaft and a steering wheel, of a second tubular shaft extending through said steering shaft, a rigid connection at the lower end of said second shaft, a gear fixed to the upper end of said steering shaft, an arm supported by said second shaft, two pinions on said arm, one of which meshes with the said gear, a horn button, and a gear ring fixed to said horn button and meshing with the other of said pinions.

2,169,862

ELECTRIC FUEL PUMP

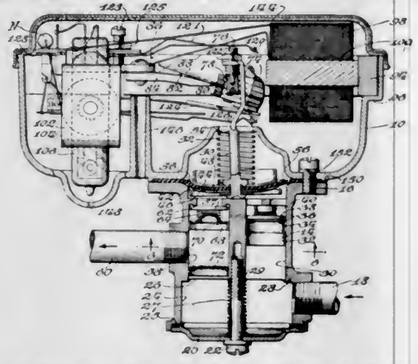
John B. Whitted, Glencoe, Ill., assignor to Stewart-Warner Corporation, Chicago, Ill., a corporation of Virginia

Application March 5, 1937, Serial No. 129,108

14 Claims. (Cl. 103—150)

1. An efficient electric fuel pump comprising a diaphragm, a diaphragm chamber, an electric motor for raising said diaphragm, a spring for lowering said diaphragm, means for cutting out said motor just prior to completion of the full upward movement of said diaphragm, whereby fuel entering said diaphragm chamber may bulge said diaphragm upwardly, and filter means associated with said diaphragm chamber and permitting fuel to flow thereinto to bulge said diaphragm upwardly, said filter means comprising

a circular chamber forming a water trap, a screen above said chamber, and means providing a passageway connecting said last named chamber with said diaphragm chamber, said water trap chamber having an inlet adjacent said passage.

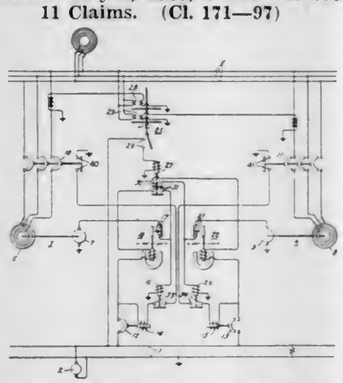


2,169,863

SYSTEM OF ELECTRIC DISTRIBUTION

Arvid E. Anderson, Drexel Hill, and Herman Bany, Lansdowne, Pa., assignors to General Electric Company, a corporation of New York

Application May 7, 1938, Serial No. 206,624
11 Claims. (Cl. 171—97)



11. In combination, an alternating current supply circuit, a direct current load circuit, a plurality of motor generator sets interconnecting said circuits, directional means individual to each set and responsive to the direction of current flow between the associated generator and the load circuit, means responsive to the algebraic sum of the current flowing between the generators of said sets and said load circuit and means controlled by said directional means and said other current responsive means for effecting the disconnection of a set from said circuits in response to a reversal of current therein if the algebraic sum of the current flowing between the generators and the load circuit is also less than a predetermined amount.

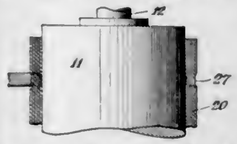
2,169,864

RECEPTACLE AND METHOD OF FORMING THE SAME

H Chester Aument, Long Island City, N. Y.

Application August 12, 1937, Serial No. 158,754
1 Claim. (Cl. 93—39.1)

A method of forming a receptacle which includes utilizing a web of material, applying the inner face of such web to a plain and uninterrupted supporting surface, subjecting a narrow area of the outer face of said web to a compressive action whereby to form a groove in such outer face, continuing such compressive action throughout such area while disposing one ply after another upon the initial layer of said web



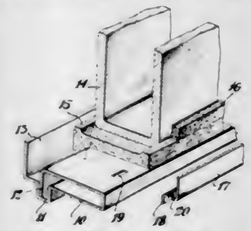
to furnish a tubular receptacle of multiply construction and each ply of which is formed with a grooved area of substantially the same width as those which are formed in adjacent plies, such grooved areas being continuous and nested one within the other in the complete receptacle, and said complete receptacle presenting an ungrooved inner face and an inwardly grooved outer face.

2,169,865

STRUCTURAL FRAME

John S. Banta, New York, N. Y.

Application October 16, 1937, Serial No. 169,357
4 Claims. (Cl. 189—75)



1. A building frame, with an inner opening and an outer wall receiving channel for insertion in a building wall, comprising; an integral body of constant gauge metal folded upon itself for a portion of its length to form substantially horizontal and spaced inner and outer members and further folded near one end to form a substantially vertical building material retentive member for bearing against one side of said wall; a removable building material retentive member for bearing against the other side of said wall and means for retaining said removable member in position on said horizontal outer member.

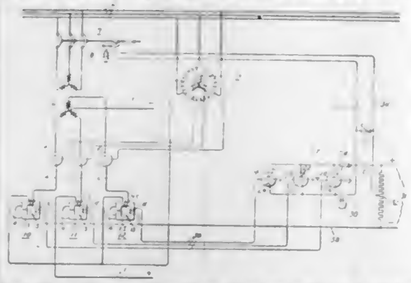
2,169,866

ELECTRIC CONTROL AND INDICATING MEANS

Burnice D. Bedford, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application January 30, 1936, Serial No. 61,529
2 Claims. (Cl. 171—119)

1. In combination, an electric conductor, and an electroresponsive device operative in accordance with the current transmitted by said conductor comprising a core member having an air gap, a permanent magnet biasing member bridging said air gap for effecting substantial saturation of said core member, a magnetizing member responsive to the current of said conductor for magnetizing said core member in the same direction as said permanent magnet biasing member when the current is in a predetermined direction and a winding responsive to a magnetic condition of said core member for providing a voltage when the current reverses direction.

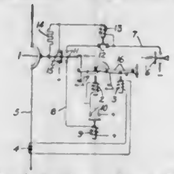


2,169,867

CONTROL OF ELECTRIC SWITCHES

Donald L. Beeman, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application July 6, 1938, Serial No. 217,687
9 Claims. (Cl. 175—294)



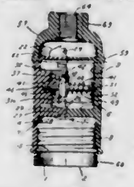
1. In a control system for effecting the closing operation of a trip-free circuit breaker provided with electromagnetic closing means and an 'a' auxiliary switch, means for effecting the energization of said closing means including a circuit and two serially related switches therein, an electromagnetic device for effecting the opening of one of said switches, and an energizing circuit for controlling the operation of said device including the other of said switches and a current limiting means in series therewith and in parallel with said 'a' switch, the ohmic value of said current limiting means being such as to cause a switch opening operation of said device only when the circuit breaker auxiliary switch is closed while said other switch is in the closed position and thereafter to maintain the device in the switch opening operated condition independently of the circuit controlling position of the circuit breaker as long as said other switch continues in the closed position.

2,169,868

ELECTRIC SOCKET

George B. Benander, Yalesville, Conn., assignor to Monowatt Electric Corporation, Bridgeport, Conn., a corporation of Connecticut

Application May 4, 1937, Serial No. 140,636
5 Claims. (Cl. 173—354)



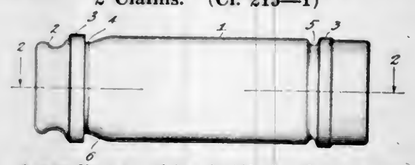
1. In an electric socket, a housing, a cap at one end of the housing, circumferentially spaced projections on said cap and said housing respectively, and a split ring having circumferentially spaced openings into which said projections fit for securing the cap to the housing.

2,169,869

VENDING MACHINE BOTTLE

Royden A. Blunt, Baltimore, Md.

Application November 5, 1937, Serial No. 172,897
2 Claims. (Cl. 215—1)



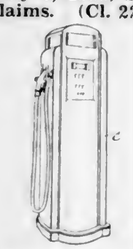
1. A vending machine bottle having a generally cylindrical wall, a constricted neck adapted to receive a cap thereover, integral projecting rings of the same diameter adjacent and substantially equidistant from each end of the bottle, against which adjacent bottles of similar construction roll and a group of such bottles maintains a straight path in rolling, and grooves in the bottle likewise adjacent each end on which the bottle is adapted to roll on ways in a vending machine.

2,169,870

SWITCH AND COMPUTER CONTROL DEVICE FOR FLUID PUMPS

William H. D. Brouse, Toronto, Ontario, Canada, assignor to International Metal Industries Limited, Toronto, Ontario, Canada

Application May 7, 1938, Serial No. 206,628
5 Claims. (Cl. 221—95)



1. In a fluid dispensing device, the combination with the fluid pump control mechanism and the computing mechanism having shutters movable to cover and uncover the indicator dials, of means connected with the shutter mechanism and operatively connected with the fluid pump control adapted on the operation of the pump control to move the shutter mechanism to obscure the indicator dials and thereby prevent reading thereof if the dials have not been returned to the zero position, said means including a rotary lost-motion drive connection between the pump control and the shutter mechanism.

2,169,871

ELECTRIC CIRCUIT INTERRUPTER

Hermann Burmeister, Berlin-Spandau, Germany, assignor to General Electric Company, a corporation of New York

Application May 5, 1937, Serial No. 140,901
In Germany June 20, 1936
2 Claims. (Cl. 200—149)

2. An electric circuit interrupter of the gas-expulsion type comprising arc-forming means,

and insulating means of the gas-evolving type defining a pressure-confining arc chamber therefor, said insulating means being composed of a composite, mechanically strong laminated structure of thin fiber sheets having perforations and a carbamide resin alternating with said fiber



sheets, said resin being molded to embed said sheets therein so that said resin is initially acted upon by said arc to yield arc-extinguishing gas, the thickness of said resin between said sheets being greater than the thickness of a single sheet.

2,169,872

LIQUID HALOGENATED COMPOSITIONS

Frank M. Clark, Pittsfield, Mass., and Walter M. Kutz, Pittsburgh, Pa., assignors to General Electric Company, a corporation of New York

No Drawing. Application September 3, 1938, Serial No. 228,396

11 Claims. (Cl. 252—1)

1. A composition the essential ingredients of which consist of liquid halogenated organic material which is subject to solidification at low temperatures within the range of natural ambient temperatures and a sufficiently large amount, greater than ten per cent, of tetrachlorbenzene which is soluble in said composition and opposes solidification.

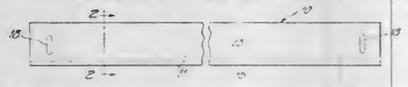
2,169,873

VENETIAN BLIND SLAT

William D. Clark, Jr., Belleville, N. J.

Application May 21, 1938, Serial No. 209,231

8 Claims. (Cl. 156—17)



1. A Venetian blind slat comprising a substantially flat tubular slat body constructed of flexible material having its opposed side walls arched outwardly from one longitudinal edge to the other to cause said body to be self supporting throughout its length.

2,169,874

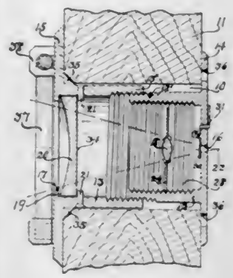
OBSERVATION DEVICE

William G. Hardt, Chicago, Ill.

Application March 1, 1938, Serial No. 193,319

3 Claims. (Cl. 88—1)

1. An observation device for a door and the like, comprising tubular means mountable in an aperture in a door and consisting of an inner portion and an outer portion which have threaded connecting means concealed in the aperture adapting the same for doors of different thicknesses, an integral annular plate on each portion engaging the inner and outer sides of the door and covering the ends of the aperture, there being a smaller opening in the inner plate and a larger opening in the outer plate, a pair of lenses in said tubular portions including a negative lens



of larger diameter mounted in the larger opening and a positive lens of smaller diameter mounted adjacent the smaller opening, and means carrying the smaller lens in the device and adjustable relative to the inner and the outer plates, thereby placing the principal focus closely adjacent the inner side of the door and permitting sight only outwardly therethrough.

2,169,875

LUGGAGE LATCH DEVICE

John J. Fanning, Brooklyn, N. Y.

Application November 13, 1937, Serial No. 174,279

4 Claims. (Cl. 292—306)



1. In combination, a suitcase or like article of luggage having a body section, and a cover section fixedly hinged to said body section, a latch device including a keeper member mounted on the body section comprising a fulcrumed latch plate extending inside of said body section and having a bolt receiving opening therein, a smooth latch bolt pivoted to the inside of said cover section, means for holding said bolt in either a folded non-operative out of the way position or in an operative alined position relative to said opening to cause said bolt to enter said opening on an arc as the cover section approaches its fully closed position relative to said body section, spring means acting upon said latch plate to cant the same to cause the walls of said opening to frictionally bind against said bolt to prevent outward movement thereof, and actuating means associated with said keeper member for tilting said latch plate to releasing position against the action of said spring means.

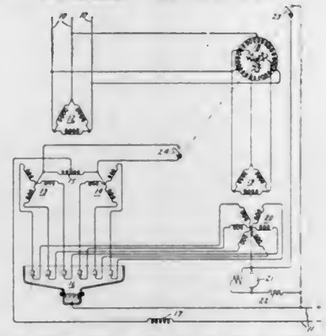
2,169,876

GRID CONTROL RECTIFIER

Carl C. Herskind, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York

Application July 1, 1938, Serial No. 217,090

4 Claims. (Cl. 175—363)



1. In combination, an alternating current supply circuit, a direct current load circuit, an electric valve converting system interconnecting said circuits, said system including a plurality of polyphase networks, an interphase winding, and a plurality of arc discharge valves, means for controlling the circuit relation of said interphase transformer, a control circuit for said valves including a source of periodic potential, means for controlling the phase relation thereof, a source of bias potential for said valves, and control means for controlling substantially simultaneously said phase controlling means, said bias potential, and said means for controlling the circuit relation of said transformer.

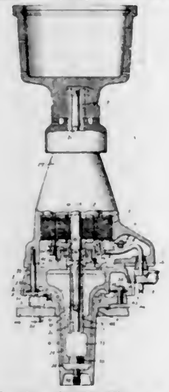
2,169,877

SPINNING SPINDLE

Frank C. Linn, Swampscott, Mass., assignor to General Electric Company, a corporation of New York

Application March 12, 1937, Serial No. 130,533

8 Claims. (Cl. 308—145)



1. A spinning device including a vertical shaft, a bearing arranged to support said shaft, a housing for said bearing, a second housing arranged about said bearing housing, and means including a fluxible annular member secured at spaced points to said bearing housing and at other points spaced intermediate said first mentioned spaced points to said second housing for flexibly supporting said bearing housing in spaced relation within said second housing, said second housing being arranged to contain a damping fluid therein surrounding said bearing housing.

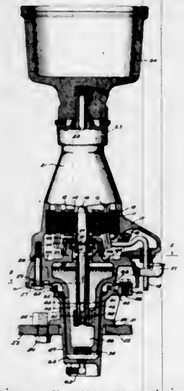
2,169,878

LUBRICATING ARRANGEMENT

Frank C. Linn, Swampscott, Mass., assignor to General Electric Company, a corporation of New York

Application October 26, 1937, Serial No. 171,045

5 Claims. (Cl. 308—187)



1. A lubricating arrangement including a bearing, a housing arranged to support said bearing, an upwardly extending shaft supported by said bearing and having a portion extending below said bearing, a sleeve supported by said housing in closely spaced relation about said portion of said shaft below said bearing, means adjacent the lower end of said sleeve for supplying lubricant thereto, said sleeve being imperforate from said last-mentioned means to the upper end thereof, and means carried by said shaft above said lubricant supply means and cooperating with said sleeve for supplying lubricant to said bearing.

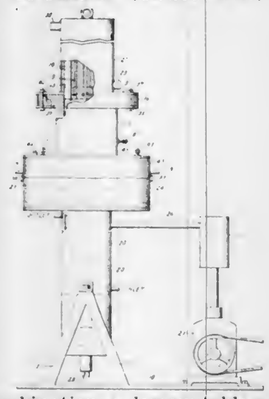
2,169,879

DEMOUNTABLE DISCHARGE APPARATUS

Elmer D. McArthur, Schenectady, N. Y., and Hobart E. Rowe, Pittsfield, Mass., assignors to General Electric Company, a corporation of New York

Application March 31, 1937, Serial No. 134,046

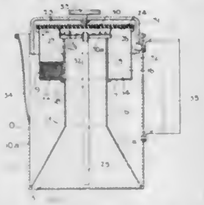
13 Claims. (Cl. 250—27.5)



1. In combination, a demountable envelope en-

closing an anode and a cathode, said cathode being coated with an activating material subject to deterioration in the presence of hydrocarbon vapors, means connecting with the envelope for continuously evacuating the same, said means including a diffusion pump employing a liquid hydrocarbon operating medium, and means including a quantity of gas absorbent material interposed between the envelope and the evacuating means for preventing the passage of hydrocarbon vapors from the diffusion pump into the envelope.

2,169,880
COFFEE MAKER
Roderick S. McNeil, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York
Application September 10, 1937, Serial No. 163,279
5 Claims. (Cl. 53—3)



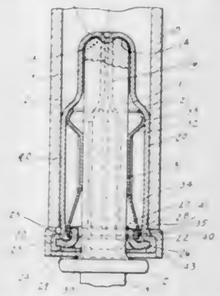
1. A coffee maker comprising a compartment for heating water having an opening in its upper end through which water is introduced, a water delivery tube of relatively small diameter inserted through said opening, a support for said delivery tube arranged to be fitted to said opening to close it to prevent loss of pressure from the compartment, a water delivery chamber above said opening and connected with the discharge of said tube, the delivery chamber providing for radial disposition of the water fed to it from the tube, a closed container for coffee grounds around the compartment and arranged so that the water disposed by the delivery chamber is spread over the upper area of said container, the container having a discharge port and a fine mesh screen over said port.

2,169,881
REAGENT USED IN SIMULTANEOUS DYEING AND DEGUMMING FABRICS
Hugh Harold Mosher, Nutley, N. J., assignor to The Richards Chemical Works, Incorporated, Jersey City, N. J., a corporation of New Jersey
No Drawing. Application January 7, 1938, Serial No. 183,803
1 Claim. (Cl. 8—19)

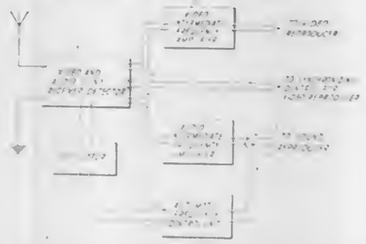
A silk degumming and dyeing bath, comprising soap, a boil off oil, a degumming alkaline salt, a direct dye and an oxidizing color stabilizer having protein coagulation properties sufficiently potent to convert solubilized sericin into insoluble colloidal form but not substantially to prevent elimination of sericin from the material being treated, said color stabilizer being a compound selected from the class consisting of sodium or potassium dichromate, phosphotungstate, phosphomolybdate and cadmium sulfate.

2,169,882
CASTER SOCKET
Clarence B. Noelting and William H. Noelting, Evansville, Ind., assignors to Faultless Caster Corporation, Evansville, Ind., a corporation
Application March 30, 1936, Serial No. 71,652
17 Claims. (Cl. 16—38)

1. A caster socket for tubular legs, including a socket member having a central, elongated, tubular portion terminating in a top bearing and a pair of downwardly directed arcuately sectioned arms being arranged for frictional contact with upper ends by arched portions, and outwardly extending laterally grooved lower ends, a centrally apertured plate adapted for pintle passage and seatable in the grooves, the outward extensions being arranged for lateral load support, the arms connected to the tubular portion at the the interior of a tubular leg for socket retention, and an elongated split sleeve type retainer loosely mounted within the chamber formed by the socket member and the plate for elongated cylindrical frictional contact with a pintle for detachable retention thereof.



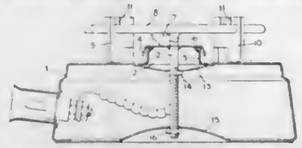
2,169,883
TELEVISION AND SOUND RECEIVER
Georg Paffrath, Berlin-Sudende, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application November 2, 1937, Serial No. 172,324
In Germany October 17, 1936
5 Claims. (Cl. 178—5.8)



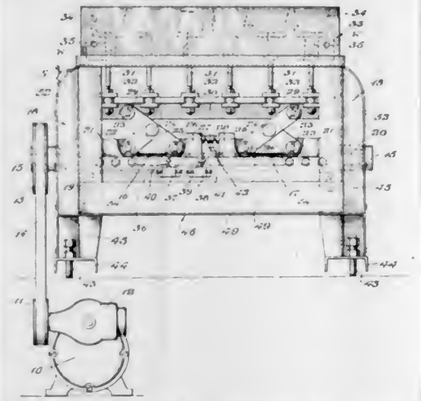
1. A system for simultaneously receiving sight and sound signals comprising a receiver detector unit, an oscillator connected with the receiver detector unit to produce separate intermediate frequency signals for both the received sight and sound signals, and means for controlling in accordance with the produced intermediate frequency sound signals the tuning of the oscillator for maintaining predetermined tuning for the receipt of both of the signals.

2,169,884
HOT PLATE
Karl Prade, Nuremberg, Germany, assignor to General Electric Company, a corporation of New York
Application February 28, 1938, Serial No. 193,189
In Germany March 18, 1937
3 Claims. (Cl. 219—37)

3. An electric hotplate comprising a sheathed heating element having down-turned terminal ends, a supporting casing having a top wall that holds said heating element, said top wall having a central opening about which there is an upright flange, a cover on said flange closing said opening, the cover having a down-turned flange overlapping said upright flange, the down-turned terminal ends of said heating element being directed through said cover and having moisture-proof joints with said cover, a trough-shaped radiation plate below said opening at the bottom, and means detachably securing said radiation plate in its closing position.



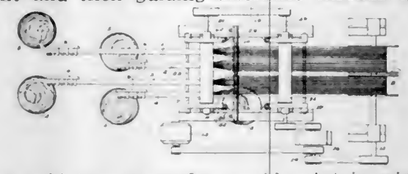
2,169,885
CASTING APPARATUS
Albert Henry Jung, Flushing, N. Y., assignor to United American Metals Corporation, Brooklyn, N. Y., a corporation of New York
Application June 25, 1938, Serial No. 215,909
7 Claims. (Cl. 22—94)



1. A casting apparatus including a mold and means for ejecting castings from said mold including an ejector element, means for imparting toggle action leverage to said element comprising a toggle mechanism, motor means for effecting operation of said toggle mechanism, manual control means for forward operation of said motor means, means responsive to a predetermined position of said toggle mechanism for effecting cessation of operation of said motor means, manual control means for effecting reverse operation of said motor means, and means responsive to another predetermined position of said toggle mechanism for again effecting cessation of operation of said motor means.

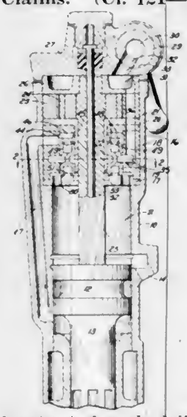
2,169,886
MANUFACTURE AND USE OF RUBBER THREAD
Kenneth R. Shaw, Easthampton, Mass., assignor to Easthampton Rubber Thread Co., Easthampton, Mass., a corporation of Massachusetts
Application May 13, 1937, Serial No. 142,417
10 Claims. (Cl. 28—1)

1. In a machine for operating on rubber threads, the combination of apparatus for acting on a tape composed of rubber threads adhesively united to each other to split said tape into its component threads, means for feeding said tape to said apparatus, and additional means for feeding said threads away from said apparatus, said apparatus including devices cooperating with said means for guiding said tape to a splitting point and then guiding alternate threads split



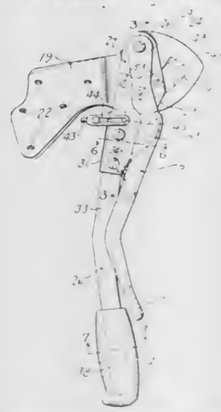
from said tape away from said point in widely divergent directions; and mechanism for driving both said feeding means at such speeds as to maintain the tape and said threads stretched as they pass through said splitting apparatus, whereby the tension so applied cooperates with their divergent directions of travel to split the tape into its component threads approximately at said point.

2,169,887
VALVE FOR ROCK DRILLS
William A. Smith, Jr., Cleveland, Ohio, assignor to The Cleveland Rock Drill Company, Cleveland, Ohio, a corporation of Ohio
Application September 30, 1938, Serial No. 232,548
6 Claims. (Cl. 121—19)



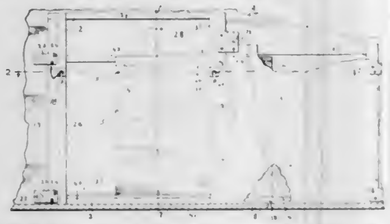
1. In a fluid actuated rock drill, the combination of a cylinder and a piston reciprocable therein, a valve block having a valve chamber, front and rear inlet passages leading from said chamber to the ends of said cylinder, a sleeve-like valve reciprocable within said chamber to control said passages, a circular groove within each end wall of said valve having motive fluid constantly admitted therein and forming a pair of annular lands on each end of said valve, valve seats within said chamber engageable by said lands to control the admission of the motive fluid into the ends of said cylinder, said lands formed with shifting areas for said valve subjected to pressure conditions within said cylinder for shifting said valve into operative engagement with one or the other of said valve seats, and holding areas for said valve formed by each pair of said lands alternatively subjected to the motive fluid flowing into said cylinder for momentarily holding said valve in said operative engagement.

2,169,888
MECHANISM CONTROL
Samuel A. Snell, Toledo, Ohio, assignor, by mesne assignments, to The Logan Gear Company, a corporation of Ohio
Application May 23, 1936, Serial No. 81,515
13 Claims. (Cl. 74—531)



1. An emergency brake control mechanism comprising a support; a lever member depending from said support; said lever having a body portion including a bar-like section and a portion including spaced parallel projections, said projections adapted to straddle a portion of said support and having pivotal connection therewith; clutching means cooperating with said support and said lever including a clutch roller; clutch releasing means having pivotal connection with said lever member, said clutch releasing means having vertically elongated slots; means cooperating with said clutch roller extending into said slots, said slots permitting independent movement of said clutch roller with respect to said clutch releasing means when said clutch roller is moved to clutching position.

2,169,889
DETACHABLE GRAIN DOOR UNIT FOR BOX FREIGHT CARS
James D. Waterbury, Utica, N. Y.
Application December 10, 1936, Serial No. 115,159
6 Claims. (Cl. 20—27)



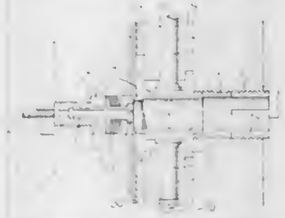
1. In a readily attachable and detachable grain door unit for application to the inside of a box freight car, the combination of an open frame having a top, a doorsill and opposite side posts, the aperture of said frame being approximately the size of the doorway of a box freight car, slideways in the aperture faces of said side posts and doorsill, a door of less height than said aperture and slidingly mounted in the slideways of the said posts for vertical movement therein and a housing extending laterally at one side of the frame and interiorly as high as said door and having at its bottom a slideway in continuation of the slideway in the doorsill, said housing being grain-tight and composed of two complete, spaced walls connected permanently and rigidly by a top, a back strip, said bottom slideway and the adjoining side post of the said open frame, the side post adjacent the housing having its slideway extended through the post for the height of the door whereby the door may be slid laterally partway or wholly from the door aperture into said housing.

2,169,890
TELESCOPING CONVEYER
William J. Zink, Birmingham, Ala., assignor to Mathews Conveyer Company, Ellwood City, Pa., a corporation of Pennsylvania
Application February 21, 1938, Serial No. 191,799
3 Claims. (Cl. 198—139)



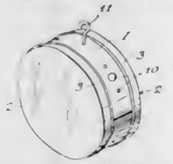
1. A conveyer of the character described comprising a wheeled support, a conveyer unit mounted on said support and having side frames extending longitudinally beyond each end of said support, caster wheels supporting the outer end portion of said conveyer unit, a second conveyer unit having a pair of wheels adjacent its inner end portion engaged with the side frames of the first mentioned unit and the outer end of said second unit having a ground engaging wheel whereby said second conveyer unit may be moved longitudinally with respect to the first mentioned conveyer unit, a single endless belt passing over the top surfaces of said conveyer units in the same direction, said belt being arranged in overlapping loops to permit the second unit to move longitudinally with respect to the first unit without substantial variation of tension of the belt, and means for driving said belt.

2,169,891
PRINTING AND PERFORATING APPARATUS
Arthur G. Beal and Bernard Holmberg, Foxboro, Mass., assignors to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts
Original application February 7, 1936, Serial No. 62,846. Divided and this application November 24, 1937, Serial No. 176,158
5 Claims. (Cl. 164—86)



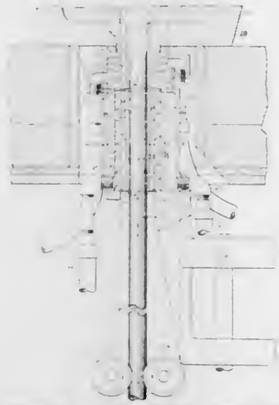
3. Punching apparatus comprising a hollow cutter having a cutting edge, a support for said cutter, a plate having a recess provided with an inner shoulder, a hollow plug having a flanged head bearing on said shoulder, a block having a central opening provided with an inner shoulder, a headed retainer engaging said shoulder and extending through said opening and secured to said plug to hold the block in operative position, said retainer having a longitudinal passageway opening through its head portion, a resilient buffer between the block and the hollow plug, means for supplying air under pressure to be released through said plug and said retainer, and means for bringing said cutter and said block into sheet punching engagement.

2,169,892
CONTAINER
John E. Bevington, East Cleveland, Ohio, assignor to Sidney J. Evans, Cleveland, Ohio
Application March 22, 1937, Serial No. 132,240
5 Claims. (Cl. 220—76)



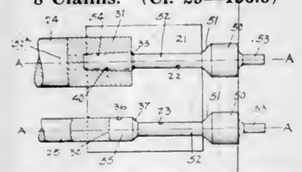
5. A container comprising a peripheral wall constructed of a continuous piece of material having one of its ends abruptly offset inwardly substantially the thickness of the material and underlying the opposite end of the piece, said opposite end having a slit substantially parallel to and near its lateral edge to provide a finger, the same being offset inwardly to underlie the first mentioned end, and a flanged end wall telescoped over an end of the peripheral wall and concealing the same to a point inwardly of said slit.

2,169,893
COOLING MEANS FOR CONTINUOUS CASTING APPARATUS
Donald K. Crampton, Marion, and Clarence Thulin, Waterbury, Conn., assignors to Chase Brass & Copper Co., Waterbury, Conn., a corporation of Connecticut
Application November 1, 1937, Serial No. 172,082
9 Claims. (Cl. 22—57.2)



1. A laterally-contractible heat-transmitting liner for use in the cooling-chambers of continuous casting apparatus, comprising a plurality of liner-members exteriorly tapered to conform to longitudinally-tapered passages in the said cooling-chambers and shaped interiorly to form a laterally-contractible longitudinal passage between them of substantially-uniform cross-sectional form throughout their length for the reception of rod-like cast-metal, the said liner-members being constructed to be arranged in contractible-engagement with the walls of said tapered passages with laterally-spaced longitudinal edge-portions providing longitudinal clearance-gaps therebetween to permit the transverse contraction of the said liner-members during the endwise movement of the heat-transmitting liner toward the contracted end of the said tapered passages.

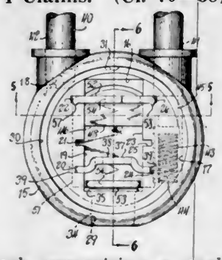
2,169,894
METHOD OF FORMING BLANKS
William W. Criley, Cleveland, Ohio
Application April 29, 1937, Serial No. 139,754
8 Claims. (Cl. 29—156.5)



1. The method of making connecting rods which consists in heating a blank, forming part thereof into a head, extruding part thereof into a shank portion, and upsetting another head on said shank portion without reducing the cross-section of said shank portion, and subsequently applying lateral pressure always in the same direction, thereby die forging the blank so formed into a connecting rod whereof the crank-pin bearing is formed from the first-named head, the wrist-pin bearing is formed from the second-named head, and the beam of the rod is formed from the remaining extruded portion.

2. The process of forming a blank for connecting rods and the like which comprises taking a slug wherein the fiber lines extend longitudinally, die expressing a portion of said blank in the direction of said fiber lines into a shank of reduced cross section and leaving the rest of the blank as a head upon the shank, with fiber lines in said head and in said shank paraxially disposed with respect to the longitudinal axis, followed by gathering the end of the shank opposite the head, followed by a further shortening and thickening of said gathered end also by axially directed pressure.

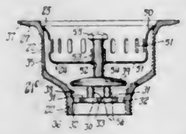
2,169,895
PADLOCK
William E. Evans, Waterbury, Conn., assignor to The Waterbury Lock & Specialty Company, Milford, Conn., a corporation of Connecticut
Application December 28, 1938, Serial No. 248,075
4 Claims. (Cl. 70—38)



1. A padlock comprising a casing having a central opening, transverse grooves and spring notches in the side walls of the casing, a key tumbler mounted in said grooves, a vertically-movable shackle, a spring to hold the shackle

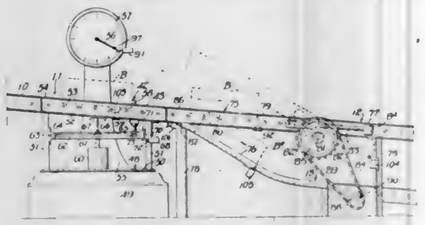
in a locked position, said spring formed with head seated in one notch, one leg of the spring extending into the other notch to engage the shackle, the other leg formed with a finger, and a housing mounted in the casing and adapted to hold all of the parts of the lock in position and formed with a slot to receive said finger.

2,169,896
METHOD OF PRODUCING WASTE-PIPE FITTINGS
William J. Gazey, Waterbury, Conn., assignor to Chase Brass & Copper Co., Incorporated, Waterbury, Conn., a corporation
Application September 26, 1938, Serial No. 231,659
5 Claims. (Cl. 29—157)



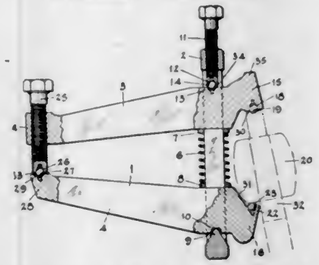
1. A method of producing waste-fittings for connection to waste-pipes or the like, comprising: subjecting a mass of metal to a forging operation to provide an upper portion of relatively-large diameter, a lower throat-portion of relatively-small diameter, and a transverse wall extending across the interior of the said throat-portion; and then removing a portion of the said transverse wall in the said throat-portion to provide a drainage-passage therethrough and ledge-like projections therein spaced apart by receiving-gaps for respectively supporting and receiving positioning-means of a valve-plug for the said drainage-passage.

2,169,897
COMBINED CONVEYING AND WEIGHING APPARATUS
William J. Lueckel, New York, N. Y., assignor to Dunning Lueckel Engineering Company, New York, N. Y., a copartnership, composed of Harry Dunning and William J. Lueckel
Application January 16, 1937, Serial No. 120,930
27 Claims. (Cl. 209—121)



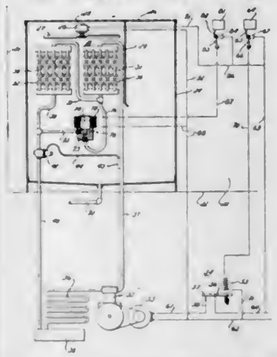
1. An apparatus of the character described comprising a weighing station, means for delivering packages or other articles to said weighing station, a plurality of means selectively operated at the weighing station according to the weight of the package for controlling the discharge of packages over different paths, means associated with both of said discharge paths and operated by the passage of an article over either thereof for resetting said discharge controlling means, and means in part under the control of said resetting means for controlling the operation of said delivering means.

2,169,898
PROPELLER PULLER
Robert A. Minderman, Port Clinton, Ohio
Application October 29, 1938, Serial No. 237,787
2 Claims. (Cl. 29—85)



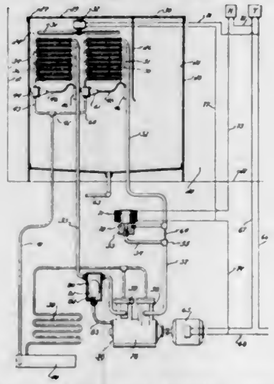
1. A propeller puller, a rod having a slot extending lengthwise the rod and having closed ends, a pair of lever bars located in the slot of the rod and having heads disposed in proximity to the rod, each of the heads having a rotatable hardened steel ball secured therein for engaging mechanical elements to be relatively moved by pressure, a machine screw extending through one end of one of the bars and having a part adapted to engage an end of the other of the bars, and a machine screw extending through the end of the rod and into the slot of the rod and having a part for engaging one of the bars, the screws operative to maintain substantially a constant relation of the parts and produce a high pressure upon the mechanical elements.

2,169,899
AIR CONDITIONING SYSTEM
Lawrence A. Philipp, Detroit, Mich., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application November 14, 1933, Serial No. 697,940
Renewed January 11, 1939
11 Claims. (Cl. 62—6)



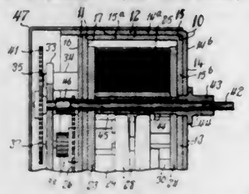
1. In an air conditioning system, a refrigerating apparatus comprising in combination, heat dissipating means, a heat absorber having a plurality of sections for cooling a common medium, one of said sections having its inlet connected with the outlet of the dissipating means for receiving refrigerant therefrom, a second heat absorbing section having its inlet connected with the outlet of the first absorber section and having its outlet connected with the inlet of the heat dissipating means, a conduit paralleling the first heat absorber section, and means responsive to a psychrometric condition of the medium cooled by the sections for controlling the flow of refrigerant through said conduit to vary the temperature differential between said sections.

2,169,900
AIR CONDITIONING SYSTEM
Lawrence A. Philipp, Detroit, Mich., assignor, by mesne assignments, to Nash-Kelvinator Corporation, Detroit, Mich., a corporation of Maryland
Application March 7, 1934, Serial No. 714,432
Renewed January 11, 1939
10 Claims. (Cl. 62—6)



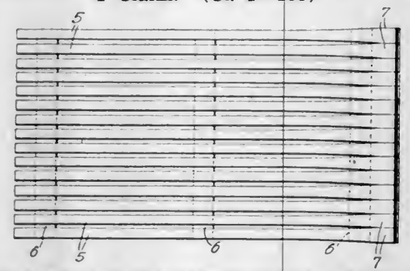
1. An air conditioning system comprising in combination, a heat absorber about which air to be conditioned is circulated; a second heat absorber operating constantly independently of the first heat absorber and about which air to be conditioned is circulated, two independent refrigerant withdrawing means for maintaining said constant independent operation between said two heat absorbers, and means responsive to the relative humidity of air for varying the cooling effect of one of said heat absorbers relative to the other.

2,169,901
COMBINED ELECTRIC MOTOR AND SPEED-REDUCTION-TRAIN UNIT
Arthur B. Poole, Bristol, Conn., assignor to The E. Ingraham Company, Bristol, Conn., a corporation of Connecticut
Application June 27, 1938, Serial No. 216,176
8 Claims. (Cl. 172—36)



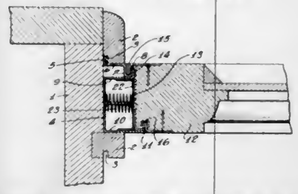
1. A combined electric motor and speed-reduction train including in combination: a field-structure having an annular series of salient poles; a rotor positioned within the interior of the said annular series of salient poles; an energizing-coil positioned around the exterior of the said annular series of salient poles; and a speed-reduction train operatively connected to the said rotor and including a rotary member located radially intermediate the inner periphery of the said ring-like energizing-coil and the outer periphery of the said rotor-unit and located circumferentially intermediate two of the salient poles of the said annular series thereof.

2,169,902
BATH MAT
Robert D. Ransom, Mount Vernon, Ohio
Application February 25, 1938, Serial No. 192,600
1 Claim. (Cl. 4—185)



In a stand of the class described, a body portion comprising a plurality of spaced parallel slats, means for securing the slats together, said slats having wide ends curved slightly upwardly, the side edges of the adjacent wide upwardly curved ends contacting and cooperating in providing a curved seat portion, the spaced between adjacent side edges of the slats providing drain openings, and means for securing the stand on the surface on which the stand is positioned.

2,169,903
WINDOW
George Frank Ruehl, Detroit, Mich.
Application March 23, 1936, Serial No. 70,352
2 Claims. (Cl. 20—49)

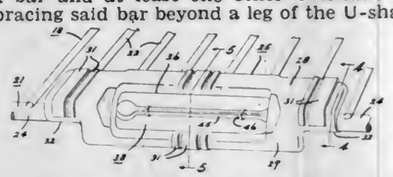


1. In a window structure including a frame, a movable window sash, channel-shaped side members receiving side portions of said sash and having opposite surfaces disposed toward adjacent sides of the frame, each of said side members having a longitudinal groove between said surface and said frame along one vertical edge of the sash and having a second longitudinal groove along the other edge thereof, channel-shaped members interposed one between each of said first named channel shaped members and an adjoining side of the frame and closed by said surfaces, each of said second-named channel-shaped members having border portions of its opposite longitudinal edges positioned for sliding movement in said grooves.

2,169,904
THERMOMETER BRACKET
Edmund F. Schweller, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 26, 1936, Serial No. 107,653
2 Claims. (Cl. 73—343)

1. In combination with a bar having a U-shaped portion formed therein, a bracket associated with said bar and having a part thereof constructed and arranged to receive and support a thermometer within the space formed by said

U-shaped portion of the bar, said bracket including an extended part attached to the yoke intermediate the legs of the U-shaped portion of said bar and at least one other extended part embracing said bar beyond a leg of the U-shaped



portion thereof, said bracket also having other extended parts which cooperate to secure the thermometer within the space formed by the U-shaped portion of said bar with the legs of the U-shaped portion limiting longitudinal movement of the thermometer.

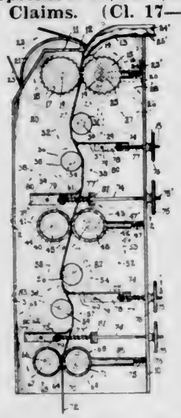
2,169,905

INTESTINE-CLEANING MECHANISM

Louis Sevek, Omaha, Nebr.

Application September 28, 1936, Serial No. 102,826

4 Claims. (Cl. 17—43)



1. An intestine cleaning device comprising a frame, a pair of opposed squeezing rollers carried by said frame and provided with longitudinally extending corrugations, spring-pressed means constantly urging one of said rollers toward the other roller, means connecting said rollers together for rotation in opposite directions, a second pair of spring-pressed pulling rollers carried by said frame, said second pair of rollers being formed of rubber and provided with helically disposed grooves, gear means connecting said second rollers with said first rollers for rotation at a peripheral speed greater than said first rollers whereby the intestine will be stretched between said pairs of rollers, and a pair of vertically spaced apart outer surface cleaning blades carried by said frame between said pairs of rollers, said blades being disposed in different vertical planes and in planes offset from the plane of the meeting line of said pairs of rollers whereby the taut intestine will be forcibly moved across said blades.

2,169,906

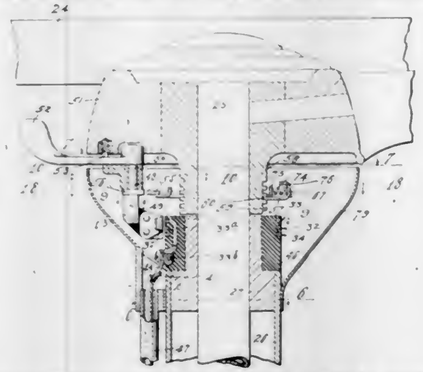
DIRECTION SIGNAL DEVICE FOR AUTOMOBILES

Paul D. Smith, Beloit, Wis.

Application April 3, 1937, Serial No. 134,743

7 Claims. (Cl. 200—59)

1. The combination with a relatively fixed hollow steering column and a turnable steering shaft in said column, of a normally open switch including a ring contact on the steering column and a co-operating manually operable movable contact on the steering shaft, a trip device including a pair of co-operating members, one of which is on the steering column and the other of which is on the steering shaft, for returning



the movable contact to neutral position during completion of turning movement of the steering shaft, and automatic means for moving one of said trip members into an inoperative position during initial turning movement of the steering shaft in a given direction and for returning the same to an operative position during completion of said turning movement.

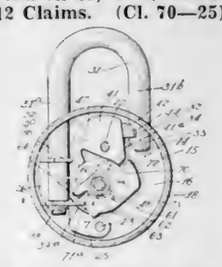
2,169,907

COMBINATION PADLOCK

Samuel M. Soref and James Keith Marshall, Milwaukee, Wis., assignors to Master Lock Company, Milwaukee, Wis., a corporation of Wisconsin

Application March 25, 1939, Serial No. 264,148

12 Claims. (Cl. 70—25)



1. A padlock comprising a case having openings, a shackle having legs slidable in said openings, one of said legs being longer than the other, shackle-locking means in said case including a rotatable tumbler movable to release said shackle, and means, rotatable co-axially with said tumbler and yieldably engageable therewith, actuated by the long leg of the shackle in its locking movement to turn said tumbler out of shackle-releasing position.

2,169,908

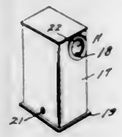
PENCIL SHARPENER

William F. Wells, Minneapolis, Minn.

Application December 19, 1938, Serial No. 247,786

8 Claims. (Cl. 120—93)

1. A pencil sharpener comprising a receptacle having an open face, a sharpener unit in the upper end portion of the receptacle, said receptacle having a compartment below the sharpener unit, said unit comprising a block having a conical bore the pencil receiving end of which is in said open face,



a slot in the under side of the block and extending into said conical bore, and a cutting blade the cutting edge of which is in said slot, and a cover capping the receptacle and normally closing the open face thereof.

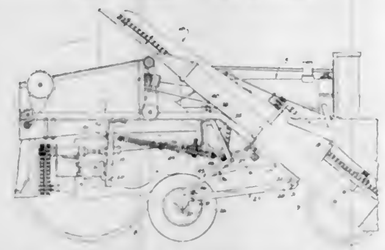
2,169,909

TRACTOR MOUNTED IMPLEMENT

Norman F. Andrews, Moline, Ill., assignor to Deere & Company, Moline, Ill., a corporation of Illinois

Application February 14, 1938, Serial No. 190,387

14 Claims. (Cl. 56—15)



1. In combination, a supporting frame carried on a pair of laterally spaced traction wheels and at least one dirigible wheel spaced longitudinally therefrom, an attachment frame supported on said supporting frame in normally fixed relation thereto, an additional supporting wheel disposed on an axis of rotation parallel to but spaced longitudinally from the axis of said traction wheels, means connecting said additional wheel to one of said frames permitting vertical movement relative thereto, and means acting downwardly upon said additional wheel and reacting upwardly against one of said frames for determining the weight carried on said wheel, said additional wheel being disposed appreciably closer to the axis of said traction wheels than to the axis of said dirigible wheel to permit steering said supporting frame by means of said dirigible wheels.

2,169,910

SOUND RECORDING SYSTEM

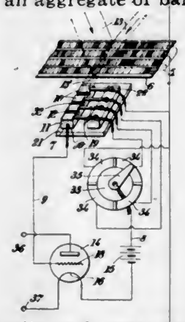
Max Arndt, Berlin, Germany

Application July 31, 1936, Serial No. 93,595

In Germany March 21, 1936

6 Claims. (Cl. 179—100.3)

1. Apparatus for scanning a plurality of parallel optical sound tracks arranged on a carrier strip, comprising a lens system including a physical light slit, a source of light for illuminating all the sound tracks through said slit, and a photoelectric device comprising a common metal base plate arranged parallel to said strip, a light-sensitive layer applied to said base plate in sections separated from one another, and light pervious counterelectrodes applied to said sections to form an aggregate of barrier layer photo-



electric cell units each arranged for cooperation with one of said sound tracks.

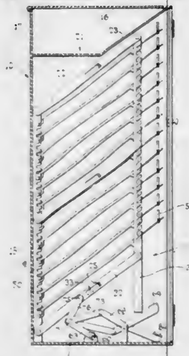
2,169,911

MIMI-O-FILE CABINET

Mildred M. Beatty, Albuquerque, N. Mex.

Application February 7, 1936, Serial No. 62,829

12 Claims. (Cl. 45—2)



1. A cabinet having filing mechanism therein comprising a frame supporting a plurality of parallel shelves in horizontal position, and means for moving said shelves from horizontal position to inclined position, said cabinet having a front door, and the front end of said shelves protruding through said door when in horizontal position and said shelves being wholly contained within said cabinet when in inclined position.

2,169,912

STEERING WALKING CULTIVATOR

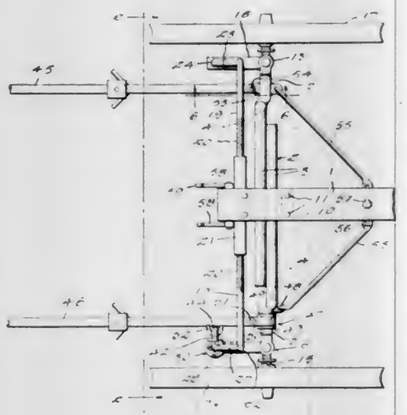
Zack T. Davis, Beebe, Ark., assignor of one-fourth to Joyce Adkisson Herndon, Mount Vernon, Ark.

Application May 26, 1938, Serial No. 210,277

5 Claims. (Cl. 97—155)

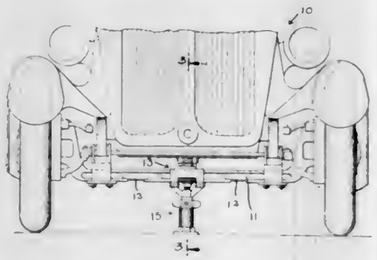
4. A steering machine of the character described, comprising a frame, a pair of axles pivotally coupled with the frame upon opposite sides for oscillation on vertical axes, supporting wheels carrying the axles, a ground working implement carrying beam attached to the frame adjacent each axle and adapted for swinging movement on a vertical pivot, one of said beams also being supported for oscillation in a vertical plane, a steering coupling connecting said axles together whereby oscillation of one axle on its axis will produce corresponding oscillation of the other

axle, means so constructed and arranged that upon vertical oscillation of the said one of the beams an operative connection may be established between the said one beam and the adja-



cent axle whereby the latter axle may be oscillated by lateral swinging of the beam connected therewith, and means for connecting a draft means to the machine.

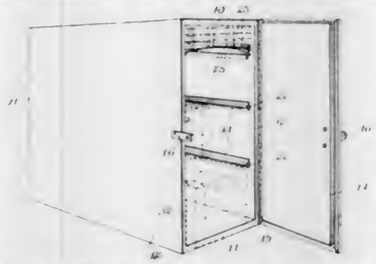
2,169,913
AUTOMOBILE JACK
Joseph M. De Nault, New York, N. Y.
Application August 11, 1938, Serial No. 224,283
1 Claim. (Cl. 254—86)



An automobile having a front axle formed with a plurality of spaced grooves at the underside theref, a bracket slidably mounted on said axle, and movable longitudinally thereof to positions in alignment with said grooves, an automobile jack hinged to said bracket about a horizontal axis, a crank for raising or lowering said jack having a hinged connection to said jack, a hook hinged to said automobile and adapted to engage said jack when the latter is swung upwardly away from the ground, and a chain interconnecting said hook with the chassis of the automobile.

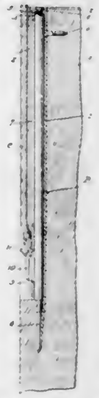
2,169,914
COOLER
Edward G. Hoch, Minneapolis, Minn.
Application September 23, 1937, Serial No. 165,319
8 Claims. (Cl. 62—53)

1. In a cooler, a cooling compartment having side walls, shelves secured thereto, an ice compartment, and means directing the water created by the melting of the ice over the inner surface



of the side walls of said cooling compartment adjacent said shelves.

2,169,915
SASH CORD FASTENER
Thomas F. Keelen, Brooklyn, N. Y.
Application June 6, 1938, Serial No. 212,206
1 Claim. (Cl. 16—202)

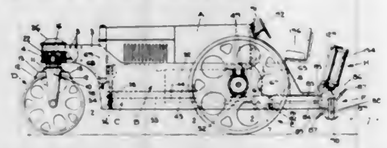


A sash cord fastener including a longitudinally channelled member having a longitudinal slot, the channel in said member having a wall at one end, means projecting from the other end of the member for insertion into the end wall of a channel in a sash, a strip slidable into and out of position within the channelled member, means extending from one end thereof for lapping the end wall of the channel in said member, means engaging the lapping portions for holding them together detachably, and means on the strip and exposed within the slot for attachment to a sash cord.

2,169,916
ROAD BUILDING MACHINE
Raymond W. Keeler, Galion, Ohio, assignor to The Galion Iron Works and Manufacturing Company, a corporation of Ohio
Application June 21, 1933, Serial No. 676,906
Renewed July 22, 1938
42 Claims. (Cl. 180—1)

1. In a self-propelled vehicle, the combination with an engine, of power transmission mechanism, a chassis frame, traction wheels connected to said power transmission mechanism, guide blocks extending laterally from said chassis frame at the axis of said traction wheels, a supplemental frame, guide frames on the inner sides of said supplemental frame and fitting the vertical

spaced-apart sides of said guide blocks, cross-pieces connecting the upper and lower ends of said vertical spaced-apart sides of said guide frames, springs between the tops of said guide blocks and the said upper and lower cross-pieces, and apparatus for steering the vehicle.



18. In a vehicle, the combination with a supporting frame, of a steering unit therefor, a fluid pressure motor connected to said steering unit to operate the same, a steering wheel, a rotary non-reciprocating shaft connected to said wheel to rotate therewith, a cam device connected to said shaft to rotate therewith, non-rotary rectilinearly movable valve mechanism for controlling said motor, means actuated by said cam device for imparting rectilinear movement to said valve mechanism upon manual rotation of said steering wheel, and resilient means for returning the valve mechanism and the steering wheel automatically to initial positions upon release of said wheel.

2,169,917
ROAD ROLLER
Raymond W. Keeler, Galion, Ohio, assignor to The Galion Iron Works & Manufacturing Company, a corporation of Ohio
Application February 25, 1937, Serial No. 127,719
5 Claims. (Cl. 262—8)

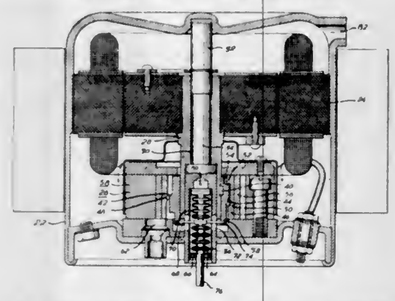


1. In a road working machine, the combination with a vehicle, of a scarifier, spaced apart parallel motion devices connecting said scarifier to said vehicle for adjustment in elevation relative thereto, said parallel motion devices being adapted to serve as draft connections between said holder and said vehicle, adjustable ground engaging supports connected to the ends of said scarifier, mechanism for holding said supports in adjusted positions to predetermine the transverse inclination of the scarifier in operation, a fluid pressure motor pivotally connected to said vehicle on an axis extending transversely of the vehicle and pivotally connected to said scarifier on an axis extending longitudinally of the vehicle, and means for controlling said motor to hold the scarifier down to its work at the aforesaid transverse inclination to effect scarifying operations in accordance with the desired crowning of the roadway.

2,169,918
LUBRICANT
Armin Joseph Kraus, Jersey City, N. J., assignor to The Richards Chemical Works, Incorporated, Jersey City, N. J., a corporation of New Jersey
No Drawing. Application July 16, 1937, Serial No. 154,013
2 Claims. (Cl. 87—9)

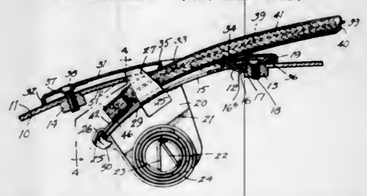
1. A highly viscous and stable lubricant comprising the product of polymerizing by means of a catalyst consisting of a solution of raw caoutchouc in hepta and octa naphthenic acids, a readily sulphurizable material selected from the class consisting of mineral waxes present in asphalt base crudes and oils and fats of vegetable and animal origin, in the presence of a hydrocarbon containing naphthenic acids and capable of being polymerized without previous sulphurization.

2,169,919
REFRIGERATING APPARATUS
Andrew A. Kucher, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application December 29, 1934, Serial No. 759,759
11 Claims. (Cl. 62—115)



1. A refrigerating apparatus comprising in combination an evaporator, a condenser, a motor, a compressor operated by said motor, and thermostatic means for unloading and reloading the compressor to vary the heat absorbing capacity of said apparatus while the compressor runs at substantially constant speed, said means including a device for varying the stroke of the compressor.

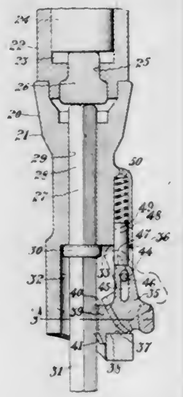
2,169,920
BRACKET FOR AUTOMOBILE ROBE RAILS
Arthur Claud-Mantle, Trumbull, Conn., assignor to The Bassick Company, Bridgeport, Conn., a corporation of Connecticut
Application June 3, 1938, Serial No. 211,480
6 Claims. (Cl. 24—123)



4. In a bracket for an automobile robe rail cord or the like for attachment to an automobile body structure or the like, said body structure having an opening therein, a spring mounting member having a securing portion adapted to be secured to said body structure at its outer side at one side of said opening and a portion extending through said opening to the interior of said body structure, said securing portion having an outwardly offset lip, a spring mounted upon said spring mounting member, a robe rail cord extending through said opening to the interior of said body structure, a clip member secured to the end of said cord and removably engaged by the end of said spring, said spring adapted to exert inward

pull upon said cord, stop means on said spring mounting member for limiting the movement of said spring in cord pulling direction, stop means on said spring mounting member for limiting the outward movement of said cord, an escutcheon plate having a cord receiving opening and provided at one end with an inwardly bent lip adapted to be interlockingly engaged with said lip of said spring mounting member, and means for securing the other end of said escutcheon plate to said body structure at the other side of said body structure opening, said escutcheon plate being detachable from said body structure independently of said spring mounting member.

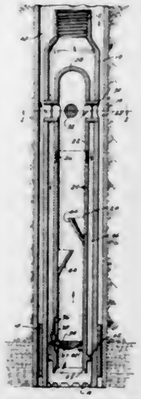
2,169,921
STEEL RETAINER
John F. Mock, Phillipsburg, N. J., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application January 8, 1938, Serial No. 183,941
5 Claims. (Cl. 279—19.5)



2. In a steel retainer, comprising in combination with a front head and a working implement having a collar, an aperture in the front head extending longitudinally thereof and having a flat seating surface at its front end arranged perpendicular to the axis of the front head, a retaining member slidable and tiltable in the aperture seating upon the seating surface, and a spring-pressed plunger to hold the retaining member against the seating surface.

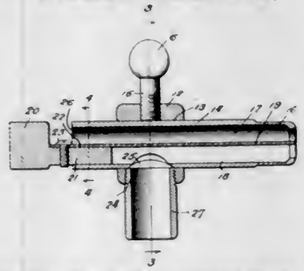
2,169,922
WELL CLEAN-OUT BAILER
Joseph H. Notley, Oklahoma City, Okla., assignor of one-half to Brauer Machine & Supply Company, Oklahoma City, Okla., a corporation of Oklahoma
Application January 23, 1939, Serial No. 252,446
6 Claims. (Cl. 166—19)

1. A bailer disposed in spaced relation to the casing in a well hole comprising a cylinder adapted to receive a fluid under pressure, a container arranged within the cylinder in spaced relation thereto and having its lowermost portion positioned away from the lowermost portion of the cylinder to allow fluid from the cylinder to stir up any debris encompassed by the cylinder and deposit it in the container, means providing an outlet for the fluid from the container into the casing, means in said outlet means preventing passage of any debris deposited in the container, and means provided in the container for



trapping the debris in the container upon release of the fluid pressure.

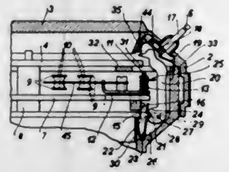
2,169,923
REFLUENT EAR NOZZLE
John J. Nowak, Buffalo, N. Y.
Application February 16, 1938, Serial No. 190,871
5 Claims. (Cl. 128—240)



2. Refluent ear nozzle comprising a tube open at both ends, having the inner end adapted to enter the ear, a removable partition insertable in the outer end of said tube and extending therethrough substantially to the inner end, a plug on one side of said partition closing the outer end of one of the passages defined by said partition, the adjacent end of the other passage being left open, and the ends of said passages at the inner end of said tube being in open communication with the ear cavity and with each other, and a connection from a source of vapor communicating with the passage and the closed outer end whereby a serial path for vapor flow is provided through said passages and the cavity of the ear.

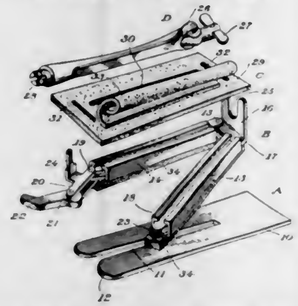
2,169,924
TIME SWITCH
Karl Öhreneder, Vienna, Austria
Application July 17, 1936, Serial No. 91,206
In Austria July 22, 1935
18 Claims. (Cl. 200—38)

2. In a time switch, a casing, a power applying mechanism housed by said casing, a switch mechanism within the casing for opening and closing an electrical circuit, and including a movable contact controlling member, elements in the casing for effecting actuation of said controlling member when said elements are set to their operative positions, a rotatable ring carried by the casing, and means carried by the ring and brought into operative relation with a selected



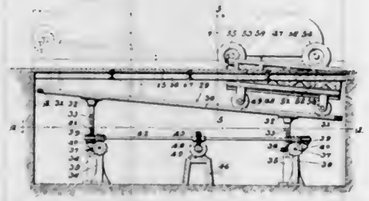
element by turning the ring, for setting the said selected element to its operative position, said ring constituting a part of said casing.

2,169,925
SCALP PROTECTOR
Victoria Parmentel, New Orleans, La.
Application December 6, 1938, Serial No. 244,281
4 Claims. (Cl. 132—36.1)



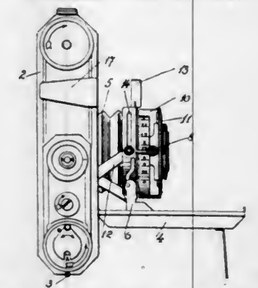
1. A protector for a hair curling device having a clamp provided with a saddle head at one end and a prong at the other end and a curler for seating in the head and engageable with the prong comprising a flexible pad slotted intermediate and near opposite ends, the end slots accommodating the head and prong, and a flap on the pad following the intermediate slot and intercurled with strands of hair about the curler.

2,169,926
GRADE CROSSING TRAFFIC CONTROL
James R. Rinks, Nashville, Tenn.
Application December 29, 1937, Serial No. 182,349
15 Claims. (Cl. 39—6)



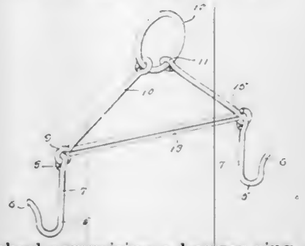
1. A traffic control comprising a carrier, an elevator supporting the carrier in a position normally below the level of a road which is traversible by a vehicle, means by which to raise the elevator so as to project a portion of the carrier into the path of the vehicle whereby the momentum of the vehicle will propel the carrier along the carrier, being progressively applied by the motion of the carrier to stop the vehicle.

2,169,927
PHOTOGRAPHIC FILM CAMERA WITH ELECTRIC EXPOSURE METER BUILT IN
Ödön Riszdorfer, Budapest, Hungary
Application February 24, 1937, Serial No. 127,495
In Hungary February 29, 1936
1 Claim. (Cl. 95—10)



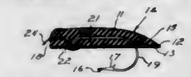
A photographic roll film camera having a casing provided with two spaced film spool chambers and a rectangular opening between said chambers, a folding cover plate hingedly secured to an edge of said opening adjacent one of said chambers, a movable lens carrier, a bellows connecting said lens carrier and the camera casing, said bellows being secured within said opening and along a line spaced from the edge of said opening opposite to the edge to which said plate is hinged, thereby providing a compartment within said opening and between the bellows and said second mentioned edge, an electric meter member mounted in one end of said compartment and a light sensitive cell connected to said meter and mounted on said lens carrier for movement therewith, said cell being so positioned that it moves into the other end of said compartment when the lens carrier and its bellows are collapsed into said opening.

2,169,928
GAMBREL
Henry Saley, Blue River, Wis.
Application April 11, 1938, Serial No. 201,377
1 Claim. (Cl. 294—79)



A gambrel comprising a hanger ring, a pair of links loosely connected to said ring for spreading relation to each other, terminal eyes formed from said links at their ends remote to the ring and being turned downwardly, outwardly, upwardly and inwardly in the same plane with the longitudinal extent of said links, seating bights at the inner sides of the said links next to the terminal eyes, hooks loosely suspended from said terminal eyes and having out-turned bills, and a straight bar forming a spreader element and having notched ends releasably interfitting the seating bights when disposed between the said links for latching engagement therewith and holding the said links spread relative to each other.

2,169,929
FISHING LURE
William H. Schumann, Kent, Ohio, assignor to Fly Fish Kit Company, Kent, Ohio, a corporation of Ohio
Application January 9, 1939, Serial No. 250,015
11 Claims. (Cl. 43—48)



1. An artificial lure for use in fishing comprising a hook; a body of soft, deformable material, including a non-stretchable fabric layer permanently bonded thereto over a substantial surface area, mounted upon the shank of said hook; said hook having a portion of its shank surrounded by said material and having an end portion extending from said shank through said fabric layer to terminate externally of said body; and means to secure said body to said hook, said fabric layer resisting axial strains imparted to said body as a fish takes the lure or fights the lure after being hooked whereby stretching and harmful distortion of the body is obviated.

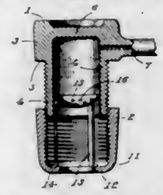
2,169,930
METHOD OF MAKING INLAID CELLULOSE PLASTIC BODIES
Charles Schuster, Fords, N. J., assignor to Nixon Nitration Works, Nixon, N. J., a corporation of New Jersey
Application November 24, 1936, Serial No. 112,616
6 Claims. (Cl. 41—35)



1. The process of producing a body of cellulose plastic material having a pattern formed by a plurality of elements on the surface thereof which comprises forming perforations in a tubular member, said perforations corresponding to the design to be imposed on said body, inserting said body within said tubular member, applying a solvent for said material to the areas of said body exposed through said perforations, applying said elements to said areas through said perforations, removing said tubular member from said body, and applying a transparent sheath to said body.

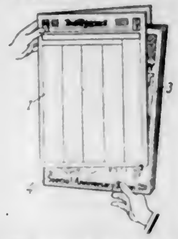
2,169,931
TOBACCO PIPE
William C. Schwem, Denham Springs, La.
Application July 11, 1938, Serial No. 218,689
2 Claims. (Cl. 131—193)

1. A tobacco pipe comprising a bowl including an upper section having a closed upper end, a threaded skirt for the upper section, a lower section detachable from and threaded on the skirt and having a flanged open lower end, tobacco supporting and tamping means including legs secured to and rising from the flange, a grate secured to the upper end of the legs and movable within the bore of the upper section for scraping



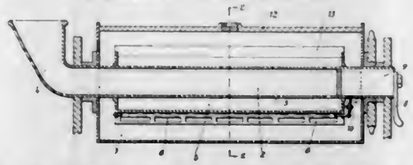
association therewith, a stem having a smoke passage communicating with the bore adjacent to the upper end thereof, and a mouth piece detachably secured to the stem.

2,169,932
NEWSPAPER ASSEMBLY
James E. Sweet, Theodore R. De Peugh, and Howard Parish, Washington, D. C.
Application March 29, 1937, Serial No. 133,724
5 Claims. (Cl. 283—1)



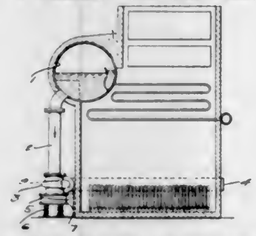
1. A newspaper comprising a plurality of folded sheets of substantially uniform size, and a folded sheet supplement within the folded sheets and of uniformly larger size than the first-mentioned sheets with a marginal extension projecting beyond a marginal edge of the first-mentioned sheets forming a hand hold for bodily removal of the supplement from the first-mentioned folded sheets, said marginal extension having indicia thereon for directing attention to the supplement.

2,169,933
DUPLICATING MACHINE
Felix Terrier and Marcel Adam, Paris, France
Application October 18, 1937, Serial No. 169,725
In France March 22, 1937
2 Claims. (Cl. 101—116)



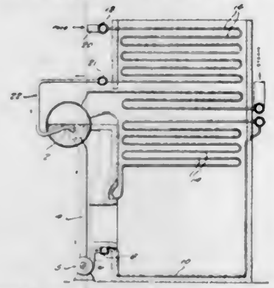
1. In a duplicating machine of the character described, a rotating block-holding cylinder having a segment portion of its peripheral wall perforated and the remainder imperforated, a stationary ink receiver in said cylinder, means to deliver ink from said receiver to the inner wall of said cylinder, and means to maintain during rotation a layer of ink of predetermined thickness over the inner surface of the perforated segment, said last named means comprising the construction of the inner wall of said imperforate segment of a radius as much less than that of the perforated segment as the desired thickness of ink to be maintained and the provision of a scraper to engage said inner wall of the imperforate segment and return the ink scraped therefrom to the receiver.

2,169,934
FORCED CIRCULATION VAPOR GENERATOR
Heinrich Vorkauf, Berlin, Germany, assignor to La Mont Corporation, New York, N. Y., a corporation of New York
Application February 14, 1939, Serial No. 256,333
In Germany July 1, 1936
2 Claims. (Cl. 122—411)



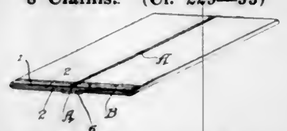
1. A forced circulation vapor generator comprising, in combination, a drum in which the liquid separated from the vapor is collected, a centrifugal circulating pump connected to the liquid storage space of the drum and arranged to turn about a vertical axis, said connection comprising an intake conduit so arranged that the entire flow of the liquid from the drum is downwardly directed to the center of the propelling mechanism of the pump and along the axis thereof, a pressure conduit from said pump running at substantially right angles to the direction of the intake conduit, said pump being suspended from the lower end of said intake conduit and through said conduit from the drum, and means for yieldingly counterbalancing at least a portion of the weight of said suspended pump.

2,169,935
FORCED CIRCULATION STEAM GENERATOR
Heinrich Vorkauf, Berlin, Germany, assignor to La Mont Corporation, New York, N. Y., a corporation of New York
Application February 14, 1939, Serial No. 256,334
In Germany October 20, 1936
7 Claims. (Cl. 122—411)



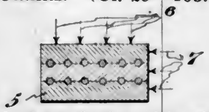
1. A forced circulation steam generator comprising, in combination, a drum in which the liquid separated from the vapor is collected, a circulating pump having an intake connection to said drum and means for introducing feed water into said drum in such manner as to provide for the escape of air and steam bubbles from said feed water before entering said intake but to prevent substantial heating of said feed water from contact with the steam and water of the drum.

2,169,936
BAG
Melvin Wagner, Philadelphia, Pa., assignor to Thomas M. Royal & Company, Philadelphia, Pa., a corporation of Pennsylvania
Application October 29, 1938, Serial No. 237,737
8 Claims. (Cl. 229—55)



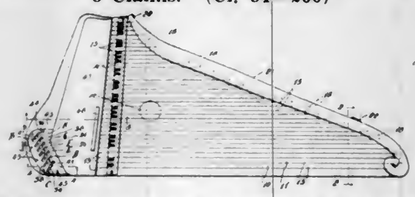
1. In a bag of the character described including a tubular body composed of flexible sheet material having an inner surface of thermoplastic material and arranged with its opposite edges in abutting relation longitudinally of said body, a longitudinal seam comprising the butting edges of said laminated structure, and a longitudinally extending strip of thermoplastic material interiorly lapping the adjacent edge portions of the inner thermoplastic surface of the sheet and intimately fused thereto.

2,169,937
METHOD OF PRODUCING PERFORATED METAL SHEETS
Bernhard Wempe, Berlin-Charlottenburg, Germany
Original application February 15, 1937, Serial No. 125,892. Divided and this application April 20, 1938, Serial No. 203,178. In Germany February 20, 1936
8 Claims. (Cl. 29—163.5)



1. A method of producing thin sheets of metal provided with uniform holes of small diameter, which comprises, superposing polished plates of metal with a layer of parallel wires of harder material between each two adjacent plates to form a block, applying pressure to the block until the wires have been forced into the surface of the metal plates and are in contact with the latter throughout their surface, removing some of the wires from each layer, applying pressure and heat to the block and thereby converting it by fusion into a homogeneous body, and cutting the homogeneous body thus formed into thin sheets.

2,169,938
HARP
Hans Wallen, San Jose, Calif.
Application September 30, 1937, Serial No. 166,654
5 Claims. (Cl. 84—266)



1. In a string adjusting means for a harp or

the like, a bar to which the strings at one end are fastened, means pivotally mounting the bar on the soundboard, spring means engaging and urging the bar to normal position, and means operable against the bar to vary its position counter to the urgency of said spring means.

2,169,939
SWIMMING GLOVE
Forest L. Anderson, Bristol, Tenn.
Application February 16, 1937, Serial No. 126,089
1 Claim. (Cl. 9—21)



A swimming glove comprising a hand fitting member including thumb and finger stalls and accordion webs secured to said stalls between the palm and back surfaces thereof, said accordion webs having preformed lines of fold facing alternately in opposite directions and lying wholly between the palm and back surface of the stalls when in closed position.

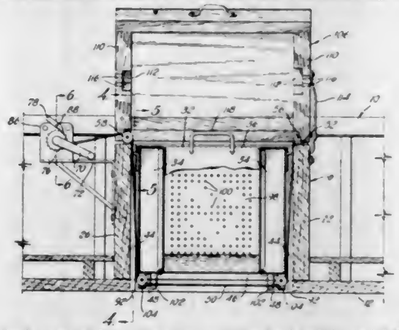
2,169,940
PIPE CLEANER
George A. Bonge, Hearne, Tex.
Application September 29, 1938, Serial No. 232,440
7 Claims. (Cl. 15—104.04)



2. A pipe cleaner comprising a pair of arcuate section blades, a pair of sleeves carried by each blade, a clamping bar, a pair of sleeves carried by said bar aligning with said first sleeves, a pair of bolts engaging through said sleeves, a spacing cam rotatably carried by said bar engageable with one of said blades to tension said blades about the pipe, an operating handle fixed to said cam, and means fixed to one of said blades for adjusting the angle thereof relative to the pipe.

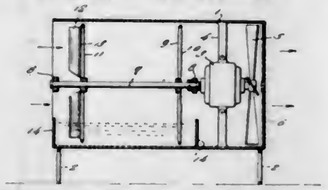
2,169,941
LIVE BAIT CONTAINER
Walter Campbell, Knox, Ind.
Application May 16, 1938, Serial No. 208,250
5 Claims. (Cl. 9—1)

1. In a boat including a bottom, a well associated with the bottom, a live bait container movable vertically inside the well and arranged to sink partly in the water underneath the boat bottom, a flexible means extending underneath the container and upwardly of the well between certain of its walls and the container for raising and lowering the latter, said walls being fashioned with channel means for housing the flexible means to prevent rubbing of the latter between the container and said walls, and manually con-



trolled operating means connected with said flexible means.

2,169,942
AIR CONDITIONER
Max Crandall and Marsh Sanders, Kingfisher, Okla.
Application February 18, 1938, Serial No. 191,325
1 Claim. (Cl. 261—92)



An air conditioner comprising a horizontally disposed cylindrical casing partially open at its inlet end and fully open at its exit end, a water chamber in the lower portion of the casing terminating short of the exit end thereof, cross bars secured within the casing transversely over the ends of the water chamber, a rotatable shaft mounted in the cross bars axially of the casing, open frames secured to the shaft adjacent its ends and extending into the water chamber, porous material carried by said open frames for taking up water from the water chamber during rotation thereof, radially disposed inclined blades secured to the inlet side of one of the frames adapted to extend into the water chamber and to be rotated by incursion of air into the casing, a motor in the casing beyond the water chamber and in axial alignment with the shaft, brackets supporting the motor from the casing, and a fan of approximately the interior diameter of the casing mounted on the outer end of the motor shaft with its blades extending beneath the level of the water within the water chamber when traversing the lower portion of the casing.

2,169,943
SPIRAL BINDER
Sumner W. Dow, Boston, Mass.
Application August 8, 1938, Serial No. 223,748
4 Claims. (Cl. 281—19)

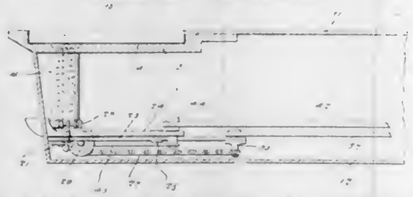
1. In a book backing and spiral binder, a backing comprising a pair of metallic plates and alternate fabric layer connected together, said metallic plates being arcuate in cross-section with the inner metallic plate exposed, the spiral binder including a wire coil carrying a book of leaves, top and bottom covers carried by the backing and separate means carried by the exposed plate for

securing the spiral binder to the backing and prevent longitudinal movements of the spiral binder relative to the backing, said means including end fingers struck-up from the exposed plate and directed towards each other for de-



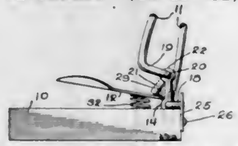
tachable engagement with the adjacent end convolutions of the spiral binder, and groups of V-shaped ribs struck-up from the exposed plate inwardly of said fingers with the ribs of each group respectively positioned between adjacent convolutions of the spiral coil.

2,169,944
DOOR LOCK
John R. Elliott and Charles C. Hudson, Atlanta, Ga.
Application April 12, 1934, Serial No. 720,335
12 Claims. (Cl. 70—208)



1. A lock for doors and the like comprising a slidably mounted bolt, inner and outer telescopic members nonrotatively connected together, interengaging means on one of said members and the bolt for retracting the latter, an operating handle provided on the free end of the other of said telescopic members, a handle pivotally mounted at the inner side of the door, means for extending said telescopic members, and flexible means connecting said other of the telescopic members and the second named handle for telescoping said members.

2,169,945
TRAP
Frederick M. Eslick, Pass Christian, Miss.
Application August 1, 1938, Serial No. 222,516
11 Claims. (Cl. 43—81)



1. A trap comprising a base, a striker bow having opposed end portions, bearings on the base having axes relatively offset from one another for receiving the opposed end portions, and a trigger for releasably holding said bow in the upper trapping position.

2,169,946
SCRAPER
Herman C. Frentzel, Jr., and Henry C. French, Milwaukee, Wis., assignors to The Heil Co., Milwaukee, Wis., a corporation of Wisconsin
Application June 25, 1937, Serial No. 150,232
19 Claims. (Cl. 37—126)

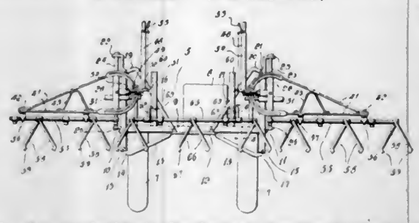


2. In a scraper, a transportable frame, a bowl suspended from said frame and having side walls interconnected by a bottom to provide an open ended trough shaped assemblage, a rear apron movable with varying angularity within said bowl, supporting rollers for said apron coacting with said bowl bottom, and a scraper flap pivotally suspended from said apron and constantly engaging said bottom in advance of said rollers.

2,169,947
ABSORBENT WADDING, PARTICULARLY FOR SURGICAL PURPOSES
Hans Freudenberg, Weinheim, Germany, assignor to Carl Freudenberg G. m. b. H., Weinheim, Baden, Germany
No Drawing. Application May 15, 1936, Serial No. 80,019. In Germany May 20, 1935
1 Claim. (Cl. 128—156)

Wadding consisting of absorbent collagenous fibres substantially free from water, which fibres are produced by converting animal hide material into a swollen condition in which the fibres contained therein may be mechanically isolated, shredding the swollen material while preserving the fibres, treating the resulting coarse fibrous material with organic liquids miscible with water and finely shredding the material so produced.

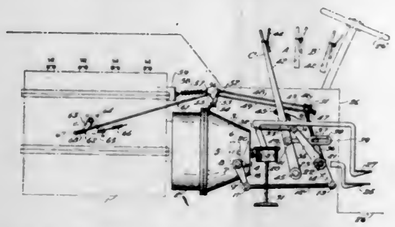
2,169,948
AMBULANT SPRAYING MACHINE
Charles A. Gallupe, Mars Hill, Maine
Application September 18, 1937, Serial No. 164,586
2 Claims. (Cl. 299—29)



1. An ambulant discharge device including a wheeled frame having a platform, each side of the platform carrying a vertical spindle, a block rotatably mounted on the spindle, a spray pipe support pivoted at one end on a horizontal axis on said block whereby the outer end thereof may swing vertically and independent manually operable means respectively engaged with said support and block for selectively vertically swinging

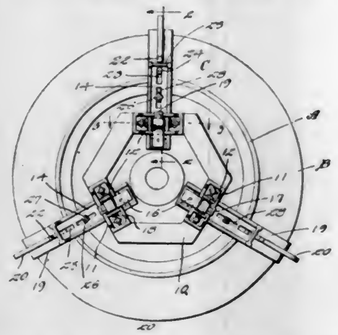
said support and moving said support in a horizontal plane towards and away from the wheeled frame.

2,169,949
DRIVING AND CONTROL APPARATUS
William E. Haupt, Westville, N. J., assignor to Automatic Drive and Transmission Company, Gloucester City, N. J., a corporation of New Jersey
Application January 21, 1932, Serial No. 588,024
4 Claims. (Cl. 192—.01)



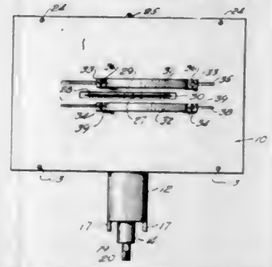
1. In a delivery vehicle of the kind that includes an automatic clutch released when the engine reaches idling speeds and passageway extending across the body; vehicle control elements accessible from said passageway comprising a clutch controlling foot pedal, a brake controlling foot pedal, a fuel controlling foot pedal and a brake controlling hand lever; and fuel controlling connections actuated by each of said foot pedals and said hand lever and operative to feed fuel to the vehicle engine only when said brake and clutch controlling pedals are in released position.

2,169,950
ANTISKID DEVICE FOR VEHICLE WHEELS
Toivo Hamalainen, Finlayson, Minn.
Application October 24, 1938, Serial No. 236,746
1 Claim. (Cl. 152—228)



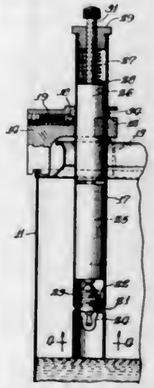
A device of the character described comprising a central member, arms slidably fitted with and extending radially from said member, means for latching the arms in adjusted positions, tread-engaging hook members adjustably connected with said arms, guides carried by the said central member and having the arms slidably fitted therein, means associated with said guides for latching engagement with said arms, rack teeth formed in said arms and selectively engageable by said last-named means, teeth formed on the hook members, and lips on said arms for selectively engaging the teeth on the hook members.

2,169,951
CHICKEN SPLITTER
Joseph J. Hannan, Chicago, Ill.
Application September 16, 1938, Serial No. 230,305
3 Claims. (Cl. 146—95)



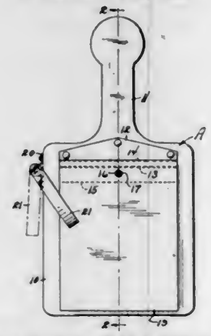
1. A device as set forth comprising a table member, a pair of downwardly extending spaced apart plates carried by said member, a boss carried by one of said plates, a shaft journalled through said boss and the other of said plates, means carried by said shaft and engaging on opposite sides of said other plate to hold said shaft against endwise movement, said table having an elongated slot therethrough and a pair of elongated slots one on each side of said first slot, a disc-shaped blade fixed on said shaft and having a portion thereof projecting through said slot, a pair of guard members carried by said table on opposite sides of said blade, means engaging through said pair of slots adjustably securing said guard on said table, and means carried by said boss engageable with a supporting means for supporting said table in horizontal position while simultaneously coupling said shaft to a driving means.

2,169,952
PROPORTIONAL MIXING SCALE
Edward D. Holmes, Chicago, Ill., assignor to Sherwin-Williams Company, Cleveland, Ohio, a corporation of Ohio
Application February 28, 1938, Serial No. 193,000
3 Claims. (Cl. 33—126.7)



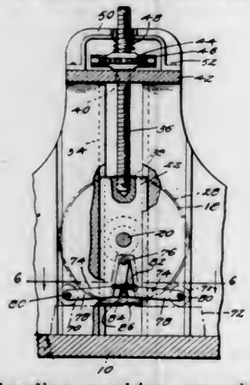
1. A device for determining the height of the surface of a liquid in a container of known capacity, comprising a support adapted to be positioned in fixed relation to an open top container, a light transmitting element mounted on said support for vertical adjustment relatively thereto and projecting downwardly into the container, the lower end of said element terminating in a single plane parallel with the surface of the liquid in the container, a concealed source of light located entirely above said plane and so positioned that the light rays therefrom are emitted from said element only at the lower end thereof and only in a downward direction, and means operated by vertical adjustment of said element for indicating the height of said lower end above the bottom of the container.

2,169,953
FILING DEVICE
Harry Irwin Jeffers, Montgomery, Ala.
Application September 16, 1938, Serial No. 230,313
1 Claim. (Cl. 129—5)



A swinging device of the kind described comprising a racking means having a hanger, a filing clip releasably engaged with the hanger and having a tubular stud, a paper fastening clip passed through the stud for separately fastening documents swingingly upon the latter, a spring coactive with the documents for holding the same orderly when carried by the clip, and means swingingly connecting the spring with the racking means.

2,169,954
SANDER
John Howard King, Mansfield, Ohio
Application September 20, 1938, Serial No. 231,351
3 Claims. (Cl. 51—102)

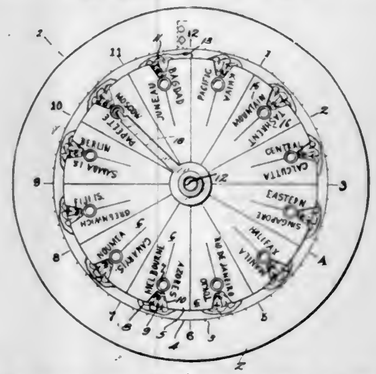


1. An abrading machine comprising a work table, side members, bearing blocks slidably related to the side members, a sanding drum rotatably journaled in the bearing blocks, a screw fixed to each bearing block, sprockets having threaded relation with the screws, an operating chain passing about said sprockets for rotating the screws, to adjust the sanding drum toward and away from the work table, a pair of work pressure rolls, a bell crank support for each end of each of the work pressure rolls pivotally connected with one of said bearing blocks, spring means interconnecting the two bell crank supports at the ends of the work pressure rolls for urging the latter downwardly on the work, and means for limiting the downward pressure movement of the work pressure rolls.

2,169,955
TREATMENT OF CASEIN FIBERS
Theodoor Koch, Oosterbeek, and Henricus Anthonius van der Kroon, Arnhem, Netherlands, assignors to American Enka Corporation, Enka, N. C., a firm
No Drawing. Application April 22, 1938, Serial No. 203,700. In Germany May 11, 1937
7 Claims. (Cl. 18—54)

1. In a process for rendering casein fibers resistant to shrinkage and sticking in hot acid dye baths wherein the fibers have been initially coagulated in an acid precipitating bath, the step which comprises subjecting the fibers to treatment with nitrous acid.

2,169,956
WORLD TIME INDICATING DEVICE
Howard A. Leatart, Trona, Calif.
Application May 17, 1937, Serial No. 143,146
13 Claims. (Cl. 58—43)



13. A world time clock including a part indexed into twelve hour divisions, a relatively movable part provided with time zone place names in time zone order and all concurrently registerable with the twelve hour divisions to show the time at all of the places named, and means to show both the week day and the meridian phase at all of the places at any period; the hour, day and phase being observable at a glance without calculation.

2,169,957
MODE OF TREATING TEA AND COFFEE AND PRODUCT THEREOF
Clarence G. Lehr, Baltimore, Md.
No Drawing. Application May 23, 1938, Serial No. 209,622
3 Claims. (Cl. 99—77)

1. A mode of treatment of tea, coffee and similar materials to be used in making beverages, which comprises reducing said material to a finely divided condition and well incorporating

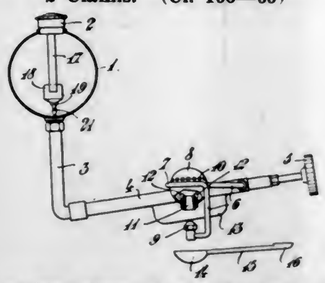
therewith, freshly precipitated ferric hydroxide containing some water, and thereafter drying said mixture at a low temperature.

2,169,958

SPIRIT AND LIKE COOKING STOVE

Johan Gunnar Lindmark, Stockholm, Sweden

Application July 16, 1937, Serial No. 153,961
In Sweden December 18, 1935
2 Claims. (Cl. 158—55)



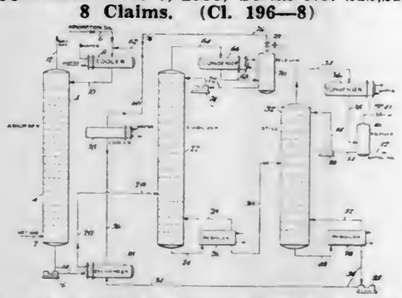
1. A cooking stove of the character described comprising a valve-controlled substantially horizontal vaporizing pipe, a receptacle arranged in an elevated position relative to said pipe for feeding liquid fuel thereto, a pipe coil arranged in a lateral position relative to said vaporizing pipe and connected to the latter for receiving vapour therefrom, a hollow, internally smooth spherical burner head formed in one piece, snugly embraced and carried by said coil around the centre of said head which is provided with two series of burner holes, one of said series consisting of a small number of holes located below the pipe coil for preheating said coil, and the other series consisting of a larger number of holes above the pipe coil for producing the main burner flame, an adjustable collar inserted in the lower part of said burner head, and a jet nozzle fitted at the free end of the pipe coil and carried thereby vertically beneath said collar.

2,169,959

RECOVERY OF GASOLINE HYDROCARBONS

David G. Brandt, Westfield, N. J., assignor to Power Patents Company, Hillside, N. J., a corporation of Maine

Application June 7, 1938, Serial No. 212,219
8 Claims. (Cl. 196—8)



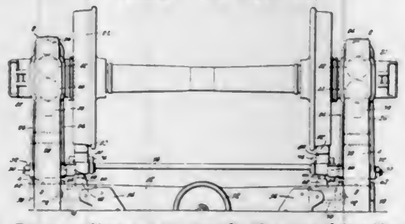
1. In a process for recovering valuable hydrocarbons from gases containing such hydrocarbons in which the gases are passed through an absorption tower in intimate countercurrent contact with an absorption medium, the improvement which comprises passing the resulting rich absorption medium containing the desired hydrocarbons and some lower boiling undesired hydrocarbons from the absorption tower into a stabilizer, removing all of the undesired low boiling hydrocarbons from the upper part of the stabilizer in vapor form and subjecting them to the absorbing action of an absorption oil while passing the removed hydrocarbon vapors and oil in contact through a cooling zone, and thereafter introducing the resulting cooled mixture of absorption oil and absorbed lower boiling hydrocarbons into the said absorption tower as the absorption medium for recovering the desired hydrocarbons from the gases introduced thereinto.

2,169,960

BRAKE

Robert B. Cottrell, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey

Application October 10, 1936, Serial No. 105,067
9 Claims. (Cl. 188—53)



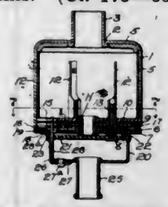
1. In a railway car truck the combination of a truck frame comprising side members, a load carrying member connecting said side members and supported directly thereon, a plurality of power means supported at the opposite ends of said load carrying member, wheel and axle assemblies, pairs of hanger levers hung from the opposite ends of said load carrying member and pivotally supporting brake heads intermediate their ends for cooperation with the adjacent wheels, direct pivotal connections between the lower ends of said hanger levers and pistons associated with the opposite ends of the adjacent power means, and tie rods connecting the brake heads at opposite sides of the truck at their before-mentioned pivotal points of support.

2,169,961

SHIELDED PLUG AND SOCKET MEMBER

Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application October 31, 1936, Serial No. 108,613
4 Claims. (Cl. 173—332)



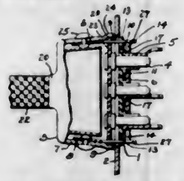
4. A plug member for an electrical connection including a metal cup having an open end and another opening through which at least one conduit may be entered into said cup, an insulating plate secured to the open end of said cup, a plurality of contact terminals carried by said insulating plate and a plurality of L-shaped fastener members normally insulated from said contact terminals, said fastener members having one end secured to the bottom of said cup and the free end extending through said insulating plate to a position beyond the same, said free end having yieldable fastener means adapted to enter and engage the material surrounding the aperture of a metal plate, which plate is in electrical engagement with the shield cup of another member of said plug and socket connection.

2,169,962

ELECTRICAL CONNECTION

Scipione M. Del Camp, Maywood, Ill., assignor to Cinch Manufacturing Corporation, Chicago, Ill., a corporation of Illinois

Application November 30, 1937, Serial No. 177,246
3 Claims. (Cl. 173—332)



1. An electrical device comprising, in combination, plug and socket members and a metal supporting panel having a large opening and a smaller opening on one side thereof, said socket member being secured to said panel and having insulating plates carrying socket contact terminals intersecting said large opening, said plug member being disposed on the other side of said supporting panel from said socket member, said plug member having a hollow metal shield, a plurality of stud contact terminals extending beyond said shield into cooperative fastening engagement with said socket terminals and a yieldable conducting member secured to said shield, said conducting member being engaged and disengaged with said panel by direct axial movement thereof through said small opening whereby said shield and said panel are electrically connected and disconnected.

2,169,963

GREEN CORN CUTTING MACHINE

Charles E. Kerr, Hoopeston, Ill., assignor to Food Machinery Corporation, San Jose, Calif., a corporation of Delaware

Application September 16, 1935, Serial No. 40,815
2 Claims. (Cl. 130—9)



1. A knife for cutting substantially whole kernels of green corn from the cob, comprising a shank having a knife blade projecting angularly therefrom, said blade being provided with a cutting edge, and a substantially knob-like protuberance on the underside of said blade disposed entirely between said cutting edge and said shank for engagement with the cob to gauge the depth of cut of said knife as the latter severs the kernels therefrom.

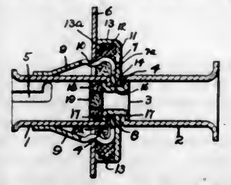
2,169,964

LAMP SOCKET DEVICE

Howard J. Murphy, Greenwood, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts

Application October 30, 1937, Serial No. 172,002
4 Claims. (Cl. 173—339)

3. In combination with an apertured supporting structure, an electrical socket device secured to said structure, one end of said socket device extending through said aperture, the diameter of that portion of said device extending through said aperture being less than the diameter of said aperture whereby an opening remains between said device and an edge of said aperture, said socket device having means at one end for receiving a lamp and the like, a shielding means having a piece of packing material encircling said socket device and an attaching member carried by said socket having yieldable fingers disposed outside said socket device and extending through said packing material, said yieldable fingers having shoulder means in engagement with the material of said supporting structure adjacent the aperture therein whereby said socket device is detachably secured to said supporting structure, and said packing material overlying the opening between said device and the edge of said aperture so as to prevent passage of foreign matter through said opening.

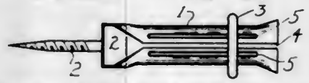


2,169,965

TREE BRANCH AND STICK HOLDER

Philip J. Niedermaier, Newark, N. J., assignor of one-half to Frank V. Galgano, Newark, N. J.

Application October 4, 1937, Serial No. 167,205
3 Claims. (Cl. 248—42)



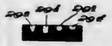
3. A holder comprising a coach screw and an expansible longitudinally split tubular body open at one end and adapted by cooperating angular portions to confine at its other end the head of said coach screw, a plurality of projections inward of the internal surface of such body projecting progressively further from such surface from the base to the open end, and a ring encircling said body with limited movement along its length.

2,169,966

SMALL SHAPED METALLIC OBJECT

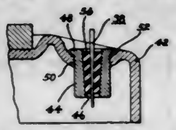
Carl Pfanstiehl, Highland Park, Ill., assignor to Pfanstiehl Chemical Company, a corporation of Illinois

Application November 28, 1938, Serial No. 242,865
1 Claim. (Cl. 29—148)



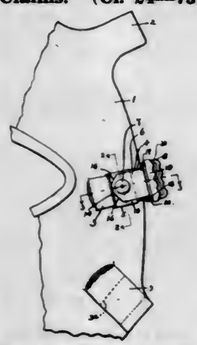
A metallic tip for small bases comprising a small preformed body of predetermined shape, the body being not substantially more than $\frac{1}{4000}$ of a cubic inch in volume and having all of its dimensions less than $\frac{1}{8}$ inch, having the uniformity of structure and strength resulting from compression of finely divided metallic particles under heavy pressure in a cavity in a substantially incompressible plastic body having all of its dimensions less than $\frac{1}{8}$ inch, to a coherent mass of the predetermined shape but materially smaller in volume than the cavity.

2,169,967
ELECTRICAL LEAD-IN BUSHING
Rolf M. Smith, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Ohio
Application September 27, 1935, Serial No. 42,446
2 Claims. (Cl. 174—152)



1. A gas tight electrical lead-in comprising a receptacle having a tapered aperture therethrough, a tapered bushing shorter in length than said tapered aperture and molded of a hard non-crystalline slightly plastic electrical insulating material fitting tightly within and in direct contact with the tapered aperture of said receptacle, said tapered bushing having a tapered aperture extending therethrough having a lesser included angle than the outside of the tapered bushing, and a tapered electrical conductor extending through and tightly fitting the tapered bushing to form a gas tight insulating seal for the electrical conductor.

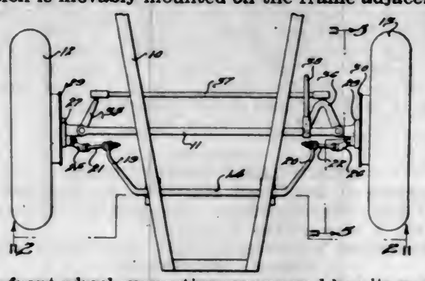
2,169,968
FASTENING INSTALLATION
Clifford Towner, Winchester, Mass., assignor to United-Carr Fastener Corporation, Cambridge, Mass., a corporation of Massachusetts
Application August 6, 1937, Serial No. 157,733
2 Claims. (Cl. 24—73)



1. A fastener device including a clamping member having spaced upper and lower walls which are adapted to embrace opposite sides of a portion of an article of manufacture for securing said fastener device thereto, said upper wall having a stop means extending out of the normal plane thereof, an attaching plate pivotally secured to said upper wall, said attaching plate having means adapted to abut said stop means in relative positions of said parts for limiting pivotal movement of said plate, and a buckle carried by said plate.

2,169,969
STABILIZER MECHANISM
William D. Allison, Detroit, Mich., assignor to Hudson Motor Car Company, Detroit, Mich., a corporation of Michigan
Application August 4, 1938, Serial No. 223,061
22 Claims. (Cl. 267—11)

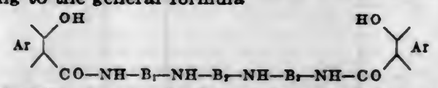
1. In a front wheel suspension for a motor vehicle a stabilizer comprising a transverse bar which is movably mounted on the frame adjacent



the front wheel supporting means and has its ends operatively connected with stationary portions on the front wheels.

2,169,970
DISAZO DYESTUFFS
Wolfgang Alt and Hans Krzikalla, Ludwigshafen-on-the-Rhine, Germany, assignors to General Aniline Works, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application October 20, 1938, Serial No. 236,034. In Germany November 19, 1937
5 Claims. (Cl. 260—184)

1. A process of producing disazo dyestuffs which comprises coupling diazo compounds of aromatic amines with orthohydroxy-aryl carboxylic arylides containing in the arylide portion at least one sulfonic acid group and corresponding to the general formula



wherein Ar stands for arylene radicles, and wherein B_1, B_2 and B_3 stand for phenylene radicles.

2,169,971
SULPHONIC ACID AMIDE COMPOUNDS
Robert Behnisch, Josef Klarer, and Fritz Mietzsch, Wuppertal-Elberfeld, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application April 15, 1937, Serial No. 137,022. In Germany April 18, 1936
9 Claims. (Cl. 260—401)

1. The compounds of the general formula: R—NH—acyl, wherein R stands for a cyclic radical selected from the group consisting of para-SO_2NH_2 and di-SO_2NH_2 substituted radicals of the benzene series and of the corresponding radicals which are substituted at the nitrogen atom of the sulphonamide group by unsubstituted alkyl, (4- to 5-membered)-alkylene, mononuclear arylalkyl and mononuclear cycloalkyl radicals, and acyl stands for an acyl radical of at least 5 carbon atoms selected from the group consisting of the radicals of saturated and unsaturated fatty acids and aryl substituted fatty acids.

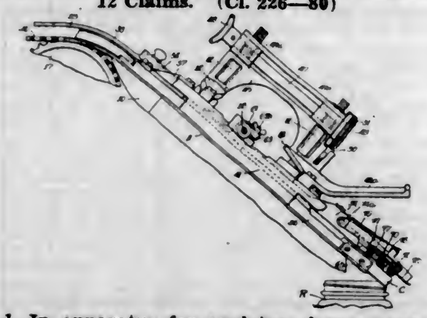
2,169,972
FURNACE
Perry R. Cassidy, Short Hills, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application June 4, 1936, Serial No. 83,444
15 Claims. (Cl. 122—330)

1. In combination with a steam boiler, a furnace wall including spaced tubes exposed externally to high temperatures and carrying a fluid to be heated, said tubes being of small diameter compared to their lengths and of small wall thickness compared to their diameter, a plurality of heat conducting extension members in the form of transverse plates welded to the sides of the tubes at spaced positions and adapted to



transmit heat to the tubes and hence to the liquid within, a plurality of said plates being aligned transversely of each tube axis at each of a multiplicity of spaced positions on the sides of the tubes presented toward the interior of the furnace, and a substantially monolithic body of refractory material installed as a plastic between the tubes and their extensions to form the furnace face.

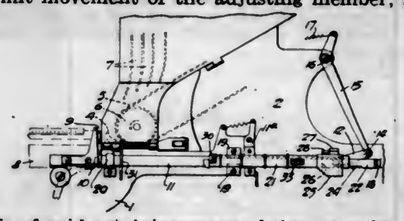
2,169,973
APPARATUS FOR FEEDING AND APPLYING CLOSURE CAPS
Lynn E. Davies, Park Ridge, Ill., assignor to White Cap Company, Chicago, Ill., a corporation of Delaware
Application July 18, 1938, Serial No. 219,717
12 Claims. (Cl. 226—80)



1. In apparatus for applying closure caps to packing vessels, in combination, a runway along which the caps may slide, guide members movably associated with opposite sides of the runway and extending longitudinally thereof to guide the caps in their course, and means operable to adjust said guide members simultaneously both laterally and longitudinally in approximately parallel relationship.

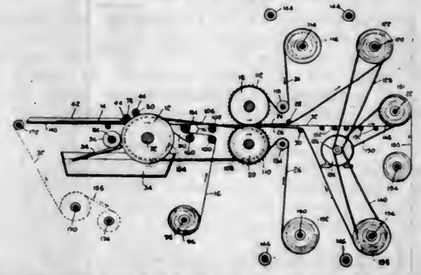
2,169,974
ASSEMBLER SLIDE FOR TYPOGRAPHICAL MACHINES
Herman R. Freund, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York
Application October 1, 1938, Serial No. 232,867
9 Claims. (Cl. 199—30)

1. In a typographical machine having a matrix assembler slide provided with a movable adjusting member to set the slide for matrix lines of different lengths, means for retaining said member at positions of adjustment in accordance with em and one-half em line measures, and means for retaining said member at positions of adjustment in accordance with measures intermediate of the em and one-half em measures, both of said retaining means being releasable by a single actuating movement to permit movement of the adjusting member, and



each of said retaining means being operable independently upon movement of the adjusting member to line measure positions corresponding thereto.

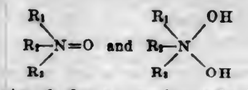
2,169,975
LAMINATING APPARATUS
Leon Gold, Brooklyn, N. Y., assignor of one-half to Moses Krivis, Brooklyn, N. Y.
Application January 8, 1936, Serial No. 58,060
8 Claims. (Cl. 154—36)



1. Laminating apparatus comprising a table for sheet material feed, a cement applying roll for the sheet material, a cement bath, a doctor roll, feed rollers, means to positively drive said cement roll, doctor roll, and feed rollers, stripper fingers at the cement roll, a supply drum for a web of transparent non-fibrous cellulosic material such as cellulose ester or regenerated cellulose, and means to feed a continuous web of material from the supply drum to a point immediately adjacent the stripper fingers and then away from the stripper fingers, whereby sheet material fed to the cement roll is directly thereafter superimposed on the continuous web of material.

2,169,976
PROCESS OF PRODUCING ASSISTANTS IN THE TEXTILE AND RELATED INDUSTRIES
Fritz Guenther and Karl Saftien, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application January 17, 1935, Serial No. 2,224. In Germany January 26, 1934
15 Claims. (Cl. 260—561)

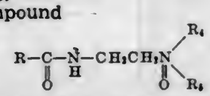
3. Assistants in the textile and related industries essentially comprising nitrogeneous compounds containing oxygen directly attached to nitrogen selected from the class consisting of compounds corresponding to the general formulae:



wherein R_1 stands for a member selected from the

group consisting of hydrogen and aliphatic and aromatic radicals, R_2 and R_3 stand for radicals selected from the group consisting of aliphatic and aromatic radicals, at least one of said radicals containing an aliphatic chain of at least 8 carbon atoms.

6. The compound



wherein R is an alkyl straight chain radical of more than 7 carbon atoms and R_4 and R_5 are lower alkyl straight-chain radicals.

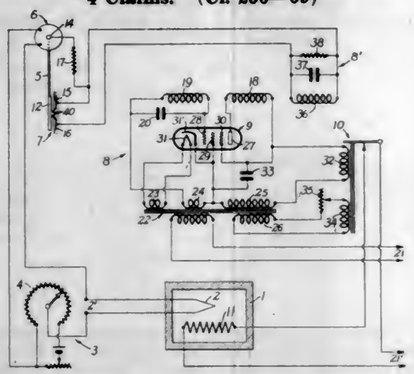
2,169,977

CONTROL APPARATUS

Waldron Shapleigh Macdonald, Foxboro, Mass., assignor to The Foxboro Company, Foxboro, Mass., a corporation of Massachusetts

Application March 22, 1937, Serial No. 132,453

4 Claims. (Cl. 236—69)



1. In apparatus for controlling the value of a condition of the type having a condition sensitive means, a member adapted to be moved in a path by said condition sensitive means, a condenser whose capacity varies in response to movement of said member, and electrical means responsive to variations in the capacity of said condenser for exerting control efforts responsive to changes of said condition, said condenser comprising a first condenser plate mounted on said movable member in a plane approximately perpendicular to the path of motion of said member, and second and third condenser plates mounted in a plane parallel to the plane of said first plate and in capacitive relation therewith whereby movement of said first condenser plate relative to said second and third condenser plates alters the electrical capacity between said second and third condenser plates.

2,169,978

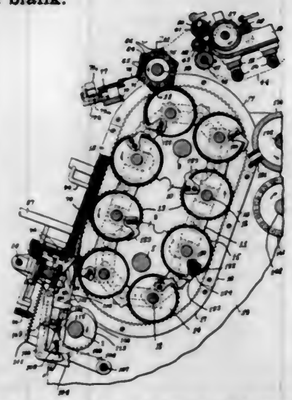
MACHINE FOR AND METHOD OF APPLYING TRANSPARENT WINDOWS TO ENVELOPE BLANKS

Lewis C. Pearce, Cleveland, Ohio, assignor, by mesne assignments, to William C. Labombarde, Nashua, N. H.

Application August 9, 1937, Serial No. 158,084

24 Claims. (Cl. 93—61)

1. The method of applying a transparent window to an apertured envelope blank consisting in applying wet adhesive to predetermined narrow areas of a web of transparent material through which the cutting of the window blank from the web takes place, then cutting through the web and adhesive while the latter is moist to sever the window from the web in such manner that the moist adhesive extends to the edge of the window and then applying the severed window while the adhesive is moist around the aperture in the envelope blank thereby causing the window to be glued along its very edge to the envelope blank.



15. A machine for applying transparent windows to apertured envelope blanks comprising means for feeding a strip of transparent material, means for successively applying adhesive to predetermined areas of said strip corresponding to marginal areas of adjacent windows, an intermittently rotatable window-positioning member having pneumatically operable means to engage the window area of said strip having the moist adhesive applied thereto, and provided with longitudinal slots corresponding to the width of the window, means for severing a window pane from said strip lengthwise through the adhesive-coated area while attached to said positioning member comprising an endless chain having a cutting blade, and means for intermittently actuating said chain to cause said blade to pass successively through said slots, and means for successively presenting the apertured envelopes to said window-applying means to cause the window to be applied over the aperture thereof.

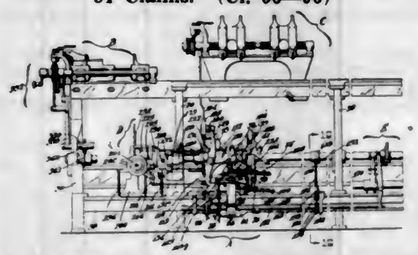
2,169,979

STRAIGHT KNITTING MACHINE

Max Richter, West Reading, and Clarence L. Hornberger, Ephrata, Pa., assignors to Textile Machine Works, Wyomissing, Pa., a corporation of Pennsylvania

Application December 11, 1936, Serial No. 115,290

54 Claims. (Cl. 66—96)



1. A knitting machine comprising a pattern device, mechanism for imparting an operating movement to the device, holdout means for holding the mechanism out of operation, means for shifting the holdout means through successive stages while in effective position and thereafter into ineffective position, and means for determining the number of said stage movements including means automatically varying the length of time said holdout means is in operation at different points in knitting a given piece of fabric.

18. A knitting machine including a rotary pattern device, means for imparting to the device a translatory movement in stages, means operatively engaged by the pattern device during a stage of movement, and means operatively engaged by the device during a successive movement.

2,169,980

CEMENT MIX

Edward W. Scripture, Jr., Shaker Heights, Ohio, assignor to The Master Builders Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Original application November 6, 1934, Serial No. 751,747. Divided and this application January 9, 1939, Serial No. 249,883

8 Claims. (Cl. 106—27)

1. A mortar or cement mix containing the ingredients of waste sulphite liquor in substantially the proportion provided by the addition to the mix of from one-half pint to one and one-half pints of waste sulphite liquor per sack of cement.

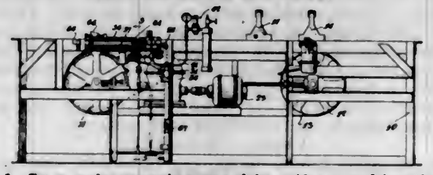
2,169,981

APPARATUS FOR APPLYING PRESSURE TO SHOE SOLES

John Frederick Smith, Quincy, Mass., assignor to Compo Shoe Machinery Corporation, New York, N. Y., a corporation of Delaware

Application August 14, 1935, Serial No. 36,053

24 Claims. (Cl. 12—36)



1. In a sole pressing machine, the combination comprising a movable carrier, a plurality of sole presses mounted on said carrier and each having an inflatable pad and means for holding a shoe thereon, means for moving said carrier step by step, an air inlet on each press, an inflating device mounted near said carrier for movement therewith, means for alining said device with the air inlet of a press positioned at a station along said carrier, means for moving said device toward and into inflating relation with an alined inlet, and means for holding said device and inlet coupled during one step of carrier movement.

2,169,982

DEVICE FOR AUTOMATICALLY CONTROLLING THE FORE AND AFT INCLINATION OF AIRCRAFT

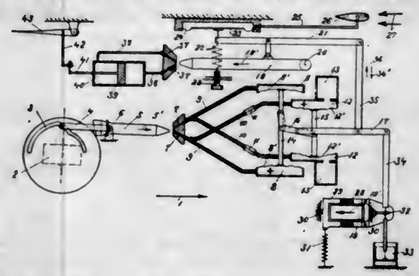
Gert Zoege von Manteuffel, Berlin-Dahlem, Germany, assignor to Askania-Werke A. G., a corporation of Germany

Application January 26, 1939, Serial No. 252,961

In Germany August 17, 1937

14 Claims. (Cl. 244—78)

1. Apparatus for automatically controlling the fore and aft inclination of an aircraft, comprising a device responsive to the speed of the craft, means for varying the position of the elevator under the influence of said speed responsive device, and a device responsive to changes in the fore and aft inclination of the aircraft for additional control of said means for varying the elevator position, said inclination-responsive device including primary means for providing a primary actuation and means adapted to act with a time delay relative to said primary means for counteracting the effect of the latter.



2,169,983

PROCESS OF PRODUCING DRY MAGNESIUM HYDROXIDE AND PRODUCTS THEREOF

Bruce Walton, Glenbrook, Conn., assignor to Chas. H. Phillips Chemical Co., New York, N. Y., a corporation of Connecticut

No Drawing. Application February 18, 1938, Serial No. 191,225

5 Claims. (Cl. 23—201)

1. A method of preparing a dried magnesium hydroxide which comprises removing the water from an aqueous suspension of magnesium hydroxide, sugar and magnesium citrate by evaporation and drying.

5. A dry composition comprising finely divided magnesium hydroxide, sugar, magnesium citrate and sodium citrate, said magnesium hydroxide being capable of forming a stable suspension on being mixed with water.

2,169,984

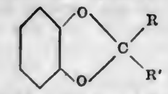
PERFUME

Albert Weissenborn, Dessau-in-Anhalt, Germany, assignor to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York

No Drawing. Application June 1, 1938, Serial No. 211,204. In Germany June 15, 1937

4 Claims. (Cl. 167—94)

1. Perfumes containing as a constituent a ketal of pyrocatechol of the general formula



wherein R and R' mean aliphatic radicals and wherein the ketonic radical



contains at least 6 but not more than 9 carbon atoms.

2,169,985

HARDWARE

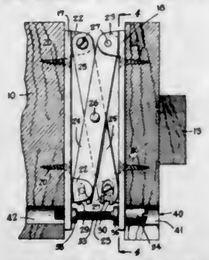
Paul Hiza, Fairfield, Conn.

Application April 12, 1938, Serial No. 201,477

5 Claims. (Cl. 20—12)

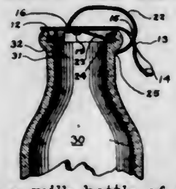
1. In an adjustable jamb, the combination of a fixed stud a movable jamb; means for interconnecting the stud and jamb comprising a pair of plates, one to be secured to the stud and the

other to the shiftable jamb member and a pair of links pivoted midway the ends thereof and having the opposite ends of the links connected to the plates to form a lazy tong and support the plates in spaced parallel relation, the ends of the



links adjacent one end of the plates being slotted and shaped to permit separation of the plates; and means interlocked with one plate and threaded into the other plate for moving said plates toward one another.

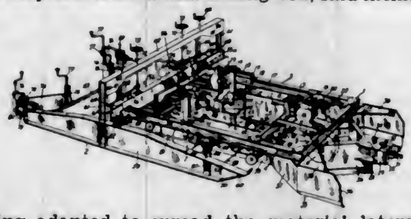
2,169,986
BOTTLE COVER
Herman Louis Keun, Atwater, Ohio
Application September 2, 1938, Serial No. 228,155
1 Claim. (Cl. 215—63)



A cover for a milk bottle of the type having an internal circumferential shoulder and an external circumferential groove, comprising in combination, a cover member having a slot therein, a thumb lever having an opening therethrough, the said thumb lever being integral with the said cover member, a substantially curved spring member having a straight end and a curved end, and tabs on the bottom of the cover member for retaining the spring member in fixed relation thereto and in a manner whereby the said spring member projects upward through the said slot in the cover member, and downward through the opening in the thumb lever thereby causing the straight end of the spring member to engage the bottle shoulder and the curved end to engage the said bottle groove.

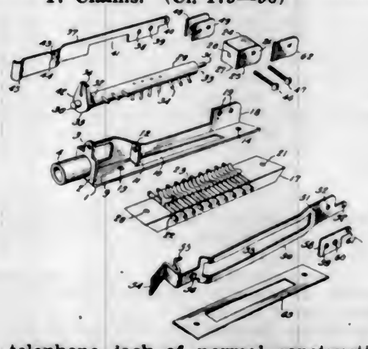
2,169,987
METHOD AND APPARATUS FOR BUILDING ROADS
Joseph H. Mosel, Columbus, Ohio, assignor to The Jaeger Machine Company, Columbus, Ohio, a corporation of Ohio
Application April 13, 1936, Serial No. 74,059
23 Claims. (Cl. 94—46)

1. A road building machine for operating upon material previously applied to the surface to be treated comprising a mixing and spreading unit, a finishing and molding unit, means for connecting both of said units together in such a manner as to permit them to float relative to each other but to prevent relative lateral movement of said units, said mixing and spreading unit comprising plow blades arranged at the forward end of said unit, a transporting wheel for said mixing and spreading unit disposed behind said plow blades so that said blades will clear a path through the material for the wheel, gathering wings disposed at the forward end of said mixing and spreading unit and being laterally spaced from said plow blades, said gathering wings extending rearwardly and inwardly, a mixing box supported on said mixing and spreading unit, said gathering wings being adapted to direct the material into said mixing box, said mixing box being of substantially less width than the width of the layer of material produced by the machine, a plurality of rotatable mixing members disposed in said mixing box, a baffle member at the rear of said mixing box for controlling passage of material therethrough, a rudder member disposed at the rear of the mixing box for controlling the amount of material fed to each side of the surface to be covered, a rotatable mixing and spreading member disposed behind said mixing box, said member



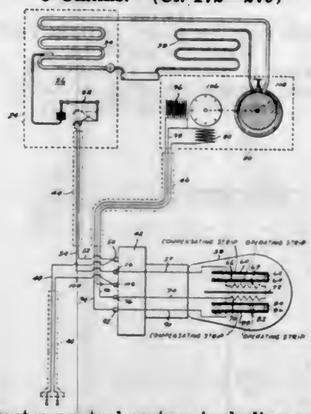
being adapted to spread the material laterally substantially across the surface to be covered, the rear end of said mixing and spreading unit being supported by wheels which operate along paths cleared by said gathering wings, said molding and finishing unit comprising a pair of longitudinally extending runner members of considerable length which are held in spaced parallel relation and which overlap said spreading unit in order to limit lateral spreading of the material, said runners carrying a strike-off blade substantially midway between the ends thereof which strikes off the material spread by the mixing and spreading unit, said strike-off blade having adjustable gates at the ends thereof to permit material to feed back past said strike-off blade, said runners carrying vertically adjustable blender wings which operate upon said material.

2,169,988
MULTICIRCUIT JACK
Earl F. Norrito, Malverne, N. Y.
Application March 1, 1937, Serial No. 128,501
17 Claims. (Cl. 179—96)



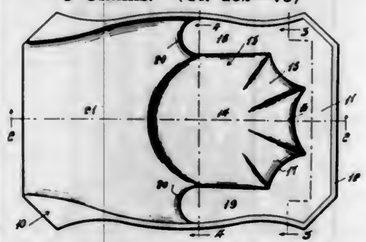
1. A telephone jack of normal construction, means mounted for rotation, said means so constructed as to make and break a predetermined number of circuits upon rotation, a plug, said plug upon its insertion in the jack acting on said means to cause it to rotate.

2,169,989
REFRIGERATING APPARATUS
George C. Pearce, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application October 29, 1936, Serial No. 108,250
5 Claims. (Cl. 172—279)



1. A motor control system including an electric motor having a phase and a main winding, a sealed receptacle having the oxygen removed therefrom, starting contact mechanism located within the sealed receptacle for controlling the connections of the phase winding, thermal operating means located within said sealed receptacle for controlling the starting contact mechanism, overload mechanism located within said sealed receptacle for controlling the energization of the phase and main windings, and means within said sealed receptacle for preventing the thermal operating means from having its operation directly influenced by the presence of the overload mechanism in the sealed receptacle.

2,169,990
MANICURE BOWL
Francois Victor Preve, Long Island City, N. Y.
Application November 10, 1938, Serial No. 239,881
3 Claims. (Cl. 132—73)

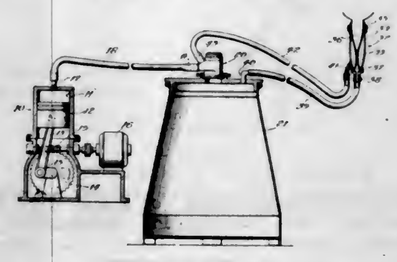


1. A manicurist's finger bowl comprising an elongated block recessed at one end to form a container, a hand rest extending into said container portion for supporting the palm of a hand with the fingers extending into said container, and the opposite end of said block being recessed to receive and support the wrist.

2,169,991
RESINOUS CONDENSATION PRODUCTS AND METHOD OF PREPARING SAME
Israel Rosenblum, Jackson Heights, N. Y.
No Drawing. Application November 3, 1934, Serial No. 751,420
6 Claims. (Cl. 260—25)

1. The method which comprises reacting one mol of a phenolic body, at least about two mols of formaldehyde, and approximately one mol of glycerol until a viscous condensate is obtained, and then neutralizing excess glycerol with an acidic natural resin.

2,169,992
MILKING MACHINE
Englebert Shurts, Waukesha, Wis.
Application October 24, 1938, Serial No. 236,601
6 Claims. (Cl. 31—61)

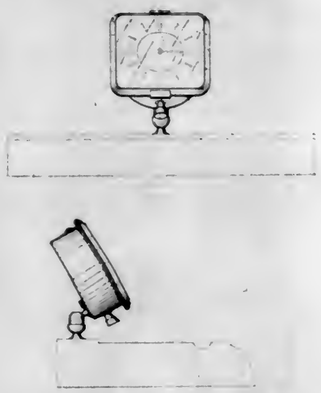


1. A milking machine of the character described comprising, a reciprocating piston pump having two cylinders with pistons therein movable in opposite directions, a milk can, air conducting means connecting the interior of said milk can with both cylinders of said pump to enable said pump to exhaust the air from said milk can, a pair of teat cups each teat cup comprising a rigid casing and a flexible liner adapted to receive an animal's teat in the interior thereof, air conducting means joining the interior of said teat cups with the interior of said can to produce a constant suction within said liners, air conducting means connecting the space between one casing and its liner with one of said cylinders, and air conducting means connecting the space between the other casing and its liner with the other said cylinder whereby the spaces between the casings and the liners are subjected to alternate pressure and vacuum to effect milking of the teats alternately.

DESIGNS

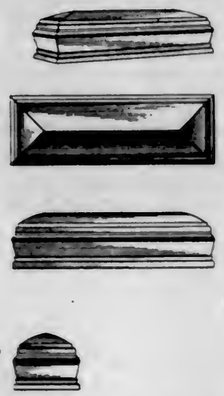
AUGUST 15, 1939

116,130
DESIGN FOR A PULL WIND DESK CLOCK AND BASE COMBINATION
John P. Ambrose, Bronx, N. Y., assignor to Phinney-Walker Company, Inc., New York, N. Y., a corporation of New York
Application June 19, 1939, Serial No. 85,566
Term of patent 14 years



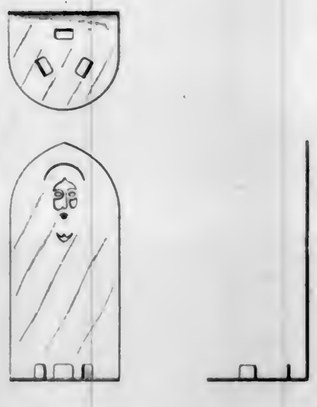
The ornamental design for a pull wind desk clock and base combination, substantially as shown.

116,131
DESIGN FOR A BURIAL CASKET
John Baker, Milton, Ind., assignor to The J. M. Doddridge & Sons Co., Milton, Ind., a corporation of Indiana
Application January 5, 1939, Serial No. 82,169
Term of patent 3½ years



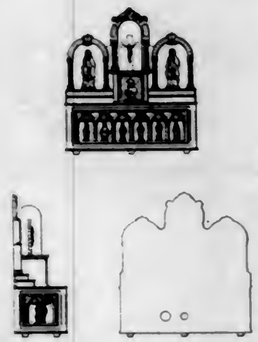
The ornamental design for a burial casket, substantially as shown.

116,132
DESIGN FOR AN ICON PROJECTOR OR SIMILAR ARTICLE
Arthur G. Dannell, Flushing, N. Y.
Application October 29, 1938, Serial No. 80,759
Term of patent 3½ years



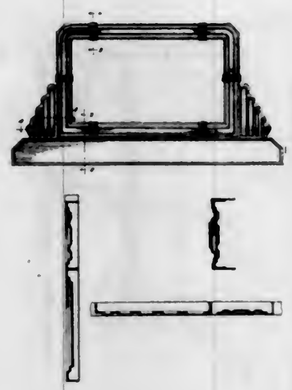
The ornamental design for an icon projector or similar article, as shown.

116,133
DESIGN FOR A VIRGIN SHRINE ALTAR
Jean De Lisle, Torrington, Conn.
Application May 22, 1939, Serial No. 85,116
Term of patent 3½ years



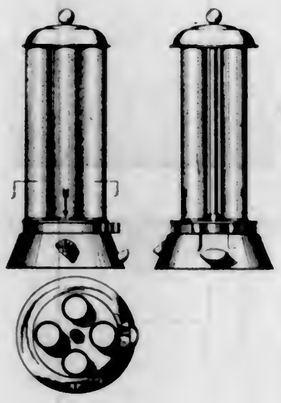
The ornamental design for a virgin shrine altar, as shown.

116,134
DESIGN FOR A FRAME FOR A DISPLAY BOARD OR THE LIKE
John B. Dey, Lynchburg, Va., assignor to Allen-Morrison Sign Co., Inc., Lynchburg, Va., a corporation of Virginia
Application May 24, 1939, Serial No. 85,189
Term of patent 3½ years



The ornamental design for a frame for a display board or the like, substantially as shown.

116,135
DESIGN FOR A DISPENSING DEVICE
William A. Gabriel, Oakland, Calif., assignor to Sanitary Vending Company
Application December 24, 1938, Serial No. 81,986
Term of patent 7 years



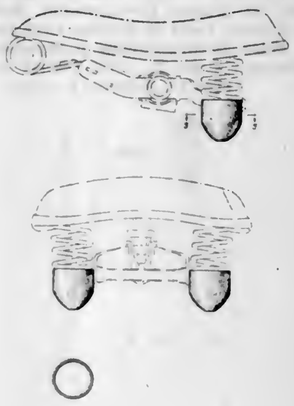
The ornamental design for a dispensing device, substantially as shown.

116,136
DESIGN FOR A TAX TOKEN DISPENSER
William F. Hebner, Paonia, Colo.
Application June 9, 1939, Serial No. 85,422
Term of patent 7 years



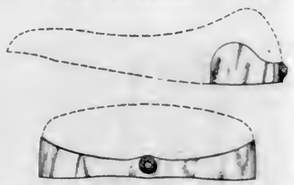
The ornamental design for a tax token dispenser, as shown.

116,137
DESIGN FOR A CYCLE SADDLE
Harold E. Kalter, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application January 7, 1939, Serial No. 82,216
Term of patent 14 years



The ornamental design for a cycle saddle, substantially as shown and described.

116,138
DESIGN FOR A CYCLE SADDLE SEAT
Harold E. Kalter, Elyria, Ohio, assignor to The Troxel Manufacturing Company, Elyria, Ohio, a corporation of Ohio
Application February 27, 1939, Serial No. 83,220
Term of patent 7 years



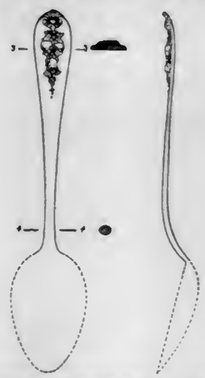
The ornamental design for a cycle saddle seat, substantially as shown, and described.

116,139
DESIGN FOR A STARTING BOX
Thomas A. Keen, San Mateo, Calif., assignor to Hannah M. Smith, River Forest, Ill.
Application November 28, 1938, Serial No. 81,436
Term of patent 14 years



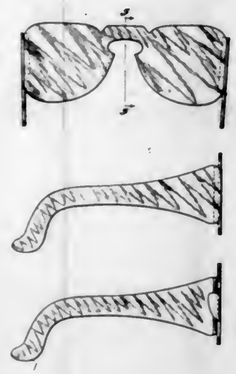
The ornamental design for a starting box, substantially as shown.

116,140
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Frederick W. Koonz, Bernardston, Mass., assignor to Rogers, Lunt & Bowlen Company, Greenfield, Mass., a corporation of Massachusetts
Application June 21, 1939, Serial No. 85,602
Term of patent 14 years



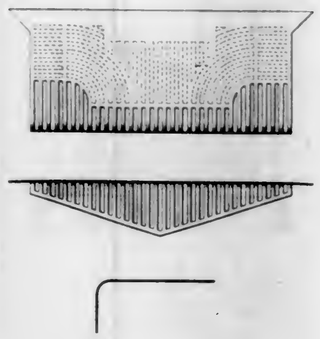
The ornamental design for a spoon or similar article, substantially as shown.

116,141
DESIGN FOR SUNGLASSES
Gerardo F. Marciano, Providence, R. I., assignor to Universal Optical Corporation, a corporation of Rhode Island
Application August 5, 1938, Serial No. 79,129
Term of patent 3½ years



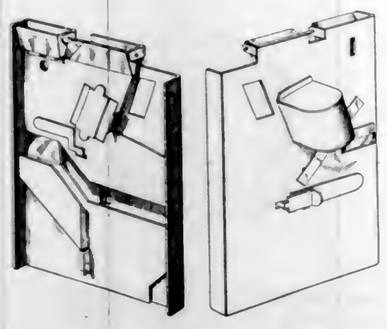
The ornamental design for sunglasses, substantially as shown and described.

116,142
DESIGN FOR AN ACCORDION GRILLE
Harry Meyers, New York, N. Y.
Application September 28, 1938, Serial No. 80,126
Term of patent 7 years



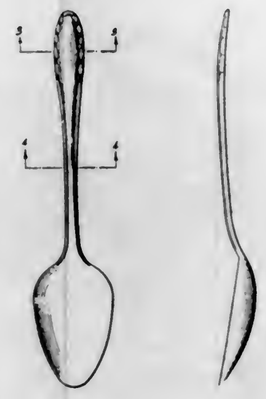
The ornamental design for an accordion grille, substantially as shown and described.

116,143
DESIGN FOR A COIN AND SLUG DETECTOR
William Patzer and Walter A. Tratsch, Chicago, Ill.
Application June 5, 1939, Serial No. 85,350
Term of patent 14 years



The ornamental design for a coin and slug detector, as shown.

116,144
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
James Russell Price, Cranston, R. I., assignor to Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island
Application June 23, 1939, Serial No. 85,644
Term of patent 14 years



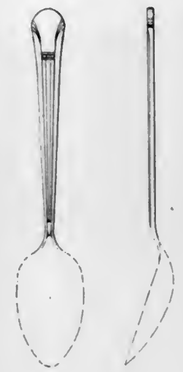
The ornamental design for a spoon or other article of flatware, substantially as shown.

116,145
DESIGN FOR A DISPLAY BOX
Howard S. Scholes, West Barrington, R. I.
Application May 17, 1939, Serial No. 85,054
Term of patent 3½ years



The ornamental design for a display box, substantially as shown.

116,146
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Milton Schulgasser, New York, N. Y., assignor, by mesne assignments, to National Silver Company, New York, N. Y., a corporation of New York
Application June 19, 1939, Serial No. 85,556
Term of patent 14 years



The ornamental design for a spoon or similar article, as shown.

116,147
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Milton Schulgasser, New York, N. Y., assignor, by mesne assignments, to National Silver Company, New York, N. Y., a corporation of New York
Application June 19, 1939, Serial No. 85,557
Term of patent 14 years



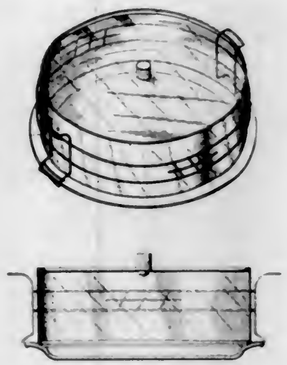
The ornamental design for a spoon or similar article, as shown.

116,148
DESIGN FOR A SPOON OR SIMILAR ARTICLE
Milton Schulgasser, New York, N. Y., assignor, by mesne assignments, to National Silver Company, New York, N. Y., a corporation of New York
Application June 19, 1939, Serial No. 85,558
Term of patent 14 years



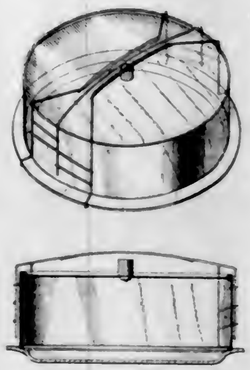
The ornamental design for a spoon or similar article, as shown.

116,149
DESIGN FOR A TRANSPARENT FOOD RECEPTACLE
Herbert V. Sharlitt and Philip J. Arnoff, Cleveland, Ohio
Application October 25, 1938, Serial No. 80,664
Term of patent 3½ years



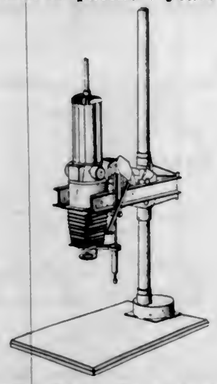
The ornamental design for a transparent food receptacle, substantially as shown.

116,150
DESIGN FOR A TRANSPARENT FOOD RECEPTACLE
Herbert V. Sharlitt and Philip J. Arnoff, Cleveland, Ohio
Application October 25, 1938, Serial No. 80,665
Term of patent 3½ years



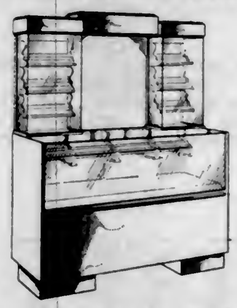
The ornamental design for a transparent food receptacle, substantially as shown.

116,151
DESIGN FOR A PHOTOGRAPHIC ENLARGER
Rudolph Simmon, Long Island City, N. Y.
Application October 19, 1938, Serial No. 80,550
Term of patent 7 years



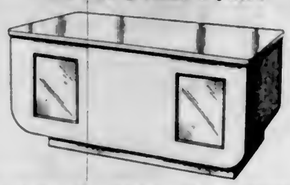
The ornamental design for a photographic enlarger, substantially as shown and described.

116,152
DESIGN FOR A DISPLAY CASE
Henry P. Vaughn, Grand Rapids, Mich., assignor to Grand Rapids Store Equipment Co., Grand Rapids, Mich., a corporation of Michigan
Application May 22, 1939, Serial No. 85,138
Term of patent 7 years



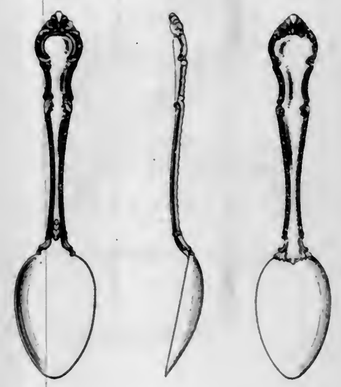
The ornamental design for a display case, as shown and described.

116,153
DESIGN FOR A DISPLAY CASE
Henry P. Vaughn, Grand Rapids, Mich., assignor to Grand Rapids Store Equipment Co., Grand Rapids, Mich., a corporation of Michigan
Application May 22, 1939, Serial No. 85,139
Term of patent 7 years.



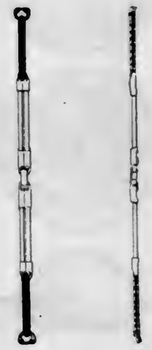
The ornamental design for a display case, as shown and described.

116,154
DESIGN FOR A SPOON OR OTHER ARTICLE OF FLATWARE
F. Russell Woodward, Attleboro, Mass., and Axel H. Staf, Providence, R. I., assignors to Gorham Manufacturing Company, Providence, R. I., a corporation of Rhode Island
Application April 19, 1939, Serial No. 84,380
Term of patent 14 years



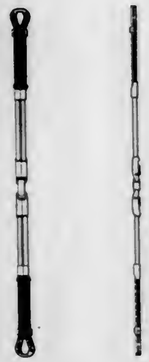
The ornamental design for a spoon or other article of flatware, substantially as shown.

116,155
DESIGN FOR A WATCH BRACELET OR SIMILAR ARTICLE
Benjamin Axel, Brooklyn, N. Y., assignor to Axel Brothers, Inc., New York, N. Y.
Application May 16, 1938, Serial No. 77,212
Term of patent 3½ years



The ornamental design for a watch bracelet or similar article, as shown.

116,156
DESIGN FOR A WATCH BRACELET OR SIMILAR ARTICLE
Benjamin Axel, Brooklyn, N. Y., assignor to Axel Brothers, Inc., New York, N. Y.
Application May 16, 1938, Serial No. 77,213
Term of patent 3½ years



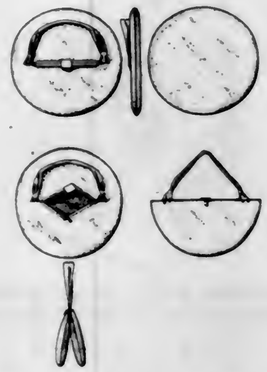
The ornamental design for a watch bracelet or similar article, as shown.

116,157
DESIGN FOR A GLASS COVERED BUTTER DISH OR ARTICLE OF SIMILAR NATURE
Ferdinand S. Barbiers, Lancaster, Ohio, assignor to Anchor-Hocking Glass Corporation, Lancaster, Ohio, a corporation of Delaware
Application May 29, 1939, Serial No. 85,249
Term of patent 7 years



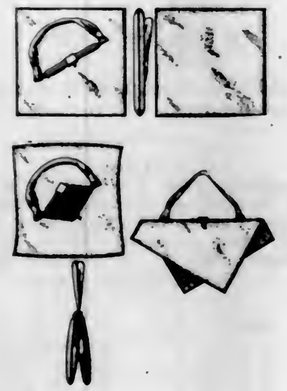
The ornamental design for a glass covered butter dish or article of similar nature, substantially as shown.

116,158
DESIGN FOR A LADY'S HANDBAG OR SIMILAR ARTICLE
Benjamin Robert Brody, New York, N. Y.
Application July 1, 1939, Serial No. 85,809
Term of patent 3½ years



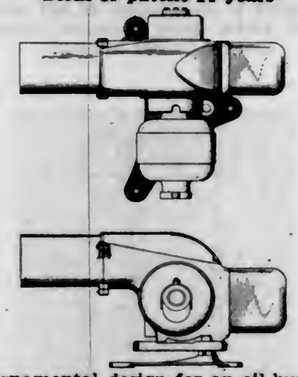
The ornamental design for a lady's handbag or similar article, as shown.

116,159
DESIGN FOR A LADY'S HANDBAG OR SIMILAR ARTICLE
Benjamin Robert Brody, New York, N. Y.
Application July 1, 1939, Serial No. 85,810
Term of patent 3½ years



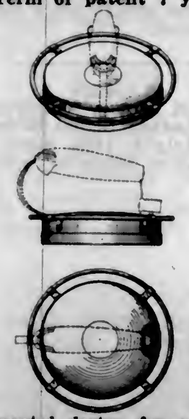
The ornamental design for a lady's handbag or similar article, as shown.

116,160
DESIGN FOR AN OIL BURNER
Joseph A. D'Elia, Bridgeport, Conn.
Application May 10, 1939, Serial No. 84,898
Term of patent 14 years



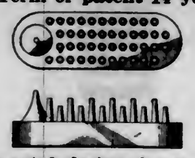
The ornamental design for an oil burner, substantially as shown.

116,161
DESIGN FOR A SADIRON OR THE LIKE
William E. Gundelfinger, St. Louis, Mo., assignor to Knapp-Monarch Company, St. St. Louis, Mo., a corporation of Missouri
Application June 12, 1939, Serial No. 85,452
Term of patent 7 years



The ornamental design for a sadiron or the like, substantially as shown and described.

116,162
DESIGN FOR A MASSAGE BRUSH
Robert W. Hall, Los Angeles, Calif.
Application March 11, 1939, Serial No. 83,511
Term of patent 14 years



The ornamental design for a massage brush, substantially as shown.

116,163
DESIGN FOR A PAPER TRAY
George W. Holt, Jr., San Francisco, Calif., assignor to Marathon Paper Mills Company, Rothschild, Wis., a corporation of Wisconsin
Application April 28, 1939, Serial No. 84,653
Term of patent 14 years



The ornamental design for a paper tray, as shown.

116,164
DESIGN FOR A PICTURE FRAME
Joseph J. Janus, Chicago, Ill.
Application June 14, 1939, Serial No. 85,492
Term of patent 7 years



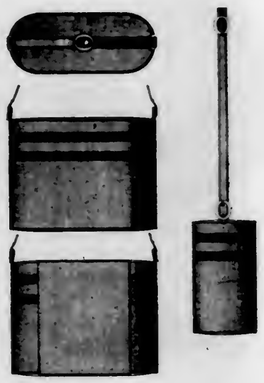
The ornamental design for a picture frame, as shown.

116,165
DESIGN FOR AN OVERNIGHT CASE
Harry Kaufmann, West Orange, N. J., assignor to K. Kaufmann & Co. Inc., Newark, N. J., a corporation of New York
Application April 11, 1939, Serial No. 84,198
Term of patent 7 years



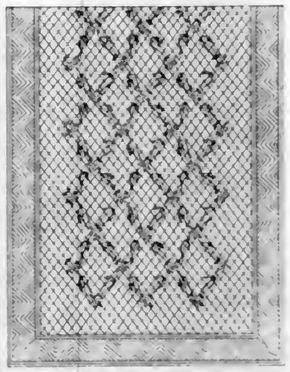
The ornamental design for an overnight case, as shown.

116,166
DESIGN FOR A SHOULDER BAG OR SIMILAR ARTICLE
Maurice J. Kruger, Brooklyn, N. Y., assignor to Kruger, Ressner & Arner, Inc., New York, N. Y., a corporation of New York
Application June 19, 1939, Serial No. 85,561
Term of patent 3½ years



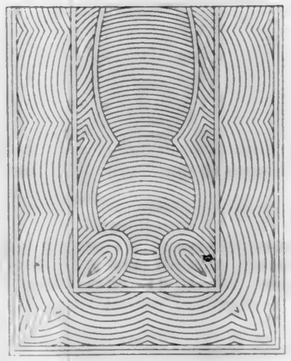
The ornamental design for a shoulder bag or similar article, substantially as shown.

116,167
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application July 3, 1939, Serial No. 85,820
Term of patent 3½ years



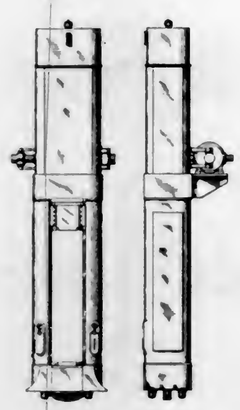
The ornamental design for a bedspread, substantially as shown.

116,168
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application July 3, 1939, Serial No. 85,821
Term of patent 3½ years



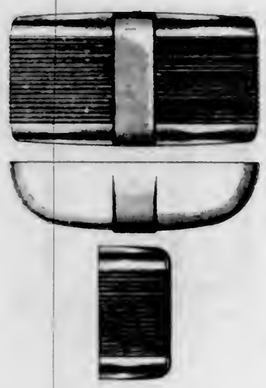
The ornamental design for a bedspread, substantially as shown.

116,169
DESIGN FOR A PRESS
Johan A. Muller, Mount Gilead, Ohio, assignor to The Hydraulic Development Corp., Inc., Wilmington, Del., a corporation of Delaware
Application March 2, 1939, Serial No. 83,295
Term of patent 7 years



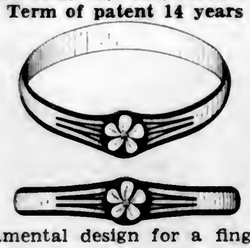
The ornamental design for a press, substantially as shown.

116,170
DESIGN FOR A HOUSING FOR SIGNAL DEVICE
Lloyd Rittenhouse, Honeoye Falls, N. Y., assignor to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y., a corporation of New York
Application June 8, 1939, Serial No. 85,403
Term of patent 7 years



The ornamental design for a housing for signal device, as shown.

116,171
DESIGN FOR A FINGER RING
Annetta K. Rodgers, Philadelphia, Pa., assignor of one-third to Frederick W. Williams, Philadelphia, Pa.
Application June 22, 1939, Serial No. 85,624
Term of patent 14 years



The ornamental design for a finger ring, as shown.

116,172
DESIGN FOR A PICTURE FRAME OR SIMILAR ARTICLE
Alfred Savastano, New York, N. Y.
Application March 9, 1939, Serial No. 83,461
Term of patent 14 years



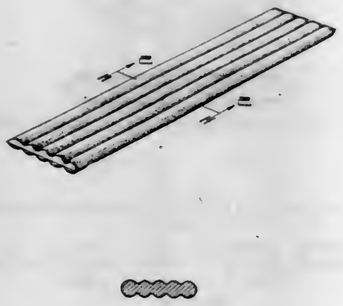
The ornamental design for a picture frame or similar article, substantially as shown.

116,173
DESIGN FOR A BOTTLE OR SIMILAR ARTICLE
James S. Steelman, Millville, N. J., assignor to Armstrong Cork Company, Lancaster, Pa., a corporation of Pennsylvania
Application December 30, 1938, Serial No. 82,078
Term of patent 14 years



The ornamental design for a bottle or similar article, as shown.

116,174
DESIGN FOR A FRANKFURTER
Frank W. Trabold, Detroit, Mich.; Detroit Trust Company and Irma J. F. Trabold, executors of Frank W. Trabold, deceased
Application October 15, 1938, Serial No. 80,473
Term of patent 14 years



The ornamental design for a frankfurter, as shown and described.

116,175
DESIGN FOR A SMOKING STAND
Chauncey E. Waltman, Chicago, Ill., assignor to The Howell Company, St. Charles, Ill., a corporation of Illinois
Application June 21, 1939, Serial No. 85,599
Term of patent 3½ years



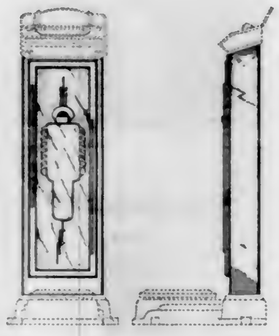
The ornamental design for a smoking stand, as shown and described.

116,176
DESIGN FOR A SMOKING STAND
Chauncey E. Waltman, Chicago, Ill., assignor to The Howell Company, St. Charles, Ill., a corporation of Illinois
Application June 21, 1939, Serial No. 85,600
Term of patent 3½ years



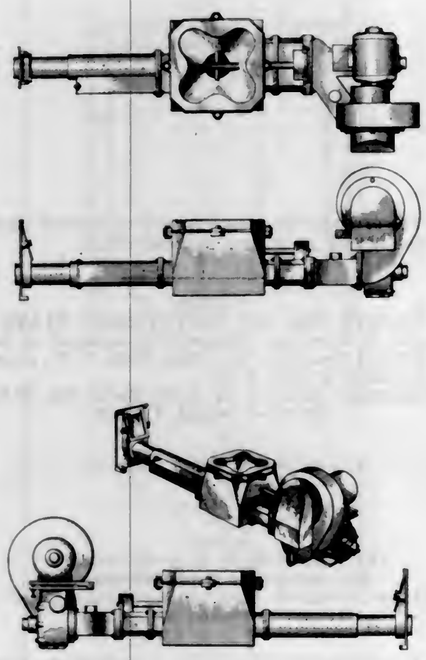
The ornamental design for a smoking stand, as shown and described.

116,177
DESIGN FOR A WEIGHING SCALE
William Watling, Chicago, Ill.
Application February 20, 1939, Serial No. 83,126
Term of patent 7 years



The ornamental design for a weighing scale, as shown and described.

116,178
DESIGN FOR A STOKER
Floyd D. Yarick, Detroit, Mich.
Application May 24, 1939, Serial No. 85,188
Term of patent 14 years



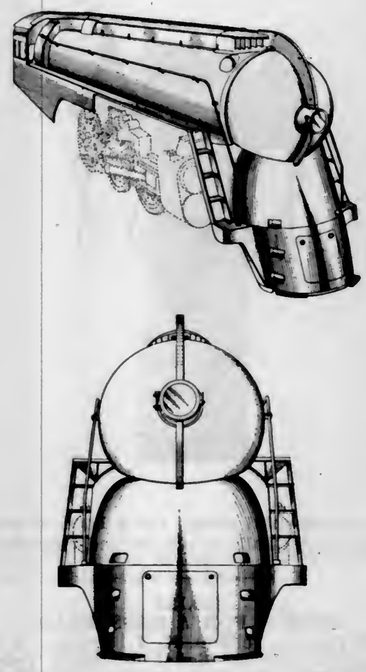
The ornamental design for a stoker, as shown.

116,179
DESIGN FOR A POCKET TOOL
William Kenneth Yates, Jr., Wilmette, Ill.
Application June 2, 1939, Serial No. 85,306
Term of patent 14 years



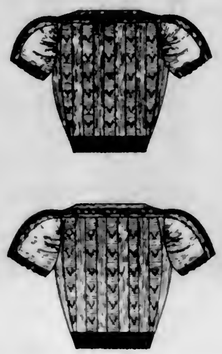
The ornamental design for a pocket tool, as shown.

116,180
DESIGN FOR A LOCOMOTIVE
Henry Dreyfuss, New York, N. Y., assignor to The New York Central Railroad Company, New York, N. Y., a corporation of New York
Application September 28, 1938, Serial No. 80,131
Term of patent 14 years



The ornamental design for a locomotive, substantially as shown and described.

116,181
DESIGN FOR A SWEATER
Louis Ellenoff, New York, N. Y.
Application July 10, 1939, Serial No. 85,934
Term of patent 3½ years



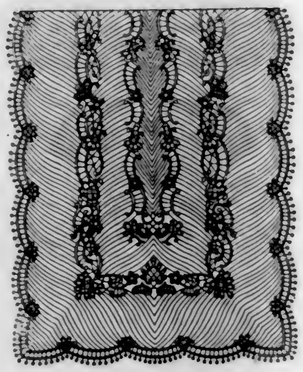
The ornamental design for a sweater, substantially as shown.

116,182
DESIGN FOR A HOOD OR SIMILAR ARTICLE
Leon Fainblatt, New York, N. Y.
Application June 1, 1939, Serial No. 85,287
Term of patent 3½ years



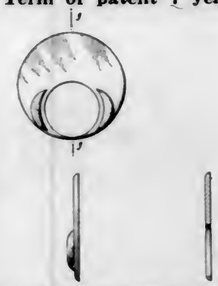
The ornamental design for a hood or similar article, substantially as shown and described.

116,183
DESIGN FOR A BEDSPREAD
Adolph Fassler, Pelham, N. Y., assignor to Harriette A. Lawson, Signal Mountain, Tenn.
Application July 3, 1939, Serial No. 85,812
Term of patent 3½ years



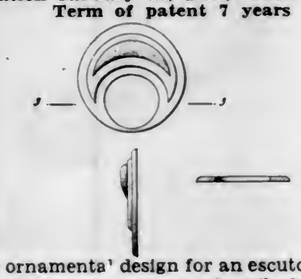
The ornamental design for a bedspread, substantially as shown.

116,184
DESIGN FOR AN ESCUTCHEON PLATE
Rufus G. Fordyce, Glencoe, Ill., assignor to Luminous Processes, Inc., New York, N. Y., a corporation of New York
Application January 14, 1939, Serial No. 82,348
Term of patent 7 years



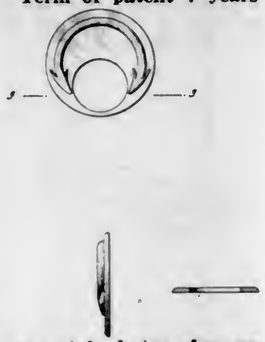
The ornamental design for an escutcheon plate, substantially as shown and described.

116,185
DESIGN FOR AN ESCUTCHEON PLATE
Rufus G. Fordyce, Glencoe, Ill., assignor to Luminous Processes, Inc., New York, N. Y., a corporation of New York
Application January 14, 1939, Serial No. 82,349
Term of patent 7 years



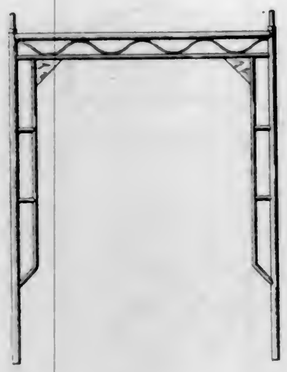
The ornamental design for an escutcheon plate, substantially as shown and described.

116,186
DESIGN FOR AN ESCUTCHEON PLATE
Rufus G. Fordyce, Glencoe, Ill., assignor to Luminous Processes, Inc., New York, N. Y., a corporation of New York
Application January 14, 1939, Serial No. 82,350
Term of patent 7 years



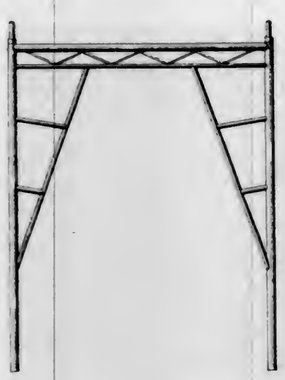
The ornamental design for an escutcheon plate, substantially as shown and described.

116,187
DESIGN FOR A SCAFFOLD UNIT
George W. Frost, Evansville, Ind.
Application June 29, 1939, Serial No. 85,753
Term of patent 14 years



The ornamental design for a scaffold unit, as shown.

116,188
DESIGN FOR A SCAFFOLD UNIT
George W. Frost, Evansville, Ind.
Application June 29, 1939, Serial No. 85,754
Term of patent 14 years



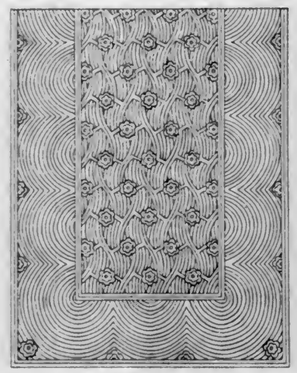
The ornamental design for a scaffold unit, as shown.

116,189
DESIGN FOR A SCARF OR SIMILAR ARTICLE
Benjamin F. Goodman, New York, N. Y.
Application July 13, 1939, Serial No. 85,990
Term of patent 3½ years



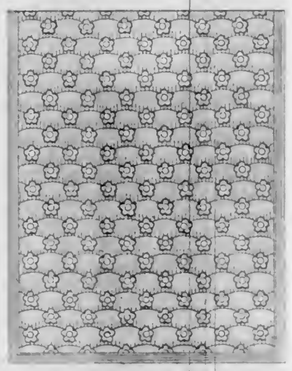
The ornamental design for a scarf or similar article, substantially as shown.

116,190
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application July 3, 1939, Serial No. 85,818
Term of patent 3½ years



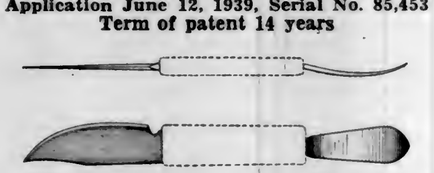
The ornamental design for a bedspread, substantially as shown.

116,191
DESIGN FOR A BEDSPREAD
Harriette A. Lawson, Signal Mountain, Tenn.
Application July 3, 1939, Serial No. 85,819
Term of patent 3½ years



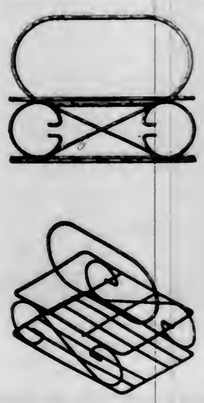
The ornamental design for a bedspread, substantially as shown.

116,192
DESIGN FOR A CITRUS FRUIT PEELER
Paul J. Ouellette, Pasadena, Calif.
Application June 12, 1939, Serial No. 85,453
Term of patent 14 years



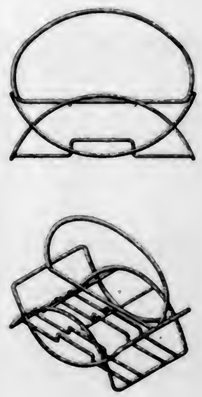
The ornamental design for a citrus fruit peeler, substantially as shown and described.

116,193
DESIGN FOR A BASKET
Anthony W. Planeta, Linden, N. J.
Application April 27, 1939, Serial No. 84,608
Term of patent 3½ years



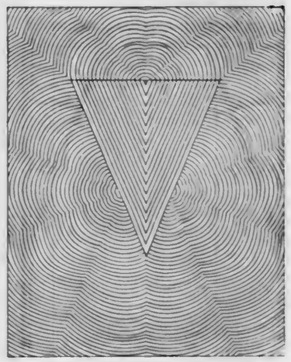
The ornamental design for a basket, as shown.

116,194
DESIGN FOR A BASKET
Anthony W. Planeta, Linden, N. J.
Application April 27, 1939, Serial No. 84,609
Term of patent 3½ years



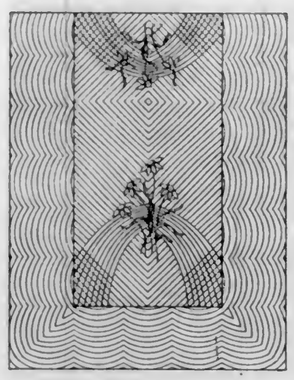
The ornamental design for a basket, as shown.

116,195
DESIGN FOR A BEDSPREAD
Richard Steinweg, New York, N. Y., assignor to Harriette A. Lawson, Signal Mountain, Tenn.
Application July 3, 1939, Serial No. 85,813
Term of patent 3½ years



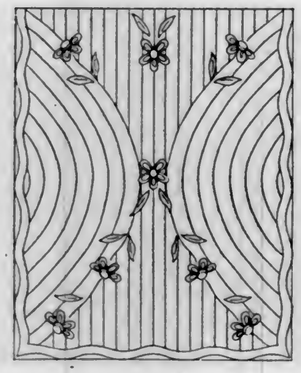
The ornamental design for a bedspread, substantially as shown.

116,196
DESIGN FOR A BEDSPREAD
Richard Steinweg, New York, N. Y., assignor to Harriette A. Lawson, Signal Mountain, Tenn.
Application July 3, 1939, Serial No. 85,814
Term of patent 3½ years



The ornamental design for a bedspread, substantially as shown.

116,197
DESIGN FOR A BEDSPREAD
Richard Steinweg, New York, N. Y., assignor to Harriette A. Lawson, Signal Mountain, Tenn.
Application July 3, 1939, Serial No. 85,815
Term of patent 3½ years



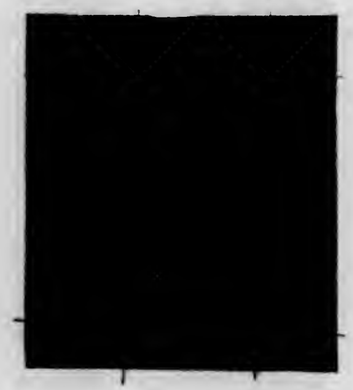
The ornamental design for a bedspread, substantially as shown.

116,198
DESIGN FOR A WOVEN TEXTILE FABRIC
John L. Walther, New York, N. Y.
Application June 21, 1939, Serial No. 85,594
Term of patent 3½ years



The ornamental design for a woven textile fabric, substantially as shown and described.

116,199
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application April 26, 1939, Serial No. 84,567
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

116,200
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application June 17, 1939, Serial No. 85,539
Term of patent 3½ years



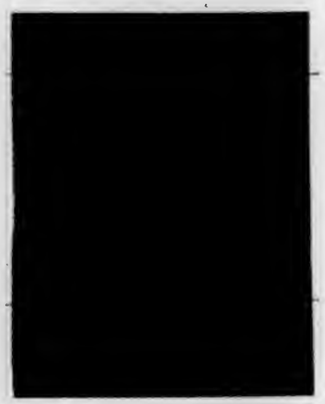
The ornamental design for a textile fabric or similar article, as shown and described.

116,201
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application June 17, 1939, Serial No. 85,540
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

116,202
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application June 17, 1939, Serial No. 85,541
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

116,203
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application June 17, 1939, Serial No. 85,543
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, as shown and described.

116,204
DESIGN FOR A TEXTILE FABRIC
Abraham Katz, New York, N. Y.
Application June 21, 1939, Serial No. 85,591
Term of patent 3½ years



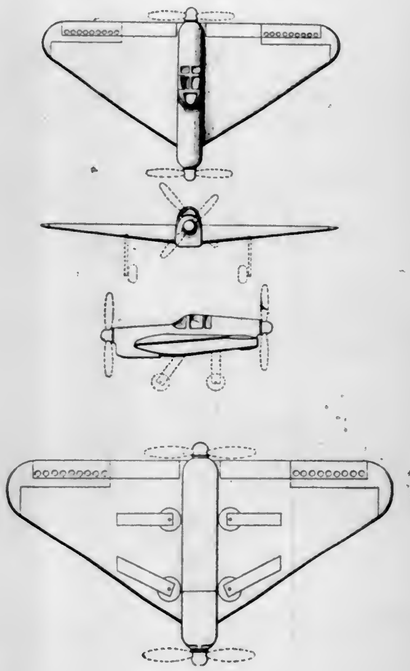
The ornamental design for a textile fabric, substantially as shown, and described.

116,205
DESIGN FOR A FLOOR COVERING OR THE LIKE
Charles D. Lehner, Long Island City, N. Y., assignor to Bigelow-Sanford Carpet Co., Inc., Thompsonville, Conn., a corporation of Massachusetts
Application May 5, 1939, Serial No. 84,822
Term of patent 7 years



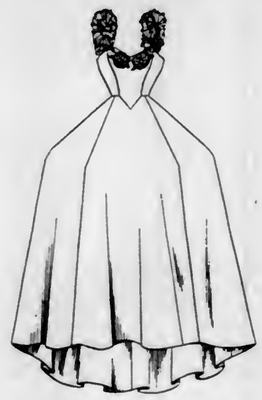
The ornamental design for a floor covering or the like, substantially as shown and described.

116,206
DESIGN FOR AN AIRPLANE
John D. McKellar, San Luis Obispo, Calif.
Application November 10, 1938, Serial No. 81,021
Term of patent 7 years

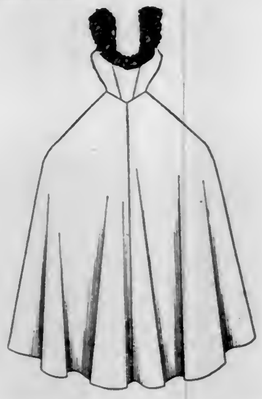


The ornamental design for an airplane, as shown.

116,207
DESIGN FOR A DRESS
Lillian Gates Rizsak, New York, N. Y.
Application July 24, 1939, Serial No. 86,195
Term of patent 3½ years

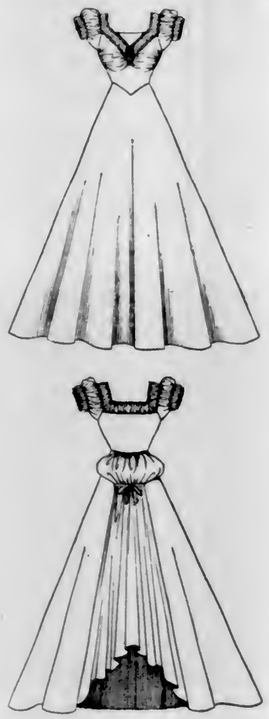


116,207—Continued



The ornamental design for a dress, substantially as shown.

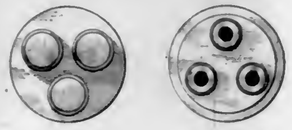
116,208
DESIGN FOR A DRESS
Harry Shull, New York, N. Y.
Application July 24, 1939, Serial No. 86,194
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

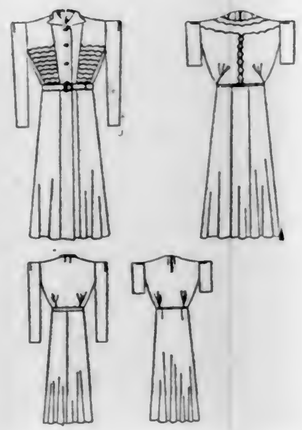
116,209
DESIGN FOR A FILTER BODY
Oscar Freiherr von Kohorn zu Kornegg, New York, N. Y., assignor to Oscar Kohorn & Co., Ltd., New York, New York, N. Y., a corporation of New York
Application December 20, 1938, Serial No. 81,895
Term of patent 14 years





The ornamental design for a filter body, as shown.

116,210
DESIGN FOR AN ENSEMBLE DRESS
Leo Glick, New York, N. Y.
Application July 8, 1939, Serial No. 85,917
Term of patent 3½ years



The ornamental design for an ensemble dress substantially as shown.

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CONTENTS

	Page
Issue of August 22, 1939	757
Adjudicated Patents	757
Disclaimers	757
Applications Under Examination	758
Commissioner's Decision—	
Ex parte Bowyer	759
Decisions of the U. S. Courts—	
Coty, Inc. v. Joseph Dixon Crucible Company	760
In re Widmer	762
Patent Suits	766
Notices of Cancellation	768
Trade-Marks Published (215 Applications)	769
Trade-Mark Registrations Granted	793
Trade-Mark Registrations Renewed	804
Labels	805
Prints	805
Reissues	807
Patents Granted	809
Designs	990

August 22, 1939

Trade Marks	220—No.	370,162 to No.	370,381, inclusive.
T. M. Renewals	29		
Labels	26—No.	53,402 to No.	53,427, inclusive.
Prints	3—No.	17,539 to No.	17,541, inclusive.
Reissues	5—No.	21,177 to No.	21,181, inclusive.
Patents	798—No.	2,169,993 to No.	2,170,790, inclusive.
Designs	122—No.	116,211 to No.	116,332, inclusive.
Total	1,203		

Adjudicated Patents

(C. C. A. Ohio.) Rossbach patent, No. 1,541,396, for calendering, claims 3 and 4 *Held* valid and infringed. *General Tire & Rubber Co.* v. *Fisk Rubber Corporation*, 104 F.(2d) 740.

(D. C. N. Y.) Gerstenzang patent, No. 1,721,815, for process and apparatus for manufacturing medical swabs, claims 1 to 4, inclusive, 7, 8, 9, 11 to 17, inclusive, 21, 31, 32, 33, 35, 38, and 40 *Held* valid and infringed. *Q-Tips, Inc.*, v. *Glickston*, 27 F. Supp. 948.

(C. C. A. Ohio.) Castricum patent, No. 1,723,501, for apparatus for forming weftless cord fabric, claim 4 *Held* valid and infringed. *General Tire & Rubber Co.* v. *Fisk Rubber Corporation*, 104 F.(2d) 740.

(D. C. Calif.) Norris patent, No. 1,726,500, for sound-deadening construction, claims 1, 3, 5, 6, 8, 10, 11, and 14 *Held* invalid, claim 4 *Held* valid and infringed, and claims 16, 17, and 23 *Held* not infringed. *C. F. Burgess Laboratories* v. *Coast Insulating Corporation*, 27 F. Supp. 956.

(C. C. A. Ohio.) Midgley patent, No. 1,742,777, for method and apparatus for incorporating cords in rubber sheets, claims 1 to 9, 10, and 14 *Held* valid and infringed. *General Tire & Rubber Co.* v. *Fisk Rubber Corporation*, 104 F. (2d) 740.

(C. C. A. Mich.) Stanley patent, No. 1,899,777, for lens, *Held* invalid. *Univis Corporation* v. *Ripe*, 104 F.(2d) 749.

(C. C. A. Mich.) Silverman patent, No. 1,912,165, for lens, *Held* invalid. *Id.*

(D. C. N. Y.) Bunnell patent, No. 1,921,604, for apparatus for manufacturing medical swabs, claims 1 to 9, inclusive, 13, 16, 21, 22, and 23 *Held* valid and infringed. *Q-Tips, Inc.*, v. *Glickston*, 27 F. Supp. 948.

(District Court, District of Columbia.) Kelly patent, No. 2,010,724, for coupon book, *Held* invalid. *Allison Coupon Co.* v. *Bank of Commerce & Savings*, 27 F. Supp. 923.

Disclaimers

1,852,093.—*Lloyd Smede* and *Errol B. Shand*, Pittsburgh, Pa. ARTICLE OF MANUFACTURE AND PROCESS OF MAKING IT. Patent dated April 5, 1932. Disclaimer filed August 2, 1939, by the assignee, *Westinghouse Electric & Manufacturing Company.*

Hereby enters this disclaimer to claim 9 of the patent.

2,011,881.—*William M. Stewart*, San Francisco, Calif. COOLING UNIT. Patent dated August 20, 1935. Disclaimer filed July 22, 1939, by the assignee, *Controlled Refrigerants Company Ltd.*

Hereby enters this disclaimer to wit: any interpretation of claim 1 that will include a structure wherein the thermostatic means is not located in a duct remote from the exposed heat-exchanging surface and is not controlled in its automatic operation solely by temperature changes of the gas circulating through the duct in which the thermostatic means is located.

2,122,210.—*Ernest F. Miller*, Prospect Park, Pa. COOLING APPARATUS. Patent dated June 28, 1938. Disclaimer filed August 3, 1939, by the assignee, *Westinghouse Electric & Manufacturing Company.*

Hereby enters this disclaimer to claims 3, 5, and 12 in said specification.

2,122,796.—*Albert J. Horton*, White Plains, N. Y. CONTROLLING DEVICE FOR PRINTING MACHINES. Patent dated July 5, 1938. Disclaimer filed July 29, 1939, by the assignee, *R. Hoe & Co., Inc.*

Hereby enters this disclaimer to claims 9, 10, 11, and 12 in the specification.

Condition of Applications Under Examination at Close of Business August 5, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,355; Trade-Mark Division, 1,458. Oldest new case, Jan. 7, 1939; oldest amended, Jan. 6, 1939.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Mar. 4	Mar. 3	750
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Mar. 13	Mar. 20	725
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	June 7	June 7	417
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	Apr. 29	Apr. 25	486
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	May 6	May 6	490
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Feb. 23	Mar. 11	985
5725	7. JARBOE, C. G., Optics; Photography	Mar. 21	Apr. 8	943
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Mar. 9	Mar. 11	1191
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Mar. 20	Mar. 27	739
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Apr. 15	Apr. 19	658
5087B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Apr. 1	Apr. 24	476
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Mar. 1	Feb. 27	574
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Feb. 14	Feb. 17	770
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	May 23	May 23	437
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 16	Mar. 16	1254
5716	16. SPENCER, C. J., Telegraphy; Telephony	Feb. 28	Mar. 13	860
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Apr. 1	Apr. 1	599
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Mar. 1	Feb. 27	565
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	May 10	Apr. 11	428
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Apr. 5	Apr. 4	434
7733	21. THOMPSON, T. J., Textiles; Cloth Finishing	May 3	Apr. 22	515
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Mar. 1	Mar. 2	975
7624	23. BUTTNER, W. J., Registers (part)	Feb. 3	Jan. 19	307
6083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 16	Feb. 20	1238
5709	25. BLAKELY, C. F., Classifying Solids Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and Comminutors.	May 6	May 6	491
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Mar. 13	Mar. 14	615
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Jan. 7	Jan. 6	1267
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Apr. 1	Apr. 5	463
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Mar. 24	Mar. 22	824
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 6	Mar. 7	849
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	May 3	May 2	661
4086	32. LESH, KARL, Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	May 10	May 1	387
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	May 3	May 11	876
6625	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	May 8	May 1	347
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 27	Mar. 24	662
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Feb. 25	Mar. 17	660
5886B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 13	Apr. 7	690
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	Feb. 2	Jan. 18	910
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 17	Apr. 18	632
7890	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Feb. 24	Feb. 25	1631
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Mar. 24	Mar. 16	375
5882	42. CUTTING, H. O., Electric Signaling	Jan. 27	Jan. 31	677
4886B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Apr. 1	Apr. 1	595
4087B	44. HARVEY, L. P., Refrigeration	Mar. 6	Mar. 6	726
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Apr. 4	Mar. 18	626
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Mar. 8	Mar. 10	767
6082	47. LOWE, E. R., Clutches; Brakes	Apr. 6	Apr. 7	440
5731	48. ROEPKE, O. B., Electricity, General Applications; Igniters	Apr. 26	Apr. 19	539
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Feb. 7	Feb. 7	1088
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Feb. 23	Mar. 4	1333
5628	51. BACKUS, C. D., Radiant Energy (part)	May 11	May 8	711
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Apr. 6	Mar. 27	763
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Apr. 14	Apr. 15	510
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Apr. 10	Apr. 6	381
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Feb. 4	Feb. 10	639
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Mar. 6	Mar. 2	1192
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Mar. 17	Apr. 26	433
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	Apr. 29	May 2	417
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Apr. 14	Apr. 17	652
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Apr. 10	Apr. 10	447
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Mar. 14	Mar. 8	557
5621	62. PUGH, E. C., Games; Geometrical Instruments	May 10	May 13	512
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Feb. 8	Feb. 6	851
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Apr. 14	Apr. 13	841
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Mar. 15	Mar. 9	639
2099B	Trade-Marks, Labels, and Prints: F. A. RICHMOND (Trade-Marks	June 10	June 18	1337
	(Labels and Prints	July 25	July 25	121
2605	Designs: H. H. KALUPY	June 26	June 30	863

DECISIONS IN PATENT AND TRADE-MARK CASES

Commissioner's Decision

EX PARTE BOWYER

Decided April 10, 1939

1. PRACTICE—RULE 75.

On petition to have a reference withdrawn and to reopen the prosecution of an application where a rule 75 showing made after final rejection was refused admission by the Primary Examiner because the delay in presenting same was not satisfactorily explained and applicant filed a further showing in excuse of the delay after the Examiner's statement had been filed in response to an appeal *Held* applicant not entitled to relief in the form asked and no sufficient reason found for divesting the Board of Appeals of jurisdiction.

2. SAME—SAME.

Where a showing under rule 75 is filed in an application in the jurisdiction of the Board of Appeals, *Held* that the Primary Examiner is authorized, if in his opinion the reference should be withdrawn, "to substitute for it any reference having an effective date prior to the date now sought to be established by the applicant or * * * more than two years prior to the filing date of applicant's application, pointing out the pertinence of such substituted reference. Such substitution will not reopen the prosecution of the case before the Primary Examiner."

3. SAME—SAME.

Where the Board of Appeals remands an application to the Primary Examiner under the provisions of rule 138 upon the presentation of a showing under rule 75, *Held* that "such a remand should not be considered as relieving the Examiner of the duty of considering the sufficiency of the showing upon which an applicant relies to excuse his delay in presenting affidavits, or other evidence, under rule 75." (Overruling *Ex parte Bachrach*, 1913 C. D. 56, in so far as it is inconsistent.)

4. SAME—SAME.

"There should be no difference between the practice as outlined in *Ex parte Berg*, 1906 C. D. 36, and *Ex parte Romunder*, 1910 C. D. 121, where affidavits under rule 75 were filed after a final rejection and the practice where such affidavits were filed after an appeal has been taken to the Board of Appeals."

ON PETITION. Denied.

Mr. Edward A. Hampson for Bowyer.

COE, *Commissioner of Patents:*

This is a second petition seeking to have a reference withdrawn and to reopen the prosecution of the application.

The first petition was taken after final rejection but while the application was in the jurisdiction of the Examiner. The admission of the showing offered to overcome the reference, Dean, under rule 75 was refused by the Examiner and affirmed on petition because (1) no satisfactory reason was given why it had not earlier been attempted to overcome the reference (*Ex parte Berg*, 1906 C. D. 36) and (2) because the reference to the record of interference 66,524 then offered in lieu of the usual affidavit under rule 75 was too indefinite to receive consideration since no particular part of the testimony was specified as required by *Ex parte Homan*, 1905 C. D. 288. There was mentioned only the "sworn preliminary statement" of applicant and "the entire file wrapper of the . . . interference".

Accompanying this present petition applicant has presented, as a further showing, a sworn explanation by the attorney who prosecuted this case before and during the interference that he considered the claims as clearly distinguishing over the reference and therefore thought it was not necessary to overcome it. There is also a sworn statement by the present attorney in this application that he received appointment as attorney from the present assignee as a result of this application being acquired by the present assignee late in 1936; that he thereupon caused the acquisition of the application of the adverse party Price in Interference 66,524; that he relied on the advice of the former attorney and hence made no study of the record of the interference, but that upon subsequent study of the interference record by an assistant it was found that applicant in his preliminary statement had alleged a date of reduction to practice of the invention, which was prior to the filing of the Dean application and that this was corroborated by the testimony.

It should be noted that the interference was dissolved when the two applications came under common ownership.

There also accompanies this petition excerpts of testimony in the interference bearing on invention prior to the date of the reference.

The prior petition alleged prematureness of the final rejection, but decision was made adversely on this point. Applicant proceeded with the taking of an appeal and the Examiner's statement has been made and the appeal set for hearing. It is not understood that applicant seriously raises any question of prematureness at this stage of the proceedings.

If the showing now offered had been presented while the case was in the jurisdiction of the Examiner he would have been in position to rule on both its admissibility and its sufficiency. Applicant now asks that the proceedings be set back to the stage at which they would have been had he seasonably and properly presented the showing while the Examiner had jurisdiction. Specifically applicant asks that the reference be withdrawn and that the Examiner be directed to reexamine the case de novo. This request implies that (1) the showing in excuse of the delay be ruled to be satisfactory, (2) the testimony relied on be held to be sufficient to overcome the reference, (3) the final rejection be held to be premature, and (4) applicant's acquiescence in the finality of the rejection be disregarded.

[1] Applicant is not entitled to relief in the form asked.

The case is now in the jurisdiction of the Board of Appeals, and no sufficient reason appears for divesting it of jurisdiction.

The showing now presented as to the delay in

bringing forward the evidence to establish "conception of the invention in this country" prior to the filing date of the Dean patent, should be considered by the Primary Examiner and, if, in his opinion, it is not sufficient for that purpose he is directed to file an answer to this present petition, stating the reasons for his conclusions.

[2] On the other hand, if the Examiner deems that the delay is satisfactorily explained, he should proceed to consider the evidence presented under rule 75 in lieu of the usual affidavits, reporting to the Board his conclusions with respect thereto. If, in his opinion, the reference should be withdrawn, he is authorized to substitute for it any reference having an effective date prior to the date now sought to be established by the applicant or where the publication date is more than two years prior to the filing date of applicant's application, pointing out the pertinence of such substituted reference.

Such substitution will not reopen the prosecution of the case before the Primary Examiner.

[3] [4] While in this case no remand has been made by the Board of Appeals under the provisions of rule 138, it is deemed proper, in view of some diversity of opinion as to the ruling in *Ex parte Bachrach*, 1913 C. D. 56, to state that such a remand should not be considered as relieving the Examiner of the duty of considering the sufficiency of the showing upon which an applicant relies to excuse his delay in presenting affidavits, or other evidence, under rule 75. There should be no difference between the practice as outlined in *Ex parte Berg*, 1906 C. D. 36, and *Ex parte Romunder*, 1910 C. D. 121, where affidavits under rule 75 were filed after a final rejection and the practice where such affidavits were filed after an appeal has been taken to the Board of Appeals.

Where such a remand has been made, if, in the opinion of the Examiner, the delay has not been sufficiently excused, he should so report to the Board of Appeals, notifying applicant that the affidavits or other equivalent proof under rule 75, cannot be admitted.

If the Examiner finds that the delay has been satisfactorily excused, he should then proceed as above indicated with respect to the present case.

In so far as the conclusion reached herein is in conflict with the decision in *Ex parte Bachrach*, 1913 C. D. 56, the latter is overruled.

U. S. Court of Customs and Patent Appeals

COTY, INC.
v.
JOSEPH DIXON CRUCIBLE COMPANY
No. 4,061. Decided February 27, 1939
[102 F.(2d) 209]

TRADE-MARKS—OPPOSITION—GOODS NOT OF SAME DESCRIPTIVE PROPERTIES—TALCUM POWDER AND GRAPHITE.

Opposition of owner of trade-mark "Air Spun" used on talcum powder to registration of same mark for use on graphite *Held* properly dismissed on ground that the goods are not of the same descriptive properties.

APPEAL from Patent Office. Affirmed.

Mr. Asher Blum (*Mr. Hugo Mock* and *Mr. Charles R. Allen* of counsel) for Coty, Inc.

Mr. Spencer A. Studwell (*Mr. Harry A. English* of counsel) for Joseph Dixon Crucible Company.

BLAND, *J.*:

Appellee, Joseph Dixon Crucible Company, on October 24, 1935, filed its application with the United States Patent Office for the registration of its trade-mark "Air Spun" used in interstate commerce for graphite.

The appellant, Coty, Inc., hereinafter referred to as opposer, filed a notice of opposition to the registration of appellee's said trade-mark, basing its opposition substantially on the following facts: That it is the owner of a trade-mark, No 327,950, registered September 10, 1935, which trade-mark consists of the words "Air-Spun" and is substantially identical in every respect with the mark which appellee (hereinafter referred to as applicant) sought to register, the mark of said registration being applied to talcum powder, dusting powder, and face powder and sachet.

Opposer alleges that the registration of applicant's mark would be damaging to the reputation of opposer for the reason that graphite is associated with lead pencils, one of the products manufactured by applicant; that the term "lead pencils" conveys, although erroneously, the suggestion of lead, and that if lead, at one time an injurious ingredient of certain face powders, was associated in the minds of purchasers with opposer's well-advertised and high-class face powders, its reputation would be damaged.

Both parties took testimony. The record shows that the use opposer made of its mark was chiefly for face powder. Its priority of use of the mark is not questioned. To some extent the mark was used by opposer for dusting and talcum powder and sachet, it being shown, however, that owing to the character of those goods, the same trade practices related to all of them. Opposer's goods are sold chiefly through department, drug and syndicate stores. Women, for the most part, are the ultimate consumers of opposer's products.

The applicant, according to the record, is a manufacturer of graphite and related products, such as crucibles, paints and varnishes, pencils, graphite greases, and many other graphite compounds. Its graphite is sold in bags weighing 10 or 12 pounds, principally as a lubricant, used alone or in combination with oils or greases. It is also used by electrical companies, ink manufacturing companies and others. It is sold to consumers who ordinarily use the same for manufacturing or processing purposes. The record does not show that the goods of both parties ever go to the same purchasers. Opposer's goods are widely advertised in magazines, newspapers, by radio, in window displays, etc. Applicant's advertising of a great many of its products is chiefly in mechanical or trade papers relating to "hardware, mill supply and such media probably as the 'Popular Mechanics.'"

The Examiner of Interferences concluded that the goods of the respective parties were not of the same descriptive properties; that owing to the differences in the goods and the conditions with reference to their use, advertisement and sale, there would be no likelihood of confusion, and therefore dismissed the notice of opposition and adjudged that applicant was entitled to register the said mark.

Upon appeal, the Commissioner of Patents affirmed the decision of the Examiner and stated:

> In the instant proceeding there is not the remotest relationship between the goods involved, and I agree with the Examiner of Interferences that this fact precludes the relief sought by opposer. Opposer's mark is doubtless unique and valuable, and opposer's annoyance at its appropriation by applicant is readily understood. But opposer owns the mark only by reason of its use thereof on particular merchandise, and can prevent its registration to others only for merchandise of the same class or description.

From the decision of the Commissioner the opposer has appealed here. Opposer's argument, so earnestly made before this court in support of its contentions that the opposition should have been sustained, is such an unusual presentation that it is thought proper to call attention to it in some detail in order that the position of the tribunals below and of this court in ruling thereon may be more fully understood. Opposer does not in its brief or in oral argument here suggest that there would be any likelihood of anyone concluding, under the circumstances shown by the record, that there was a common origin of the two articles sold under the respective trade-marks. Opposer predicates the damage, which it alleges it will sustain by said registration, not upon the fact that purchasers may conclude that opposer has gone into the graphite business, or that the applicant has gone into the face powder business, but argues that graphite is associated with lead pencils, although lead pencils contain no lead; that lead, at one time used in face powder and face lotions, was regarded as a harmful ingredient; that because of these facts it might be concluded by opposer's customers that its well- and favorably-known products sold under the name of "Air-Spun" contained lead (although they contain neither lead nor graphite), and that opposer's reputation would thereby be damaged.

Opposer frankly admits that the case presents a "very peculiar aspect" and that "an extremely novel and unique situation is present." It argues, in effect, that since both trade-marks are arbitrary and unusual, the likelihood of damage is greater than if the trade-marks were not of this character. In some instances this situation is entitled to consideration. *The Bon Ami Company* v. *McKesson & Robbins, Inc.*, 25 C. C. P. A. (Patents) 826, 93 F.(2d) 915, 490 O. G. 729.

We are of the opinion that the goods of the respective parties are not of the same class or of the same descriptive properties. This being true, the mandatory provisions of section 5 of the Trade-Mark Act of 1905, prescribing that trade-marks shall not be registered under certain circumstances, are not applicable. While the trade-marks are substantially identical, the goods of the respective parties are so different that it seems clear that there is not even a remote probability that purchasers would be deceived as to the origin of the respective goods from the concurrent use of the two marks as alleged.

Opposer argues that talc, used in face powder, and graphite are minerals and that both are finely powdered materials. It is not seriously argued that face powder and applicant's graphite and graphite products are of the same descriptive properties, but it is argued that graphite and lead are of the same descriptive properties. We think that opposer's contentions are tenuous. We have examined all the authorities cited, as well as many others and find no decision where such circuitous reasoning was employed in connection with the determination of the question of the registrability of a trade-mark or, for that matter, to questions relating to protection in the use of a mark. Trade-mark laws as a whole, and the registration law here involved in particular, were never designed to afford a remedy for every remote and far-fetched claim of damage.

Opposer particularly relies on the case of *Imperial Cotto Sales Co.* v. *N. K. Fairbanks Co.*, 50 App. D. C. 250, 270 Fed. 686, 284 O. G. 961. That case involved the question of the registration of the trade-mark "Cottolene" applied to cottonseed meal to be used for feeding livestock which was refused registration upon the opposition of the owner of the registered trade-mark "Cottolene" applied to a cooking fat made from cottonseed oil and "oleostearine." It is true that the Court of Appeals of the District of Columbia stated that in that particular case it was not so much a question of damage from confusion of goods but was a question of damage flowing from the "confusion of reputations." Regardless of what might be said with respect to the reasoning of the court in that case, we think that the situation present there was entirely different from that presented here since both of the products there involved had the same cottonseed origin which origin was indicated by the trade-marks there in issue. In that case there were far better grounds for arguing that the goods were of the same descriptive properties than in the instant case. We had that case under consideration in *The Procter & Gamble Co.* v. *The Crescent Supply Co.*, 23 C. C. P. A. (Patents) 790, 80 F.(2d) 1002, 1936 C. D. 140, and in discussing the case said:

> • • • Both of the products there involved had in part precisely the same cotton seed origin, and this origin was strongly indicated by the nature of the mark there in issue. Neither of these facts is present in the case at bar, and therefore the case last above cited is not, in our opinion, an authority upon the question here before us. It is therefore unnecessary for us to comment further upon said cited case.

None of the other cases cited by opposer are sufficiently in point on the facts at bar to warrant discussion here.

We conclude that the goods of the respective parties differ in all essential respects to the extent that there is no reasonable probability that confusion of purchasers, within the meaning of the

statute under consideration, will flow from the concurrent use of said marks as shown. The goods are not produced from the same materials, do not look alike and are used for different purposes by different classes of people. The circumstances surrounding the sale and advertisement of face powder and the other articles on which opposer uses its mark are wholly different from those pertaining to applicant's goods.

The Patent Office tribunals properly dismissed the notice of opposition and, upon this record, properly adjudged that the applicant was entitled to the registration for which it has made application, and the decision of the Commissioner affirming that of the Examiner of Interferences is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE WIDMER

No. 4,021. Decided March 6, 1939

[102 F.(2d) 409]

1. APPEALS—GROUNDS OF REJECTION NOT REVERSED BY BOARD OF APPEALS ARE BEFORE THE COURT FOR CONSIDERATION.

Where the Board of Appeals confined its decision to the issue of the patentability of the appealed claims in view of the prior art, and did not discuss the other grounds of rejection applied by the Primary Examiner, *Held* "The Board of Appeals did not reverse the Primary Examiner's decision as to any of the grounds of rejection applied by him. Accordingly, the decision of the Board is in legal effect an affirmance of the Primary Examiner on all of the grounds of rejection, and those grounds are before us for consideration."

2. MULTIPLICITY OF CLAIMS—CONFUSION RESULTING FROM INDEFINITENESS.

In considering the issue of undue multiplicity of claims *Held* "It is true, as stated by the Examiner, that appellant's alleged invention is simple, and that certain of the claims are somewhat confusing. We are of opinion, however, that such confusion as exists in the case results not from the number of claims presented, but rather from the indefiniteness of many of them."

3. PATENTABILITY—CLEANING PREPARATIONS.

In an application relating to cleaning preparations for use in cleaning glazed and porcelain ware, aluminum ware and other household utensils, certain claims covering many minerals not disclosed in the application *Held* unpatentable on the ground that they are broader than the disclosure, certain other claims not limited to any particular mineral or minerals *Held* unpatentable on the ground of indefiniteness, a certain other claim *Held* unpatentable on the ground of aggregation where there was nothing in the application to suggest that such a combination of mineral particles would produce any unexpected result or that each ingredient would do more than perform its well known function in the composition, and certain other claims which were limited to limestone particles of definite proportions and sizes or called for limestone particles of definite proportions and sizes in combination with other named ingredients, detergent in character, *Held* patentable.

APPEAL from Patent Office. Modified.

BLAND and JACKSON, *JJ.*, dissenting.

Mr. James A. Carr and *Mr. Joseph J. Gravely* for Widmer.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

HATFIELD, *J.*:

This is an appeal from the decision of the Board of Appeals of the United States Patent Office affirming the decision of the Primary Examiner rejecting all of the claims, Nos. 6, 7, 10, 11, 15 to 20 inclusive, 22, 24, 27 to 35 inclusive, and 38 to 47 inclusive, in appellant's application for a patent for an alleged invention relating to cleaning preparations for use in cleaning glazed and porcelain ware, aluminum ware, and other household utensils, and a process for making such preparations.

The principal part of appellant's cleaner consists of fine particles of limestone. Some of the particles are small enough to pass through a No. 325 United States Bureau of Standards sieve, and others are too large to pass through a No. 200 sieve.

It is stated in appellant's application that a household cleaner composed of particles of limestone or other soft mineral sufficiently small to pass through a No. 325 sieve, due to the fineness of the particles, is not effective in removing dirt and grease, and that, by the addition of particles of such soft minerals which are too large to pass through a No. 325 sieve, the abrasive characteristics of the cleaner are enhanced sufficiently to make it operate efficiently for its intended purpose without any appreciable abrasion or scratching of the articles on which it is used.

It appears from the record that appellant's mixture is free-flowing when dry, but is capable of becoming plastic when wet, and that it is the quality of plasticity which enables the larger particles in the mixture to serve as a mechanical scraper in the scouring operation.

The action of such cleaning preparation is purely physical and mechanical, and dirt and grease are removed by scouring. When used, the—

"cleaner is moistened with water, for instance, by application of a wet cloth, and rubbed on the surface to be cleaned."

The limestone referred to in appellant's application is "essentially of calcium carbonate, whether in the form of calcite or in the form of aragonite".

Appellant's preferred proportions of limestone particles are stated in his application to be—

less than one per cent large enough to be retained on the No. 100 sieve, about 10 per cent passing the No. 100 sieve and retained on the No. 200 sieve, and about 10 per cent passing the No. 200 sieve and retained on the No. 325 sieve, all the remaining limestone particles passing the No. 325 sieve.

Appellant further states in his application that—

Although the calcite of limestones has a hardness of about 3, aragonite has a hardness of about 3.5 to 4 and is found in small proportions in most sedimentary organic limestones, the proportion increasing in the younger rocks. Small proportions of volcanic dust, quartz and other mineral impurities occur in some limestones. Likewise different forms of limestones and stones from the same quarry and even parts of the same stone commonly have particles of different degrees of friability. I have found that under pressure of rubbing, as in the cleaning operation, a considerable number of the calcite particles meeting substantial resistance *will break up along cleavage planes and thus danger of scratching the ware is further reduced.* With such a mixture, the soft and more friable particles are sufficient to deal with loose and soft dirt that yields to short rubbing, while the harder and less friable particles are brought into play to deal with the harder and more obstinate dirt. Where the hardness or softness of minerals or mineral particles is mentioned herein, either by a numerical designation or otherwise, I have reference to the hardness of such minerals as established in Mohs' scale.

* * * * * * *

I have found that *many other minerals*, which are *essentially calcium salts, and also other minerals softer than about 4.5* and substantially insoluble in water have in varying degree characteristics in common with the preferred limestone, and while I have hereinbefore described the insoluble mineral matter of my composition as being limestone, *it is feasible to substitute therefore other calcium salts softer than about 4.5 or other relatively soft suitable mineral substantially insoluble in water.* It is noted that limestone, fluorspar and all other materials mentioned herein are harder than 2.5. [Italics ours.]

It is further stated in appellant's application that particles of soft minerals, such as limestone, too large to pass through a No. 325 sieve may be mixed with—

"finely ground harder material of a kind commonly used, such as pumice, volcanic dust, feldspar and quartz."

One group of the appealed claims is directed to the hereinbefore described cleaning preparations, the action of which is purely physical and mechanical. Of that group, claims 6, 7, and 10 are sufficiently illustrative. They read:

6. A cleaning preparation of substantially dry materials consisting mainly of crushed limestone particles of which upwards of fifty per cent by weight are small enough to pass a No. 325 U. S. Bureau of Standards sieve, from five per cent to thirty-five per cent by weight of said particles being too large to pass a No. 200 U. S. Bureau of Standards sieve, the remainder of said particles being small enough to pass the No. 200 sieve and large enough to be retained on the No. 325 sieve.

7. A cleaning preparation of substantially dry materials consisting mainly of crushed limestone particles of which upwards of sixty per cent by weight are small enough to pass a No. 325 U. S. Bureau of Standards sieve, from one per cent to five per cent by weight of said particles being too large to pass a No. 100 U. S. Bureau of Standards sieve, the remainder of said particles being small enough to pass the No. 100 sieve and large enough to be retained on the No. 325 sieve.

10. A cleaning preparation whose principal ingredient consists of particles of mineral harder than 2.5 and softer than 3.5, substantially insoluble in water and adapted to become plastic when wet, from five per cent to thirty-five per cent by weight of said particles being too large to pass a No. 200 U. S. Bureau of Standards sieve and the remainder of said particles containing particles of matter of colloidal character.

Appellant also discloses in his application cleaning preparations, consisting of the preparations hereinbefore set forth (composed of limestone and other mineral particles in specified proportions and sizes) in combination with certain detergent ingredients. Of those preparations, appellant's preferred composition is stated to be—

about eighty-nine per cent by weight of particles of sedimentary limestone of organic origin and meeting the specifications as to relative proportions of various sizes hereinbefore set forth as the preferred mixture of mineral particles, to which are added about two or three per cent by weight of small particles of soap, together with about nine per cent by weight of particles of sodium salts easily soluble in water and having appreciable detergent value, of which salts about one or two per cent by weight consists of metasilicate of sodium.

The second group of the appealed claims is directed to those cleaning preparations, the action of which is chemical as well as physical and mechanical. Claims 22, 46, and 47 are sufficiently illustrative of that group. They read:

22. A cleaning preparation whose principal ingredient consists of particles of minerals substantially insoluble in water but readily soluble in cold dilute hydrochloric acid, softer than 4.5 and adapted to become plastic when wet, from five per cent to thirty-five per cent by weight of said particles being too large to pass a No. 200 U. S. Bureau of Standards sieve, said preparation containing particles of soluble detergent of the group which consists of soaps and soluble alkali metal alkaline salts.

46. A composition of substantially dry materials adapted for use as a cleaner when rubbed with water directly on the surface to be cleaned, consisting principally of particles of crushed limestone with which are mixed particles of detergent easily soluble in water between five and thirty-five per cent by weight of said limestone particles being too large to pass a No. 200 U. S. Bureau of Standards sieve and upwards of twenty per cent by weight being small enough to pass a No. 325 U. S. Bureau of Standards sieve, said detergent belonging to the group which consists of soaps and soluble alkali metal alkaline salts.

47. A cleaning composition consisting of about eighty-nine per cent by weight of particles of sedimentary limestone of organic origin, about two or three per cent by weight of small particles of soap, and about nine per cent by weight of particles of sodium salts easily soluble in water and having appreciable detergent value, of which salts about one to two per cent by weight consists of metasilicate of sodium, less than one per cent of the limestone particles being large enough to be retained on a No. 100 sieve, about ten per cent passing the No. 100 sieve and retained on the No. 200 sieve, about ten per cent passing the No. 200 sieve and retained on the No. 325 sieve, and the remaining limestone particles passing the No. 325 sieve.

The references cited are: Stone (British), 18,782, November 16, 1889; Scales, 1,728,082, September 10, 1929; Reinle, 1,770,420, July 15, 1930; Huyzer (British), 335,005, September 18, 1930; Gangloff, 1,870,311, August 9, 1932; Scott, 1,879,953, September 27, 1932; Gray, 1,881,506, October 11, 1932.

The British patent to Stone relates to improvements in the manufacture of soaps and cleansing compositions. The compositions are made of slate, marble, marble chippings, "or any rock, or other mineral substances" in an "immature state, prior to their development into harder substances". It appears from the patent that the minerals were ground to a fine powder and mixed with tallow, soap, oils or other greasy substances, and the mixture formed into bars or tablets. It is stated in the patent that the minerals should be "ground to a fine powder".

The patent to Scales relates to a process of making a washing liquid (the liquid to be used in conjunction with washing soaps for the cleansing of fabrics). The patentee discloses the use of commercial sodium carbonate and finely pulverized limestone, mixed with water. The mixture is stirred thoroughly and heated to a boiling temperature. The solution is then cooled, and a weak solution of calcium chloride is added thereto. After the mixture thus formed is thoroughly stirred, the excess calcium carbonate is permitted to settle to the bottom of the container. The liquid is then drawn off and is ready for use.

The patent to Reinle relates to a scouring soap powder for use in cleaning metal ware or removing stains from the skin. The patentee discloses a mixture consisting of vegetable oil, sodium hydroxide, bicarbonate and carbonate of soda, a liquid alkaline solution, and a cementing material, such as volcanic ash. The mixture is first made into a solution, then dried, cut into bars, and ground into a fine powder.

The British patent to Huyzer relates to cleansing and polishing compositions for scouring and polishing metal. The patentee states that prior to his invention, the base of metal polishes was composed of finely divided silica; that the silica was dangerous to the health of the user; and that the object of his invention was to overcome such danger by providing a polish with a new base. He discloses

the use of natural magnesite, containing only small quantities of silica. He expressly states, however, that it is essential that the magnesite be "*ground uniformly* to a *sufficient degree of fineness*" [italics ours]; that it is essential that the magnesite be hard and crystalline in character; that it should be thoroughly ground into such a fine state that it would pass through a No. 250 sieve; that his powder might be used alone or with other cleaning powders; and that it could be applied by means of a damp cloth. The patentee also discloses a preparation in the form of a cream, which is composed of his powder and other ingredients.

The patent to Gangloff relates to a cleanser for aluminum. The patentee states that his cleanser—

"consists of a combination of substances that when moistened will produce ammonia in a nascent form and will have an abrasive action that will remove the foreign substances that are not dissolved by the ammonia, without scratching the metal."

He discloses a mixture of "sesqui-carbonate of soda, tri-sodium phosphate, and ammonium chloride", which, he states, "produces a desirable rate of evolution of nascent ammonia from a *paste* of colloidal damp mix". [Italics ours.] The patentee further states that a colloidal silica mixed with powdered pumice "if worked out to a consistent uniformity, produces an abrasive that is effective and unobjectionable".

The patent to Scott relates to a cleansing composition in the form of powder. The composition is composed of "tri-sodium phosphate", "sodium metasilicate", "soap, preferably a sodium soap", and "soda ash" in various proportions.

The patent to Gray relates to a detergent. The patentee's detergent is composed of a mixture of a non-fatty emulsifying cleansing compound and an abrasive ingredient, such as soapstone and volcanic ash. The patentee states that when volcanic ash is the—

"only abrasive ingredient of a non-fatty emulsifying detergent mixture, whose use necessitates the addition of a very large proportion of water, it settles very quickly to the bottom of the container in which the detergent is mixed with water and cakes there, and tends to cling to the surface of the article to be cleaned (marble, tile, terazzo, concrete) thus making it difficult to remove such volcanic ash from the container and from the article to be cleaned and also reducing the initial proportion of the abrasive to the chemical constituent;"

that finely ground soapstone added to the detergent mixture prevents, to a considerable extent, the close adhesion between the volcanic ash and the article being cleaned; that the soapstone reduces the severity of the abrasive action of the volcanic ash, and aids in emulsifying the grease on the articles being cleaned; and that the degree of fineness of the volcanic ash depends upon the use to which the detergent is to be put. He further states that the finer the volcanic ash, the "less harsh its abrasive action", and the—

"finer the soapstone particles the more effective is their action in preventing compacting of the volcanic ash. I prefer to use both soapstone and ash of a degree of fineness which will permit passage through a 200 mesh screen."

All of the appealed claims were rejected by the tribunals of the Patent Office on the references of record.

In his decision, the Primary Examiner stated that the appealed claims were rejected as unpatentable over the patents to Huyzer, Gray, or Gangloff. We quote from his decision.

Huyzer shows the use of finely divided mineral particles (magnesite) of the order of 250 mesh for cleaning purposes. Magnesite has a hardness of 3.5 to 4.5. The powdered material of the reference may be made plastic with water and may contain other well known cleaning agents such as soap. To substitute limestone for the mineral matter shown by Huyzer or to vary the size of the particles shown therein would not involve invention. The patents to Scales and Stone (British patent 18782 of 1888) show the well known use of pulverized limestone or marble for cleaning purposes. Furthermore it would not involve invention to add sodium silicate, tri-sodium phosphate or sodium carbonate to the composition of Huyzer in view of the well known use of such ingredients in detergent compositions as shown by Scott, Gangloff, Reinle or Gray cited.

Gray shows it is old to use a mixture of finely divided mineral matter, soda ash (sodium carbonate) and tri-sodium phosphate in a cleaning composition. Gangloff shows a similar composition. The substitution of powdered limestone for the mineral matter in the compositions of the references would not involve invention in view of the well known use thereof in detergent compositions as shown by Scales or Stone cited.

The Examiner also rejected all of the appealed claims on the ground of undue multiplicity. Claims 30, 31, 34, 35, and 40 were rejected on the additional ground of new matter. Claim 45 was rejected on the ground of aggregation, the Examiner holding that a

"mere mixture of limestone and another abrasive material of the groups specified would be aggregative in character",

and that each

"ingredient would perform its well known function in the composition."

Claims 10, 11, 15 to 20 inclusive, 22, 24, 27 to 35 inclusive, and 38 to 42 inclusive, were also rejected on the ground of indefiniteness, and on the further ground that they were broader than appellant's disclosure. Relative to the latter ground of rejection, the Examiner said:

Applicant has merely disclosed minerals of the group consisting of calcium carbonate, calcium phosphate, calcium fluoride, calcium borate and magnesium carbonate as suitable substances. The broad terminology in the claims would include numerous substances not contemplated by applicant and which are beyond the scope of the alleged invention. For example, barite, glauberite, hessite, langite, talc, valentinite, wulfenite and zaratite. The decision in *Metals Recovery Co.* v. *Anaconda Copper Mining Co.*, 31 F.(2d) 100 is deemed applicable in the instant case.

Claims 10, 16, 18, 24, 27, 28, 29, 38, and 42 were rejected by the Examiner on the additional ground of new matter—

"in the range of hardness specified. The original disclosure shows the mineral to be softer than 4.5 and does not set forth any lower limit. The range of hardness now specified is deemed a departure from the original disclosure."

Claims 43 and 44 were rejected on the ground that they were vague and indefinite.

The Board of Appeals confined its decision to the issue of the patentability of the appealed claims in view of the prior art, and did not discuss the other grounds of rejection applied by the Primary Examiner.

In its decision, the Board stated that, although the references did not disclose the particular "size ranges of abrasive material" disclosed by appellant, it was of opinion that the selection of such size ranges was a mere matter of judgment and did not involve invention; that the "references" which disclose—

"powdered material must necessarily use this material in varying sizes, though the upper limit of the sizes used may possibly be lower than in appellant's case. However, we think it obvious, where a more active abrasive action is desired, to incorporate more of the larger-sized particles;"

that the materials employed by appellant were all old in the art and had been used in somewhat similar compositions, and that, therefore, the appealed claims—

"involve a mere aggregation of known ingredients without any new or unexpected result."

[1] The Board of Appeals did not reverse the Primary Examiner's decision as to any of the grounds of rejection applied by him. Accordingly, the decision of the Board is in legal effect an affirmance of the Primary Examiner on all of the grounds of rejection, and those grounds are before us for consideration. *In re Wagenhorst*, 20 C. C. P. A. (Patents) 991, 64 F.(2d) 78, 433 O. G. 223; *In re Ball*, 23 C. C. P. A. (Patents) 830, 81 F.(2d) 242, 466 O. G. 244.

We will first consider the issue of undue multiplicity of claims.

[2] It is true, as stated by the Examiner, that appellant's alleged invention is simple, and that certain of the claims are somewhat confusing. We are of opinion, however, that such confusion as exists in the case results not from the number of claims presented, but rather from the indefiniteness of many of them.

As hereinbefore noted, claims 10, 11, 15 to 20 inclusive, 22, 24, 27 to 35 inclusive, and 38 to 42 inclusive, were rejected by the Primary Examiner as being too indefinite, and on the further ground that they were broader than appellant's disclosure. Claim 10, which, for the purpose of the issue now under consideration, is sufficiently illustrative of claims 11, 15, 16, 18, 22, 24, 27, 28, 29, 32, 38, 39, and 42, covers any mineral harder than 2.5 and softer than 3.5 which is plastic when wet and substantially insoluble in water. Claims 17 and 19 cover any mineral matter substantially insoluble in water, the particles of which have different crystalline cleavage properties. Claims 20, 30, 31, 33, 34, 35, and 40 cover any mineral matter substantially insoluble in water.

[3] Counsel for appellant has cited and quoted from several decisions of the Supreme Court, wherein the question of indefiniteness of patent claims was considered. However, we find nothing either in the record or in the brief of counsel for appellant from which it may be determined that claims 10, 11, 15 to 20 inclusive, 22, 24, 27 to 35 inclusive, and 38 to 42 inclusive, rejected as being broader than appellant's disclosure, do not cover many minerals, which, as stated by the Primary Examiner, are not disclosed in appellant's application. We are unable to hold, therefore, that the rejection of those claims on the ground that they were broader than appellant's disclosure is error.

Claim 41 was properly rejected on the ground of indefiniteness.

That claim merely provides for the mixing "of fine particles of limestone of which a substantial proportion by weight are small enough to pass a No. 325" sieve with other ingredients mentioned in the claim. It does not specify the various sizes of the limestone particles, nor does it, in fact, require that any of them shall be too large to pass through a No. 325 sieve.

Claim 43 was rejected by the Primary Examiner on the ground that it was vague and indefinite. It reads:

43. A cleaning preparation comprising a mixture of small particles of mineral, said mixture comprising sufficient particles of colloidal and near-colloidal size to render the mixture plastic when wet, said mixture comprising sufficient particles too large to pass through a No. 200 U. S. Bureau of Standards sieve and sufficient in quantity to effectively abrade dirt, and sufficient particles of intermediate sizes to embed the particles too large to pass the No. 200 sieve.

It will be observed that that claim is not limited to any particular mineral or minerals. It merely requires that the mineral particles be of colloidal and near-colloidal size, some being too large to pass through a No. 200 sieve and sufficient in quantity to abrade dirt, and others of intermediate sizes sufficient in quantity to embed the larger particles.

Claim 44 is not limited to any particular mineral or minerals, and is substantially the same as claim 43, supra.

We think claims 43 and 44 are vague and indefinite and were properly rejected on that ground.

Claim 45, which was rejected by the Primary Examiner on the ground of aggregation, reads:

45. A cleaning composition comprising particles of various sizes of limestone and particles of a silicon compound of the group consisting of pumice, volcanic ash, feldspar and quartz, the finer particles of limestone constituting upwards of ten per cent by weight of the composition and the larger silicon-containing particles being loosely embedded in particles smaller than themselves.

There is nothing in the claim to indicate the size of particles of any of the ingredients mentioned therein. They may be of various sizes, but the finer particles of limestone should constitute approximately "ten per cent by weight of the composition", the silicon-containing particles should be "loosely embedded in particles smaller than themselves", and all of the other particles of which the preparation is composed may be nearly as fine as the finer particles of limestone. There is nothing in appellant's application to suggest that such a combination of mineral particles would produce any unexpected result, or that each ingredient would do more than perform its well-known function in the composition.

We think that claim 45 was properly rejected on the ground of aggregation.

The only claims remaining for our consideration are Nos. 6, 7, 46, and 47, and the sole remaining issue with regard to those claims is whether they are unpatentable in view of the prior art.

Claims 6 and 7 are limited to limestone particles of definite proportions and sizes.

Claims 46 and 47 call for limestone particles of definite proportions and sizes in combination with other named ingredients, detergent in character.

It is true, as held by the tribunals of the Patent Office, that the prior art references disclose the use

of various minerals, including limestone, in cleaning preparations. However, we find nothing in any of the references either disclosing or suggesting the compositions defined in appealed claims 6, 7, 46, and 47.

The patentee Huyzer states that the magnesite used in his cleaning preparation must be ground to a uniform degree of fineness.

The patentee Gangloff discloses the use of colloidal silica mixed with powdered pumice, and teaches that the mixture must be "worked out to a consistent uniformity".

The patentee Gray states that the minerals used as abrasive ingredients in his detergent preparation should be ground to a "degree of fineness which will permit passage through a 200 mesh screen".

It is possible, of course, that in grinding the minerals disclosed in the patent to Gray to a degree of fineness that will permit them to pass through a 200 mesh screen the particles will vary some in size. The patentee, however, emphasizes the importance of using only fine particles of the minerals disclosed by him. He does not suggest that those particles should vary in size. Nor do we find any suggestion in any of the prior art references that the particles of minerals used as abrasives in cleaning preparations should vary in size. On the contrary, so far as there is any reference in the prior art to the size of mineral particles, uniformity is emphasized as being important if not essential.

Appellant's preparations are novel. They "operate efficiently in removing dirt and grease without appreciable abrasion" of the articles on which they are used, and are, therefore, useful.

Appellant's invention lies not in the discovery of new minerals for use in cleaning preparations, nor in the discovery of new properties in the minerals disclosed by him, but rather in the discovery that a free-flowing preparation, composed of various sizes and proportions of mineral particles, such as limestone, would, alone or in combination with detergent ingredients, produce new and unexpected results.

The Solicitor for the Patent Office has called our attention to our decision in the case of *In re Charles Ness*, 18 C. C. P. A. (Patents) 918, 46 F.(2d) 375, 407 O. G. 6, wherein we said:

> It is true that the particular sizes—40 to 90 mesh granules—claimed by appellant are not specifically disclosed in the prior art, but the very fact that so wide a variance in size is allowed himself by claimant strongly indicates that size is not of the essence of the matter but is a factor likewise merely within the power of determination by those skilled in the art.

Although it was held in that case that the particular sizes of granules there involved were "not of the essence of the matter", we are of opinion that, in the case at bar, the sizes and proportions of the limestone particles are not a mere matter of judgment, but are "of the essence of the matter", and that appellant's preparations involve invention.

For the reasons stated, the decision of the Board of Appeals is modified, being reversed as to claims 6, 7, 46, and 47, and in all other respects affirmed.

Modified.

BLAND, *J.* (dissenting in part):

I must respectfully dissent from the majority's holding in reversing the decision of the Board of Appeals as to claims 6, 7, 46, and 47. I think the Board's rejection on the ground that the selection of the particle sizes was a matter of judgment and not one of invention was correct. I think the allowed claims define nothing inventive. It is a matter of common knowledge that the size of abrasive particles to be used usually depends on the character of thing to be abraded.

The decision of the majority holds the rejection on the ground of multiplicity to be erroneous without, in my judgment, assigning sufficient reasons for such a conclusion. The opinion states that the invention is simple and the holdings of the tribunals below emphasize the fact that the subject matter of the application relates to a simple matter, and yet appellant submitted a vast array of claims in an attempt to define his alleged invention. There are 31 claims here on appeal. A complete record of the action of the Patent Office with reference to the character of any other claims which might have been submitted, rejected and abandoned is not shown. The record does show various amendments made to the claims here on appeal, the last of which is numbered 47. It seems to me that it is fair to say that during the prosecution of the case there were at least 47 claims submitted and various amendments made. If the Examiner was to give any consideration to such a verbose application, it would be necessary to search through the maze of "confusing" language of the claims to find some expression of a lurking invention and to assign in each instance appropriate grounds for his rejection. The majority holds as follows:

> It is true, as stated by the Examiner, that appellant's alleged invention is simple, and that certain of the claims are somewhat confusing. We are of opinion, however, that such confusion as exists in the case results not from the number of claims presented, but rather from the indefiniteness of many of them.

It seems obvious that no one can write approximately 47 claims in an attempt to define an alleged invention, which concededly relates to a "simple" matter, without resulting confusion. If there is any merit anywhere in a rejection on the ground of multiplicity, which is another way of saying that the applicant has not complied with the statute in clearly stating his invention, it would seem to apply in the instant case, and if we do not apply it here, I do not know where it will be applied. An examination of the claims discloses that many of them are mere repetitions of others with no material difference except in language. Some of them, it seems to me, go far beyond any disclosure made.

JACKSON, *J.*, concurs in the foregoing dissenting opinion.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,357,364, H. Van Bree, Motor driven hair clippers, D. C., E. D. Wis., Doc. 5136, *Racine Universal Motor Co.* v. *J. Oster et al.* Patent held invalid as to claims 1 and 2, bill dismissed May 29, 1939.

1,484,445, 1,534,927, 1,543,832, 1,686,654, C. P. Dubbs, Method of treating hydrocarbons; 1,543,831, same, Apparatus for treating hydrocarbons; 1,537,593, 1,670,108, G. Egloff, Process of cracking oil, D. C., S. D. Ill., N. Div., Doc. 846, *Universal Oil Products Co.* v. *Illinois Oil Co.* Dismissed without prejudice (notice June 7, 1939).

1,492,972, R. A. Engler, Diano electric machinery; 1,993,581, E. F. Alexanderson, System of distribution, suit for declaratory judgment filed June 5, 1939, D. C., S. D. N. Y., Doc. 4/120, *R. A. Engler* v. *General Electric Co.*

1,534,927. (See 1,484,445.) 1,537,593. (See 1,484,445.)

1,543,831. (See 1,484,445.) 1,543,832. (See 1,484,445.)

1,552,326, P. J. Lunati, Lifting device for motor vehicles, C. C. A., 6th Cir., Doc. 7824, *P. J. Lunati et al.* v. *N. Barrett (Cleveland Air Compressor Co.)*. Claims 3 and 4 held not infringed June 8, 1939.

1,660,536, R. E. Walliser, Machine for making and applying tufts, D. C., S. D. N. Y., Doc. E 81/89, *L. G. Blessing* v. *Consolidated Trimming Co.* Decree for plaintiff (notice June 2, 1939).

1,668,490. (See Re. 17,131.)

1,670,108. (See 1,484,445.)

1,686,654. (See 1,484,445.)

1,736,960, R. C. Zuckerman, Potato digger, filed June 2, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 26, *R. C. Zuckerman* v. *W. Isaac et al.*

1,753,884, H. E. Edwards, Marking device, D. C. Mass., Doc. E 3310, *T. J. Edwards, Inc.*, v. *J. L. Valiquette.* Injunction Sept. 10, 1936.

1,784,466, O. Rensonnet, Steering sight adapted to be fitted to the wings of the mudguards of motor vehicles; 1,877,428, same, Motor vehicle steering sight, D. C., S. D. N. Y., Doc. E 84/202, *Casco Products Corp. et al.* v. *Snap-Lite Corp. et al.* Consent decree for plaintiff (notice June 5, 1939).

1,853,260, F. A. Crossett, Syringe, filed May 31, 1939, D. C., S. D. Calif., C. Div., Doc. 412–C, *F. A. Crossett* v. *L. Schleicher (Professional Specialties Co.)*.

1,870,119, G. A. Hughes, Airplane, filed June 5, 1939, D. C. Nebr. (Lincoln), Doc. 28, *G. A. Hughes* v. *United Air Lines Transport Corp.*

1,877,428. (See 1,784,466.)

1,900,127, W. H. Orem, Milk bottle hood, D. C. Md., Doc. 28, *W. H. Orem* v. *H. F. Kniesche.* The cross bill of M. P. Chaplin against H. F. Kniesche, and the amended bill of W. H. Orem dismissed with prejudice May 5, 1939.

1,952,230, G. V. Anderson, Automatic profile milling machine; 1,997,890, E. L. Wall, Universal tracer; 1,997,891, same, Universal die sinking attachment for horizontal milling machines; 1,997,892, 2,007,231, same, Duplicating machine; 2,007,232, same, Automatic carriage control for duplicating machines; 2,051,430, same, Universal die sinking attachment for vertical milling machines; Re. 19,985 (of 2,024,256), B. Sassen, Pattern controlled die-sinking machine, filed June 5, 1939, D. C., E. D. Mich., S. Div., Doc. 1244, *The Cincinnati Milling Machine Co.* v. *M. Turchan et al. (Turchan Follower Machine Co.)*.

1,974,891, 1,974,892, S. Poliakoff, Brick lifter, D. C., S. D. N. Y., Doc. E 86/12, *Paul Gabriel Corp.* v. *E. T. Carroll & Son, Inc., et al.* Dismissed with prejudice (notice June 7, 1939).

1,974,892. (See 1,974,891.)

1,981,308, J. Copley, Tree puller, filed May 31, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 411–M, *A. Barts* v. *E. Spires et al.*

1,983,430, C. S. Ashcraft, Electric arc and method of producing same, appeal filed June 3, 1939, C C. A., 4th Cir., Doc. 4504, *M. G. Ashcraft* v. *National Theatre Supply Co. et al.*

1,993,581. (See 1,492,972.) 1,997,890. (See 1,952,230.)

1,997,891. (See 1,952,230.) 1,997,892. (See 1,952,230.)

1,998,878, T. E. Lefort, Process for the production of ethylene oxide, D. C. Md., Doc. 183, *Carbide & Carbon Chemicals Corp.* v. *U. S. Industrial Alcohol Co.* Stipulation of counsel dismissing complaint without prejudice May 9, 1939.

2,007,231. (See 1,952,230.) 2,007,232. (See 1,952,230.)

2,013,918, T. J. Kelleher, Lifting jack, D. C., N. D. Ohio, W. Div., Doc. 4298, *Ryerson & Haynes, Inc., et al.* v. *The Logan Gear Co.* Consent decree finding patent valid and infringed, injunction June 3, 1939.

2,024,256. (See 1,952,230.) 2,051,430. (See 1,952,230.)

2,072,075, Travers & Morris, Folding chair, D. C., Md., Doc. E 2508, *Mahoney Chair Co.* v. *Hochaschild Kohn & Co.* Dismissed for want of prosecution May 15, 1939.

2,110,118, Robertson & Staples, Fabric and method of and apparatus for treating same, D. C., S. D. N. Y., Doc. E 87/279, *Mount Hope Finishing Co.* v. *Rhode Island Mills, Inc.* Consent decree of dismissal (notice June 2, 1939).

2,111,405, L. F. Parker, Power-mucking shield, filed June 9, 1939, D. C., E. D. N. Y., Doc. 433, *L. F. Parker* v. *Walsh Construction Co.*

2,118,468, T. G. Jungersen, Method of casting articles of intricate design and product thereof, filed May 24, 1939, D. C. Md., Doc. 216, *T. G. Jungersen* v. *H. O. Jenkins (Jenkins Jewelry Mfg. Co.)*.

2,121,566, G. Leray, High intensity reflector, suit for reconveyance of patent to inventor, filed June 7, 1939, D. C., S. D. N. Y., Doc. 4/140, *G. Leray* v. *Y. de Villers et al.*

2,136,481, F. H. Young, Process of obtaining vitamin-containing oils, filed June 2, 1939, D C., W. D. Wash. (Seattle), Doc. 70, *Abbott Laboratories* v. *L. E. Branchflower et al.*

2,151,907, L. R. Fink, Film processing device, filed June 8, 1939, D. C., E. D. N. Y., Doc. 423, *Fink Roselieve Co., Inc.*, v. *Sears, Roebuck & Co., Inc.*

2,157,449, M. Berg, Insect exterminator, filed June 5, 1939, D. C. Nebr. (Lincoln), Doc. 29, *M. Berg.* v. *F. Jay.*

Re. 17,131 (of 1,668,490), O. S. Caesar, Heating apparatus for automotive vehicles, appeal filed May 31, 1939, C. C. A., 10th Cir., Doc. 1905, *Tropic-Aire, Inc.*, v. *Cullen-Thompson Motor Co.*

Re. 19,141, L. Larsen, Spring base furniture, filed May 22, 1939, D. C., S. D. Ind. (Indianapolis), Doc. 111, *Heywood Wakefield Co.* v. *Durham Mfg. Co.*

Re. 19,985. (See 1,952,230.)

Re. 20,205, L. W. Emerson, Folding chair, D. C. Md., Doc. E 2507, *L. W. Emerson et al.* v. *Hochschild, Kohn & Co.* Dismissed for want of prosecution May 15, 1939.

Re. 20,372, A. Lorenz, Sitting and resting furniture, filed May 22, 1939, D. C., S. D. Ind. (Indianapolis), Doc. 110, *Heywood-Wakefield Co. et al.* v. *Durham Mfg. Co.*

Des. 82,006, C. L. Stange, Emblem, filed June 7, 1939, D. C. Mass., Doc. 286, *W. M. Sexson et al.* v. *W. I. Cowlisham, Inc., et al.*

Des. 101,402, A. A. Rose, Display case, D. C., S. D. N. Y., Doc. 2/9, *S. Bloomfield et al.* v. *Measuring Device Corp.* Dismissed without prejudice (notice June 3, 1939).

Des. 104,603, R. T. Russell, Textile fabric, filed June 1, 1939, D. C., S. D. N. Y., Doc. 4/94, *M. Oltarsh et al.* v. *Goodyear Fabrics Corp.*

Des. 106,432, B. Edson, Lace, D. C., S. D. N. Y., Doc. E 86/337, *New England Lace Mills, Inc.*, v. *American Textile Co., Inc.* Dismissed (notice June 8, 1939).

Des. 108,274, A. H. Wolsfield, Combined clock face and metronome, D. C., S. D. N. Y., Doc. E 86/354, *A. E. Wolsfield et al.* v. *Warner Bros. Pictures, Inc., et al.* Consent decree for plaintiff (notice June 3, 1939).

Des. 109,341, H. T. Roberts, Cabinet for phonograph, D. C., N. D. Calif. (San Francisco), Doc. E 4274–R, *J. P.*

Seeburg Corp. v. *W. Corcoran.* Bill and cross-bill of plaintiff, set-off and counterclaim of defendant, dismissed with prejudice May 26, 1939.

Des. 114,284, D. Klein, Dress ensemble, filed June 2, 1939, D. C., S. D. N. Y., Doc. 4/108, *Bachman-Klein, Inc.,* v. *B. Berman* (*Harlene Frocks*).

Des. 114,767, F. B. Robb, Combination box and play board, filed June 7, 1939, D. C., E. D. N. Y., Doc. 418, *F. B. Robb et al.* v. *A. Wein et al.*

T. M. 358,242, Rio Grande Valley Citrus Exchange, Canned citrus fruit and fruit juices, D. C., S. D. Tex. (Brownsville), Doc. 39C A, *Rio Grande Valley Citrus Exchange* v. *W. C. Bohannon et al.* Injunction (notice May 12, 1939).

Notices of Cancellation

U. S. PATENT OFFICE, *Washington, D. C., Aug. 4, 1939.*

The Don-O-Lac Co. Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of O-Cedar Corp'n., 4501 South Western Avenue, Chicago, Ill., to effect the cancellation of trade-mark registration No. 213,409, issued May 25, 1926, to The Don-O-Lac Co. Inc., 770 Exchange Street, Rochester, N. Y., and a notice of such proceeding sent by registered mail to said The Don-O-Lac Co. Inc. at said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Don-O-Lac Co. Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, D. C., Aug. 4, 1939.*

The Thompson-Denton Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of O-Cedar Corp'n., 4501 South Western Avenue, Chicago, Ill., to effect the cancellation of trade-mark registration No. 147,523, issued October 18, 1921, to The Thompson-Denton Co., 2934 First Avenue, Seattle, Wash., and a notice of such proceeding sent by registered mail to said The Thompson-Denton Co. at said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Thompson-Denton Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. PATENT OFFICE, *Washington, D. C., Aug. 8, 1939.*

Samuel S. Klein, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Caron Corporation, 389 Fifth Avenue, New York, N. Y., to effect the cancellation of trade-mark registration No. 300,904, issued February 14, 1933, to Samuel S. Klein, 1274 Fifty-sixth Street, Brooklyn, N. Y., and a notice of such proceeding sent by registered mail to said Klein at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Samuel S. Klein, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the OFFICIAL GAZETTE for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 22, 1939

[VOL. 505. No. 4]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 420,012. MITSUBISHI SHOJI KAISHA LTD., Tokyo, Japan, and New York, N. Y. Filed May 31, 1939.



For Raw Silk.
Claims use since Sept. 5, 1918.

Ser. No. 420,016. MITSUBISHI SHOJI KAISHA LTD., Tokyo, Japan, and New York, N. Y. Filed May 31, 1939.

Three Diamonds

For Raw Silk.
Claims use since Aug. 31, 1929.

Ser. No. 420,497. PETER PATTERER, INC., Battle Creek, Mich. Filed June 14, 1939.



No claim is made to the word "Peat" apart from the mark.
For Peat.
Claims use since Mar. 12, 1936.

CLASS 2

Receptacles

Ser. No. 403,124. FLIP-TOP, LTD., New York, N. Y. Filed Feb. 17, 1938.

FLIP-TOP

For Fabric Bag-Like Receptacles—Namely, Shoe Bags.
Claims use since Feb. 4, 1938.

Ser. No. 415,954. MENASHA PRODUCTS COMPANY, Menasha, Wis. Filed Feb. 11, 1939.



The words "Menasha" and "Square Pak" are disclaimed apart from the mark.
For Paper Cartons.
Claims use since Oct. 14, 1938.

Ser. No. 418,244. HYGIENIC TUBE & CONTAINER CORPORATION, Newark, N. J. Filed Apr. 14, 1939.

CELLUPLASTIC

For Cellulose Acetate, Cellulose Nitrate, and Cellulose Acetate Stearate Products—Namely, Containers in Tube-like Formation, Cylindrical and Odd Shaped Cans, Collapsible Tubes, Vials, and Bottles.
Claims use since Oct. 15, 1938.

Ser. No. 421,628. ALADDIN INDUSTRIES INCORPORATED, Alexandria, Ind., and Chicago, Ill. Filed July 17, 1939.

HY-LO

For Vacuum Bottles and Heat Insulated Receptacles—Namely, Heat Insulated Jugs, Portable Heat Insulated Food Containers, and Portable Heat Insulated Beverage Containers.
Claims use since Apr. 17, 1939.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 419,960. ELCO MANUFACTURING CO., New York, N. Y. Filed May 29, 1939.



For Wallets, Key-Cases, Coin Purses, Letter Cases, Fitted Dressing Cases.
Claims use since Mar. 2, 1939.

Ser. No. 420,859. HARTMANN TRUNK COMPANY, Racine, Wis. Filed June 23, 1939.

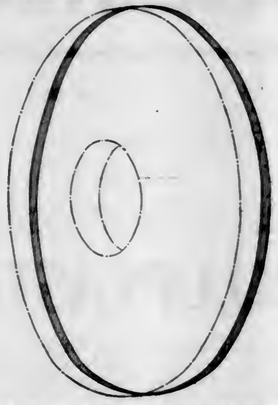
VANITY FAIR

For Suitcases and Wardrobe Hand Luggage.
Claims use since Dec. 7, 1938.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 404,211. GARDNER MACHINE COMPANY, South Beloit, Ill. Filed Mar. 18, 1938.



Trade-mark is in the form of a red stripe or band which is applied to the rims or outer peripheries of the abrasive wheels and disks. The illustration of the goods forms no part of the mark.
For Abrasive Wheels and Abrasive Disks.
Claims use since February, 1931.

Ser. No. 418,812. BRILLO MANUFACTURING COMPANY, INC., New York, N. Y. Filed Apr. 28, 1939.



No claim is made to the representation of the carton and the representation of the scouring pads apart from the mark as shown on the drawing, and no claim is made to the words "Soap Pads" apart from the word "Brillo" and apart from the other features of the mark as shown in the drawing, and applicant waives none of its common law rights in said mark or any features thereof.
For Soaps, Cleaning, Scouring, and Polishing Wads, Pads, Rolls, and Cloths of Abradent Nature for Removing Foreign Matter from Metal and Other Surfaces.
Claims use since Mar. 23, 1938.

Ser. No. 419,563. STEELBLAST ABRASIVES COMPANY, Cleveland, Ohio. Filed May 18, 1939.

Wheelabrasive

Applicant disclaims the word "Wheelabrasive" apart from the mark.
For Loose Abrasive Materials in the Form of Steel Grit and Steel Shot.
Claims use since May 5, 1939.

Ser. No. 419,957. FRANKLIN J. DRIVNESS, doing business as Franklin Chemical Co., Rochester, N. Y. Filed May 29, 1939.

TRAG

For Alkalin Powdered Cleaner and Cleanser for Laundry and Industrial Use Having Incidental Water Softening Properties.
Claims use since May 12, 1939.

Ser. No. 420,365. FELS & COMPANY, Philadelphia, Pa. Filed June 10, 1939.

HUSKIER

For Soap Chips.
Claims use since May 22, 1939.

Ser. No. 420,870. NAYLEE CHEMICAL COMPANY, Philadelphia, Pa. Filed June 23, 1939.

NALO

For Granular Cleaner To Be Placed in the Wash Water for Washing Glassware, Silverware, and Dishes.
Claims use since June 20, 1939.

CLASS 5

Adhesives

Ser. No. 418,148. HASCO PRODUCTS LIMITED, New Westminster, British Columbia, Canada. Filed Apr. 12, 1939.

"HASCO"

For Marine Glue.
Claims use since June 1, 1935.

CLASS 6

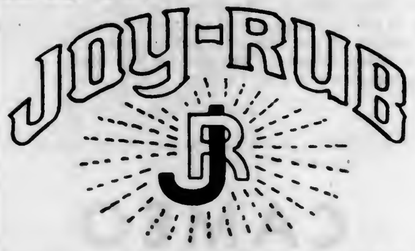
Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 407,395. THE TAYLOR CHEMICAL COMPANY, Hollywood, Los Angeles, Calif. Filed June 11, 1938.

Nailflex

For Chemical Composition for Treatment of Brittle Nails.
Claims use since Apr. 4, 1938.

Ser. No. 409,529. THEODORE C. JOYCE, Everett, Mass. Filed Aug. 12, 1938.



No claim is made to the word "Rub" apart from the mark.
For Rubbing Liniment.
Claims use since Apr. 15, 1938.

Ser. No. 410,996. CHARLES H. KNORR, doing business as Bolux Laboratories, St. Louis, Mo. Filed Sept. 26, 1938.



For Acid Solution for Removing Stains from Toilet Bowls.
Claims use since Mar. 13, 1935.

Ser. No. 412,047. DELOR LABORATORIES, Louisville, Ky. Filed Oct. 26, 1938.



No claim is made to the term "White" apart from the mark.
For Cough Preparation.
Claims use since Sept. 28, 1937.

Ser. No. 415,027. AMERICAN EXTRACT COMPANY, Port Allegany, Pa. Filed Jan. 20, 1939.

DERMABATE

For Solution Used in the Treatment of Hides.
Claims use since June 14, 1932.

Ser. No. 415,343. A. M. MEINCKE & SON, INC., Chicago, Ill. Filed Jan. 28, 1939.

FLEX

For Powdered Material for Use in Making, Coating, Filling, or Treating Paper.
Claims use since Dec. 13, 1938.

Ser. No. 416,618. PEGGY SAGE, INC., New York, N. Y. Filed Mar. 2, 1939.

NAIL-FLEX

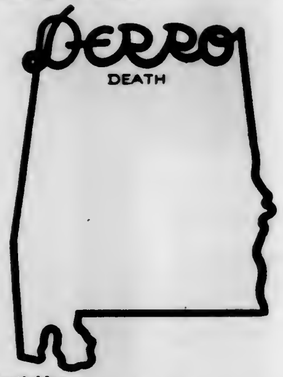
For Nail Polish in Liquid, Cream, Powder, Cake, and Paste Form, Nail Polish Remover in Liquid and Cream Form, Nail Enamel, Nail Tint, Nail Rouge, Nail White, Nail Bleach, Nail Lotion and Nail Cream, Cuticle Remover, Cuticle Cream, Cuticle Oil, Cuticle Salve.
Claims use since July 26, 1938.

Ser. No. 417,275. CHARLES E. FROSST & COMPANY, Montreal, Quebec, Canada. Filed Mar. 20, 1939.

N.C.F

For Therapeutic Tonic and Medicinal Food Used as a Vitamin and Mineral Food Supplement for the Prevention of Deficiency Diseases.
Claims use since Mar. 1, 1934.

Ser. No. 418,179. ALABAMA INSECTICIDE CO., Gadsden, Ala. Filed Apr. 13, 1939.



For Insecticides.
Claims use since Feb. 1, 1939.

Ser. No. 418,316. FRANK J. SOWA, doing business as Silbrite Chemical Co., New York, N. Y. Filed Apr. 15, 1939.



For Silver and Metal Tarnish Preventing Fluid.
Claims use since September, 1938.

Ser. No. 418,362. J. W. QUINN DRUG CO., doing business as Midwest Laboratories, Greenwood, Miss. Filed Apr. 17, 1939.



No claim is made to the outline of the label, the prescription symbol, and the term "Drug Stores". The drawing is lined for orange, brown, and tan.
For Epsom Salt.
Claims use since January, 1935.

Ser. No. 418,639. HERE-IS LABORATORY, Kansas City, Mo. Filed Apr. 24, 1939.

HERE-IS

For Hand Lotion.
Claims use since Apr. 1, 1939.

Ser. No. 418,802. WALTER AMICK, Seattle, Wash. Filed Apr. 28, 1939.



Applicant disclaims the word "Amick's".
For Ointments for the Skin, the Specific Medicinal Uses of the Ointment Being for Treatment of Affections or Diseases of the Skin, Particularly Foot Fungus Commonly Called Athlete's Foot, and for Impetigo.
Claims use since Apr. 14, 1939.

Ser. No. 418,833. HERZ LABORATORIES, INC., New York, N. Y. Filed Apr. 28, 1939.

CAMEO

For Medicinal Tablets Used Particularly to Aid in the Relief of Functional Menstrual Pains.
Claims use since Apr. 17, 1939.

Ser. No. 418,923. GIVOL CHEMICAL CO., Chicago, Ill. Filed May 1, 1939.

GIVOL

For Stomach Antacid Preparation and a Digestion Aid.
Claims use since Mar. 1, 1939.

Ser. No. 419,184. DOLS VOLATALISE FLANNEL, LIMITED, Huddersfield and London, England. Filed May 8, 1939.



For Medicated Flannel for the Treatment of Rheumatism, Neuritis, Sciatica, Lumbago, Bronchitis, and Cold Feet.
Claims use since Feb. 25, 1931.

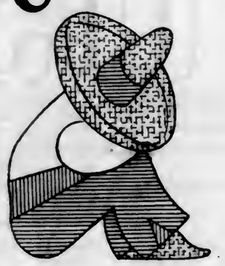
Ser. No. 419,213. ROY E. SWARTZ, doing business as Aerolene Sales Co., Los Angeles, Calif. Filed May 8, 1939.



The words "The Motor Oil Purifier" are disclaimed apart from the mark.
For Nonacid Motor Oil Purifier.
Claims use since Nov. 28, 1935.

Ser. No. 419,312. ROSS & ROWE, INC., doing business as Ross & Rowe Laboratories, New York, N. Y. Filed May 11, 1939.

Sombrero



The drawing is lined for red, blue, and yellow.
For Sun Tan Lotion.
Claims use since Apr. 22, 1939.

Ser. No. 419,382. LUCIEN LELONG, INC., Chicago, Ill. Filed May 13, 1939.

JABOT

For Perfume and Cologne.
Claims use since May 2, 1939.

Ser. No. 419,526. JOHN R. RICHARDS, doing business as Continental Chemical and Color Co., Chicago, Ill. Filed May 17, 1939.

SKAL-SKAT

Applicant disclaims the exclusive use of "Skal" per se and apart from the mark.
For Compound for Preventing Formation of Scale in Boilers, Other Heating Units and Heating Systems, and for Elimination of Scale Therefrom.
Claims use since Feb. 3, 1939.

Ser. No. 419,534. ANDREW R. WARREN, Oklahoma City, Okla. Filed May 17, 1939.

RED DOT

The drawing is lined for red.
For Lotion for Use in the Treatment of Athlete's Foot.
Claims use since Feb. 4, 1939.

Ser. No. 419,606. CECIL L. BELL, doing business as Elkhart Pharmacal Company, Elkhart, Ind. Filed May 20, 1939.

363

For Proprietary Medicines, Particularly Laxative Cold Tablets for Common Colds and Simple Headaches and a Preparation of White Pine and Tar Expectorant (Mentholated) for Cough and Throat Irritations Resulting from Colds.

Claims use since September, 1930.

Ser. No. 419,784. XTERMINATOR PRODUCTS CORPORATION, Jersey City, N. J. Filed May 24, 1939.



The words "Xterminator" and "The Professional Killer" are disclaimed apart from the mark. The drawing is lined for green.

For Insecticides.

Claims use since Feb. 1, 1939.

Ser. No. 419,802. GUERLAIN PERFUMERY CORPORATION OF DELAWARE, Wilmington, Del., and New York, N. Y. Filed May 25, 1939.

BEAUTY HAZE

The word "Beauty" is disclaimed apart from the mark.

For Face Powder.

Claims use since May 3, 1939.

Ser. No. 420,020. ORELIA D. C. MARCONI, New York, N. Y. Filed May 31, 1939.

MARCONI'S

MIRACLE DISCOVERY

No claim is made to the term "Marconi's" apart from the mark.

For Hair Tonic and Preparations for the Hair and Scalp.

Claims use since May 29, 1939.

Ser. No. 420,345. FREDERICK STEARNS & COMPANY, Detroit, Mich. Filed June 9, 1939.

ACEBENIDE

For Analgesic Tablets.

Claims use since May 19, 1939.

Ser. No. 420,458. KARLSRUHER PARFÜMERIE- & TOILETTE-SEIFEN-FABRIK, F. WOLFF & SOHN, GESELLSCHAFT MIT BESCHRÄNKTER HAFTUNG, Karlsruhe, Germany. Filed June 13, 1939.

AUXOL

For Hair Tonic.

Claims use since Nov. 14, 1938.

Ser. No. 420,493. MCNEIL LABORATORIES, INCORPORATED, Philadelphia, Pa. Filed June 14, 1939.

Engestic

For Medicinal Capsules and Tablets Used in the Treatment of Irritations of the Liver and Gall Bladder.

Claims use since Sept. 15, 1936.

Ser. No. 420,575. THE DOHO CHEMICAL CORPORATION, New York, N. Y. Filed June 16, 1939.



The words "New York, N. Y.", and "Keep Well Closed—Do Not Rinse Dropper" are disclaimed apart from the mark.

For Osmotherapeutic Treatment of Ear Diseases—Ear Drops.

Claims use since Apr. 15, 1938.

Ser. No. 420,610. JEANNETTE GLUCK, New York, N. Y. Filed June 16, 1939.

DeeléroN

For Preparation for Prolonging the Life of Silk Hosiery and the Like.

Claims use since Apr. 10, 1939.

Ser. No. 420,869. LINO MANZONI, doing business as Linol Herbal Products, New York, N. Y. Filed June 23, 1939.

DRUM-LIN

For Antiseptic Astringent and Tonic for the Skin.

Claims use since June 10, 1939.

Ser. No. 421,032. ADELL FELIX, New York, N. Y. Filed June 28, 1939.



No claim is made to the words "Beauty Products" apart from the mark. The woman's head is fanciful.

For Beauty Preparations—Namely, Lipsticks, Face Powder, Rouge, Cleansing Cream, Hair Lotions, and Hair Oil.

Claims use since May 22, 1939.

Ser. No. 421,324. SCHERING CORPORATION, Bloomfield, N. J. Filed July 6, 1939.

PRAXONE

For Medicinal Preparation Recommended Primarily in Case of Hormone Deficiency in Female Sex Cycle.

Claims use since June 27, 1939.

Ser. No. 421,437. PARKE, DAVIS & COMPANY, Detroit, Mich. Filed July 10, 1939.

EPAMIN

For Preparation for Treatment of Spasmodic and Convulsive Conditions.

Claims use since Feb. 8, 1939.

Ser. No. 421,452. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J. Filed July 11, 1939.

CUE

For Liquid Dentifrice.

Claims use since June 30, 1939.

CLASS 10

Fertilizers

Ser. No. 419,058. ELLIS LABORATORIES, INC., Montclair, N. J. Filed May 3, 1939.

PLANTET

For Fertilizer.

Claims use since Sept. 29, 1938.

Ser. No. 420,164. THE CHICAGROW CORPORATION, Chicago, Ill. Filed June 5, 1939.

CHICAGROW

For Fertilizer.

Claims use since May 31, 1939.

CLASS 11

Inks and Inking Materials

Ser. No. 420,110. OLD TOWN RIBBON & CARBON CO. INC., New York, N. Y. Filed June 2, 1939.

Sable



For Carbon Paper and Typewriter Ribbons.

Claims use since May 16, 1939.

CLASS 12

Construction Materials

Ser. No. 401,067. MASTIC ASPHALT CORPORATION, South Bend, Ind. Filed Dec. 20, 1937.

CELOBRIC

For Weatherproofed Building Siding Material Formed from Composition Board Coated with Asphalt and Grits.

Claims use since Dec. 10, 1937.

Ser. No. 401,337. COLD SPRING GRANITE COMPANY, Cold Spring, Minn. Filed Dec. 29, 1937.

PEARL

For Building Stone and Cut Granite.

Claims use since Mar. 1, 1921.

Ser. No. 405,905. THE WOOD PRESERVING CORPORATION, Pittsburgh, Pa. Filed Apr. 30, 1938.

AR-MORED TREATED TIES

Applicant disclaims the representation of the metal-faced treated ties and the words "Treated Ties" apart from the mark as a whole.

For Metal-Faced Wood Track-Rail Ties, the Wood Being Preferably Treated with a Preservative.

Claims use since Jan. 3, 1938.

Ser. No. 408,358. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed July 9, 1938.

BRIDJOINT

For Metallic Clips for Attaching Building Boards and Used in Walls and Ceilings.
Claims use since December, 1937.

Ser. No. 412,740. UNITED STATES GYPSUM COMPANY, Chicago, Ill. Filed Nov. 14, 1938.

QUIETONE

For Acoustical Fibre Board.
Claims use since September, 1938.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 420,378. MACHLANBURG-DUNCAN COMPANY, Oklahoma City, Okla. Filed June 10, 1939.

Nu-ART

For Metal Moulding Strips for General Use.
Claims use since July 1, 1932.

CLASS 15

Oils and Greases

Ser. No. 406,952. THE UNIVERSAL MOTOR OILS COMPANY, Wichita, Kans. Filed May 31, 1938.

Strat-o-flo

For Lubricating Motor Oils and Greases.
Claims use since Apr. 25, 1938.

Ser. No. 417,778. RICHARD D. PELICANO, Washington, D. C. Filed Apr. 1, 1939.

UNI-PEP

No claim is made to the word "Pep" apart from the mark.
For Gasoline, Lubricating Oils, and Lubricating Greases.
Claims use since Nov. 15, 1938.

Ser. No. 418,992. TALCO ASPHALT AND REFINING COMPANY, Mount Pleasant, Tex. Filed May 2, 1939.

TALCOLENE

For Gasoline.
Claims use since Mar. 3, 1939.

CLASS 16

Paints and Painters' Materials

Ser. No. 387,911. MAGIC CHEMICAL COMPANY, Salt Lake City, Utah. Filed Jan. 18, 1937.



For Wax Polishes in Paste, Granular, Cream and Liquid Forms; Furniture Polishes in Cream and Liquid Form; Combined Cleaner and Polish for Automobiles; Oil Which Cleans and Polishes Automobiles, Furniture, and the Like in One Operation; Floor Dressing for Sealing, Cleaning and Polishing.
Claims use since May 12, 1931.

Ser. No. 414,014. SOCIETY OF CHEMICAL INDUSTRY IN BASLE, Basel, Switzerland. Filed Dec. 19, 1938.

MELOPAL

For Lacquers and Varnishes Made from Synthetic Resins.
Claims use since Sept. 26, 1938.

Ser. No. 419,375. GRAND RAPIDS VARNISH CORPORATION, Grand Rapids, Mich. Filed May 13, 1939.

SPAT-TEX

For Material Composed of Rubber and Synthetic Resins which, when Sprayed, Produces a Finish or Coating of Unusual Texture and Irregularity and which is Used wherever Paints or Varnishes Could Be Used.
Claims use since Apr. 11, 1939.

Ser. No. 420,148. SOCONY-VACUUM OIL COMPANY, INCORPORATED, New York, N. Y. Filed June 3, 1939.

PRIMASEAL

For Floor Primer and Sealer.
Claims use since May 17, 1939.

Ser. No. 420,709. ALUMILEAF COMPANY, Los Angeles, Calif. Filed June 20, 1939.

ALUMILEAF

For Stabilizer for Aluminum Paste, Powder, or Paint.
Claims use since June 2, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 410,685. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed Sept. 17, 1938.

Table Butler

The term "Table" is disclaimed apart from the mark.
For Electrical Food Warmers.
Claims use since Aug. 29, 1938.

Ser. No. 411,854. CIRCULATORS & DEVICES MFG. CORP., New York, N. Y. Filed Oct. 21, 1938.

FRIGID
AIR CIRCULATOR

Applicant disclaims the words "Air Circulator."
For Electrical Air Circulatory Fans.
Claims use since June 1, 1938.

Ser. No. 413,231. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Nov. 28, 1938.

"Super-age"

For Rubber-Covered Electric Conductors and Cables.
Claims use since Nov. 5, 1935.

Ser. No. 413,232. NATIONAL ELECTRIC PRODUCTS CORPORATION, Pittsburgh, Pa. Filed Nov. 28, 1938.



The trade-mark consists essentially of a series of spots printed on the insulation of an electrical conductor or cable, and equi-distantly spaced longitudinally of the electrical conductor or cable. The representation of an electrical conductor shown in the accompanying drawing is hereby disclaimed apart from the distinctive features of the trade-mark carried thereby.
For Insulated Electrical Conductors and Cables.
Claims use since Apr. 1, 1937.

Ser. No. 414,806. WARN-O-LITE COMPANY, Los Angeles, Calif. Filed Jan. 13, 1939.

WARN-O-LITE

The words "Warn" and "Lite" are disclaimed aside from the mark.
For Manual and Automatic Controls for Signal Lights for Vehicles and for Machinery Generally.
Claims use since Sept. 7, 1937.

Ser. No. 419,402. THE TRUMBULL ELECTRIC MANUFACTURING COMPANY, Plainville, Conn. Filed May 13, 1939.

SWING - WA

For Electric Switches, Electric Panelboards, and Parts Thereof.
Claims use since Jan. 3, 1939.

Ser. No. 420,865. KEASBEY & MATTISON COMPANY, Ambler, Pa. Filed June 23, 1939.

"Century"

For Asbestos Cement Conduit and Duct and Asbestos Cement Couplings and Fittings Used in Connection with Conduit and Duct for Use in Electrical Wiring and Cable Installations.
Claims use since June 6, 1938.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 415,673. SPECIALTY PRODUCTS COMPANY, Ottumwa, Iowa. Filed Feb. 6, 1939.

"MONKEY BUSINESS"

For Board Games Played with Movable Pieces.
Claims use since June, 1937.

Ser. No. 418,408. MARVIN K. HEDGE, Portland, Oreg. Filed Apr. 18, 1939.



The drawing is lined for green, black, and gold. The portrait is that of applicant. No claim is made to the word "Taper" or to the outline of the label apart from the mark.

For Fishing Tackle and Accessories—Namely, Lines, Rods, Reels, Flies, Leaders, Handles, Thumb Rests, Hooks, Plugs, Lures, Bait, Landing Nets, Gaff Hooks, Line Dressing, Fly Oil, Sinkers, and Creels.
Claims use since March, 1935.

Ser. No. 419,937. RICHARD PALTRIDGE, JR., Chicago, Ill. Filed May 27, 1939.



No claim is made to the use of a target device apart from the mark.
For Paddle and Ball Game.
Claims use since Apr. 1, 1938.

Ser. No. 420,533. JOHN H. KEENEY, doing business as J. H. Keeney & Company, Chicago, Ill. Filed June 15, 1939.

TRACK TIME

For Game Boards.
Claims use since May 10, 1939.

Ser. No. 420,607. UGOA GAME CO., Los Angeles, Calif. Filed June 16, 1939.

DARBYDICE

For Horse-Racing Game Played on an Oval Track Marked off Into Blocks and Lanes, Miniature Horses Being Moved According to Points Scored by Throwing Dice.
Claims use since June 1, 1939.

Ser. No. 421,328. THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 6, 1939.

VIKING

For Playing Cards.
Claims use since February, 1930.

Ser. No. 421,403. THE UNITED STATES PLAYING CARD COMPANY, Cincinnati, Ohio. Filed July 8, 1939.

VANITY FAIR

For Playing Cards.
Claims use since Sept. 10, 1895.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 407,749. DIF CORPORATION, Garwood, N. J. Filed June 22, 1938.

IT'S DIFFERENT
DIF

Applicant disclaims the words "It's Different".
For Razor Blades.
Claims use since Dec. 9, 1937.

Ser. No. 417,614. GRO-LUX, INC., Minneapolis, Minn. Filed Mar. 29, 1939.

GRO-LUX

For Container-Injector for Use in a Hose or Similar Line, to Dissolve Fertilizer, Injected into the Water Stream and Thus Apply it to the Earth.
Claims use since May 10, 1933.

Ser. No. 419,410. ALABAMA APPLIANCE COMPANY, INC., doing business as Alabama Manufacturing Company, Birmingham, Ala. Filed May 15, 1939.

GEM DANDY

For Electric Churn.
Claims use since Apr. 28, 1938.

Ser. No. 419,513. HILL & MCLAUGHLIN, INC., Minneapolis, Minn. Filed May 17, 1939.

BLUE JAY

For Razor Blades.
Claims use since Feb. 21, 1933.

Ser. No. 419,733. REMINGTON RAND INC., Buffalo, N. Y. Filed May 23, 1939.

BANTAM

For Typewriters.
Claims use since Apr. 7, 1938.

CLASS 24

Laundry Appliances and Machines

Ser. No. 421,446. BERST-FORSTER-DIXFIELD COMPANY, Dixfield, Maine, and New York, N. Y. Filed July 11, 1939.



For Clothespins.
Claims use since Mar. 21, 1939.

CLASS 26

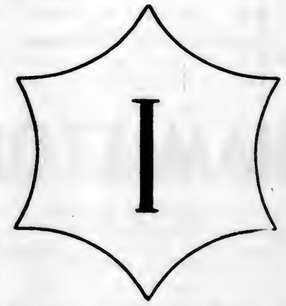
Measuring and Scientific Appliances

Ser. No. 415,063. J. L. J. VALETTE & CIE, Paris, France. Filed Jan. 20, 1939.

IRIS

Applicant is owner of U. S. trade-mark registration Ct. #38,463, issued June 17, 1902, and renewed.
For Field, Marine, and Opera Glasses.
Claims use since Dec. 2, 1901.

Ser. No. 415,064. J. L. J. VALETTE & CIE, Paris, France. Filed Jan. 20, 1939.



Applicant is owner of U. S. trade-mark Ct. #38,463, issued June 17, 1902, and renewed.
For Field, Marine, and Opera Glasses.
Claims use since May 7, 1920.

Ser. No. 419,319. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed May 11, 1939.

COMET

For Cameras.
Claims use since Mar. 27, 1939.

Ser. No. 419,352. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed May 12, 1939.

METEOR

For Cameras.
Claims use since Mar. 27, 1939.

Ser. No. 419,353. UNIVERSAL CAMERA CORPORATION, New York, N. Y. Filed May 12, 1939.

ZENITH

For Cameras.
Claims use since Mar. 27, 1939.

Ser. No. 420,916. ALTINA SANDERS, New York, N. Y. Filed June 24, 1939.

HARLEQUIN

For Ophthalmic Mountings and Lenses and Parts Thereof.
Claims use since June 8, 1939.

CLASS 27

Horological Instruments

Ser. No. 419,063. ABERCROMBIE & FITCH COMPANY, New York, N. Y. Filed May 4, 1939.

SHIPMATE

For Watches.
Claims use since Nov. 30, 1931.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 395,037. HAMILTON WATCH COMPANY, Lancaster, Pa. Filed July 9, 1937. Under section 5b of the act of 1905 as amended in 1920.

HAMILTON

Applicant is the owner of Reg. No. 203,657.
For Bracelets, Bands, Chains, Fasteners, Buckles, Clasps, Hasps, Clips, Fittings, and Keepers, All in the Nature of Jewelry or Made in Whole or in Part of Precious Metal or Plated with the Same.
Claims use since Aug. 20, 1914.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 403,074. COLUMBIA PRODUCTS CORPORATION, New York, N. Y. Filed Feb. 16, 1938.



For Powder Puffs.
Claims use since Mar. 10, 1937.

CLASS 31

Filters and Refrigerators

Ser. No. 411,186. SERV-ICED MFG. CO., Los Angeles, Calif. Filed Oct. 1, 1938.

SERV-ICED

For Beverage Cooler and Dispenser.
Claims use since Aug. 9, 1938.

Ser. No. 420,340. THE C. SCHMIDT CO., Cincinnati, Ohio. Filed June 9, 1939.

HOL-DO

For Refrigerators and Refrigerated Display Cases.
Claims use since May 26, 1936.

CLASS 32

Furniture and Upholstery

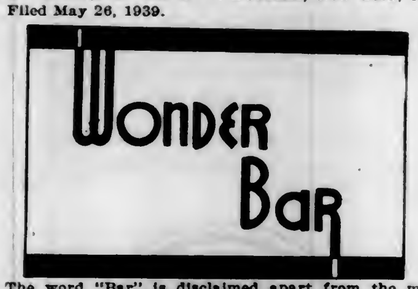
Ser. No. 419,663. GRAND RAPIDS STORE EQUIPMENT CO., Grand Rapids, Mich. Filed May 22, 1939.

BEAUTY

SPOT

For Display Cases.
Claims use since Apr. 1, 1939.

Ser. No. 419,861. DAVID W. DUNBERG, New York, N. Y. Filed May 26, 1939.



The word "Bar" is disclaimed apart from the mark.
For Miniature Refreshment Bars.
Claims use since January, 1939.

Ser. No. 419,890. STANDARD OIL COMPANY OF CALIFORNIA, Wilmington, Del., and San Francisco, Calif. Filed May 26, 1939.

LUBE-MERCHANT

For Merchandising Equipment Comprising Storage and Display Cabinets and Background Wall Panels.
Claims use since May 2, 1939.

Ser. No. 420,898. COTY, INC., New York, N. Y. Filed June 24, 1939.

CINEMAGNET

For Display Stands.
Claims use since June 15, 1939.

Ser. No. 420,899. COTY, INC., New York, N. Y. Filed June 24, 1939.

MAGNETIZOR

For Display Stands.
Claims use since June 15, 1939.

Ser. No. 420,900. COTY, INC., New York, N. Y. Filed June 24, 1939.

MAGNETOMIZER

For Display Stands.
Claims use since June 15, 1939.

Ser. No. 420,901. COTY, INC., New York, N. Y. Filed June 24, 1939.

PYLOSPHERE

For Display Stands.
Claims use since June 15, 1939.

Ser. No. 421,170. UNION ASBESTOS & RUBBER COMPANY, Chicago, Ill. Filed June 30, 1939.

ESPRO

For Steel Tables, Display Racks, and Cabinets.
Claims use since Apr. 15, 1939.

Ser. No. 421,228. E. I. DU PONT DE NEMOURS AND COMPANY, Wilmington, Del. Filed June 30, 1939. Under section 5b of the act of 1905 as amended in 1920.

DU PONT

For Hand Mirrors.
Claims use since August, 1927.

Ser. No. 421,274. FOSTER BROTHERS MANUFACTURING COMPANY, Utica, N. Y. Filed July 4, 1939.

Studiofa

For Sofa Beds and Studio Couches.
Claims use since Oct. 14, 1938.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 421,268. UNITED STATES RUBBER COMPANY, New York, N. Y. Filed July 3, 1939.

FARMWAY

For Rubber Inner Tubes for Tires.
Claims use since Mar. 18, 1939.

Ser. No. 421,514. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio. Filed July 13, 1939.

The GENERAL TIRE

Applicant disclaims the word "Tire" apart from the mark.
For Automobile Tires and Tubes.
Claims use since May 17, 1939.

CLASS 36

Musical Instruments and Supplies

Ser. No. 420,165. CHICAGO MUSICAL INSTRUMENT COMPANY, Chicago, Ill. Filed June 5, 1939.

COUTURIER

For Band Instruments and Wood-Wind Instruments—Namely, Cornets, Trumpets, Trombones, Altos, Melophones, Baritones, Tubas and Other Cupped Mouthpiece Brass Instruments, and Clarinets, Oboes, Bassoons, Flutes, and Piccolos.
Claims use since June 1, 1939.

CLASS 37

Paper and Stationery

Ser. No. 403,919. MOHAWK TABLET COMPANY, Chicago, Ill. Filed Mar. 10, 1938.



For Loose Leaf Fillers, Typewriting Paper and Stenographer's Note Books.
Claims use since June 1, 1937.

Ser. No. 420,187. SALES RESEARCH, INCORPORATED, Cleveland, Ohio. Filed June 5, 1939.

MILE-O-GRAPH

For Books of Blank Forms to be Filled in and Used for Sales Promotional Purposes.
Claims use since July 14, 1938.

Ser. No. 420,222. THE FAIR, Chicago, Ill. Filed June 6, 1939.

FAIRCREST

For Stationery—Namely, Writing Paper and Envelopes.
Claims use since Sept. 14, 1932.

Ser. No. 420,259. M. PICCIOTTO, INC., New York, N. Y. Filed June 7, 1939.

Papeteries Parisiennes Réunies

Applicant disclaims the words "Papeteries" and "Parisiennes" except as shown.
For Writing Paper, Envelopes, Correspondence Cards, and Greeting Cards.
Claims use since Apr. 17, 1939.

CLASS 38

Prints and Publications

Ser. No. 405,655. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

USED·CAR·AGE

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 405,656. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

THE USED CAR

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 405,657. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

The Used Car Dealer

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 405,658. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

USED CAR DIGEST

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 405,659. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

The Used Car Journal

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 405,660. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

The Used Car Merchandiser

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 405,661. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

The Used Car News

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 405,662. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

The Used Car Service Field

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 405,664. THE PERFECT CIRCLE COMPANY, Hagerstown, Ind. Filed Apr. 23, 1938.

The Used Car Trade

For Trade Publication Issued at Irregular Intervals for the Dissemination of Information of Interest to the Automotive Trade.
Claims use since Mar. 1, 1938.

Ser. No. 416,713. PAUL L. CORNELL, doing business as The Road Ahead Publishing Co., Washington, Conn. Filed Mar. 3, 1939.

The Road Ahead

For Periodical Magazine.
Claims use since Jan. 24, 1939.

Ser. No. 420,111. THE PHOTO-LITHOGRAPHER, INC., New York, N. Y. Filed June 2, 1939.

Modern LITHOGRAPHY

For Monthly Publication.
Claims use since May 16, 1939.

Ser. No. 420,157. THE UPCO PRESS PUBLISHING CO., Youngstown, Ohio. Filed June 3, 1939.

BUCKEYE TAVERN

Official Organ of the Buckeye Retail Liquor Dealers Association of Ohio, Inc.

The words "Official Organ of the Buckeye Retail Liquor Dealers Association of Ohio, Inc.", are disclaimed apart from the mark.
For Weekly Publication.
Claims use since May 3, 1938.

Ser. No. 420,275. BILBARA PUBLISHING CO., INC., New York, N. Y. Filed June 8, 1939.

Girls IN THE NEWS

For Periodical.
Claims use since June 1, 1939.

Ser. No. 420,400. CHICAGO ELECTRICAL NEWS, INC., Chicago, Ill. Filed June 12, 1939.

ELECTRICAL REPORTER and NEW PRODUCTS REVIEW

For Periodical Publication.
Claims use since June 9, 1939.

Ser. No. 420,450. CHICAGO TRIBUNE-NEW YORK NEWS SYNDICATE, INC., New York, N. Y. Filed June 13, 1939.

Our Neighbors The Ripples

For Series of Cartoons.
Claims use since May 28, 1939.

Ser. No. 420,495. FARM JOURNAL, INC., Philadelphia, Pa. Filed June 14, 1939.

FARM JOURNAL AND Farmer's Wife

For Monthly Publication.
Claims use since May 1, 1939.

Ser. No. 420,537. LUTHERAN HOME JOURNAL, Minneapolis, Minn. Filed June 15, 1939.

Lutheran HOME Journal

For Monthly Publication.
Claims use since Aug. 25, 1938.

Ser. No. 420,538. MCGRAW-HILL PUBLISHING COMPANY, INC., New York, N. Y. Filed June 15, 1939.

Photo Technique

For Periodical Published Monthly.
Claims use since June 1, 1939.

Ser. No. 421,013. TIME, INCORPORATED, New York, N. Y. Filed June 27, 1939.

LIFE

The drawing is lined for red.
For Weekly Magazine and for Pamphlets Containing Material Taken from Such Magazine.
Claims use since Apr. 26, 1937.

CLASS 39

Clothing

Ser. No. 408,095. G. FOX & CO. INC., Hartford, Conn. Filed July 1, 1938.

PARKWAY G. FOX & CO.

Applicant disclaims the term "G. Fox & Co." apart from the mark.
For Men's Clothing—Viz., Outer Shirts; Shoes Made

of Leather, or a Combination of Leather, Rubber, or Fabric; Slippers, Overshoes, and Galoshes; Boys' and Young Men's Clothing—Viz., Outer Shirts, Pajamas, Neckties, Sweaters, Athletic Shirts, Suspenders, and Union Suits.
Claims use since 1928.

Ser. No. 411,520. MARGIA KATHLEEN CHILDS, doing business as The Marja Brassiere Company, Jacksonville, Tex. Filed Oct. 12, 1938.

HI-A

For Brassières.
Claims use since Sept. 1, 1938.

Ser. No. 412,862. MERKEL & KIENLIN G. M. B. H., Esslingen, Germany. Filed Nov. 17, 1938.

Twilady

For Bonnets, Caps, Hoods, Hosiery, Bathing Suits, Vests, Sweaters, Jackets, Pullovers, and Knitted Suits for Men, Women, and Children; Dresses, Athletes' Robes, Sweat Shirts, Sweat Pants, Beach Suits, Beach Robes, and Gowns for Ladies, Misses, and Children; Underwear, Neckties, Shawls, Scarfs, Woolen Gloves, and Mittens for Men, Women, and Children.
Claims use since Jan. 15, 1938.

Ser. No. 415,490. AMERICAN HANDKERCHIEF CO., INC., New York, N. Y. Filed Feb. 2, 1939.



Applicant disclaims the right to the exclusive use of the word "American" except in the relation and association shown.
For Handkerchiefs.
Claims use since Aug. 26, 1937.

Ser. No. 415,942. GORDON & FERGUSON COMPANY, St. Paul, Minn. Filed Feb. 11, 1939.

Velvacalf

For Jackets, Coats, Vests, Blouses, Shirts, and Breeches for Men, Women, and Children.
Claims use since Jan. 21, 1939.

Ser. No. 415,943. GORDON & FERGUSON COMPANY, St. Paul, Minn. Filed Feb. 11, 1939.

VELVACOLT

For Leather Jackets, Coats, Vests, Blouses, Shirts, and Breeches for Men, Women, and Children.
Claims use since Jan. 6, 1939.

Ser. No. 415,944. GORDON & FERGUSON COMPANY, St. Paul, Minn. Filed Feb. 11, 1939.

Velvahorse

For Jackets, Coats, Vests, Blouses, Shirts, and Breeches for Men, Women, and Children.
Claims use since Jan. 21, 1939.

Ser. No. 416,735. MCLELLAN STORES COMPANY, New York, N. Y. Filed Mar. 6, 1939.

The Dapper

For Men's and Boys' Outer Shirts, Blouses, and Neckties.
Claims use since Sept. 1, 1938.

Ser. No. 417,372. INTERNATIONAL LATEX CORPORATION, Dover, Del. Filed Mar. 22, 1939.

PLAYTEX

For Baby Pants, Bathing Caps, Swim Suits, Gloves and Aprons, Capes, Bands, and Bandeaus for Personal Wear, All Made of Rubber.
Claims use since Feb. 11, 1935, on pants; since May 15, 1935, on caps; since Jan. 17, 1936, on swim suits; since Feb. 26, 1936, on aprons; since Apr. 8, 1937, on bands and bandeaus; and since Nov. 4, 1938, on capes and gloves.

Ser. No. 417,557. SMOOTH-FIT BRASSIERE CO., INC., New York, N. Y. Filed Mar. 27, 1939.

DARLEN

A YOUTHFUL FORM FITTING

No claim is made to the phrase "A Youthful Form Fitting" apart from the mark.
For Brassières, Girdles, and Slips.
Claims use since Nov. 1, 1938.

Ser. No. 418,102. GIMBEL BROTHERS, INC., New York, N. Y. Filed Apr. 11, 1939.

GIMBIE

For Boys', Infants', Tots' and Children's Apparel—Namely, Suits, Coats, Outer Shirts, Underwear; Shoes Made of Leather, Rubber, Fabric, and Combinations Thereof; Neckties, Caps, Hosiery, Sweaters, Knickers, Dresses, and Outer Skirts.
Claims use since Nov. 1, 1938.

Ser. No. 418,600. REINEMAN FURS, INC., New York, N. Y. Filed Apr. 22, 1939.

YENOT

For Fur Coats, Fur Jackets, Fur Scarfs, Fur Neck-Pieces, Fur Collars and Cuffs, Fur Muffs, and Fur Hats.
Claims use since Dec. 1, 1937.

Ser. No. 418,878. LA VIVANTE FOUNDATIONS INCORPORATED, New York, N. Y. Filed Apr. 29, 1939.

SIT-N-EASE by La Vivante

For Corsets, Brassières, and Foundations.
Claims use since Jan. 1, 1938.

Ser. No. 419,085. J. C. PENNEY COMPANY, Wilmington, Del., and New York, N. Y. Filed May 4, 1939.

Cresmode

For Slips and Foundation Garments—Namely, Corsets, Girdles, Combinations (Girdle and Brassière Combined to form One Garment), Brassières, and Bandeaux.
Claims use since Mar. 24, 1939.

Ser. No. 419,527. ARTHUR J. ROSENBLATT, Washington, D. C. Filed May 17, 1939.

Brooktowne

For Ladies' Dresses, Coats, Suits, Fur Coats, Fur-Trimmed Coats, Fur-Trimmed Dresses, and Fur-Trimmed Suits, Sweaters, Blouses, Skirts, Play Suits, Jackets, Bathing Suits, Slacks, Slack Suits, Underwear, Hosiery; Gloves Made of Leather, Fabric, or Combination of Leather and Fabric; Hats, and Housecoats.
Claims use since Mar. 1, 1937.

Ser. No. 419,605. BEKER & FRIEDMAN SHOE CO., INC., Brooklyn, N. Y. Filed May 20, 1939.

BF La Fayettes

Applicant disclaims the name "La Fayettes" except as shown.
For Leather and Canvas Shoes.
Claims use since Apr. 20, 1939.

Ser. No. 420,039. ACORN GLOVE COMPANY, INC., Palm, Pa. Filed June 1, 1939.



Applicant disclaims the words "Brand" and "Gloves."
For Fabric Work Gloves.
Claims use since Oct. 1, 1919.

Ser. No. 420,328. GEORGE LEWIS & SONS CO., Chicago, Ill. Filed June 9, 1939.

Juniana

For Women's and Misses' Lingerie Comprising Princess Slips, Pajamas, Night Gowns, Brassiere-Pantie Combinations Entitled Dancettes, Panties, Chemises, and Camisoles.
Claims use since Apr. 26, 1938.

Ser. No. 420,500. THE RUSSELL MANUFACTURING COMPANY, doing business as Southern Manufacturing Company, Alexander City, Ala. Filed June 14, 1939.

Southern

For Sweat Shirts, Sweat Pants, Warm-Up Suits, Sweaters, Hooded Shirts, Softball Jerseys, Gym Shirts, Gym Pants, Gym Suits, T and Quarter-Sleeve Shirts, Baseball Undershirts, Basketball Jerseys, Basketball Pants, Warm-Up Jackets, Football Jerseys, Prep Jackets, Soccer Jerseys, Tank Suits, and Swim Trunks.
Claims use since April, 1935.

Ser. No. 420,513. CHICAGO MAIL ORDER COMPANY, Chicago, Ill. Filed June 15, 1939.

"ARCTICOOL"

For Ladies' Dresses and Suits.
Claims use since Mar. 29, 1939.

Ser. No. 420,522. IRVING FINKER, INC., New York, N. Y. Filed June 15, 1939.

Fashionaire

For Women's Coats.
Claims use since June 8, 1939.

Ser. No. 420,545. I. SCHNEIERSON & SONS, INC., New York, N. Y. Filed June 15, 1939.

LOOMCRAFT

Frocks

Applicant makes no claim to the word "Frocks" apart from the mark.
For Ladies', Misses', Women's, and Children's Frocks and Dresses of a Textile Fabric.
Claims use since June 1, 1938.

Ser. No. 420,554. THE WAYNE KNITTING MILLS, Fort Wayne, Ind. Filed June 15, 1939.

Belle-Sharmeer

STRAIN-EASE

The words "Strain-Ease" are disclaimed apart from the mark.
For Stockings.
Claims use since June 1, 1938.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 409,145. THE VULCANIZED RUBBER COMPANY, New York, N. Y. Filed Aug. 1, 1938.

Handi Kurl

For Combs, Not Made of Precious Metal.
Claims use since July 1, 1938.

Ser. No. 419,864. FRASER MANUFACTURING CO. INC., New York, N. Y. Filed May 26, 1939.



"Raphael Brand" Wire

No claim is made to the words "Brand" and "Wire" apart from the mark.
For Covered Wire for Obtaining Body and Firmness in Hats, Bags, and the Like.
Claims use since Apr. 18, 1939.

Ser. No. 420,434. WILLA E. SMITH, doing business as Little Gem Mfg. Co., San Diego, Calif. Filed June 12, 1939.

'SNAPPEE'

For Shoulder Strap Holders.
Claims use since June 1, 1939.

CLASS 42

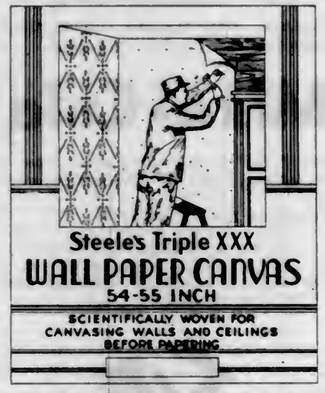
Knitted, Netted, and Textile Fabrics

Ser. No. 419,017. FORSTMANN WOOLEN CO., Passaic, N. J. Filed May 3, 1939.

Double Pickett

For Woolen Piece Goods.
Claims use since Apr. 15, 1939.

Ser. No. 420,392. STEELE'S MILLS, Rockingham, N. C. Filed June 10, 1939.



No claim is made to the words "Wall Paper Canvas", "54–55 Inch" and "Scientifically Woven for Canvasing Walls and Ceilings Before Papering" apart from the mark. The representation of the label per se is disclaimed. The portrait is fanciful.
For Cotton Piece Goods Scientifically Woven for Canvasing Walls and Ceilings before Papering.
Claims use since May 24, 1935.

Ser. No. 420,719. KANE-WEILL INC., New York, N. Y. Filed June 20, 1939.

TROPIX

For Wool, Rayon, and Cotton Fabrics and Mixtures Thereof, in the Piece.
Claims use since Mar. 1, 1939.

Ser. No. 420,735. ALBERT H. VANDAM CO., INC., New York, N. Y. Filed June 20, 1939.

YOUNG AMERICA PRINTS

The words "America Prints" are disclaimed apart from the mark.
For Cotton Piece Goods.
Claims use since Apr. 11, 1938.

Ser. No. 420,747. BEAUMART CO., New York, N. Y. Filed June 21, 1939.

HAND BLOCKED
Fabricala
CALIFORNIA PRINTS

The words "Hand Blocked California Prints" are disclaimed apart from the mark.
For Hand Blocked Printed Piece Goods of Rayon, Silk, Cotton, Wool, and Combinations Thereof, Used in the Manufacture of Dresses.
Claims use since Mar. 8, 1938.

Ser. No. 421,121. BEACON MANUFACTURING COMPANY, Swannanoa, N. C. Filed June 30, 1939.

WOOLAIRE

For Blankets Made of Cotton or Cotton and Wool.
Claims use since Mar. 1, 1939.

Ser. No. 421,178. CALLAWAY MILLS, La Grange. Filed July 1, 1939.

ELMROSE

For Textile Bath Rugs, Mats, and Seat Covers.
Claims use since Jan. 2, 1933.

Ser. No. 421,180. COLLINS AND AIKMAN CORPORATION, Philadelphia, Pa., and New York, N. Y. Filed July 1, 1939.

Caveltеen

For Cotton Pile Fabrics in the Piece.
Claims use since June 27, 1939.

Ser. No. 421,259. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed July 3, 1939.

LINTGON

For Table Damask.
Claims use since Apr. 15, 1939.

CLASS 43

Thread and Yarn

Ser. No. 420,351. BERNARD WEIL, INC., New York, N. Y. Filed June 9, 1939.

Goura

For Yarns Made of Wool and Wool and Mohair.
Claims use since May 3, 1939.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 417,339. WM. T. KNOTT COMPANY, INC., New York, N. Y. Filed Mar. 21, 1939.

BEAU-KNOT

For Sanitary Napkins, Manicure Sets, and Absorbent Cotton.
Claims use since October, 1931.

Ser. No. 421,209. STEDFAST RUBBER COMPANY, INC., Boston, Mass. Filed July 1, 1939.

Sure-Grip

For Rubberized Hospital Sheeting.
Claims use since June 19, 1939.

Ser. No. 421,404. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa. Filed July 8, 1939.

5 PHASE

For Dental Supplies—Namely, Artificial Teeth.
Claims use since June 27, 1939.

Ser. No. 421,448. BERST-FORSTER-DIXFIELD COMPANY, Dixfield, Maine, and New York, N. Y. Filed July 11, 1939.

BFD

For Toothpicks and Wood Applicators.
Claims use since May 9, 1939.

Ser. No. 421,501. AMERICAN MACHINE AND METALS, INC., New York, N. Y. Filed July 13, 1939.

AEREX

For Permanent Wave Machines, Electric Hair Dryers, and Permanent Waving Curling Rods, Clamps, Air Chambers, and Pads.
Claims use since May 24, 1939.

Ser. No. 421,548. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed July 13, 1939.

Bestnaps

For Sanitary Napkins.
Claims use since June 20, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 414,916. DREWRYS DRY GINGER ALE, U. S. A., INC., Detroit, Mich. Filed Jan. 17, 1939.

Mixa-Cola

The word "Cola" is disclaimed apart from the mark.
For Nonalcoholic, Noncereal, Maltless Beverages Sold as Soft Drinks.
Claims use since Jan. 7, 1939.

Ser. No. 420,466. TOWNE TALK COMPANY, Los Angeles, Calif. Filed June 13, 1939.



TOWNE TOPPINGS

No claim is made to the word "Toppings" apart from the mark.
For Syrups, Extracts, Flavors and Liquid Coloring, Fruit Juices, Concentrates, and Sundae Toppings to be Used for Fountain and Beverage Purposes.
Claims use since June 7, 1939.

Ser. No. 421,187. STEPHEN JANIK, Niagara Falls, N. Y. Filed July 1, 1939.



For Nonalcoholic, Noncereal, Maltless Beverages, Sold as Soft Drinks and Sirups and Extracts for Making the Same.
Claims use since September, 1938.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 401,759. A. B. WISE, doing business as A. B. Wise & Sons, Cincinnati, Ohio. Filed Jan. 10, 1938.

QUEEN ESTHER

For Noodles, Dried Fruits—Namely, Apricots, Prunes, Peaches, Pears, Raisins, and Mixed Fruits; Flour and Specifically Potato Flour; Condiments—Namely, Horseradish, Black Pepper, White Pepper, Cinnamon, Ginger, Candies; Preserves—Namely, Cherry, Orange, Marmalade, Pineapple, Raspberry, and Strawberry; Coffee and Tea.
Claims use since Jan. 1, 1934.

Ser. No. 406,660. TYRRELL AND GARTH, INC., Houston, Tex. Filed May 23, 1938.

SUN MAGIC

For Canned Vegetables, Canned Fruit and Fruit Juices for Use as Foods.
Claims use since Jan. 10, 1938.

Ser. No. 411,759. NASH-FINCH COMPANY, Minneapolis, Minn. Filed Oct. 14, 1938.

GOLDEN VALLEY

For Canned Fruits, Canned Vegetables, Catsup, Fruit Juice for Food Purposes, Canned Salmon, Peanut Butter, Mustard, Salad Dressing, Vinegar, Pickles, Soda Crackers, and Corn Flakes.
Claims use as to canned fruits, canned vegetables and catsup since on or about Jan. 22, 1914; to fruit juice since on or about Jan. 28, 1938; to canned salmon since on or about Sept. 22, 1936; to peanut butter since on or about Sept. 16, 1936; to mustard since on or about July 1, 1937; to salad dressing since on or about Mar. 1, 1936; to vinegar since on or about May 1, 1937; to pickles since on or about Sept. 16, 1936; to soda crackers since on or about Sept. 1, 1936; and to corn flakes since on or about Feb. 1, 1937.

Ser. No. 413,331. W. H. BOOTH & COMPANY, INC., Santa Ana, Calif. Filed Dec. 1, 1938.

KENO

For Whole Dried Chili Pods, Whole Dried Chili Peppers, Ground Paprika, Chili Powder, Powdered Dehydrated Garlic, Powdered Dehydrated Onion, Pork Sausage Seasoning, Walnut Meats, Canned Vegetables, Canned Tamales, Chili Sauces for Foods, Nuts in Natural State, Canned Spaghetti with Chili Sauce, Poultry Feed, Ground and Whole Spices, Bird Food, and Rice Puddings.
Claims use since July 16, 1928.

Ser. No. 416,591. WILLIAMSON CANDY COMPANY, Chicago, Ill. Filed Mar. 1, 1939.

"GRABS"

For Candy.
Claims use since Feb. 21, 1939.

Ser. No. 416,928. VITA SALES CORPORATION, St. Louis, Mo. Filed Mar. 10, 1939.

Vita Whip

For Liquid Food—Namely, Fortified Milk.
Claims use since Mar. 7, 1939.

Ser. No. 418,372. STANDARD MILLING COMPANY, New York, N. Y. Filed Apr. 17, 1939.

STAMCO

For Wheat Flour and High Gluten Flour.
Claims use since Feb. 1, 1939.

Ser. No. 418,632. FISHER FLOURING MILLS COMPANY, West Waterway, Harbor Island, Seattle, Wash. Filed Apr. 24, 1939.

Fisher's

Applicant is the owner of registration No. 162,751, and of the trade-mark shown therein.
For Prepared Flour for Making Biscuits, Etc.; Wheat Flour; Whole Wheat Flour; Graham Flour; Prepared Rye Flour; Pancake and Waffle Flour; White and Yellow Corn Meal; Wheat Germ for Use as an Addition to Breakfast Cereal in Connection with Flour for Pastry, Biscuits, Cookies, as a Thickening for Soups and Gravies, and in Connection with Casserole Dishes; Cracked Wheat for Use in Breads and Muffins, as a Breakfast Cereal and as a Garnish; Farina; Poultry Feed; Dairy and Calf Feeds; Turkey Feed, and Rabbit Feed.
Claims use since May, 1919.

Ser. No. 418,837. E. F. KEMP, INC., Somerville, Mass. Filed Apr. 28, 1939.

FRUIT CUPS

The word "Fruit" is disclaimed apart from the mark.
For Confection Consisting of Candy.
Claims use since Apr. 18, 1939.

Ser. No. 418,866. ALEC BESSO, doing business as American Food Products Co., New York, N. Y. Filed Apr. 29, 1939.

American MALTINA



The word "American" is disclaimed apart from the mark. The portrait is that of applicant's daughter, Mary Ellen Besso.

For Preparation of Malted Milk, Sugar, Malt, and Cocoa for Making a Food Beverage.

Claims use since December, 1938.

Ser. No. 418,934. JOHN A. MILLER, doing business as Meadow Brook Farms, Nazareth, Pa. Filed May 1, 1939.



No claim is made to the word "Superior" apart from the mark.

For Dehydrated Alfalfa Meal Used as a Feed for Livestock and Poultry.

Claims use since Aug. 25, 1932.

Ser. No. 419,148. INDUSTRIAL SUGARS CORPORATION, Chicago, Ill. Filed May 6, 1939.

in Suco

For Liquid Sugar Comprising a Mixture of Sugar and Water Substantially Free from Undissolved Excess Sugar.

Claims use since Jan. 20, 1939.

Ser. No. 419,600. HENRY H. YERK, doing business as Tend-R-Lux Meat Products Company, Davenport, Iowa. Filed May 19, 1939.

Tend-R-Lux

Applicant disclaims the word "Tend-R" except in the form disclosed.

For Meat Products Comprising Ham, Beef, Veal, and Pork Steaks.

Claims use since Mar. 3, 1939.

Ser. No. 420,282. LOOSE-WILES BISCUIT COMPANY, Long Island City, N. Y. Filed June 8, 1939.

SKY RIDER

For Biscuits, Cookies, Cakes, and Crackers.

Claims use since May 25, 1939.

Ser. No. 420,355. ALFOCORN MILLING COMPANY, East St. Louis, Ill. Filed June 10, 1939.

Unafresh

No claim is made to the word "Fresh" apart from the mark.

For Poultry, Dairy, Stock, and Hog Feeds.

Claims use since Apr. 21, 1938.

Ser. No. 420,499. RESTERIA, INC., New Orleans, La. Filed June 14, 1939.



For Sandwiches.

Claims use since May 19, 1939.

Ser. No. 420,578. GENERAL MILLS, INC., Minneapolis, Minn. Filed June 16, 1939.

PIG AND HOG BUILDER

Applicant is the owner of United States Trade-Mark registrations Nos. 365,414, 351,256, 357,134, 365,415, and 149,210. Applicant disclaims the words "Pig and Hog" apart from the mark. The drawing is lined for red.

For Stock Food, Particularly Feed for Pigs and Hogs.

Claims use since Dec. 30, 1938.

Ser. No. 420,627. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash. Filed June 17, 1939.

BESTAKO

For Wheat Flour.

Claims use since May 19, 1939.

Ser. No. 420,628. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash. Filed June 17, 1939.

EMBAKO

For Wheat Flour.

Claims use since May 19, 1939.

Ser. No. 420,629. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash. Filed June 17, 1939.

FINAKO

For Wheat Flour.

Claims use since May 19, 1939.

Ser. No. 420,630. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash. Filed June 17, 1939.

REDAKO

For Wheat Flour.

Claims use since May 19, 1939.

Ser. No. 420,631. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash. Filed June 17, 1939.

SPONGAKO

For Wheat Flour.

Claims use since May 19, 1939.

Ser. No. 420,632. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash. Filed June 17, 1939.

SURAKO

For Wheat Flour.

Claims use since May 19, 1939.

Ser. No. 420,633. FISHER FLOURING MILLS COMPANY, Harbor Island, Seattle, Wash. Filed June 17, 1939.

WHITAKO

For Wheat Flour.

Claims use since May 19, 1939.

Ser. No. 420,688. PILLSBURY FLOUR MILLS COMPANY, Minneapolis, Minn. Filed June 19, 1939.

PANCHIEF

For Wheat Flour.

Claims use since Jan. 12, 1939.

Ser. No. 421,097. PIOWATY BROS. OF ILLINOIS, INC., Chicago, Ill. Filed June 29, 1939.

Glorified Onions

The word "Onions" is disclaimed apart from the mark.

For Onions.

Claims use since December, 1938.

Ser. No. 421,158. F. H. PEAVEY & COMPANY, doing business as Thief River Falls Seed House, Minneapolis and Thief River Falls, Minn. Filed June 30, 1939.

HARDY NORTH

The drawing is lined for blue.

For Salt.

Claims use since July, 1936.

CLASS 48

Malt Beverages and Liquors

Ser. No. 420,352. WHITE EAGLE BREWING COMPANY, Chicago, Ill. Filed June 9, 1939.

Allweiden

For Beer.

Claims use since Feb. 1, 1939.

Ser. No. 421,189. V. LOEWER'S GAMBRINUS BREWERY CO., New York, N. Y. Filed July 1, 1939.



For Beer and Ale.

Claims use since Mar. 1, 1938.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 414,919. BARON LONG, doing business as The Biltmore Hotel, Los Angeles, Calif. Filed Jan. 17, 1939.

BILTMORE

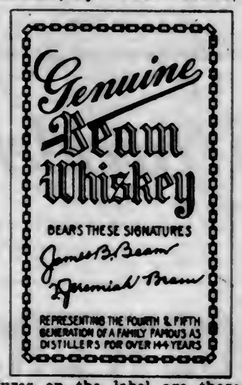
For Whiskey.
Claims use since Apr. 5, 1934.

Ser. No. 419,083. JAMES M. MCCUNN, doing business as James M. McCunn and Company, New York, N. Y. Filed May 4, 1939. Under 10-year proviso.



For Whiskey.
Claims use since 1894.

Ser. No. 420,661. JAMES B. BEAM DISTILLING CO., INCORPORATED, Clermont, Ky. Filed June 19, 1939.



The signatures on the label are those of James B. Beam, president, and T. Jeremiah Beam, treasurer, of applicant company. The outline of the label and the words "Genuine Whiskey" and "Bears These Signatures" are disclaimed apart from the mark.

For Whiskey.
Claims use since May 21, 1938.

Ser. No. 420,988. BRUNSWIG DRUG CO., Los Angeles, Calif. Filed June 27, 1939.

REDFERN

For Whiskey.
Claims use since June 15, 1939.

Ser. No. 421,539. SACCONE, SPEED & JENNEY, INC., New York, N. Y. Filed July 13, 1939.

MELLOWCREEK

For Whiskey.
Claims use since June 8, 1939.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 419,342. CONTINENTAL CAN COMPANY, INC., New York, N. Y. Filed May 12, 1939.



The words "It's Skill that Makes a Good Seal" are disclaimed apart from the mark.

For Crown Caps.
Claims use since May 5, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 22, 1939

370,162. PIECE GOODS OF COTTON, NATURAL OR ARTIFICIAL SILK—NAMELY, RAYON, ACETATE SILK, LINEN, WOOL, MOHAIR, AND OTHER FIBRES, ETC. AQUA-SEC CORPORATION, New York, N. Y., now by change of name Ymba Corporation, assignor to Aqua-Sec Corporation, New York, N. Y., a corporation of New York (1937).
Filed February 19, 1935. Serial No. 361,596. PUBLISHED JUNE 6, 1939. Class 50.

370,163. CANNED FOODS—NAMELY, SALMON, SPAGHETTI, CARROTS, COFFEE. KARASIK BROS. Co., Chicago, Ill.
Filed March 7, 1936. Serial No. 375,708. PUBLISHED JUNE 13, 1939. Class 46.

370,164. MEDICAL, SURGICAL, AND DENTAL INSTRUMENTS, MATERIALS, AND APPLIANCES, MEDICAL AND HYGIENIC APPARATUS AND INSTRUMENTS, CHEMICAL PHARMACEUTICAL GLASSWARE. JENAER GLASWERK SCHOTT & GEN., Jena, Germany.
Filed March 19, 1936. Serial No. 376,161. PUBLISHED JUNE 13, 1939. Class 44.

370,165. MEDICAL, SURGICAL, AND DENTAL INSTRUMENTS, MATERIALS, AND APPLIANCES, MEDICAL AND HYGIENIC APPARATUS AND INSTRUMENTS, CHEMICAL PHARMACEUTICAL GLASSWARE. JENAER GLASWERK SCHOTT & GEN., Jena, Germany.
Filed May 28, 1936. Serial No. 378,963. PUBLISHED JUNE 13, 1939. Class 44.

370,166. LIQUID PREPARATIONS FOR CLEANING AND DRESSING RUBBER ARTICLES HAVING INCIDENTAL PROPERTIES FOR TREATING AND COLOURING THE SAME, ETC. THE GENERAL TIRE & RUBBER COMPANY, Akron, Ohio.
Filed July 30, 1936. Serial No. 381,612. PUBLISHED JUNE 6, 1939. Class 4.

370,167. WATERPROOFED SILK FABRIC VISIBLY COATED OR VISIBLY TREATED WITH HEAVY OIL. HARTE & WYLE, New York, N. Y., assignor to Ralph S. Harte, New York, N. Y.
Filed August 21, 1936. Serial No. 382,429. PUBLISHED NOVEMBER 3, 1936. Class 50.

370,168. ELECTRICAL MEASURING APPARATUS FOR MEASURING AND RECORDING GRAPHICALLY SOUND INTENSITIES OF LOUD SPEAKERS, TELEPHONES, AND THE LIKE IN WHICH A MEASURED QUANTITY OF ENERGY IS IMPRESSED UPON THE LOUD SPEAKER BY THE ELECTRICAL APPARATUS ITSELF. TOBE DEUTSCHMANN CORPORATION, Canton, Mass.
Filed February 19, 1937. Serial No. 389,120. PUBLISHED JUNE 13, 1939. Class 26.

370,169. FRATERNITY PINS, BADGES, BUTTONS; SCARF, LAPEL AND BREAST PINS; CUFF LINKS, ETC. SUPREME SANCTORUM ANCIENT MYSTIC ORDER OF SAMARITANS, INC., Niagara Falls, N. Y.
Filed July 27, 1937. Serial No. 395,687. PUBLISHED May 30, 1939. Class 28.

370,170. FRESH DECIDUOUS FRUITS, FRESH GRAPES. FEDERAL FRUIT DISTRIBUTORS, Fresno, Calif.
Filed September 1, 1937. Serial No. 396,984. PUBLISHED FEBRUARY 21, 1939. Class 46.

370,171. PINS, CLIPS, BRACELETS, EARRINGS, BROOCHES, HAIR ORNAMENTS, NECKLACES, FOBS, AND RINGS, ALL OF THE FOREGOING ARTICLES BEING MADE OF PRECIOUS METAL OR PLATED WITH THE SAME. MONOCRAFT PRODUCTS CO. INC., New York, N. Y.
Filed October 15, 1937. Serial No. 398,544. PUBLISHED JUNE 13, 1939. Class 28.

370,172. ADDITIVE PRIMARILY CONSISTING OF OIL AND SERVING TO INCREASE PENETRATING QUALITIES OF LUBRICANTS AND REDUCE EFFECTS OF TEMPERATURE CHANGES. THE H. A. MONTGOMERY COMPANY, Detroit, Mich.
Filed November 17, 1937. Serial No. 399,852. PUBLISHED AUGUST 2, 1938. Class 15.

370,173. COAL HANDLING EQUIPMENT—NAMELY, COAL CHUTES, NON-SEGREGATING COAL DISTRIBUTORS, COAL VALVES, AND PARTS THEREFOR. ARTHUR J. STOCK, doing business as Stock Engineering Company, Cleveland, Ohio.
Filed November 18, 1937. Serial No. 399,902. PUBLISHED JUNE 13, 1939. Class 23.

370,174. CLIPS USED FOR FASTENING WEARING APPAREL. FRIEDRICH SCHÄFER, St. Gallen, Switzerland.
Filed November 24, 1937. Serial No. 400,129. PUBLISHED JUNE 6, 1939. Class 37.

370,175. EDIBLE COATING SUCH AS CHOCOLATE FOR ICE CREAM AND LIKE CONFECTIONS. ESKIMO PIE CORPORATION, Bloomfield, N. J.
Filed February 17, 1938. Serial No. 403,120. PUBLISHED JUNE 13, 1939. Class 46.

370,176. PERIODICAL PUBLICATION. AMERICAN INSTITUTE OF MINING AND METALLURGICAL ENGINEERS, INC., New York, N. Y.
Filed February 24, 1938. Serial No. 403,351. PUBLISHED MAY 30, 1939. Class 38.

370,177. PAPER TISSUES PARTICULARLY ADAPTED FOR POLISHING AND CLEANING AUTOMOBILES, WINDOWS, ETC. LEE POLISH MFG. CO. INC., Brooklyn, N. Y.
Filed February 25, 1938. Serial No. 403,414. PUBLISHED JUNE 21, 1938. Class 37.

370,178. CANDY. CHRISTUS A. PAPAS, doing business as Lily's Chocolate Shop, Covington, Ky.
Filed March 1, 1938. Serial No. 403,559. PUBLISHED JUNE 13, 1939. Class 46.

370,179. BOXES, PAPER CONTAINERS, CRATES, AND BASKETS. MODERN PAC, INC., Eau Claire, Mich.
Filed March 11, 1938. Serial No. 403,954. PUBLISHED MAY 23, 1939. Class 2.

370,180. CLOCKS AND WATCHES. GENERAL TIME INSTRUMENTS CORPORATION, New York, N. Y., and La Salle, Ill.
Filed March 30, 1938. Serial No. 404,645. PUBLISHED JUNE 6, 1939. Class 27.

370,181. METAL POLISH AND SILVER POLISH. BARTHOLOMEW F. NATOLI, doing business as Seagram Chemical Co., Passaic, N. J.
Filed April 4, 1938. Serial No. 404,863. PUBLISHED MAY 30, 1939. Class 4.

370,182. PNEUMATIC TIRES AND TUBES FOR VEHICLE WHEELS. THE PHARIS TIRE AND RUBBER COMPANY, Newark, Ohio.
Filed April 22, 1938. Serial No. 405,614. PUBLISHED JUNE 13, 1939. Class 35.

370,183. RAZOR BLADES, SAFETY RAZOR BLADES, RAZORS, SAFETY RAZORS, RAZOR KNIVES, SCISSORS, PINCERS, SPRAYERS. FERD. MÜLHENS, INC., New York, N. Y., assignor to Paul Peter Mülhens, doing business under firm name Eau de Cologne- & Parfümerie-Fabrik, Cologne, Germany.
Filed May 12, 1938. Serial No. 406,260. PUBLISHED OCTOBER 18, 1938. Class 23.

370,184. NON-ALCOHOLIC CARBONATED BEVERAGES, FLAVORED AND UNFLAVORED. WARWICK CLUB GINGER ALE CO., INC., West Warwick, R. I.
Filed June 2, 1938. Serial No. 407,045. PUBLISHED JULY 19, 1938. Class 45.

370,185. FRESH CITRUS FRUITS, AND VEGETABLES AND CANNED ORANGE JUICE AND CANNED GRAPEFRUIT JUICE FOR FOOD PURPOSES. A. H. VAYO, Harlingen, Tex.
Filed June 11, 1938. Serial No. 407,397. PUBLISHED JUNE 13, 1939. Class 46.

370,186. FOOD FLAVORING COMPOUND. TIEN CHU VE-TSIN MANUFACTURING CO., LTD., Shanghai, China.
Filed July 6, 1938. Serial No. 408,254. PUBLISHED JUNE 13, 1939. Class 46.

370,187. EXTRACT OF YEAST AND VEGETABLES TO BE USED AS A HEALTH FOOD OF A SPECIFIC VITAMIN CONTENT. LOMA LINDA FOOD COMPANY, Loma Linda, Calif.
Filed July 18, 1938. Serial No. 408,612. PUBLISHED DECEMBER 27, 1938. Class 46.

370,188. COAL AND COKE. MALCOMSON COAL COMPANY, Detroit, Mich.
Filed August 12, 1938. Serial No. 409,549. PUBLISHED JUNE 13, 1939. Class 1.

370,189. COTTON, RAYON, AND COTTON AND RAYON PIECE GOODS. AMERICAN BLEACHED GOODS COMPANY, INC., New York, N. Y.
Filed August 17, 1938. Serial No. 409,669. PUBLISHED MARCH 7, 1939. Class 42.

370,190. CHEMICALLY TREATED WINDSHIELD FELTS. RAINE-KLEER COMPANY, San Francisco, Calif.
Filed August 20, 1938. Serial No. 409,820. PUBLISHED JUNE 6, 1939. Class 4.

370,191. CANNED FRUITS. SCHUCKL & CO., INC., San Francisco, Calif.
Filed August 29, 1938. Serial No. 410,094. PUBLISHED MARCH 14, 1939. Class 46.

370,192. PLYWOOD. I. F. LAUCKS, INC., Seattle, Wash.
Filed September 15, 1938. Serial No. 410,595. PUBLISHED JUNE 13, 1939. Class 12.

370,193. FLOUR MILLED FROM WHET. STANARD-TILTON MILLING CO., Alton, Ill.
Filed September 21, 1938. Serial No. 410,849. PUBLISHED JUNE 13, 1939. Class 46.

370,194. FRESH FRUITS, DECIDUOUS AND CITRUS, AND FRESH GRAPES. MARKO ZANINOVICH, Earlimart and Delano, Calif.
Filed September 28, 1938. Serial No. 411,066. PUBLISHED JUNE 13, 1939. Class 46.

370,195. DESIGNS FOR HATS, SHOES, GLOVES, JEWELRY, COMPACTS, WATCH CASES, BAGS, AND BELTS, SOLD AS SUCH IN THE TRADE. HENRY F. HUTCHINSON, New York, N. Y.
Filed October 28, 1938. Serial No. 412,142. PUBLISHED MAY 30, 1939. Class 38.

370,196. FISHING LEADERS MANUFACTURED FROM GUT SUBSTITUTE. LYON & COULSON, INC., Buffalo, N. Y.
Filed October 1, 1938. Serial No. 411,173. PUBLISHED JUNE 13, 1939. Class 22.

370,197. CRACKERS, CAKES, BISCUITS, AND COOKIES. J. S. IVINS' SON, INC., Philadelphia, Pa.
Filed October 6, 1938. Serial No. 411,336. PUBLISHED FEBRUARY 21, 1939. Class 46.

370,198. ELECTRIC VACUUM CLEANERS AND PARTS THEREOF. ELECTRIC VACUUM CLEANER COMPANY, INC., Cleveland, Ohio.
Filed October 8, 1938. Serial No. 411,406. PUBLISHED JUNE 13, 1939. Class 21.

370,199. SPARK PLUGS, IGNITION DISTRIBUTORS, IGNITION COILS, MAGNETOS, BATTERIES, DYNAMOS, ELECTRICAL STARTING DEVICES FOR MOTOR CAR ENGINES, LAMPS, HEADLIGHTS, ELECTRICAL ALARMS, ELECTRICAL CARRIAGE HEATING APPARATUS, ELECTRICAL STARTING SPARK PLUGS FOR DIESEL ENGINES. PRECISION ELECTRO-MECANIQUE S. A., Delemont, Switzerland.
Filed October 11, 1938. Serial No. 411,511. PUBLISHED JUNE 13, 1939. Class 21.

370,200. POCKET KNIVES. IMPERIAL KNIFE CO., INC., Providence, R. I.
Filed October 12, 1938. Serial No. 411,532. PUBLISHED JUNE 13, 1939. Class 23.

370,201. LIQUID ASBESTOS ROOF COATING AND PLASTIC ROOF CEMENT. PANTHER OIL & GREASE MFG. CO., doing business as The Zone Company, Fort Worth, Tex.
Filed October 21, 1938. Serial No. 411,897. PUBLISHED MAY 30, 1939. Class 12.

370,202. SILVERPLATED HOLLOWWARE. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass.
Filed October 26, 1938. Serial No. 412,056. PUBLISHED JUNE 6, 1939. Class 28.

370,203. PERIODICAL PUBLISHED FROM TIME TO TIME. R. H. MACY & CO., INC., New York, N. Y.
Filed November 1, 1938. Serial No. 412,264. PUBLISHED MAY 30, 1939. Class 38.

370,204. GASOLINE, LUBRICATING OILS AND GREASES, PETROLEUM DISTILLATES—NAMELY, FUEL OILS, FURNACE OILS, RANGE OILS, PRESSURE DISTILLATES, AND FUEL DISTILLATES. PENN-O-TEX OIL COMPANY, Minneapolis, Minn.
Filed November 4, 1938. Serial No. 412,389. PUBLISHED JUNE 6, 1939. Class 15.

370,205. BASE METAL, HAND OPERATED GRASS, HEDGE, KITCHEN, PRUNING, BANKERS', HOUSEHOLD, PINKING, TAILORS', AND BARBERS' SHEARS; BASE METAL SCISSORS—VIZ, LADIES' POCKET SCISSORS, PAPER SCISSORS, AND PARING KNIVES. UTICA CUTLERY COMPANY, Utica, N. Y.
Filed November 7, 1938. Serial No. 412,473. PUBLISHED APRIL 25, 1939. Class 23.

370,206. TYPEWRITER PAPER. EATON PAPER CORPORATION, Pittsfield, Mass.
Filed November 17, 1938. Serial No. 412,853. PUBLISHED JUNE 6, 1939. Class 37.

370,207. CANNED TOMATOES. LANDI & AVINO, New York, N. Y.
Filed November 23, 1938. Serial No. 413,073. PUBLISHED JUNE 13, 1939. Class 46.

370,208. GREETING CARDS. GREENTREE PUBLISHERS, INC., Boston, Mass.
Filed December 2, 1938. Serial No. 413,403. PUBLISHED JUNE 6, 1939. Class 38.

370,209. ARTIFICIAL FISH LURES. JOHN NELSON, doing business as Louis Johnson Co., Chicago, Ill.
Filed December 12, 1938. Serial No. 413,733. PUBLISHED JUNE 13, 1939. Class 22.

370,210. ORNAMENTAL FIGURES IN THE NATURE OF STATUETTES. IVON BEAR CO., INC., New York, N. Y.
Filed December 9, 1938. Serial No. 413,755. PUBLISHED JUNE 6, 1939. Class 50.

370,211. COMPOUND FOR DRYING PRINTING INK. INTERCHEMICAL CORPORATION, New York, N. Y.
Filed December 13, 1938. Serial No. 413,788. PUBLISHED APRIL 4, 1939. Class 11.

370,212. COSMETIC BRUSHES. MELBERN, INC., Los Angeles, Calif.
Filed December 13, 1938. Serial No. 413,793. PUBLISHED JUNE 13, 1939. Class 29.

370,213. SOLID GOLD FINGER RINGS. JEROME DREYFUSS, doing business as International Ring Company, Buffalo, N. Y.
Filed December 14, 1938. Serial No. 413,808. PUBLISHED JUNE 6, 1939. Class 28.

370,214. WOOL FIBER. THE L. B. LOCKWOOD COMPANY, Cleveland, Ohio.
Filed December 14, 1938. Serial No. 413,809. PUBLISHED JUNE 6, 1939. Class 1.

370,215. LIVING ROOM, DINING ROOM, AND BEDROOM FURNITURE. CONSIDER H. WILLETT, INC., Louisville, Ky.
Filed December 27, 1938. Serial No. 414,246. PUBLISHED JUNE 13, 1939. Class 32.

370,216. METAL FORMS FOR USE IN RETAINING CONCRETE STRUCTURES DURING THE SETTING AND HARDENING THEREOF. ECONOMY FORMS CORPORATION, Des Moines, Iowa.
Filed December 31, 1938. Serial No. 414,397. PUBLISHED JUNE 6, 1939. Class 12.

370,217. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, FRUIT JUICES, CANNED SOUPS, SPICES, ETC. SWEET LIFE FOOD CORPORATION, Brooklyn, N. Y.
Filed January 4, 1939. Serial No. 414,513. PUBLISHED JUNE 13, 1939. Class 46.

370,218. PERIODICAL. ANDRESEN, INCORPORATED, Pittsburgh, Pa.
Filed January 18, 1939. Serial No. 414,941. PUBLISHED JUNE 6, 1939. Class 38.

370,219. FRESH DECIDUOUS FRUITS AND FRESH VEGETABLES. J. W. BEASLEY & CO., INC., Los Angeles, Calif.
Filed January 23, 1939. Serial No. 415,102. PUBLISHED APRIL 4, 1939. Class 46.

370,220. OLIVE OIL. JOSÉ ALMEIDA, New Bedford, Mass.
Filed January 25, 1939. Serial No. 415,206. PUBLISHED JUNE 13, 1939. Class 46.

370,221. TEXTILE RUGS. ESTATE OF OTTO TIMME, DECEASED, doing business as E. F. Timme & Son, New York, N. Y.
Filed January 26, 1939. Serial No. 415,247. PUBLISHED JUNE 13, 1939. Class 42.

370,222. CLEANING POWDERS FOR THE CLEANING, POLISHING, AND REMOVING STAINS FROM DENTAL PLATES. SARAH BERTHELSEN, doing business as Dentabrite Laboratories, Portland, Oreg.
Filed January 27, 1939. Serial No. 415,315. PUBLISHED MAY 30, 1939. Class 4.

370,223. GASOLINE, KEROSENE, LUBRICATING OILS, AND GREASES. THE GOLDEN RULE OIL COMPANY, Wichita, Kans.
Filed January 30, 1939. Serial No. 415,386. PUBLISHED JUNE 13, 1939. Class 15.

370,224. PREPARATION IN POWDER FORM FOR CLEANING, RENOVATING, AND REFINISHING NEW AND SOILED RUGS AND CARPETS. THE MATHIESON ALKALI WORKS (INC.), New York, N. Y.
Filed February 2, 1939. Serial No. 415,518. PUBLISHED MAY 30, 1939. Class 4.

370,225. UNFINISHED CASTINGS OF FERROUS METAL GENERALLY. MACKINTOSH-HEMPHILL COMPANY, Pittsburgh, Pa.
Filed February 7, 1939. Serial No. 415,725. PUBLISHED JUNE 13, 1939. Class 14.

370,226. UNFINISHED CASTINGS OF FERROUS METAL GENERALLY. MACKINTOSH-HEMPHILL COMPANY, Pittsburgh, Pa.
Filed February 7, 1939. Serial No. 415,726. PUBLISHED JUNE 13, 1939. Class 14.

370,227. UNFINISHED CASTINGS OF FERROUS METAL GENERALLY. MACKINTOSH-HEMPHILL COMPANY, Pittsburgh, Pa.
Filed February 7, 1939. Serial No. 415,727. PUBLISHED JUNE 13, 1939. Class 14.

370,228. UNFINISHED CASTINGS OF FERROUS METAL GENERALLY. MACKINTOSH-HEMPHILL COMPANY, Pittsburgh, Pa.
Filed February 7, 1939. Serial No. 415,728. PUBLISHED JUNE 13, 1939. Class 14.

370,229. LIQUID SOAP FOR USE ON FLOORS, WOODWORK, AUTOMOBILE BODIES, AND THE LIKE. ROCHESTER GERMICIDE COMPANY, Rochester, N. Y.
Filed February 10, 1939. Serial No. 415,912. PUBLISHED MAY 30, 1939. Class 4.

370,230. CARTONS. ROBERT GAIR COMPANY, INC., New York, N. Y.
Filed February 11, 1939. Serial No. 415,941. PUBLISHED MAY 16, 1939. Class 2.

370,231. TONIC LAXATIVE COMPOUND FOR CONSTIPATION AND ATTENDANT ILLS, BILIOUSNESS, GAS, SOURNESS, DIZZINESS, COATED TONGUE, NERVOUSNESS, HEADACHE, STOMACH, LIVER, AND KIDNEY DISORDERS DUE TO CONSTIPATION. HERB PRODUCTS MEDICINE COMPANY, Jackson, Tenn.
Filed February 14, 1939. Serial No. 416,011. PUBLISHED JUNE 6, 1939. Class 6.

370,232. PUBLICATION ON CLINICAL SUBJECTS AND PHARMACEUTICAL, BIOLOGICAL, AND MEDICINAL PREPARATIONS PUBLISHED FROM TIME TO TIME AND USUALLY QUARTER-ANNUALLY. SHARP & DOHME, INCORPORATED, Philadelphia, Pa.
Filed February 16, 1939. Serial No. 416,115. PUBLISHED MAY 30, 1939. Class 38.

370,233. WATCHES, CLOCKS, CHRONOMETERS, AND DIALS THEREFOR. ROBERT L. HUNTER, doing business as The Nautical Clock Company, Norfolk, Va.
Filed February 21, 1939. Serial No. 416,226. PUBLISHED JUNE 6, 1939. Class 27.

370,234. ELECTRIC SWITCHES. ALLEN-BRADLEY COMPANY, Milwaukee, Wis.
Filed February 20, 1939. Serial No. 416,237. PUBLISHED JUNE 13, 1939. Class 21.

370,235. MAGAZINE. TODD SHIPYARDS CORPORATION, New York, N. Y.
Filed February 21, 1939. Serial No. 416,300. PUBLISHED MAY 30, 1939. Class 38.

370,236. TITLE FOR A NEWSPAPER COLUMN. LEO JIRANEK, New York, N. Y.
Filed February 23, 1939. Serial No. 416,326. PUBLISHED MAY 30, 1939. Class 38.

370,237. BEER. THE MARATHON CITY BREWING COMPANY, Marathon City, Wis.
Filed February 27, 1939. Serial No. 416,446. PUBLISHED JUNE 13, 1939. Class 48.

370,238. PRINTED TRANSPARENT SHEETING, PRINTED COATED PAPER, PRINTED LAMINATED STOCK, AND PRINTED WEB MATERIAL. THE DOBECKMUN COMPANY, Cleveland, Ohio.
Filed February 27, 1939. Serial No. 416,497. PUBLISHED JUNE 13, 1939. Class 37.

370,239. SCRIPTS FOR A SERIES OF COMMERCIAL RADIO BROADCASTS SOLD AS A PUBLICATION IN TRADE. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed February 28, 1939. Serial No. 416,504. PUBLISHED JUNE 13, 1939. Class 38.

370,240. PORTLAND CEMENT. UNIVERSAL ATLAS CEMENT COMPANY, Chicago, Ill.
Filed March 2, 1939. Serial No. 416,622. PUBLISHED MAY 30, 1939. Class 12.

370,241. PORTLAND CEMENT. UNIVERSAL ATLAS CEMENT COMPANY, Chicago, Ill.
Filed March 2, 1939. Serial No. 416,623. PUBLISHED MAY 30, 1939. Class 12.

370,242. PORCELAIN FRIT. AMERICAN PORCELAIN ENAMEL COMPANY, Muskegon, Mich.
Filed March 3, 1939. Serial No. 416,635. PUBLISHED JUNE 6, 1939. Class 1.

370,243. WATCHES AND WATCHES AND ATTACHED BRACELETS SOLD AS A UNIT. BENRUS WATCH CO., INC., New York, N. Y.
Filed March 4, 1939. Serial No. 416,679. PUBLISHED JUNE 6, 1939. Class 27.

370,244. COTTON, RAYON PIECE GOODS. THE GERNES GARMENT COMPANY, INC., Kansas City, Mo.
Filed March 9, 1939. Serial No. 416,849. PUBLISHED JUNE 13, 1939. Class 42.

370,245. DISH-WASHING PREPARATION. JOHN B. ROSEFIELD, doing business as An-Fo Manufacturing Co., Oakland, Calif.
Filed March 10, 1939. Serial No. 416,916. PUBLISHED MAY 30, 1939. Class 4.

370,246. GRANITE MONUMENTS. BRUCE'S MARBLE AND GRANITE WORKS, Fort Scott, Kans.
Filed March 11, 1939. Serial No. 416,943. PUBLISHED JUNE 6, 1939. Class 50.

370,247. SOAP CHIPS AND A CLEANSER FOR GENERAL HOUSEHOLD USE. H. E. BUTT GROCERY COMPANY, Harlingen and Corpus Christi, Tex.
Filed March 11, 1939. Serial No. 416,944. PUBLISHED MAY 30, 1939. Class 4.

370,248. WOVEN INSULATING BLANKETS OF AMPHIBOLE INSULATING FIBERS UTILIZED FOR INSULATING STEAM TURBINES AND THE LIKE. UNION ASBESTOS & RUBBER COMPANY, Cicero, Ill.
Filed March 13, 1939. Serial No. 417,037. PUBLISHED MAY 30, 1939. Class 12.

370,249. LEATHER. F. C. DONOVAN, INC., Boston, Mass.
Filed March 14, 1939. Serial No. 417,051. PUBLISHED JUNE 6, 1939. Class 1.

370,250. LIQUID CLEANING PREPARATION AND SOLVENT FOR REMOVING TAR OR GREASE SPOTS FROM PAINTED OR METAL SURFACES SUCH AS AUTOMOBILE BODIES AND THE LIKE AND FROM TEXTILE FABRICS. THE CURRAN CORPORATION, Malden, Mass.
Filed March 15, 1939. Serial No. 417,084. PUBLISHED MAY 30, 1939. Class 4.

370,251. NEWSPAPER COLUMN PRINTED FROM TIME TO TIME. SALVATORE F. DEL BONO, Philadelphia, Pa.
Filed March 16, 1939. Serial No. 417,119. PUBLISHED MAY 30, 1939. Class 38.

370,252. PERIODICAL. HIDE AND LEATHER PUBLISHING CO., Chicago, Ill.
Filed March 16, 1939. Serial No. 417,124. PUBLISHED MAY 30, 1939. Class 38.

370,253. PERIODICAL. MACNAIR-DORLAND COMPANY, New York, N. Y.
Filed March 16, 1939. Serial No. 417,130. PUBLISHED MAY 30, 1939. Class 38.

370,254. PRINTED ARTICLES INTERMITTENTLY PUBLISHED IN A SERIES IN NEWSPAPERS AND ALSO PUBLISHED IN LEAFLET FORM. GARDEX, INC., Michigan City, Ind.
Filed March 17, 1939. Serial No. 417,170. PUBLISHED JUNE 6, 1939. Class 38.

370,255. SMOKING TOBACCO. RAYMOND F. GRIFFITH, doing business as Colonial Tobacco Company, St. Louis, Mo.
Filed March 17, 1939. Serial No. 417,171. PUBLISHED JUNE 13, 1939. Class 17.

370,256. UPHOLSTERY AND RUG CLEANER. MARNA MANUFACTURING COMPANY, St. Louis, Mo.
Filed March 18, 1939. Serial No. 417,224. PUBLISHED JUNE 6, 1939. Class 4.

370,257. FRESH FROZEN VEGETABLES, FRUITS, BERRIES, FISH, AND POULTRY. UNITED FROSTED FOODS, INC., Chicago, Ill.
Filed March 20, 1939. Serial No. 417,312. PUBLISHED JUNE 13, 1939. Class 46.

370,258. SHAVING CREAM. COLGATE-PALMOLIVE-PEET COMPANY, Jersey City, N. J.
Filed March 21, 1939. Serial No. 417,329. PUBLISHED JUNE 6, 1939. Class 4.

370,259. CIGARETTES. IRA M. DECKER, Denver, Colo.
Filed March 21, 1939. Serial No. 417,331. PUBLISHED JUNE 6, 1939. Class 17.

370,260. FLUID MILK. THE BORDEN COMPANY, New York, N. Y.
Filed March 22, 1939. Serial No. 417,357. PUBLISHED JUNE 13, 1939. Class 46.

370,261. CEREAL EXTRACT FOR USE IN THE BREWING INDUSTRY. DEHLS & STEIN, INC., Newark, N. J.
Filed March 22, 1939. Serial No. 417,367. PUBLISHED JUNE 13, 1939. Class 48.

370,262. DOG FOOD. NESTRA PACKING COMPANY, Berkley, Mich.
Filed March 23, 1939. Serial No. 417,411. PUBLISHED JUNE 13, 1939. Class 46.

370,263. MAGAZINE PUBLISHED AT RECURRING INTERVALS. THE ASSOCIATION OF 20–30 CLUBS, Sacramento, Calif.
Filed March 24, 1939. Serial No. 417,432. PUBLISHED JUNE 6, 1939. Class 38.

370,264. PRINTED STOCKS AND BONDS, SOLD AS SUCH TO THE TRADE. EDWARD ROBIE, New York, N. Y.
Filed March 24, 1939. Serial No. 417,472. PUBLISHED JUNE 13, 1939. Class 38.

370,265. GRANULATED SOAP. SAFEWAY STORES, INC., also doing business as Home Needs Co., Vernon and Oakland, Calif.
Filed March 24, 1939. Serial No. 417,475. PUBLISHED MAY 30, 1939. Class 4.

370,266. GREETING CARDS. THE BUZZA COMPANY, Minneapolis, Minn.
Filed March 25, 1939. Serial No. 417,486. PUBLISHED JUNE 6, 1939. Class 38.

370,267. FRESH VEGETABLES. RAY A. HARTNESS, Weslaco, Tex.
Filed March 25, 1939. Serial No. 417,491. PUBLISHED JUNE 13, 1939. Class 46.

370,268. BLANK RECORD SHEETS FOR MAINTAINING A RECORD OF CERTAIN TRANSACTIONS INVOLVED IN THE MAGAZINE TRADE. GILES W. MILLSPAUGH, JR., Natchitoches, La.
Filed March 25, 1939. Serial No. 417,500. PUBLISHED JUNE 6, 1939. Class 37.

370,269. THRU WALL FLASHING. W. A. FINGLES, INC., also doing business as Majestic Flashing Co., Baltimore, Md.
Filed March 28, 1939. Serial No. 417,567. PUBLISHED MAY 30, 1939. Class 12.

370,270. CHEWING GUM. GUM INCORPORATED, Philadelphia, Pa.
Filed March 28, 1939. Serial No. 417,573. PUBLISHED JUNE 13, 1939. Class 46.

370,271. MONTHLY PUBLICATION. THE PARENTS' INSTITUTE, INC., New York, N. Y.
Filed March 28, 1939. Serial No. 417,586. PUBLISHED MAY 30, 1939. Class 38.

370,272. FRESH VEGETABLES. SAN PAT VEGETABLE CO. INC., Sinton, Tex.
Filed March 28, 1939. Serial No. 417,588. PUBLISHED JUNE 13, 1939. Class 46.

370,273. FUR SKINS. B. WOLLMAN & BRO., New York, N. Y.
Filed March 28, 1939. Serial No. 417,598. PUBLISHED JUNE 6, 1939. Class 1.

370,274. GRANULAR SYNTHETIC DETERGENT TO BE USED AS A CLEANSER FOR TEXTILES, CLOTHING, FOR LAUNDRY USE, AND FOR GENERAL HOUSEHOLD CLEANING. GENERAL MILLS, INC., Minneapolis, Minn.
Filed March 29, 1939. Serial No. 417,609. PUBLISHED JUNE 13, 1939. Class 4.

370,275. AUTOMOBILE WASH. KARFOAM CORPORATION, Dover, Del., and New York, N. Y.
Filed March 30, 1939. Serial No. 417,649. PUBLISHED JUNE 13, 1939. Class 4.

370,276. CRIB SHEETS AND PILLOW CASES, KNIT CRIB SHEETS, TERRY KNIT TOWELS, WASH CLOTHS, BATH SHEETS, KNIT TOWELS AND WASH CLOTHS, COMBINATION TOWEL AND WASH CLOTH SETS, FLANNEL RECEIVING BLANKETS, CHENILLE CRIB SPREADS. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y.; Akron and Cleveland, Ohio; Baltimore, Md.; Los Angeles, Calif.; Denver, Colo.; and St. Louis, Mo.
Filed March 31, 1939. Serial No. 417,698. PUBLISHED JUNE 13, 1939. Class 42.

370,277. RESIN USED IN ALL CASES WHERE ROSIN MAY BE EMPLOYED, SUCH AS IN PAINTS, VARNISHES, SOAPS, PAPER SIZES, BOX TOES, ELECTRICAL INSULATING COMPOUNDS, ADHESIVES, CEMENTS, RUBBER COMPOUNDS, SYNTHETIC RESINS, ETC. HERCULES POWDER COMPANY, Wilmington, Del.
Filed April 1, 1939. Serial No. 417,760. PUBLISHED JUNE 6, 1939. Class 1.

370,278. RESIN USED IN ALL CASES WHERE ROSIN MAY BE USED, SUCH AS IN PAINTS, VARNISHES, SOAPS, PAPER SIZES, BOX TOES, ELECTRICAL INSULATING COMPOUNDS, ADHESIVES, CEMENTS, RUBBER COMPOUNDS, SYNTHETIC RESINS, ETC. HERCULES POWDER COMPANY, Wilmington, Del.
Filed April 1, 1939. Serial No. 417,761. PUBLISHED JUNE 6, 1939. Class 1.

370,279. PEN POINTS. C. HOWARD HUNT PEN CO., Camden, N. J.
Filed April 1, 1939. Serial No. 417,762. PUBLISHED JUNE 6, 1939. Class 37.

370,280. LEATHER. MONARCH LEATHER COMPANY, Chicago, Ill.
Filed April 3, 1939. Serial No. 417,811. PUBLISHED JUNE 6, 1939. Class 1.

370,281. VEGETABLE SHORTENING AND COOKING PRODUCT. SOYA-VITAMIN SALES CORP., New York, N. Y.
Filed April 3, 1939. Serial No. 417,826. PUBLISHED JUNE 13, 1939. Class 46.

370,282. MOTOR OILS. GALENA OIL CORPORATION, Cincinnati, Ohio.
Filed April 4, 1939. Serial No. 417,837. PUBLISHED JUNE 6, 1939. Class 15.

370,283. CELLULOSE MATERIAL IN SHEET FORM USED FOR CURTAINS, DRAPERIES, WINDOW SHADES, ETC. PERVEL CORPORATION, New York, N. Y.
Filed April 4, 1939. Serial No. 417,848. PUBLISHED JUNE 13, 1939. Class 50.

370,284. CLOCKS. SUPPLEE-BIDDLE HARDWARE CO., Philadelphia, Pa.
Filed April 4, 1939. Serial No. 417,853. PUBLISHED JUNE 6, 1939. Class 27.

370,285. COLUMN IN A WEEKLY TRADE PUBLICATION. BARRON'S PUBLISHING CO., Boston, Mass.
Filed April 5, 1939. Serial No. 417,858. PUBLISHED JUNE 13, 1939. Class 38.

370,286. WIPING RAGS AND CLOTHS. FLORENZ NUSHOLTZ, St. Louis, Mo.
Filed April 5, 1939. Serial No. 417,887. PUBLISHED JUNE 6, 1939. Class 29.

370,287. WATER SOLUBLE, TRANSPARENT, PROTECTIVE WALL COATING FOR APPLICATION OVER WASHABLE PAINTED WALLS AND WASHABLE WALL PAPERS. THE BERGONIZE COMPANY, Chicago, Ill.
Filed April 6, 1939. Serial No. 417,902. PUBLISHED JUNE 13, 1939. Class 16.

370,288. FRESH AVOCADOS. SAM J. DAVIS, Homestead, Fla.
Filed April 6, 1939. Serial No. 417,906. PUBLISHED JUNE 13, 1939. Class 46.

370,289. WEEKLY MAGAZINE. JAY EMANUEL PUBLICATIONS, INC., Philadelphia, Pa.
Filed April 6, 1939. Serial No. 417,916. PUBLISHED JUNE 6, 1939. Class 38.

370,290. ALGINATE PRODUCT FOR USE AS A COLLOIDAL STABILIZER IN MERINGUE, ICINGS, AND CONFECTIONERIES. KELCO COMPANY, San Diego, Calif.
Filed April 6, 1939. Serial No. 417,918. PUBLISHED JUNE 13, 1939. Class 46.

370,291. REFRACTORY BRICKS, REFRACTORY PLASTICS, AND REFRACTORY CEMENTS. E. J. LAVINO AND COMPANY, Philadelphia, Pa.
Filed April 6, 1939. Serial No. 417,920. PUBLISHED JUNE 6, 1939. Class 12.

370,292. MATERIAL FOR MAKING CAST REFRACTORY BODIES. E. J. LAVINO AND COMPANY, Philadelphia, Pa.
Filed April 6, 1939. Serial No. 417,923. PUBLISHED JUNE 6, 1939. Class 12.

370,293. REFRACTORY MATERIAL FOR TAP HOLE MIXES. E. J. LAVINO AND COMPANY, Philadelphia, Pa.
Filed April 6, 1939. Serial No. 417,924. PUBLISHED JUNE 6, 1939. Class 12.

370,294. WATCHES AND PARTS OF WATCHES. FABRIQUES MOVADO, La Chaux-de-Fonds, Switzerland.
Filed April 7, 1939. Serial No. 417,959. PUBLISHED JUNE 6, 1939. Class 27.

370,295. MAPS. NATIONAL BROADCASTING COMPANY, INC., New York, N. Y.
Filed April 7, 1939. Serial No. 417,973. PUBLISHED JUNE 13, 1939. Class 38.

370,296. MACARONI. B. FILIPPONE & CO. INC., Passaic, N. J.
Filed April 8, 1939. Serial No. 418,001. PUBLISHED JUNE 13, 1939. Class 46.

370,297. SEED POTATOES. MAINE POTATO GROWERS, INC., Presque Isle, Maine.
Filed April 8, 1939. Serial No. 418,010. PUBLISHED JUNE 13, 1939. Class 1.

370,298. PRINTED TEXTILE FABRICS IN THE PIECE, OF SILK, RAYON, AND COMBINATIONS THEREOF. FOLKER FABRICS, INC., New York, N. Y.
Filed April 10, 1939. Serial No. 418,023. PUBLISHED JUNE 13, 1939. Class 42.

370,299. PRINTED TEXTILE FABRICS IN THE PIECE OF SILK, RAYON, AND COMBINATIONS THEREOF. FOLKER FABRICS, INC., New York, N. Y.
Filed April 10, 1939. Serial No. 418,024. PUBLISHED JUNE 13, 1939. Class 42.

370,300. OLIVE OIL. ALFRED CATANZARO, doing business as A. Catanzaro & Co., Long Island City, N. Y.
Filed April 10, 1939. Serial No. 418,032. PUBLISHED JUNE 13, 1939. Class 46.

370,301. DECALCOMANIA TRANSFERS. CONSOLIDATED DECALCOMANIA CORPORATION, Jamaica, N. Y.
Filed April 10, 1939. Serial No. 418,034. PUBLISHED MAY 30, 1939. Class 38.

370,302. SYRUPS COMPRISING ESSENTIALLY DEXTROSE, LEVULOSE, AND SUCROSE. INDUSTRIAL SUGARS CORPORATION, Chicago, Ill.
Filed April 10, 1939. Serial No. 418,044. PUBLISHED JUNE 13, 1939. Class 46.

370,303. WATCHES AND CLOCKS. LONGINES-WITTNAUER WATCH CO. INC., New York, N. Y.
Filed April 10, 1939. Serial No. 418,047. PUBLISHED JUNE 6, 1939. Class 27.

370,304. WATCHES AND CLOCKS. LONGINES-WITTNAUER WATCH CO. INC., New York, N. Y.
Filed April 10, 1939. Serial No. 418,048. PUBLISHED JUNE 6, 1939. Class 27.

370,305. LUBRICATING OILS AND GREASES. PARAGON OIL CO., INC., Brooklyn, N. Y.
Filed April 10, 1939. Serial No. 418,054. PUBLISHED JUNE 6, 1939. Class 15.

370,306. LUBRICATING OILS, MOTOR OILS, AND MARINE OILS. PARAGON OIL COMPANY, INC., Brooklyn, N. Y.
Filed April 10, 1939. Serial No. 418,055. PUBLISHED JUNE 6, 1939. Class 15.

370,307. CIGARS. A. SENSENBRENNER SONS, Los Angeles, Calif.
Filed April 10, 1939. Serial No. 418,067. PUBLISHED JUNE 6, 1939. Class 17.

370,308. FRESH VEGETABLES. JOHN WIESEHAN, doing business as John Wiesehan & Co., McAllen, Tex.
Filed April 10, 1939. Serial No. 418,086. PUBLISHED JUNE 13, 1939. Class 46.

370,309. FURNITURE POLISH. BLUE LABEL MANUFACTURING COMPANY, Great Falls, Mont.
Filed April 11, 1939. Serial No. 418,090. PUBLISHED JUNE 13, 1939. Class 16.

370,310. CANNED FRUIT JUICES FOR FOOD PURPOSES. ARECIBO FRUIT GROWERS COOPERATIVE ASSOCIATION, Arecibo, P. R.
Filed April 12, 1939. Serial No. 418,130. PUBLISHED JUNE 13, 1939. Class 46.

370,311. SOUND INSULATING AND DEADENING MATERIALS. SAMUEL D. MOORE, doing business as Sam Moore & Co., Cleveland, Ohio.
Filed April 13, 1939. Serial No. 418,202. PUBLISHED JUNE 6, 1939. Class 12.

370,312. WRAPPING PAPER. PENN TOBACCO COMPANY, Wilkes-Barre, Pa.
Filed April 13, 1939. Serial No. 418,209. PUBLISHED JUNE 6, 1939. Class 37.

370,313. FLATWARE AND HOLLOW WARE COMPOSED WHOLLY OR IN PART OF STERLING SILVER. THE WATSON COMPANY, Attleboro, Mass.
Filed April 13, 1939. Serial No. 418,220. PUBLISHED JUNE 13, 1939. Class 28.

370,314. FRESH VEGETABLES. RIPLEY VEGETABLE COMPANY, INC., Mercedes, Tex.
Filed April 14, 1939. Serial No. 418,264. PUBLISHED JUNE 13, 1939. Class 46.

370,315. ELECTRIC VACUUM CLEANERS. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed April 14, 1939. Serial No. 418,267. PUBLISHED JUNE 13, 1939. Class 21.

370,316. WATCHES AND CLOCKS. S. S. KRESGE COMPANY, Detroit, Mich.
Filed April 13, 1939. Serial No. 418,278. PUBLISHED JUNE 13, 1939. Class 27.

370,317. WATCHES—NAMELY, WRIST OR STRAP WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed April 15, 1939. Serial No. 418,288. PUBLISHED JUNE 13, 1939. Class 27.

370,318. WATCHES—NAMELY, WRIST OR STRAP WATCHES. BULOVA WATCH COMPANY, INC., New York, N. Y.
Filed April 15, 1939. Serial No. 418,289. PUBLISHED JUNE 13, 1939. Class 27.

370,319. IMPLEMENT FOR USE BY TAILORS FOR INSERTING LOOPS OF THREAD IN FABRIC. ADOLF ROSENBERGER, doing business as Miracle Patent Company, New York, N. Y.
Filed April 15, 1939. Serial No. 418,312. PUBLISHED JUNE 13, 1939. Class 23.

370,320. ELECTRICAL INSULATORS. OWENS-ILLINOIS GLASS COMPANY, Toledo, Ohio.
Filed April 17, 1939. Serial No. 418,359. PUBLISHED JUNE 13, 1939. Class 21.

370,321. MEAT TENDERING MACHINES AND SLICING MACHINES AND PARTS THEREOF. U. S. SLICING MACHINE COMPANY, La Porte, Ind.
Filed April 17, 1939. Serial No. 418,376. PUBLISHED JUNE 13, 1939. Class 23.

370,322. TOILET SOAPS. H. E. JARVIS & CO., LIMITED, London, England.
Filed April 18, 1939. Serial No. 418,409. PUBLISHED JUNE 6, 1939. Class 4.

370,323. SILVER-PLATED FLATWARE FOR TABLE USE AND THE LIKE. INTERNATIONAL SILVER COMPANY, Meriden, Conn.
Filed April 19, 1939. Serial No. 418,443. PUBLISHED JUNE 13, 1939. Class 28.

370,324. CANVAS DUCK. WELLINGTON SEARS COMPANY, INCORPORATED, New York, N. Y.
Filed April 19, 1939. Serial No. 418,465. PUBLISHED JUNE 13, 1939. Class 42.

370,325. CIGARETTES AND SMOKING TOBACCO. P. LORILLARD COMPANY, New York, N. Y.
Filed April 20, 1939. Serial No. 418,487. PUBLISHED JUNE 13, 1939. Class 17.

370,326. ELECTRIC CONDENSERS OR CAPACITORS, ELECTROLYTIC CONDENSERS OR CAPACITORS, DRY ELECTROLYTIC CONDENSERS. P. R. MALLORY & CO., INC., Indianapolis, Ind.
Filed April 20, 1939. Serial No. 418,489. PUBLISHED JUNE 13, 1939. Class 21.

370,327. VARIABLE INDUCTANCE DEVICES, INDUCTIVE TUNING DEVICES, VARIABLE INDUCTANCE TUNING DEVICES CONTINUOUSLY VARIABLE SLIDE WIRE INDUCTIVE TUNING DEVICES. P. R. MALLORY & CO., INC., Indianapolis, Ind.
Filed April 20, 1939. Serial No. 418,490. PUBLISHED JUNE 13, 1939. Class 21.

370,328. INTERNAL COMBUSTION ENGINES. WRIGHT AERONAUTICAL CORPORATION, Paterson, N. J.
Filed April 20, 1939. Serial No. 418,502. PUBLISHED JUNE 13, 1939. Class 23.

370,329. POWER LAWN MOWERS. ECLIPSE LAWN MOWER COMPANY, Prophetstown, Ill.
Filed April 21, 1939. Serial No. 418,514. PUBLISHED JUNE 13, 1939. Class 23.

370,330. POWER LAWN MOWERS. ECLIPSE LAWN MOWER COMPANY, Prophetstown, Ill.
Filed April 21, 1939. Serial No. 418,515. PUBLISHED JUNE 13, 1939. Class 23.

370,331. WHISKEY, GIN, RUM, BRANDY, AND ALCOHOLIC CORDIALS. JAS. E. PEPPER & COMPANY, Lexington, Ky., and New York, N. Y.
Filed April 21, 1939. Serial No. 418,530. PUBLISHED JUNE 13, 1939. Class 49.

370,332. SHOVELS, SPADES, AND SCOOPS. THE WOOD SHOVEL AND TOOL COMPANY, Piqua, Ohio.
Filed April 21, 1939. Serial No. 418,547. PUBLISHED JUNE 13, 1939. Class 23.

370,333. PAPER TOY. MCLOUGHLIN BROS., INC., Springfield, Mass.
Filed April 21, 1939. Serial No. 418,550. PUBLISHED JUNE 13, 1939. Class 22.

370,334. PAINT AND VARNISH REMOVER. O. & R. PRODUCTS, INC., New York, N. Y.
Filed April 22, 1939. Serial No. 418,590. PUBLISHED JUNE 13, 1939. Class 16.

370,335. BITUMINOUS PAVING MIXTURE. THE WAIT ASSOCIATES, INC., New York, N. Y.
Filed April 22, 1939. Serial No. 418,611. PUBLISHED JUNE 13, 1939. Class 12.

370,336. LIGHTWEIGHT AGGREGATE. THE CELOTEX CORPORATION, Chicago, Ill.
Filed April 24, 1939. Serial No. 418,625. PUBLISHED JUNE 13, 1939. Class 1.

370,337. MINERAL SURFACED ROLL ROOFING AND SOFT PLASTIC CEMENT COMPRISING ASPHALT AND THE LIKE AS A BASE AND A THINNER FOR SEALING THE LAPS OF ROOFING. THE CELOTEX CORPORATION, Chicago, Ill.
Filed April 24, 1939. Serial No. 418,626. PUBLISHED JUNE 13, 1939. Class 12.

370,338. ROLL ROOFING. THE CELOTEX CORPORATION, Chicago, Ill.
Filed April 24, 1939. Serial No. 418,627. PUBLISHED JUNE 13, 1939. Class 12.

370,339. LUBRICATING OILS. TRIPLEX OIL REFINING COMPANY, INC., Long Island City, N. Y.
Filed April 24, 1939. Serial No. 418,660. PUBLISHED JUNE 13, 1939. Class 15.

370,340. TOILET BRUSHES. COSBY BRUSH & IMPORT COMPANY, INC., New York, N. Y.
Filed April 25, 1939. Serial No. 418,677. PUBLISHED JUNE 13, 1939. Class 29.

370,341. GRANITE MONUMENTS AND MEMORIALS. MEMORIALS PERMANESQUE INC., Barre, Vt.
Filed April 26, 1939. Serial No. 418,723. PUBLISHED JUNE 13, 1939. Class 50.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

370,342. (CLASS 47. WINES.) OFFICE TUNISIEN DE STANDARDISATION, Tunis, Tunisia. Filed June 6, 1936. Serial No. 379,390. Under act of Mar. 19, 1920, as amended June 10, 1938.



For Wines.
Claims use since Jan. 18, 1934.

370,343. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) OFFICE TUNISIEN DE STANDARDISATION, Tunis, Tunisia. Filed June 6, 1936. Serial No. 379,392. Under act of Mar. 19, 1920, as amended June 10, 1938.



For Sponges.
Claims use since Jan. 18, 1934.

370,344. (CLASS 15. OILS AND GREASES.) OFFICE TUNISIEN DE STANDARDISATION, Tunis, Tunisia. Filed June 6, 1936. Serial No. 379,393. Under act of Mar. 19, 1920, as amended June 10, 1938.



For Olive Oils Either Alone or in Mixture with Other Oils for Lubricating Purposes.
Claims use since Jan. 18, 1934.

370,345. (CLASS 30. CROCKERY, EARTHENWARE, AND PORCELAIN.) OFFICE TUNISIEN DE STANDARDISATION, Tunis, Tunisia. Filed June 6, 1936. Serial No. 379,394. Under act of Mar. 19, 1920, as amended June 10, 1938.



For Cups, Saucers, Jugs, Plates, Vases, Bowls, Pots, Trays, Dishes, Mugs, Platters, Crocks, Jars, Bottles, Decanters, and Pitchers, All of Earthenware.
Claims use since Jan. 18, 1934.

370,346. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) OFFICE TUNISIEN DE STANDARDISATION, Tunis, Tunisia. Filed June 6, 1936. Serial No. 379,395. Under act of Mar. 19, 1920, as amended June 10, 1938.



For Knitted and Netted Piece Goods—Namely, Wool or Cotton Carpets, Woolen and Silk Piece Goods.
Claims use since Jan. 18, 1934.

370,347. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) OFFICE TUNISIEN DE STANDARDISATION, Tunis, Tunisia. Filed June 6, 1936. Serial No. 379,396. Under act of Mar. 19, 1920, as amended June 10, 1938.



For Olive Oil, Honey, Eggs, Barley; and Fresh, Dried, and Preserved Fruits, Vegetables, and Berries.
Claims use since Jan. 18, 1934.

370,348. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) THE ASPINOOK COMPANY, Jewett City, Conn., assignor to The Aspinook Corporation, Jewett City, Conn., a corporation of Delaware. Filed May 10, 1937. Serial No. 392,515.

Slipnaught

For Woven Textile Fabrics Made of Rayon, Rayon and Cotton, Rayon and Wool, Silk, Silk and Rayon, Cotton, Silk and Cotton, and Linen Chemically or Otherwise Treated After Weaving to Render Them Less Liable to Slip and Fray.
Claims use since Apr. 12, 1937.

370,349. (CLASS 2. RECEPTACLES.) FLOYD M. WILLIAMSON, Detroit, Mich. Filed July 10, 1937. Serial No. 395,105.

CLEARVIEW

For Unfilled Vanity Cases for Cosmetics.
Claims use since May 10, 1937.

370,350. (CLASS 12. CONSTRUCTION MATERIALS.) CERTAIN-TEED PRODUCTS CORPORATION, New York, N. Y. Filed May 24, 1937. Serial No. 393,156.

TUF-TITE

For Webs or Sheets of Sheathing and Insulating and Damp Proof Material Used as Construction Material.
Claims use since July 22, 1931.

370,351. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) MONARCH LEATHER COMPANY, Chicago, Ill. Filed July 16, 1937. Serial No. 395,308.

ALPINE SIDES

For Leather.
Claims use since Mar. 31, 1931.

370,352. (CLASS 35. BELTING, HOSE, MACHINERY PACKING, AND NONMETALLIC TIRES.) THE STEEL IMPROVEMENT & FORGE CO., Cleveland, Ohio. Filed Feb. 16, 1938. Serial No. 403,099.

GRUV SEAL

For Forged Iron Ring Gaskets.
Claims use since June 24, 1935.

370,353. (CLASS 12. CONSTRUCTION MATERIALS.) PLASTERGON WALL BOARD COMPANY, Buffalo, N. Y. Filed Mar. 2, 1938. Serial No. 403,613.

PAINTCOTE

For Insulating Board.
Claims use since Feb. 16, 1938.

370,354. (CLASS 3. BAGGAGE, ANIMAL EQUIPMENTS, PORTFOLIOS, AND POCKETBOOKS.) THE NU-MODE BAG CO., INC., South Norwalk, Conn. Filed May 26, 1938. Serial No. 406,772.

KLEENKAF

For Ladies' Handbags Made of Calf Skin.
Claims use since May 20, 1938.

370,355. (CLASS 12. CONSTRUCTION MATERIALS.) MASON CITY BRICK AND TILE COMPANY, Mason City, Iowa. Filed June 22, 1938. Serial No. 407,759.

KWIKLAY

For Building Tile.
Claims use since Apr. 5, 1938.

370,356. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) HELENA RUBINSTEIN, INC., New York, N. Y. Filed July 14, 1938. Serial No. 408,510.

RED CRANBERRY

For Lipsticks and Rouges for Cosmetic Purposes.
Claims use since June 1, 1938.

370,357. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) GEORGE C. MOORE COMPANY, Westerly, R. I. Filed July 23, 1938. Serial No. 408,852.

ALWAY STRETCH

For Wide Elastic Fabrics in the Piece.
Claims use since July 11, 1938.

370,358. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) RAY J. RANKIN, Topeka, Kans. Filed Aug. 6, 1938. Serial No. 409,331.

Marion Miller

For Cosmetics—Namely, Shampoo, Hair Tonic, Lipstick, Rouge, Face Powder, Nail Polish, Face Creams, Eye Shadows, Perfumes, Toilet Waters, and Sachets.
Claims use since July 10, 1938.

370,359. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) ANDREW WILSON INC., Springfield, N. J. Filed Aug. 12, 1938. Serial No. 409,543.

INSECT-O-SOAP

For Saponified Liquid Soap for Use with Insecticides as a Carrier or Spreader.
Claims use since June 16, 1938.

370,360. (CLASS 1. RAW OR PARTLY PREPARED MATERIALS.) ERICH CAHN, doing business as Better Turf Products Co., New York, N. Y. Filed Sept. 23, 1938. Serial No. 410,897.



For Lawn Seed and Other Grass Seeds.
Claims use since May 10, 1938.

370,361. (CLASS 15. OILS AND GREASES.) CATO OIL & GREASE COMPANY, Oklahoma City, Okla. Filed Sept. 26, 1938. Serial No. 410,987.

LIMPID LUBE

For Lubricating Oils and Greases.
Claims use since Apr. 18, 1938.

370,362. (CLASS 16. PAINTS AND PAINTERS' MATERIALS.) A. KRASNE, INC., New York, N. Y. Filed Sept. 26, 1938. Serial No. 410,997.



For Lemon Oil Furniture Polish.
Claims use since July 8, 1938.

370,363. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) A. KRASNE, INC., New York, N. Y. Filed Sept. 26, 1938. Serial No. 410,998.



For General Household Cleanser and Scouring Compound.
Claims use since July 8, 1938.

370,364. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) A. KRASNE, INC., New York, N. Y. Filed Sept. 26, 1938. Serial No. 410,999.



For Ammonia.
Claims use since July 8, 1938.

370,365. (CLASS 15. OILS AND GREASES.) GEO. D. MEYER, doing business as Wholesale Petroleum Products Corp., Cincinnati, Ohio. Filed Sept. 26, 1938. Serial No. 411,005.



For Motor Oil.
Claims use since Sept. 1, 1937.

370,366. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) PETER GELB, Los Angeles, Calif. Filed Oct. 31, 1938. Serial No. 412,223.

Nv-Wax

For Depilatory Product for the Removal of Hair.
Claims use since June 1, 1938.

370,367. (CLASS 50. MERCHANDISE NOT OTHERWISE CLASSIFIED.) AMERICAN SEAL-KAP CORPORATION OF DELAWARE, Long Island City, N. Y. Filed Nov. 2, 1938. Serial No. 412,280.



For Milk Bottle Caps.
Claims use since February, 1936.

370,368. (CLASS 32. FURNITURE AND UPHOLSTERY.) UNITED STATES CABINET BED CO., Brooklyn, N. Y. Filed Jan. 14, 1939. Serial No. 414,846.

Sleepchair

For Couch Beds.
Claims use since July 18, 1938.

370,369. (CLASS 39. CLOTHING.) GIMBEL BROTHERS, INC., New York, N. Y. Filed Feb. 7, 1939. Serial No. 415,712.

MODERNA

For Women's, Girls', and Children's Wearing Apparel—Namely, Coats, Suits, Dresses, Blouses, Outer Skirts, Underwear; Leather, Fabric, and Rubber Gloves, and Scarfs.
Claims use since Aug. 26, 1930.

370,370. (CLASS 4. ABRASIVE, DETERGENT, AND POLISHING MATERIALS.) NATHAN H. EHRLICH, Charlotte, N. C. Filed Feb. 10, 1939. Serial No. 415,889.



For Preparation for Preventing Collection of Moisture on Windshields of Automobiles.
Claims use since Jan. 1, 1917.

370,371. (CLASS 11. INKS AND INKING MATERIALS.) GEORGE T. HUDSPETH, Dallas, Tex. Filed Mar. 13, 1939. Serial No. 417,011.

FILM RIBBON

For Carbon Transfer Ribbons.
Claims use since Oct. 10, 1936.

370,372. (CLASS 29. BROOMS, BRUSHES, AND DUSTERS.) KEELING COMPANY, INC., Des Moines, Iowa. Filed Mar. 13, 1939. Serial No. 417,015.

TWOway TWOth BRUSH

For Tooth Brushes.
Claims use since May 19, 1937.

370,373. (CLASS 39. CLOTHING.) G. FOX & CO., INC., Hartford, Conn. Filed Apr. 14, 1939. Serial No. 418,242.

Jean Sawyer

For Women's and Misses' Dresses, Coats, Suits, Jackets, Outer Skirts, Slacks, Trousers, Snow Suits, Sweaters, Blouses, Knitted Suits, Knitted Dresses, Hats; Gloves Made of Fabric or Leather or a Combination of These Materials; Scarfs, Hosiery, Socks, Slips, Dressing Gowns, Panties, Combinettes—Namely, a Lingerie Garment Consisting of a Pair of Panties and a Vest, Girdles, Negligees, Lounging Robes, Bath Robes, Beach Robes, House Coats, Pajamas; Slippers Made of Leather, Rubber, or Fabric, or a Combination of Said Materials, and Shoes Made of Leather, Rubber, or Fabric, or a Combination of These Materials.
Claims use since 1934.

370,374. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE SELIG COMPANY, Atlanta, Ga. Filed Apr. 26, 1939. Serial No. 418,748.

GRAINFUME

For Insecticides.
Claims use since Jan. 1, 1938.

370,375. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) WILLIAM TYRELL JONES, doing business as Wm. Tyrell Jones Co., Detroit, Mich. Filed Apr. 28, 1939. Serial No. 418,835.

Tyrell's
EXTERMINATOR

For Compounds for the Extermination of Pests.
Claims use since October, 1936.

370,376. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) THE ROSS RESEARCH COMPANY, Copenhagen, N. Y. Filed May 1, 1939. Serial No. 418,947.

SHURHELE

For Antiseptic Liniment.
Claims use since May 1, 1937.

370,377. (CLASS 12. CONSTRUCTION MATERIALS.) PANTHER OIL & GREASE MFG. CO., doing business as The Zone Company, Fort Worth, Tex. Filed May 11, 1939. Serial No. 419,309.

HEAVY DUTY

For Liquid Asbestos Roof Coating and Plastic Roof Cement.
Claims use since Nov. 9, 1936.

370,378. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) KASCO MILLS, INC., Toledo, Ohio. Filed May 18, 1939. Serial No. 419,556.

"BACKED by RESEARCH · PROVED by USE..." TRADE MARK

For a Feed for Poultry or Live Stock or Dogs.
Claims use since February, 1938.

370,379. (CLASS 12. CONSTRUCTION MATERIALS.) SOUTHERN STATES IRON ROOFING COMPANY, Savannah, Ga. Filed May 24, 1939. Serial No. 419,774.

EVERWEAR

For Metal Roofing.
Claims use since Jan. 2, 1919.

370,380. (CLASS 6. CHEMICALS, MEDICINES, AND PHARMACEUTICAL PREPARATIONS.) MEAD JOHNSON & COMPANY, Evansville, Ind. Filed June 10, 1939. Serial No. 420,380.

MEAD'S

For Viosterol, i. e. Activated Ergosterol in Oil; Halibut Liver Oil; Oil of Percomorph Fishes; Oil of Percomorph Fishes, with Malt Syrup; Cod Liver Oil Fortified with Percomorph Liver Oil; Cod Liver Oil with Viosterol; Cod Liver Oil; Thiamin Chloride Tablets; Nicotinic Acid Tablets; and Cevitamic Acid Tablets.
Claims use since Oct. 1, 1923.

370,381. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) MARVIN K. HEDGE, Portland, Oreg., and Norwich, N. Y. Filed July 17, 1939. Serial No. 421,651.

HEDGE

For Fishing Tackle and Accessories—Namely, Lines, Rods, Reels, Flies, Leaders, Handles, Thumb Rests, Hooks, Plugs, Lures, Bait, Landing Nets, Gaff Hooks, Line Dressing, Fly Oil, Sinkers, and Creels.
Claims use since March, 1935.

TRADE-MARK REGISTRATIONS RENEWED

122,569. **BATES-STREET.** MEN'S COTTON, LINEN, AND SILK FABRIC OVERSHIRTS, UNDERSHIRTS, UNDERDRAWERS, AND NIGHT-ROBES. Registered August 27, 1918. BATES STREET SHIRT COMPANY, Lewiston, Maine. Renewed August 27, 1938, to Vincent Bruno, doing business as Bates Street Shirt Company, New York, N. Y., assignee by mesne assignments.

125,680. **SONORA.** TALKING-MACHINE CABINETS AND PHONOGRAPH-CABINETS. Registered June 3, 1919. SONORA PHONOGRAPH CORPORATION, New York, N. Y. Renewed June 3, 1939, to Simon Frankel, Chicago, Ill., successor.

125,991. **WONDERSPUN.** SILK PIECE GOODS. Registered July 22, 1919. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Renewed July 22, 1939, to A. D. Juilliard & Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

126,160. **STEELCRAFT.** AUTOMOBILE-FRAMES. Registered July 29, 1919. THE HYDRAULIC PRESSED STEEL COMPANY, Cleveland, Ohio. Renewed July 29, 1939, to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan, assignee by mesne assignments.

126,521. **D AND ONE STAR.** MILLED LUMBER. Registered September 16, 1919. R. J. DARNELL, INCORPORATED, Memphis, Tenn. Renewed September 16, 1939, to Chicago Mill and Lumber Company, Chicago, Ill., a corporation of Delaware, successor.

126,522. **D AND TWO STARS.** MILLED LUMBER. Registered September 16, 1919. R. J. DARNELL, INCORPORATED, Memphis, Tenn. Renewed September 16, 1939, to Chicago Mill and Lumber Company, Chicago, Ill., a corporation of Delaware, successor.

126,530. **GUILDCREPE.** SILK PIECE GOODS. Registered September 16, 1919. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Renewed September 16, 1939, to A. D. Juilliard & Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

126,620. **QUICK MALT.** A BREAKFAST-CEREAL IN FLAKE FORM. Registered September 30, 1919. AMERICAN HOMINY COMPANY. Renewed September 30, 1939, to Evans Milling Company, Indianapolis, Ind., a corporation of Indiana, assignee.

126,684. **LARIAT.** CATTLE-DIP. Registered September 30, 1919. GENERAL CHEMICAL COMPANY, New York, N. Y.. a corporation of New York. Renewed September 30, 1939.

127,363. **NOFADE.** COTTON AND SILK PIECE GOODS. Registered November 11, 1919. COMMERCIAL SHIRT COMPANY. Renewed November 11, 1939, to Commercial Shirt Corporation, New York, N. Y., a corporation of New York, assignee by mesne assignments.

127,523. **MOYO.** GRAPE-PACKING MADE OF REDWOOD SAWDUST, CUT AND SHREDDED TANBARK. Registered November 11, 1919. UNION LUMBER COMPANY, San Francisco, Calif., a corporation of California. Renewed November 11, 1939.

127,694. **SALVEX.** DENTAL CREAMS. Registered November 18, 1919. BURTON E. TURNEY, Bridgeport, Conn. Renewed November 18, 1939.

127,887. **HUMMING BIRD.** FRESH CITRUS FRUITS—NAMELY, ORANGES AND LEMONS. Registered December 9, 1919. TAPO CITRUS ASS'N, Santa Susana, Calif. Renewed December 9, 1939, to Tapo Citrus Association, Simi, Calif., a corporation of California.

128,167. **LESCO.** CLEANSING COMPOUND. Registered December 23, 1919. LESTER E. SCOTT, Southington, Conn. Renewed December 23, 1939, to James Small, Warren, R. I., assignee.

128,232. **A POINTED OVAL.** POWDERED BUTTERMILK. Registered December 30, 1919. COLLIS PRODUCTS COMPANY, Clinton, Iowa. Renewed December 30, 1939, to Kraft-Phenix Cheese Corporation, Chicago, Ill., a corporation of Delaware, assignee by mesne assignments.

128,238. **CHANTICLEER.** WRITING-PAPER. Registered December 30, 1919. FOX RIVER PAPER CO. Renewed December 30, 1939, to Fox River Paper Corporation, Appleton, Wis., a corporation of Wisconsin, assignee.

128,334. **VELUMET.** CERTAIN NAMED PAPER AND STATIONERY. Registered January 6, 1920, to A. M. COLLINS MANUFACTURING COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed January 6, 1940.

128,373. **ESCOLITE.** CERTAIN NAMED PAPER. Registered January 6, 1920. ESLEECK MANUFACTURING CO., Turners Falls, Mass., a corporation of Massachusetts. Renewed January 6, 1940.

128,449. **M C CO.** SPECTACLES, SPECTACLE-FRAMES, AND MOUNTINGS FOR EYEGLASSES. Registered January 6, 1920. MARTIN-COPELAND COMPANY, Providence, R. I., an association of Rhode Island. Renewed January 6, 1940.

128,462. **LIFE SAVERS.** CHEWING-GUM AND CANDY. Registered January 6, 1920. MINT PRODUCTS COMPANY, INC., New York, N. Y. Renewed January 6, 1940, to Life Savers Corporation, Port Chester, N. Y., a corporation of Delaware, assignee by mesne assignments.

128,466. **KARZONE.** A CHEMICAL CARBON-SOLVENT AND FUEL-SAVER. Registered January 6, 1920. W. F. MYERS, Cambridge, Ohio. Renewed January 6, 1940.

128,527. **LIBERTAD.** LAUNDRY BLUE. Registered January 6, 1920. THE STANDARD ULTRAMARINE CO., Huntington, W. Va., a corporation of West Virginia. Renewed January 6, 1940.

128,536. **TAPO.** FRESH CITRUS FRUITS—NAMELY, ORANGES AND LEMONS. Registered January 6, 1920. TAPO CITRUS ASS'N, Santa Susana, Calif. Renewed January 6, 1940, to Tapo Citrus Association, Simi, Calif., a corporation of California.

128,636. **LA MONA.** TOILET WATER. Registered January 13, 1920. THE BONHEUR CO. INC., Syracuse, N. Y. Renewed January 13, 1940, to The Bonheur Co., Inc., New York, N. Y., a corporation of New York.

128,644. **LILY.** WOMEN'S DRESS-SHIELDS. Registered January 13, 1920. BROOKLYN SHIELD & RUBBER CO. Renewed January 13, 1940, to Rand Rubber Company, Inc., Brooklyn, N. Y., a corporation of New York, by change of name.

128,686. **EMCO.** BOND-PAPER, CORRESPONDENCE, NON-CARBONIZED TYPEWRITER, AND NON-CARBONIZED MANIFOLD PAPERS AND ONION-SKIN PAPERS. Registered January 13, 1920. ESLEECK MANUFACTURING CO., Turners Falls, Mass., a corporation of Massachusetts. Renewed January 13, 1940.

128,687. **RECORDER.** BOND-PAPER, CORRESPONDENCE, NON-CARBONIZED TYPEWRITER PAPER, AND MANIFOLD WRITING-PAPERS AND ONION-SKIN PAPERS. Registered January 13, 1920. ESLEECK MANUFACTURING CO., Turners Falls, Mass., a corporation of Massachusetts. Renewed January 13, 1940.

128,752. **KOPPEL.** CERTAIN NAMED MACHINERY. Registered January 13, 1920. KOPPEL INDUSTRIAL CAR & EQUIPMENT COMPANY, Koppel and Pittsburgh, Pa. Renewed January 13, 1940, to Pressed Steel Car Company, Inc., Pittsburgh, Pa., a corporation of Pennsylvania, assignee.

128,891. **VICTOR.** ADDING AND CALCULATING MACHINES. Registered January 13, 1920. VICTOR ADDING MACHINE CO., Chicago, Ill., a corporation of Illinois. Renewed January 13, 1940.

LABELS

REGISTERED AUGUST 22, 1939

53,402.—*Title:* BEECH-NUT LUSTER-MINTS. For Peppermints. BEECH-NUT PACKING COMPANY, Canajoharie, N. Y. Published July 26, 1939.

53,403.—*Title:* CLOVER CLUB. For Root Beer. BROOKLYN BEVERAGE COMPANY, Cleveland, Ohio. Published November 10, 1938.

53,404.—*Title:* BURBANK'S ORION BRAND. For Boysenberries. ORION ALLEN BURBANK, Los Angeles, Calif. Published October 15, 1938.

53,405.—*Title:* BUNASCO. For Turpentine. BUTLER NAVAL STORES COMPANY, INC., Butler, Ga. Published July 26, 1938.

53,406.—*Title:* C AND H SUGAR PURE CANE CUBELETS. For Sugar. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, LIMITED, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. Published July 14, 1939.

53,407.—*Title:* C AND H SUGAR PURE CANE BERRY GRANULATED. For Sugar. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, LIMITED, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. Published July 14, 1939.

53,408.—*Title:* C AND H SUGAR PURE CANE EXTRA HARD CUBELETS. For Sugar. CALIFORNIA AND HAWAIIAN SUGAR REFINING CORPORATION, LIMITED, doing business as California and Hawaiian Sugar Refining Corporation, San Francisco, Calif. Published July 14, 1939.

53,409.—*Title:* GLASSTEEL. For Developing Trays. COLUMBIAN ENAMELING & STAMPING CO., INC., Terre Haute, Ind. Published May 24, 1939.

53,410.—*Title:* HYPONEX PLANT FOOD. For Hydroponic Chemicals for Soil or Soilless Culture. HYDROPONIC CHEMICAL COMPANY, INC., New York, N. Y. Published June 28, 1939.

53,411.—*Title:* HYPONEX PLANT FOOD. For Hydroponic Chemicals for Soil or Soilless Culture. HYDROPONIC CHEMICAL COMPANY, INC., New York, N. Y. Published June 28, 1939.

53,412.—*Title:* GLEAM OLEOMARGARINE. For Oleomargarine. MEADOLAKE FOODS, INC., Sherman, Tex. Published May 3, 1939.

53,413.—*Title:* GRAYSON OLEOMARGARINE. For Oleomargarine. MEADOLAKE FOODS, INC., Sherman, Tex. Published June 16, 1939.

53,414.—*Title:* SOUFFLE CUPS. For Souffle Cups. MILWAUKEE LACE PAPER COMPANY, Milwaukee, Wis. Published July 10, 1939.

53,415.—*Title:* ONEIDA. For Ale. ONEIDA BREWING CO., INC., Utica, N. Y. Published July 20, 1939.

53,416.—*Title:* ONEIDA. For Lager Beer. ONEIDA BREWING CO., INC., Utica, N. Y. Published July 20, 1939.

53,417.—*Title:* PEGITY. For a Game. PARKER BROTHERS, INC., Salem, Mass. Published June 1, 1939.

53,418.—*Title:* CONTACK. For a Game. PARKER BROTHERS INC., Salem, Mass. Published May 10, 1939.

53,419.—*Title:* CONTACK. For a Game. PARKER BROTHERS INC., Salem, Mass. Published May 10, 1939.

53,420.—*Title:* SEASONED BUBBLES. For Popcorn. H. T. RESTEMEIER POTATO CHIP CO., Cleveland, Ohio. Published June 15, 1939.

53,421.—*Title:* REVERE. For High Speed Safety Films for Cameras. REVERE CAMERA COMPANY, Chicago, Ill. Published May 5, 1939.

53,422.—*Title:* HAPPY TIMES TABLES. For a Game. LOUIS RUBIN, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Published June 7, 1939.

53,423.—*Title:* PICTURE STENCILING. For Picture Stenciling Sets. LOUIS RUBIN, doing business as New York Toy & Game Manufacturing Co., New York, N. Y. Published June 7, 1939.

53,424.—*Title:* HAPPY POP CORN. For Pop Corn. HARRY RYBA, doing business as Karmel Konfection Kitchen, Detroit, Mich. Published July 3, 1939.

53,425.—*Title:* SCULL COFFEE READY TO DRINK. For Coffee. WILLIAM S. SCULL COMPANY, Camden, N. J. Published June 1, 1939.

53,426.—*Title:* VIGNETTE. For Nectarines. THE UNITED STATES PRINTING & LITHOGRAPH COMPANY, Cincinnati, Ohio, and St. Charles, Ill. Published February 1, 1939.

53,427.—*Title:* DOUBL-TITE. For Blow-Out Proof Mufflers. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Published April 1, 1939.

PRINTS

REGISTERED AUGUST 22, 1939

17,539.—*Title:* CAREER MEN. For Boys' Clothes and Toys. DESMOND'S, Los Angeles, Calif. Published December 12, 1938.

17,540.—*Title:* CHECK THESE MANY INSIDE FEATURES FOUND IN HEALTH SPOT SHOES STRUCTURAL ENGINEERS THESE CONCEALED COMFORT FEATURES. For Shoes. MUSEBECK SHOE COMPANY, Danville, Ill. Published May 31, 1939.

17,541.—*Title:* DON'T WALK LIKE THIS! WALK THE HEALTH SPOT WAY! WALK LIKE THIS. For Shoes. MUSEBECK SHOE COMPANY, Danville, Ill. Published July 7, 1939.

REISSUES

AUGUST 22, 1939

21,177
INTERNAL COMBUSTION ENGINE

Jean A. H. Barkeij, Altadena, Calif.

Original No. 1,911,874, dated May 30, 1933, Serial No. 414,809, December 17, 1929, which is a continuation of Serial No. 753,609, December 3, 1924. Application for reissue June 21, 1937, Serial No. 149,749

28 Claims. (Cl. 123—54)



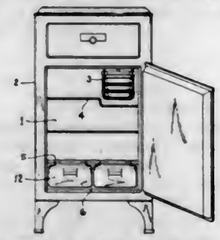
1. In an internal combustion engine of the V type, having 8 cylinders arranged in two groups of four cylinders in two planes at an angle equal or smaller than 45°, the even numbered cylinders in one plane, the uneven numbered cylinders in the other plane, said cylinders numbered successively 1 to 8, a crankshaft having as many crankpins as cylinders, arranged in four radial planes, said crankpins arranged in two groups of four crankpins, each group composed of two outer crankpins, the pistons of which reach their top positions simultaneously, and composed of two inner crankpins, the pistons of which reach their top positions equally simultaneously, the pistons belonging to only one of said pairs reaching their top positions at the same time.

21,178
REFRIGERATION APPARATUS

Gregg F. Forsthoefel, Adrian, Mich., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Original No. 2,072,446, dated March 2, 1937, Serial No. 712,490, February 23, 1934. Application for reissue February 14, 1939, Serial No. 256,321

4 Claims. (Cl. 62—89)



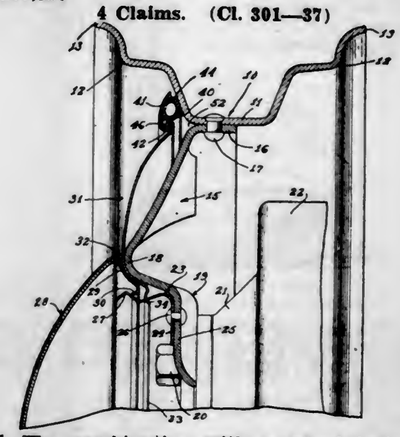
1. In refrigerating apparatus, the combination of a food storage compartment, a cooling element for abstracting heat from the food storage compartment, a shelf in said food storage compartment for supporting articles to be cooled, at least a portion of said shelf being substantially imperforate, a crisping pan disposed below said shelf, means for slidably supporting said crisping pan from said shelf, and said imperforate shelf portion covering said crisping pan to form therewith a closed receptacle in which the circulation of air is restricted and dehydration of the foodstuffs therein reduced.

21,179
ORNAMENTAL WHEEL DISK

George Albert Lyon, Allenhurst, N. J.

Original No. 2,016,251, dated October 1, 1935, Serial No. 757,113, December 12, 1934. Application for reissue November 5, 1936, Serial No. 109,320

4 Claims. (Cl. 301—37)



1. The combination with a wheel including integral rim and hub parts, of an ornamental unitary circular disk of relatively thin sheet material for dispositon inside the rim part over the outer side of the wheel, and held in cooperation with the rim part solely by a snap-on engagement with the hub part, said hub part of the wheel having a plurality of central hub cap retaining spring elements, as well as a hub cap in cooperation therewith, and said disk having a central portion disposed between the hub cap and the hub part so as to be clamped into position by the snapping of the hub cap into retained engagement with the spring elements, said disk also having its central portion provided with a plurality of notches through which the spring elements extend, whereby the spring elements are free to be flexed into retaining engagement with the hub cap without any interference from the central portion of the disk.

21,180
ROTARY DISK EDGING MACHINE

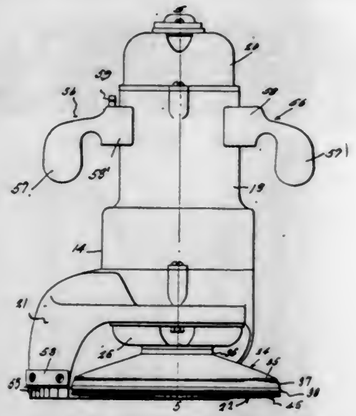
Harry L. Myers, Toledo, Ohio, assignor to The American Floor Surfacing Machine Company, Toledo, Ohio, a corporation of Ohio

Original No. 1,951,105, dated March 13, 1934, Serial No. 655,106, February 3, 1933. Application for reissue February 14, 1936, Serial No. 63,939

14 Claims. (Cl. 51—177)

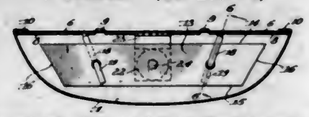
1. An edging machine of the class described comprising a vertically elongated motor and casing unit, a substantially vertical shaft mounted for rotation in bearings in said casing unit, operating means for the shaft, a disk-like abrading tool operatively attached to the shaft and disposed in a plane substantially parallel to the work, means on said unit for tilting the support, shaft, and inclining the tool to limit the abrading contact area thereof with the work, an annulus mounted for idling rotation on the casing above

the tool and provided with a marginal abutment flange located in close proximity to the edge portion of the tool, said flange having its extreme lower edge portion reduced in dimensions to pro-



vide a feather-like edge to rest against the bead or wall-board as the case may be, and to prevent the tool from coming into destructive contact with the bead.

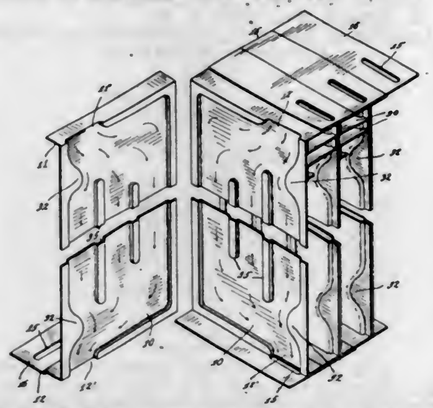
21,181
SIGNAL DEVICE
Arthur E. Rittenhouse and Lloyd Rittenhouse, Honeoye Falls, N. Y., assignors to The A. E. Rittenhouse Co., Inc., Honeoye Falls, N. Y., a corporation of New York
Original No. 2,120,153, dated June 7, 1938, Serial No. 113,392, November 30, 1936. Application for reissue May 23, 1939, Serial No. 275,252
7 Claims. (Cl. 177—7)



7. A musical chime signal device comprising a closed resonance chamber including top, bottom, front and back walls, said front and back walls being separable one from the other, a vibratable element comprising a plate located within said resonance chamber and spaced from the walls thereof, supporting means engaging the plate at two points and acting to permit vibration of the plate and to prevent bodily swinging movement thereof one wall of the resonance chamber having an opening opposite a portion of said vibratable plate, and electromagnetic striker operating means arranged within said resonance chamber and carried by said back wall to actuate a striker against the vibratable plate, the vibratable plate being located between said opening and said striker operating means, the area of said opening being considerably less than the area of said plate.

PATENTS
GRANTED AUGUST 22, 1939

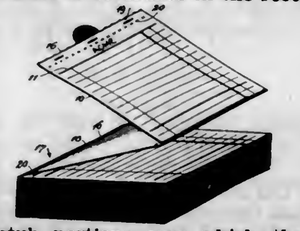
2,169,993
RADIATOR
Earl C. Booth, Columbus, Ind., assignor to Noblitt-Sparks Industries, Inc., Columbus, Ind., a corporation of Indiana
Application April 12, 1937, Serial No. 136,265
5 Claims. (Cl. 257—139)



1. In a radiator core, a plurality of similar sheet-metal stampings each extending longitudinally of the core and provided at its ends with parallel flanges extending laterally in the same direction from the body of the stamping, one of said flanges being wider than the other, each of said stampings being provided in the face opposite said flanges with a longitudinally extending channel opening at its ends through said flanges, said stampings being arranged in pairs with the two stampings of each pair having their channels in opposed relation to define a fluid passage and with the broader flange of each stamping overlapping one end of the fluid passage between an adjacent pair of stampings, said broader flanges having holes alined with the fluid passages which they respectively overlap, and headers secured to the core-body at opposite ends thereof and overlapping said flange-openings.

2,169,994
MANIFOLDING
Carl W. Brenn, Montclair, N. J., assignor to Autographic Register Company, Hoboken, N. J., a corporation of New Jersey
Application January 13, 1936, Serial No. 58,863
1 Claim. (Cl. 282—12)

A manifolding pack comprising a plurality of continuous runner record strips; a continuous transfer strip interleaved between each two record strips in superposed relation, said strips being longer than a single form length and being provided at form length intervals with registered transverse weakening severance lines along which the strips may collectively be severed into form lengths to provide a set of record and transfer sheets, each form length of the transfer strip having a tab lying in a space in the next adjacent form length of the transfer strip to provide a grip-escape space at one margin of the transfer sheet of each severed set of form length record and transfer sheets as a result of the severing thereof; means securing each set of superposed form lengths of record and transfer sheets together along margins thereof transverse to the length of the pack, and transverse lines of severance in the record strips adjacent the first-named lines of severance but spaced from the latter beyond said securing means, said transverse lines of severance in the record strips



defining stub portions over which the record sheets of a form length set of record and transfer sheets may be snapped when all the sheets of said set are held by the stub portion with the fingers of one hand while the record sheets of said set are gripped, separately from the transfer sheets and over the grip-escape spaces at the margin of the record sheets remote from the stub portion, with the fingers of the other hand.

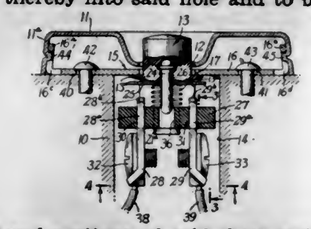
2,169,995
LIQUID DIELECTRIC COMPOSITIONS
Gerald H. Coleman and Luther F. Berhenke, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application February 24, 1938, Serial No. 192,392
10 Claims. (Cl. 252—1)

1. A liquid dielectric composition consisting of halogenated diphenyl oxide having a halogen content corresponding to at least 4 atoms of combined halogen per molecule, and a substantial proportion of alkylated diphenyl oxide having an average of not more than 4 alkyl groups per molecule.

2,169,996
PUSH-BUTTON SWITCH CONSTRUCTION
Robert S. Edwards, New Rochelle, N. Y., assignor to Edwards and Company, Inc., Norwalk, Conn., a corporation of Connecticut
Application June 19, 1937, Serial No. 149,148
3 Claims. (Cl. 200—159)

1. A push button switch construction for assembly to a wall or the like comprising two parts, one of which is a unitary sub-assembly that comprises a substantially flat sheet metal member having a central portion to take over a hole in the wall and opposed end portions to rest against the face of said wall on opposite sides of said hole, said central portion having an aperture, said member having depending from its central portion, so as to be received within said hole, opposed supporting parts provided at their lower ends with deformable lugs, an insulating member carrying connector-contact means having the connector elements thereof exposed at the under face of said insulating member and the contact

elements thereof exposed at the upper face, said insulating member having means coacting with said lugs for holding it assembled to said depending supporting parts, a spring-opposed push button structure having a button projecting upwardly through the aperture in said central portion and flange means to engage against the under face of the latter to limit upward movement of said button and having conductive means adapted upon movement of said button to engage said contact elements, whereby said sub-assembly, as a unit, may be assembled to the wall to bring said depending supporting parts and the parts carried thereby into said hole and to bring said



opposed end portions of said sheet metal member against the face of said wall on opposite sides of said hole, said opposed end portions having aperture means for securing said sub-assembly, as by screws, in position on said wall, and the other of said two parts comprising an apertured cover plate having a peripheral flange to engage the wall surface about said hole and an aperture through which said button is exposed therethrough, whereby said cover plate covers over said sub-assembly and said screws, excepting said button, said flange and said opposed end portions of said sheet metal member having means for detachably interengaging and thereby holding said cover plate in position.

2,169,997

PROCESS OF CARROTING FUR AND THE LIKE AND COMPOSITION THEREFOR

Constantine F. Fabian, Brookfield, Conn., assignor to The Non-Mercuric Carrot Company, Danbury, Conn., a corporation of Connecticut

No Drawing. Application November 8, 1938, Serial No. 239,510

12 Claims. (Cl. 8—112)

1. An aqueous carroting solution for treating fur and the like containing as its carroting agent a composition consisting of a volatile hydrolyzing acid selected from the group consisting of nitric, formic and acetic acids, and a volatile oxidizer selected from the group consisting of hydrogen peroxide, organic peroxides and organic peracids, the hydrolyzing acid having a hydrogen ion concentration equivalent at least to that represented by a concentration of 11–12% by weight of nitric acid of approximately 63% technical, and the solution being substantially free from non-volatile carroting agents.

2,169,998

SULPHO-CARBOXYLIC ESTERS SUITABLE AS ASSISTANTS FOR THE TEXTILE AND RELATED INDUSTRIES

Fritz Guenther and Karl Saftien, Ludwigshafen-on-the-Rhine, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application May 13, 1931, Serial No. 537,208. In Germany May 23, 1930

7 Claims. (Cl. 260—481)

1. Sulpho-carboxylic esters, suitable for use as assistants in the textile and related industries, corresponding to the general formula $R—COO—R_1$ in which R denotes an aliphatic radicle, containing up to 7 carbon atoms and at least one sulphonic radicle, and R_1 denotes a radicle of an aliphatic alcohol obtainable by reduction of the unsaturated fatty acids of vegetable oils and fats.

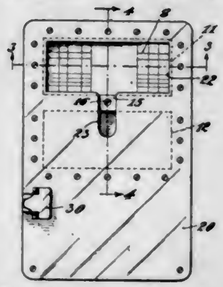
2,169,999

HOLDER FOR RECORD CARDS OR SHEETS

John William Guilday, Mount Vernon, and Joseph Jeming, New York, N. Y., assignors to Maurice R. Scharff, New York, N. Y.

Application March 19, 1938, Serial No. 196,864

8 Claims. (Cl. 281—44)



1. A holder for record cards, comprising a board having two shallow pockets having a depth much less than length or breadth side by side in the same plane parallel to the upper surface of the board, a partition therebetween, one pocket being for blank cards and the other for filled-out cards, a cover of sheet material for said pockets having a window above the pocket for the blank cards, one of the dimensions of such window being smaller than that of the cards to hold the latter in position in their pocket, detachable closures for the bottoms of said pockets to allow stacks of cards to be inserted or withdrawn from said pockets, and means for pressing the stack of blank cards upwardly against the under side of the cover, the top of the partition being spaced away from the under side of the cover to permit the top card in the first pocket to be slid over the partition into the second pocket after the stack of blank cards has been brought into engagement with the under side of the cover.

2,170,000

NONFREEZE TIP-UP

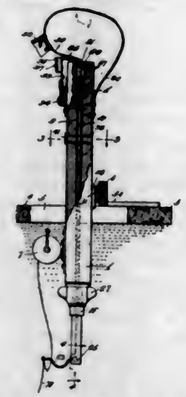
Oscar P. Eggleston, Theresa, N. Y.

Application May 2, 1938, Serial No. 205,643

19 Claims. (Cl. 43—17)

5. In a tip-up, an upright bar, means for supporting said bar partly immersed in water, said bar being provided with a central bore, a pair of rods colinearly positioned in said bore with ends adjacent, a continuous resilient diaphragm inserted between the adjacent ends of said rods and completely hermetically closing said bore, means carried on the end of said bar below water and actuatable by a pull on a fish-line for displacing the lower one of said rods, a latch carried on the upper portion of said bar and releasable from set position by displacement of the upper one of said rods, and signal means actuatable by the release of said latch from set position.

10. In a tip-up, an upright bar, means for supporting said bar partly immersed in water, a lever carried by said bar on its portion below water, controllable radiant energy signaling means carried on said bar for signaling by radiant energy, resiliently actuatable actuating means for causing said signaling means to signal by radiant energy, latch means cooperating with said actuating means for holding the same in unactuated position when set and for causing the same to assume the actuated position when released, and means actuatable by said lever and passing through the interior of said bar for releasing said latch means.



18. In a tip-up, an upright bar, means for supporting said bar partly immersed in water, said bar being provided with a central bore, a pair of rods colinearly positioned in said bore with ends adjacent, a continuous resilient diaphragm inserted between the adjacent ends of said rods and completely hermetically closing said bore, means carried on the end of said bar below water and actuatable by a pull on a fish-line for displacing the lower one of said rods, latch means carried on the upper portion of said bar and releasable from set position by displacement of the upper one of said rods, a resilient flag wire having a portion thereof mounted on said bar and normally held in set position, a flag carried on said flag wire, a radio transmitting set carried on said bar, said flag wire being releasable from set position into display position by displacement of the upper one of said rods, and keying means for said set actuatable by the release of said latch means to cause said set to emit radio signals, whereby displacement of the upper one of said rods causes signaling by both said flag and said radio transmitting set.

19. The subject matter of claim 18, said radio transmitting set comprising said flag wire as its antenna.

2,170,001

TYPOGRAPHICAL COMPOSING MACHINE AND MATRIX THEREFOR

Christian Augustus Albrecht, Berlin, Germany, assignor to Mergenthaler Linotype Company, Brooklyn, N. Y., a company of New York

Application November 30, 1936, Serial No. 113,387

In Germany July 9, 1936

3 Claims. (Cl. 199—36)

1. In or for a typographical composing machine, a matrix lifter bar formed with seven pairs of ribs arranged in V formation on opposite sides thereof for engaging the teeth of regular seven-tooth-combination matrices and also formed above said ribbed portion with a pair of grooves arranged on opposite sides of the bar and extending along the full length thereof and set back with reference to the upper pair of supporting ribs, in combination with a sorts matrix having a non-toothed V-shaped cut of sufficient size freely to accommodate the seven pairs of ribs on the matrix lifter



bar and formed on the top edges of said V-shaped cut with inward projections adapted to engage in the grooves formed on the matrix lifter bar, said projections to fulfill that function extending inwardly to a greater extent than do the teeth of the regular matrices.

2,170,002

PROCESS OF MAKING ACETIC ANHYDRIDE

Gwyn Benson, Shawinigan Falls, Quebec, Canada, assignor to Shawinigan Chemicals Limited, Montreal, Quebec, Canada, a corporation of Canada

No Drawing. Application May 16, 1936, Serial No. 80,167. In Great Britain May 18, 1935

11 Claims. (Cl. 260—546)

2. A process of obtaining the anhydride of an organic aliphatic acid, which comprises passing oxygen into the corresponding aldehyde in presence of an oxidation catalyst and an inert ester containing only carbon, hydrogen and oxygen, as diluent and separating the produced anhydride from the reaction mixture.

2,170,003

ENGINE ARRANGEMENT IN AIRCRAFT

Walter Blume, Brandenburg-on-the-Havel, Germany, assignor of one-half to Arado Flugzeugwerke Gesellschaft mit beschränkter Haftung, Brandenburg-on-the-Havel, Germany

Application December 23, 1938, Serial No. 247,518

In Germany January 6, 1938

5 Claims. (Cl. 244—55)



1. In an aeroplane, the combination of a fuselage, supporting wings having roots joined to said fuselage, air-screws mounted exteriorly of said fuselage, engines each comprising at least two cylinders and a crank shaft common to said cylinders, each of said engines being arranged partly within said fuselage and partly within a supporting wing, and transmission mechanism coupling said shafts to said air-screws.

2,170,004

PIPE JOINT

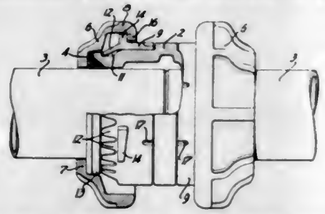
Roger C. Boughton, San Francisco, Calif.

Application September 7, 1937, Serial No. 162,656

5 Claims. (Cl. 285—177)

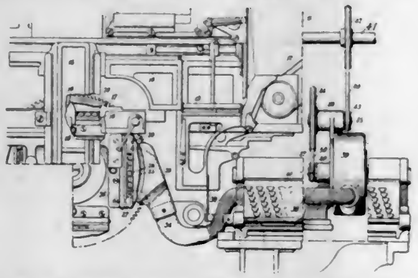
1. A pipe joint comprising an annular element for encircling a pipe, a gasket adjacent an end of the element, a second annular element for encircling the pipe to apply pressure to the gasket, a locking ring on the first element and engageable with the second element for locking the elements together, the inside diameter of the ring being larger than the end diameter of the

first element whereby the ring may be slipped into assembled position over the end of said first



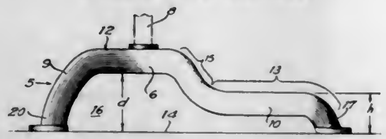
element, and means for holding said ring in assembled position.

2,170,005
SLUG CASTING MACHINE
Ardrey M. Bramblett, Brooklyn, N. Y., assignor to Mergenthaler Linotype Company, a corporation of New York
Application November 17, 1937, Serial No. 174,961
17 Claims. (Cl. 199—62)



1. In a slug casting machine, the combination of a slotted mold, and means for discharging air simultaneously along different paths against the rear and top faces of the mold.

2,170,006
BASE CONSTRUCTION
Robert J. Brandt, Los Angeles, Calif.
Application September 27, 1937, Serial No. 165,922
1 Claim. (Cl. 248—194)



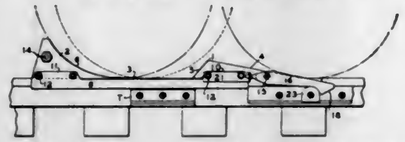
A standard base of the character described, comprising: a substantially central body having a pair of arms extending forwardly therefrom and a third arm extending rearwardly therefrom, the major portion of said third arm being disposed substantially parallel to the floor, the inner end of said third arm bending upwardly to engage said body, the lower face of said body being at a slightly greater height from said floor than the upper face of said outer portion of said third arm, and said pair of arms extending horizontally outwardly from said body in the plane of said body so that said major portion of said third arm will pass under the body and under the pair of arms of a like base resting on the floor adjacent said base, there being leg members formed at the other ends of said pair of arms for engaging said floor.

2,170,007
LIQUID CONTAINER
John G. Brewer, Piedmont, Mo.
Application October 4, 1938, Serial No. 233,297
2 Claims. (Cl. 221—14)



2. A container comprising a container portion, a tubular spout integral with said container, a valve seat located in the spout, a ball valve to engage with said seat, a coiled spring having one end secured on an interior wall of the spout and the other end secured on the ball valve to normally position the latter in engagement with the seat, a cap threaded on said spout, and a stem carried by said cap and extending through the coiled spring to engage the ball valve for forcing the latter into engagement with the seat and adapted to permit the ball valve to move off of the seat when said cap has been partially unthreaded from the spout and pressure applied to said container portion.

2,170,008
FRICTION CAR STOP
Edward W. Breyley, Cleveland, Ohio
Application December 28, 1937, Serial No. 182,069
14 Claims. (Cl. 104—259)



1. In a friction car stop and rail combination, a shoe comprising a wheel receiving block, an entrant block, said blocks being positioned on the upper surface of the rail ball and spaced longitudinally of the rail from each other, said shoe including a tie member lying along one side of the rail ball and having end portions extending above the rail ball and alongside the blocks, respectively, and having a flange portion extending beneath the rail ball, said shoe including clamping means at the opposite side of the rail ball from the member and having flanged portions extending beneath the ball and having portions extending above said upper surface of the rail ball and disposed alongside of the opposite faces of the blocks from the end portion of the tie member, said flanged portions, tie member and blocks embracing the rail ball for securing the blocks thereto for sliding lengthwise of the rail, and means detachably connecting the end portions of the member, the associated clamping means, and associated block together above the level of the upper surface of the rail ball for permitting lateral assembly and disassembly of the parts from each other while the blocks, clamping means and tie member remain in fixed position longitudinally of the rail relative to the rail and to each other, and said shoe terminating at its lower limit in closely spaced relation below the level of the under surface of the rail ball.

2,170,009
PREPARATION OF CELLULOSE ETHERS
Hans T. Clarke, New York, and Carl J. Malm, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application February 12, 1937, Serial No. 125,464
3 Claims. (Cl. 260—231)

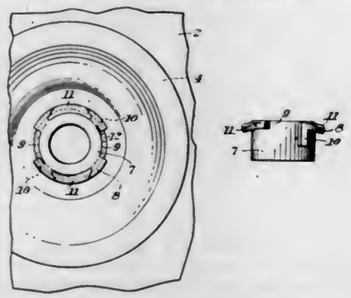
1. A process for preparing cellulose ethers which comprises treating cellulose with aqueous caustic alkali of at least 40% concentration, removing some of the liquid therefrom by pressure and treating the resulting mass with a bath containing an etherifying halide and a tertiary alcohol of 4–5 carbon atoms as a solvent therein.

2,170,010
TAP ATTACHING DEVICE FOR CONTAINERS
Guy O. Conner, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware
Application April 11, 1936, Serial No. 73,926
5 Claims. (Cl. 285—40)



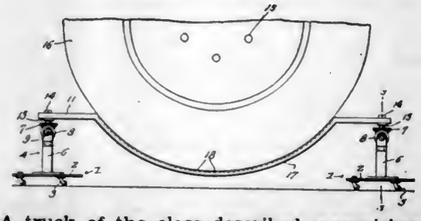
1. A tap attaching device for containers, comprising a hollow tap receiving portion having outwardly projecting discontinuous flange means, said flange means having adjacent a discontinuity therein a portion disposed in a direction generally parallel to the axis of the device, said portion being at least in part separated from the tap receiving portion.

2,170,011
METHOD OF MAKING A TAP ATTACHING DEVICE FOR CONTAINERS
Guy O. Conner, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va., a corporation of Delaware
Original application April 11, 1936, Serial No. 73,926. Divided and this application June 18, 1937, Serial No. 148,881
4 Claims. (Cl. 29—148.2)



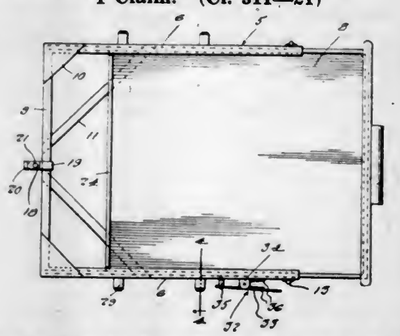
1. A method of making a tap attaching device for containers, which tap attaching device comprises a flanged sleeve, comprising partially severing the material of the flange from the body of the sleeve at a plurality of points thereabout and bending such material at each of said points out of the general plane of the flange generally parallel to a plane containing the axis of the sleeve to permit application of a tap thereto.

2,170,012
VEHICLE WHEEL TRUCK
Oscar L. Cronk, Oswego, N. Y.
Application December 7, 1938, Serial No. 244,486
1 Claim. (Cl. 254—7)



A truck of the class described comprising, in combination, a pair of carriages, each carriage including a base and caster wheels mounted beneath said base, jacks mounted on the bases of the carriages, said jacks including vertically movable screw shafts comprising reduced, threaded upper end portions providing shoulders and manually operable means for actuating said screw shafts, collars mounted on the upper end portions of the screw shafts on the shoulders, a bar, for supporting a vehicle wheel, mounted on the reduced portions of the screw shafts and resting on the collars for raising and lowering by the jacks, and nuts threaded on said reduced portions of the screw shafts for securing said bar thereon, said bar including an arcuate intermediate portion for the reception of the vehicle wheel, the upper side of said arcuate intermediate portion being roughened.

2,170,013
SHELF
Angus E. Detwiler, Miami, Fla.
Application July 7, 1938, Serial No. 217,984
1 Claim. (Cl. 311—21)



A shelf for an automobile comprising a frame including a pair of side members and a rear member, each side member being of hollow construction and having a longitudinally extending slot in the central portion of its inner face, means for supporting the frame under the instrument board of an automobile, a shelf-forming member including side and end members and a plate-like member filling the space between said side and end members and connected with said members, the side members of the shelf-forming member sliding in the side mem-

bers of the frame with the plate-like member passing through the slots of said side members of the frame, the side members of the shelf-forming member having parts extending above and below the plate-like member and having their upper and lower edges contacting the top and bottom of the spaces formed by the hollow side members of the frame, the front end member of the shelf-forming member being of the same shape as the side members thereof and a trim member fitting over said front end member and having a slot in its inner face through which the front end of the plate-like member passes, said trim member being of substantially the same cross sectional shape as a side member of the frame and a handle connected with the trim member.

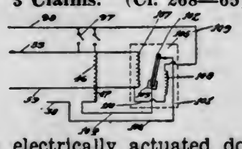
2,170,014

DOOR OPERATING DEVICE

Charles A. Ellis, Natick, Mass., assignor, by direct and mesne assignments, to Maseco Corporation, Hopkinton, Mass., a corporation of Massachusetts

Application November 23, 1937, Serial No. 176,099

3 Claims. (Cl. 268—65)



1. In an electrically actuated door operating device, a driving motor, a driven member actuated thereby for moving a door, means for causing said motor to automatically open and close said door, and means operative upon a substantially continuous use of the door which involves substantially continuous operation of the driving motor for opening the circuit through said motor when the door is in normal open position and for maintaining said circuit open for a predetermined interval.

2,170,015

INTERNAL COMBUSTION ENGINE

Henry Ford, Dearborn, Mich., assignor to Ford Motor Company, Dearborn, Mich., a corporation of Delaware

Application June 9, 1938, Serial No. 212,724

6 Claims. (Cl. 309—3)



1. An internal-combustion engine having a cylinder bore therein into which a thin wall cylinder liner is expanded under relatively high pressure, said liner being formed with a parting line extending the length thereof, the material of the liner on each side of said parting line being fastened together only at spaced intervals therealong, for the purpose described.

2,170,016

MIXED ESTERS OF CELLULOSE CONTAINING UNSATURATED ACID RADICALS

Charles R. Fordyce and Gordon D. Hiatt, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application March 17, 1938, Serial No. 196,471

5 Claims. (Cl. 260—225)

1. A cellulose ester the acyl content of which essentially consists of lower fatty acid groups, saturated organic acid groups of at least 12 carbon atoms and unsaturated organic acid groups having drying characteristics, the unsaturated and the higher saturated organic acid groups constituting at least 20% of the ester, the unsaturated groups being at least 4% of the ester but insufficient to cause polymerization during the esterification.

2,170,017

PROCESS OF CONVERTING SOLUBLE INTO INSOLUBLE CELLULOSE DERIVATIVES

Walter Frey, Freiburg, Breisgau, and Heinz Schwalenstöcker, Korbach, near Cassel, Germany, assignors to the firm E. I. du Pont de Nemours & Co., Wilmington, Del.

No Drawing. Application July 30, 1937, Serial No. 156,576. In Germany July 31, 1936

9 Claims. (Cl. 260—225)

1. Process of converting soluble organic cellulose derivatives into insoluble organic cellulose derivatives in the form of films, threads, textiles, pressed masses and the like, which process comprises reacting said soluble cellulose derivatives with acid halogenides of an organic acid which is at least dibasic, and continuing said reaction until said soluble cellulose derivatives are rendered substantially insoluble.

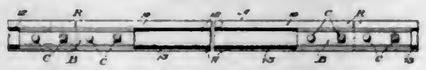
2,170,018

FROZEN RAIL JOINT

William Eyre Gadd, East Orange, N. J., assignor to Poor & Company, New York, N. Y., a corporation of Delaware

Application September 25, 1937, Serial No. 165,756

2 Claims. (Cl. 238—151)



1. A rail joint of the class described including the rails having transversely disposed serrations in both their head and base fillets, splice bars having both their upper and lower inner corners provided with transversely disposed serrations adjustably interlocking with the fillet serrations of the rails to prevent longitudinal movement of the latter, and track bolts connecting the splice bars and providing means for wear take-up thereof.

2,170,019

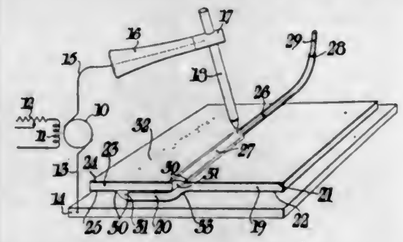
METHOD OF WELDING

Thomas S. Gaylord, Rochester, N. Y.

Application August 11, 1937, Serial No. 158,541

9 Claims. (Cl. 219—10)

1. The method of joining metal parts having a protective layer, which comprises melting a metallic weld strip having a coating including a corrosion-resistant metal to form a seam at the juncture of said parts, the heat for melting said strip at least partially destroying the protective layer along the margins of said seam while the molten corrosion-resistant metal coating of



said strip flows to the margins of said seam and into the regions of deteriorated protective layer.

2,170,020

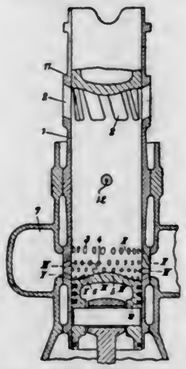
INTERNAL COMBUSTION ENGINE

Manfred Gerlach, Aken-on-the-Elbe, Germany, assignor to Junkers Flugzeug- und-Motorenwerke Aktiengesellschaft, Dessau, Germany

Application September 27, 1937, Serial No. 165,869

In Germany September 30, 1936

5 Claims. (Cl. 123—51)



4. In an internal combustion engine having a cylinder, a piston movable in said cylinder, and exhaust ports located at one end of said cylinder; a plurality of rows of inlet ports arranged at the other end of said cylinder, said rows of inlet ports being spaced from each other in a direction longitudinally of said cylinder, a first row of said inlet ports having the axes of said ports inclined with respect to the longitudinal axis of said cylinder to direct inlet gas toward said exhaust ports and further inclined with respect to the radii of the plane of the circle in which said first row lies to direct inlet gas in a first path adjacent and parallel the inner wall of said cylinder, a second row of said inlet ports having the axis of said ports each inclined with respect to said longitudinal axis at an angle greater than the inclination of the axes of said first row of ports, said axes of said second row of ports being further inclined to direct said inlet gases in a second path adjacent and parallel to said first path, and at least a third row of said inlet ports having the axis of each port inclined with respect to said longitudinal axis at an angle greater than the inclination of the axis of said second row of ports, and further inclined to direct inlet gas in at least a third path lying inwardly of and parallel to said second path.

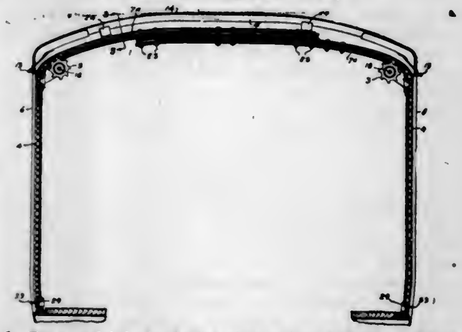
2,170,021

TRUCK BODY AND DOOR CONSTRUCTION

Ralph H. Greegor, Columbus, Ohio, assignor to General Door Company, Reno, Nev., a corporation of Nevada

Application January 6, 1937, Serial No. 119,302

2 Claims. (Cl. 296—140)



1. In a vehicle body having a top and side walls with a door opening, guide tracks having vertically disposed portions on opposite sides of said door opening and substantially horizontal portions connected thereto by curved portions between said vertical and horizontal portions, an articulated door slidably mounted in said guide tracks, and a sprocket disposed adjacent said curved portion with its teeth engaging said articulated door, said guide tracks extending up to and past said sprocket teeth on both sides thereof and said sprocket teeth carrying the weight of the door only through tangential thrusts whereby the weight of the door at said sprockets is supported partly by said sprocket teeth and partly by said guide tracks so that the teeth of the sprocket are subjected only to tangential thrusts and are free from radial thrusts set up by said weight.

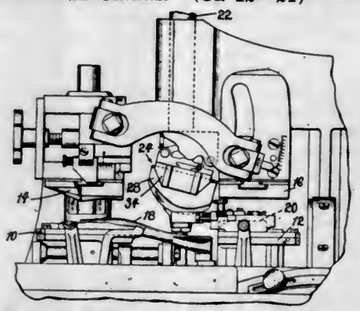
2,170,022

MACHINE FOR SHAPING SOLES

Fred V. Hart, Lynn, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application March 7, 1938, Serial No. 194,269

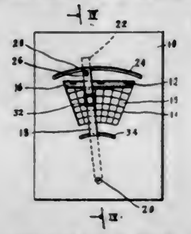
21 Claims. (Cl. 12—21)



1. In a machine for shaping soles, a form adapted to support the shank of a sole the surfaces of which form, at each side of its central portion, are inclined first away from and then toward each other, and shaping means, said form and shaping means being mounted for movement relatively to each other laterally thereof to cause the marginal portions of the sole to be pressed toward the sides of the form, said form and means being mounted for movement in another direc-

tion relatively to each other simultaneously with their first-mentioned movement to operate upon the central portion of the shank.

2,170,023
CALENDAR
Max Hässler, Buenos Aires, Argentina
Application April 20, 1938, Serial No. 203,171
In Argentina May 5, 1937
1 Claim. (Cl. 40—110)



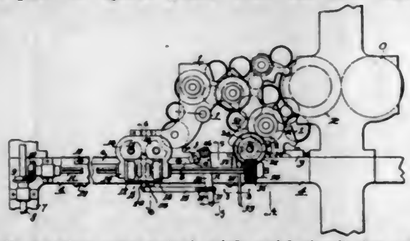
A calendar comprising a base, a block of tear-off calendar sheets secured to said base, each sheet bearing a plurality of dates, an indicating device comprising an arm of transparent material, a pivot for pivotally mounting one end of the arm on the face thereof remote from said block, an arcuate slot formed in said base on the side of said block remote from said pivot, a second arcuate slot formed in said base between said block and said pivot, both said slots having a common centre at said pivot, said arm being threaded through said second arcuate slot, so as to overlie said block, the end of said arm remote from said pivot passing through the first arcuate slot, a button secured to the exposed face of said arm in the neighbourhood of the end thereof remote from said pivot, a runner secured to the opposite face of said arm in the neighbourhood of said button, said runner embracing the convex edge of the first slot, and a cursor-frame mounted on said arm for slidably moving longitudinally thereof.

2,170,024
CELLULOSE ESTERS AND METHOD
Winfield W. Heckert, Arden, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 15, 1937, Serial No. 137,147
9 Claims. (Cl. 8—20)

1. The process of increasing the elasticity of cellulosic material which comprises reacting a cellulosic filament, thread, fabric or film with a bifunctional esterification agent of the group consisting of diahydrides and dichlorides of dicarboxylic acids, and terminating the reaction when the desired degree of increase in elasticity is obtained.

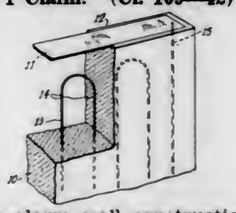
2,170,025
INK-MOTION CARRIAGE
Hans C. Jordhoy, North Plainfield, N. J., assignor to Wood Newspaper Machinery Corporation, New York, N. Y., a corporation of Virginia
Application July 15, 1936, Serial No. 90,678
11 Claims. (Cl. 101—352)

1. In an ink motion, the combination of a frame for carrying said ink motion and bodily movable, of a power shaft adjacent to said frame, a pair of spiral gears rotatably mounted on said shaft, a clutch movable in two directions to clutch either spiral gear to the shaft, a second pair of spiral gears, one meshing with each of said spiral gears, a shaft on which one of said second spiral gears is fixed, two gears for connecting the other of the last pair of spiral gears with the last named



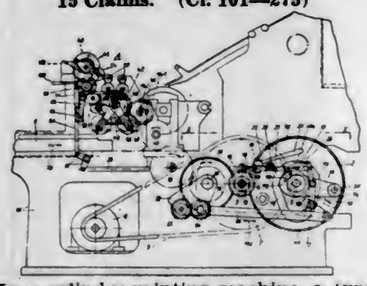
shaft, means connected with said shaft for moving the frame toward and from a printing couple, and two stops arranged on the ink motion carriage for shifting the clutch at each end of the stroke of the carriage.

2,170,026
BURGLAR-ALARM WALL CONSTRUCTION
Robert S. Kahn, Brooklyn, N. Y.
Application February 11, 1937, Serial No. 125,217
1 Claim. (Cl. 109—42)



A burglar alarm wall construction consisting of the provision of a plurality of wall sections adapted to be mounted end to end to cover a length of wall, each of said sections comprising a substantially rectangular body formed of any desired building material, metallic strips imbedded in opposite edges of each section, a looped wire imbedded in said body and having its ends secured to the said strips at the opposite edges of said body, the loops of said wire being relatively close together, said wire being formed of a relatively fragile material.

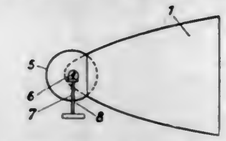
2,170,027
CYLINDER PRINTING MACHINE
Kurt Kaufmann, Berlin-Waidmannslust, Germany, assignor to Automatic Druckmaschinenfabrik Dr. W. Hinniger und Söhne, Berlin, Germany
Application October 7, 1938, Serial No. 233,857
In Germany November 8, 1937
15 Claims. (Cl. 101—275)



1. In a cylinder printing machine, a type car-

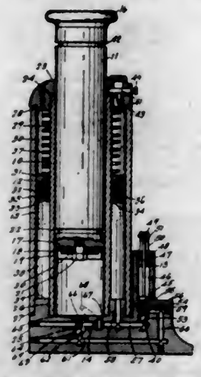
riage, a form on the carriage, a drive, means operatively connected to the drive for reciprocating the carriage, an apparatus for inking the form including inkers and other rotary elements, means for placing the inkers in inking position with respect to the form only when the carriage moves in a given direction, mechanism operatively connected to the drive for rotating the elements of the inking apparatus permanently in the same direction independently of the motion of the carriage, and means operatively connected to the drive for regulating the rotation of the elements in conformity with the variable motion of the carriage.

2,170,028
TRANSMITTING AND RECEIVING DEVICE FOR ULTRA-SHORT WAVES
Karl Kohl, Berlin, Germany, assignor to Naamlooze Venootschap Machinerieen-en Apparaten Fabrieken "Meaf", Utrecht, Netherlands
Application March 4, 1935, Serial No. 9,298
In Germany March 9, 1934
4 Claims. (Cl. 250—11)



1. An arrangement for communicating with ultra-short waves comprising a reflector composed of a tubular mirror having a focal point and a cap member of different curvature than said mirror forming the apex of said reflector and also having a focal point, said cap being electrically connected to the tubular mirror to form a radiation tight reflector, the foci of said mirror and cap being substantially coincident, an ultra-short wave radiator positioned substantially coincident with said focal points, and the focal length of said tubular mirror being substantially smaller than, and the focal length of said cap member being at least equal to, one-fourth the wave length emitted by said radiator.

2,170,029
HYDRAULIC JACK
Wingham J. Liddell and Leander C. Morse, Oakland, Calif.
Application January 4, 1937, Serial No. 118,945
5 Claims. (Cl. 60—52)

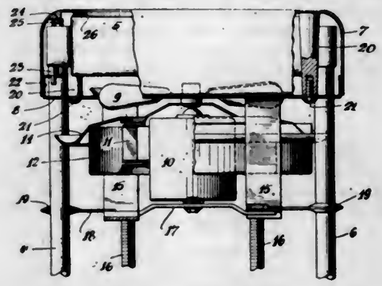


1. In a hydraulic jack having a cylindrical lift having an annular groove formed adjacent the upper end thereof, a working cylinder, an encompassing transfer-fluid container, a supply of transfer fluid, and a pump having an intake; a spring-urged piston operating within said transfer-fluid container maintaining said supply of fluid continuously available to the intake of said pump irrespective of the position of said jack relative to its normal upright position, and latch means releasable at will and engageable with said groove for fixedly securing said lift when in fully retracted position against projectional movement under the influence of fluid urged by said spring-urged piston or by said pump or under the influence of gravity when said jack is inclined, reclined or inverted.

2,170,030
PREPARATION OF MIXED DICARBOXYLIC ACID ESTERS OF POLYHYDROXY COMPOUNDS AND MONOHYDROXY ALCOHOLS
Carl J. Malm and Charles R. Fordyce, Rochester, N. Y., assignors, by mesne assignments, to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application December 4, 1935, Serial No. 52,878
3 Claims. (Cl. 260—475)

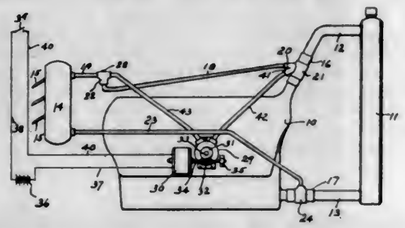
1. The process of preparing a mixed ester of a dicarboxylic acid which comprises reacting upon a non-saccharide polyhydroxy compound with the anhydride of the dicarboxylic acid at approximately 100° C. in the presence of at least an equivalent amount of a tertiary organic base, separating the resulting product from the reaction mixture by precipitating in dilute acid and then reacting thereupon with a lower aliphatic monohydroxy alcohol in the presence of a suitable catalyst.

2,170,031
CORE MOUNTING
Carl E. Meyerhoefer, Brooklyn, N. Y., assignor to E. A. Laboratories, Inc., Brooklyn, N. Y., a corporation of New York
Application July 28, 1937, Serial No. 156,250
4 Claims. (Cl. 257—137)



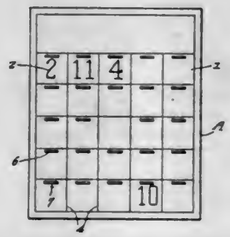
1. A mounting for the core of a heat exchange unit and including in combination a shell to enclose said core and comprising sections telescopically disposed with respect to each other, means for retaining said sections against separation, a pair of extended portions forming a part of one of said sections and extending inwardly adjacent the inner edge of said section and parallel to one of the faces of the core, resilient cushioning elements interposed between said portions and the adjacent surfaces of said core, and further resilient cushioning means interposed between the opposite surfaces of said core and that section of the shell which lies adjacent such surfaces.

2,170,032
AUXILIARY CIRCULATING DEVICE FOR AUTOMOBILE HEATERS
Lionel F. Page, Xenia, Ohio
Application January 25, 1938, Serial No. 186,790
1 Claim. (Cl. 237—12.3)



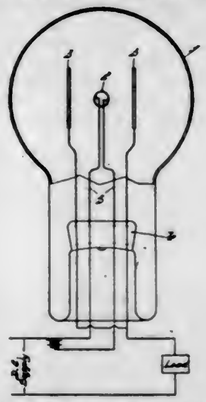
In combination with an automobile hot water heater adapted to have the heated water from the automobile engine-cooling system which includes the radiator circulating through it, an independently driven water circulating device inserted in the circuit of the hot water heater to circulate the water through the heater if desired when the engine of the automobile is not running, said circuit comprising a conduit connected to the conduit of the engine cooling system leading from the engine into the bottom of the radiator, and into the bottom of the heater, and a conduit leading from the top of the heater to the circulating device and a conduit leading from the circulating device into the conduit which connects the top of the motor and the radiator, an independent conduit connecting the conduit from the top of the radiator and the conduit from the top of the heater, a check valve for preventing the flow of water back into the independent conduit, and means for starting and stopping said circulating device.

2,170,033
SLIDING MARKER FOR NUMBER GAME CARDS
Fred W. Pittinger, Akron, Ohio, assignor of one-half to Alphonse H. Pittinger, Akron, Ohio
Application March 30, 1939, Serial No. 265,026
1 Claim. (Cl. 273—136)



In combination with a card having a plurality of characters thereon and a plurality of slots therein, one adjacent each character, a backing for the card, a plurality of plate-like markers slidably arranged between the backing and the card and each including a T-shaped portion to provide a stem and a head with that end of the stem opposite the head being bent at substantially right angles to pass through a slot and to form a handle, the head being of greater length than the length of the slot to prevent the marker from being entirely passed through the slot, with the stem between the head and the bent up portion being bowed upwardly to provide an arch for frictionally fitting between the card and the backing and the junction of the arch with the bent up portion being rounded to permit free passage of this part through the slot.

2,170,034
RECTIFIER TUBE
Engbert Harmen Reerink and Mari Johan Druyvesteyn, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application June 19, 1937, Serial No. 149,234
In Germany June 29, 1936
7 Claims. (Cl. 250—27.5)



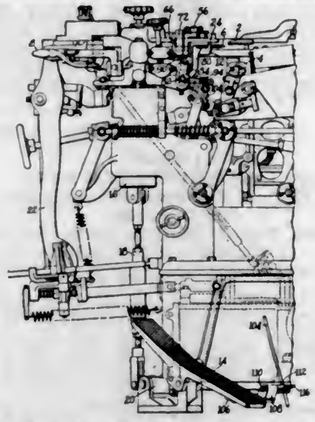
1. An ionic discharge tube having an arc-like discharge comprising an anode, an envelope and a gaseous filling within said envelope having during operation a pressure between a maximum value $p_{max.}$ and a minimum value p equal to 1/25 $p_{max.}$, $p_{max.}$ being equal to 0.02 mm. of mercury in the case of argon and for other gaseous fillings being values which result in a free path of the atoms of identical order of magnitude, and an incandescible cathode having a plurality of parts spaced apart by a distance at least twice the distance at which the entire cathode participates in the emission, said cathode having an electron-emitting current capacity whose value is greater than

$$0.08+0.4\frac{p}{p_{max.}}$$

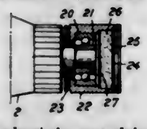
amp. per sq. cm. of active cathode surface and below the value at which unsatisfactory tube life is obtained.

2,170,035
LASTING MACHINE
Fred Ricks and John William Pratt, Leicester, England, assignors to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application October 12, 1938, Serial No. 234,642
In Great Britain November 9, 1937
15 Claims. (Cl. 12—14)

1. In a lasting machine, the combination with wipers movable to wipe the margin of an upper around an end of a last inwardly over an insole on the last, of upper-controlling means mounted adjacent to the wipers and relatively to which the wipers are thus movable, said upper-controlling means being arranged to engage the outer face of the margin of the upper and by such engagement to cooperate with a hand tool held by the operator to clamp and control said margin as the wipers act thereon.



2,170,036
SMALL ELECTRIC MACHINE TOOL
Robert Schumann, Dusseldorf, Germany
Application March 19, 1937, Serial No. 131,872
In Germany March 26, 1936
4 Claims. (Cl. 308—187)



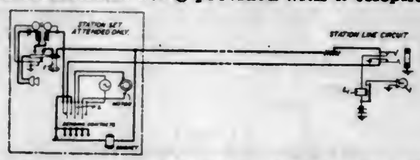
1. In a small electric machine tool motor casing of hand tool form, a driven shaft in the casing, a ball bearing on the rear end of the shaft comprising an outer bearing ring, a sleeve-shaped steel rim surrounding said outer ring and adapted to facilitate the removal of said bearing, an extension on said rim forming a lubricating chamber for said ball bearing, and a separate sleeve fitted on the casing and adapted to receive said rim.

2,170,037
ACCELERATOR OF VULCANIZATION
Waldo L. Semon, Silver Lake Village, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application October 26, 1937, Serial No. 171,064
20 Claims. (Cl. 18—53)

1. The process which comprises vulcanizing rubber in the presence of a member of the class consisting of o,o' alkylidene-diaryl dithiocarbamic acids and their derivatives formed by replacement of the hydrogen of the sulfhydryl group.

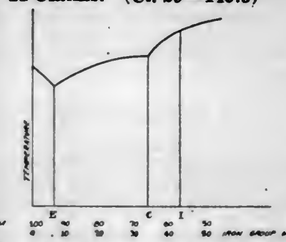
2,170,038
TELEPHONE AND TELEGRAPH EXCHANGE SYSTEM
Fred John Singer, Rockville Centre, N. Y., assignor to American Telephone and Telegraph Company, a corporation of New York
Continuation of application Serial No. 43,413, October 3, 1935. This application July 9, 1936, Serial No. 89,828
22 Claims. (Cl. 179—4)

1. A telegraph exchange system having a plurality of lines, each line terminating at a central switchboard, each line being provided at a terminal remote from said switchboard with a teletypewriter and a telephone set, a cord circuit at said switchboard for interconnecting said lines, said cord circuit being provided with a telephone



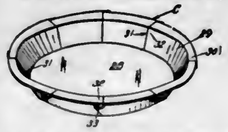
operator's subset, sources of current, and keys whereby said subset may be connected for communication over said lines by telephony, and with keys whereby said lines may be interconnected for direct current impulse telegraph transmission through said cord circuit.

2,170,039
BEARING AND METHOD OF MAKING SAME
Hans Steudel, Dessau, Germany, assignor to Junkers Flugzeug-und-Motorenwerke Aktiengesellschaft, a corporation of Germany
Application January 5, 1939, Serial No. 249,534
In Germany April 16, 1934
11 Claims. (Cl. 29—149.5)



9. In a process of producing a bearing, the step of kneading a material comprising essentially aluminum as a base and at least one metal of the iron group, said composition being hypereutectic and composed of crystals of an intermetallic compound of aluminum and an iron group metal distributed in a matrix of a softer eutectic ground mass, to cause said crystals to assume a smaller, more rounded form and to adhere firmly to said ground mass.

2,170,040
COOKING AND BAKING UTENSIL
Kimberly Stuart, Neenah, Wis., assignor of one-half to Elizabeth R. B. Stuart, Menasha, Wis.
Application April 22, 1936, Serial No. 75,809
1 Claim. (Cl. 53—6)



A shallow plate made by pressure drawing operations from a single sheet of semi-flexible material comprising a bottom wall, an upwardly sloping side wall and a marginal flange, said bottom wall and said flange being disposed substantially parallel, and a plurality of spaced closed full pleats extending from said bottom wall upwardly along said side wall and across said flange, said pleats each including at least three bends in said material and comprising ex-

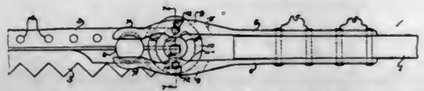
cess material resulting from said drawing operations and being folded flat closely against the external surfaces of said side wall and said flange in such a manner that the two outside bends of each pleat are tightly drawn together with those portions of the side wall and flange respectively which lie between the pleats being substantially in alignment so that smooth, aligned, substantially continuous surfaces are provided within the plate and across the top of the flange.

2,170,041

PITMAN ROD CONNECTION

Wilhelm Vutz, Coldwater, Ohio, assignor to New Idea, Inc., Coldwater, Ohio, a corporation of Ohio

Application March 28, 1938, Serial No. 198,411
6 Claims. (Cl. 287—89)



1. In a connection of the character described, two members, a pair of straps connected with one member, a ball formed on the other member, a socket member on each of said straps to engage said ball, a rotatable internal cam member, and a pin carried by each of said straps, said cam member having a pair of slots one at least of which is a cam slot, each adapted to receive one of said pins whereby when said cam member is rotated said socket members will be moved to or from said ball.

2,170,042

CONNECTION FOR PITMAN RODS

Wilhelm Vutz, Coldwater, Ohio, assignor to New Idea, Inc., Coldwater, Ohio, a corporation of Ohio

Application March 28, 1938, Serial No. 198,412
4 Claims. (Cl. 287—89)



1. In a connection of the character described, a pitman rod, a pair of straps connected therewith and extending therebeyond, a knife head having a ball, socket members on said straps to engage said ball, a cam member positioned intermediate said straps between the end of said pitman rod and said ball, a pivotal connection between said cam and one of said straps, cam surfaces between said cam member and the other strap operable in one position of said cam member to hold said socket members to said ball and in another position of said cam member to spread said straps, and a coil spring pivotally connected with said cam member operable to hold said cam member in either position.

2,170,043

COATING PROCESS

Gladstone Walter Worrall, Northwich, England, assignor to Imperial Chemical Industries Limited, a corporation of Great Britain

No Drawing. Application April 14, 1937, Serial No. 136,929. In Great Britain April 24, 1936
5 Claims. (Cl. 91—68)

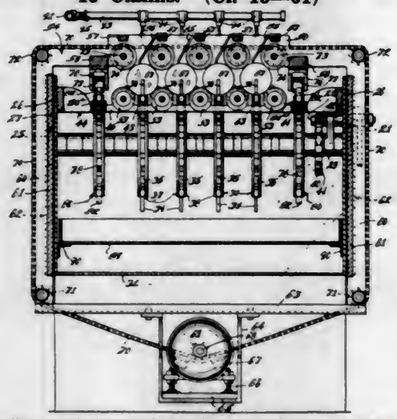
1. The process for preparing an adherent, flexible and non-absorbent coating of latex rubber, which comprises coating a base material with a mixture consisting of rubber latex and sodium silicate solution, allowing the coating to dry, treating the same with an acidic insolubilizing agent, applying one or more additional coats of a coating material from the class consisting of rubber latex and sheet rubber, and incorporating a wax into the coating.

2,170,044

LABEL-REMOVING MACHINE

Robert J. Wynne, Bellwood, Ill., assignor to Irving D. Porter

Application August 19, 1936, Serial No. 96,756
13 Claims. (Cl. 15—61)



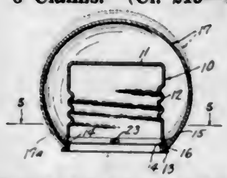
3. In container cleansing machines having an intermittently moving conveyor for containers, means to remove foreign matter from the outside of said containers, said means including a straight edged scraper, a vertically reciprocating frame adapted to support said scraper, a plurality of container drive rollers and driving means therefore mounted on said frame, a cam roller on said frame, and cam means adapted to reciprocate said frame, whereby to effect engagement of said drive rollers and scraper with said containers when said conveyor is stationary.

2,170,045

BOTTLE CAP

Leonard Abbotts, Bridgeport, Conn., assignor to The Bridgeport Metal Goods Manufacturing Company, Bridgeport, Conn., a corporation of Connecticut

Application November 18, 1937, Serial No. 175,215
8 Claims. (Cl. 215—43)



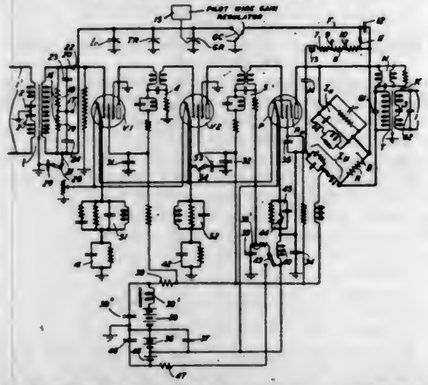
4. In a bottle cap, an inner shell open at one end to receive the neck of a bottle, an annular outwardly directed flange about the open end of said shell, an annular outwardly directed bead on said shell inwardly of said flange, an outer shell having an opening therein and having an annular edge portion about said opening located between said flange and bead, and said flange clamping said annular edge portion against said bead whereby the shells are secured together.

2,170,046

NEGATIVE FEEDBACK AMPLIFIER

Frithiof B. Anderson, Elberon, and Andrew W. Clement, Summit, N. J., and Ira G. Wilson, New York, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application April 15, 1938, Serial No. 202,180
13 Claims. (Cl. 179—171)



1. A wave translating system comprising a wave amplifying negative feedback loop, a load circuit for connection to said loop whose impedance tends to cause singing of the loop outside the frequency range utilized in the load circuit, and a network connected between the loop and the load circuit for rendering the impedance of the network and the load circuit as viewed from the loop suitable for stabilizing said system against said singing.

2,170,047

PERMANENT MAGNET OF COPPER-COBALT-NICKEL ALLOY

Walter Dannöhl and Hans Neumann, Berlin-Siemensstadt, Germany, assignors to Siemens & Halske Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

No Drawing. Application November 17, 1936, Serial No. 111,252. In Germany April 9, 1936
9 Claims. (Cl. 175—21)

1. A permanent magnet formed of an alloy consisting substantially of 15–65% cobalt, 15–35% nickel, and 20–65% copper, and characterized by a coercive force above 100 oersted and a remanence above 1,000 gauss.

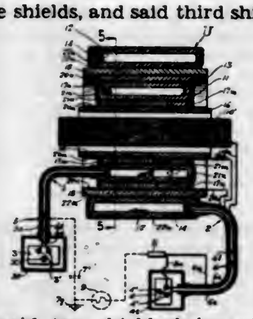
2,170,048

COUPLED CIRCUIT SYSTEM

Orville M. Dunning, Glen Ridge, and Charles T. Jacobs, New Providence Township, Union County, N. J., assignors to Thomas A. Edison, Incorporated, West Orange, N. J., a corporation of New Jersey

Application March 20, 1935, Serial No. 11,956
3 Claims. (Cl. 250—16)

3. In a transformer system including a core element and two windings circumferential thereto, two conductive shields for said windings respectively, each said shield extending between its respective winding and the other shield, and a third conductive shield interposed between said two shields, each of the three shields being provided with a circumferential discontinuity and with connecting means, the discontinuities in and connecting means to said third shield and a first of said two shields being so arranged as to balance out fluctuating circumferential shield currents produced by a difference of dynamic potential of those shields, and said third shield and the



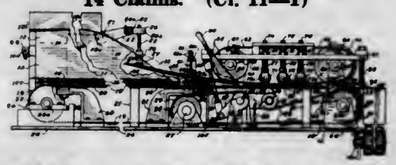
second of said two shields being at the same dynamic potential.

2,170,049

APPARATUS FOR PROCESSING BOOKS

Harry W. Faeber, Philadelphia, Pa., assignor to The Cuneo Eastern Press, Inc., Philadelphia, Pa., a corporation of Pennsylvania

Application January 11, 1938, Serial No. 184,417
14 Claims. (Cl. 11—1)



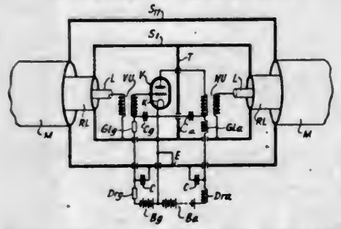
2. A book-smasher comprising a pair of vertically disposed guide plates for receiving bound assemblies of leaves or signatures therebetween, a conveyer below said guide plates for moving the assemblies along a predetermined path, a piercing head having guide members extending downwardly toward said conveyer for opening the assemblies, an endless belt supported above said conveyer, and resiliently mounted pressure-applying rollers associated with said endless belt for applying a force of assembly-smashing magnitude.

2,170,050

ARRANGEMENT FOR SHIELDING AMPLIFIERS

Valentin Gandtner, Falkensee, Kreis Osthavelland, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany

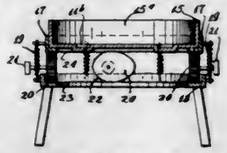
Application March 9, 1937, Serial No. 129,823
In Germany March 9, 1936
5 Claims. (Cl. 179—171)



1. In combination, an electron discharge device amplifier having a cathode, anode, and control electrode; an input circuit connected between said control electrode and cathode; an output circuit connected between said anode and cathode; a first metallic shielding container surrounding said amplifier, its input and output circuits; a second metallic shielding container surrounding

and spaced from said first container; a metallic partition wall in said first container separating said first container into two chambers, said input circuit being in one chamber, and said output circuit being in the other chamber; a path of low impedance to radio frequency energy connected between said cathode and said first container, and means coupling one point on said first shielding container to a point on said second shielding container.

2,170,051
SUPPORT FOR CANDY MOLDS
George Gruber, Linden, N. J.
Application September 20, 1937, Serial No. 164,739
4 Claims. (Cl. 248—180)

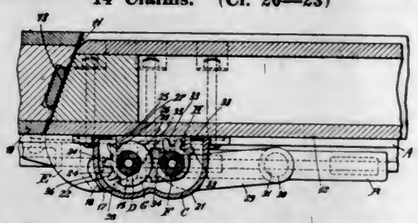


1. A device of the class described, comprising an annular member, for supporting a candy mold, an annular base beneath said member, resilient means urging said annular member downwards against said base, and cam elements engaged between said member and base for holding the member in selected tilted positions.

2,170,052
OXYGEN-GENERATING COMPOSITION
Moses Leib Heim and Karl Fiedler, Leipzig, Germany; said Fiedler assignor to said Heim
No Drawing. Application May 27, 1938, Serial No. 210,410. In Germany July 10, 1937
4 Claims. (Cl. 23—6)

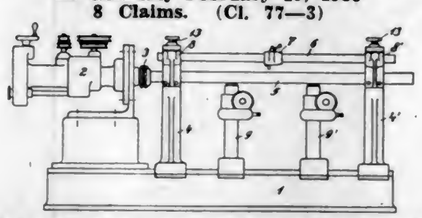
1. A new composition of matter for producing oxygen baths comprising an alkali metal per compound readily giving up oxygen upon contact with water, and sodium lignine sulfonate in amount sufficient to stabilize said per compound in dry storage and to accelerate oxygen evolution therefrom in water.

2,170,053
REFRIGERATOR CAR DOOR
William A. Heitner, Chicago, Ill., assignor to W. H. Miner, Inc., Chicago, Ill., a corporation of Delaware
Application April 30, 1937, Serial No. 139,911
14 Claims. (Cl. 20—23)



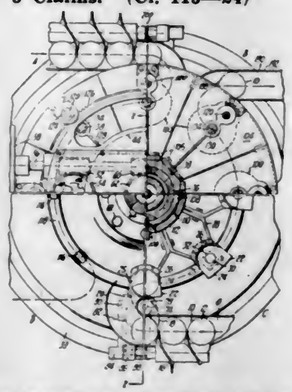
1. In a door construction for refrigerator cars having a wall member provided with a door opening, the combination with a door adapted to close said opening; of supporting crank arms rotatably mounted at their inner ends on said door and pivotally supported at their outer ends for swinging movement; means for guiding said pivotally supported ends for sliding movement lengthwise of the car; fixed keepers on said car; a rotary keeper engaging crank shaft mounted on said door and having camming engagement with said keepers for moving the door into and out of the door opening; means for rotating said shaft; means actuated by rotation of said shaft while the latter is in operative camming engagement with said keepers for rotating said crank arms to follow the movements of said door; and additional driving connections between said crank shaft and supporting crank arms for transmitting rotary movement from said crank shaft to said arms when said shaft is disengaged from said keepers.

2,170,054
APPARATUS FOR BORING CRANKCASE BEARINGS
Paul Jeschor, Breslau, Germany
Application February 24, 1937, Serial No. 127,385
In Germany February 19, 1936
8 Claims. (Cl. 77—3)



1. In a boring machine, the combination of a cutting shaft, driving means for said shaft, a first pair of supporting members constituting bearings for said shaft, a second pair of supporting members for the work to be machined, said second pair being arranged intermediate of the members of said first pair, one of the members of said second pair being so arranged and constructed as to offer a substantially one-point supporting face to said work, and the other one having substantially two points of support, and means for individually adjusting the members of one of said pairs in a vertical direction.

2,170,055
DOUBLE SEAMER
Axel Johnson, deceased, late of Oakland, Calif., by George Walter Johnson and Lloyd A. Johnson, executors, Oakland, Calif., and George Walter Johnson, Oakland, Calif.
Application July 10, 1936, Serial No. 89,940
3 Claims. (Cl. 113—24)



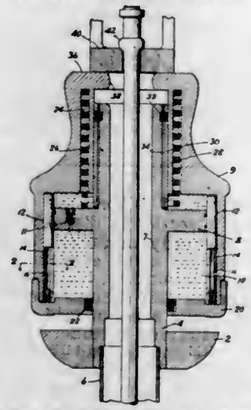
1. In a can seaming machine having a rotatable turret and a plurality of seamer heads carried thereby; the combination of a plurality of concurrently operable devices disposed at a plurality of stations adjacent said turret for feeding assembled can bodies and ends into position for seaming operations thereon by said heads, and discharge means for seamed cans located adjacent each of said stations for discharging cans fed into the machine at a remote feeding station.

2,170,056
METHOD FOR AUTOMATIC INDICATION OF INFLAMMABLE GAS ADMIXTURES
Georg Keinath, Berlin-Charlottenburg, and Heinz Grüss, Berlin-Wannsee, Germany, assignors to Siemens & Halske, Aktiengesellschaft, Siemensstadt, near Berlin, Germany, a corporation of Germany
Application June 28, 1937, Serial No. 150,782
In Germany May 23, 1936
14 Claims. (Cl. 23—232)

1. Method of automatically and continuously testing for the presence of a dangerous amount of combustible in an atmosphere, consisting in passing the gas to be tested continuously through the reaction chamber, evaporating an additional combustible to the saturation point into the test gas to render the latter explosive, and supplying intermittently an ignition spark to the entire gas and vapor mixture.

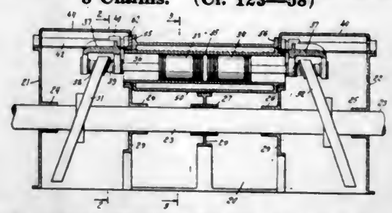
8. Arrangement for automatically indicating the permissible percentage of inflammable gas admixtures to a surrounding atmosphere, including a mixing chamber, a combustion chamber communicating with said mixing chamber and means for supplying the test gas through said mixing chamber to said combustion chamber, means for constantly supplying a solid combustible to said mixing chamber, heating means for evaporating said solid combustible at a constant vapor concentration into the test gas in said mixing chamber, intermittently actuated ignition means in said combustion chamber to explode the entire mixture when it contains a given amount of inflammable gas mixture, and means for controlling said combustible heating means in accordance with the pressure conditions of the atmosphere, so that the vapor concentration variations due to varying atmospheric pressure are compensated by the reactions of said pressure on said heating means.

2,170,057
SHOCK ABSORBING DEVICE
Ralph L. Kerr, Oklahoma City, Okla., assignor of one-half to J. Eldon Peck, Oklahoma City, Okla.
Application January 11, 1939, Serial No. 250,271
8 Claims. (Cl. 255—1)



1. Means for absorbing shocks of devices being moved within a bore hole comprising a fixed member provided with a central passage for said devices and adapted to be secured above the end of a hole, a member guided by and movable relative to said fixed member, said movable member being provided with means engageable to arrest said devices when they are lowered, and shock absorbing means between said members.

2,170,058
INTERNAL COMBUSTION ENGINE
Elwood T. Larkin, Buffalo, N. Y., assignor to Michell-Crankless Engines Corporation, New York, N. Y., a corporation of New York
Application April 21, 1937, Serial No. 138,145
8 Claims. (Cl. 123—58)

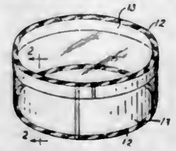


1. In crankless mechanism of the character described, a casing, a shaft mounted in said casing and extending longitudinally thereof, said casing having a longitudinal opening therein, and a cylinder movable through the opening into the casing and supported on the longitudinal walls of the casing surrounding said opening, in a position parallel to said shaft.

2,170,059
PROCESS FOR THE MANUFACTURE OF MERCAPTOTHIAZOLINES
Roger A. Mathes, Akron, Ohio, assignor to The B. F. Goodrich Company, New York, N. Y., a corporation of New York
No Drawing. Application September 29, 1938, Serial No. 232,389
12 Claims. (Cl. 260—302)

1. A process for producing a heterocyclic mercapto compound embodying a ring consisting of at least three carbon atoms, one nitrogen atom and one sulfur atom, one carbon atom of said ring being directly between the nitrogen and sulfur atoms and joined to the sulfur of the nonnuclear mercapto-group, which comprises interacting an amino alkyl sulfuric acid in which the amino group and the sulfuric acid group are separated by from 2 to 3 carbon atoms and carbon disulfide in the presence of an alkali.

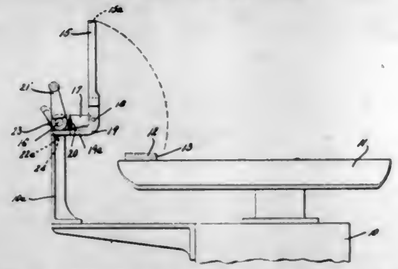
2,170,060
RECEPTACLE OR BOX
David Meyer, New Rochelle, N. Y., assignor to The Hygienol Co. Inc., New Rochelle, N. Y., a corporation of New York
Application February 3, 1938, Serial No. 188,493
3 Claims. (Cl. 229—3.5)



1. A box having a body of transparent material, the peripheral edges of said body being

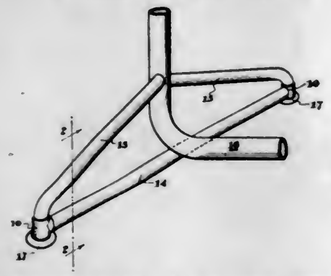
beaded and a cord situated in the bead formed in the lower edge of said body, and a cover having a bead formed on the circumference thereof, and a cord situated in said bead.

2,170,061
NECKBAND CLAMP
Edmund N. Neckel, Cincinnati, Ohio, assignor to The American Laundry Machinery Company, Norwood, Ohio, a corporation of Ohio
Application July 6, 1936, Serial No. 89,002
7 Claims. (Cl. 38—110)



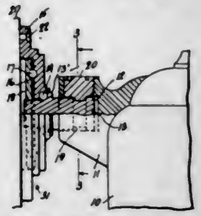
1. In a device of the character described, a frame, a neckband former, a neckband clamp adapted to coact with the forward face of said former, a shaft supported by said frame above and to the rear of said former, means supporting said clamp for rotation about said shaft and for movement rearwardly relative to said shaft, means for rotating said clamp including an arm on said shaft connected with said clamp, the parts being so proportioned and arranged that said clamp when rotated about said shaft is carried to a point slightly in front of the forward face of said former and then rearwardly into engagement with said former, a spring connected to said arm and frame, and said arm and spring being so arranged that said spring crosses the axis of said shaft during said rotation of said clamp.

2,170,062
SUPPORTING LEG
Henry P. Nordmark, Grand Rapids, Mich., assignor to American Seating Company, Grand Rapids, Mich., a corporation of New Jersey
Application March 10, 1938, Serial No. 195,014
7 Claims. (Cl. 248—194)



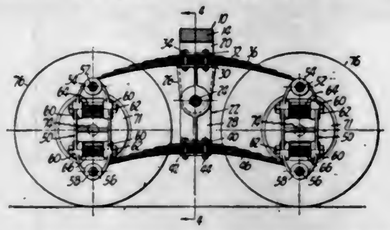
6. In a construction of the class described, a pair of spaced blocks forming supporting feet for a chair or desk, each having a portion projecting horizontally toward the other portion and each having a portion projecting vertically therefrom, a horizontally disposed tubular member whose opposite ends each fixedly embrace a horizontally projecting portion of a block, a pair of tubular supporting legs each having an end thereof fixedly embracing a vertically projecting portion of a block and whose opposite ends are each turned inwardly toward the other, a centrally disposed member having a horizontally disposed portion and a vertically disposed portion whose vertically disposed portion lies interjacent the inner ends of the tubular supporting legs and to which ends said portion is fixedly secured, and a floor engaging cap for each block.

2,170,063
WALL BRACKET FOR BOTTLES
Arthur H. Payson and Charles O. Duevel, Jr., Norwich, Conn., assignors to The American Thermos Bottle Company, Norwich, Conn., a corporation of Ohio
Application February 23, 1937, Serial No. 127,001
1 Claim. (Cl. 248—291)



In a wall bracket for bottles or the like, an internally chambered support adapted to be affixed to a wall and having an aperture therethrough, a revolvable coupling element extending through the aperture in said support, a disk secured to the inner end of said coupling element and extending radially therefrom, an annular flange on said coupling element exteriorly of the support, said disk and flange cooperating with the wall of the chamber of said support to maintain the revolvable coupling in the aperture of said support, and means for securing a bottle to the outer end of said coupling element.

2,170,064
WHEEL SUSPENSION
Theodore A. Peterman, Tacoma, Wash.
Application August 3, 1937, Serial No. 157,125
4 Claims. (Cl. 280—124)

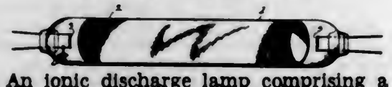


1. A vehicle wheel suspension comprising a frame element, a vertically disposed spring support member pivotally mounted on said frame element and having arms extending oppositely from said pivotal mounting, a plurality of longitudinally extending leaf springs secured centrally thereof to opposite arms of said spring support member, wheel carrying members pivotally connected to the free end of said springs and connecting the same, and a plurality of road wheels pivotally mounted on each of said wheel carrying members by means constituting a parallel linkage suspension.

2,170,065
MAKING CARBONACEOUS ZEOLITES
Ray Riley, Long Island City, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware
No Drawing. Application November 9, 1935, Serial No. 49,116
7 Claims. (Cl. 252—2)

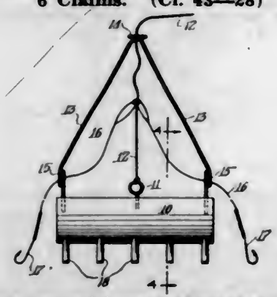
1. A process of improving material of the class consisting of lignites and soft coals for purposes of ion-exchange comprising impregnating a granular mass of said material with a weight of sulfuric acid, calculated on the basis of 100% acid, at least substantially equal to the weight of said material, said acid being diluted to a concentration of less than 70%, heating said impregnated material to concentrate the acid and produce chemical action on organic compounds in said material so that the ion-exchange properties thereof are improved, and washing residual acid from the material to preserve said properties.

2,170,066
FLUORESCENT LAMP
Samuel Ruben, New Rochelle, N. Y.
Application May 27, 1938, Serial No. 210,308
6 Claims. (Cl. 176—122)



1. An ionic discharge lamp comprising a low pressure gas-filled glass vessel containing electrodes and a mat composed of glass wool fibers having a coating of a fluorescent material.

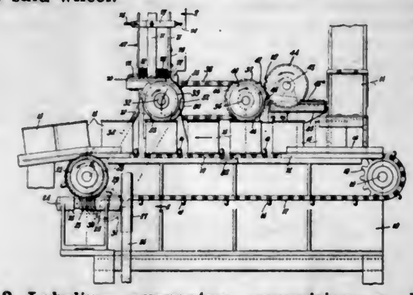
2,170,067
FISHING LURE
George J. Stephen, Richmond Hill, N. Y.
Application May 27, 1938, Serial No. 210,307
6 Claims. (Cl. 43—28)



1. A lure comprising an elongated sinker having means for attaching a line midway of the length of the sinker, and means for engaging said line at a distance from the sinker with the line passing freely through said means, and snell guides next the ends of said sinker.

2,170,068
LABELING APPARATUS
Burt E. Taylor, Mount Vernon, and John M. McClatchie, Middletown, N. Y., assignors to The Borden Company, New York, N. Y., a corporation of New Jersey
Application July 1, 1937, Serial No. 151,408
9 Claims. (Cl. 216—55)

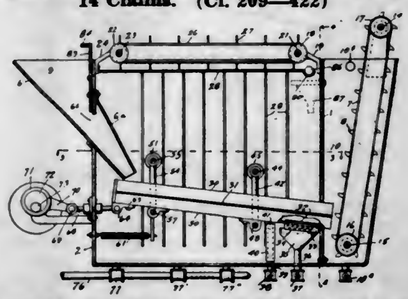
1. Labeling apparatus comprising conveying means for moving a plurality of articles along a given path, means for holding labels, a labeling wheel provided with suction gripping means for transferring labels from said holding means to said articles, and a curved guard member for holding a label against said gripping means during said transfer for protecting a label carried by said wheel.



2. Labeling apparatus comprising a label holder, a labeling wheel having a plurality of heads for removing labels from said holder, said wheel being arranged to slide a label out of said holder edgewise, and stationary brush means, associated with said holder substantially at right angles to the labels therein for preventing the removal of more than one label at a time.

4. In a labeling machine, a labeling wheel comprising a plurality of rotatable label carrying heads having a vacuum ports therein, a non-rotatable member arranged to bear against a side of said wheel, and having an opening therein connected to a vacuum producing means, and means associated with said heads during rotation thereof for operatively connecting said vacuum ports to said opening for predetermined intervals.

2,170,069
APPARATUS FOR MINERAL SEPARATION
Maurice Constant, Scobey, Mont.
Application March 10, 1937, Serial No. 130,209
14 Claims. (Cl. 209—422)

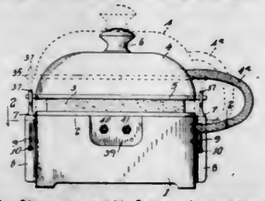


1. In a machine for recovering fine particles of metal from an aqueous mechanical solution thereof, the combination with a tank containing a body of aqueous liquid and having an inclined submerged riffle box mounted therein, of means for slowly passing a stream or current of such solution along and through the riffle box under a substantial head of water, and for drawing off the precipitant at the lower end of the riffles, a series of transverse baffles secured in the tank adapted to restrict longitudinal movement of fluid therein, above and at both sides of the said current, and means for vibrating the riffle box.

2,170,070
AUTOMATIC TOASTER
Bert R. Deleray, Los Angeles, Calif.
Application April 28, 1937, Serial No. 139,444
10 Claims. (Cl. 219—19)

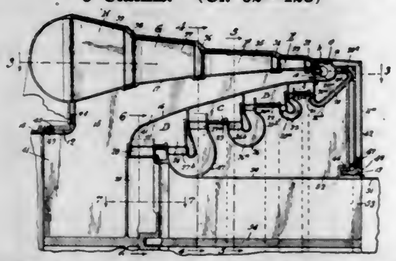
3. In a toaster, the combination of a relatively

fixed heating plate, a movable heated cover plate, means for guiding the cover plate to slide toward or from the relatively fixed plate to press the bread against the same, resilient means for counterbalancing the weight of the relatively movable plate against the bread, latching means for latching the relatively movable plate against the bread, heating elements associated with the said plates for heating the same, means for establishing an electric circuit through the heating ele-



ments including a switch, automatic means for opening the switch and releasing the latching means after the expiration of sufficient time to permit the bread to be toasted, to permit the said resilient means to move the relatively movable plate away from the bread, an ejector for the bread in the path of the bread when the same is inserted between the heating plates, and means connecting the ejector with the switch for closing the switch automatically when the bread is put in place between the heating plates.

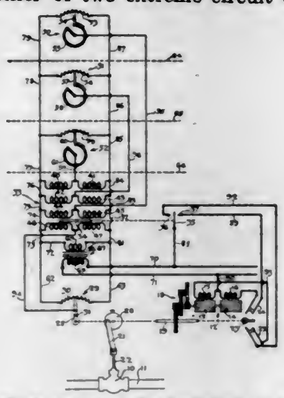
2,170,071
APPARATUS FOR SEPARATING GASES
Emery C. Furrer, Chicago, Ill.
Application August 28, 1936, Serial No. 98,292
5 Claims. (Cl. 62—123)



1. Mechanism for separating gases comprising an annular centrifuging chamber for the mixed gases reducing in cross sectional area from the intake to the exhaust end thereof, turbine impeller chambers in heat transfer relation with the inner and outer peripheries of said centrifuging chamber and each having an intake end communicating with the exhaust end of said chamber, means for directing separated gases from said exhaust end into said turbine impeller chambers, and turbine impeller blades in said impeller chambers operable by the gases flowing through the same for effecting rotation of the centrifuging chamber for effecting compression of the gases flowing therethrough and centrifugal separation thereof.

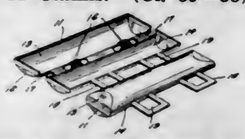
2,170,072
CONTROL SYSTEM
Henry E. Hartig, Robbinsdale, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application November 4, 1936, Serial No. 109,122
11 Claims. (Cl. 236—74)

1. In combination, an electrically operated device, circuit connections for said device including a switch, operating means for said switch comprising two opposed sets of electromagnetic windings, each set comprising a plurality of portions, said means being effective upon unequal energization of the two sets of windings to move said switch to either of two extreme circuit control-



ling positions, a source of electrical energy for energizing both sets of windings, and means including a plurality of potentiometers controlling the relative energizations of said sets of windings, each of said potentiometers controlling the energization of a separate portion of each set of windings.

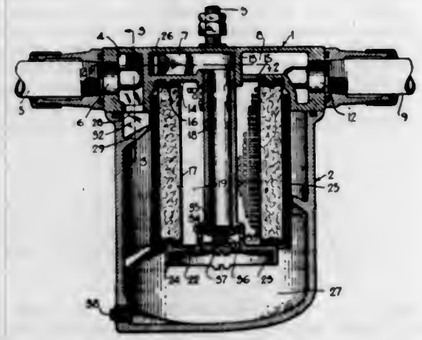
2,170,073
ORNAMENTAL CHAIN
William F. Hess, Pawtucket, R. I., assignor to Armbrust Chain Company, a corporation of Rhode Island
Application December 27, 1938, Serial No. 247,852
11 Claims. (Cl. 59—35)



1. The method of assembling an ornamental chain having links, each link comprising link sections joined by a connecting bar with openings and spaced lugs on opposite sides of said openings, one of said sections having a tab, said tab being aligned with the spaced lugs and having an opening, comprising the steps of positioning adjacent link sections with the tab of one section passing through the bar opening of the other section, and moving the link sections to join while turning the spaced lugs to abut within the tab opening.

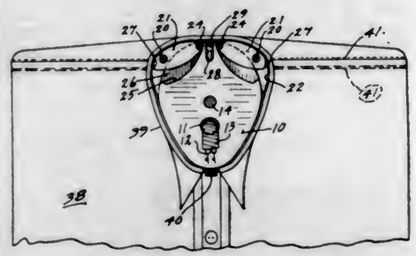
2,170,074
AIR FILTER
Ellis E. Hewitt, Edgewood, Pa., assignor to Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application October 15, 1936, Serial No. 105,660
9 Claims. (Cl. 183—49)

1. In an air strainer device for fluid pressure systems, in combination, a cylindrical casing having a dirt and moisture collecting chamber therein, a strainer therein having a central duct and positioned vertically above said chamber in the path of fluid flowing from said chamber and adapted to permit the flow of fluid radially inwardly therethrough, supporting means for the lower end of said strainer comprising a cup member having a downwardly extending outer rim



forming an air pocket to prevent liquid in said chamber from rising into direct contact with said supporting member.

2,170,075
NECK BAND IRONER
Mayo Holloway, Birmingham, Ala.
Application April 18, 1936, Serial No. 75,087
10 Claims. (Cl. 38—110)

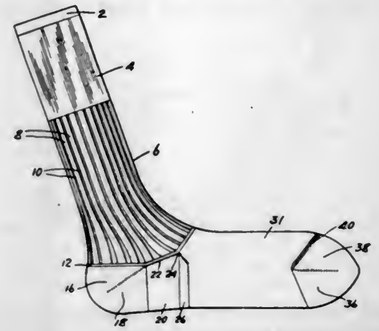


10. An ironer for neck bands, comprising a heater block designed to conform to the normal shape of the front portion of a closed neck band, a curved spring band ironer adapted to embrace and be heated by the marginal edges of said block, means mounted on the block and movable relatively thereto to support and expand the spring band outwardly and shift it bodily rearwardly against the back of the neck band to stretch the latter, and movable means to actuate said expander means and cause the spring band to both stretch and iron the neck band.

2,170,076
STOCKING AND METHOD OF MAKING THE SAME
Wilbur L. Houseman, Maplewood, N. J., assignor to Scott and Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application January 5, 1939, Serial No. 249,524
6 Claims. (Cl. 66—185)

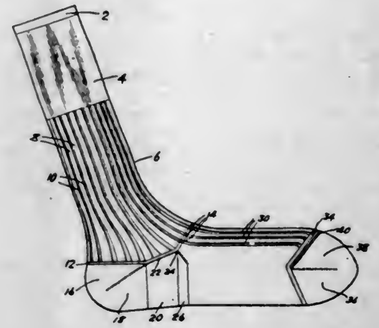
1. A knitted stocking comprising integrally knitted leg, heel and foot portions with a gore formed by reciprocatory knitting located between

the heel and foot portions and extending above the heel portion, said leg being provided with de-



sign structure comprising selectively reversely concatenated loops.

2,170,077
STOCKING AND METHOD OF MAKING THE SAME
Harry A. Houseman, Laconia, N. H., assignor to Scott and Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application January 5, 1939, Serial No. 249,523
6 Claims. (Cl. 66—185)

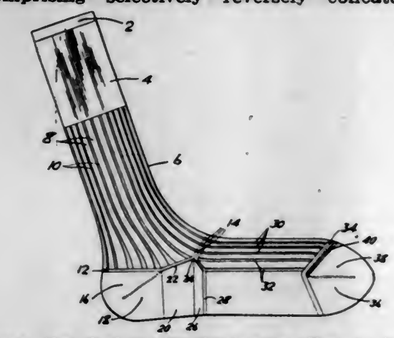


1. A knitted stocking comprising integrally knitted leg, heel and foot portions with a gore formed by reciprocatory knitting located between the heel and foot portions and extending above the heel portion, the leg and instep part of the foot portion being provided with design structure comprising selectively reversely concatenated loops.

2,170,078
STOCKING AND METHOD OF MAKING THE SAME
Harold E. Houseman, Laconia, N. H., assignor to Scott & Williams, Incorporated, Laconia, N. H., a corporation of Massachusetts
Application January 5, 1939, Serial No. 249,525
6 Claims. (Cl. 66—185)

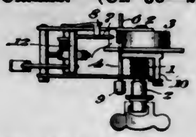
1. A knitted stocking comprising integrally knitted leg, heel and foot portions with a gore formed by reciprocatory knitting located between the heel and foot portions and extending above the heel portion, the leg and instep part of the

foot portion being provided with design structure comprising selectively reversely concatenated



loops, the design structure extending in the instep below the top of said gore.

2,170,079
ALARM CLOCK
Helmut Junghans, Eckenhof in Sulgen, near Schramberg, Germany
Application May 4, 1936, Serial No. 77,893
In Germany April 8, 1935
4 Claims. (Cl. 58—22)

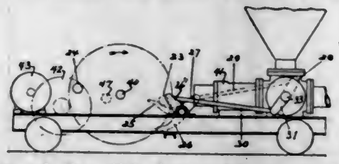


1. In an alarm clock, an alarm mechanism, a thread on the arbor of the main spring of the clock movement, a stopping lever adapted to lock the said alarm mechanism, an arm on the said lever engaging in the said thread and adapted to be shifted axially of the arbor by the said thread as the clock movement advances for the purpose of releasing the said alarm mechanism, and means indicating the point of introduction of the said arm in the said thread for the purpose of adjusting as desired the time of release of the said alarm mechanism.

4. In an alarm clock, an alarm mechanism, a disc mounted firmly on the arbor of the mainspring of the clock movement, said disc having a spiral groove commencing near the centre thereof and extending to the periphery of the said disc, a stopping lever adapted to lock the said alarm mechanism, a flexible arm on the said lever engaging in the said groove and adapted to leave the groove as the clock movement advances for the purpose of releasing the said alarm mechanism, and means indicating the point of introduction of the said arm into the said groove for the purpose of adjusting as desired the time of release of the said alarm mechanism.

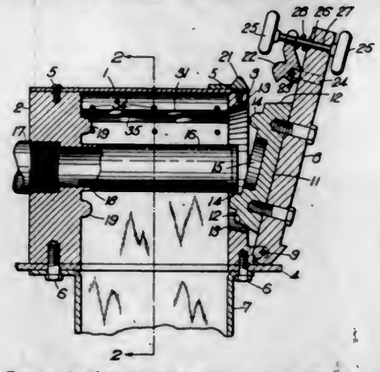
2,170,080
CONTROL MEANS FOR VALVES FOR CONCRETE DELIVERY PUMPS
Otto Kaiser, St. Ingbert, Germany
Application April 2, 1938, Serial No. 199,727
In Germany December 24, 1935
7 Claims. (Cl. 103—227)

1. In a concrete delivery pump having a cylinder, a piston, a pump shaft, means on the shaft for reciprocating the piston, an intake, a discharge and an oscillating valve for selectively placing the intake and discharge in communication with the pump cylinder, a control device for said valve comprising a rotary driving disk, an abutment member mounted on the face of said disk adjacent the periphery thereof, a curved swingable lever rotatably mounted and projecting into the path of said abutment member whereby the lever makes contact during a period of rotation of the disk and thereby effects a movement of said curved lever during said period, a second swingable curved lever rotatably mounted and projecting into the path of said abutment to make contact therewith during a period of



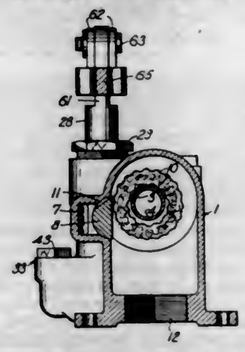
rotation of the disk intermittent of said first mentioned period to impart angular movement to said second swingable lever, rod mechanism operated by the angular movement of said first-mentioned curved lever and connected to said valve to shift the same to one position, and lever mechanism operated by the angular movement of said second-mentioned swingable lever and connected to said first-mentioned lever and the rod mechanism to shift said valve to another position during the angular movement of said second-mentioned swingable lever.

2,170,081
STRAINER CLEANING DEVICE
Walter B. Kirk, East McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 3, 1935, Serial No. 29,634
3 Claims. (Cl. 15—20)



1. In a device of the class described, a body having a chamber having an opening in a wall thereof through which a strainer element may be inserted, the wall of said chamber opposite said opening having a member projecting therefrom adapted to extend into and support a strainer element for rotation about its axis, said wall of said chamber having an annular flange thereon extending into said chamber, said flange being arranged substantially concentric of said member and being adapted to extend into an annular recess in the end of a strainer element mounted on said member, said body having a door associated therewith and adapted to close the opening in the wall of said chamber, said door having an annular flange thereon which is disposed substantially concentric of said member when the door is in its closed position, the flange on said door being adapted to extend into an annular recess in the end of a strainer element mounted on said member, said member having associated therewith means for supplying fluid under pressure to the area within a strainer element mounted thereon, and means for rotating said strainer element in said chamber at a rapid rate, whereby substantial centrifugal force is developed tending to dislodge foreign material embedded in said strainer element and to cause said foreign material to move radially outwardly through said strainer element, the flanges on the door and on the wall of said chamber being adapted to prevent undesired escape of fluid around the ends of the strainer element but not to press against the strainer element to materially oppose rotation thereof.

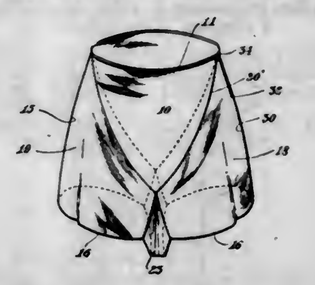
2,170,082
STRAINER CLEANING DEVICE
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 13, 1935, Serial No. 31,293
5 Claims. (Cl. 141—1)



1. The method of cleaning an annular strainer which consists in rotating the strainer at high speed and in simultaneously passing a gaseous stream of fluid under pressure together with a grease solvent solution radially outwardly therethrough, and in thereafter continuing the rotation of the strainer and the passage only of the gaseous stream of fluid under pressure therethrough to dry the strainer.

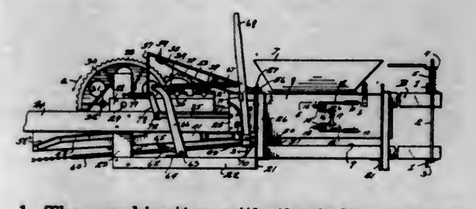
2,170,083
GARMENT
Harriet S. Kohler, Westport, Conn.
Application March 22, 1937, Serial No. 132,315
1 Claim. (Cl. 2—224)

A nether garment comprising body and leg portions and being formed from a plurality of substantially triangular blanks of material, two of such blanks comprising the front and rear body portions of the garment, one edge of each of such blanks being on the straight of the material and forming the upper edges of the garment, the terminals of the edges of each of such blanks being joined together to form a waist encircling portion, the two remaining edges of each of such blanks being on the bias and extending downwardly and inwardly toward the crotch portion of the garment, each leg portion being formed from a pair of blanks joined together along bias edges to form a side seam extending from the upper to the lower edge of the garment, a second edge of each of said blanks constituting the lower edge of the leg portions and a third edge thereof being on the straight and



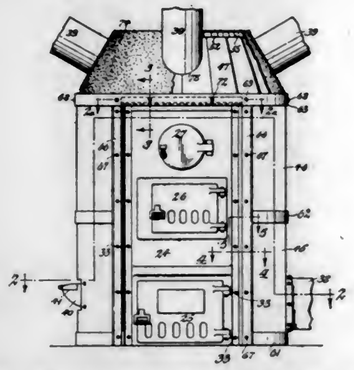
being joined to one bias edge of the blanks constituting the front and rear body portions, and a crotch piece joining the front and rear body portions to complete the leg portions.

2,170,084
BALING PRESS
Albert J. Kruse, Fredericksburg, Tex.
Application July 11, 1936, Serial No. 90,247
4 Claims. (Cl. 100—7)



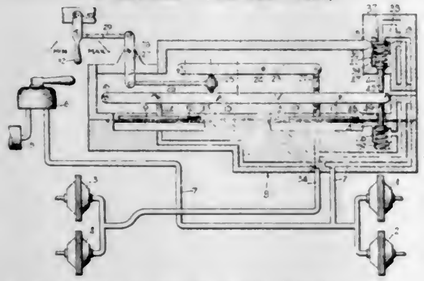
1. The combination with the baling chamber of a press; of a reciprocating plunger coacting with said chamber and including an elongated member, a rotatable member, coacting means carried by the rotatable member and the elongated member of the plunger for moving the plunger on its compression stroke upon rotation of said rotatable member, a swinging member positioned below the elongated member of the plunger to engage said elongated member upon movement of the swinging member in one direction to maintain the elongated member in position for movement by said coacting means, a rock lever movable with said swinging member, a second lever supported for swinging movement, a retractile spring connecting the rock lever and the second lever, movement of the second lever in one direction imposing pull upon the rock lever in a direction to cause the swinging member to maintain the elongated member in position for movement by the said coacting means, means for releasably holding the second lever against return movement, a rock arm supported for movement adjacent to the elongated member, means associated with the rock arm for contact by the second lever when swung in a direction to make the connecting spring inoperative for moving the rock arm in a direction to contact with the elongated member to move said elongated member into inoperative position with respect to the rotatable member, means for normally maintaining the rock arm at the limit of its movement in the opposite direction, and means for retracting the plunger when the elongated member is free of the rotatable member.

2,170,085
INSULATING COVERING FOR HOT AIR FURNACES
Carl Lengyel, Buffalo, N. Y.
Application December 2, 1938, Serial No. 243,601
8 Claims. (Cl. 126—114)



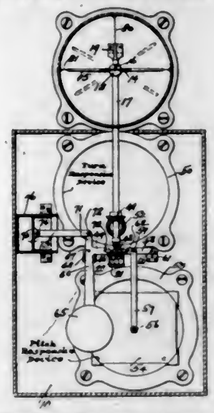
1. An insulation covering for a hot air furnace having an upright cylindrical housing body, an upwardly tapering housing crown extending upwardly from the upper edge of the body and a housing deck connected with the upper edge of the crown, said covering comprising an upright cylindrical body shell surrounding the housing body, an upwardly tapering crown shell surrounding the housing crown and a deck shell arranged above the housing deck, a supporting ring interposed between the marginal parts of said decks, and an insulation arranged between said housing and shell members.

2,170,086
FLUID PRESSURE BRAKE
Joseph C. McCune, Edgewood, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 17, 1936, Serial No. 91,049
9 Claims. (Cl. 188—152)



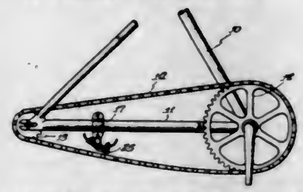
1. In a fluid pressure brake equipment for vehicles, in combination, pressure brake chambers for applying brakes on the rear vehicle wheels, pressure brake chambers for applying brakes on the front vehicle wheels, means for supplying fluid under pressure to said rear brake chambers, regulating means responsive to the pressure at which fluid is supplied to said rear brake chambers for controlling the supply of fluid under pressure to said front brake chambers to maintain a predetermined ratio between the pressures in said front and rear chambers, and manually operable means for gradually adjusting between two valves the ratio between the pressure at which fluid is supplied to said front brake chambers and the pressure at which fluid is supplied to said rear brake chambers.

2,170,087
AIRPLANE INDICATOR
Harry L. McPherson, Memphis, Tenn.
Application July 31, 1936, Serial No. 93,736
10 Claims. (Cl. 33—204)



8. In an indicator for an airplane, a shaft, vertically disposed and carried by said plane, a rocker means establishing normally horizontal pivotal connection between said rocker and said shaft; a member, means establishing normally horizontal pivotal connection between said rocker and said member, at right angles to said first pivotal connection, an indicator, means connecting said indicator to said member; means carried by said plane and responsive to improper banking of said plane, means connecting said bank-responsive means with said rocker at a point laterally off-set from the second said pivotal means, to effect oscillating movement of said indicator about its longitudinal axis, pitch-responsive means carried by said plane, and means connecting said pitch-responsive means to said rocker at a point off-set from said first pivotal means to oscillate said indicator about said laterally disposed pins.

2,170,088
STOP SIGNAL CONTROL
James M. Murray and Thomas J. Murray, Chicago, Ill.
Application September 24, 1936, Serial No. 102,427
14 Claims. (Cl. 200—52)



1. In a bicycle having wheels, a drive chain and a frame including a frame member located adjacent said chain, a bracket carried by said frame member, a normally open switch carried by said bracket within the loop of said chain and in vertically spaced proximity to one run thereof, said chain run being movable vertically to engage said switch and close the same upon a change of tension of said run occasioned by the application of force in a reverse direction to the pedals of said bicycle.

2,170,089
SEAL FOR BAGS
Verner A. Nelson, Minneapolis, Minn., assignor of one-half to Joseph Whelan, New York, N. Y.
Application August 29, 1938, Serial No. 227,355
3 Claims. (Cl. 292—308)



1. In a seal, a tying filament, and a body through which said filament passes and which has a cut-out portion through which the filament passing through the body may be severed, said filament being encased in said body above and below said cut-out portion.

2,170,090
PHONOGRAPH RECORD
Frank V. Paul, New York, N. Y.
Application October 12, 1938, Serial No. 234,557
2 Claims. (Cl. 274—44)



1. In a phonograph record adapted for use in dictation recordings, the combination of a cylindrical body member having an exterior recording surface and two shoulders, one at each end of the body member, which do not receive dictation recordings, but are, with the dictation recording surface, shaved after each recording to expose a new surface, said shoulders being a part of the mass of the body member and spaced from the body member by circumferential grooves extending from the exterior dictation surface to a depth where the grooves will not be obliterated after the record has been shaved to such a depth as to render it unfit for further dictation uses, the width of each groove being smaller than its depth, said grooves and spaced shoulders preventing the passage of cracks, fissures and fractures resulting from shocks sustained by the shoulders to the dictation recording surface of the body member.

2,170,091
TACK BUTTON
Frederick H. Peterson and Rollin R. Clarke, Watertown, Conn., assignors to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application January 3, 1939, Serial No. 249,135
6 Claims. (Cl. 40—20)



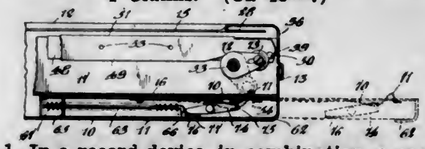
1. A button head capable of being oriented having indicia or the like on its face, an integral hub, flats formed on the hub, and the end of the hub having a defining wall formed therein parallel with the flats and bearing a definite relation to the indicia.

2,170,092
TACK BUTTON
Frederick H. Peterson and Rollin R. Clarke, Watertown, Conn., assignors to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut
Application May 4, 1939, Serial No. 271,766
8 Claims. (Cl. 40—20)



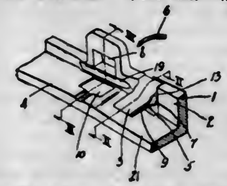
1. A button head consisting of a shell, the said shell having an integral hollow hub, flats formed in the hub and the end of the hub having an aligning wall parallel with the flats, means within the shell for deforming the prong of a tack fastener, a cap on said shell having insignia thereon, and the insignia bearing a definite relation to the flats and aligning wall on the hub.

2,170,093
PORTABLE AUTOGRAPHIC REGISTER
William A. Pringle, Niagara Falls, N. Y., and Charles J. Manuel, Dover, N. H., assignors to American Sales Book Company, Inc., Niagara Falls, N. Y., a corporation of Delaware
Application March 11, 1935, Serial No. 10,398
4 Claims. (Cl. 45—7)



1. In a record device, in combination, a casing having a compartment in which a projectable and retractible sheet-supporting drawer is mounted, a rod anchored to the record device and extending alongside of said drawer, a spiral spring mounted on said rod, a follower plate attached to said drawer and engaging said spring to stress it when the drawer is in closed position, and a spiral spring buffer mounted on said rod for cushioning opening movement of said drawer.

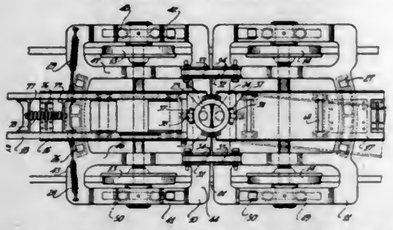
2,170,094
METHOD OF AND MACHINE FOR MAKING BAGS
Fred Ricks, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application January 27, 1937, Serial No. 122,513
In Great Britain March 21, 1936
12 Claims. (Cl. 112—2)



1. The combination in a machine for sewing bags or like articles, consisting of sheets of material arranged at an angle with relation to each

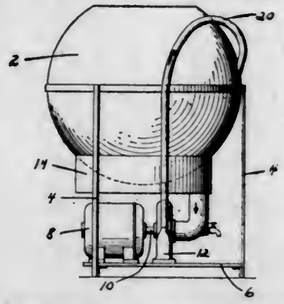
other and secured together at their edges to form a corner, of means for supporting the sheets at an angle to one another with portions adjacent the corner at an inclination to and intersecting the needle path, and means for guiding a beading strip comprising a bead portion along one edge and an attaching flange portion to the sewing point with the flange portion of the strip between abutting surfaces of the sheets, and with the bead portion projecting from the outer surface of the bag whereby said strip is secured in position by the same sewing operation which secured the sheets together.

2,170,095
TRUCK
George T. Ronk, Lanark, Ill.
Application March 4, 1935, Serial No. 9,135
19 Claims. (Cl. 105—4)



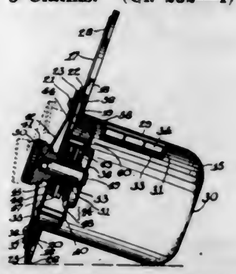
1. In a truck for the cars of an articulated type train, two truck segments each pivotally attached to its respective car means for securing the cars together, and separate means for securing the segments together to form a single truck with a single operative pivotal center, the first named means being adjacent the last named means.

2,170,096
WASHING MACHINE
William W. Russell, Brookline, Mass.
Application October 15, 1936, Serial No. 105,690
1 Claim. (Cl. 68—184)



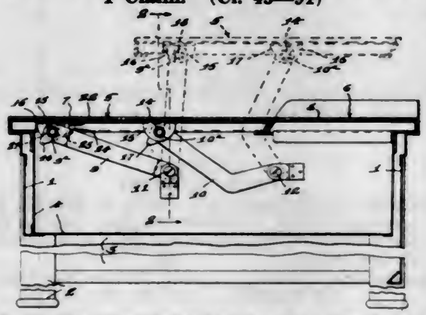
A washing machine, comprising a substantially spherical receptacle having a completely unobstructed interior, said receptacle having a bottom outlet comprising a plurality of holes through the bottom of said receptacle, said holes covering a relatively large area, a single inlet flush with the inner side of said receptacle and directed at said outlet but remote therefrom, a conduit including a pump connecting said outlet and inlet to circulate water in said receptacle, said receptacle adapted to hold textiles, that may be placed in said receptacle, in unobstructed ball-like form while said textiles are rotating within said receptacle by said circulating water, the area covered by said outlet holes being sufficiently great so that all of the textiles on which incoming water impinges will pass thereover immediately thereafter whereby a quick reversal of water travel through said textiles may be secured.

2,170,097
SAVINGS BANK
Harry E. Soref and James Keith Marshall, Milwaukee, Wis., assignors to Master Lock Company, Milwaukee, Wis., a corporation of Wisconsin
Application January 9, 1937, Serial No. 119,739
8 Claims. (Cl. 232—4)



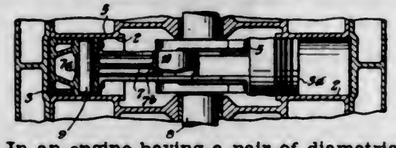
1. In a savings bank, the combination of a hollow body having an opening, and a removable closure for said opening having permutation lock mechanism including a rotatable handle-forming adjusting member and a spring-rectracted locking member movable into locking engagement with said body, said locking member being carried on said closure and when retracted permitting removal of the closure and having a detent engagement with said handle-forming adjusting member to permit the closure to be removed and carried by said adjusting member without disarranging the adjusted permutation, and said adjusting member having an actuating connection with said locking member for moving said locking member to locking position.

2,170,098
DESK CONSTRUCTION
Samuel S. Stephenson, New York, N. Y., assignor to The O. M. Edwards Company, Inc., Syracuse, N. Y., a corporation of New York
Application September 18, 1936, Serial No. 101,482
1 Claim. (Cl. 45—91)



In a desk, the combination with a suitable body having a desk top movable from closed position upwardly, means for guiding the desk top during its opening and closing movement including links pivoted at like ends to each side of the desk top and at their opposite ends to the body, a rod rigidly connecting the link at one side of the desk to the corresponding link on the opposite side of the desk and extending through said link with its end portions extending beyond the outer sides of the links, each end portion forming a pivotal connection with the desk top, the desk top having bearings on the under side thereof through which each end portion extends; coiled torsion springs mounted on the projecting ends of the rod and having the portions thereof pressing against the desk top and the adjacent links, the desk top being formed with marginal thickened portions on the under side thereof and the ends of the rod being opposed to the inner faces of said thickened portions, to normally prevent endwise movement of the springs off said projecting end portions said bearings being split and including removable sections operable out of operative position to open the bearings for permitting displacement of the rod and the projecting end portions thereof out of alinement with said thickened portions to make the springs accessible for removal and replacement.

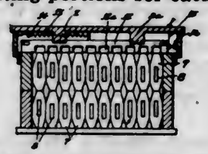
2,170,099
ENGINE HAVING DIAMETRICALLY OPPOSED CYLINDERS
Alfred James Stubings, Richmond, England, assignor to Tilling-Stevens Limited, Maidstone, Kent, England, a British company
Application November 30, 1937, Serial No. 177,391
In Great Britain December 15, 1936
2 Claims. (Cl. 123—56)



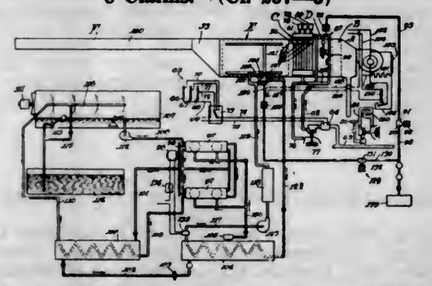
1. In an engine having a pair of diametrically opposed cylinders, a crank-shaft journalled between said cylinders, said crank-shaft including spaced web members supporting a crank-pin therebetween, opposed pistons operating in said cylinders and a connecting rod coupling one of said pistons to the crank-pin; rigid connecting means between said pistons comprising two spaced connecting plate members the extremities of which are fixedly secured to the respective pistons, said plates disposed on opposite sides of the connecting rod and between the planes defined by the confronting inner surfaces of the crank-pin supporting web portions of the crank-shaft, each of said plates having a centrally disposed ring shaped portion defining an opening of sufficient size to accommodate the movement of the crank-pin and the bearing portion of the connecting rod secured thereto.

2,170,100
CODE SETTING DEVICE FOR SIGNAL SYSTEMS
Tellef A. Terjesen, Hoboken, N. J., assignor to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts
Application January 17, 1935, Serial No. 2,241
3 Claims. (Cl. 177—380)

1. A code setting device comprising code determining members of identical shape and size and each symmetrical about a center line, each member having a slot therein which is offset with respect to said center line, means for mounting said members one behind the other in a series with their peripheries in alignment for independent shifting movement, certain of said members being mounted reversely to the other members whereby a common aligned slot is formed with the slot ends of said certain members projecting into the common slot and a code setting member movable in the common slot and having identical shifting portions for each of said members, whereby upon movement of said code setting member in said common slot the said certain determining members having their slot ends projecting into the common slot will be shifted to compose the code.



2,170,101
AIR CONDITIONING SYSTEM FOR RAILWAY CARS
Ellis W. Test, Hinsdale, Martin P. Winther, Waukegan, and Hartin F. Peterson, Chicago, Ill., assignors, by mesne assignments, to Pullman-Standard Car Manufacturing Company, a corporation of Delaware
Application July 15, 1931, Serial No. 550,904
Renewed May 2, 1938
8 Claims. (Cl. 257—3)



1. A system for conditioning the air of a railway car and the like comprising an air conditioning chamber, a fan at one end of the chamber delivering a predetermined ratio of circulated air and fresh air to the chamber, an air filter adjacent the fan in the path of the mixed air, a thermostatically controlled steam heating coil in the chamber, a humidifier intermediate the filter and the heating coil normally operable whenever the heating coil is in operation but hygrostatically controlled to prevent excessive humidity and a thermostatically controlled cooling coil adjacent the heating coil, said cooling coil serving to temper the air upon receiving heat from the heating coil.

6. In an air conditioning system, the combination of a heating coil, a cooling coil, a fan for delivering air to said coils, and automatic means for increasing the speed of the fan when the cooling coil is in operation.

2,170,102
CELLULAR PRODUCT AND METHOD OF MAKING THE SAME
Richard C. Thompson, Cohasset, Mass., assignor to F. E. Berry Jr. & Co., Inc., Boston, Mass., a corporation of Massachusetts
No Drawing. Application December 5, 1936, Serial No. 114,453
12 Claims. (Cl. 106—19)

10. The method of making a cellular product

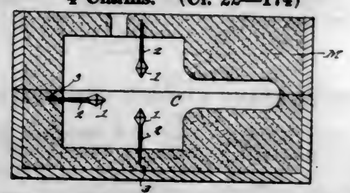
which comprises mixing a granular filler with an aqueous solution of an alkali silicate, beating the mixture to aerate the same and form a cellular foamy liquid of predetermined increased volume, immediately heating the aerated foamed liquid at a relatively low temperature to dry the same until it has set to a substantially solid cellular structure, and thereafter continuing the drying at elevated temperature.

2,170,103

METHOD OF AND MEANS FOR PRODUCING CASTINGS

C. Edward Westover, Chicago, Ill.

Application October 10, 1938, Serial No. 234,234
4 Claims. (Cl. 22—174)



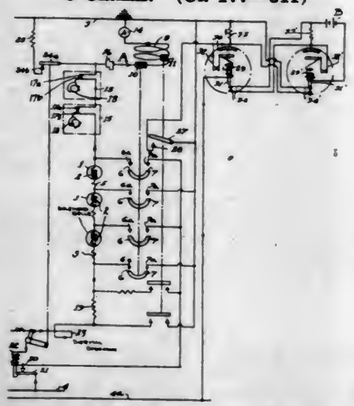
3. The combination with a mold having a cavity for receiving molten metal, of separate chills each supported at one end by the mold and having its other end portion extended into the mold cavity, said chills being extended in opposite directions from points adjacent to the center of the cavity and each chill having all of its surfaces extending upwardly within the cavity, all of the chills being positioned for gradual submergence by the rising level of molten metal while being poured into the cavity.

2,170,104

FAULT-INDICATING MEANS FOR SIGNAL SYSTEMS

John H. Wheelock, Fitzwilliam, N. H., assignor to Signal Engineering & Manufacturing Company, New York, N. Y., a corporation of Massachusetts

Original application June 4, 1934, Serial No. 728,812. Divided and this application April 15, 1936, Serial No. 74,567
8 Claims. (Cl. 177—311)



1. In a normally closed electrical system carrying a small supervisory current, a fault-indicating signal, means for energizing said signal to cause its operation in response to any interruption in the flow of said supervisory current in the system, means for maintaining the flow of a small supervisory current through said signal insufficient to cause operation thereof, a second signal for indicating any interruption in the flow of supervisory current through the first signal, means for maintaining the flow of a small supervisory current through the second signal, and means for causing the first signal to operate upon any interruption in the supervisory current through the second signal.

2,170,105

DISPENSER

Walter E. Amberg, Chicago, Ill., assignor to Universal Paper Products Company, Chicago, Ill., a corporation of Illinois

Application January 25, 1937, Serial No. 122,185
3 Claims. (Cl. 312—43)



3. A dispensing device for paper cups having converging side walls, said device having a circular emerging area which gradually changes to a polygonal exit with at least three sides as it progresses in a downward direction and which tapers inwardly at alternately arranged portions in general conformity to the slope of the converging side walls of the cup, said inwardly tapered portions terminating in the sides of the polygon at the exit and being adapted to support a stack of cups, and said dispenser having non-supporting portions between said downwardly and inwardly tapering portions into which the bottom cup of the stack is adapted to recede gradually without creasing as it is withdrawn through the cup exit.

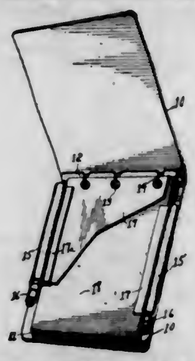
2,170,106

LOOSE-LEAF BINDER

Elijah Anthony, Jamestown, R. I.

Application January 11, 1938, Serial No. 184,414
3 Claims. (Cl. 281—3)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a loose-leaf binder of the type having a cover, a filler of leaves smaller than the cover, and means removably retaining said filler in said cover; the improvement comprising a relatively sturdy division member, as compared with said leaves, also removably retainable by said retaining means, said division member being cut away to expose a major portion of the associated filler and carrying at an outer edge thereof an open loop sized to frictionally receive and retain a writing instrument, said loop-carrying edge extending beyond the edge of the associated filler yet within the edges of the cover, whereby said division member may serve as a selectively positionable bookmark or divider and at the same time serve as means for removably retaining a



writing instrument in longitudinal juxtaposition with and beyond an edge of the filler yet shielded by the edge of the cover.

2,170,107

PROCESS FOR BLEACHING TOBACCO

Hermann Baier, Frankfort-on-the-Main, Germany, assignor to Deutsche Gold und Silber Scheideanstalt vormals Roessler, Frankfort-on-the-Main, Germany, a corporation of Germany

No Drawing. Application January 27, 1936, Serial No. 61,053. In Germany January 28, 1935
4 Claims. (Cl. 131—6)

1. A process of bleaching tobacco which comprises first moistening the tobacco with a solution of hydrogen peroxide and subsequently subjecting said tobacco to the action of a reducing agent which will reduce and destroy residual hydrogen peroxide.

2,170,108

STABILIZED HYPOCHLORITE SOLUTION AND METHOD THEREFOR

Larry J. Barton, Oakland, Calif., assignor to Clorax Chemical Co., Oakland, Calif., a corporation of Delaware

No Drawing. Application April 1, 1936, Serial No. 72,098
6 Claims. (Cl. 23—86)

1. A stable aqueous hypochlorite solution substantially free of basic hydroxide, said solution having a concentration of available chlorine greater than that corresponding to an aqueous solution of sodium hypochlorite having a strength of 3% by weight.

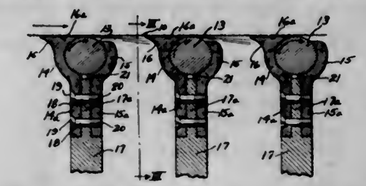
2,170,109

FORMING WIRE SUPPORT FOR PAPER MACHINES

Earl E. Berry, Beloit, Wis., assignor to Beloit Iron Works, Beloit, Wis., a corporation of Wisconsin

Application December 15, 1937, Serial No. 179,863
3 Claims. (Cl. 92—44)

1. In a paper making machine having a forming wire trained around a breast roll and a couch roll, a plurality of closely spaced parallel small diameter table rolls mounted under the upper run of the forming wire between the breast roll and couch roll for supporting the wire and elongated journals rotatably supporting the rolls throughout substantially their entire length and extending for more than 180° around the rolls, the improvement which comprises an extension on each journal on the breast roll side of the table roll, said extension curved around the roll almost to the top thereof and extending laterally outward from the top of the roll toward the breast roll to a point spaced from the table roll but terminating short of the adjacent table roll journal, said extension defining a flat surface ahead of the table roll immediately under the wire that operates to stop drainage through the wire and to wipe off films of liquid carried by the under side of the wire and said curved portion of the extension operating to prevent water on the roll from being thrown up against the wire.

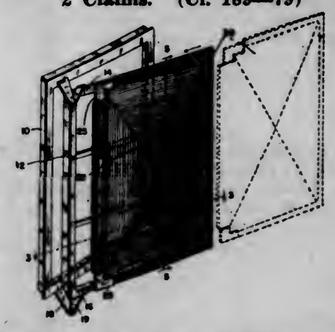


2,170,110

SUPPLEMENTAL PROTECTIVE CLOSURE

William N. Booth, Detroit, Mich.

Application July 2, 1937, Serial No. 151,714
2 Claims. (Cl. 189—79)

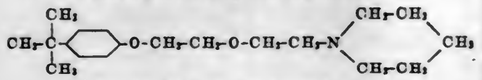


1. In combination with a substantially rectangular swingable closure having opposed outwardly extending marginal flange portions upon all four edges, a frame with which said closure is swingably associated, and locking means for the closure arranged to draw and hold said flanged portions tightly against said frame, a supplementary cover member having overbent retaining portions adapted to overengage said flanges and bent inwardly toward each other over one face of the cover member, two of such opposed retaining portions forming grooves fitting relatively snugly and slidable over the correspondingly opposed flanges, the other opposed closure retaining portions being so arranged that the distance between the bottom of the groove formed by one thereof, and the nearest edge of the overbent portion of the other is greater than the extreme distance between the outside edges of the corresponding flanges of the closure overengaged thereby, the distance between the inturned edges of the second-named retaining means being less than the distance between the outside edges of the mating closure flanges overengaged thereby, whereby two of said opposed retaining portions are engageable with the flanges only by sliding thereover, while at least one of said re-

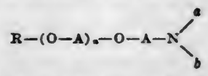
taining portions is movable perpendicularly over the edge of its flange portion before being slid into engagement therewith.

2,170,111
MANUFACTURE OF AMINES
Herman A. Bruson, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.
No Drawing. Application May 28, 1936, Serial No. 82,184
15 Claims. (Cl. 260—293)

3. A compound having the formula



14. An amine having the general formula—

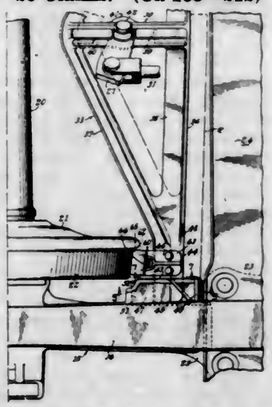


in which R is an aromatic radical of the group consisting of radicals of the benzene and naphthalene series, A represents lower alkylene radicals containing more than one carbon atom, *n* is an integer less than 3, and



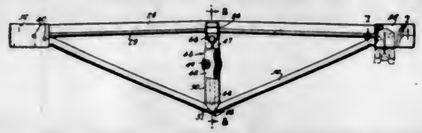
is selected from the group consisting of NH_2, primary and secondary lower alkyl, lower alkylol, cycloalkyl, and aralkyl amine radicals and saturated heterocyclic amine radicals.

2,170,112
CONSTRUCTION OF CAR TRUCKS AND WORKING PARTS THEREOF
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application March 15, 1937, Serial No. 130,881
23 Claims. (Cl. 188—212)



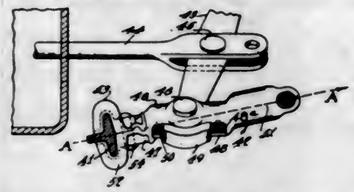
1. A car truck, including side frames, each having bolster guiding columns, a brake-beam extending transversely of and between the frames and guided at its ends on the frames in a direction to and from the columns and to and from the wheels, brake mechanism operably connected with the beam, and stop means between the columns to limit the extent of movement of the beam on releasing the brake mechanism.

2,170,113
TRUSSED BRAKE BEAM
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application April 3, 1937, Serial No. 134,792
10 Claims. (Cl. 188—222)



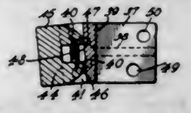
1. A trussed brake beam with end portions each consisting of a solid mass of metal integral with and uniting the compression and tension members between the end portions and having substantially parallel upper and lower surfaces adapted for the mounting of brake heads thereupon, and which are continuous across the end portions, such portions having relatively large dimensions extending in the plane of the compression and tension members.

2,170,114
BRAKE BEAM STRUT
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application August 7, 1937, Serial No. 157,859
16 Claims. (Cl. 188—231)



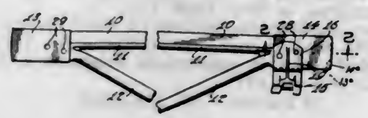
1. A brake beam strut having a lengthwise slot adapted to receive the end of a brake lever for a pivotal movement, such slot being longitudinally on a bias with respect to the longitudinal axis of the strut.

2,170,115
BRAKE HEAD
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application August 7, 1937, Serial No. 157,860
1 Claim. (Cl. 188—236)



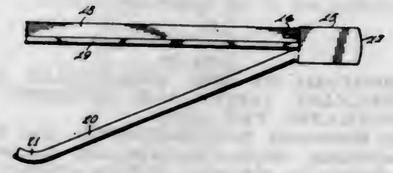
A reversible brake-shoe head, comprising a body having a pair of transverse back flanges forming a jaw for engaging with a brake-beam, and the flanges having means for indicating each end of the beam on which the head is to be mounted, and reinforcements extending from the flanges longitudinally along the back of the head to the ends of the head, the head having a longitudinal key-way extending in front of the reinforcements, in a laterally canted position relatively thereto, and also having a correspondingly canted face for receiving a brake-shoe.

2,170,116
COMBINATION BRAKE BEAM AND HEAD
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Original application April 3, 1937, Serial No. 134,792. Divided and this application August 7, 1937, Serial No. 157,861
22 Claims. (Cl. 188—223)



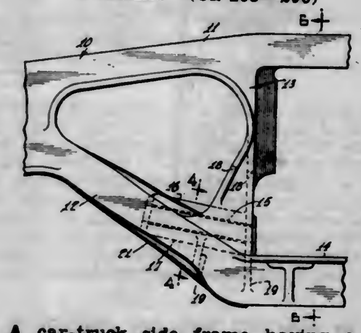
1. The combination of a brake-beam having protecting wear coverings on the top and bottom of its end portions, and brake-heads mounted on the protected end portions and securing the coverings upon the beam.

2,170,117
METHOD OF MAKING BRAKE BEAMS
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Original application April 3, 1937, Serial No. 134,792. Divided and this application August 7, 1937, Serial No. 157,862
2 Claims. (Cl. 29—164)



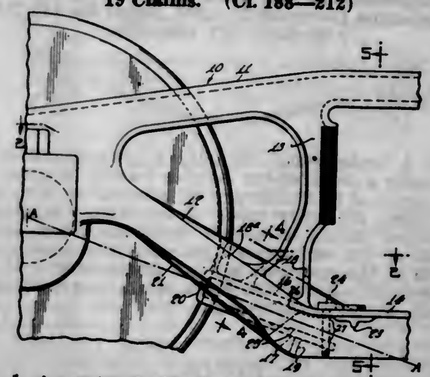
1. The method of making trussed brake beams, including providing a bar of metal of substantially cruciform shape transversely having parallel upper and lower flanges between opposite parallel edge portions, all extending lengthwise of the bar from end to end, compacting the end portions of the bar both end-wise and in a direction at right angles to the plane of said edge portions to eliminate the upper and lower flanges at the end portions, shorten and spread the bar, thereby forming solid, relatively wider, end portions and substantially flat upper and lower surfaces thereon extending substantially parallel with the plane of the edge portions remaining, the thickness of the end portions being maintained for substantially the thickness of one of the edge portions, cutting the bar longitudinally between such flattened end portions in a plane substantially at right angles to said surfaces and along a line close to and substantially parallel with the remainder of said upper and lower flanges to provide a compression member portion and a tension member portion, and spreading the remainder of said one edge portion away from the flanged compression member portion in a plane substantially parallel with the said upper and lower surfaces of the compacted end portions and to shorten the thus formed bar to a greater extent, whereby to form a tension member, substantially as set forth.

2,170,118
CAR TRUCK SIDE FRAME
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Original application March 15, 1937, Serial No. 130,881. Divided and this application August 7, 1937, Serial No. 157,863
4 Claims. (Cl. 105—206)



1. A car-truck side frame having a closed hollow inclined tension member, and a reinforcing vertical web in the inclined portion of the tension member.

2,170,119
CAR TRUCK SIDE FRAME
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application August 7, 1937, Serial No. 157,864
19 Claims. (Cl. 188—212)

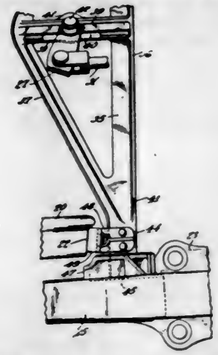


1. A car truck side frame having a spring seat, and including means thereon for supporting and guiding a brake beam upon the side frame, such means extending inwardly towards the center of the side frame along a line which passes beneath the entire spring seat and there terminating to permit the downward removal of the beam.

2,170,120
BRAKE BEAM
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Original application March 15, 1937, Serial No. 130,881. Divided and this application December 31, 1937, Serial No. 182,722
3 Claims. (Cl. 188—222)

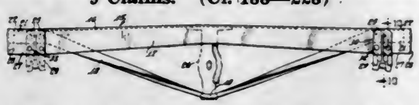
1. A truss brake beam, including a compres-

sion member, a tension member and a strut connecting the two members, all integrally united together to form a unit, the tension member being substantially T-shape in cross section to provide a thicker head portion along the front thereof, the ends of the two members being integrally



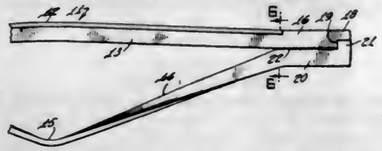
united by relatively wide end portions of the beam, and the upper and lower surfaces of the end portions being flat throughout and substantially parallel, and continued from and in the same planes as the upper and lower surfaces of said head of the tension member.

2,170,121
BRAKE BEAM
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application December 31, 1937, Serial No. 182,723
9 Claims. (Cl. 188—228)



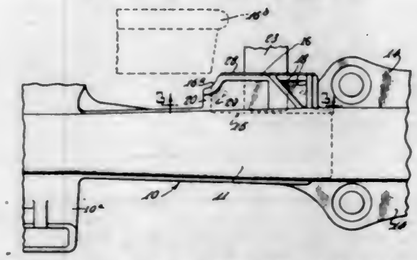
1. A brake beam, including a channel section forming a compression member having its greatest depth at its middle portion, and which, toward its ends, gradually tapers down, and a tension member having its ends firmly attached to the ends of the compression member, the attached ends of the members all extending beyond the points of location for brake heads to guide the beam on car truck frames.

2,170,122
BRAKE BEAM
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Application December 31, 1937, Serial No. 182,724
10 Claims. (Cl. 188—222)



1. A brake beam, including a compression member and a tension member, each formed as a complete section, the corresponding ends of the members permanently united and providing, where united, flat end portions on the beam for receiving brake heads, such flat united end portions extending beyond the points of location of the brake heads to guide the beam on car truck frames.

2,170,123
CAR TRUCK SIDE FRAME
Charles R. Busch, Orange, N. J., assignor to Buffalo Brake Beam Company, New York, N. Y., a corporation of New York
Original applications March 15, 1937, Serial No. 130,881, and August 7, 1937, Serial No. 157,863. Divided and this application February 1, 1939, Serial No. 253,977
25 Claims. (Cl. 188—212)



1. A car-truck side frame having a guide column, a pair of flanges projecting inwardly away from the side frame and integral with and extending across the inner surface of the column and defining a beam guiding recess between them, and supporting brackets integral with and connecting one of the flanges and column.

2,170,124
COMPOUNDS OF THE ANDROSTANE AND PREGNANE SERIES AND METHODS OF PRODUCING THE SAME
Adolf Butenandt, Berlin-Lichterfelde, and Willy Logemann, Berlin-Charlottenburg, Germany, assignors to Schering Aktiengesellschaft, a corporation of Germany
No Drawing. Application December 5, 1936, Serial No 114,334. In Germany December 7, 1935
25 Claims. (Cl. 260—397)

1. Process for the manufacture of derivatives richer in oxygen of unsaturated compounds of the androstane and pregnane series, wherein unsaturated compounds of the androstane and pregnane series, which possess in a position adjacent to the carbon-to-carbon double bond a methylene group, are subjected to the action of oxidizing agents capable of converting such methylene group into a carbonyl group without protection of the double bond.

2,170,125
CONVERTIBLE TOOL
Benjamin Franklin Caldwell, San Dimas, Calif., assignor to Dorothy Ilene Caldwell, San Dimas, Calif.
Application June 8, 1938, Serial No. 212,567
3 Claims. (Cl. 306—6)

1. A device of the class described including a head, a socket integral with the head, said socket having flat sides and being open at opposite ends, the socket being flared toward its open ends, arms extending from the socket at angles to each other, and a handle pivotally mounted within the socket and extending between the arms,

said handle being shiftable into engagement with either arm, and means on the handle for binding



either arm to the handle, thereby to hold the head against movement relative to the handle.

2,170,126
SKIRT BLOCKING DEVICE
Clara M. Cleophas, Beloit, Wis.
Application September 28, 1936, Serial No. 102,911
4 Claims. (Cl. 223—69)
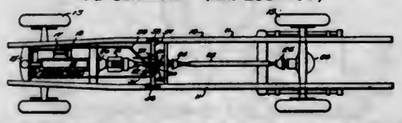


1. A skirt blocking device comprising opposed side and end bars defining a generally quadrilateral flat frame adapted to have a skirt stretched thereon, means for selectively varying the dimensions of the frame to accommodate skirts of different outline dimensions, elongated flexible members positioned on the outer edges of said side bars and adapted to be bowed outwardly in the plane of the frame to conform with the hip fullness of a skirt to be blocked, and means including an adjustable connection between at least one end portion of each of said flexible members and the adjacent side bar for varying the outward bowing of said flexible members.

2,170,127
N-LOWER-DIALKYL-COUMARIN-3-CARBONYLAMIDES AND PROCESS OF PRODUCING THEM
Otto Dalmer and Fritz von Werder, Darmstadt, Germany, assignors to Merck & Co. Inc., Rahway, N. J., a corporation of New Jersey
No Drawing. Application February 26, 1937, Serial No. 127,914. In Germany March 13, 1936
8 Claims. (Cl. 260—344)

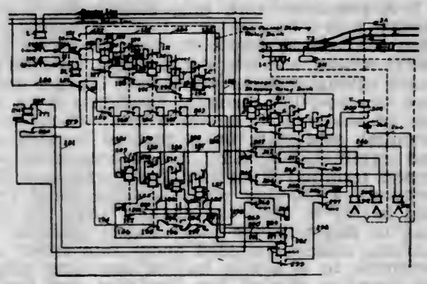
1. An N-lower dialkyl-coumarin-3-carbonylamide.

2,170,128
BRAKE MECHANISM FOR MOTOR VEHICLES
Robert Griffin De La Mater, Parkersburg, W. Va., assignor to The Parkersburg Rig & Reel Company, Parkersburg, W. Va., a corporation of West Virginia
Application May 12, 1936, Serial No. 79,377
34 Claims. (Cl. 188—90)



1. A braking system for a motor vehicle having an engine provided with a cooling fluid circulating system communicating with the atmosphere and providing a fixed path for the circulation of cooling fluid around the engine, a fluid friction brake, fluid connections for said brake including inlet and outlet conduits connected to said circulating system, means forming a part of said brake for circulating fluid therethrough, and means for evacuating fluid from said brake.

2,170,129
CENTRALIZED TRAFFIC CONTROL SYSTEM FOR RAILROADS
Darrol F. De Long, Rochester, N. Y., assignor to General Railway Signal Company, Rochester, N. Y.
Application August 7, 1930, Serial No. 473,529
25 Claims. (Cl. 246—3)

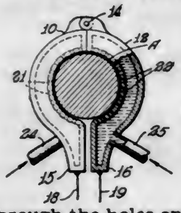


1. In a centralized traffic controlling system for railroads, a control office, a plurality of field stations, a series stepping circuit extending through the several stations, means at the control office for impulsing said stepping circuit at time spaced intervals, step-by-step means in the control office and at each station all operated synchronously by the impulses on said stepping circuit, a message line connecting said control office and each of said stations, a plurality of channel circuits closed by said step-by-step means at said control office and at each of said stations each of which includes said message line, and means at said control office and at each station responsive to impulses placed on each of said channel circuits.

2,170,130
METHOD OF AND APPARATUS FOR HARDENING A METAL ARTICLE
Francis S. Denneen, Cleveland, and William C. Dunn, Shaker Heights, Ohio, assignors to The Ohio Crankshaft Company, Cleveland, Ohio, a corporation of Ohio
Application September 18, 1933, Serial No. 689,904
2 Claims. (Cl. 266—4)

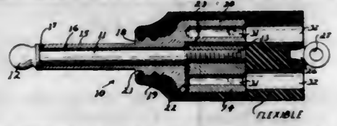
1. In a heating and quenching device a hollow

inductor coil adapted to surround a charge to be heated, holes in said hollow coil on the charge adjacent side and means for projecting a quench-



ing medium through the holes onto a charge with such volume and force that vapor pockets formed between the quenching streams and the charge will be a minimum.

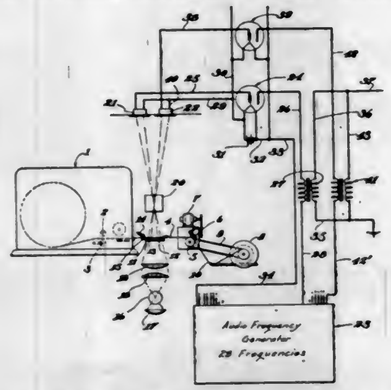
2,170,131
SHIELDED TELEPHONE PLUG
Cornelius W. Doremus, Washington, D. C.
Application July 2, 1938, Serial No. 217,215
4 Claims. (Cl. 173—361)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. A telephone cord plug comprising a stem contact and a barrel contact encompassing said stem contact, an insulating sleeve between said barrel contact and said stem contact, an enlarged trunk extending from said barrel contact and a cord tip-receiving terminal extending from one side of said trunk, a second cord tip-receiving terminal, said stem being secured to said second terminal, insulating means separating said second terminal from said trunk and said first terminal, a shoulder dividing said trunk from said barrel to limit the amount that the plug may be inserted in a jack, and a yieldable insulating material molded about said trunk and terminals in situ and having apertures allowing insertion of cord tips into said cord tip-receiving terminals, said trunk having a plurality of grooves thereabout to anchor the molded insulating material thereon, said molded insulating material comprising semi-soft rubber.

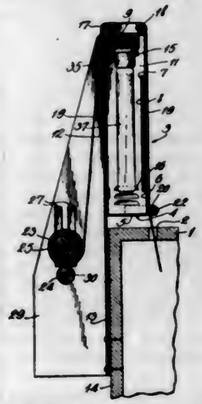
2,170,132
MESSAGE TRANSMITTING SYSTEM
August D. Eitzen, Rockville Centre, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York
Application September 1, 1933, Serial No. 687,811
Renewed October 27, 1937
26 Claims. (Cl. 178—4)

1. The system of transmitting messages consisting of a transmitting station having a record or master composed of a light transmittable tape having light interrupting characters impressed thereon, a pulsating current generator for generating a plurality of pulsating currents corresponding to the location of light rays transmitted through said tape, a light sensitive mechanism operatively associated with said pulsating current generator, a source of light for directing the light rays through the unimpressed portion of said record and onto said light sensitive mechanism in turn to select the pulsating currents corresponding to the light rays being transmitted, and a receiving station having a pulsating current filter means for filtering out a plurality of pulsating currents corresponding to the frequencies of said transmitting station, a mechanical recording device, and means operatively



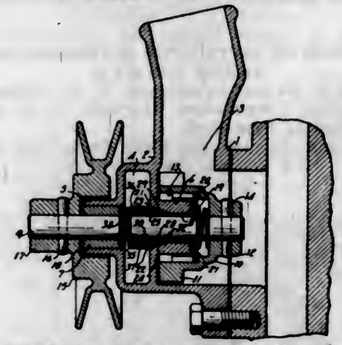
associating said mechanical recording device with said pulsating current filter means electrically to control said mechanical recording device in accordance with the pulsating currents transmitted to record the message transmitted.

2,170,133
BROAD-TAPE ILLUMINATOR
August D. Eitzen, Rockville Centre, N. Y., assignor to News Projection Corporation, New York, N. Y., a corporation of New York
Application May 1, 1937, Serial No. 140,197
Renewed December 1, 1938
6 Claims. (Cl. 40—82)



1. The combination of an illuminator for a broad tape including a casing having a window in a vertically extending wall, a source of light within said casing behind said window, guides for guiding the tape upwardly across said window and then over the top of said casing, a weighted rewind reel for receiving the tape, vertically extending guideways for said reel behind said casing and at the lower end thereof, and a surface driving roller below said reel and in driving engagement with the tape on said reel, said guideways being open at the top to facilitate removal of said reel to wind up the tape on said reel.

2,170,134
BEARING SEAL
Zeno E. Flick, Jackson, Mich.
Application October 26, 1936, Serial No. 107,521
3 Claims. (Cl. 286—30)



1. In a bearing seal a pair of sealing rings each including a metallic shell having an annular base wall, a conical shaped peripheral wall integrally connected with the outer periphery of the annular base wall and a cylindrical wall integrally connecting the base and peripheral walls to form a closed annular chamber, and a lubricant impregnated material contained in said chamber, said rings being arranged with the base walls in abutting contact.

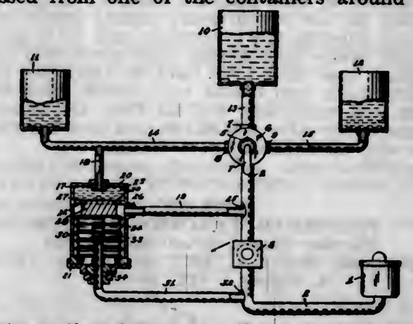
2,170,135
RELAY
Laurance E. Gardiner, Stratford, N. J.
Application February 18, 1938, Serial No. 191,137
18 Claims. (Cl. 200—111)



1. A relay having a winding, a movable armature, and a resilient mounting for said armature, said resilient mounting having a portion for continuously urging said armature in a predetermined direction and another portion for urging said armature in the same predetermined direction during a part only of the movement of said armature.

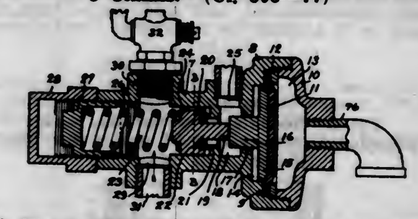
2,170,136
RESERVE FUEL CONTROL SYSTEM
Edward M. Gavin, Dayton, Ohio
Application February 15, 1939, Serial No. 256,465
5 Claims. (Cl. 158—46.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a fuel supply system for aircraft and the like having a plurality of fuel containers, a main fuel supply conduit, branch conduits connecting the main conduit to the several containers, manually operated means controlling the fuel from the containers and automatic means bypassed from one of the containers around the



first mentioned means to the main fuel supply conduit and adapted to be operated in response to the exhaustion of fuel of any other container for supplying the fuel from the container bypassed around the manually operated means to the main conduit, said automatic means including a fluid pressure operated device.

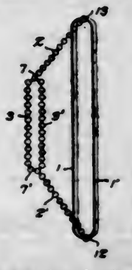
2,170,137
TRAIN CONTROL MECHANISM
Clayton B. George, Seattle, Wash., assignor to George Automatic Train Control Company, Seattle, Wash., a corporation of Washington
Application December 7, 1936, Serial No. 114,667
5 Claims. (Cl. 303—77)



4. The combination with an air brake mechanism, embodying a brake cylinder, an auxiliary reservoir, a triple valve operatively connected with said brake cylinder and with said auxiliary reservoir controlling the inlet of air to and the outlet of air from said brake cylinder and said auxiliary reservoir, said triple valve having an exhaust passageway, an air pressure supply brake pipe means connected with said triple valve; of a train control valve housing member; an inlet port in said housing member communicating with said triple valve exhaust; a discharge port in said housing member; a sleeve member in said housing member operatively positioned between said inlet port and said discharge port, a piston like longitudinally sliding and relatively short guide in said sleeve member; a valve face positioned on the sliding guide and lying in a plane at right angles to the longitudinal movement of said sliding guide; a valve seat operatively positioned as respects said valve face; an adjustable spring member operatively positioned to bear directly against said guide and urge said valve face into valve seating position relative to said valve seat; a relatively short member engageable with said guide and movable in a longitudinal plane to unseat said valve face relative to said valve seat, said member provided with an enlarged head

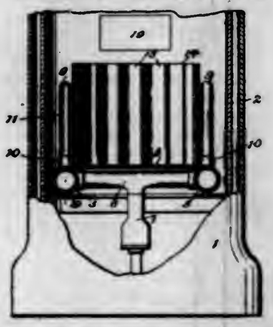
member at an end opposite to that engaging the said guide; a flexible diaphragm forming one wall of a chamber in said train control valve housing, said diaphragm being operatively positioned adjacent to said enlarged head member; and an inlet port in said chamber adapted to be connected to the air pressure supply brake pipe means, whereby the pressure in said air pressure supply brake pipe means may move said diaphragm and said head and in turn the said sliding guide and unseat said sliding guide face from said valve seat and air from the exhaust of the triple valve will be released past the valve face and valve seat.

2,170,138
FOOTWEAR TRACTION DEVICE
Marlow Glenn, Silver Spring, Md.
Application March 5, 1937, Serial No. 129,240
6 Claims. (Cl. 36—62)



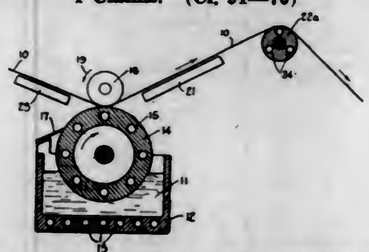
1. A traction device for footwear comprising a continuously formed frictional loop, a continuously and independently formed elastic loop, said loops interconnected, and said elastic loop disposed to fit around the counter of the footwear.

2,170,139
GAS BURNER
Uel R. Goodale, New Suffold, N. Y.
Application February 8, 1937, Serial No. 124,737
2 Claims. (Cl. 126—350)



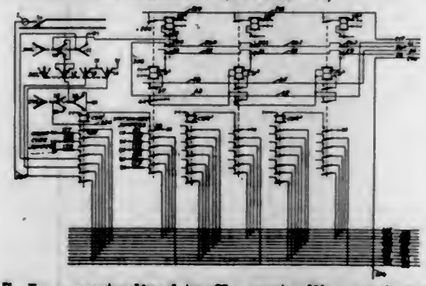
1. A water heater comprising an annular water chamber, a gas burner within and concentric with the chamber, said burner including an annular supply pipe within and at the lower end of the chamber, a series of burner tubes rising from and in open communication with the supply pipe, each of the tubes being formed substantially throughout its length with a flame outlet slot of gradually decreased opening toward the upper end, the burner tubes being arranged with the flame outlet slots toward the water chamber, and a reflector supported on the supply pipe inwardly of the burner tubes and extending above the upper ends of said tubes, the reflector having a vertical dimension exceeding that of the burner tubes and extending above the latter, the space within the reflector being closed at the lower end.

2,170,140
PROCESS OF APPLYING MATERIAL TO A SHEET OR WEB
William F. Grupe, Lyndhurst, N. J., assignor to Chambon Corporation, Garfield, N. J., a corporation of New York
Application August 19, 1936, Serial No. 96,836
4 Claims. (Cl. 91—70)



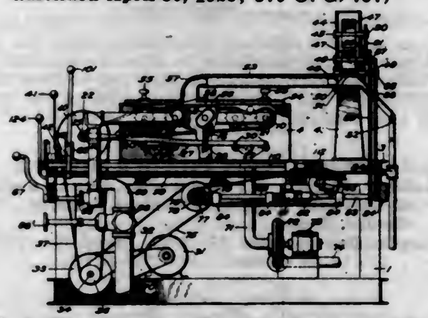
4. A method of treating a traveling web with a marking or coating material which is liquid when heated and solid when cooled, comprising heating at least one surface of the web; passing said heated web between an intaglio cylinder and a cooperating impression cylinder, said intaglio cylinder being immersed in a heated bath of the material and heated uniformly, whereby said material will be applied to the web in predetermined quantities; and subsequently cooling the applied material.

2,170,141
CENTRALIZED TRAFFIC CONTROLLING SYSTEM FOR RAILROADS
William D. Halles and Darrol F. De Long, Rochester, N. Y., assignors to General Railway Signal Company, Rochester, N. Y.
Application March 31, 1931, Serial No. 526,674
53 Claims. (Cl. 246—5)



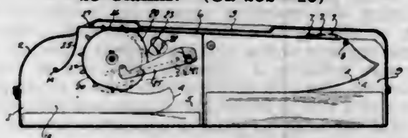
7. In a centralized traffic controlling system for railroads, step-by-step means at the control office and at each field station operated synchronously, a control circuit connecting the control office and each of the several field stations, a message circuit connecting the control office and each of the several field stations, means governed by the message circuit for registering the stations one at a time at the control office in accordance with the code call allotted to the several field stations, means at each field station for pulsing the message circuit in accordance with the code call allotted to it, and suppressing means to prevent effective operation of said pulsing means, said suppressing means being manually controlled from said control office over said control circuit.

2,170,142
FILTER IMPREGNATING MACHINE
Frank B. Hale, Bel Air, Md., and Frank A. Logan, Sarasota, Fla.
Application June 28, 1932, Serial No. 619,730
50 Claims. (Cl. 91—18)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



50. A filter impregnating machine comprising an impregnating box having a plurality of separate compartments, means for supporting filters for undergoing impregnation in each compartment, and selective means for introducing finely divided impregnating material into any one compartment.

2,170,143
AUTOGRAPHIC REGISTER
Clarence L. Johnston, Oakland, Calif.
Application February 10, 1938, Serial No. 189,833
28 Claims. (Cl. 282—16)



1. In a strip feeding and folding apparatus a rotary pin wheel engageable in longitudinally spaced holes in a strip for advancing the strip a measured distance at each rotation and eccentric discs mounted contiguous thereto for to and fro motion about an axis common with the pin wheels and interconnecting means constructed and arranged to swing the discs from an intermediate position to an extreme position in one direction and return them to normal during one rotation of the pin wheels and to swing the same discs from an intermediate position to an extreme position in the opposite direction and return them to normal during the succeeding rotation of the pin wheels to progressively disengage the strip of material from the pin wheels at different points in its range of travel.

2,170,144
SLIDE RULE
Lyman M. Kells, Willis F. Kern, and James R. Bland, Annapolis, Md., assignors to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application April 17, 1937, Serial No. 137,400
21 Claims. (Cl. 235—70)

1. In a slide rule having two relatively fixed bars and a sliding bar, a parallel standard logarithmic scale along one edge of a bar on one face thereof, a sine and a tangent scale on the same face of the slide, identical parallel standard logarithmic scales along coacting edges of a bar and the slide on the other face thereof, all of said scales being to the same unit length whereby



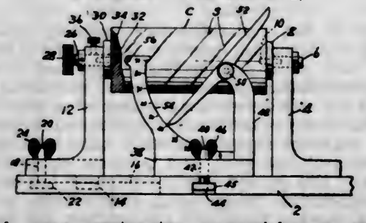
proportions involving trigonometric functions are performed by combined operations in progressive manipulations.

2,170,145
HEAT EXCHANGER
Lambert Koolstra, Barberton, Ohio, assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application December 20, 1935, Serial No. 55,378
14 Claims. (Cl. 158—1.5)



1. Apparatus for heating air for the combustion of fuel in suspension, a burner receiving said air circumferentially of its axis, and means forming interspersed paths for the flow of air and heating gases through said apparatus and including curved plates for guiding the air in streams distributed circumferentially of the burner axis.

2,170,146
CORE PROTRACTOR
Gottdank L. Kothny, Strafford, Pa., assignor to Sperry-Sun Well Surveying Company, Philadelphia, Pa., a corporation of Delaware
Application May 28, 1937, Serial No. 145,232
5 Claims. (Cl. 33—174)

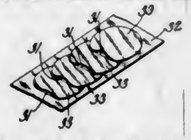


1. A core protractor comprising a support, means for engaging the ends of a cylindrical core to mount it on said support for rotation about its axis, a sighting member mounted on said support to pivot substantially in a plane tangent to the cylindrical surface of the core, said sighting member being provided with a straight edge located laterally of the pivotal mounting and having a length greater than the diameter of the core, and means for indicating the angle of slope of the sighting member relative to a plane perpendicular to the axis of the core.

2,170,147
PACKAGE OF GUMMED BANDS OR STICKERS
John D. Lane, Boston, Mass.
Application January 21, 1937, Serial No. 121,392
6 Claims. (Cl. 206—56)

1. In a package comprising a plurality of pa-

per stickers each of which presents a face only partially coated with a permanently sticky gum and another face coated with a medium having low adhesive affinity for said gum, a carrier for said stickers also coated with said medium and



against which said gum faces are temporarily and weakly stuck, said stickers being arranged in overlapping relationship so that a gummed area of one sticker is temporarily and weakly stuck to an opposite face of an adjacent sticker.

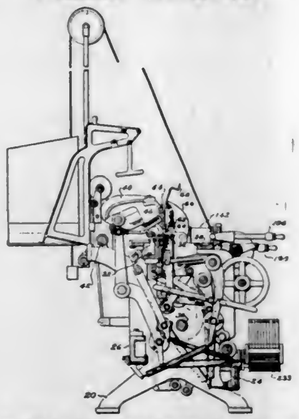
2,170,148

FLAT FULL-FASHIONED KNITTING MACHINE

Karl Richard Lieberknecht, Oberlungwitz, Germany, assignor to Kalio, Inc., New York, N. Y., a corporation of New York

Application May 5, 1937, Serial No. 140,849

7 Claims. (Cl. 66—96)



1. In a flat full-fashioned knitting machine having a narrowing machine frame and a plurality of lace point carrier bars supported thereby, the combination of two control elements supported for movement lengthwise on a stationary portion of the machine frame, operating connections between certain of said bars and one of said control elements, and between other of said bars and the second control element for imparting lengthwise positioning movements to said bars, a motion reversing mechanism for moving said control elements one from the other in opposite directions, a single positioning member connected to impart positioning movements to one of said control elements, and a lace pattern mechanism for imparting successive positioning movements to said member.

2,170,149
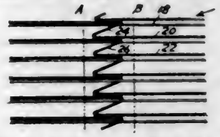
HOSIERY AND METHOD OF MAKING THE SAME

Elmer C. Lochhead, Moberly, Mo., assignor of one-half to Charles R. Henderson, Moberly, Mo.

Application January 15, 1935, Serial No. 1,890

13 Claims. (Cl. 66—178)

11. A translucent knitted stocking of a weight in which horizontal bands can ordinarily be observed, the leg portion of said stocking comprising three natural silk yarns, two only of said yarns being knitted into each wale throughout the major portion of every course in said leg por-



tion, any two adjacent courses including one yarn which is knit into both courses throughout, the remaining yarn of one of said two courses being different from the remaining yarn of the other of said two courses.

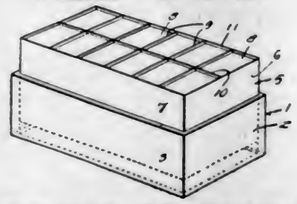
2,170,150

PRESCRIPTION POWDER DIVIDER

Louis F. Martin, Jr., Winchester, Tenn., assignor of one-half to Lawrence Hart Sprague, Winchester, Tenn.

Application October 16, 1937, Serial No. 169,454

2 Claims. (Cl. 73—62)



1. A powder divider of the character described, comprising a powder receiver in the form of a box having an open top and an open bottom, the inner wall surfaces of the box being perpendicular to the planes of the open top and bottom, and pressing and marking means for powder in the box, consisting of a block body having a smooth plane surface and a surface having marking ribs thereon defining a plurality of areas of corresponding size and configuration, said block body being of a size to fit snugly in said box with either of said surfaces directed downwardly toward the open bottom thereof.

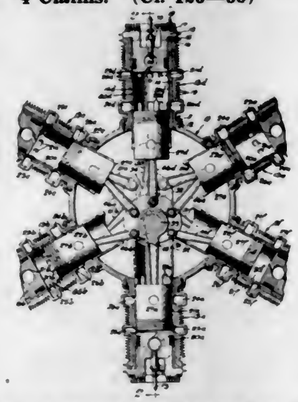
2,170,151

INTERNAL COMBUSTION ENGINE

John J. McCarthy, Malden, Mass.

Application November 13, 1937, Serial No. 174,412

4 Claims. (Cl. 123—55)



1. In an internal combustion engine, the combination of a cylinder; a slidable valve for controlling the intake and exhaust; a piston in said cylinder; and a crankshaft consisting of two parts, one terminating in an eccentrically disposed crank and the other having a crank and terminating in a cheek disposed coaxially of the crank shaft, said cheek being angularly adjustably secured to the first mentioned crank, one of said cranks being drivingly connected with said piston, and the other with said valve.

2,170,152

STABLE BITUMINOUS EMULSION AND PROCESS OF PREPARING THE SAME

Claude L. McKesson, San Francisco, Calif., assignor to American Bitumuls Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application June 2, 1936, Serial No. 83,059

8 Claims. (Cl. 134—1)

1. An alkaline bituminous emulsion comprising bitumen dispersed in an aqueous alkaline solution, a primary emulsifying agent formed at the interface of the dispersed bitumen and the alkaline solution by the reaction of the alkali in said solution with acidic constituents naturally occurring is bituminous materials, a stabilizer formed by the addition of "calcium casein" to said alkaline aqueous solution, said emulsion being neutralized with the acidic decomposition products of milk sugars and containing the reaction products of the alkali in said solution with said acidic decomposition products, said stabilized emulsion having a pH of from 7.5 to 9.5.

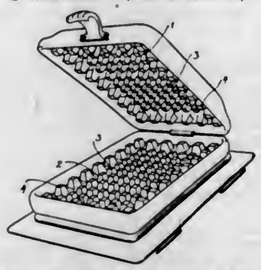
2,170,153

WAFFLE IRON

Joseph T. Misiak and Wesley D. Mitchell, Chicago, Ill.

Application November 5, 1937, Serial No. 172,933

8 Claims. (Cl. 219—19)



1. A waffle-iron having separable mold-plates with spaced inwardly-extended projections, the more marginal ones of said projections of one of said plates being longer and larger than its more central projections, whereby the latter provide a space for a waffle filling-material, and an electric-heater associated with each of said mold-plates to heat the same, said heater of said one plate being arranged to provide its projections forming said filling material space with more heat and at a higher temperature per unit of adjacent food mass than it provides to the remainder of its said projections, whereby all portions of the waffle may be properly cooked in the same time period.

2,170,154

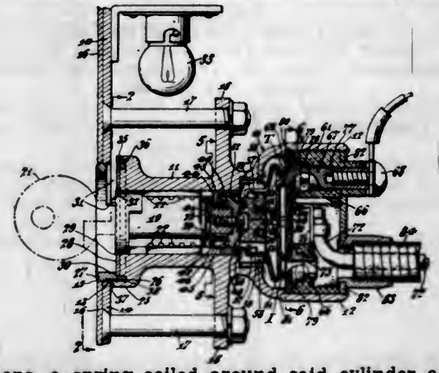
CIRCUIT CONTROL DEVICE

Clarence W. Moore, Roslyn, Pa., assignor, by mesne assignments, to United Specialties Company, Detroit, Mich., a corporation of Delaware

Application May 28, 1934, Serial No. 727,976

12 Claims. (Cl. 200—44)

1. In a combined switch and lock structure, a housing, a rotary lock cylinder mounted therein, a rotary contactor member mounted therein for movement into a plurality of circuit controlling positions, means interengaging said cylinder and said member to transmit rotary motion from said cylinder to said member, manually operated means for actuating said cylinder to move said member into its various circuit controlling posi-



tions, a spring coiled around said cylinder and having one end connected thereto for movement therewith and the opposite end connected thereto for limited relative movement with respect thereto and a stop on said housing for engagement with the latter end of said spring to tension said spring and thereby return said member to one of said positions when moved thereabeyond by said manually operated means.

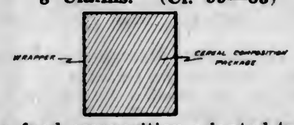
2,170,155

FOOD PRODUCT

Albert Musher, New York, N. Y., assignor to Musher Corporation, Elizabeth, N. J., a corporation of New Jersey

Application October 4, 1937, Serial No. 167,297

8 Claims. (Cl. 99—83)



3. As a food composition adapted to be cooked to form a cooked cereal product directly available for edible purposes: a breakfast cereal the particles of which are bonded together by an edible solid fat.

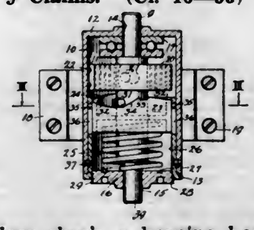
2,170,156

DOOR CHECK

Andrew C. Popivalo, Sanger, Calif.

Application July 26, 1938, Serial No. 221,320

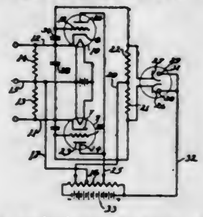
9 Claims. (Cl. 16—53)



1. In a door check, a housing having means for securing the same to a support, a shaft journaled in the housing, means operated by a door

for turning the shaft in response to opening and closing movements of the door, and means operable on the shaft to oppose turning of the latter during opening of the door and coacting with the shaft to first aid and then oppose closing movement of the door.

2,170,157
ELECTRONIC SWITCH DEVICE
George Emerson Pray, Washington, D. C.
Application March 30, 1939, Serial No. 265,017
9 Claims. (Cl. 250—41.5)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



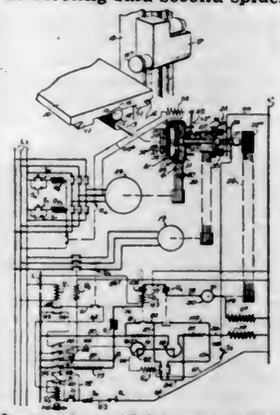
7. Electronic switch apparatus, comprising two gas triodes each having an anode, a hot cathode and a grid and normally biased to pass no current; resistive means and capacitive means connected in parallel between said cathodes to develop a potential difference when either of said tubes is passing current and to stop the flow of current through one said tube when the other is ignited; two sets of photoelectric means for producing electric current, means connected to each set to derive a positive potential from the current therefrom, and means to apply each such positive potential to a respective triode grid to ignite such triode, and current supply means operatively connected to all said tubes.

2,170,158
METHOD OF DECARBONIZING A CARBON HOLDING METAL, FOR INSTANCE PIG IRON
Ivar Rennerfelt, Djursholm, Sweden
No Drawing. Application October 28, 1936, Serial No. 108,012. In Sweden November 4, 1935
12 Claims. (Cl. 75—28)

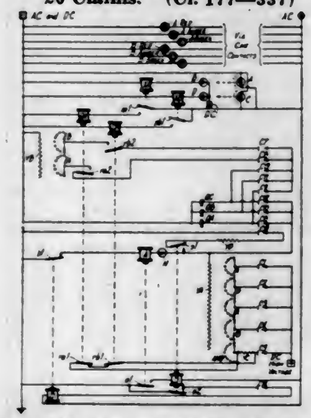
1. A method of producing low carbon iron grains, consisting in heating a charge of small iron granules, obtained by rapidly cooling molten iron in a cooling fluid, while stirring the charge by revolution in a combustion zone the atmosphere of which, containing CO_2- and CO-gas, is suitably composed for oxidizing substantially only the carbon but not the iron of the granules, the heating being sufficient for decarbonizing the granules but insufficient for causing them to melt.

2,170,159
DRIVE MECHANISM
William F. Ridgway, Rockford, Ill., assignor to The Ingersoll Milling Machine Company, Rockford, Ill., a corporation of Illinois
Application August 27, 1937, Serial No. 161,196
19 Claims. (Cl. 90—21)

1. The combination of a machine element mounted for movement in opposite directions, differential gearing including two separate sun gears meshing with two separate intermediate planet gears, a common ring gear meshing with both of said planet gears, first and second rotatably mounted spiders supporting said planet gears for bodily movement about the axes of the respective sun gears, a driving connection between said first spider and said machine element, means for connecting one of said sun gears to a unidirectional constant speed driving member, means for connecting the other of said sun gears to a variable speed driving member, means for connecting said second spider to a relatively high-speed rapid-traverse driving member, means operable at will to hold said second spider against rotation to thereby establish a constant speed-ratio driving connection between said second sun gear and said ring gear, and means operable at will for preventing relative rotation between said sun gears to maintain said machine element stationary.

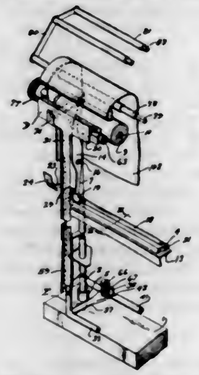


2,170,160
TRAFFIC CONTROL SYSTEM
Alfred Percy Bailey Renshaw, Kingston Hill, England, assignor, by mesne assignments, to Automatic Telephone & Electric Company Limited, London, England
Application January 31, 1936, Serial No. 61,699
In Great Britain February 12, 1935
20 Claims. (Cl. 177—337)



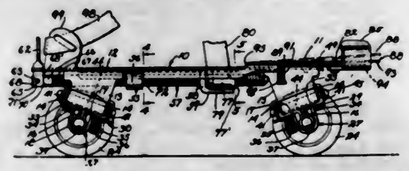
1. In a traffic control system for an intersection of traffic lanes, the combination of signals adapted to accord and interrupt right-of-way to said lanes, timing means for causing the signals to accord right-of-way to each of the intersecting lanes in succession in a time cycle, means for directing and receiving an energy beam across the intersection so as to be interrupted by a substantial part of traffic in all lanes while crossing the intersection, means connected with said timing means and acting responsive to interruption of said energy beam by traffic to lengthen said time cycle in accordance with the amount of such interruption.

2,170,161
COLLAPSIBLE COPY HOLDER
Stephen Sattler, Tulsa, Okla.
Application October 2, 1937, Serial No. 166,961
7 Claims. (Cl. 120—32)



1. A copy holder for typewriters including a lower frame member and an upper frame member arranged for relative vertical movement, said upper frame member carrying a platen, a line guide device supported adjacent said platen and carrying a roller in contact with said platen, means for supporting said line guide device, said line guide device and said supporting means being relatively vertically movable, means for latching the upper frame member in extended position, means for latching the line guide device in extended position, and a single member for unlatching both of said latching means.

2,170,162
ROLLER SKATE
Samuel Segal, Brooklyn, N. Y.
Original application September 14, 1935, Serial No. 40,579. Divided and this application July 23, 1936, Serial No. 92,203
14 Claims. (Cl. 280—11.26)

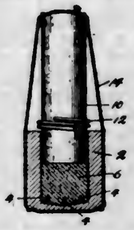


1. In a skate, front and rear slidably guided sections for supporting a shoe, a rotatable bolt extending longitudinally of said sections and carried thereby, a manipulator swingably secured to the rear end of said bolt, spring actuated means for holding said manipulator in alinement with said bolt for rotating the latter and adjustably displace said sections relatively to each other, said spring actuated means adapted to hold said manipulator out of alinement with said bolt, and means for removably receiving said manipulator to prevent transverse displacement thereof.

2,170,163
WATERPROOF PAINT
Claude V. Smith, Emporia, Kans.
No Drawing. Application July 22, 1937, Serial No. 155,093
2 Claims. (Cl. 134—46)

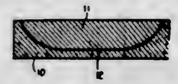
2. A waterproofing material for use as a paint and as a hardening agent capable of withstanding pressure of water when dry, the material consisting of calcium chloride three parts, lye one part, Portland cement seven and one-half pounds, and water.

2,170,164
ART OF SETTING DIAMONDS AND MAKING DIAMOND TOOLS
James M. Stone, Detroit, Mich., and Rutherford H. Taylor, Millburn, N. J., assignors to J. K. Smit Sons, Inc., New York, N. Y., a corporation of New York
Application February 17, 1938, Serial No. 190,956
6 Claims. (Cl. 76—101)



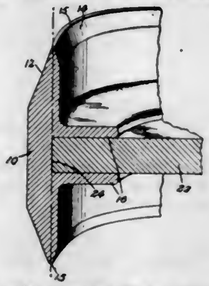
1. The method of setting commercial diamonds and the like, which method comprises coating a diamond with a metal powder, embedding the coated diamond in a mass of metal powders comprising a high melting point metal and a relatively low melting point metal, the coating-metal powder exhibiting the property of resisting etching, discoloring or pitting of the surface of the diamond when the mass of metal powders is heated to the melting temperature of the said relatively low melting point metal, forming the mass in which the diamond has been positioned into a shaped body by cold-pressing, and finally subjecting the shaped body to a temperature above the melting point of the said low-melting point metal but below the temperature at which the desirable qualities of the diamond are impaired.

2,170,165
COMPOSITE BUILDING UNIT
William E. S. Strong, New York, N. Y., assignor to John B. Pierce Foundation, New York, N. Y., a corporation of New York
Application October 24, 1935, Serial No. 46,454
9 Claims. (Cl. 72—36)



1. A building unit comprising a concrete block having a substantially retangular configuration with two major faces spaced apart oppositely by the thickness of the block, and a recess opening over the greater portion of one of the said major faces and tapering inward toward the opposite major face throughout the greater portion of the thickness of the block; loose insulating material filling the said recess in the block, and a plate disposed over the said recess and secured to the block.

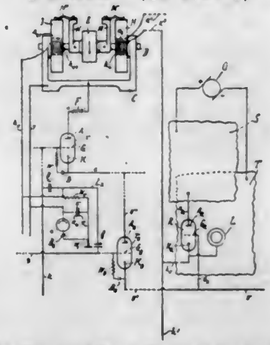
2,170,166
METHOD OF MAKING CUTTING DIES AND BLADE STOCK THEREFOR
George A. Sweet, Milford, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 20, 1936, Serial No. 111,889
4 Claims. (Cl. 76—107)



1. Cutting die blade stock comprising a strip of metal having a body portion terminating in oppositely disposed cutting edge portions, said body portion having a recess therein extending longitudinally thereof, the stock being of a cross section so shaped that the cutting edge portions are in alinement with the inner wall of the recess and the center of gravity of the section.

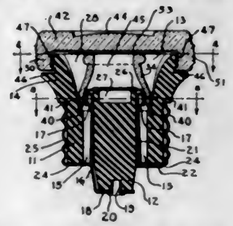
3. A method of producing dies which consists in providing a core of sheet material the periphery of which corresponds to that of a blank to be cut, providing a strip of blade stock having a body portion terminating in oppositely disposed cutting edges and having a recess therein the inner wall of which is in alinement with the cutting edges and the center of gravity of the section, progressively bending said inner wall into engagement with the periphery of the core about successive axes all of which pass through the cutting edges, the inner wall of the recess and the center of gravity, and securing the strip to the core.

2,170,167
ELECTRIC OUTDOOR DISPLAY SYSTEM
John P. Tarbox, Philadelphia, Pa., and Ludwig Schiff, Berlin-Lichterfelde, Germany
Application July 10, 1937, Serial No. 153,068
In Germany July 11, 1936
5 Claims. (Cl. 178—6)



1. An electric outdoor display system comprising a bank of lamps arranged in coordinate vertical and horizontal rows, each horizontal row containing one lamp in each vertical row and each vertical row containing one lamp in each horizontal row, electrically responsive control elements one for each lamp arranged in coordinate vertical and horizontal rows corresponding to the rows in the lamp bank, a bank of photo-electric cells one for each control element arranged in coordinate vertical and horizontal rows corresponding to the rows in the lamp bank, a condenser for each photo-electric cell arranged to be charged thereby, a plurality of horizontal group conductors one for each group of condensers belonging to a horizontal row of photo-electric cells, a group relay device for each horizontal row of cells having its control circuit operatively connected with the group conductor of that row for control of said relay over said conductor, an individual conductor for each relay operatively connecting one output terminal of its relay with one terminal of each of all the control elements in a horizontal row corresponding to the horizontal row of cells associated with said relay, a common return conductor for each vertical row of control elements, a commutator switch arranged to connect the other output terminals of all the relays at one time to each of said return conductors one at a time in sequence, and means for simultaneously discharging all the condensers of a vertical row each into its respective group conductor one row at a time in sequence and in synchronism with the sequential connection of the said other output terminals to the return conductors of corresponding vertical rows of control elements.

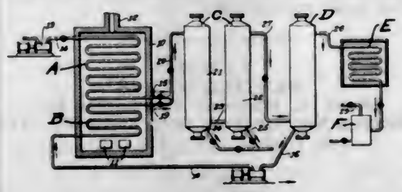
2,170,168
REPLACEABLE FUSE PLUG
Ora G. Vanderveer, Kansas City, Mo.
Application August 28, 1937, Serial No. 161,427
10 Claims. (Cl. 200—130)



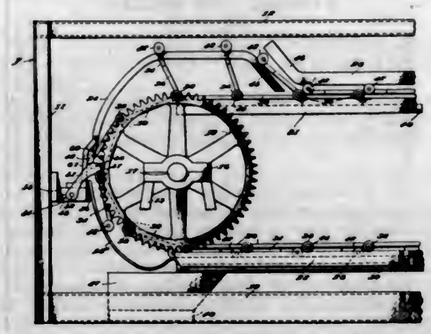
1. In a fuse plug, an insulating body portion, a cap portion, means for detachably connecting said portions, contacts mounted in said body portion, a straight, strip-like, ductile, fusible element, and a removable die member mounted between said cap and body portions for bending said strip-like element out of normal shape into contact engaging position and holding said element in such position.

2,170,169
TREATING HYDROCARBON OIL
Claude W. Watson, Yonkers, N. Y., assignor to The Texas Company, New York, N. Y., a corporation of Delaware
Application June 10, 1937, Serial No. 147,437
2 Claims. (Cl. 196—58)

1. In the conversion of higher boiling hydrocarbon oils into lower boiling ones, the process that comprises introducing a stream of oil comprising liquid and vaporous constituents at cracking temperature into the upper part of an enlarged cracking chamber, maintained at a cracking temperature under superatmospheric pressure, wherein liquid is prevented from accumulating, passing a condensate stock through a heating coil wherein the condensate is heated to a cracking temperature and utilizing the resultant heated products to constitute at least a portion of said stream of oil introduced into the upper part of said enlarged cracking chamber so that conversion of the hydrocarbons occurs by means of the heat supplied by said heated products, causing vapors and non-vaporized oil to flow downwardly in an unobstructed path through said cracking chamber, removing resultant products comprising vaporous and liquid constituents from the lower part of said cracking chamber and introducing them into the lower part of a subsequent cracking chamber wherein conversion is continued and wherein vaporous products rise in an unobstructed path, maintaining said subsequent cracking chamber at a cracking temperature under superatmospheric pressure, removing liquid residue from the lower part of said subsequent cracking chamber at a rate adequate to prevent the accumulation of liquid therein, removing separated vapors from the upper part of said secondary cracking chamber and passing said vapors to a fractionating zone wherein they are fractionated to separate out a condensate and subjecting said condensate to cracking.

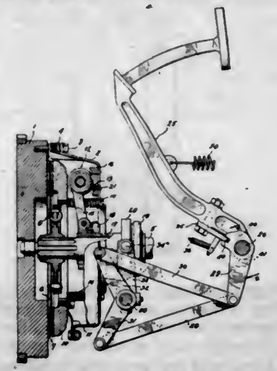


2,170,170
TOASTING MACHINE
Bert Weil, New York, N. Y., assignor to Melba Machinery Royalty Corporation, New York, N. Y.
Application May 10, 1938, Serial No. 207,119
7 Claims. (Cl. 53—5)



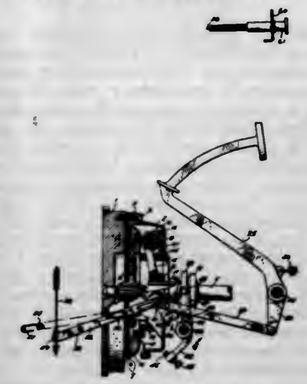
1. A bread toasting machine comprising spaced pairs of sprocket wheels, upper and lower tracks intermediate the pairs of sprocket wheels, a series of pivotally connected toasting plates in the form of an endless conveyor, rollers carried by the conveyor at the pivotal connections of the plates for engaging the tracks, lateral extensions from the rollers for operating engagement with the sprocket wheels, means for driving the sprocket wheels, and a second series of plates cooperating with the first series and pivotally connected at corresponding ends thereto.

2,170,171
CLUTCH CONTROL APPARATUS
Ernest E. Wemp, Detroit, Mich.
Original application January 26, 1938, Serial No. 186,936. Divided and this application March 3, 1938, Serial No. 193,719
11 Claims. (Cl. 192—99)



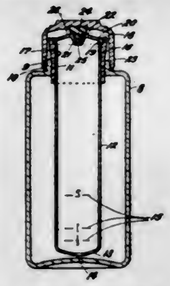
1. In combination with a clutch requiring controlling forces to be delivered thereto in substantially opposite directions, a movable control member, a shiftable member operably associated with the clutch, means connecting the control member and shiftable member for transmitting movements to the shiftable member, and means operable at will for conditioning the connecting means for shifting the shiftable member in one direction or the substantially opposite direction upon control movement of the control member in one direction.

2,170,172
CLUTCH CONTROL
Ernest E. Wemp, Detroit, Mich.
Application March 3, 1938, Serial No. 193,720
10 Claims. (Cl. 192—99)



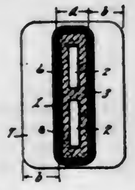
1. In combination with a clutch requiring control movements to be delivered thereto in substantially opposite directions, a movable control member, a shiftable member operably associated with the clutch, and means connecting the control member and shiftable member including throw over center linkage adjustable at will independently of movement of the control member for shifting the shiftable member at will in substantially opposite directions upon movement of the control member in one direction depending upon the position of the linkage.

2,170,173
NONPOURING SELF-MEASURING DISPENSING CONTAINER
John E. Wheatley, Norwood, Ohio
Application July 30, 1936, Serial No. 93,443
5 Claims. (Cl. 221—147)



1. A non-pouring, measuring container unit comprising a bottle, a graduated bulbless pipette tube extending into the bottle to substantially the bottom thereof and a cover means removably holding the tube in position and securely stoppering the bottle and the top of the tube.

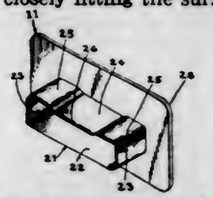
2,170,174
ELECTRIC RESISTANCE HEATING ELEMENT
Edwin L. Wiegand, Pittsburgh, Pa.
Application August 26, 1935, Serial No. 37,986
4 Claims. (Cl. 219—38)



2. Heating means, for heating apparatus wherein a fluid is moved relative to said heating means, comprising: heat-producing means, having transversely extending heat-transfer surfaces, of a width not materially exceeding a predetermined transverse dimension of said heat-producing means, providing opposite surfaces of said heat-producing means relatively free of projecting parts, whereby a plurality of said heating means may be positioned to form part of the heating apparatus with respect to the line of fluid flow of the heating apparatus, and in a manner so that said opposite surfaces form the leading and trailing edges of said heating means and said heat-transfer surfaces are generally in the line of flow of the fluid, the leading edge of one heating means being capable of being positioned closely adjacent the trailing edge of another heating means.

2,170,175
HEATING MEANS
Albert P. Wiegand, Pittsburgh, Pa., assignor, by mesne assignments, to Edwin L. Wiegand, Pittsburgh, Pa.
Application November 12, 1937, Serial No. 174,218
4 Claims. (Cl. 219—38)

1. Heating means, comprising: a heating member, having a recess in its exterior surface; and a heat-transfer means, comprising a continuous flange extending about said heating member, having a portion closely fitting the surfaces defining



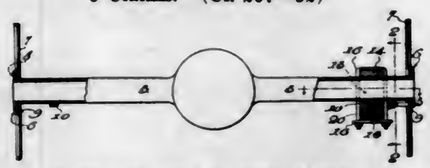
said recess, and comprising also a laterally extending heat-transfer fin.

2,170,176
HEATING MEANS
Edwin L. Wiegand, Pittsburgh, Pa.
Application November 12, 1937, Serial No. 174,219
15 Claims. (Cl. 219—38)



1. Heating means, comprising: heat-producing means; a plurality of metallic strips, each having heat-transfer fins, and each being formed with fingers at opposite marginal edges, the fingers of one strip being adapted to interlock with the fingers of an adjacent strip, so that said strips form a sheath closely receiving said heat-producing means, said fingers being so constructed and arranged, that when interlocked, said fingers form a substantially unbroken connection between said strips.

2,170,177
ANTIRATTLE SPRING SADDLE BRACE
Edward David Wilkerson, Orange, N. J.
Application June 19, 1937, Serial No. 149,251
9 Claims. (Cl. 267—52)

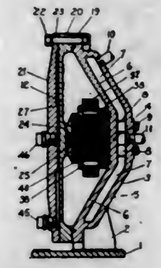


1. In a vehicle running gear wherein is provided an axle housing, a spring saddle embracing the housing with a moving fit, a fixed abutment bearing a definite spaced relation to said saddle, and means engageable by the saddle to prevent lateral freedom of the saddle, a brace interposed between the abutment and the saddle and means for extending the brace to force the saddle against said lateral freedom preventing means.

2,170,178
VIBRATORY APPARATUS
Robert Longfellow Williams, Newton, Mass., assignor to Submarine Signal Company, Boston, Mass., a corporation of Maine
Application February 25, 1937, Serial No. 127,737
9 Claims. (Cl. 99—234)

1. Apparatus for subjecting a liquid to vibrations consisting of two vibratory members forming a chamber between which said liquid passes.

means for vibrating one of said members electrically, the other member being driven through the mechanical coupling of the liquid in the chamber,



the independent resonant frequencies of each element being within the low sonic range and substantially not further apart than one octave.

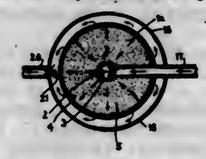
2,170,179
PICK OR PLECTRUM
Hollis W. Wolcott, Mount Vernon, Ohio
Application April 7, 1938, Serial No. 200,783
3 Claims. (Cl. 84—322)



1. A pick of the class described, having a body of relatively stiff elastic material having a plurality of picking points, the body being chamfered toward all of said points.

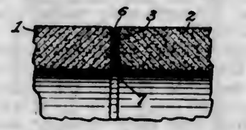
2,170,180
VAPOR PHASE FILTERING PROCESS FOR THE TREATMENT OF HYDROCARBON VAPORS
Malcolm P. Youker, Bartlesville, Okla., assignor, by mesne assignments, to The Gray Processes Corporation, Jersey City, N. J., a corporation of Delaware
Application December 4, 1937, Serial No. 178,035
6 Claims. (Cl. 196—96)

3. The method of treating hydrocarbon vapors to polymerize and remove gum-forming and other objectionable constituents therefrom which comprises maintaining a body of fuller's earth, generally circular in cross-section, cylindrical at least in part, arranged with its axis substantially vertical, and provided with an elongated cavity generally circular in cross-section located at least in part within said cylindrical part and concentric therewith, introducing said vapors into said cavity without substantial prior contact with said body, passing said vapors horizontally into said body from said cavity at a multiplicity of points uniformly distributed in the periphery of at least a section of said cavity within said cylindrical part whereby distribution of said vapors in that part of said body horizontally adjacent said multiplicity of points is substantially uniform, withdrawing said vapors from said body at a multiplicity of points uniformly distributed adjacent the periphery of at least a section of said cylindrical part thereof and horizontal to said first-mentioned multiplicity of points whereby distribution of said vapors in that portion of the body adjacent said second-mentioned multiplicity of points is substantially uniform, and whereby said vapors pass horizontally across said body from said cavity to said periphery to effect substantially uniform concentration of vapors at all points of said body horizontally equidistant from the axis thereof and between said multiplicities of points, and whereby said vapors pass through said body at substantially uniformly decreasing velocity to effect substantially uniform deposition of poly-



mers in said body in the path of said vapors, maintaining immediately below that portion of said body between said multiplicities of points and integral and substantially coextensive horizontally with said body a consolidated granular mass of finely divided solid material pervious to liquids formed from said vapors in said body and offering a specific resistance to the flow of said vapors at least equal to that of the portion of said body between said multiplicities of points, permitting liquids formed in said body to flow downwardly through said granular mass, and collecting said liquids at the lower boundary of said mass.

2,170,181
ELASTIC PIPE JOINT
Morris C. Allen, Mercedes, and Ray G. Shelley, Donna, Tex.
Application June 11, 1937, Serial No. 147,614
1 Claim. (Cl. 285—90)

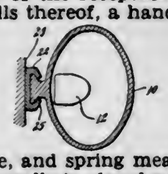


A pipe joint which includes opposed substantially plane pipe ends, generally perpendicular to longitudinal axis of the pipe, and a mass of rubber cement positioned in the space between and adhering to the opposed surfaces of the pipe ends with sufficient strength to prevent breakage of the bond due to relative movement of the pipe ends caused by contraction or expansion of the pipe due to temperature changes, said material lying normally within the space defined by inner and outer walls of the adjacent pipes and being in sufficient bulk to allow the elasticity of the mass to prevent destruction of the adhesion between the mass and the adjacent pipe members in response to relative movement of adjacent pipe members.

2,170,182
TOOTH POWDER DISPENSING DEVICE
Alfred A. Anthony, New York, N. Y.
Application June 23, 1938, Serial No. 215,398
3 Claims. (Cl. 221—62)

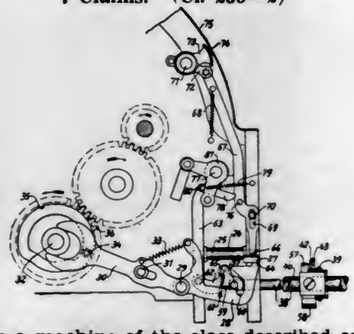
2. In a gravity-feed dispensing device, a receptacle, a closure arcuate in transverse cross-section and having the convex side thereof dis-

posed inwardly of the receptacle and projecting beyond the walls thereof, a handle for operating



the said closure, and spring means for retaining said closure normally in closed position.

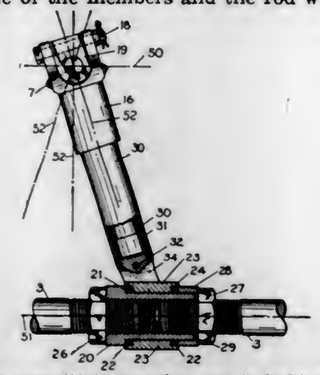
2,170,183
CASH REGISTER AND ACCOUNTING MACHINE
Karl Bullerjahn, Berlin-Neukolln, Germany, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application September 5, 1935, Serial No. 39,210
In Germany November 17, 1934
7 Claims. (Cl. 235—2)



1. In a machine of the class described capable of performing add and total taking operations, and having a printing hammer; a shiftable cam to actuate the hammer a plurality of times for each operation of the machine when in one position and a single time during each operation when in another position; means to shift the cam from one of said positions to another of said positions; manipulative control devices; a differentially settable means set under control of the manipulative control devices; and an element coacting with the differentially settable means and the shifting means to determine into what position the cam is to be shifted by the shifting means; and a total control lever, the combination of a device settable into one of a plurality of positions by the element during adding operations, said device acting to control the element during total taking operations; and a locking element coacting with the device to lock the device in either one of the plurality of positions in which it is set under control of the differentially settable means during adding operations, said locking element movable into locking position by the total lever when the total lever is moved into total taking position to enable the device to control the element whereby the same number of impressions are made during total taking operations as are made during adding operations.

2,170,184
ROCKER ARM
John F. Cailloux and Philip M. Rea, Oklahoma City, Okla.
Application March 4, 1937, Serial No. 128,952
11 Claims. (Cl. 74—559)

1. The combination with a piston rod, and with a rocker arm for transferring motion from the rod to another mechanical element, said rocker arm consisting of two slidably connected members, of connecting means between the free end of one of the members and the rod whereby



the rod is permitted rotation yet is held against longitudinal movement with relation to the arm, and means for rockably connecting the free end of the other member to said mechanical element.

2,170,185
MENTHYL ANTHRANILATE AND PROCESS OF PREPARING SAME
Marion Scott Carpenter, Nutley, N. J., assignor to Givaudan-Delawanna, Inc., New York, N. Y., a corporation of New York
No Drawing. Application April 1, 1936, Serial No. 72,144
7 Claims. (Cl. 167—90)

7. A cosmetic preparation comprising a composition containing the menthyl ester of anthranilic acid.

2,170,186
HAND GUARD FOR FISHING REELS
Ty Catron, Dallas, Tex., assignor to Shakespeare Company, Kalamazoo, Mich.
Application August 12, 1937, Serial No. 158,741
3 Claims. (Cl. 242—84.1)

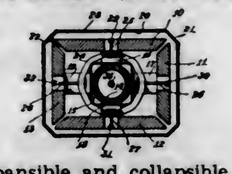


1. In combination with a fishing reel having a tail plate and transverse pillars connected thereto, a guard member having a curved peripheral flange and a side flange, said guard member being operatively mounted on the reel with said curved flange flush with the periphery of the plate and partially coextensive peripherally therewith to constitute a hand guard or grip, said side flange lying against the side surface of said plate and having end recesses engaged with said pillars by springing the guard member.

2,170,187
LACQUER
Walter J. Clarke, Chatham, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 29, 1936, Serial No. 103,102
3 Claims. (Cl. 260—16)

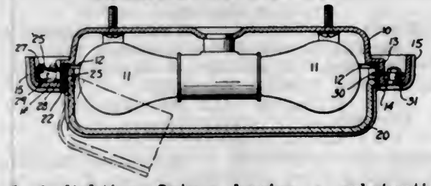
1. A perspiration-resistant lacquer composition consisting of the following ingredients in approximately the following proportions combined with volatile suitable solvents: nitrocellulose 52 parts, alkyd resin 18 parts, dibutyl phthalate 15 parts, impalpable silica gel 15 parts, said silica gel having been added as a powder at some stage of the preparation of the lacquer.

2,170,188
COLLAPSIBLE CORE
Walter H. Cobi, New York, N. Y.
Application October 30, 1937, Serial No. 171,867
20 Claims. (Cl. 25—128)



1. An expansible and collapsible core including metallic means for limiting the expansibility of the core, means for expanding said core, resilient means opposing the said expanding means and tending to collapse said core, and means for limiting the degree to which said core may be collapsed.

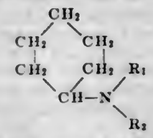
2,170,189
LIGHTING FIXTURE
Leroy C. Doane, Meriden, Conn., assignor to The Miller Company, Meriden, Conn., a corporation of Connecticut
Application May 29, 1937, Serial No. 145,428
10 Claims. (Cl. 240—7.35)



1. A lighting fixture having a substantially horizontal fixed frame provided with a recessed lower face in the side wall of which is an aperture, a shade having a peripheral edge, a band fitted about said edge and receivable in the recessed face, and hinge connections between the band and frame comprising a downwardly opening hooked member carried by the band disposed in a vertical plane and extending through the aperture in the side wall of the recess, the frame having an element under the end of the hooked member which supports the hooked member and band when the shade is in closed position and having an upwardly extending hook engaging element which prevents sliding the hooked member out of the aperture when the shade and band hang down.

2,170,190
ORGANIC MATERIALS
Henry Dreyfus, London, England
No Drawing. Application March 18, 1938, Serial No. 196,629. In Great Britain April 15, 1937
3 Claims. (Cl. 8—130)

1. Process for improving the properties of materials comprising filaments, fibres, yarns, ribbons and the like having a basis of organic esters of cellulose comprising saponifying said materials by treatment under superatmospheric pressure with a bath containing 4–5% of a cyclohexylamine derivative of the formula

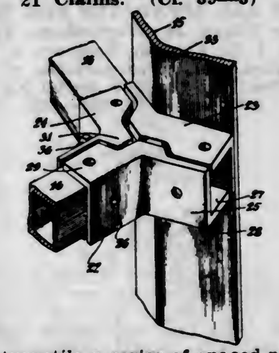


where R_1 is an alkyl or aralkyl group and R_2 is an alkyl or aralkyl group or a hydrogen atom.

2,170,191
TREATMENT OF RUBBER
Harry L. Fisher, Leonia, N. J., assignor, by mesne assignments, to United States Rubber Company, New York, N Y., a corporation of New Jersey
No Drawing. Application May 31, 1934, Serial No. 728,311
35 Claims. (Cl. 18—53)

1. A process of producing vulcanized rubber which comprises effecting vulcanization of the rubber by means of a quinone-imine compound and an oxidizing agent incorporated in the rubber prior to complete vulcanization.

2,170,192
TURNSTILE
Herbert A. Gersbach, Flushing, and Daniel R. Bacon, Craigsville, N. Y., assignors to Perey Manufacturing Company, Inc., New York, N. Y., a corporation of New York
Application July 18, 1936, Serial No. 91,308
21 Claims. (Cl. 39—3)

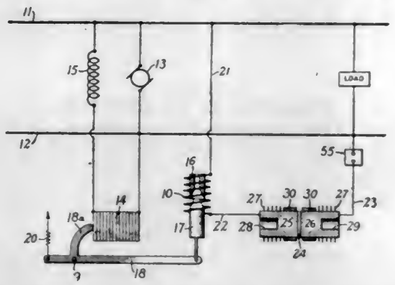


8. In a turnstile a series of spaced radial arms and a corresponding series of complemental brackets, a pair of such brackets cooperating to support each arm and jointly forming an opening extending radially thereof to receive the end of a turnstile arm; a supporting member extending along said series of brackets and arms; and means for positively but removably securing the corresponding arm in each of said openings and to said supporting member independently of the others.

2,170,193
ELECTRIC REGULATION
Frank W. Godsey, Jr., North Adams, Mass., assignor to The Safety Car Heating & Lighting Company, a corporation of New Jersey
Original application January 21, 1935, Serial No. 2,707, now Patent No. 2,067,604, dated January 12, 1937. Divided and this application December 17, 1936, Serial No. 116,285
3 Claims. (Cl. 171—229)

1. In a system of electric regulation within an

electric circuit wherein a translating device, having certain predetermined internal and external physical characteristics and having certain predetermined thermal capacity and certain predetermined heat radiating surface, has the characteristic that its impedance changes with changes in operating temperature, a compensating impedance unit having internal and external physi-



cal characteristics and thermal capacity and heat radiating surface similar to the corresponding characteristics of the translating device, and having an impedance which varies as the temperature changes in a manner to compensate for changes in the impedance of the translating device, said compensating unit having a main body and a plurality of fin-like elements extending therefrom.

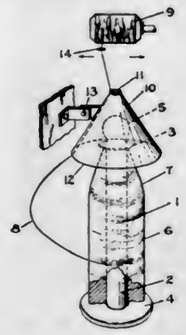
2,170,194

METHOD AND APPARATUS FOR WINDING

Ernest Lee Griggs, Jr., Waynesboro, Va., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

Application July 21, 1937, Serial No. 154,836

3 Claims. (Cl. 242—128)



1. A method for the over-end unwinding of thread from a stationary supply package, which thread, during the winding thereof, is subject to thread-ballooning thereby causing thread-sloughing or peeling, the step of compressing the balloon of said thread by passing the latter through an inverted, hollow, cone-shaped member positioned over the end of the supply package in such a manner as to partially surround the latter, the open ended apex of the cone-shaped member being positioned above the top of said supply package, and substantially suppressing further ballooning of the thread by passing the same through an opening in said cone-shaped member which opening is substantially smaller than the thread supporting element of said supply package.

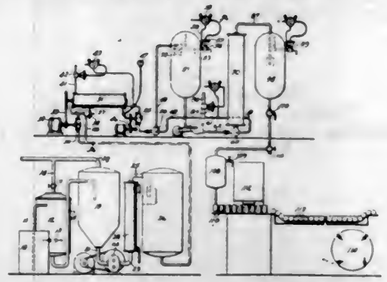
2,170,195

STERILIZING APPARATUS

George Grindrod, Oconomowoc, Wis.

Application April 18, 1935, Serial No. 17,012

10 Claims. (Cl. 99—251)



1. Sterilizing apparatus including a sterilizing chamber provided with means for continuously delivering material thereto in a non-pulsating stream, associated means for heating the material to a desired sterilizing temperature and removing air therefrom immediately prior to its delivery to said chamber, expander nozzles having walls exposed to the heat of the material, said nozzles being connected to deliver steam into the inlet portion of said chamber to drive the material through said chamber by kinetic energy, said chamber being formed and adapted to deliver all particles of the material therethrough in a turbulent stream within substantially the same predetermined period of time.

2,170,196

METHOD OF STERILIZING FOOD PRODUCTS

George Grindrod, Oconomowoc, Wis.

No Drawing. Application January 15, 1936, Serial No. 59,221

8 Claims. (Cl. 99—215)

1. The process of manufacturing sterile liquiform food products, which consists in quickly heating the material to a momentary temperature ranging from about 220 degrees F. to about 240 degrees F., simultaneously dispersing the particles to stabilize them against coagulation and agglomeration, promptly cooling the material to arrest thermo-chemical and flavor change, again subjecting the particles substantially instantaneously to a temperature ranging from about 260 degrees F. to about 280 degrees F. for a few seconds and with substantial uniformity in temperature and time as to all particles, immediately reducing the temperature to again arrest thermo-chemical and flavor change, and then canning and subjecting the canned material to a low sterilizing temperature.

2,170,197

SPRING TESTING SCALE

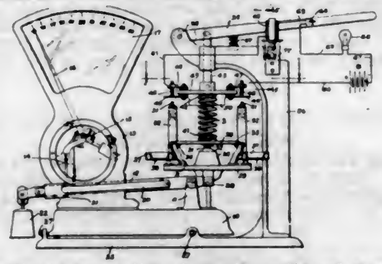
William Gumprich, Brooklyn, N. Y., assignor, by mesne assignments, to American Coil Spring Company, Muskegon, Mich., a corporation of Michigan

Application June 4, 1932, Serial No. 615,305

11 Claims. (Cl. 265—16)

2. In a device for testing coil springs, a lever, tiltable means operatively carried by said lever and having provisions for supporting and centering a coil spring to be tested, means for compressing the spring to rock the lever indicating means operable upon rocking of the lever to indicate according to the pressure of the compressed

spring, and means operated solely by and in accordance with the tilting of the tiltable means



to indicate according to uniformity of strength of the spring about its circumference.

2,170,198

PROCESS FOR MAKING WATER PRINTING INKS

Hans Hadert, Berlin, Germany, assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application February 25, 1935, Serial No. 8,082. In Germany May 29, 1934

8 Claims. (Cl. 134—36)

1. A process for producing water printing inks which consists in preparing a solution of water and a water emulsifiable oil selected from a group consisting of sulphonated castor oil, sulphonated neat's-foot oil and sulphonated oleine, preparing a solution of an alcohol soluble copal resin, alcohol and a water emulsifiable oil selected from the group above mentioned, adding an alkali to said last mentioned solution in an amount necessary to reduce the high acidity of the same, adding an organic base selected from the group consisting of monoethanolamine, diethanolamine and triethanolamine, mixing said solutions and adding to the varnish so produced water insoluble coloring matter.

2,170,199

SHOULDER PAD AND METHOD OF MAKING SAME

William H. Hawkins, Brooklyn, N. Y., and Maurice Seldits, Stamford, Conn., assignors to Freydberg Bros., Inc., Stamford, Conn., a corporation of New York

Application December 9, 1937, Serial No. 178,864

17 Claims. (Cl. 2—267)



1. A shoulder pad blank comprising a filler having a thick central portion and tapering off therefrom to a relatively thin peripheral edge, and a facing formed of a felted material on both the top and bottom of said filler, each of said facings extending beyond and forming a marginal zone adjacent said thin edge, said facings being felted together in said marginal zone.

2,170,200

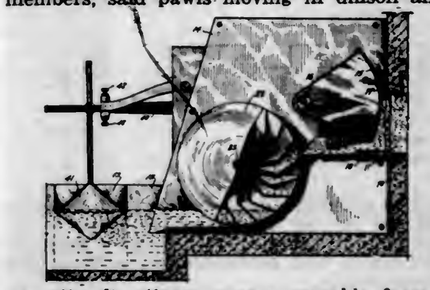
HEAD GATE CONTROL DEVICE

David W. Karnes, Denver, Colo.

Application September 6, 1938, Serial No. 228,468

14 Claims. (Cl. 61—23)

1. A device for automatically opening and closing a headgate in consequence of variations of the height of a float so as to maintain a uniform flow of fluid through a conduit, comprising: a pair of rotary oscillating members; a ratchet wheel for each of said members; a ratchet pawl oscillated about each ratchet wheel by one of said members, said pawls moving in unison and in



opposite directions; means operable from said float for causing either one of said pawls to engage its ratchet wheel; and means for transmitting the movement of said ratchet wheels to said gate to open or close the latter.

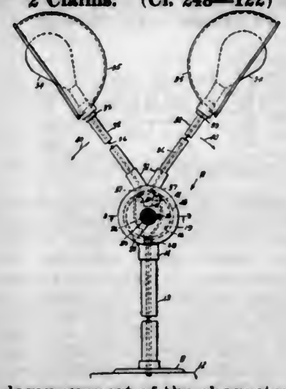
2,170,201

ADJUSTABLE ELECTRIC LAMP

William Knapp, Hollis, N. Y.

Application September 22, 1938, Serial No. 231,125

2 Claims. (Cl. 248—122)



1. In a lamp support of the character described, a load-carrying member, a ring carried by said load-carrying member at one end thereof, an internal lug carried by said ring, cup-shaped shells at opposite sides of said ring rotatably engaged therewith, lamp-carrying arms extending radially outwardly from said shells, stop members carried by said shells and extending inwardly therefrom through said ring at opposite sides of said lug for engaging the lug for limiting turning of the shells, and means for rotatably holding said shells in engagement with opposite sides of said ring and frictionally resisting movement of the shells relative to the ring.

2,170,202

RECEIVER FOR FREQUENCY-MODULATED WAVES

Karl Küpfmüller, Berlin-Charlottenburg, Germany, assignor to Fides Gesellschaft für die Verwaltung und Verwertung von gewerblichen Schutzrechten mit beschränkter Haftung, Berlin, Germany, a corporation of Germany

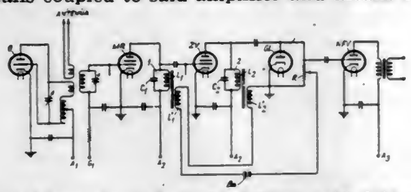
Application January 12, 1939, Serial No. 250,520

In Germany January 3, 1938

3 Claims. (Cl. 250—20)

1. In a frequency modulated wave receiver, means for heterodyning a frequency modulated

wave to a lower frequency, an intermediate frequency amplifier of a relatively narrow band width coupled to said first means, detecting means coupled to said amplifier and means con-



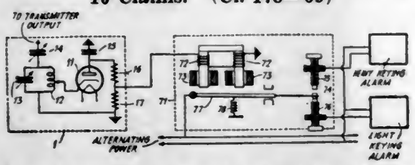
trolled by potentials derived from said detecting means for varying the mean frequency of response of said intermediate frequency amplifier in accordance with potentials derived from said detecting means.

2,170,203

LONG DASH AND LIGHT KEYING INDICATOR

Chester W. Latimer, West Orange, N. J., and James L. Finch, Patchogue, James W. Conklin, Rocky Point, and Hallan Eugene Goldstine, Port Jefferson Station, N. Y., assignors to Radio Corporation of America, a corporation of Delaware

Application January 17, 1936, Serial No. 59,542
10 Claims. (Cl. 178—69)



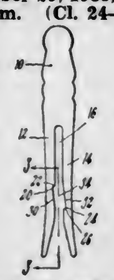
1. In a system for indicating departures from a normal marking bias in the keying of telegraphic radio signals and the amplitude of keying of a keyed wave, keyed wave receiving, amplifying and rectifying means, a resistance connected with said rectifying means, a thermionic responsive means having input electrodes connected in shunt to a portion of said resistance, and having output circuits, a three-position relay connected with said output circuits, a plurality of indicators, and energizing circuits including contacts associated with said relay for operating each of said indicators.

2,170,204

CLOTHESPIN

John E. Lemoine, Maynard, Mass.

Application November 29, 1938, Serial No. 242,937
1 Claim. (Cl. 24—137)



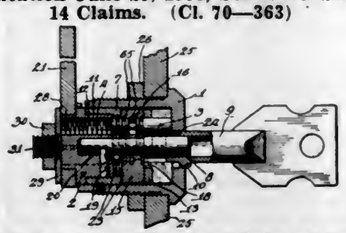
A clothespin having a pair of legs with a slot between, the inner face of one of said legs having a transverse notch forming a downwardly facing shoulder nearly perpendicular to the vertical axis of the pin, the inner face of the other leg having a notch forming an upwardly facing shoulder vertically spaced from the downwardly facing shoulder, said shoulder and adjacent face portions of the legs forming a substantially rectangular space between said legs which is inclined at a small angle to the vertical axis of the pin.

2,170,205

LOCK CONSTRUCTION

Joseph Lombardo, Chicago, Ill., assignor of one-half to Sydney Roth, Chicago, Ill.

Application June 29, 1938, Serial No. 216,443
14 Claims. (Cl. 70—363)



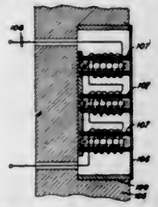
1. A lock construction comprising a rotatable carrier for tumblers and springs, a plurality of unitary parallel tumblers slidably mounted for axial movement in said carrier, each tumbler having a reduced intermediate portion, a plurality of springs, one for each tumbler, means for preventing rotation of said carrier when an unreduced portion of a tumbler is aligned with said preventing means but enabling rotation of the carrier when all of the reduced portions of the tumblers are aligned with said preventing means, and a key centering and supporting pin coaxial with said carrier over which pin fits a tubular key having a ward extending outwardly from said tubular portion, said carrier comprising a rear section having parallel recesses in which the rear ends of said tumblers slide and in which the springs are mounted, and a front section in which the front ends of the tumblers slide, the reduced intermediate portion of said tumblers being exposed between said sections for cooperation with said preventing means, said front section having a recess to receive said outwardly-extending ward whereby turning the key will cause rotation of the carrier.

2,170,206

ELECTRICAL, AND ELECTROMECHANICAL SYSTEM EMPLOYING MAGNETOSTRICTIVE DEVICES

Warren P. Mason, West Orange, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application May 8, 1937, Serial No. 141,485
10 Claims. (Cl. 178—44)



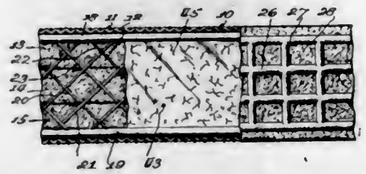
1. In combination a magnetostrictive device comprising a single electrical coil electromagnetically coupled with a single vibrating element of magnetostrictive material, and a condenser in series with said electrical coil whereby said combination produces at one frequency an electrical anti-resonance and at two other frequencies electrical resonances, the anti-resonance occurring at a frequency lying between the frequencies at which resonance occurs, all of said frequencies being non-harmonically related.

2,170,207

INSULATING TAPE AND METHOD OF MAKING THE SAME

Carl Mosier and John L. Mohun, Jr., Chicago, Ill., assignors to Union Asbestos & Rubber Company, Chicago, Ill., a corporation of Illinois

Application June 14, 1937, Serial No. 148,045
7 Claims. (Cl. 154—28)



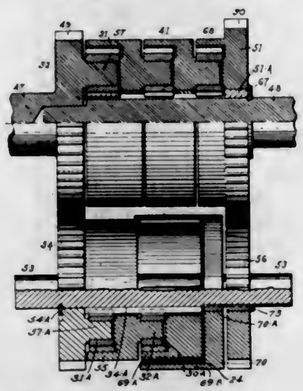
3. The method of making insulating tape which comprises weaving a tubular fabric sheath of insulating material with transversely and longitudinally extending ribs on one of the outer sides of said sheath, assembling a plurality of rovings of insulating material in overlapping relation to form a filler for said sheath, and covering one side of said filler with a layer of heat reflecting material, interlacing a tension resisting netting about said rovings and layer, and drawing said filler into the sheath to form a tape.

2,170,208

VARIABLE SPEED POWER TRANSMISSION DEVICE WITH SPEED-TORQUE ACTUATED GIVE-AWAY CONTROL

Howard J. Murray, New York, N. Y.

Application April 22, 1936, Serial No. 75,768
13 Claims. (Cl. 74—259)



1. A device for controlling the power transmitted by and between a pair of power members whereby the members will assume a proper speed-drive relation, said device including means constituting a plurality of power transmitting paths in parallel relation between said members, one of said paths including differential speed driving sets each in speed driving relation with one of the members and with adjacent sets, one set in driving relation with the other member, a second path in parallel relation to the first mentioned path including differential speed driving sets each in speed driving relation with adjacent sets and one of the sets of the first mentioned path, one set of said second path in driving relation with one of the members, a rotatable normally positive-drive speed-torque responsive control couple constituting a third path in parallel relation to the second mentioned path and including a couple portion formed by a plurality of resilient elements connected to one of the first mentioned path sets and a second couple portion formed with a plurality of resilient element actuators operatively connected to a part of one of the sets of the said second mentioned path, said resilient elements being automatically changeable from a positive drive portion to a slip-drive portion as a result of the resistance of the driven member.

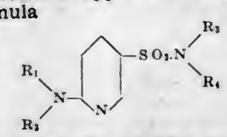
2,170,209

SULPHONAMIDES OF 2-AMINOPYRIDINES

Carl Naegeli, Zurich, Switzerland, assignor to Cilag, Chemisches Industrielles Laboratorium A. G., Shaffhausen, Switzerland

No Drawing. Application March 22, 1938, Serial No. 197,360. In Switzerland November 24, 1937
5 Claims. (Cl. 260—296)

1. A medicinal preparation including a substance non-toxic in approved dosage having the general formula



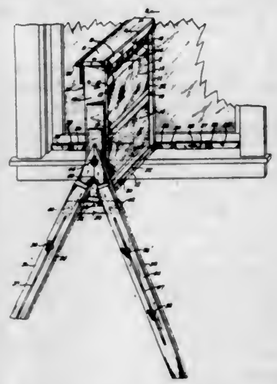
in which R_1, R_2, R_3, R_4, are radicals of the class consisting of hydrogen, alkyl-, aryl-, aralkyl-, heterocyclic- and acyl-groups, prepared for use in the treatment of germ infections.

2,170,210

OBSERVATION UNIT FOR BEES OR THE LIKE

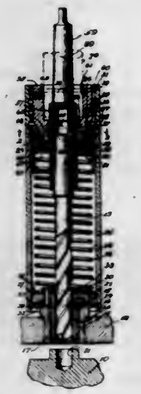
Donald E. O'Beirne, Waukesha, Wis.

Application August 15, 1938, Serial No. 224,889
14 Claims. (Cl. 6—1)



1. A bee observation unit, comprising, a bee confining cage having an observation opening therethrough, an elongated sill adapter secured to one end of the cage and formed for disposition between a window and its sill, and a support at the opposite end of said cage.

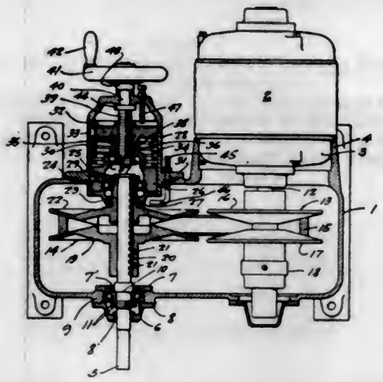
2,170,211
MACHINE TOOL
Horace A. Osborne, Racine, Wis., assignor of two-fifths to Webster Electric Company, Racine, Wis., a corporation of Wisconsin
Application September 24, 1937, Serial No. 165,442
5 Claims. (Cl. 77—55)



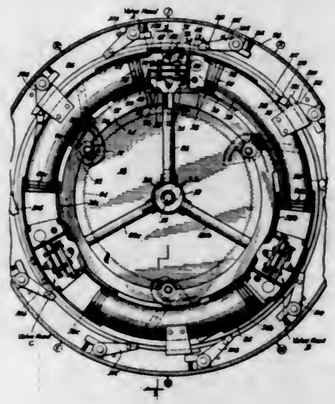
1. In a machine tool attachment, the combination of a tubular metal housing, said metal housing having a guide member removably secured in one end and provided with an aperture for guiding a drill or the like, with a sliding member mounted in said tubular metal housing, stop means at the end of said tubular metal housing for limiting the outer movement of said sliding member, spring means between said sliding member and said guide member, an anti-friction bearing carried by said sliding member, and a tool holder carried by said sliding member whereby the drill or the like may be rotated and reciprocated in said guide member and said guide member may be carried by said tool from one work piece to another.

2,170,212
VARIABLE RATIO TRANSMISSION DEVICE
George T. Pfleger, Los Angeles, Calif., assignor to U. S. Electrical Motors, Inc., a corporation of California
Application February 19, 1934, Serial No. 711,919
10 Claims. (Cl. 74—230.17)

4. In an adjustable speed drive, a driving pulley structure, a driven pulley structure, a belt in active driving relation to said pulley structures, one of said pulley structures having an adjustable effective diameter and including a pair of pulley sections having opposed inclined belt engaging faces, forming by relative axial adjustment variable effective pulley diameters, and means for adjusting the relative axial position of said pulley sections comprising; a bearing member axially fixed with respect to one of said pulley sections, an axially movable member engaging said bearing member, means for supporting said axially movable member for axial movement and for preventing the rotation thereof, yielding force transmitting means including a pair of abutment members and resilient means for urging said abutment members into contact with each other, an adjustable member connected to one of said abutment members, and means for connecting the other of said abutment members to said axially movable member, whereby the total adjustment initiated by the adjustment of said adjustable member is transmitted in direction and amount to said axially movable member, upon rotation of the adjustable pulley structure and when the force opposing the adjustment of said axially movable member becomes less than the force urging said abutment members into contact with each other.

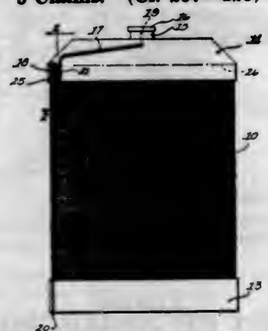


2,170,213
INTERNAL COMBUSTION ENGINE
Robert H. Prew, Nashua, N. H.
Application November 7, 1936, Serial No. 109,619
18 Claims. (Cl. 123—43)



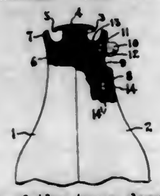
1. An internal combustion engine having a pair of interconnecting power and compression cylinders each provided with a piston, comprising in combination, means to produce an explosion in the power cylinder while the piston in the compression cylinder is intaking, means to exhaust burned gases from the power cylinder while the piston within the compression cylinder is dwelling, and means to move the piston within the compression cylinder to transfer combustible gases from the compression cylinder to the power cylinder while the piston within the power cylinder is dwelling.

2,170,214
RADIATOR USED WITH INTERNAL COMBUSTION ENGINES
Homer B. Morrow and George W. Walker, Platteville, Wis.
Application June 7, 1937, Serial No. 146,841
5 Claims. (Cl. 257—125)



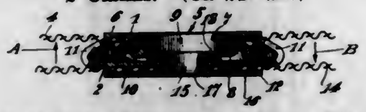
1. In a radiator to be provided with liquid, an overflow pipe, a trap in the overflow pipe, and a connection for liquid between the radiator and the lowermost portion of the trap.

2,170,215
MOVABLE GUARD FOR DRY SHAVERS
James H. Rand, Jr., Stamford, Conn.
Application July 23, 1937, Serial No. 155,198
1 Claim. (Cl. 30—43)



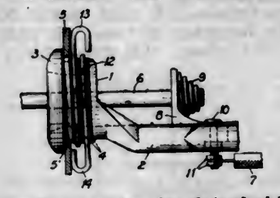
A dry shaver of the type described comprising a handle, a cutter head mounted on the end of the handle, said handle having a recess in its side wall adjacent said head, a movable guard plate mounted on the handle in said recess, and a spring for holding said plate in and returning it to guarding relationship with respect to the cutter head when released.

2,170,216
SNAP FASTENER
Henry V. Rau, Amityville, N. Y., assignor to Edwin B. Stimpson Company, Brooklyn, N. Y., a corporation of New York
Application February 26, 1938, Serial No. 192,729
2 Claims. (Cl. 24—217)



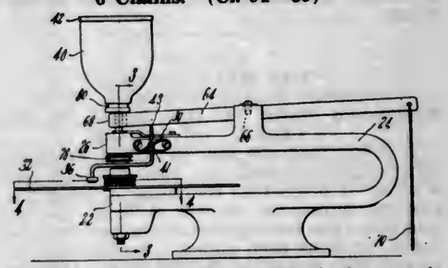
2. A flat snap fastener comprising a disc member having a round rolled edge, a cupped socket member having a flat back plate, spring fingers extending inwardly from said back plate, the diametrical distance between the ends of said spring fingers being slightly less than the diameter of the largest periphery of the rounded rolled edge of the disc member, the height of the ends of said spring fingers above the flat back plate being less than the thickness of the rolled edge on the disc member, the disc member and the socket member being constructed and arranged to telescope with the roller edge of the disc member resting against the back plate of the socket member when the members are telescoped, means to secure the disc member to seet material, and means to secure the back plate of the socket member flatly against another piece of sheet material.

2,170,217
ELECTRICAL CONNECTING DEVICE
Otto A. Rieman, St. Louis, Mo.
Application December 23, 1936, Serial No. 117,393
1 Claim. (Cl. 173—339)



In a clamping member for detachably clamping an electrode receptacle to a support which receptacle has a cylindrical portion for extending through an opening in a supporting plate and is provided with a flange for engaging one surface of the plate adjacent the opening and with threads on its external surface, said clamping member comprising a coiled member made of wire and adapted to be screwed on the threads, the ends of the wire extending outwardly on diametrically opposite sides of the coiled member to provide abutment surfaces and also means to facilitate screwing the coiled member on the threads, each of said ends having a radially extending portion forming an abutment surface at one end of the coiled member and a bent portion forming an axially spaced abutment surface positioned at the other end of the coiled member, the abutment surface of the bent portion of each end lying in the same plane as the abutment surface of the radially extending portion of the other end whereby each end will directly engage diametrically opposite portions of the surface of the supporting plate when the coiled member is screwed on the threads of the receptacle either end first.

2,170,218
MECHANISM FOR EDGE STAINING LEATHER AND THE LIKE
Stig E. Rosenberg, Brockton, Mass.
Application November 9, 1936, Serial No. 109,847
6 Claims. (Cl. 91—39)



1. Mechanism of the class described, comprising a horizontal work table, a roller of soft yielding material mounted to revolve freely on a vertical axis adjacent to an edge of said table, a

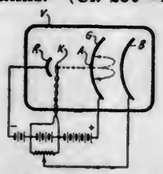
hollow vertical shaft extending through said roller, said shaft being closed at its lower end and opening above said roller into an ink reservoir, said shaft also having lateral apertures communicating with the interior of said roller, valve means for controlling the flow of ink through said apertures, and means for operating said valve when the roller is in use.

2,170,219

ULTRA HIGH FREQUENCY OSCILLATOR

Richard Seiler, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application October 28, 1937, Serial No. 171,485
In Germany October 16, 1936
9 Claims. (Cl. 250—27.5)



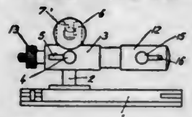
1. A braking field oscillator tube having at least three electrodes including emissive, accelerator and repulsion electrodes, the accelerator and repulsion electrodes being conformed to curved surfaces the convex sides of which are opposed to the direction of primary emission, and the accelerator electrode being apertured in zones nearest the sources of primary emission.

2,170,220

HAIR WAVING APPARATUS

Otto Siefert and Richard Pfennig, Berlin-Reinickendorf, Germany, assignors to Lawrence M. Gelb, New York, N. Y.

Application January 21, 1936, Serial No. 60,032
In Germany August 7, 1935
19 Claims. (Cl. 132—33)



1. Hair waving apparatus comprising two parts the parts carrying posts about which the hair to be waved is wound, means whereby the relative positions of the said parts can be varied so as to vary the spacing of the posts, and means for fixing the parts in position relatively to one another.

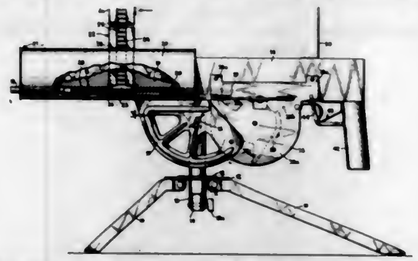
2,170,221

TOY MACHINE GUN

Frederic Stanley, New York, N. Y.

Application March 11, 1938, Serial No. 195,229
8 Claims. (Cl. 124—29)

1. A toy machine gun including in combination a barrel means for automatically feeding a series of projectiles thereinto, a firing pin for ejecting bullets in succession from the barrel, said firing pin having resilient means for advancing it for firing each bullet, a hand wound motor spring with actuating means driven thereby including means for first cocking the firing pin, and stressing its spring, then releasing the firing pin to eject a projectile and for thereafter repeating the aforesaid operations and interlocking means between said firing pin and actuating means to lock the actuating means after each cocking operation and to thereafter release the



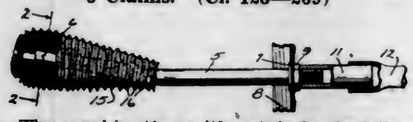
actuating means upon the firing pin means substantially completing the traverse upon firing a projectile.

2,170,222

INSTRUMENT FOR VAGINAL TREATMENT

Oscar A. Strauss, Milwaukee, Wis.

Application October 28, 1935, Serial No. 47,022
3 Claims. (Cl. 128—269)



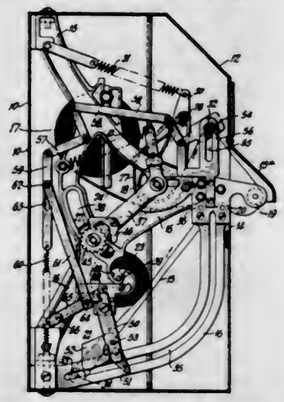
1. The combination with a tubular handle and a receptacle closure mounted on said handle adjacent one end thereof and beyond which said handle projects to receive a syringe connection, and a spongy mass mounted about the other end of said handle and comprising an applicator said handle having a terminal opening within said mass to deliver material thereto in the course of its use as an applicator.

2,170,223

TOWEL CABINET

William L. Sylvester, Lyndhurst, N. J.

Application September 17, 1936, Serial No. 101,186
11 Claims. (Cl. 312—38)



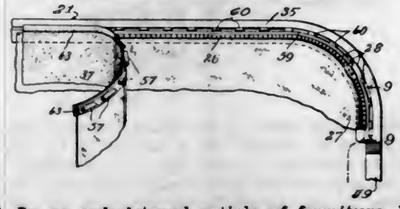
7. A towel cabinet having a support for a roll of clean towel, means for re-rolling the soiled towel, a pull-in device for pulling into the cabinet and releasing, as required, a usable length of towel between the supply and the re-rolling device, and means for locking the pull-in device, and means operated by the feeding of towel from the fresh towel supply to release said locking means.

2,170,224

UPHOLSTERED FURNITURE

Samuel Tarr, Chicago, Ill.

Application May 16, 1936, Serial No. 80,025
4 Claims. (Cl. 155—182)



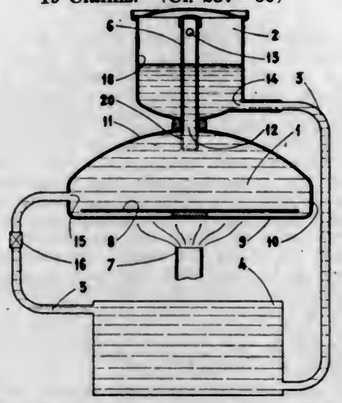
2. In an upholstered article of furniture, having a removable cover simulating a covering which is permanently installed, in combination, rigid tubular members on said covering, rigid tubular members on the article, the rigid tubular members on the covering and article respectively being arranged in alternating and abutting relation, means securing the adjacent tubular members together whereby the covering is securely and removably anchored to the article, and means carried by the covering adapted to overlie the tubular members.

2,170,225

METHOD AND APPARATUS FOR EFFECTING CIRCULATION OF A LIQUID IN A PIPE SYSTEM

Nils Wilhelm Unge, Stockholm, Sweden

Application June 8, 1937, Serial No. 147,042
In Sweden June 19, 1936
19 Claims. (Cl. 237—60)



4. Method of effecting circulation of a liquid in a pipe system for heat transmission, cooling and the like, consisting in producing alternate overpressures and underpressures in a closed vessel provided with a heating device and connected to the pipe system both directly and through a second vessel, by generating and condensing vapor bubbles in the liquid in said closed vessel, so that a quantity of the liquid filling the pipe system and the closed vessel completely and the second vessel to a certain level is caused to move in desired direction first from one vessel to the other through the connection between them which is arranged so as to allow the liquid to flow from one vessel to the other but not in the opposite direction, and thereafter through the pipe system, said vaporization in the heating vessel taking place between its heating surface and a screen placed at a suitable distance from said heating surface, in order to produce large vapor bubbles and thereby high overpressures and underpressures in the vessel on the generation of the vapor bubbles and their condensation in the vessel.

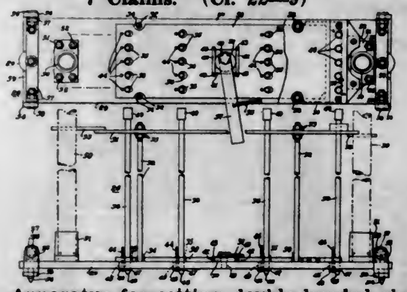
9. Apparatus for effecting circulation of liquid in a pipe system for heat transmission, cooling and the like, comprising in combination, a closed vessel with a heating device; a second vessel; a conduit between the two vessels including the pipe system and connected to a heating element in a heat emitting device; and another connection between the two vessels allowing a liquid filling the pipe system and the closed vessel completely and the second vessel to a certain level to flow from one vessel to the other but not in the opposite direction; said closed vessel including a screen placed at a suitable distance from the surface of the vessel where heat is supplied, dividing the vessel into two communicating zones with different temperatures of the liquid and thereby causing the formation of large vapor bubbles in the liquid on heating same in the vessel; said screen being shaped as a plate, preferably plane, and of such a size in relation to the heating vessel that the vacant space after the vapor bubbles leaving the screened off hotter zone may be rapidly filled by liquid streaming in from the other cooler zone.

2,170,226

METHOD AND APPARATUS FOR SORTING AND SETTING DOUBLE-HEADED CHAPLETS

William H. Watt, McKeesport, Pa., assignor to Columbia Radiator Company, a corporation of Pennsylvania

Application October 13, 1937, Serial No. 168,708
7 Claims. (Cl. 22—9)



6. Apparatus for setting double-headed chaplets in the manufacture of radiators which comprises means for discharging a single chaplet simultaneously from the bottom of each of a plurality of vertically aligned sets of such chaplets, said means including a plurality of magazine tubes held in spaced relationship and a corresponding number of latch mechanisms normally obstructing the bottoms of said magazine tubes and adapted to be retracted simultaneously to a non-obstructing position.

2,170,227

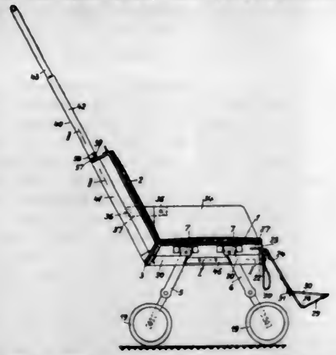
COLLAPSIBLE BABY CARRIAGE

Ernst Weber, Baretswil, Zurich, Switzerland

Application October 1, 1938, Serial No. 232,731
9 Claims. (Cl. 280—37)

1. A collapsible baby carriage comprising in

combination a back and seat hinged together, said back and seat being of box-like shape, a handle member mounted on said back, said handle member being adapted to be collapsed and into said back, a footrest mounted on said seat, wheels mounted on said seat, the arrangement being



such that in the collapsed position the footrest and wheels are accommodated in said seat and said back, means for securing together said seat and back in the collapsed position so as to form a container, said handle member forming a handle for said container when the baby carriage is in the collapsed condition.

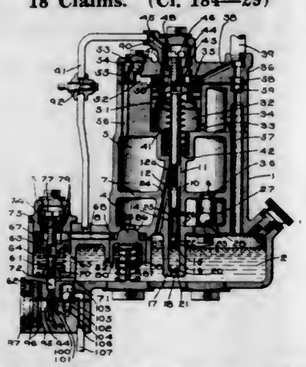
2,170,228

LUBRICATING DEVICE

Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application April 8, 1937, Serial No. 135,619

18 Claims. (Cl. 184—29)



1. In a force-feed lubricator, in combination, a casing having a supply chamber containing a quantity of fluid lubricant, and a control chamber, a pump operable to supply fluid lubricant from said supply chamber to said control chamber, and lubricant distributing means operative upon a predetermined increase in the pressure of lubricant within said control chamber to force a quantity of lubricant under pressure from said supply chamber to a delivery communication.

2,170,229

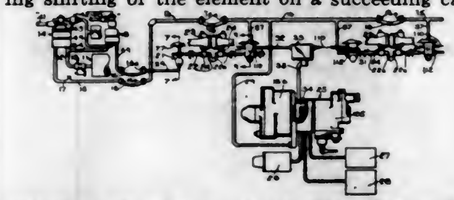
TRAIN BRAKE MECHANISM

Burton S. Aikman, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania

Application April 8, 1938, Serial No. 200,915

23 Claims. (Cl. 303—13)

1. A train brake equipment comprising an element on each car of the train shiftable out of a normal position thereof, fluid pressure operated, means on each car operated in response to the shifting of the element thereon out of its normal position for mechanically effecting a corresponding shifting of the element on a succeeding car,



means at one point in the train for effecting the shifting of an element on a car out of its normal position whereby the elements on succeeding cars are serially shifted, and means controlled by the shifting of the elements on the cars out of the normal positions thereof for controlling the brakes on the train.

2,170,230

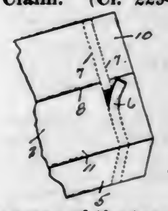
DISPENSING PACKAGE

Thomas Armstrong, Salem, Oreg., assignor to Western Paper Converting Company, Salem, Oreg.

Application December 30, 1935, Serial No. 56,787

Renewed February 7, 1939

1 Claim. (Cl. 229—51)



In a package cover of the type formed of single ply material the meeting edges of which overlap and are sealed together with adhesive, a pair of spaced, parallel weakened lines adjacent one end of the package cover formed by series of perforations therein forming a removable strip which may be torn out to sever the body of the cover from the end portion, the overlapping portion of the cover beneath the removable strip having no adhesive thereon and being unsealed so that a fingernail or instrument may be inserted thereunder to grasp the end of the strip to facilitate removing the same; the package cover designed to be used with the body portion forming a dispensing container for the contents while it is being used and withdrawn a part at a time, and the detached end when removed serving to give access to the contents without removing or disturbing the body portion.

2,170,231

SCOOP ELEVATOR

Paul Bartholet, Uzwil, Switzerland

Application April 12, 1937, Serial No. 136,365

In Switzerland April 28, 1936

6 Claims. (Cl. 198—140)

1. A high-speed bucket elevator for granular materials such as grain, mill and similar products, comprising in combination an upper drum, a lower drum, means for rotating the upper drum, an endless belt on said drums, buckets secured to said belt, transverse rods arranged at distances apart on said belt and projecting from the opposite sides thereof, guide means adjacent the upper and lower drums and bearing against the projecting ends of the transverse rods on the descending run of the endless belt for deflecting the said descending run towards the ascending



run whereby the two runs throughout their intermediate portions are caused to travel in relatively close, parallel paths, and a shaft closely surrounding said belt between said drums and widening at its upper and lower ends.

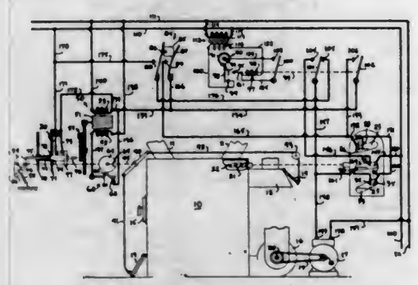
2,170,232

AIR CONDITIONING SYSTEM

George D. Bower, Columbia Heights, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application December 11, 1937, Serial No. 179,317

8 Claims. (Cl. 236—11)



1. In a heating system, a warm air furnace, air circulating means for circulating air through the heating chamber of said furnace and through a space to be heated, a damper for controlling the draft through the furnace, a three-position switch, means for causing operation of said air circulating means when the temperature of the space is below a predetermined value and the temperature of the heating chamber is above a predetermined value and causing the damper to be moved to draft producing position when the temperature of the space is below a predetermined value when said switch is in one position, means causing the damper to be moved to draft producing position regardless of the temperature of the space when the switch is moved to a second position and means causing operation of said air circulating means when the temperature in the space is above a predetermined value in response to the placing of the switch in a third position.

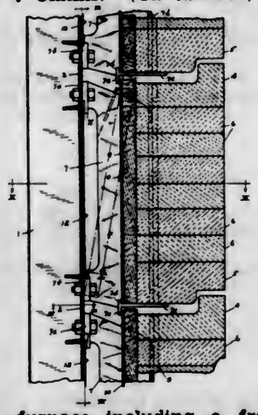
2,170,233

WALL STRUCTURE

Samuel F. Burnet, Webster Groves, Mo., assignor to Laclede-Christy Clay Products Company, a corporation of Missouri

Application December 14, 1937, Serial No. 179,662

7 Claims. (Cl. 72—101)



7. In a furnace including a framework of structural steel, a wall of refractory blocks, and brackets carried by said framework and engaging and supporting the blocks in the said wall, the combination of an outer casing assembled over said wall, said casing including a plurality of steel sheets carried by said framework and marginally engaged by said brackets and secured to the framework, together with plates assembled over the adjacent edges of companion sheets in the assembly.

2,170,234

TACK BUTTON

Leonard R. Carley, Watertown, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut

Application May 17, 1938, Serial No. 208,479

8 Claims. (Cl. 40—20)



8. A button head having an elongated hub in bottom plan on its under surface, the hub extending from about centrally of the button to a point near the under periphery of the button head, means located in the body of the hub and centrally of the button head for receiving and deforming a tack during a button-attaching operation, and the button head provided with insignia and bearing a definite position with respect to the major axis of the hub.

2,170,235

TACK BUTTON

Leonard R. Carley, Watertown, Conn., assignor to The Patent Button Company, Waterbury, Conn., a corporation of Connecticut

Application May 17, 1938, Serial No. 208,480

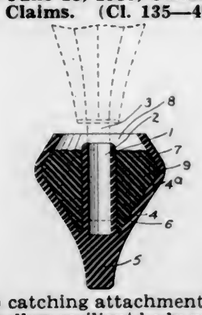
7 Claims. (Cl. 40—20)



1. A tack button having an integral hub

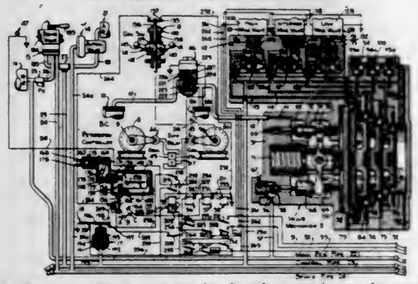
elongated in bottom plan, the said hub having two parallel sides, the ends of the hub being dissimilar in contour, insignia on the top face of the button and bearing a definite position with respect to the hub.

2,170,236
DRIP CATCHING ATTACHMENT FOR UMBRELLAS
Clarence D. De Lamater, San Diego, Calif.
Application June 13, 1938, Serial No. 213,399
3 Claims. (Cl. 135—48)



3. In a drip catching attachment for umbrellas or the like, a hollow resilient body member, means for securing it to an umbrella top, said means including a resilient hollow cylindrical portion positioned centrally within said hollow, resilient body member.

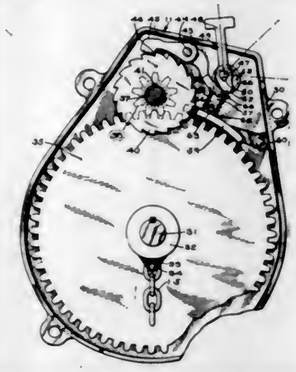
2,170,237
BRAKE CONTROL MEANS
Clyde C. Farmer, Pittsburgh, and George W. Baughman, Edgewood, Pa., assignors to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application April 20, 1937, Serial No. 137,954
39 Claims. (Cl. 303—21)



1. In a vehicle or train brake system, in combination, brake control means for controlling the degree of braking force with which the brakes are applied, means responsive to the speed of the train, means operatively responsive only to the slipping of a vehicle wheel, the speed-responsive means and the wheel-slip responsive means being jointly effective to control the operation of the brake control means.

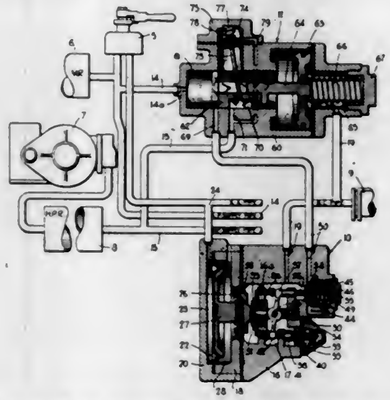
2,170,238
HAND BRAKE RELEASE CONTROL
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application October 8, 1937, Serial No. 167,910
16 Claims. (Cl. 74—505)

1. In a car hand brake mechanism of the class having a rotary element adapted to be rotated in one direction to effect an application of the brakes and rotatable in another direction for permitting the release of the brakes, in combination, a braking means engageable with said ele-



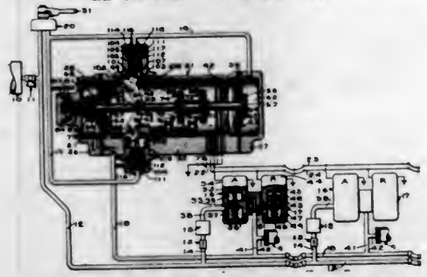
ment for controlling the speed of rotation thereof, a spring, and manually operable means for urging said braking means against said rotary element under the pressure of said spring in releasing the vehicle brakes following an application thereof by said hand brake mechanism.

2,170,239
FLUID PRESSURE BRAKE
Clyde C. Farmer, Pittsburgh, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 17, 1938, Serial No. 208,402
18 Claims. (Cl. 303—57)



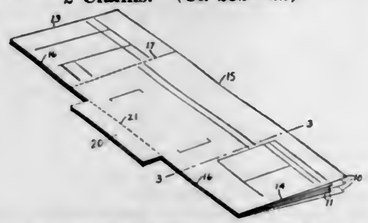
1. In a fluid pressure brake apparatus, in combination, a brake cylinder, a relay valve device operable to supply fluid under pressure to said brake cylinder for effecting an application of the brakes, control valve means controlling the communication through which said relay valve device supplies fluid to said brake cylinder, and means normally conditioning said control valve means to permit supply of fluid at moderate pressure through said communication and operative upon a predetermined increase in brake cylinder pressure to condition said control valve means to permit supply through said communication to said brake cylinder of fluid at a higher pressure.

2,170,240
MASTER CONTROLLER DEVICE
Ellery R. Fitch, Irwin, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application September 22, 1937, Serial No. 165,106
11 Claims. (Cl. 303—20)



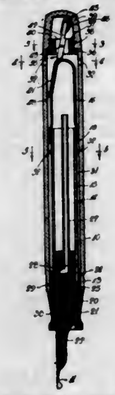
1. A control device comprising a first switch device and a second switch device, an element effective upon movement in one direction from a certain position to successively close said first switch and said second switch device and upon reverse movement in the opposite direction toward said certain position to successively open said second switch device and said first switch device, and means effective to yieldingly resist movement of said element out of a plurality of certain uniform positions with the same degree of resisting force, in one of which both of said switch devices are open, in another of which said first switch device is closed and said second switch device is open, and in the third of which both of said switch devices are closed.

2,170,241
MANIFOLDING SET
George W. Hall, Lewiston, N. Y., assignor to American Sales Book Company, Inc., Niagara Falls, N. Y., a corporation of Delaware
Application May 19, 1937, Serial No. 143,544
2 Claims. (Cl. 282—22)



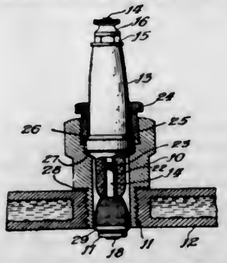
1. A manifolding assembly including, in combination, a plurality of superposed leaves, including a plurality of record leaves and at least one transfer leaf in transfer relation between two of said record leaves, said record and transfer leaves being substantially longer in one direction than in a direction perpendicular thereto, each said record and transfer leaf having a stub connecting therewith along one of the longer edges of the leaf and positioned at the same edge of said assembly, said tub being substantially shorter than said longer edge in the direction of said edge, thus providing interleaved record and transfer leaf portions for receiving transfer inscriptions and protruding in the direction of the major leaf length beyond said stubs, means for fastening the stubs together to provide an assembly binding stub for holding the leaves of the assembly together, said binding stub being relatively short as compared to the major assemmly dimension and terminating within said protruding leaf portions, each said record leaf having a weakened severance line for defining a line of separation between the leaf and said binding stub, said severance lines terinating short of said protruding leaf portions, certain of said record leaves having marginal portions remote from said binding stub extending in offset relation beyond the adjacent edge of said rtansfer leaf, and providing a selective grip formation for facilitating the selective separation of said record leaves from said binding stub and said transfer leaf.

2,170,242
FOUNTAIN PEN
Benjamin W. Hanle, Elizabeth, N. J., assignor to Eagle Pencil Company, a corporation of Delaware
Application March 11, 1938, Serial No. 195,296
3 Claims. (Cl. 120—42)



1. A heat insulated fountain pen comprising a section having a feed therein, a pair of concentric air spaced tubes mounted coaxially of said section and rigidly affixed thereto, the inner of said tubes constituting an ink reservoir and the outer one the barrel of the pen, a short rubber nipple closing the upper end of the reservoir, rigid means closing said barrel and enclosing said nipple, said barrel having one or more vent apertures therein.

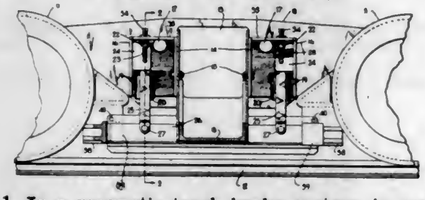
2,170,243
SPARK PLUG
Arch E. Hornback, Chicago, Ill., assignor of one-half to Owen Van Dyke, Jr., Chicago, Ill.
Application April 18, 1938, Serial No. 202,624
7 Claims. (Cl. 123—169)



1. A spark plug comprising a shell which functions as an electrode, an insulating core in the

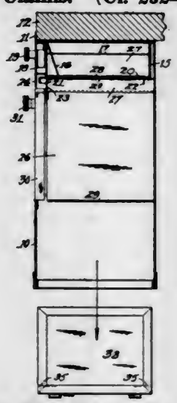
shell, a central electrode mounted in the core, a second insulating core mounted on the central electrode, and an intermediate electrode mounted on the second insulating core, the shell having a pair of semi-circular stake wires secured to and spaced from its lower edge, said stake wires being disposed in a horizontal plane approximately the same as that of the intermediate electrode.

2,170,244
MAGNETIC TRACK BRAKE
John B. Hull, Berkeley, Calif., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 31, 1937, Serial No. 156,721
6 Claims. (Cl. 188—165)



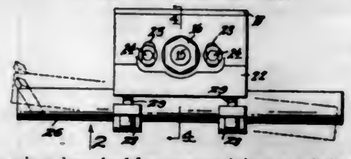
1. In a magnetic track brake system, in combination, a cross-head, bracket means having spaced side walls with complementary slots providing for the movement of said cross-head in said slots in a vertical direction in a straight line, fluid pressure operated means carried by said bracket means for moving said cross-head in a vertical direction, a magnetic track brake device, a plurality of links connecting said cross-head to said track brake device, said links being slotted at the point of connection with said cross-head to permit said track brake device and links to move relative to said cross-head.

2,170,245
SAFETY BILL HANDLING CHEST
Robert E. Jackson, Dedham, Mass.
Application May 27, 1937, Serial No. 145,157
8 Claims. (Cl. 232—1.4)



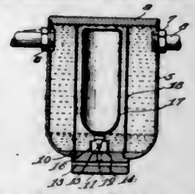
8. In a cash drawer for bills, the combination with a casing, of a drawer therein provided with spaces for bills, each space being open at the bottom to allow the bills to drop therefrom, an independent bottom for each space, movable only in a straight line, and a downwardly extending flange on the front end of each bottom located outside the front of the drawer, by which any bottom can be moved outwardly for emptying a space when the drawer is closed.

2,170,246
BORING BAR HOLDER
Adolph W. Kleiner, Worcester, Mass.
Application April 4, 1938, Serial No. 199,874
1 Claim. (Cl. 82—36)



A boring bar holder comprising a plate adapted to be centered over a T-slot and held with respect thereto, a boring bar holder resting on and centered on said plate, a bolt extending through the plate and boring bar holder for fixing the boring bar in position, a nut for the bolt, whereby, when the nut of said bolt is loosened the boring bar can be turned on the axis of said nut, said plate having in its upper surface two series of concentric screw threaded holes, one hole of each series being diametrically opposite one hole of the other series and two bolts extending through and supported by the boring bar holder and extending into any two of said holes which are located opposite each other to fix the boring bar holder in any angular adjusted position.

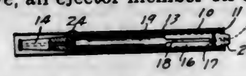
2,170,247
WATER TRAP FOR GASOLINE PIPE LINES, ETC., AND FOR ALL STORAGE TANKS AND TANK CARS
Richard A. Lambert, Tacoma, Wash.
Application November 30, 1937, Serial No. 177,356
1 Claim. (Cl. 210—166)



A water trap for gasoline pipe lines comprising a chamber having opposed ports adjacent its upper end for connection with the pipe line and a threaded opening in the bottom thereof, a nut threaded in the bottom opening of said chamber having its inner end flush with the inside bottom of the chamber and its head disposed outside the bottom of the chamber, said nut having a transverse passage in its head opening through the sides thereof which communicates with a central vertical passage in the inner end of the nut communicating with said chamber, a valve seat at the upper end of the vertical passage in said nut, a guide collar surrounding said valve seat, a float disposed in said chamber, a screen tube surrounding said float and extending longitudinally of said chamber, and a needle valve attached to the lower end of said float adapted to engage with said valve seat when the float is lowered.

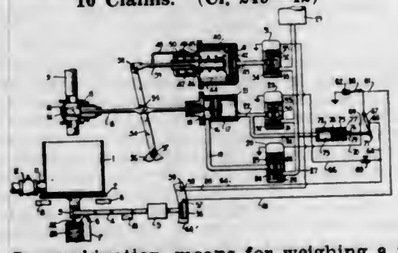
2,170,248
CIGARETTE HOLDER
Arthur T. McWane, Birmingham, Ala.
Application February 12, 1938, Serial No. 190,194
4 Claims. (Cl. 131—182)

1. A cigarette holder comprising an outer sleeve having a contracted opening at one end to hold a cigarette to be smoked, an inner sleeve telescoping within the outer sleeve, a filter and filter holder fitting into the end of the inner sleeve adjacent the contracted opening in the outer sleeve, an ejector member on the outer end



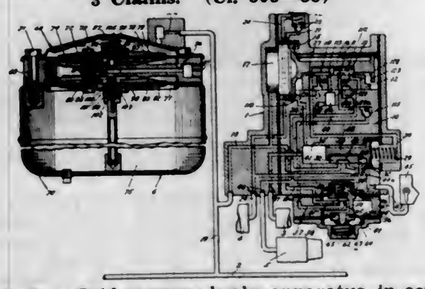
of the filter holder, and a mouthpiece on the other end of the inner sleeve, the combined length of the mouthpiece, inner sleeve, and filter holder when assembled being approximately equal to the length of the outer sleeve.

2,170,249
AUTOMATIC WEIGHING DEVICE
George W. Misner, East McKeesport, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application May 22, 1937, Serial No. 144,218
10 Claims. (Cl. 249—42)



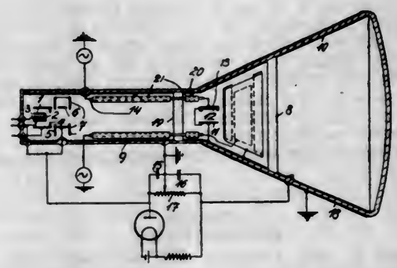
1. In combination, means for weighing a predetermined quantity of matter, valve means for supplying matter to be weighed to the weighing means, a movable abutment adapted to be operated by fluid under pressure for moving said valve means to a position for supplying matter to said weighing means, another movable abutment adapted to be operated by fluid under pressure for moving said valve means to another position for closing off the supply of matter to said weighing means, manually controlled means for supplying fluid under pressure to move the first named abutment, and means automatically operative upon a predetermined loading of said weighing means with matter to supply fluid under pressure to the second named abutment for effecting movement thereof.

2,170,250
BRAKE CONTROL MEANS
John W. Rush, Wilkinsburg, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application October 7, 1937, Serial No. 167,734
3 Claims. (Cl. 303—83)



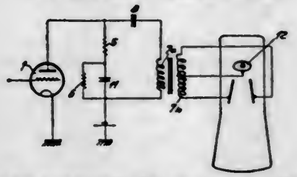
1. In a fluid pressure brake apparatus, in combination, a brake pipe, a brake cylinder, a brake controlling valve device comprising valve means operative in service position to control the supply of fluid under pressure to the brake cylinder and including quick service means functioning in response to an initial reduction in brake pipe pressure to vent fluid under pressure from said brake pipe through a quick service communication to a bulb having a restricted atmospheric port and then to vent fluid under pressure from said brake pipe through said communication to the brake cylinder, means adapted to be operated to effect the graduated release of the brakes, and quick service cut-off valve mechanism operative upon a predetermined increase in the pressure of fluid in the brake cylinder to close said quick service communication for insuring against undesired quick service action of said quick service means during a graduated release of the brakes, and an auxiliary quick service valve device separate from said quick service means in the brake controlling valve device and operative independently of said means, said auxiliary device being responsive to any and every reduction in the pressure of fluid in said brake pipe for locally venting fluid therefrom to insure prompt movement of the brake controlling valve device to service position, said auxiliary quick service valve device cooperating with the first-named quick service means for effecting a greater initial quick service reduction in brake pipe pressure than is effected upon subsequent reductions.

2,170,251
TELEVISION TUBE
Kurt Schlesinger, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application November 2, 1934, Serial No. 751,190
In Germany November 8, 1933
17 Claims. (Cl. 250—27)



1. A cathode ray tube comprising an evacuated envelope enclosing a cathode and an anode mounted in operative relationship thereto for producing a cathode ray, a control electrode mounted in the vicinity of said cathode for controlling the intensity of said cathode ray, a picture receiving screen, an electrostatical electron-optical system for focussing the cathode ray onto said screen, two deflecting systems mounted between said anode and said screen for deflecting the cathode ray in two directions perpendicular to one another for the purpose of scanning said screen, each of said deflecting systems comprising two deflecting plates, and connecting leads for said deflecting plates, said leads extending in the direction of the tube axis and being provided with a cover of insulating material.

2,170,252
TRANSFORMATION OF RELAXATION OSCILLATIONS
Kurt Schlesinger, Berlin, Germany, assignor to Radioaktiengesellschaft D. S. Loewe, Berlin-Steglitz, Germany
Application July 10, 1937, Serial No. 152,949
In Germany July 16, 1936
6 Claims. (Cl. 250—27)

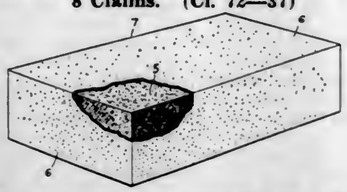


1. An arrangement for producing the deflecting voltage of saw-tooth wave form for deflecting the cathode ray in cathode ray tubes for television and the like comprising a relaxation generator, an amplifier, a transformer having a primary winding being connected via a condenser to the output of said amplifier, and a secondary winding being connected with the deflecting elements of said cathode ray tube, the input of said amplifier being connected with the said generator, means for integrating the potential occurring at the output of said amplifier, means for superimposing the said integrated potential on the output potential of the amplifier.

2,170,253
METHOD OF MAKING WATER-SOLUBLE CAPSULES FOR COSMETIC PURPOSES
Karl Wilhelm Schmidt, Nuremberg, Germany
No Drawing. Application March 8, 1938, Serial No. 194,641. In Germany November 26, 1937
1 Claim. (Cl. 167—85)

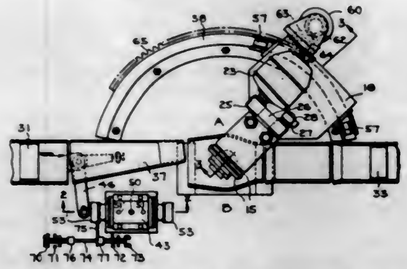
A method of making water soluble capsules for cosmetic purposes, in which the content of the capsules is of easily volatile products, which consists in forming urea to the shape of a capsule, and subjecting the urea when so formed to capsule shape to a pressure of at least 1000 kg/cm², to render the particles of urea forming the walls of the capsule impervious to the passage of volatile products, without destroying the inherent solubility of the capsule in water for exposing to the water the contents of the capsule.

2,170,254
REFRACTORY
Gilbert E. Seil, Cynwyd, Pa., assignor to E. J. Lavino and Company, Philadelphia, Pa., a corporation of Delaware
Original application July 1, 1937, Serial No. 151,460. Divided and this application November 19, 1937, Serial No. 175,503
8 Claims. (Cl. 72—37)



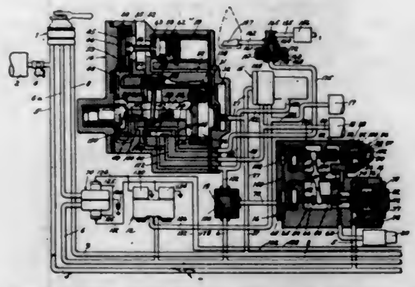
1. A refractory construction unit having a dried but unfired, water-proof and cementatory adhering coating which coating includes a water insoluble base.

2,170,255
SHEARING OF MATERIAL
John W. Sheperdson, Worcester, Mass., assignor to Morgan Construction Company, Worcester, Mass., a corporation of Massachusetts
Application May 25, 1937, Serial No. 144,653
11 Claims. (Cl. 164—61)



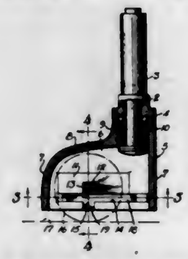
1. Shearing apparatus comprising a frame, a pair of rotatable shafts mounted in the frame with their axes horizontal and located in a common vertical plane, means to rotate the shafts continuously in opposite directions, a pair of cooperating shear disks mounted on the shafts, means to move a bar of material longitudinally in a horizontal direction adjacent to the disks, means to move the bar laterally in a horizontal plane between the disks first in one direction and then in the opposite direction without interrupting its longitudinal movement, means to support the frame for a swinging movement about a vertical axis extending through the cutting edges of the disks and intersecting their axes, a stationary gear segment having its center on said vertical axis, an electric motor mounted on the frame, and gearing connecting the motor with the gear segment, said motor being arranged to swing the frame before each such lateral movement of the bar in each direction and bring the disks into a position such that they are at an obtuse angle with the on-coming portion of the bar.

2,170,256
AUTOMATIC FUEL-CONTROL DEVICE
Carlton D. Stewart, Swissvale, Pa., assignor to The Westinghouse Air Brake Company, Wilmerding, Pa., a corporation of Pennsylvania
Application July 31, 1937, Serial No. 156,713
12 Claims. (Cl. 192—3)



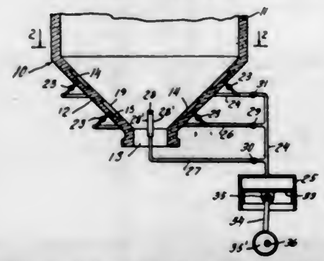
1. In a fuel supply system for the furnace of the boiler of a locomotive, fuel feeding means for supplying fuel to said furnace, braking means for the locomotive, and means responsive to operation of the brake equipment to produce a heavy application of the brakes on the locomotive to reduce the supply of fuel to the furnace by said fuel feeding means to a predetermined relatively slow rate.

2,170,257
CASTER
Niels Yde Andersen, Kenmore, N. Y., assignor to Remington Rand Inc., Buffalo, N. Y.
Application February 4, 1937, Serial No. 124,065
5 Claims. (Cl. 16—31)



1. A caster, comprising a stem, a housing mounted on said stem having side walls, one or more end walls and open at the bottom, a wheel within said housing having only a minor peripheral portion projecting outwardly beyond the bottom of said side walls for peripheral surface contact with a supporting surface, an axle extending transversely between said side walls rotatably mounting said wheel, projections extending inwardly on the inner faces of said side walls forming sockets for receiving the ends of said axle at opposite sides of said wheel, and means locking said axle ends in said sockets.

2,170,258
METHOD AND APPARATUS FOR HANDLING POWDERED MATERIAL
Niels Sofus Borch, Copenhagen, Denmark, assignor to F. L. Smidth & Company, New York, N. Y., a corporation of New Jersey
Application August 26, 1937, Serial No. 160,954
In Great Britain August 27, 1936
2 Claims. (Cl. 221—124)

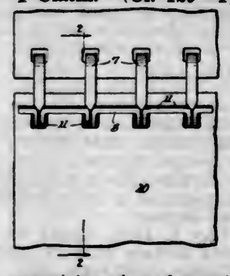


1. Apparatus for handling powdered material comprising a container having a discharge opening, an expansible and contractible chamber disposed in the mouth of the opening and spaced on all sides from the surrounding walls of said opening, a fluid-containing system of which said chamber forms a part, a pressure fluid in said system, and means which also forms part of said fluid-containing system for alternately increasing and decreasing the pressure on said fluid to vibrate at least one of the walls of said chamber, said fluid being completely and constantly confined in said system.

2,170,259
PROCESS FOR THE INTRODUCTION OF GRAPHITIC CARBON INTO LIGHT METALS OR LIGHT METAL ALLOYS
Heinrich Borofski, Frankfort-on-the-Main, Germany, assignor of one-half to the firm Mettmanner Britannia-Warenfabrik W. Seibel, Mettmann, Rhineland, Germany
No Drawing. Application December 30, 1937, Serial No. 182,544. In Germany January 9, 1936
16 Claims. (Cl. 75—135)

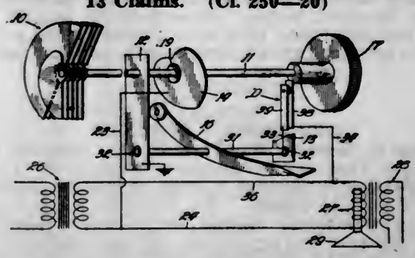
1. Process for graphiting light metals which comprises mixing graphitic carbon with a decomposable metal compound, introducing such mixture into a melt of said light metal and bringing about decomposition of said metal compound with liberation of metal in close association with said carbon.

2,170,260
RING BINDER
Charles C. Cruzan, Poughkeepsie, N. Y., assignor to Trussell Manufacturing Company, Poughkeepsie, N. Y., a corporation of New York
Application November 3, 1936, Serial No. 108,917
1 Claim. (Cl. 129—1)



A binder comprising ring elements of flat sheet material, flexibly connected together in spaced relation, said rings being split at one end and said split ends of adjoining rings being connected together by separate individual short connecting bars of the same integral flat sheet material and whereby the split portions of the various rings may flex individually to render the binder flexible as a whole.

2,170,261
RADIO SPEAKER CONTROL STRUCTURE AND CIRCUIT FOR USE WITH AUTOMATIC TUNING DEVICES FOR RADIO RECEIVERS
William L. Dunn, Chicago, Ill., assignor to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application January 6, 1938, Serial No. 183,577
13 Claims. (Cl. 250—20)



6. A radio receiving set including a variable tuner and automatic tuning means for operating the tuner including a member actuated to operate the tuner and which reaches its fully actuated

position only as the tuning is completed, and a muting circuit including said member therein closed by this member as the tuning begins and opened by this member as the tuning is completed, said muting circuit rendering the receiving set inoperative to reproduce the received signals.

2,170,262

DERIVATIVES OF DYESTUFFS CONTAINING HYDROXYL GROUPS AND PROCESS OF MAKING SAME

Charles Graenacher, Basel, Franz Ackermann, Binningen, near Basel, and Heinrich Bruenger, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application July 23, 1936, Serial No. 92,244. In Switzerland August 17, 1935
15 Claims. (Cl. 260—192)

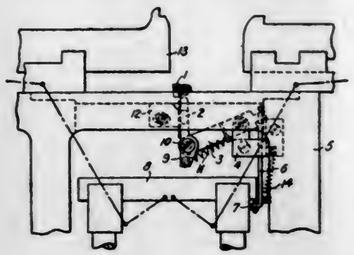
1. Process for the manufacture of derivatives of dyestuffs containing at least one hydroxyl group, comprising causing dyestuffs which contain no substituents from the group consisting of carboxyl groups and sulfonic groups to react in the presence of pyridine with halides of organic acids which contain more than one salt-forming group selected itself from the group consisting of carboxyl groups and sulfonic groups.

2,170,263

CASTING MECHANISM OF TYPOGRAPHICAL COMPOSING MACHINES

Vernon Charles Joseph Harrison, Timperley, England, assignor to Linotype and Machinery Limited, London, England, a limited-liability company of Great Britain

Application July 8, 1938, Serial No. 218,107
In Great Britain July 17, 1937
5 Claims. (Cl. 199—62)



1. A typographical slug casting machine comprising matrix line clamping jaws and automatically operated means for periodically wiping a jaw clamping face, said wiping means being normally arranged out of contact with said jaw face.

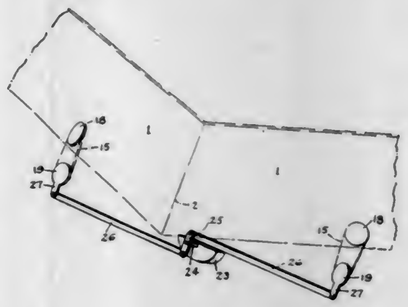
2,170,264

WINDSHIELD CLEANER

Erwin C. Horton, Hamburg, N. Y., assignor to Trico Products Corporation, Buffalo, N. Y.

Application September 2, 1936, Serial No. 99,066
14 Claims. (Cl. 15—255)

1. A windshield cleaner for a motor vehicle, comprising a unit mountable and demountable as a whole and having a wiper shaft, means for supporting the shaft substantially normal to the windshield, said means having a part for mounting the same exteriorly of the vehicle and a second part extending interiorly of the vehicle, a second shaft supported by said second part at an angle to said wiper shaft, and a flexible pull member directly connecting the angularly related



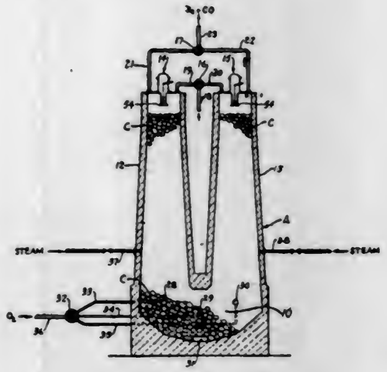
shafts, said second shaft having a part connectible to a source of power for being operated thereby.

2,170,265

PROCESS FOR PRODUCING HYDROGEN-ENRICHED GAS MIXTURES

Ernst Karwat, Grosshesselohe, near Munich, Germany, assignor to The Linde Air Products Company, a corporation of Ohio

Application May 6, 1936, Serial No. 78,294
In Germany May 11, 1935
9 Claims. (Cl. 23—212)



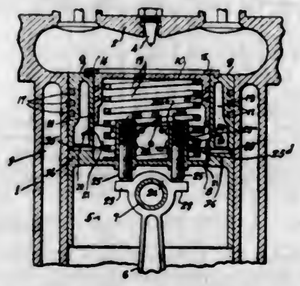
1. Process for converting hydrocarbon gas to carbon monoxide and hydrogen which comprises passing dry hydrocarbon gas in one direction through a confined and continuous heated body of coke, the intermediate zone of said body being maintained at a higher temperature than the end zones thereof; supplying sufficient oxygen to said intermediate zone to react with such hydrocarbon gas and produce hydrogen and carbon monoxide; and periodically reversing the direction of flow of hydrocarbon gas through said body, to preheat the incoming hydrocarbon before it reaches the intermediate zone and to abstract heat from the conversion products after they leave the intermediate zone.

2,170,266

PISTON FOR INTERNAL COMBUSTION ENGINES

Edward E. Leissner, New York, N. Y., assignor of one-half to Arthur J. Schossberger, New York, N. Y.

Application June 12, 1937, Serial No. 147,813
8 Claims. (Cl. 123—78)
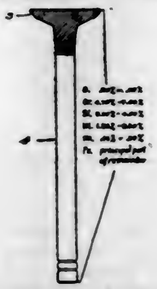


1. In an internal combustion engine, a hollow, double-headed piston having a pump for sucking air and oil, thereby dissipating the heat thereof.

2,170,267

ALLOY STEEL

George R. Rich, Battle Creek, Mich., assignor to Rich Manufacturing Corporation, Battle Creek, Mich., a corporation of Michigan

Application June 17, 1938, Serial No. 214,198
1 Claim. (Cl. 75—128)



An alloy steel of high tensile strength for the manufacture of motor valve parts and composed of the following ingredients in and about the following proportions, carbon .32%, chromium, 5.50%, silicon 3.25%, nickel 2.42%, manganese .80%, sulphur .025%, phosphorus .025% and the remainder being iron.

2,170,268

ALLOY STEEL FOR THE MANUFACTURE OF MOTOR VALVES

George R. Rich, Battle Creek, Mich., assignor to Rich Manufacturing Corporation, Battle Creek, Mich., a corporation of Michigan

No Drawing. Application March 17, 1939, Serial No. 262,447
1 Claim. (Cl. 75—128)

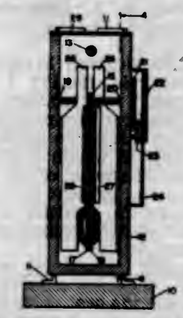
An alloy steel for the manufacture of articles capable of continued efficient use at high temperature composed of carbon 0.25 per cent, chromium 6.25 per cent, silicon 3.25 per cent, nickel 1.90 per cent, manganese 1.00 per cent, sulphur 0.025 per cent, phosphorus 0.025 per cent and iron the remainder.

2,170,269

GRADE METER

Lawrence Henry Schoenleber, Clarinda, Iowa

Application February 23, 1939, Serial No. 257,957
3 Claims. (Cl. 33—220)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



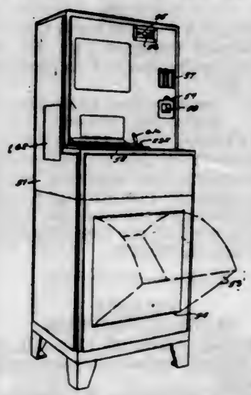
1. A grade meter comprising vertical uprights, a horizontal rod mounted on said uprights, a liquid container suspended on said rod between said uprights, a horizontal shaft perpendicular to said rod rotatably mounted between the sides of said container, one end of said shaft extending through the container, a pendulum fixed to and suspended from said shaft in said container, fins slidably secured to the sides of said pedulum, a dial secured to the outside face of said container through which said shaft extends, a pointer rotatably mounted over said dial and means responsive to said shaft for actuating said pointer.

2,170,270

COIN OPERATED MAILING MACHINE

Linden A. Thatcher, Cocoob, Conn., assignor to Pitney-Bowes Postage Meter Company, Stamford, Conn., a corporation of Delaware

Application December 2, 1937, Serial No. 177,671
23 Claims. (Cl. 194—83)



1. In a coin operated value stamp printing machine, a value stamp printing device including an adjustable value type member, a coin receiving member including means to support a plurality of coins in a row therein, movable means engageable with each of the coins successively to remove same from the receiving member, and means for setting the type members, said last named means being connected with the type members and being

positioned for engagement by each coin when moved by the movable means from the receiving member.

2,170,271
STARCH COMPOSITION AND PROCESS
James F. Walsh, Chicago, Ill., and Willard L. Morgan, Cranston, R. I., assignors to American Maize-Products Company, a corporation of Maine
No Drawing. Application March 5, 1938, Serial No. 194,172
8 Claims. (Cl. 127—33)

1. A starch composition comprising starch and a water soluble acid salt of an amide containing the radical $CO.NH_2.R$ in which R is an acid having a dissociation constant of at least about 1×10^{-2}, said salt being present in sufficient proportion so that when the mixture is heated with water said salt will have a substantial thinning action on the starch.

2,170,272
STARCH COMPOSITION
James F. Walsh, Chicago, Ill., and Willard L. Morgan, Cranston, R. I., assignors to American Maize-Products Company, a corporation of Maine
No Drawing. Application March 5, 1938, Serial No. 194,173
8 Claims. (Cl. 127—33)

8. A process of producing a starch paste of relatively high starch solids content and relatively low consistency, comprising making an aqueous suspension of starch and a relatively strong solid acid salt of an amino acid having the general formula

$$XNA_1CH-COOH$$
$$\quad\quad|$$
$$\quad\quad R$$

in which R is a hydrogen, an aliphatic, or aryl alkyl radical, X is a strong acid radical, and A is hydrogen or alkyls, and heating said suspension until a starch paste of desired consistency is obtained.

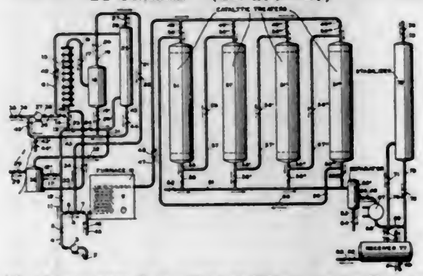
2,170,273
ADHESIVE COMPOSITION
Willard L. Morgan, Calumet City, Ill., assignor to American Maize-Products Company, a corporation of Maine
No Drawing. Application December 14, 1937, Serial No. 179,663
6 Claims. (Cl. 134—23.8)

1. A liquid water soluble protein adhesive composition comprising an aqueous solution of a water soluble adhesive protein and a water soluble aliphatic alkylolamine lactate, the latter imparting to a coating made from the adhesive composition softness and flexibility.

2,170,274
BAKING POWDER
Willard L. Morgan, Calumet City, Ill., assignor to American Maize-Products Company, a corporation of Maine
No Drawing. Application December 18, 1937, Serial No. 180,499
10 Claims. (Cl. 99—95)

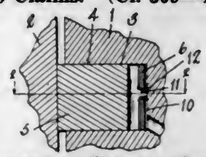
1. A baking powder containing as an acid constituent, a substance represented by the formula $C_6H_6(PO_4)_6X$ in which X is a member of the group consisting of hydrogens, sodium, potassium, ammonium, calcium, magnesium, aluminum and a combination of hydrogens with any of said other members of said group.

2,170,275
CONVERSION OF HYDROCARBONS
Edwin F. Nelson, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application May 31, 1938, Serial No. 210,899
14 Claims. (Cl. 196—10)



13. A process for polymerizing normally gaseous olefins which comprises passing the olefinic gas under polymerizing conditions through successive masses of polymerizing catalyst whose catalytic activity progressively decreases in the direction of flow of the gas therethrough.

2,170,276
INNER PISTON EXPANDING SPRING
Harold P. Phillips, Hastings, Mich., assignor to Hastings Manufacturing Company, Hastings, Mich.
Application October 31, 1938, Serial No. 237,803
8 Claims. (Cl. 309—43)

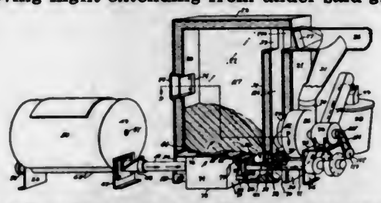


1. An inner expanding member for a piston ring of the compression type, comprising a thin strip of ribbon steel having a plurality of sides adapted to engage the bottom of a piston ring groove and a plurality of bowed piston ring engaging parts spacing said sides, said member having perforations struck in said sides from the outer periphery thereof to provide inwardly projecting sharp corners or burrs adapted to engage the bottom of the groove and prevent rotation of the ring therein, said perforations being omitted from the sides adjacent the split in the ring to allow freedom of the last named sides for sliding action.

2,170,277
STOKER AND FURNACE THEREFOR
Max C. Richardson, Portland, Oreg., assignor to Iron Fireman Manufacturing Company, Portland, Oreg.
Application September 21, 1936, Serial No. 101,800
6 Claims. (Cl. 110—45)

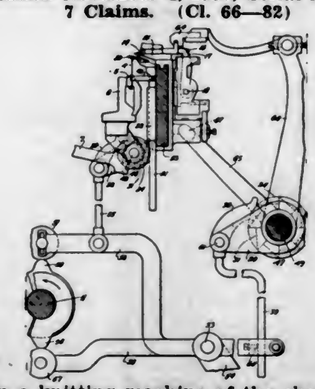
1. In a device of the class described, the combination of a furnace having a bridge wall across one end thereof adapted to form a combustion chamber on one side of said bridge wall and a down draft passage on the other side of said bridge wall, said wall extending upwardly and terminating near the upper part of the furnace, an ash gate forming a closure for the bottom end of said down draft passage, said gate consisting of a revolvable fluted member, a retort at the end of said combustion chamber opposite said bridge

wall, stepped shaker grates between said retort and bridge wall, a duct extending through said furnace and retort and below said grates and ash gate, said duct being cut away on its top side to admit ashes thereto, a revolvable conveying element within said duct consisting of a coal conveying screw flight extending from one end of said duct to the near side of said retort, an ash removing flight extending from under said grates



to an ash outlet, a reversed flight secured between said coal and ash flights, the junction of said coal and reverse flights being at the bottom of the retort and consisting of a diagonal bar connecting the adjacent ends of the reversely wound flights, a lever hinged at one end to a support and at the other end to the shaker grates and a cam on the axis of said conveyor for actuating said lever in a manner to reciprocate said grates as the conveyor is turned.

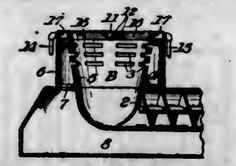
2,170,278
KNITTING MACHINE
Wolfgang David Richter, Jr., Southampton, Pa.
Application November 4, 1936, Serial No. 109,084
7 Claims. (Cl. 66—82)



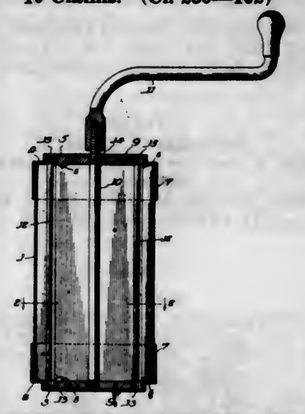
1. In a knitting machine of the character described, a series of needles, cooperating sinkers, means for operating said needles and sinkers to perform the operation of knitting successive fabric courses, and cam means for moving said series of needles longitudinally of the machine comprising a rotatable and axially movable cam having end stepped cam surfaces, fixed means engaging said cam surfaces, means engaging said cam mounted for movement in the axial direction of the cam, means connecting said last mentioned means to the series of needles, and means for rotating said cam.

2,170,279
STOKER
Joseph R. Robinson, Pittsburgh, Pa.
Application December 17, 1937, Serial No. 180,287
8 Claims. (Cl. 110—45)

1. In combination with the unitary air supply combustion fire bowl of a fuel supply member, an upper separately attached transverse fuel separator consisting of a plurality of integral hollow downwardly and inwardly tapering cross bars extending over the bowl above its air supply providing separated fuel emergence openings and having fluid circulation supply and outlet connections and removably laid over the rim of the fire bowl above its air supply.



2,170,280
CHURN
John H. Sharp, Chicago, Ill.
Application October 10, 1938, Serial No. 234,089
10 Claims. (Cl. 259—102)

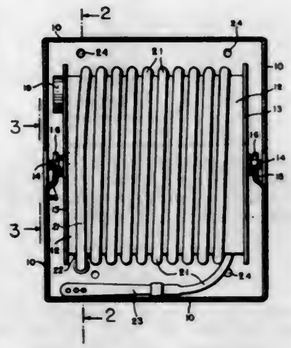


1. In a mixing device of the kind described, a container having a removable top, an agitating unit arranged within the container consisting of a pair of spaced members connected together and journaled in the ends of the container and constituting the blade carrier, a plurality of blades pivotally mounted on said carrier and rotatable therewith about a common axis, each of said blades independently rotatable about its own axis in said carrier, and means arranged on one end of the container operative to successively engage the blades during the movement of the carrier about said common axis whereby each blade is independently and intermittently rotated about its own axis while revolving about the common axis.

2,170,281
CABINET SYRINGE
Ross C. Snow, New York, N. Y.
Application May 27, 1936, Serial No. 82,009
6 Claims. (Cl. 128—227)

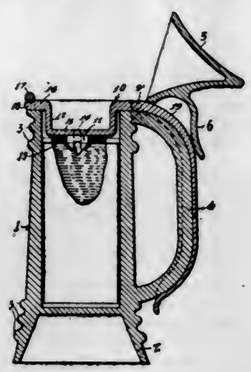
6. A syringe for personal hygienic use comprising, in combination, a cylindrical drum adapted to contain a washing or an antiseptic liquid, said drum having air venting means, a flexible dispensing hose having one end thereof connected with the drum at a low liquid-level position to draw liquid therefrom by gravity, and a nozzle aperture at the other end of the hose adapted for personal hygienic use, the outer cylindrical surface of said drum adapted as a reel

upon which to conveniently wind the hose; and mounting means to rotatably support the drum-and-hose reel in service position, to enable the



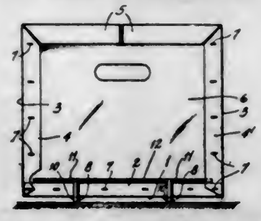
user to conveniently unwind the hose and draw the liquid from the drum for hygienic use and to rewind the hose thereupon after use.

2,170,282
DRINKING DEVICE
Marinus A. Van der Spek, Manhattan Beach, Calif.
Application October 19, 1936, Serial No. 106,332
11 Claims. (Cl. 65—61)



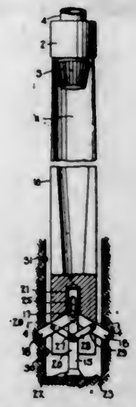
1. A drinking device for use with a can containing a beverage, said device comprising a container interiorly shaped and dimensioned to receive and support said can and a detachable top for said container, said top comprising a tubular member having a depth and diameter of the same order of magnitude as the depth and diameter of a drinking cup and having a smooth upper rim portion like the rim of a drinking cup for presentation to the lips of the drinker like the rim of a drinking cup and having can-piercing means extending below said tubular member for piercing the top of a can in said container in response to placing the said top on said container, said top having resilient sealing means on the lower end of said tubular member for effecting a seal between the latter and the upper end of the can, said can-piercing means being positioned inside of said sealing means.

2,170,283
SKID ATTACHMENT FOR CONTAINERS
Benjamin M. Williams and Joseph C. Thompson, St. Louis, Mo., assignors to Gaylord Container Corporation, St. Louis, Mo., a corporation of Maryland
Application October 10, 1938, Serial No. 234,132
4 Claims. (Cl. 229—6)



1. A skid attachment for containers having end walls and side flanges overlapping said end walls and secured thereto, said skid attachment comprising runners having upturned end portions and transverse strips secured to said end portions and long enough that their ends extend into spaces between said end walls and flanges.

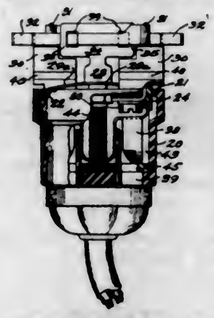
2,170,284
WHIP-STOCK BOTTOM
Harlan John Eastman, Dallas, Tex.
Application October 28, 1937, Serial No. 171,467
1 Claim. (Cl. 255—1)



A removable type whipstock including a collar, a body, a deflecting face, a plurality of blades carried by said body, a plunger connected to said blades, a foot on said plunger to contact the bottom of the well bore, said plunger being slidable to extend said blades, said plunger connection including links.

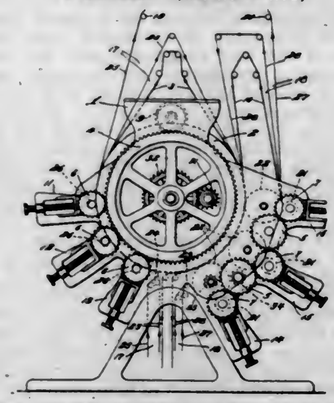
2,170,285
DETACHABLE COLLECTOR
Lyman C. Fisher and William H. Frank, Detroit, Mich.
Application September 25, 1937, Serial No. 165,608
8 Claims. (Cl. 173—328)

1. A detachable collector of the character described comprising a carrier, main contacts thereon, means journalled in the carrier for moving the contacts relatively, to spread them or draw them closer, a cup capped by the carrier for moving the means, and auxiliary contacts carried by the carrier and disposed within the cup,



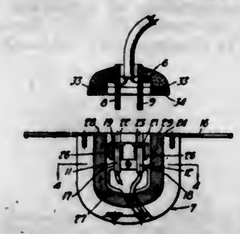
the latter having openings providing access through the cup to such auxiliary contacts.

2,170,286
TEXTILE PRINTING MACHINE
Harry Hintze, Rock Hill, S. C., and James J. Dolphi, Cranston, R. I.
Application May 8, 1936, Serial No. 78,658
Renewed June 29, 1938
6 Claims. (Cl. 101—178)



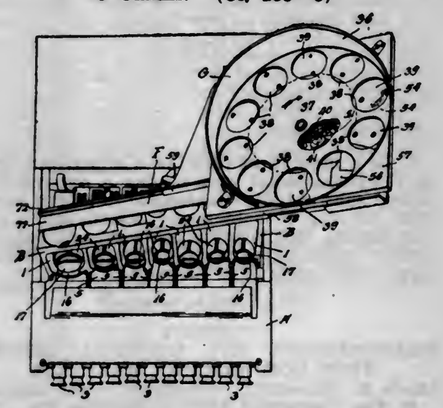
1. In a textile printing machine for simultaneously printing a plurality of separate webs, a main impression cylinder, a set of printing cylinders spaced along the outside of the periphery of one portion of said main impression cylinder in frictional contact therewith, means to guide a web from below said machine into a position between the main impression cylinder and said set of printing cylinders, and means to guide said web away from the top of said machine, a series of auxiliary impression cylinders spaced along the outside of the periphery of another portion of said main impression cylinder to be frictionally driven thereby, a set of printing cylinders spaced along the outside of the periphery of said other portion of the main impression cylinder in frictional contact with said auxiliary impression cylinders, means to guide a supplemental web from below said machine into a position between the auxiliary impression cylinders and said contacting set of printing cylinders, and means to guide said supplemental web away from the top of said machine, means to rotate one of said cylinders to additionally cause rotary movement of said other cylinders and means to synchronize the speed of all printing cylinders of each set.

2,170,287
DETACHABLE ELECTRICAL CONNECTOR
Walter L. Kinnebrew, Emeryville, Calif.
Application June 14, 1937, Serial No. 148,017
4 Claims. (Cl. 173—330)



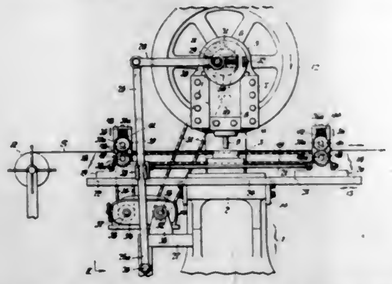
3. A detachable electric connector comprising, a pair of members cast from a plastic material or the like and having opposed plane abutting surfaces, a U-shaped recess in one member extending substantially normal to said surface and a permanent horseshoe magnet mounted therein and having the terminal ends thereof mounted at said surface, an annular recess in said plane surface of the other member in alignment with said first recess and a magnetic keeper mounted therein for engagement with the terminal ends of said magnet, a pair of electrical contacts mounted in one member within the area defined by said U-shaped magnet, and a cooperating pair of contacts in the other member and mounted in the area defined within said annular keeper and adapted to engage said first contacts on attachment of said members.

2,170,288
COIN FEEDING APPARATUS
James Kiss, Bethlehem, Pa.
Application May 18, 1936, Serial No. 80,433
6 Claims. (Cl. 133—3)



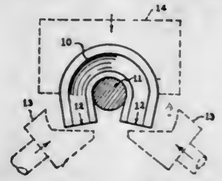
6. In a money handling machine, a coin feeding unit comprising a receptacle for coins, a coin feeding member in said receptacle, an electric motor for operating said feeding member, an electric circuit including the feeding member and said motor, and contact devices coacting with the feeding member and arranged in spaced relation thereto so as to be conductively connected with the feeding member by coins deposited in the receptacle thereby to close the electric circuit and effect operation of the motor to actuate the feeding member.

2,170,289
MECHANISM FOR FEEDING SHEET MATERIAL AND THE LIKE
Francis Klingler, Riverside, N. J., assignor to Super Speed Press Corporation, New York, N. Y., a corporation of Delaware
Application September 23, 1937, Serial No. 165,279
14 Claims. (Cl. 164—88)



1. Mechanism for feeding sheet material and the like, comprising a pair of opposing feed rolls for respectively engaging the opposite sides of the material, means for bodily reciprocating the rolls in the line of feeding, and means for concurrently driving the rolls so that they cooperate in advancing the material as they are bodily moved in one direction but roll idly along the material as they are bodily moved in the other direction.

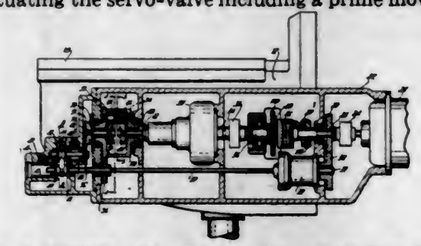
2,170,290
CLINCH NUT AND METHOD OF FORMING SAME
Harold G. Renner, Detroit, Mich.
Application July 8, 1937, Serial No. 152,597
7 Claims. (Cl. 10—86)



1. In a method of forming a clinch nut from an elongated metal strip having a riveting projection substantially coextensive in length therewith, the step of fashioning the strip into a split ring having said riveting projection at one side thereof, while imparting a substantially circular form to the opening of the ring.

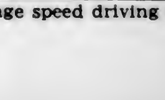
2,170,291
TRANSMISSION AND CONTROL MECHANISM FOR MILLING MACHINES
Mario E. Martellotti, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application September 9, 1938, Serial No. 229,139
9 Claims. (Cl. 90—21)

1. In a milling machine having a column, a cutter spindle journaled in the column, a work supporting table, a knee carried by the column and supporting the table for two-directional movement relative to the cutter spindle, the combination of transmission means for effecting movement of the table, including a rotary hydraulic motor, a servo-control valve for the motor, a power train connecting the motor to the table, and means carried by the knee for actuating the servo-valve including a prime mover



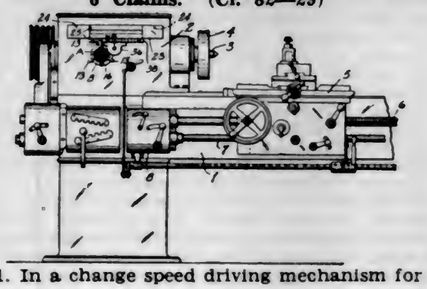
and a stepless rate changer for connecting the prime mover to the valve.

2,170,292
LINE TIGHTENER
Willis J. Boudreau, Minneapolis, Minn., assignor of one-third to Harry C. Whitmore and one-third to Robert G. Peterson, both of Minneapolis, Minn.
Application May 5, 1938, Serial No. 206,178
1 Claim. (Cl. 24—71)



A line tightener formed of a single piece of wire bent to provide an elongated loop, the end portions of the wire forming one of the sides of the loop being overlapped and outwardly bent to provide a second elongated loop, said two loops being arranged in the form of a T, the end portions of the wire at the outer end of the second noted loop being overlapped in opposite directions substantially parallel to the first noted loop and materially beyond the sides of the second noted loop, one end portion of the wire being bent substantially parallel to the second noted loop and outwardly of one side thereof to afford a handle member, said two loops and the handle member being substantially in the same plane, the other end portion of the wire being bent to provide a substantially U-shaped member that is perpendicular to the plane of the second noted loop and again bent to provide a substantially S-shaped member that is perpendicular to the plane of the U-shaped member, the outer arm of the U-shaped member, on the outer end of which the S-shaped member is attached, being materially longer than the inner arm of the U-shaped member.

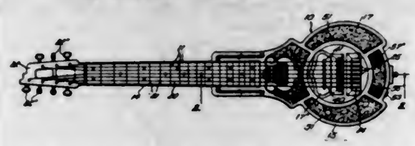
2,170,293
SETTING AND INDICATING DEVICE FOR CHANGE SPEED TRANSMISSIONS
Lionel A. Carter, Webster Groves, Mo.
Application January 22, 1936, Serial No. 60,168
6 Claims. (Cl. 82—29)



1. In a change speed driving mechanism for a

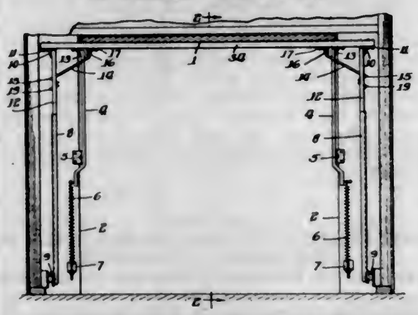
spindle, a control member for said mechanism, and a setting and indicating device for said control member, said device comprising a slidably mounted plate provided with a scale graduated to designate the different spindle speeds, an operative connection between said control member and said slidably mounted plate for sliding the latter when the former is actuated, said scale being adapted to cooperate with a stationary index for indicating the spindle speed for which said control member is set, and means whereby the desired spindle speeds may be obtained for operations on different work diameters after the device has been initially set therefor, said means comprising symbols designating the different work operations and attached to said plate opposite the graduations thereon indicating the spindle speeds required for the respective operations.

2,170,294
ELECTRICAL STRINGED MUSICAL INSTRUMENT
Rudolph Dopyera, Los Angeles, Calif.
Application April 13, 1936, Serial No. 74,058
13 Claims. (Cl. 84—1.16)



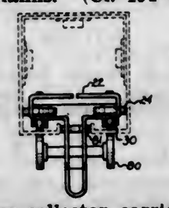
1. In a pick-up for use on a musical instrument having a vibratory string, the combination of, a relatively stationary magnet on the instrument, a relatively stationary induction coil, shiftable magnet pole pieces engaging the magnet and extending through the coil to provide a concentrated magnetic field about the string, and means for shifting the pole pieces.

2,170,295
GARAGE DOOR CONSTRUCTION
William D. Ferris, Sterling, Ill., assignor to Frantz Manufacturing Co., Sterling, Ill., a corporation of Illinois
Application May 18, 1938, Serial No. 208,624
15 Claims. (Cl. 20—16)



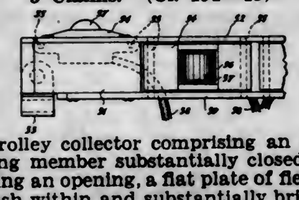
1. A garage door comprising one rigid section having a vertical closed position and a horizontal overhead open position, a pivot carried by the door, a supporting arm engaging said pivot, another pivot carried by the door, a brace connecting said arm with the second pivot, the latter being axially aligned with the first pivot, transversely of the door, and means for pivoting the other end of said arm on a stationary support.

2,170,296
TROLLEY OR COLLECTOR
William H. Frank and William A. Harper, Detroit, Mich.
Application June 20, 1935, Serial No. 27,523
4 Claims. (Cl. 191—45)



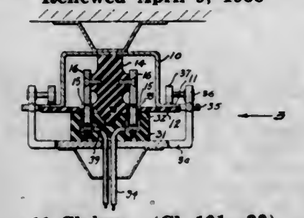
1. In a trolley collector carriage, a T-shaped sheet metal, double walled member having in its double walled horizontal portion an axle pin supported in and connecting the opposite horizontal walls thereof, and a roller on said pin between said horizontal walls and projecting through an opening in a vertical edge wall thereof which connects the aforementioned horizonal walls.

2,170,297
TROLLEY OR COLLECTOR
William H. Frank and Lyman C. Fisher, Detroit, Mich.
Application June 8, 1936, Serial No. 84,070
Renewed December 29, 1937
5 Claims. (Cl. 191—48)



1. A trolley collector comprising an elongated supporting member substantially closed by walls and having an opening, a flat plate of flexible material flush within and substantially bridging the edges of the opening and so disposed that it is free of all other structure except at its end anchorages, and a contact supported by said plate and embedded therein and exposed to the outside of the supporting member, the opening being substantially completely closed by the assembly of the plate and contact, the contact including a metal cup containing an axle and a roller journalled therein.

2,170,298
ELECTRICAL DISTRIBUTION SYSTEM
William H. Frank, Detroit, Mich.
Application November 16, 1936, Serial No. 110,953
Renewed April 9, 1938

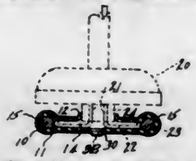


11 Claims. (Cl. 191—23)

1. A trolley duct system comprising a duct having a plurality of parallel longitudinal narrow slots in a single wall thereof and trolley supporting rails external thereof and projecting from the main body of the duct, bus bars within

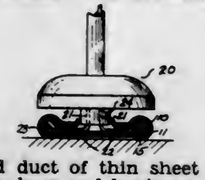
the duct and aligned with the slots, and trolleys outside the duct and having load and thrust rollers outside the duct and riding on the rails thereof and having contact rollers outside the duct and riding in the slots thereof along the bus bars.

2,170,299
CONTINUOUS OUTLET CONSTRUCTION
William H. Frank, Detroit, Mich.
Application August 4, 1937, Serial No. 157,269
9 Claims. (Cl. 173—334.1)



1. A slotted duct formed of thin sheet material and containing bus bars and having a solid wall and a slotted wall connected at their edges by portions formed around the bus bars, with the interior distance between the solid wall and the slotted wall being less than the thickness of the bus bars measured in the same direction.

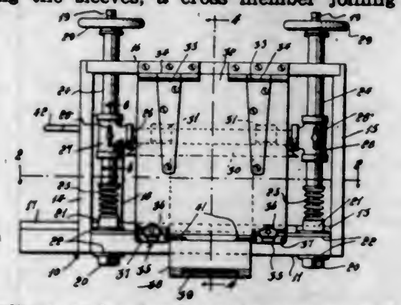
2,170,300
CONTINUOUS OUTLET CONSTRUCTION
William H. Frank, Detroit, Mich.
Original application August 4, 1937, Serial No. 157,269. Divided and this application January 3, 1938, Serial No. 183,231
15 Claims. (Cl. 173—334.1)



6. A slotted duct of thin sheet material and containing bus bars and having a flat solid wall and a flat slotted wall connected at their edges by portions formed around the bus bars, with the interior clear distance between the solid wall and the slotted wall being no greater than the thickness of the bus bars measured in the same direction, in combination with connectors outside the duct and arranged with portions within the slot of the duct and provided with laterally extending contact fingers disposed in and substantially filling the clear spaces between the solid wall and the slotted wall, these fingers being arranged to extend to the bus bars and with their ends engage the bus bars.

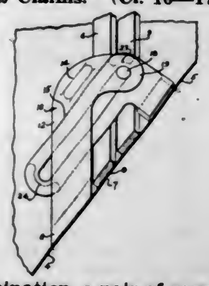
2,170,301
PADDING RACK
Eugene B. Harry, Tulare, Calif.
Application May 26, 1938, Serial No. 210,263
3 Claims. (Cl. 11—1)

3. Apparatus of the class described having a base, a frame rising from the base, a jogging wall rising from the base, a jogging wall hinged to the frame, clamping means for material positioned by the jogging members mounted on the base, and rising through the frame comprising rods fastened to the base, sleeves on the rods, clamping head means carried by the sleeves, springs surrounding the rods and on which the sleeves rest, means operable on the rods to depress the sleeves, said clamping head means comprising couplings, means to adjust the couplings along the sleeves, a cross member joining the



couplings, and a head member suspended from the cross member.

2,170,302
LOCOMOTIVE SMOKE BOX SHROUD AND HINGE THEREFOR
John L. Hearn, Upper Darby, Pa.
Application September 29, 1937, Serial No. 166,342
2 Claims. (Cl. 16—179)

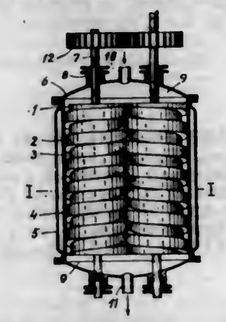


1. In combination, a pair of cooperating hinged members adapted respectively to be supported on the inner side of relatively movable substantially conical shroud portions, means for pivotally connecting said hinged members together and for allowing the same to have linear movement therebetween, one of said hinged members having a shoulder extending substantially in the direction of a plane tangent to the conical sides of said shroud portions, and means formed with the other hinged member for cooperation with said shoulder to prevent pivotal movement between said members while allowing linear movement therebetween in the direction of said tangent plane, said pivotal connection being so related to said shoulder and to said cooperating means that one of said hinged members may pivot after a predetermined extent of said linear movement.

2,170,303
APPARATUS FOR GRINDING LIQUID OR SEMISOLID SUBSTANCES
Lars Kristian Voldsgaard Helstrup, Frederiksberg, Denmark
Application November 30, 1935, Serial No. 52,355
In Denmark December 1, 1934
1 Claim. (Cl. 83—12)

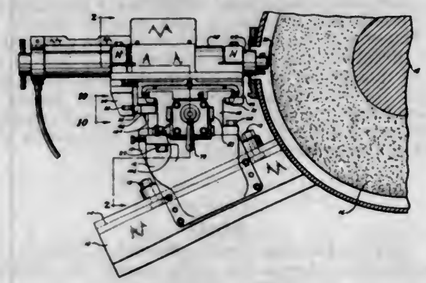
Apparatus for heating, cooling, kneading, grinding, and emulsifying liquid and semi-solid substances, comprising at least two rollers situated parallel to each other, means for rotating said rollers in opposite directions, said rollers being provided with alternate left-hand and right-hand helical grooves and threads formed

upon the outer surfaces of said rollers, the threads of one roller engaging in the grooves of another roller, a tightly fitting casing completely enclosing said rollers, whereby the helical grooves on the rollers form a number of at least partly closed spaces, means for circulating a heating or cooling medium adjacent said grooves, the thickness of the projecting threads being somewhat smaller



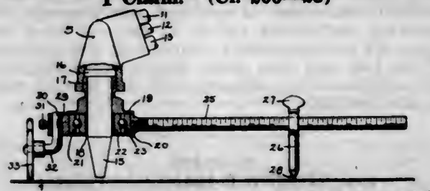
than the width of the helical grooves, so that by the mutual engagement of the threads passages are formed between the projecting threads of two co-operating rollers, and means for reciprocating one of said rollers in the direction of its axis and relatively to another roller, whereby the said surfaces of said rollers will alternately approach and recede from each other.

2,170,304
TRUING ATTACHMENT
Charles Herfurth, Cincinnati, Ohio, assignor to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application December 6, 1937, Serial No. 178,225
3 Claims. (Cl. 125—11)



1. In a truing attachment for a rotatable grinding wheel of a grinding machine, the combination of a support having a guideway lying in a radial plane with respect to the axis of the grinding wheel, a bracket mounted on said guideway for adjustment in said radial plane, a truing tool carrier, means mounted on the bracket for supporting said carrier for axial movement in a second radial plane intersecting the first radial plane at the axis of the grinding wheel including a slide and a saddle, said saddle having means for guiding the slide and carrier along a path lying in said second radial plane but parallel to the axis of the grinding wheel, a pivotal connection between the saddle and bracket for varying the angle of said path with respect to the axis of the grinding wheel, and hydraulic actuating and control means self-contained in the saddle for power shifting said slide and carrier.

2,170,305
TORCH COMPASS
Christian I. Ingwersen, Milwaukee, Wis.
Application August 17, 1938, Serial No. 225,287
1 Claim. (Cl. 266—23)

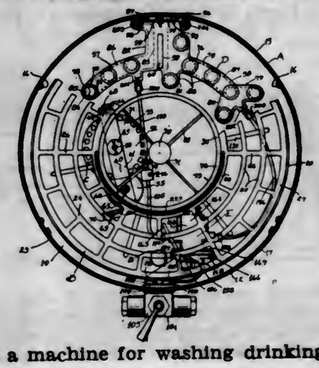


A device of the character described comprising an annular cup-shaped head having a centrally apertured bottom, said head being provided at diametrically opposite sides respectively with a wheeled support and a compass bar adjustably provided with a compass post, of an anti-friction bearing having two races concentrically disposed within said annular head, the innermost of said races having its inner periphery provided with an opening no larger than the opening in the bottom of said head, and a member having a flange overlying said inner race and a sleeve portion extending through the inner race and through the opening in the bottom of said head and adapted to receive the tip of a torch for the swiveling of the torch in said head and the guidance thereof about said post.

2,170,306
TREATMENT OF HYDROCARBONS
Vladimir Ipatieff and Herman Pines, Chicago, Ill., assignors to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application May 29, 1937, Serial No. 145,570
6 Claims. (Cl. 196—10)

1. A process for producing gasoline boiling-range hydrocarbons which comprises alkylating isobutane with n-butylenes in the substantial absence of isobutylene and in the presence of aluminum chloride at temperatures of 0° C. or below.

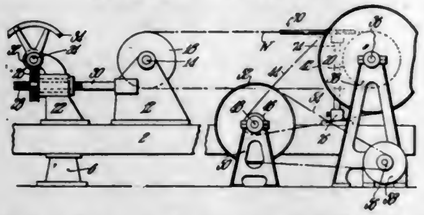
2,170,307
WATER-CONTROL SYSTEM FOR MACHINES FOR WASHING DRINKING VESSELS
Walter F. Ohme and Ray C. Stephan, Minneapolis, Minn., assignors to North Star Specialty & Manufacturing Company, Minneapolis, Minn., a corporation of Minnesota
Original application August 23, 1934, Serial No. 741,078. Divided and this application October 7, 1936, Serial No. 104,474
5 Claims. (Cl. 141—3)



1. In a machine for washing drinking vessels,

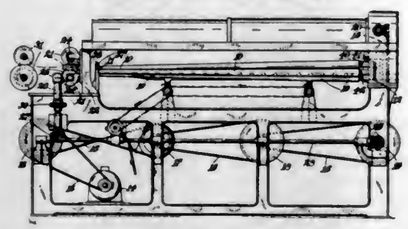
a support, a rack rotatably mounted on said support, a water motor for driving said rack, hot and cold water sprays for washing vessels carried by said rack, a cold water conduit connected to the cold water sprays and to said motor, a hot water conduit connected to said hot water sprays and separate regulating valves in each of said conduits for independently controlling the pressures of the hot and cold water and a valve structure for simultaneously shutting off the flow of water in said conduits.

2,170,308
FOURDRINIER MANUFACTURE
Andrew Purves, Holyoke, Mass.
Application January 21, 1938, Serial No. 186,119
4 Claims. (Cl. 153—32)



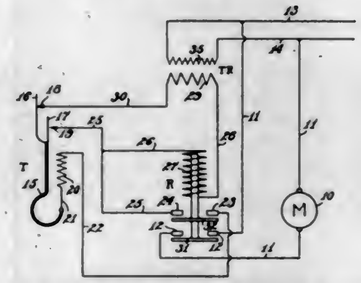
4. An apparatus for processing a Fourdrinier wire having opposite ends secured together to form an endless unit comprising in combination, a support, a pair of fixed bearings on said support, a pair of bearings slidable relative to said fixed bearings, rolls rotatable in said bearings for supporting the fourdrinier, a means to move said bearings relative to said fixed bearings whereby the fourdrinier may be tensioned while supported by said rolls, a substantially rigid member supported adjacent to one of said rolls movable towards and away from one of said rolls and disposed longitudinally thereof, and a means for moving said rigid member towards said roll and into pressing engagement with the fourdrinier thereon whereby as the fourdrinier is caused to travel by rotation of said rolls it passes said rigid member which co-operates with said roll to reduce knuckles in the fourdrinier.

2,170,309
APPARATUS FOR DRAWING PLASTIC MATERIAL
Alfred German Rose, Gainsborough, England, assignor to Rose Brothers (Gainsborough) Limited, Gainsborough, England, a British company
Application November 16, 1937, Serial No. 174,892
In Great Britain November 18, 1936
3 Claims. (Cl. 107—10)



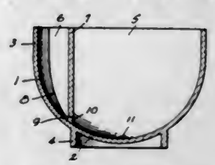
1. A batch rolling machine of the type described comprising in combination, a plurality of rotatable batch rollers located in proximity with their axes extending in the same general direction to form a horizontally directed tapering cradle for the reception of the batch, and a bar feeding device horizontally offset from the small end of the cradle and comprising a plurality of feed rollers arranged to rotate simultaneously in planes radially disposed with respect to a common horizontal axis and to form, between adjacent portions of their peripheries ,a nip with a horizontal throughway to engage the small end of the cone of material produced by the batch rollers and to feed said material horizontally forward as a bar of constant cross-section.

2,170,310
CONTROLLER FOR HEATING SYSTEMS
Paul F. Shivers, Wabash, Ind., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application April 11, 1932, Serial No. 604,637
Renewed June 27, 1934
22 Claims. (Cl. 236—68)



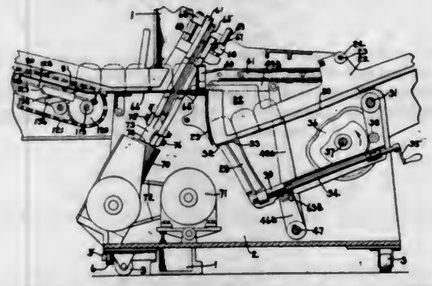
1. A controller comprising, a control motor, an energizing circuit therefor including a switch, a singly thermally-responsive element, a supplemental heater arranged to locally heat said thermally-responsive element, means controlled by the thermally-responsive element for establishing the energizing circuit of the control motor by movement of the thermally-responsive element in one direction and means controlled by initial reverse movement of the thermally-responsive element for energizing the supplemental heater to cause further reverse movement of the thermally-responsive element to break the energizing circuit of the control motor.

2,170,311
BOWL
Edith Phillips Smith, Berkeley, Calif.
Application March 14, 1938, Serial No. 195,739
1 Claim. (Cl. 65—15)



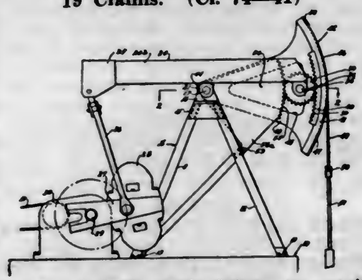
A bowl of the character described having an annular rim section and a rounded bottom section merging thereinto and a vertical partition near a portion of the rim section and formed on a curve reverse to that of the bowl so as to form a special compartment, each part of which drains toward a central point, the partition having a hole at said point communicating with the main portion of the bowl.

2,170,312
COMBINATION BREAD SLICING AND WRAPPING MACHINE
Howard B. Tuthill and Harry F. Caldwell, Grand Rapids, Mich., assignors to Oliver Machinery Company, Grand Rapids, Mich., a corporation of Michigan
Application June 15, 1938, Serial No. 213,806
17 Claims. (Cl. 93—2)



1. The combination with a wrapping machine and an article preparing machine of disconnectable means for holding said machines together in operating relation and for permitting separation of the two machines disconnectable driving means for transmitting movement from one machine to the other at a fixed sped ratio, and means actuated by the deposit of an article into said wrapping machine for causing the wrapping machine to operate through a single cycle of movements.

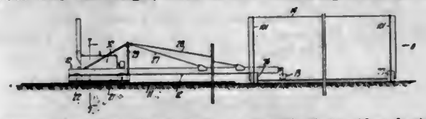
2,170,313
PUMP JACK
Ralph E. Whittlesey, Los Angeles, Calif.
Application August 8, 1938, Serial No. 223,580
19 Claims. (Cl. 74—41)



1. A pump jack embodying an oscillating pumping beam to which a pump string may be attached, a gear arranged to impart oscillating movement to said pumping beam, a reaction gear, intermediate gear means meshing with both said gears, and means for effecting reciprocative translation of said last mentioned gear means along said reaction gear.

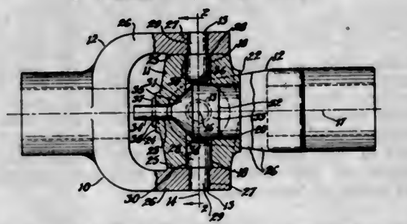
2,170,314
PIPE-COATING MACHINE
George D. Williams, South San Francisco, Calif., assignor to Western Pipe & Steel Company of California, San Francisco, Calif., a corporation of California
Application December 14, 1936, Serial No. 115,740
6 Claims. (Cl. 91—44)

2. In a pipe coating machine of the character described, means for rotatably supporting a pipe in horizontal position, a horizontal track extending parallel to the axis of the pipe, a carriage operating on the track, a boom mounted on the carriage, the free end of the boom being movable into the pipe by movement of the carriage, an applicator carried by the free end of the boom, a kettle for containing coating material mounted upon the carriage, means for heating said kettle,



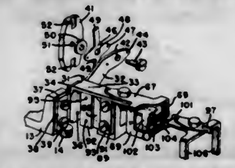
a pump having its inlet connected to the kettle, a pipe serving to connect the discharge side of the pump to said applicator, and a return pipe having one end of the same connected to said discharge pipe near said applicator, and extending back to said kettle.

2,170,315
UNIVERSAL JOINT
Robert L. Wonderly, Canton, Ohio
Application February 11, 1938, Serial No. 190,005
3 Claims. (Cl. 64—17)



3. In separable pivot joint construction for a universal joint and the like, a pivot block, the pivot block having formed therein a trunnion bore and a shouldered slide cam bore intersecting and communicating with the inner end of the trunnion bore, a trunnion in the trunnion bore, and a slide cam in the slide cam bore, the slide cam including an enlarged head and a tapered shoulder at one side of the head, the trunnion extending from the pivot block and the inner end of the trunnion abutting against the enlarged head of the cam and the shoulder of the cam being opposed by the shoulder of the cam bore when the joint is assembled, and separable securing means operating between the slide cam and the pivot block for maintaining the slide cam in assembled position, the separable securing means including a securing member laterally removable from one side of the joint.

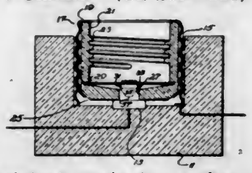
2,170,316
PRINTING TELEGRAPH APPARATUS
Walter J. Zenner, Des Plaines, Ill., assignor to Teletype Corporation, Chicago, Ill., a corporation of Delaware
Application December 31, 1936, Serial No. 118,526
12 Claims. (Cl. 178—33)



1. In a selector mechanism, a selection controlling lever arm presentable in either of two positions, and a flexible body having a limited por-

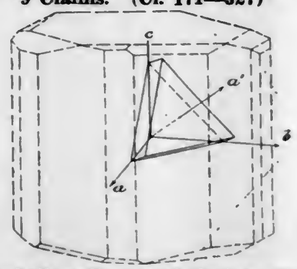
tion subjected to flexion for supporting said lever arm for quasi pivotal movement between said positions.

2,170,317
ELECTRIC CONTACT MEMBER
Henry T. Bussmann, St. Louis, Mo.
Application December 16, 1936, Serial No. 116,090
7 Claims. (Cl. 200—114)



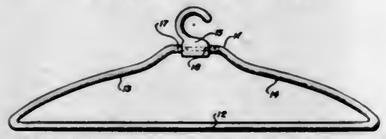
4. An electrical contact member for a plug fuse adapted to be removably fitted in an opening of a body of organic insulation material, said contact member comprising a main portion and a lesser portion with the contact face thereon, the main portion having a substantial mass to absorb heat and being adapted to fit closely yet movably in the entrance of the opening; the smaller portion being of substantially less mass and cross-sectional area and of such restricted length that a substantial amount of the heat generated therein will be absorbed by the main portion; the smaller portion having such reduced cross-sectional area as to leave such an enlarged space between the contact face and the walls of the opening that an arc which may be formed at the contact face will not extend to said walls to injure same.

2,170,318
PIEZOELECTRIC CRYSTAL DEVICE
Walter Guyton Cady, Middletown, Conn.
Application April 27, 1937, Serial No. 139,227
9 Claims. (Cl. 171—327)



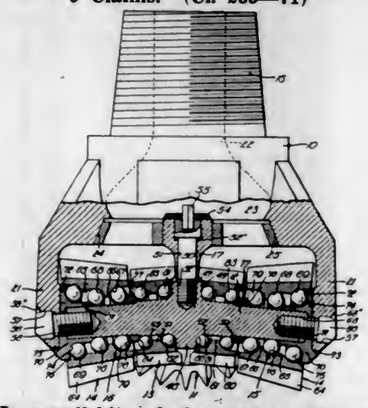
2. A Rochelle-salt crystal device cut at substantially equal angles to the crystallographic axes of the crystal.

2,170,319
COAT HANGER
Robert W. Cantwell, Los Angeles, Calif.
Application June 21, 1938, Serial No. 214,878
2 Claims. (Cl. 223—88)



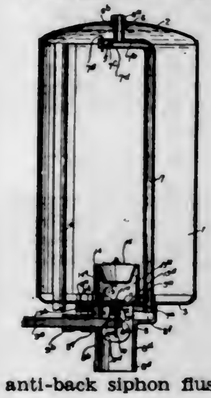
1. A coat hanger comprising a main member of a single piece of hollow tubular metal bent into substantially triangular form to provide a horizontal portion and inclined portions shaped to fit the shoulders of a coat, the point of juncture of said single piece of metal being at the top of said inclined portions means including a pin fitted into the hollow ends of said main member for joining the ends of said main member together at the top, and a hook member having a sleeve portion mounted on the pin.

2,170,320
ROCK BIT
Alfred C. Catland, Alhambra, Calif., assignor to Globe Oil Tools Company, Los Nietos, Calif., a corporation of California
Application January 8, 1937, Serial No. 119,615
9 Claims. (Cl. 255—71)



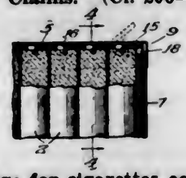
2. In a well bit, a body, a supporting member carried by the body, a cutter having two spaced internal races, one race facing inwardly and toward one end of the cutter, the other race facing inwardly and toward the other end of the cutter, a ball race on the member substantially opposing the first mentioned race, balls cooperating with the first mentioned race and the race on the member, a washer on the member having a ball race substantially opposing said other race, and a series of balls cooperating with said other race and the race on the washer.

2,170,321
ANTI-BACK-SIPHON FLUSHING APPARATUS
Frank B. Charroin, Coronado, Calif.
Application April 11, 1938, Serial No. 201,358
2 Claims. (Cl. 4—26)



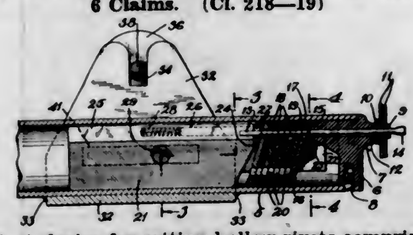
1. In an anti-back siphon flushing apparatus for toilets, the combination of a water supply tank, an overflow and vent tube communicating with the outlet from said tank below the discharge valve and communicating with the atmosphere above said tank, a check valve in connection with said tube opening into said tank inwardly of said vent, a telescopically mounted hollow water receiving valve adapted to seat at the discharge opening of said tank, a control valve seated in said telescopically mounted hollow water receiving valve centrally of its lower side, and cam means for opening both of said control and telescopically mounted valves, said cam means provided with a water engaging flange for shifting said cam upon the discharge of water from said tank.

2,170,322
CIGARETTE PACKAGE
John S. Cromelin, Chicago, Ill.
Application January 12, 1938, Serial No. 184,558
6 Claims. (Cl. 206—41)



1. A package for cigarettes comprising an inner member constructed of relatively rigid material defining a box-like body, said body being adapted to carry a plurality of cigarettes, an outer member comprising a wrapper of relatively flexible sheet material enveloping said body, the portion of said body adjacent one end of said cigarettes being scored to define a plurality of separable tabs, barbs cut from, and bent inwardly from said tabs into the tobacco of said cigarettes to maintain said cigarettes in position within said body, and waterproof means adhesively united between said wrapper and said tabs to seal said tabs.

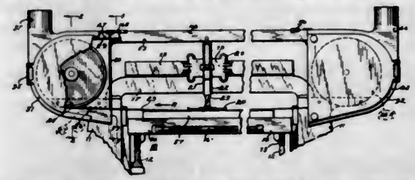
2,170,323
RIVET SETTING DEVICE
Alexis Serge Gorshkoff, New York, N. Y., assignor to Breeze Corporations, Inc., Newark, N. J.
Application February 15, 1939, Serial No. 256,485
6 Claims. (Cl. 218—19)



1. A device for setting hollow rivets comprising a casing having a portion to bear against a rivet, a plurality of plates disposed in the casing having apertures to receive a mandrel and means to move the plates to grip a mandrel and draw the same through a rivet.

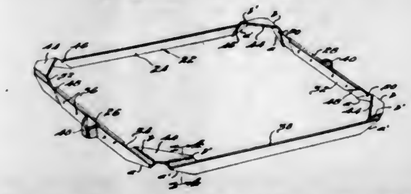
2,170,324
DUST EVACUATING DEVICE
Samuel Orr Hanna, Jamestown, N. Y.
Application September 15, 1937, Serial No. 164,023
4 Claims. (Cl. 51—273)

1. In a dust evacuating device for a sanding machine having a pair of pulleys and an endless belt thereon, comprising hoods enclosing said pulleys, said hoods having laterally inwardly directed openings adjacent the bottom thereof, and further inwardly directed openings adjacent the



top thereof, said openings and said further openings serving to permit passage of said belt into and out of said hoods, and means enclosing only the upper portion of said belt between said hoods, said means being aligned with the further openings in said hoods.

2,170,325
BATTERY HOLD-DOWN CLAMP AND METHOD OF MAKING THE SAME
George R. Harrison, Detroit, Mich., assignor to National Stamping Company, Detroit, Mich., a corporation of Michigan
Application April 5, 1937, Serial No. 135,037
4 Claims. (Cl. 153—11)



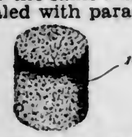
1. A holding device adapted to overlie adjacent angularly related sides of an article and having a portion adapted to overlie the top or bottom surface of the article, comprising a unitary substantially planar strip having leg portions and a corner portion therebetween, each leg portion being disposed to overlie and being individual to a corresponding side, each leg portion terminating in a plurality of bends extending transversely thereacross in such angular relation to each other that the corner portion of the strip between the respective bends extends diagonally across the corner defined between the leg portions and is disposed to overlie the said surface.

4. The method of forming a corner having an inwardly projecting tab in a strip which includes forming two pairs of spaced bends in said strip, the bends of one pair extending across the strip in opposite angular relation to the bends of the other pair, and bringing the ends of the strip into desired angular relation to each other while forming each outer bend into a fold and forming each inner bend into substantially a right angle, so as to define a corner between the ends of the strip, the portion of the strip between the inner bends extending diagonally across said corner and constituting said tab.

2,170,326
FUEL
Olga Headland, Moorhead, Minn.
Application May 15, 1937, Serial No. 142,751
1 Claim. (Cl. 44—15)

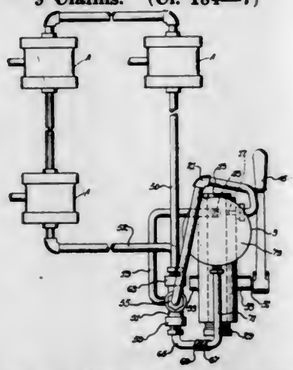
A compressed block of lignite and straw having a substantial quantity of alcohol absorbed

therein to render the same more completely combustible, and sealed with paraffin wax to prevent



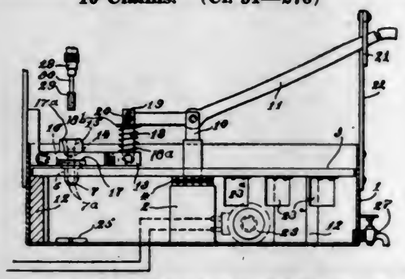
evaporation of the alcohol, said paraffin also acting as a binder.

2,170,327
COMBINED ALTERNATING PUMP AND CONTROL VALVE
David R. Hillis, Detroit, Mich., assignor to Trabon Engineering Corporation, Cleveland, Ohio, a corporation of Ohio
Application October 20, 1936, Serial No. 106,556
9 Claims. (Cl. 184—7)



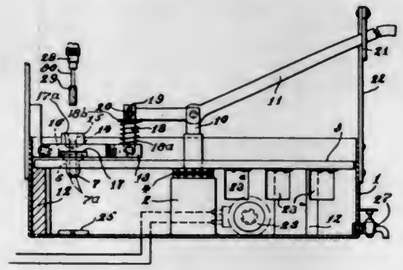
1. A fluid circulating device for single-line reverse-flow distributing systems having in combination, a body having two discharge outlets, a fluid receiving conduit, a pump in said body for pumping fluid from said discharge outlets alternately, and an automatic device responsive to the fluid discharge from said outlets for connecting the instant discharging outlet to a corresponding end of an associated distributing line and for simultaneously connecting the other end of the line to the fluid receiving conduit on said device for returning the by-passed fluid from the distributing line.

2,170,328
ART OF LAPPING OR GRINDING
William E. Hoke, Baltimore, Md.
Application November 10, 1937, Serial No. 173,886
10 Claims. (Cl. 51—278)



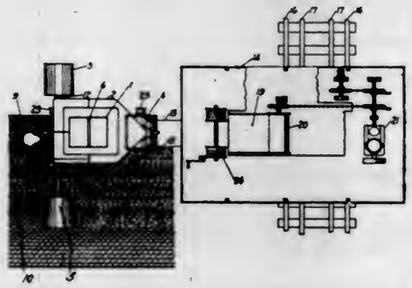
7. The method of lapping or abrading the bore of an object which consists in introducing into said object an abrasive tool having a close fit with said bore and heating said tool to give an abrading pressure between said tool and object, and moving them relatively one to the other.

2,170,329
APPARATUS FOR LAPPING OR ABRADING
William E. Hoke, Baltimore, Md.
Application November 10, 1937, Serial No. 173,888
4 Claims. (Cl. 51—53)



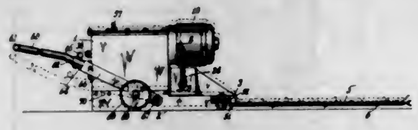
1. A lapping apparatus comprising a support for an article having an inner cylindrical surface to be lapped, a container for the support and article having a fluid therein, a lap of different ratio of size change with like temperature change than the article to be lapped and substantially the size of the cylindrical surface of the article, and means to vary the temperature of the fluid, thereby to change the temperature of the article to obtain the desired lapping pressure of the lap on the cylindrical surface of the article.

2,170,330
ASPHALT LAYING APPARATUS
Fritz Joedicke, Hamburg, Germany, assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 29, 1937, Serial No. 150,980
In Germany July 13, 1936
2 Claims. (Cl. 61—63)



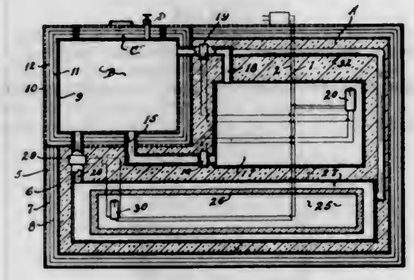
1. An asphalt applying and rolling machine comprising a pivotable front roller, two rear rollers, an axle connecting said two rear rollers, a frame connected to said pivotable front roller and slidably mounted on said axle, a hopper mounted on said frame, a lower discharge outlet in said hopper, said axle being greater in length than the width of said frame by a distance equal to substantially the width of said lower discharge outlet and said rollers being substantially equal in width to the width of said lower discharge outlet.

2,170,331
MINING MACHINE
Joseph F. Joy, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application October 21, 1935, Serial No. 45,901
7 Claims. (Cl. 262—28)



1. In a mining machine, a machine frame adapted to rest upon and slide in any direction over the mine floor, a kerf cutter projecting from said frame, means for feeding the frame over the mine floor during the cutting operation, and means for elevating the frame off from the mine floor and for transporting the machine comprising a handle pivotally connected to said frame to swing vertically, and floor engaging wheels carried by said handle.

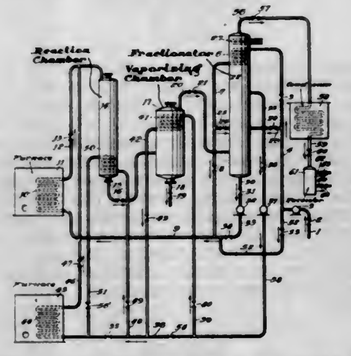
2,170,332
REFRIGERATOR
Clarence I. Justheim, Salt Lake City, Utah
Application April 19, 1937, Serial No. 137,607
4 Claims. (Cl. 62—91.5)



4. A carbon dioxide refrigerator of the class described comprising separate food compartments; doors for each compartment to close them; a gas chamber formed around one compartment to provide a thin area of gas surrounding the compartment; insulation between the compartment and the gas chamber; a solid carbon dioxide chamber insulated and sealed to hold solid carbon dioxide a long time; means to introduce gas from said solid carbon dioxide chamber into said gas chamber; means to introduce gas from said solid carbon dioxide chamber into one food compartment; and thermostatic means in each compartment to control the temperature in the individual compartments independently of the other.

2,170,333
CONVERSION OF HYDROCARBON OILS
Bernard L. Kramer, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
Application June 30, 1937, Serial No. 151,126
3 Claims. (Cl. 196—48)

1. In a process for the cracking of hydrocarbon oils wherein an oil of relatively high-boiling characteristics is heated to cracking temperature at superatmospheric pressure in a heating coil, an oil of relatively low-boiling characteristics simultaneously heated to an independently controlled higher cracking temperature at superatmospheric pressure in a separate heating coil, resulting heated products from both heating coils passed through substantially the entire length of an enlarged insulated reaction chamber, also maintained at superatmospheric pressure, wherein they are subjected to continued cracking, the resulting vaporous and liquid conversion products withdrawn from the reaction chamber and introduced into a reduced pressure vaporizing and separating chamber wherein vaporous and residual liquid conversion products are separated and wherefrom they are separately removed, said vaporous conversion products subjected to fractionation for the formation of relatively high-boiling and relatively low-boiling



reflux condensates which are returned, respectively, to the first mentioned and second mentioned heating coils for further cracking, fractionated vapors of the desired end-boiling point subjected to condensation and the resulting distillate recovered, the improvement which comprises passing fresh charging oil for the process in indirect heat exchange with vaporous products undergoing said fractionation, commingling the thus preheated charging stock with said high-boiling reflux condensate, supplying the commingled materials to the first mentioned heating coil and passing said low-boiling reflux condensate, prior to its introduction into the second mentioned heating coil, first, in indirect heat exchange with the vaporous conversion products in said vaporizing chamber and then in indirect heat exchange with said vaporous and liquid conversion products prior to their introduction into said vaporizing and separating chamber.

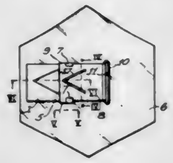
2,170,334
BOBBIN FOR WIRE WEAVING LOOMS
John P. Lacks, Dixon, Ill., assignor to Reynolds Wire Co., Dixon, Ill., a corporation of Illinois
Application April 11, 1938, Serial No. 201,368
1 Claim. (Cl. 242—123)



In a bobbin for wire looms, a hub having parallel ends and a pair of spaced flanges, said

flanges having their inner faces substantially parallel with relation to each other, said flanges being thicker adjacent the hub than adjacent their peripheries, said hubs and said flanges being die-cast integrally and said hub having a bore and an annular series of openings therein surrounding the bore and extending from end to end of said hub, the material of said hub between said openings also extending from end to end of said hub.

2,170,335
ADJUSTABLE CLOSURE FOR CONTAINERS
James William McNeil, Tampa, Fla.
Application March 24, 1936, Serial No. 70,600
14 Claims. (Cl. 221—62)



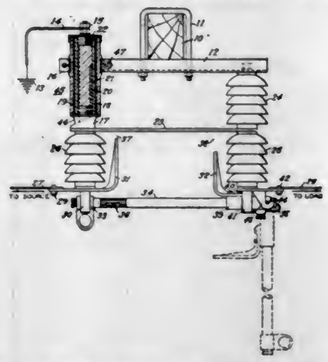
1. In combination with a container having an opening in the wall thereof, a guide member on the outer surface of the container having portions thereof extending through the opening and bent outward for engagement with the inner surface of the wall to hold the guide member on the wall of the container, and a closure member guided by the said guide member and movable to open and to close the opening.

2,170,336
TREATMENT OF HYDROCARBON OILS
Jacque C. Morrell, Chicago, Ill., assignor to Universal Oil Products Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application July 8, 1935, Serial No. 30,332
4 Claims. (Cl. 196—36)

1. A process for the treatment of cracked hydrocarbon oil distillate which comprises subjecting said cracked hydrocarbon oil distillate while in heated vaporous condition to the action of sulphuric acid containing a monocarboxy organic acid of relatively low volatility at a pressure less than atmospheric.

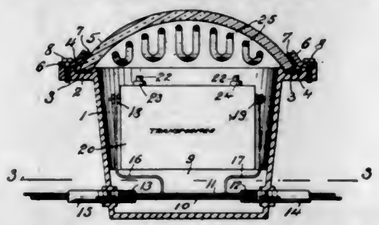
2,170,337
SURGE-PROTECTED CIRCUIT INTERRUPTER
Ralph R. Pittman and Carroll H. Walsh, Pine Bluff, Ark.
Application March 31, 1939, Serial No. 265,066
12 Claims. (Cl. 200—115)

12. A surge-protected fused switch comprising a single normally non-conducting excess-voltage device adapted to break down to effect flow of current therethrough in response to a predetermined voltage and to resume the normally non-conducting condition upon restoration of normal voltage conditions, a conducting member, means electrically connecting said excess-voltage device between said conducting member and ground, insulating means fastened to said conducting member and supporting spaced line and load terminals, said insulating means normally insulating said terminals with respect to said conducting member, a removably mounted fuse tube spanning said terminals and means including a fuse link within said tube electrically connecting said terminals, a first conducting electrode secured to said line terminal and a second conducting electrode secured to said fuse tube adjacent said load terminal and electrically connected thereto, said electrodes extending toward said conducting



member in spaced relationship therewith and arranged to provide preferential spark gaps between each electrode and said conducting member, the distance between said first conducting electrode and said conducting member differing from that between said second conducting electrode and said conducting member.

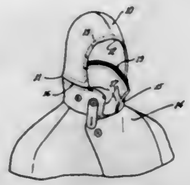
2,170,338
LANDING INDICATOR FOR AIRPORTS
Jesse L. Plummer and Cornelius Sullivan, Kansas City, Mo.
Application February 21, 1936, Serial No. 65,047
1 Claim. (Cl. 177—329)



In a landing indicator for airports, a container having a top opening and provided with two parallel partitions extending transversely and upwardly and forming with the bottom of the container a channel, a transformer resting on the upper edges of said partitions, electrical conducting means in said channel connected with the primary of said transformer, insulation material in said channel covering said conducting means, and an electrically lighted lamp in circuit with the secondary of and supported by and above said transformer and in the plane of said opening.

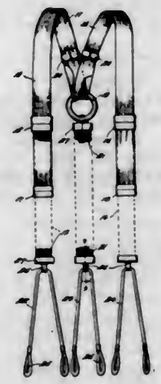
2,170,339
GARMENT
Byron H. Reeves, Calumet City, Ill., assignor to Winer Manufacturing Co., Hammond, Ind., a corporation of Indiana
Application July 21, 1937, Serial No. 154,812
2 Claims. (Cl. 2—84)

1. A garment having a collar with an upper marginal edge portion having opposite terminal extremities, and an interlocking slide fastener strip attached to said marginal edge portion and substantially flush with the edgewise extremity thereof and terminating at its opposite ends in inwardly spaced relation to each of the said terminal extremities of said marginal edge of the collar, and a hood having a lower marginal edge portion adapted to confront said marginal edge of the collar and having a complementary slide fastener strip attached to the inner side of said



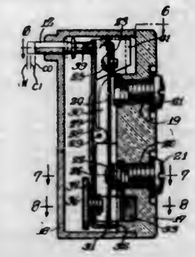
marginal edge portion thereof and substantially flush with the edge thereof, together with slide fastening means cooperable with said slide fastening strips to interlock the same with said marginal edge portions of the collar and the helmet in closely confronting relation, the opposite ends of said lower marginal edge portion of the helmet terminating substantially at the aforesaid opposite ends of the slide fastening member on said collar.

2,170,340
SUSPENDER CONSTRUCTION
Joachim Schwarz, Irvington, N. J., assignor to Forstner Chain Corporation, a corporation of New Jersey
Application June 24, 1937, Serial No. 150,040
1 Claim. (Cl. 241—12)



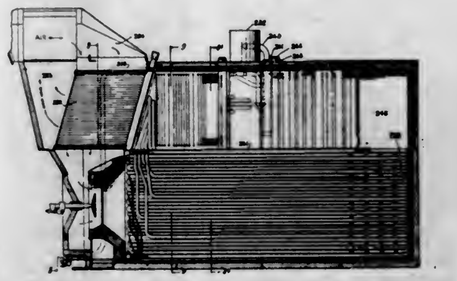
In an article of the class described, two straps of flexible material, a ring, one end of each strap being swivelly connected to said ring, a metallic spring coil section having an end connector swivelly connected to said ring, each of said straps having an end connector slidably adjustably secured thereto, and metallic spring coil sections respectively connected to said sliding connectors, the free end of each strap having an end connector adapted to freely slide on the associated spring coil section.

2,170,341
SWITCH UNIT
Burton E. Shaw, Bristol, Ind., assignor to Penn Electric Switch Co., Goshen, Ind., a corporation of Iowa
Application August 22, 1938, Serial No. 226,132
17 Claims. (Cl. 200—83)



1. In a switch unit, a base, a pair of terminals mounted thereon, a stationary contact carried by one of said terminals, a spring blade carried by the other terminal and having a movable contact carried thereby and normally constrained to circuit-closing coaction with said stationary contact, means for disengaging said movable contact from said stationary contact comprising an armature arm pivoted on said base at substantially the center of the armature arm, a magnet at one end of said base cooperating therewith to produce snap-acting movement of said armature arm, and an actuating element for transmitting movement from a condition-responsive device to said armature arm.

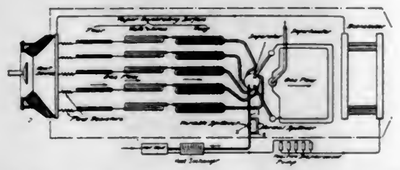
2,170,342
VAPOR GENERATOR
Ervin G. Bailey, Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application December 18, 1935, Serial No. 55,020
Renewed December 9, 1938
19 Claims. (Cl. 122—448)



13. In a forced flow boiler with a continuous flow path from liquid inlet to superheated vapor outlet and having a superheating section comprising upright headers connected by substantially horizontal parallel flow tube lengths with inlet and outlet above the tubes, the method of operation which comprises filling the flow path with liquid from end to end while heating the same, and then diverting liquid from the flow path in advance of the superheater upon vaporization to prevent entrance of additional liquid

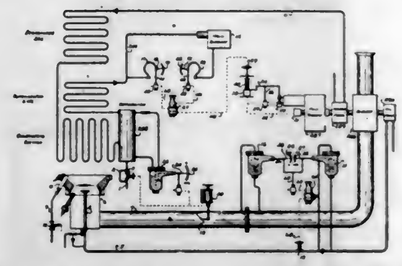
to the superheater whereby the superheater may free itself of liquid by vapor generation, whereafter it functions as a superheater.

2,170,343
VAPOR GENERATOR
Ervin G. Bailey, Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Original application December 18, 1935, Serial No. 55,020. Divided and this application June 10, 1938, Serial No. 212,870
8 Claims. (Cl. 122—235)



4. A forced flow vapor generator comprising a furnace chamber having an external wall of low heat storage capacity, said furnace chamber wall having a long small bore vapor generating tube directly exposed to and receiving radiant heat from said furnace chamber, said tube comprising a plurality of horizontally extending tube lengths arranged with their lengths extending along said furnace chamber wall in contacting relation with one another and ends of adjacent tube lengths connected by return bends of zero radius to form a fluid cooled wall area, and means for burning a fluid fuel in said furnace chamber.

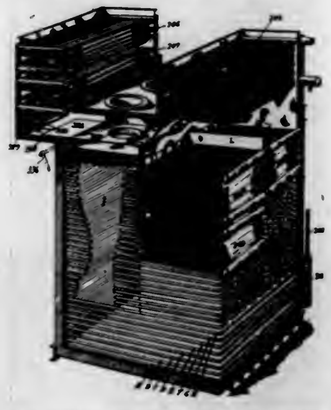
2,170,344
CONTROL SYSTEM
Paul S. Dickey, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application December 18, 1935, Serial No. 55,022
Renewed December 22, 1938
23 Claims. (Cl. 122—448)



1. The method of operating a vapor generator of the drumless forced flow type having a separator between the generating and superheating portions of the fluid flow path which includes, normally controlling liquid inflow and the elements of combustion in accordance with conjointly related indications of vapor outflow and vapor outflow pressure, and readjusting the supply of air for combustion from level of liquid in the separator.

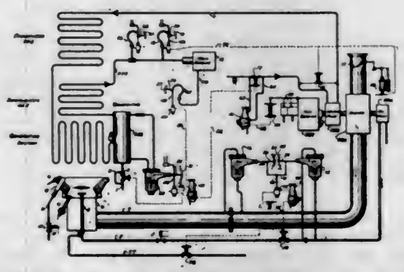
19. In combination with a vapor generator, an auxiliary power means driving fuel air, and liquid supply means for the generator, and means responsive to an indication of generator load for normally controlling speed of said auxiliary power means.

2,170,345
VAPOR GENERATOR
Ervin G. Bailey, Easton, Pa., and Perry R. Cassidy, Short Hills, Ralph M. Hardgrove, Westfield, and George D. Ebbets, Kenilworth, N. J., assignors to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application December 18, 1935, Serial No. 55,021
Renewed June 22, 1939
16 Claims. (Cl. 122—235)



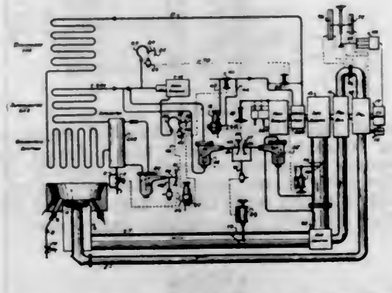
16. In a steam generator of the forced flow type having an upright U-shaped gas passage fired by elements of combustion and including a steam generating tube of great length and small diameter arranged transversely of the gas flow and around and within the passage in horizontal successively higher levels from the lowermost portion, the method of operation which comprises supplying elements of combustion at one end of said passage, supplying liquid to the generating tube at the lowermost level for fluid flow always progressively to a successively higher level, and regulating the rate of liquid supply to insure tube wetness throughout its entire length.

2,170,346
CONTROL SYSTEM
Paul S. Dickey, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application December 18, 1935, Serial No. 55,023
Renewed March 25, 1939
21 Claims. (Cl. 122—448)



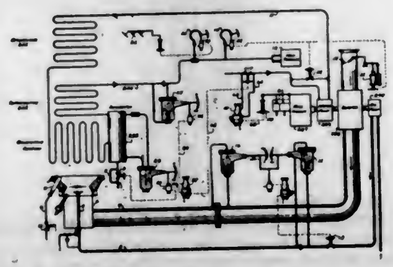
1. The method of operating a vapor generator of the drumless forced flow type which includes measuring vapor outflow, and utilizing such measured vapor outflow in supplying liquid under pressure at one end of the fluid flow path continuously in predetermined excess over measured vapor outflow from the other.

2,170,347
CONTROL SYSTEM
Paul S. Dickey, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application December 18, 1935, Serial No. 55,024
Renewed March 4, 1939
17 Claims. (Cl. 122—448)



1. The method of operating a vapor generator of the drumless forced flow type, which includes the steps of, controlling liquid inflow and the supply of fuel and air for combustion in accordance with load on the generator, readjusting air supplied from vapor outflow pressure, and further controlling the air supplied to maintain predetermined vapor outflow-air flow relation.

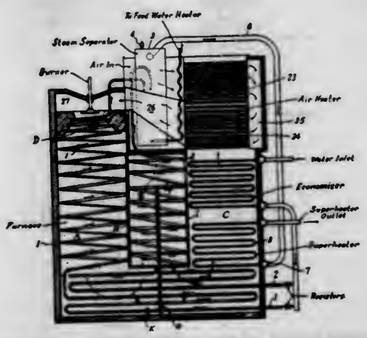
2,170,348
CONTROL SYSTEM
Paul S. Dickey, Cleveland, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application December 18, 1935, Serial No. 55,026
Renewed November 25, 1938
9 Claims. (Cl. 122—448)



2. In combination, a vapor generator of the drumless forced flow type having a separator between the generating and superheating portions of the fluid flow path, liquid supply means for the generator, and means responsive to vapor outflow and liquid inflow and liquid level in said separator for effecting regulation of said liquid supply means.

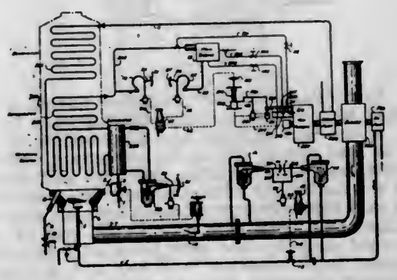
2,170,349
FORCED FLOW VAPOR GENERATOR
Ervin G. Bailey, Easton, Pa., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application November 27, 1936, Serial No. 113,060
9 Claims. (Cl. 122—250)

1. In a forced circulation vapor generator, a combustion chamber and gas chamber with upright side walls, the walls of which are principally formed of a plurality of coiled long small bore fluid flow conduits arranged uprightly in stacks with the convolutions of one stack alternating with and overlying portions of those of



another to provide a substantially continuous heat absorbing surface forming at least one wall of the gas chamber.

2,170,350
CONTROL SYSTEM
Ralph M. Hardgrove, Westfield, N. J., assignor to The Babcock & Wilcox Company, Newark, N. J., a corporation of New Jersey
Application December 18, 1935, Serial No. 55,027
Renewed December 22, 1938
11 Claims. (Cl. 60—106)

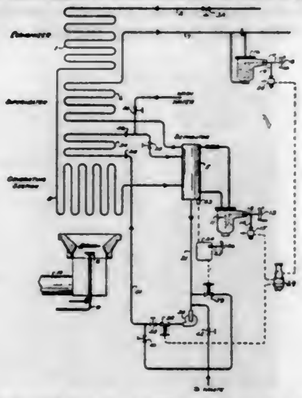


1. In combination, a vapor generator, a main turbine utilizing substantially all the vapor generated by the vapor generator, an auxiliary turbine, means responsive to vapor generator outlet pressure, means responsive to main turbine shell pressure, and means regulating auxiliary turbine speed jointly actuated by said pressure responsive means.

2,170,351
METHOD OF OPERATING VAPOR GENERATORS
Raymond D. Junkins, Cleveland Heights, Ohio, assignor to Bailey Meter Company, a corporation of Delaware
Application July 10, 1936, Serial No. 89,916
5 Claims. (Cl. 122—1)

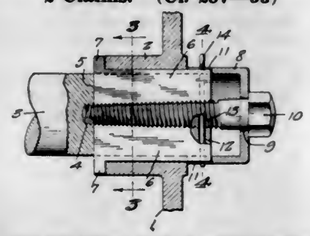
1. The method of operating a vapor generator which includes passing vaporizable liquid through an economizer and vapor generating sections in excess of the vapor generated from the liquid in said sections, separating the excess liquid from

the vapor in a separator, passing the vapor so separated through a superheater, and vaporizing



the excess liquid in an auxiliary vapor generating section.

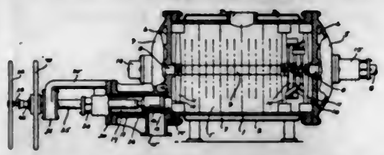
2,170,352
WHEEL OR PULLEY LOCK
Joe Schaefer, Pinckneyville, Ill.
Application May 19, 1937, Serial No. 143,577
2 Claims. (Cl. 287—53)



1. In combination with a pulley having a hub formed with oppositely disposed keyways in the wall of the bore thereof and terminating at one end of said hub in outwardly extending recesses, a shaft extending through said hub and formed with a transversely extending key slot registering with said keyways and provided with an end wall in alignment with said mentioned end of said hub, said shaft formed with an axially extending threaded bore bisecting said key slot, a pair of oppositely disposed keys positioned in said bisected slot and having edge portions extending into said keyways, one end of said keys abutting said end wall and fashioned with lugs extending within said recesses, a stud bolt threaded in said bore and threadedly engaging said keys in said key slot, and a cap carried by said bolt and formed with a skirt having slots receiving ends of said keys and engaging the opposite end of said hub for coaction with said lugs to maintain said hub against axial movement on said shaft.

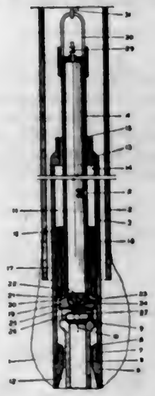
2,170,353
COMBINATION VALVE AND ENCLOSURE PLATE FOR HIGH PRESSURE REACTION VESSELS
Joseph L. Stecher, Wilmington, Del., and Herbert H. Parker, Penns Grove, N. J., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 19, 1937, Serial No. 175,536
3 Claims. (Cl. 137—21)

1. A piston valve comprising a cylindrical valve chamber, an axially disposed inlet port communicating with said chamber, a valve seat juxtaposed about said port, a radial discharge port communicating with said chamber, an axially and rotatably movable piston valve snugly



fitting in said chamber, a threaded sleeve connected to said piston valve and a hand wheel operatively attached thereto for axially moving the valve, a rod attached to said valve extending through said sleeve and a hand wheel attached thereto for rotating said valve.

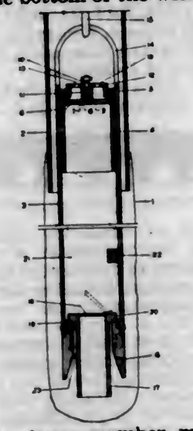
2,170,354
BAILER
James P. Stephens and Thomas J. Hamilton, Oklahoma City, Okla., assignors to Phillips Petroleum Company, a corporation of Delaware
Application November 8, 1937, Serial No. 173,466
5 Claims. (Cl. 166—19)



1. A bailer comprising an outer tubular section, an inner tubular section mounted in the outer tubular section and reciprocable therein, a piston member surrounding the inner tubular section having a sliding fit with the inner wall of the outer tubular section and reciprocable with the inner tubular section, said inner tubular member being closed at both ends to form a gas tight chamber for holding fluid under pressure and means for releasing the pressure fluid upon the landing of the bailer on the bottom of the well hole.

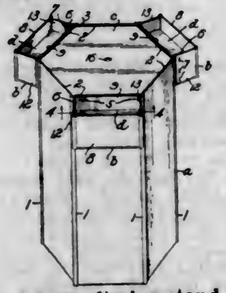
2,170,355
BAILER
James P. Stephens, Oklahoma City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application November 8, 1937, Serial No. 173,467
6 Claims. (Cl. 166—19)

1. A bailer comprising a main barrel portion closed at both the top and bottom thereof forming thereby a closed chamber within the barrel for holding fluid under pressure and means for releasing the pressure fluid upon the landing of the bailer on the bottom of the well hole compris-



ing a slidable sleeve member mounted in the bottom of the bailer.

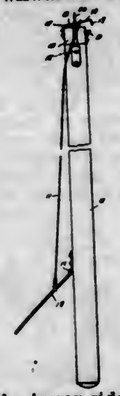
2,170,356
DISPLAY STAND
Frederick C. Stocker, Rittman, Ohio, assignor to The Ohio Boxboard Company, Rittman, Ohio, a corporation of Ohio
Original application November 17, 1937, Serial No. 175,112. Divided and this application May 11, 1938, Serial No. 207,367
2 Claims. (Cl. 211—72)



2. In a knockdown display stand, a collapsible multi-sided body member adapted to be set up in polygonal formation, and a knockdown collapsible tray structure carried by a side of said body member, said tray structure including four walls each of which is provided with an inwardly foldable flap, said flaps when inwardly folded being so disposed that the flaps of two of the walls have their lateral edges in engagement with adjacent faces of the flaps of the other walls to thus maintain the tray structure in distended rectangular condition, and a bottom member supported upon the upturned edges of said flaps within the space defined by said walls.

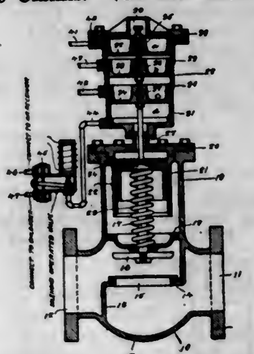
2,170,357
STORE-GOODS LIFTER
Gustav Adolf Torvik, Bagley, Minn.
Application March 11, 1938, Serial No. 195,377
3 Claims. (Cl. 294—22)

1. A store-goods lifter comprising an elongated handle, a broad fixed jaw rigidly secured to one side of the upper end portion of said handle and projecting laterally from the latter for engagement beneath the bead around the upper end of a can of canned goods, a broad movable jaw carried by the upper end of the handle and arranged to move downwardly and inwardly into



engagement with the inner side of said bead, and manually operable means for actuating said movable jaw from a point near the lower portion of the handle.

2,170,358
MULTISTEP INTAKE UNLOADER
Charles Wainwright, Erie, Pa.
Application March 25, 1936, Serial No. 70,903
9 Claims. (Cl. 230—25)

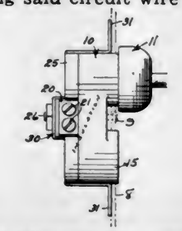


1. In combination with a compressor, an air receiver, and a multi-step governor operatively connected with the receiver and with the compressor to unload the latter, the improvement which comprises a valve disposed at the intake of the compressor and interposed in the connections between that and the governor to automatically vary the fluid volume admitted and yieldingly impelled to open position, said valve being interposed in the connections between the governor and the compressor and provided with means coordinated with the governor to be moved toward closed position a distance in accordance with any step assumed by the governor in its unloading functions.

2,170,359
ELECTRICAL CONNECTOR
Charles G. Wirth, Fair Oaks, Pa.
Application July 26, 1937, Serial No. 155,800
1 Claim. (Cl. 173—330)

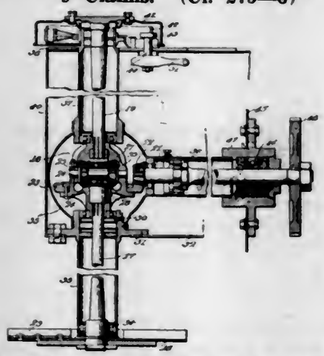
An electric plug connector comprising a shell

of insulating material having pairs of spaced slots, separating blocks of insulating material between the slots, an insulating block at the center of the shell provided with short lateral arms forming seats, a cover plate, metal bars secured to the cover plate, said bars extending longitudinally of the shell across said seats, each bar being provided at one longitudinal edge with a flange for receiving terminal wire securing screws, a single conductor of spring metal riveted at the center to the center of each bar, the conductor being deformed on each end and slit to provide three spring jaws arranged at an angle to each other, said cover plate having openings in the sides receiving said circuit wire receiving screws,



a bolt passed through the cover plate, the insulating block and the shell for securing the cover plate to the shell, spaced studs of insulating material projecting from the cover plate and bearing upon said separating blocks of the shell for insulating said metal bars and their respective conductors from each other, and cap members each provided with a pair of prongs forming terminals for electric circuit wires, each prong being provided with a lateral extension at the tip forming a hook adapted to be received in respective spring jaws of the conductors by movement of the cap member longitudinally of the shell after the prongs have been inserted in a respective pair of said slots.

2,170,360
ROAD SANDER
Laurence J. Whelan, Butte, Mont.
Application December 11, 1937, Serial No. 179,371
9 Claims. (Cl. 275—8)



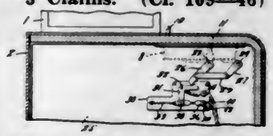
1. A material distributing device comprising a unit adapted to be applied to a vehicle and including a power shaft, a differential driving mechanism connected to said shaft, a pair of driven shafts operated from said differential driving mechanism, a material distributing mechanism operated by one of said driven shafts, and means associated with the other driven shaft for controlling the operation of the material distributing mechanism.

2,170,361
METHOD OF MAKING DUCTILE LAMINATED METAL
Marshall G. Whitfield, Knoxville, Tenn., assignor to Reynolds Metals Company, New York, N. Y., a corporation of Delaware
Application April 4, 1938, Serial No. 200,003
7 Claims. (Cl. 148—12)



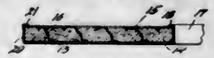
7. A method of rendering ductile an aluminum-coated ferrous metal whose aluminum-coating is bonded to its ferrous core by an alloy bond, which method includes the steps of subjecting the laminated metal to a plurality of rolling operations at a temperature below that at which there is a material increase in the dispersion of the component metals which rolling operations successively break the alloy layer into blocks and separate the same and then rotate a substantial number of said blocks to embed the same in the laminations.

2,170,362
SAFETY DEVICE FOR CASH REGISTERS OR THE LIKE
Erazm Zoub, New York, N. Y.
Application May 5, 1937, Serial No. 140,926
3 Claims. (Cl. 109—46)



1. In a remote control depositing money container, a till, a vault positioned substantially below the till, a downwardly movable bottom for the till, a member spaced apart from and concurrently movable with said till bottom, said member being positioned in the vault and to one side of said till bottom, said member and said till bottom being gravity urged to a position whereby any objects contained in the till will be released into the vault, means positioned in the vault for resisting movement of said member and said till bottom into releasing position, said resisting means normally engaging said member, said resisting means being movable out of the path of said member, means for constantly urging said resisting means through its path away from resisting position into releasing position, a fusible link adapted to be weakened past the breaking point by the passage of electricity therethrough, said link normally preventing movement of said resisting means from its resisting position, whereby an electric current may be utilized to release the resisting means to permit objects in the till to fall into the vault.

2,170,363
GASKET
George T. Balfe, Detroit, Mich., assignor to Detroit Gasket & Mfg. Co., Detroit, Mich., a corporation of Michigan
Application March 4, 1935. Serial No. 9,311
1 Claim. (Cl. 288—26)



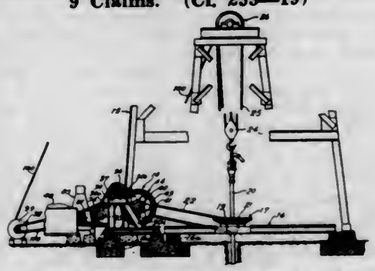
A gasket having an opening and consisting of a metal layer and a cushion layer, said metal layer forming one surface of the gasket and having a multiplicity of closely spaced openings and projections struck up from the metal layer at said openings, said projections embedded in the cushion layer and extending to the opposite surface thereof and having their ends clenched over on said surface, a plane metal layer having an uninterrupted face and forming the opposite surface of the gasket, means connecting all of the layers together with the clenched-over ends of the projections engaging the inner surface of the plane layer whereby heat transfer through the gasket is facilitated.

2,170,364
PACKAGING STRUCTURE
Robert Morris Bergstein, Cincinnati, Ohio, assignor to Edna May Bergstein and himself, as trustees
Application March 2, 1936, Serial No. 66,650
3 Claims. (Cl. 229—55)



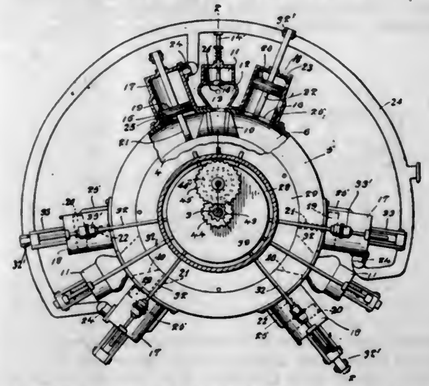
1. A plural ply open-mouthed bag comprising an inner ply of heat-fusible material and an outer ply of other flexible material, said inner ply having an interior of integral nature with two of its seams formed by fusion, at least one of said fused seams being transverse the bag and being faced on both sides by the outer ply secured thereto.

2,170,365
DRAW WORKS HAVING DUAL DRIVE
William D. Davidson, Los Angeles, Calif., assignor to Emsco Derrick & Equipment Company, Los Angeles, Calif., a corporation of California
Application December 16, 1938, Serial No. 246,141
9 Claims. (Cl. 255—19)



1. In combination: a drawworks having a drawworks shaft, a hoisting drum, drum drive means whereby said shaft may drive said drum, and clutch means for said drum drive means; a drawworks shaft drive means whereby a main engine may drive said drawworks shaft; drawworks shaft drive means clutch for said drawworks shaft drive; rotary drive means having a rotary drive sprocket rotatable on said drawworks shaft; primary auxiliary engine drive means whereby an auxiliary engine may drive said rotary machine drive sprocket; and clutch means for locking said rotary drive sprocket to said drawworks shaft.

2,170,366
ROTARY INTERNAL COMBUSTION MOTOR
Julio Correa Dominguez, Tocopilla, Chile
Application June 2, 1937, Serial No. 146,081
1 Claim. (Cl. 123—14)

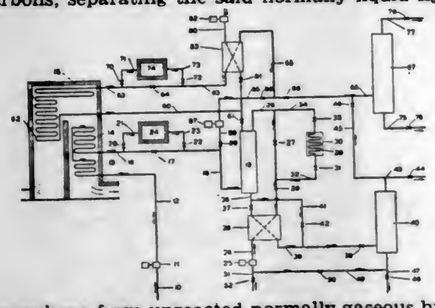


A rotary internal combustion engine comprising a stator including a piston chamber, a rotor operating in said stator, pistons on said rotor and operating in the chamber, combined fuel intake and firing chambers in communication with said piston chamber, ignition means in said combined fuel intake and firing chambers, valves for controlling said combined fuel intake and firing chambers, exhaust and air valve housings in communication with the piston chamber adjacent the combined fuel intake and firing chambers and each having a port open to the atmosphere and a bypass communicating with the piston chamber, valves operating in said housings for opening and closing the bypasses to said ports and closing said housings to said piston chamber, abutments carried by the latter-named valves for movement into and out of the piston chamber, and a timing means driven by said rotor for actuating and timing said valves whereby during one-third of the cycle of operation the pistons draw fuel from said fuel intake and firing chambers into the piston chamber in rear of said pistons and simultaneously said pistons scavenge exhaust gases from in advance thereof to the atmosphere by way of the bypasses and the ports of the exhaust housings and during the second third of the cycle of operation to compress the fuel between the pistons and the abutments of the valves of the air housings and simultaneously draw into the piston chamber cooling air in rear of said pistons by way of the bypasses and ports of the air housings and during the last third of the cycle to fire and expand the compressed fuel for driving the pistons and simultaneously exhaust to the atmosphere the cooling air by way of the bypasses and the ports of the exhaust housings.

2,170,367
PROCESS FOR CONVERTING NORMALLY GASEOUS HYDROCARBONS INTO GASOLINE
Frederick E. Frey, Bartlesville, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware
Application May 11, 1937, Serial No. 142,047
9 Claims. (Cl. 196—10)

6. A process for the conversion of normally

gaseous hydrocarbon mixtures containing saturated and unsaturated hydrocarbons into normally liquid hydrocarbons of the gasoline range, which comprises subjecting a normally gaseous hydrocarbon mixture containing unsaturated and saturated hydrocarbons to a first thermal conversion step under a pressure between 500 and 3000 pounds per square inch at a temperature between 370° and 540° C. for a period of time to effect an optimum yield of normally liquid hydrocarbons, separating the said normally liquid hydrocarbons from unreacted normally gaseous hydrocarbons at a temperature between 260° and 455° C., and at a pressure not greater than that of said first step and greater than that of the second conversion step hereinafter recited, and subjecting said normally gaseous hydrocarbons to a second thermal conversion step under a pressure less than that maintained in said first conversion step and in excess of 200 pounds per square inch and at a temperature between 540° and 815° C. for a period of time to effect an optimum yield of normally liquid hydrocarbons.



2,170,368

ILLUMINATED ADVERTISING APPARATUS WITH A SCINTILLATING EFFECT

Augusto Gentilini, Rome, Italy

Application July 30, 1936, Serial No. 93,363
In Italy July 29, 1935
5 Claims. (Cl. 40—130)



1. A device for producing scintillating indicia which comprises a source of light, a rotatable cylinder, a plurality of reflecting surfaces irregularly disposed on the periphery of said cylinder, a lens disposed in the line between said source of light and said cylinder for concentrating the beam from said source of light upon the periphery of said cylinder, and a parabolic reflecting surfare disposed behind said cylinder, said cylinder, source of light, and parabolic reflecting surfaces being disposed in suitable juxtaposition.

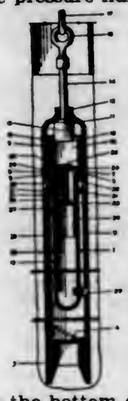
2,170,369

BAILER

Thomas J. Hamilton, Oklahoma City, Okla., assignor to Phillips Petroleum Company, a corporation of Delaware

Application November 8, 1937, Serial No. 173,468
4 Claims. (Cl. 166—19)

1. A bailer comprising an outer tubular section, an inner tubular section mounted in the outer tubular section, said inner tubular member being closed at both ends to form a gas tight chamber for holding fluid under pressure, means for releasing the pressure fluid upon the landing



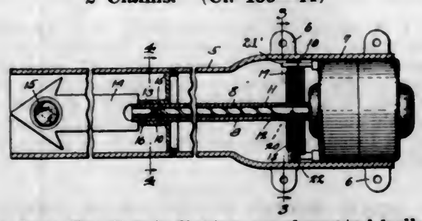
of the bailer on the bottom of the well hole and discharge means for the pressure gas comprising a jet member mounted in the wall of the inner section and discharging through the wall of the outer section.

2,170,370

DIRECTION INDICATOR

Warren A. Jacobus, Wood River, Nebr.

Application September 28, 1936, Serial No. 103,037
2 Claims. (Cl. 185—44)



1. In a direction indicator, an elongated hollow body portion, an electric motor mounted within the body portion, a shaft having a spirally formed groove, rotated by the motor, said shaft having a circumferential groove communicating with the spirally formed groove at one end thereof, a spring in the circumferential groove, a member having a square opening mounted within the body portion, a sleeve square in cross section movable through the square opening, a pin carried by the sleeve and disposed in the spirally formed groove, whereby the sleeve is fed longitudinally of the shaft and extended beyond one end of the hollow body portion when the shaft is rotated in one direction, said pin adapted to move into the circumferential groove against the action of the spring, and said spring adapted to urge the pin into the spirally formed groove when the shaft rotates in the opposite direction.

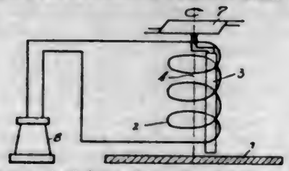
2,170,371

APPARATUS FOR TESTING MAGNETIZABLE WORKPIECES

Friedrich Jähne, Frankfort-on-the-Main, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application January 8, 1935, Serial No. 904
In Germany January 8, 1934
5 Claims. (Cl. 175—183)

1. An apparatus for detecting inhomogeneities in magnetizable work pieces, particularly in welded seams, comprising a ferro magnetic core encircled by a coil, mechanical means for moving said core in an eccentric manner and a listening



device connected to said coil which listening device indicates the voltage induced in the coil if the coil passes inhomogeneities in the work piece parallel to the surface of which it is moved.

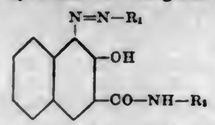
2,170,372

AZO DYESTUFFS

Walter Kern, Sissach, and Richard Tobler, Riehen, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland

No Drawing. Application May 21, 1938, Serial No. 209,377. In Switzerland June 2, 1937
6 Claims. (Cl. 260—204)

1. The azo-dyestuffs of the general formula



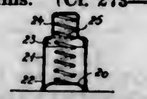
wherein R_1 is an aryl radical and R_2 is an aryl radical selected from the group consisting of pyrene and nitropyrene.

2,170,373

APPARATUS FOR PLAYING A TABLE GAME

Oscar Kind, Rodenkirchen, near Cologne, Germany

Application December 10, 1936, Serial No. 115,210
In Germany December 18, 1935
2 Claims. (Cl. 273—129)



2. In an apparatus for playing a table game, including a plane playing surface, and a game piece movable along said surface: a hollow playing figure, said figure having a base, said figure itself being formed to provide means for compressing air therein, said figure being formed to provide an orifice therein adjacent the base thereof for the projection of a jet of compressed air therethrough, said orifice being formed and positioned to project said jet of air at right angles to the vertical axis of said figure, and said figure being formed to provide means remote from said orifice for indicating the direction of flow of said air jet.

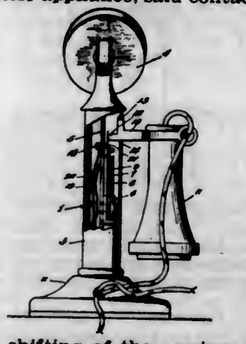
2,170,374

CONTROL SWITCH

Wellington C. Leonard, Mansfield, Pa.

Application October 5, 1937, Serial No. 167,460
3 Claims. (Cl. 179—2)

1. A control switch including, in combination with a telephone having a standard, a receiver hook and a receiver, a switch spring carried by the standard and engageable by the receiver hook, a contact carried by the standard, a contact carried by the switch spring for cooperating with the first mentioned contact, and circuit connections for said contacts, said contacts being insulated from the telephone, a source of current supply, and an electric appliance, said contacts being engageable at shifting of the receiver hook to inoperative position by the receiver for closing an electric circuit from the current source to the appliance, said contacts being separable for breaking the electric circuit when the receiver hook is raised.



2,170,375

ELECTRODEPOSITION OF ALUMINUM

Frank C. Mathers, Bloomington, Ind., and Robert D. Blue, Midland, Mich.

No Drawing. Application May 10, 1937, Serial No. 141,706
3 Claims. (Cl. 204—1)

2. The method of electrodepositing aluminum upon dissimilar metals which comprises passing direct current between an aluminum anode and a dissimilar metal cathode in an electrolyte composed of the reaction product of benzene, an alkyl halide, and an aluminum halide, under a layer comprising benzene.

2,170,376

METHOD OF STIFFENING SHOES

Karl Mayer, Landau Pfalz, Germany

No Drawing. Application August 31, 1935, Serial No. 38,847. In Germany November 3, 1934
2 Claims. (Cl. 12—145)

1. Method of manipulating shoe tip stiffeners of felt impregnated with a mixture of nitrocellulose and an artificial resin miscible with nitrocellulose, including the steps of inserting the softened tip stiffener between the upper leather and the shoe lining, briefly pressing together the upper, stiffener, and lining to unite same, pulling the resultant reinforced upper over the last with the upper edge projecting beyond the last, turning in the projecting upper edge over the inner sole resting on the last by means of the wipers on the lasting machine, and directing hot air onto the juncture between the upper edge and the inner sole until the said juncture is dried.

2,170,377

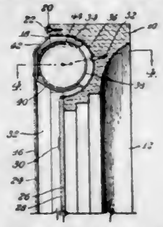
PICTURE ILLUMINATION

Louise A. Nisle, Chicago, Ill.

Application December 18, 1936, Serial No. 116,613
3 Claims. (Cl. 240—4)

2. The combination of a picture frame having a pair of ledges on its rear face, one of said ledges

projecting rearwardly beyond the other, the rear face of said frame being provided with a recess, a picture supporting mount anchored to the said one of said ledges, a transparent pane anchored to



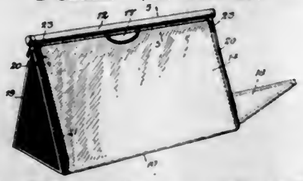
the said other of said ledges, the picture supporting mount being spaced from and located behind said transparent pane, and an electric lamp mounted within said recess and arranged for illuminating the picture supporting mount.

2,170,378
CONTAINER
Gustaf Örström, Alsten, Sweden, assignor to Aktiebolaget Gerh. Arehns Mekaniska Verkstad, Stockholm, Sweden, a joint-stock company of Sweden
Application February 19, 1937, Serial No. 126,715
In Sweden February 21, 1936
3 Claims. (Cl. 229—14)



1. A container comprising a carton having a lining, said carton having at its upper edge two oppositely disposed, cut out, triangular, inwardly bent closure flaps that cover said lining and two oppositely disposed, cut out, rectangular flaps that are bent down upon said triangular flaps so that part of said lining is clamped directly between said rectangular and triangular flaps, said rectangular flaps overlapping one another in part, said lining projecting beyond said flaps and being bent rearwards about the front edge of the uppermost of said rectangular flaps to form a top closure covering said front edge.

2,170,379
COLLAPSIBLE PET CASE
Nellie F. Ortt, New York, N. Y.
Application April 12, 1938, Serial No. 201,533
1 Claim. (Cl. 119—19)



A collapsible pet case comprising a relatively rigid rectangular base member at the bottom of the case, a relatively rigid elongated and attenuated supporting member provided adjacent the top of the case, side members formed of flexible material connected between the base and the supporting member so that the case is substantially triangular in cross section, said side members being provided with handle openings adjacent the supporting member, end closures connected to the base at the two ends of the case and having means for releasably securing them to the sides of the case at the ends thereof, one of said closures having openings to provide ventilation, and a strap secured to the bottom of the base member and provided with releasable fastening means, the strap being adapted to extend through the handle openings and retain the case in collapsed position.

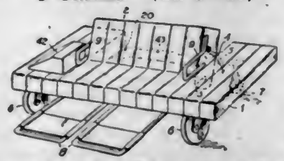
2,170,380
ALIPHATIC SULPHONIC ACID
Hermann Holsten, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort - on - the - Main, Germany
No Drawing. Application May 19, 1931, Serial No. 538,615. In Germany May 30, 1930
5 Claims. (Cl. 260—513)

1. The process for the production of assistants for the textile and related industries, which comprises heating an alkali metal salt of sulphurous acid with a sulphuric ester of an aliphatic primary alcohol containing at least eight carbon atoms to a temperature between 100° and 250° C.

2,170,381
COMPOUNDS OF THE BENZANTHRONE SERIES
Edward T. Howell, Milwaukee, Wis., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application April 24, 1937, Serial No. 138,744
3 Claims. (Cl. 260—355)

1. A halogen containing Bz2,Bz2'-dialkoxyisodibenzanthrone.

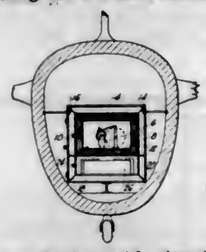
2,170,382
PARTY LOUNGE AND FURNITURE CONSTRUCTION
Frederick Kiesler, New York, N. Y.
Application January 24, 1936, Serial No. 60,604
5 Claims. (Cl. 5—37)



5. The couch claimed in claim 4, in which the said recess is so dimensioned that at least one person can sit upon the main body at the recessed section thereof, with his legs disposed in the recess, for the purposes described.

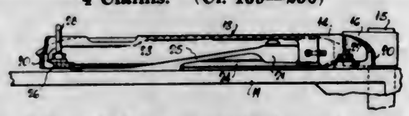
2,170,383
AIRCRAFT RECORDING MEANS
Charles R. Kines, Baltimore, Md.
Application March 23, 1937, Serial No. 132,631
1 Claim. (Cl. 179—100.11)

In an airplane communicating device comprising, a recording apparatus including an electrically operated recording device, a radio having transmitting and receiving means for sending and receiving messages and an electric circuit for operating said radio, a shock and fireproof container for housing said recording apparatus, a separate electric circuit for operating said recording apparatus, an electric circuit connecting the said transmitting and receiving means with the said recording device and means for supply-



ing electric energy to said circuit, a multiple switch having means when in one position for closing the said electric circuits to the radio and recording apparatus for operating the same, said switch having a second position closing only the electric circuit to the recording for recording only the messages passing through the transmitting means and a single operating means for positioning the said switch in the several positions.

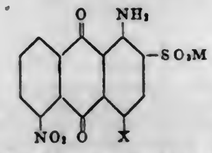
2,170,384
SHUTTLE BOX FRONT
Henry Jones Lanier, Langdale, Ala., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine
Application February 21, 1938, Serial No. 191,741
4 Claims. (Cl. 139—256)



1. A shuttle box for looms having a box front provided with an open-ended thread slot extending downwardly and inwardly along the lower edge of the box front and dividing the box front into an upper anchoring member anchored at its inner end by means secured to the inner end and extending over the top of the shuttle box, and having a shorter member disposed below said slot and anchored at the outer end of the shuttle box.

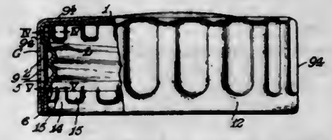
2,170,385
ANTHRAQUINONE ACID WOOL DYESTUFFS
Henry R. Lee, South Milwaukee, and David X. Klein, Milwaukee, Wis., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 24, 1938, Serial No. 197,861
2 Claims. (Cl. 260—374)

1. Acid wool dyestuffs of the following general formula



wherein M stands for an element of the class consisting of hydrogen and alkali-metals and X stands for an arylimino radical of the benzene series.

2,170,386
RECEPTACLE CLOSURE
Augustus L. Merolle, Brooklyn, N. Y., assignor of one-half to Empire Metal Cap Co., Inc., Brooklyn, N. Y., a corporation of New York
Application August 28, 1934, Serial No. 741,808
2 Claims. (Cl. 215—43)



1. A receptacle closure consisting of a shell member and a cap member, the cap member having a top wall portion and a marginal depending side wall, the shell member being formed separately from the cap member and being nested within the cap member and having a depending side wall disposed with its lower annular edge portion adjacent to the lower annular edge portion of the side wall of the cap member, the side wall of the shell member having a series of upwardly and outwardly opening seats therein adjacent to but spaced from its lower edge, the side wall of the cap member having a corresponding series of inwardly and downwardly projecting lugs engaging within each of said seats adapted to at once hold the two members against interrotation and to limit upward movement of the lower annular marginal portion of the side wall of the shell member within the cap member, and the lower marginal portion of the side wall of the cap member being bent inwardly about the lower annular edge of the side wall of the shell member in engagement therewith so as to hold the two members assembled with the lugs of the cap members closely engaging within said seats.

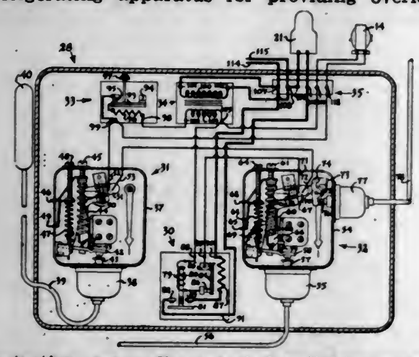
2,170,387
GLAZE
John D. Morgan, South Orange, N. J., assignor to Power Patents Company, Hillside, N. J., a corporation of Maine
No Drawing. Application May 25, 1937, Serial No. 144,603
2 Claims. (Cl. 106—36.2)

1. A high temperature resistant glaze formed by thoroughly mixing and reacting a mixture of about 90 to 50 parts by weight of finely ground zircon and about 10 to 50 parts by weight of phosphoric acid and a small proportion of finely ground ferrosilicon.

2,170,388
AIR CONDITIONING CONTROL SYSTEM
Clarence W. Nessell, Dayton, Ohio, assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application June 7, 1937, Serial No. 146,756
3 Claims. (Cl. 62—4)

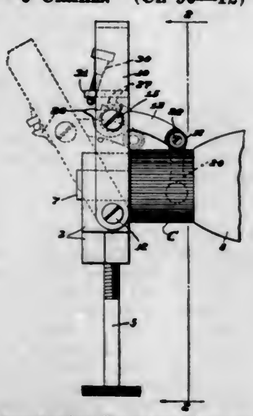
2. In an air conditioning system, the combination of an air conditioning apparatus including an electrically operated refrigerating apparatus for cooling air and an electrically operated air circulating means for discharging cooled air into a space, control means responsive to the temperature of the air in the space, control means responsive to pressure conditions produced in the refrigerating apparatus, switching means oper-

ated by said control means, a starter for the refrigerating apparatus including load contacts for completing a circuit to the refrigerating apparatus and an operating coil, a control circuit for the operating coil of the starter including the switching means for controlling the operation of the starter and hence of the refrigerating apparatus, an overload cut-out switching mechanism including switching means in the control circuit and thermal means in the circuit to the refrigerating apparatus for providing overload



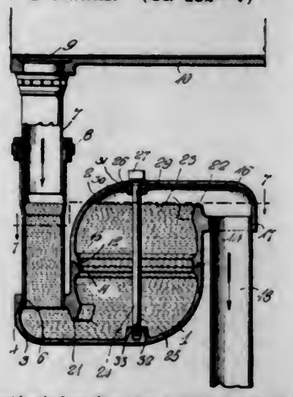
protection, manually operated switching means, a control circuit for the electrically operated air circulating means including the manually operated switching means for controlling the operation of the air circulating means, said manually operated switching means being also included in said control circuit for the operating coil of the starter whereby the manually operated switching means controls the operation of both the refrigerating apparatus and the air circulating means.

2,170,389
APPARATUS FOR USE IN REPAIRING COMMUTATORS
Charles A. Payne, Brockton, Mass., assignor to Newnan Machine Co., Brockton, Mass., a corporation of Massachusetts
Application February 19, 1938, Serial No. 191,446
6 Claims. (Cl. 90—12)



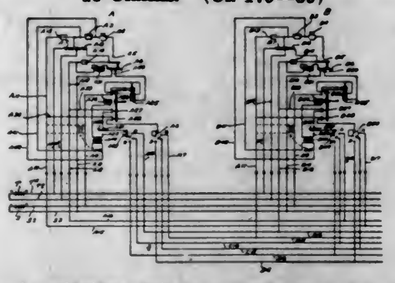
1. In an apparatus for operating on motor commutators, the combination of a base, means for releasably securing a motor armature to said base, a rotary cutter for operating on the mica separators between the segments of the commutator, an arm pivoted on said base, and a second arm pivoted on the first arm to swing in the same plane with it, said second arm supporting said cutter.

2,170,390
ANTISIPHONING TRAP FOR PLUMBING FIXTURES
Isaac B. Ritter, Philadelphia, Pa., assignor of one-half to Frank T. Ray, Philadelphia, Pa.
Application October 14, 1937, Serial No. 169,029
4 Claims. (Cl. 182—7)



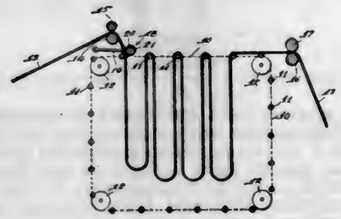
1. An anti-siphoning trap comprising a pair of hollow members having interengaging peripheral coacting edge portions forming a fluid tight seal, an inlet connection projecting from one of said members, an outlet connection extending from the other of said members, the angular relation of said inlet and outlet connections being selectable by angularly positioning one of said members with respect to the other of said members, and a segmental lip portion extending transversely within each of said members adjacent the respective inlet and outlet connections thereof, the segmental lip portion adjacent the outlet connection operating to increase the depth of the liquid seal in the enclosure formed by said coacting hollow members.

2,170,391
TELEPHONE SYSTEM
Edward S. Ruth, Norwalk, Conn., assignor to Edwards and Company, Inc., Norwalk, Conn., a corporation of New York
Application October 7, 1938, Serial No. 233,713
13 Claims. (Cl. 179—39)



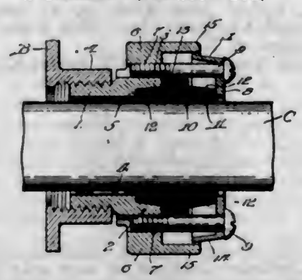
1. A selective intercommunicating telephone system comprising a plurality of stations each having a transmitter and receiver circuit and a selector switch with connecting lines extending to the selector switch of each station from the remaining stations, switch means at each station interposed between its own selector switch and its own receiver and transmitter circuit, said switch means being normally open, each station having a calling key and a signaling means with connections including the selector switch whereby the key at the calling station may be placed in circuit with the signaling device at the called station, each station having means dependent upon whether it is busy or is not busy for preventing or permitting the flow of current to its signaling means by a calling station key, and means at the calling station dependent upon and responsive to the flow of current to the signaling means at the called station according as flow of current is permitted or prevented as aforesaid for operating said switch means.

2,170,392
LOOPER APPARATUS
Gilbert J. Snyder, South Bend, Ind., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application April 8, 1937, Serial No. 135,694
2 Claims. (Cl. 91—55)



2. The combination with looper apparatus of the type having a plurality of looper bars movable in a predetermined path, and means for feeding a web thereto to form loops in said web extending between and supported on said bars, of a stop roll cooperating with said movable bars to determine the length of each of said loops and comprising a body of sponge rubber.

2,170,393
DEVICE FOR CONNECTING CABLE TO A BOX
Nils A. Tornblom, Chicago, Ill., assignor to Appleton Electric Company, a corporation of Illinois
Application April 1, 1938, Serial No. 199,346
2 Claims. (Cl. 285—164)

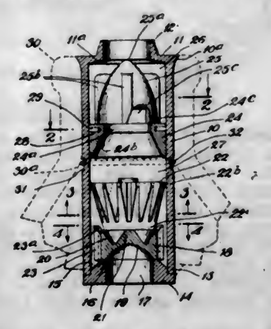


1. In combination, a sleeve adapted to be secured at one end to a support, the bore of the sleeve comprising cylindrical sections at the two ends, one of the cylindrical sections being much larger in diameter than the other, and an intermediate frusto conical section the smaller end of which is larger in diameter than the section of the bore of small diameter to form an abrupt shoulder between the same and the latter and the larger end of which is smaller than the end section of large diameter to form a second abrupt shoulder at the juncture with the latter, a cup-shaped member the chamber in which corresponds in size and shape to said frusto conical bore section, a sleeve-like rubber gasket fitting at its ends into said frusto conical bore section and said cup-shaped member, said gasket being of such axial length that said cup-shaped member is partially entered in the cylindrical bore section of larger diameter, and detachable fastenings securing said cup-shaped member and said sleeve together and adapted to draw the cup-shaped member into the bore of the sleeve.

2,170,394
TREATING METAL MIXTURES
Helmut von Zeppelin, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application June 25, 1938, Serial No. 215,913. In Germany July 1, 1937
2 Claims. (Cl. 75—121)

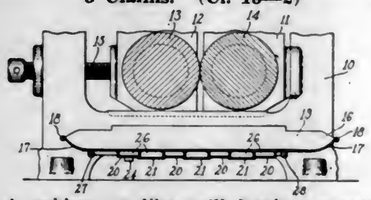
1. A method of removing magnesium from mechanical mixtures of metallic beryllium and metallic magnesium, which comprises treating the said mixtures with an aqueous solution containing at least about twice the theoretical amount of at least one member of the group consisting of ammonium chloride, ammonium sulphate, ammonium nitrate and ammonium acetate.

2,170,395
DISCHARGE VALVE FOR CONTAINERS
Augustus L. Anderson, Brooklyn, N. Y.
Application March 18, 1937, Serial No. 131,627
2 Claims. (Cl. 215—25)



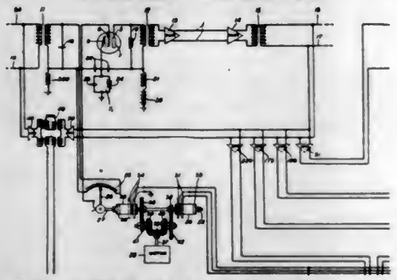
1. A discharge device for fluid containers, said device comprising a tubular casing open at opposite ends, a ring type valve seat in the casing intermediate its ends dividing the casing into inner and outer chambers, a valve in each of said chambers, one valve controlling communication between the chambers and the other the communication between the inner chamber and the container, means on said valves forming passages between the same and said casing, a circumferentially grooved tiltable element arranged in the inner chamber and cooperating directly with the valve therein to aid in the movement thereof into closed position, the upper surface of the second named valve having an upwardly directed central part adapted to be engaged by said element and said surface of the valve being recessed around said part.

2,170,396
TEMPERATURE-CONTROLLING MEANS FOR RUBBER MILL PANS OR THE LIKE
Fernley H. Banbury, Woodmont, Conn., assignor to Farrel-Birmingham Company, Inc., Derby, Conn., a corporation of Connecticut
Application February 7, 1938, Serial No. 189,183
8 Claims. (Cl. 18—2)



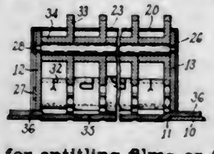
1. A rubber or like mill having cooperating rolls, supporting means below said rolls having a substantially plane upper surface to receive material therefrom, and means providing a fluid chamber below, and in heat exchange relation with, said supporting means.

2,170,397
SIGNAL TRANSMISSION SYSTEM
Bjorn G. Bjornson, New York, N. Y., and Newton W. Bryant, Lyndhurst, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 10, 1938. Serial No. 224,087
16 Claims. (Cl. 178—44)



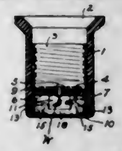
1. The method of controlling the volume of signals on a transmission line which consists in detecting and counting the number of amplitude variations above a predetermined value on the transmission line, in determining time intervals during which amplitude variations are counted, and in varying the gain on the transmission line according to the number and value of the amplitude variations above a predetermined value detected during a time interval.

2,170,398
DEVICE FOR ENTITLING FILMS
Samuel P. Caldwell, Hamden, Conn., assignor to The Greist Manufacturing Company, New Haven, Conn., a corporation of Connecticut
Application January 14, 1938, Serial No. 184,987
2 Claims. (Cl. 40—95)



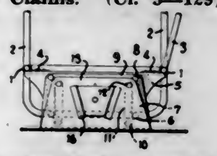
1. A device for entitling films or the like comprising a plate having openings therein, a plurality of tapes supported at the back of said plate in position to have a portion thereof viewed through said openings, a pair of spools associated with each tape on which the ends of the tape are adapted to be wound respectively, means to simultaneously and positively rotate said spools in the same direction to effect the unwinding of the tape from one spool and the winding of the tape on the other spool, backing means in said openings below the tape to support the latter against inward displacement, said means comprising a bar secured at the back of the plate and extending longitudinally of said openings, and the body portion of said bars being offset outwardly from the ends thereof to lie in the openings substantially flush with the outer surface of the plate.

2,170,399
ELECTRIC LAMP HUSK
Elliott I. Clemence, Millburn, N. J.
Application February 24, 1937, Serial No. 127,395
4 Claims. (Cl. 173—358)



3. An electric light bulb husk comprising an open ended tubular body member having at the outer end a space adapted to receive the threaded end of an electric light bulb; a closure member for the inner end; said body member having conductor openings into said body member and a pair of conducting means engaging said threaded end and passing out through said openings; said closure member being constructed of a moulded dielectric material in the form of a flanged disc, the flange being located at a right angle to said disc and being inset from the perimeter of said disc to form a body seat; said flange being bifurcated to form conductor wire inlets registering with said conductor openings, the flange having integral body engaging means located exteriorly between said bifurcations, and thin upstanding body entering guide lugs on said flanges adjacent said bifurcations and adapted to enter into said inner end.

2,170,400
FURNITURE
Frank A. Eichel, New York, N. Y., assignor to Tom Lamb Company, Inc., New York, N. Y., a corporation of New York
Application November 6, 1937, Serial No. 173,055
5 Claims. (Cl. 5—129)



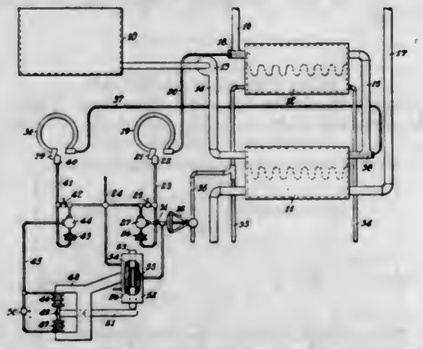
1. A glider comprising, in combination, a seat frame, a member secured to said seat frame, a supporting member resting on the floor, a floating member, links pivotally connected at their lower ends to the lower part of said first named member and at their upper ends to said floating member and swinging freely thereon, and additional links pivotally connected at their lower ends to the lower part of said floating member

and at their upper ends to said supporting member and freely swinging thereon, said last named links being disposed in parallelism to said first named links whereby the swinging movements of the seat frame will be confined substantially to a horizontal plane.

2,170,401
PROCESS FOR PREPARING ALKYL SULPHATES
Egi V. Fasce and John J. Owen, Baton Rouge, La., assignors to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application November 29, 1935, Serial No. 52,200
2 Claims. (Cl. 260—459)

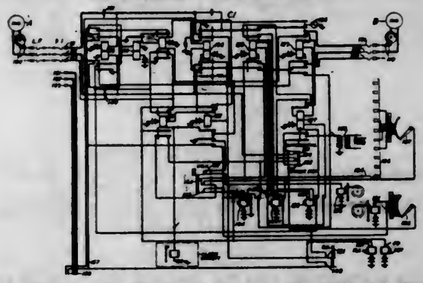
1. Process for preparing alkyl sulphates comprising bringing an alcohol having a chain of about 8 to 25 carbon atoms, said alcohol selected from the group consisting of aliphatic secondary monohydric alcohols and aliphatic tertiary monohydric alcohols, into contact with concentrated chlorsulphonic acid, and in which the reaction time for the sulfation reaction is not more than about fifteen minutes at a reaction temperature below 0° C.

2,170,402
AUTOMATIC TEMPERATURE CONTROL SYSTEM
Frederick A. Faust, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application October 1, 1937, Serial No. 166,734
14 Claims. (Cl. 236—18)



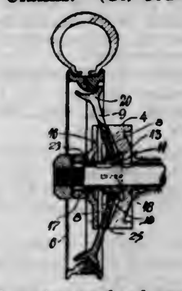
3. In a system for regulating the temperature of a fluid flowing through a heat exchanger in which heat is transferred to said fluid from another fluid; a temperature-sensitive element exposed to the final temperature of said flowing fluid emerging from the exchanger, primary control means subject to said temperature-sensitive element and adapted to regulate the said final temperature to a predetermined value through control of the temperature of said other fluid, a second temperature-sensitive element exposed to said flowing fluid prior to its entry to said exchanger, and normally inactive control means responsive to said last-named sensitive element and adapted to superimpose on the action of said primary control means a transient control action dominating said primary control action and tending to anticipate the control effect of temperature changes at said first-named temperature-sensitive element normally following temperature changes at said last-named temperature-sensitive element.

2,170,403
TELEPHONE SYSTEM
Myron C. Goddard, Garden City, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application February 27, 1937, Serial No. 128,148
10 Claims. (Cl. 179—27)



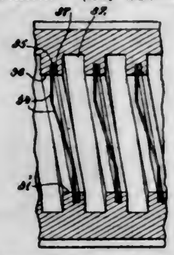
1. In a telephone system, subscribers' lines, connector switches for interconnecting calling and called lines, timing means for measuring a predetermined interval of time, a finder switch, and means for operating said finder switch to connect said timing means to any one of said connectors upon release of the connection by either one but not the other of two interconnected subscribers.

2,170,404
ARTILLERY TYPE WHEEL FOR VEHICLES
Josef Greaker, Skien, Norway
Application April 13, 1937, Serial No. 136,541
In Norway April 15, 1936
2 Claims. (Cl. 301—16)



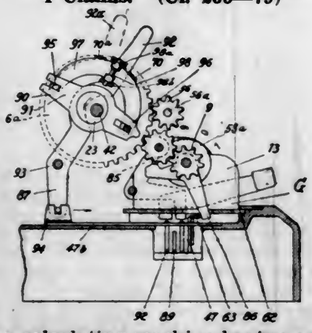
1. An artillery type wheel comprising a shaft, a sleeve on said shaft, mounted for sliding movement in the axial direction, external threads on one end of the said sleeve and the said shaft, a nut on the thread of the sleeve and a second or outer nut on the end of the said shaft adapted to contact with the outer surface of said nut on the thread on said sleeve, a circular disk mounted freely on the said sleeve and adapted to contact with the inner surface of the nut on the said sleeve, a conical surface portion having its diameter increasing inwardly being disposed on the other end of the said sleeve and an axial slot in the same, a ring with an annular groove and internal conical surface mounted on the said sleeve on the conical end of the same, spokes adapted to rest with their inner ends in the said groove in the said ring and with one side of each disposed against the said disk, a flange member comprising concentrically arranged fulcrum edges fixed to the said shaft and adapted to contact with the spokes upon the other side of each in radial alignment with the periphery of the said disk.

2,170,405
HEAT TRANSFER DEVICE FOR CORRUGATOR ROLLS
Henry B. Greenwood, Glen Arm, Md., assignor to F. X. Hooper Company, Inc., Glen Arm, Md., a corporation of Maryland
Application December 29, 1937, Serial No. 182,220
1 Claim. (Cl. 257—95)



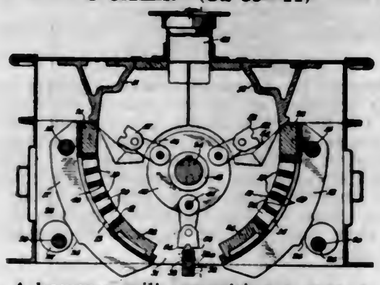
In a corrugator roll for making corrugated paper having a chamber within the roll and means for introducing steam into said chamber and discharging condensed water therefrom, thin sheet metal vanes in said chamber in heat-conducting relation with the outer surface of the roll and projecting inwardly from the walls of said chamber toward the axis of said roll beyond the area adjacent to the outer walls of the chamber occupied by condensed water and in heat-exchanging relation with the steam in said chamber to conduct heat from the steam within the roll chamber to the outer surface of the roll.

2,170,406
CALCULATING MACHINE
Christel Hamann, Neu-Babelsberg, near Berlin, Germany, assignor to Deutsche Telephonwerke und Kabelindustrie Aktiengesellschaft, Berlin, Germany, a corporation
Application December 29, 1933, Serial No. 704,376
In Germany October 30, 1933
4 Claims. (Cl. 235—79)



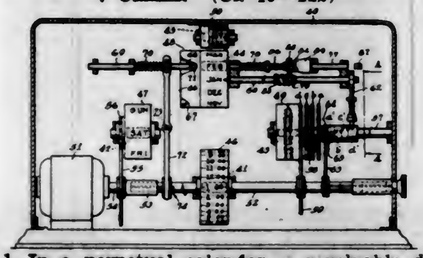
1. In a calculating machine having an actuating mechanism, a driving shaft therefor, an eccentric upon said shaft, counter-actuating fingers embracing said eccentric and projecting on either side of it, and a carriage movable along said mechanism and provided with accumulator wheels and counter-wheels adapted to be brought into co-operative relation to said mechanism and to said fingers respectively; that improvement which comprises two pivot pins movable to engage and pivotally mount said fingers, means carrying said pins on opposite sides of said eccentric and adjustable to engage one pin with a finger and the other pin with the other finger so that rotation of said eccentric will cause said fingers to oscillate in opposite directions, and means shiftable to one position for adjusting said carrying means to engage each pin with its finger and shiftable to a second position to engage each pin with the other finger.

2,170,407
HAMMER MILL
Stanley D. Hartshorn, Philadelphia, Pa., assignor to Pennsylvania Crusher Company, Philadelphia, Pa., a corporation of New York
Application November 2, 1936, Serial No. 108,699
8 Claims. (Cl. 83—11)



3. A hammer mill comprising a cage, a rotating hammer system within the cage and means for feeding material to the cage, said cage comprising screening members on opposite sides of the hammer system and having a permanent discharge opening between the lower margins of the screen members, below the axis of said system, and an impact plate located in said opening in the lower part of the path of travel of material impelled by the hammers along either screen member.

2,170,408
PERPETUAL CALENDAR
Carrol W. Hillcourt, San Francisco, Calif.
Application July 6, 1937, Serial No. 152,080
7 Claims. (Cl. 40—112)



1. In a perpetual calendar, a revolvable date dial having a gear thereon with 31 teeth and a one-tooth gear engageable with the former gear for turning the same, means for rotating the one tooth gear once a day whereby the first gear is completely rotated during a 31 day month, a second gear on the date dial having 30 teeth registering with same number of teeth on the first gear, means for shifting the one-tooth gear into engagement with the 30 teeth gear for effecting an incomplete revolution during a 30 day month, and a cam connecting a tooth of the 30 tooth gear with a tooth one step in advance of the 31 tooth gear, the cam being engageable by the single tooth for completing the full revolution of the dial when the one-tooth gear is shifted into engagement with the 31 tooth gear.

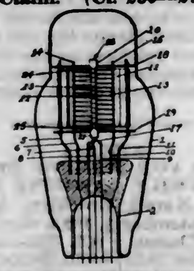
3. In a perpetual calendar, a revolvable date dial, shiftable means for revolving the same at the rate of one revolution per month, a month dial, means for imparting a rotary impulse to the latter for each revolution of the date dial, a cam on the month dial and means operated by the cam for operating the shiftable means, the cam comprising a cylindrical member having grooves cut into one end thereof.

2,170,409
STOVE OVEN
Robert W. Hoffman, St. Louis, Mo., and Otto F. Juenger, Belleville, Ill., assignors to Johns-Manville Corporation, New York, N. Y., a corporation of New York
Application June 1, 1936, Serial No. 82,734
4 Claims. (Cl. 220—9)



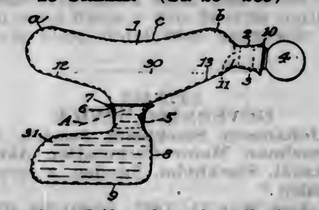
1. An oven comprising an outer box-like casing open at one side, shape-retaining insulating slabs tightly engaging within the casing to form a substantially self-supporting insulation structure in contact with the top, back and sides of the outer casing, a sectional inner casing including independent top, back and side members overlying said insulation structure, the edges of said outer casing at the open side thereof carrying insulating means receiving and holding in position the forward edges of the side members of the inner casing whereby said edges of said side members are restrained from lateral movement, the inner back member including means extending from its vertical edges engaging the rear edges of said side members to restrain them from outward movement, and means removably supported by said back member pressing the side members outwardly against said means on said back member to lock the side and back members in assembled relationship.

2,170,410
ELECTRON DISCHARGE TUBE
George J. Imboden, Emporium, Pa., assignor to Hygrade Sylvania Corporation, Salem, Mass., a corporation of Massachusetts
Original application March 29, 1937, Serial No. 133,541. Divided and this application April 2, 1938, Serial No. 199,550
1 Claim. (Cl. 250—27.5)



A radio tube mount comprising an indirectly heated cathode, a surrounding electrode for said cathode said electrode having at least one side rod projecting beyond the ends thereof, a pair of insulator spacer members having aligned openings to receive the ends of said cathode and said side rod, said cathode having a cylindrical body portion terminating in flattened tubular ends the junctures between the ends and body portion defining shoulders, each of said spacer members having a perforation substantially the same as the peripheral cross-section of said end portions whereby said cathode is positively locked against turning, and means for fastening said spacer members on said side rod so that they abut against said shoulders at opposite ends of said cathode.

2,170,411
SEPARATORY FLASK
Morris B. Jacobs, Brooklyn, and Alexander A. Singer, New York, N. Y.
Application June 11, 1937, Serial No. 147,620
15 Claims. (Cl. 23—259)



15. A device of the class described comprising a lower gravity flask having a flat base and an upstanding off-set neck whose axis is substantially perpendicular to and passes through said base; an approximately horizontal elongated upper extraction flask closed at one end and having a stoppered opening at the other, said upper flask being at its lower part rotatably and separably mounted on and connected to said upstanding neck, in such position that the principal axis of the upper flask as a whole will remain in a plane substantially parallel with said base; said base being of sufficient size to support the device.

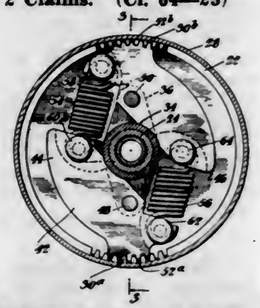
2,170,412
CIRCUIT BREAKER
Oliver S. Jennings, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application December 17, 1936, Serial No. 116,323
12 Claims. (Cl. 200—88)



1. In a circuit breaker, relatively movable contacts, an actuating member movable from a normal latched position to an operative position to open said contacts, means biasing said member to its operative position, a pair of toggle links, one of said links having one end pivoted to a fixed support, the other link having one end pivoted to the opposite end of said one link and its other end pivoted to said actuating member, said links occupying a normal position when said member is in its normal position, in which the largest component of the force exerted by said biasing means on said member is carried by the pivot

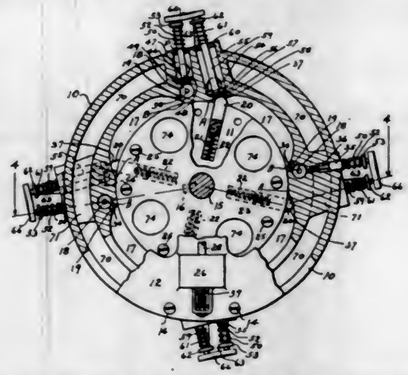
connection of said one link to the fixed support and only a small component of the force tends to move said links away from their normal position, an electromagnet including a pivoted armature movable from a normal position to an attracted position, a bimetallic element positioned in the magnetic field of said electromagnet having one end secured to a fixed support, means connecting said armature to said bimetallic element for movement thereby, said bimetallic element when heated, adapted to deflect in a direction to move said armature toward its attracted position, a latch plate carried by said armature for engaging one of said links in the normal position of said armature for holding said links in their normal position to hold said member in its normal position, the pivot axis of said armature being positioned close to the line of action of the small component of force which tends to move said links away from their normal position so that only a small force is necessary to disengage said latch plate from said link.

2,170,413
GOVERNING DEVICE
Martin Johansson, Stockholm, Sweden, assignor to Hesselman Motor Corporation Aktiebolag, Henriksdal, Stockholm, Sweden, a corporation of Sweden
Application May 11, 1937, Serial No. 141,922
In Germany May 12, 1936
2 Claims. (Cl. 64—25)



1. In apparatus of the character described, governing means for altering the angular relation between a rotary driving element and a rotary driven element in accordance with variations in speed of operation of the driving element comprising a cup shaped member adapted to be connected to one of said elements, said member having a hub portion and a rim portion and internal gear teeth on said rim portion, a second member mounted on said hub portion and having relative rotational movement with respect thereto, said second member being adapted to be connected to the other of said elements, a pair of congruent centrifugal weights eccentrically mounted for pivotal movement on said second member, each of said weights having gear teeth meshing with said internal gear teeth to transmit drive from one to the other of said members and to produce angular displacement between said members upon pivotal movement of the weights, and a pair of loading springs for said weights, said loading springs mutually interconnecting the weights at different distances from their respective pivot points, said springs being symmetrically arranged with respect to the axis of rotation of said members, and the opposite ends of each spring being respectively connected to the different weights at different distances from the pivot points thereof.

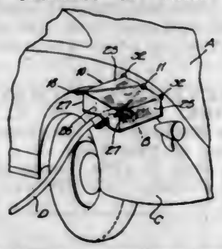
2,170,414
ROTARY DIESEL ENGINE
Bernhard G. Jutting, New Brunswick, N. J.
Application September 17, 1937, Serial No. 164,293
4 Claims. (Cl. 123—16)



2. An engine of the type described comprising a cylindrical casing; a plurality of equally spaced fuel compression-chambers formed in said casing; ignition means in said compression chambers; a pair of side plates secured to said casing and provided with concentric bearings; a shaft rotatingly mounted in said bearings; fuel inlets into said compression chambers; a plurality of expansion chambers formed in the interior of the casing and adjacent to the compression chambers; ports leading from the compression chambers to the expansion chambers; exhaust ports leading from the ends of the expansion chambers furthest removed from the compression chambers; valves in the exhaust ports; a rotor keyed to the shaft; a plurality of spring-actuated vanes slidingly mounted, radially, in the rotor; said vanes made of a width equal to the width of the expansion chambers and adapted to move through said chambers and to move the rotor, as the fuel in the compression chambers is ignited and expanded behind them; a scavenging-air inlet connected with each fuel compression chamber; a valve for closing this inlet; exhaust outlets associated with the exhaust ports; another valve for closing these outlets; means for opening and closing said valves in timed relation to the rotation of the rotor; an air compression cylinder associated with each set of the fuel compression and expansion chambers; an opening leading from the expansion chamber to said cylinder; another opening leading from said cylinder to the fuel compression chamber; a piston associated with each of said cylinders; and means for reciprocating said pistons, in timed relation to the rotor, to compress the air exhausted from the expansion chamber into the fuel compression chamber.

2,170,415
RAIN SHIELD FOR FILLING OPENINGS OF AUTOMOBILE GASOLINE TANKS
Louis Karell, Brooklyn, N. Y.
Application September 3, 1938, Serial No. 228,341
7 Claims. (Cl. 135—5)

7. A collapsible rain shield device comprising a flexible covering of waterproof material, a foldable frame structure on which said covering is mounted, and suction means carried by said frame structure for detachably securing the shield device in an unfolded position to a portion of an automobile above the gas tank filling opening thereof for shielding the filling opening against the entrance of water therethrough



during a gas filling operation during inclement weather.

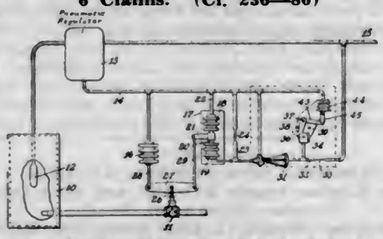
2,170,416
LAMINATED CLOTH
Harry W. Klinger, Wilmington, Del., assignor to Hercules Powder Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application March 4, 1936, Serial No. 67,075
15 Claims. (Cl. 154—46)

1. An article comprising a plurality of layers of cloth adhered by means of a bonding composition including a cellulose acetopropionate, the said cellulose ester constituting the major proportion of the composition and being characterized by an analysis within the range of about 10% acetyl—34% propionyl to about 26% acetyl—18% propionyl, a melting point within the range of about 130° C. to about 220° C., and a moisture absorption of not more than 5.5%, the said article being resistant to the action of alkaline washing solutions.

2,170,417
SALAD DRESSING
Harry M. Levin, Philadelphia, Pa.
No Drawing. Application May 20, 1938, Serial No. 208,995
4 Claims. (Cl. 99—144)

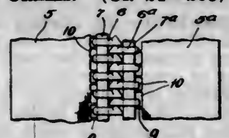
2. A homogeneous viscous emulsified salad dressing base comprising a lacteal fluid, a starch in sufficient proportions to impart a semi-solid consistency to said fluid, a small amount of a hydrophilic colloid and a small proportion of an acid selected from the group consisting of acetic acid, lactic acid and citric acid.

2,170,418
AUTOMATIC CONTROL SYSTEM
Arthur R. Mabey, Waterbury, Conn., assignor to The Bristol Company, Waterbury, Conn., a corporation of Connecticut
Application September 3, 1937, Serial No. 162,277
6 Claims. (Cl. 236—86)



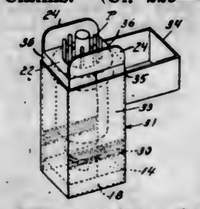
1. In a fluid-pressure-actuated control system including a first bellows member and a second bellows member, together with a conduit connecting the same and including a constriction whereby to delay the action of the second bellows member, and a source of fluid under pressure connected with the first bellows member: a second conduit by-passing the constriction of said first-named conduit and a pressure-actuated valve controlling the passage of fluid through the former conduit, and means subject to the pressure applied to said first bellows to control said valve and including means to vary momentarily the pressure on said valve.

2,170,419
STRINGER TAPE
Davis Marinsky, Bronx, N. Y., assignor to Whitehall Patents Corporation, Bronx, N. Y., a corporation of New York
Application March 6, 1937, Serial No. 129,320
2 Claims. (Cl. 24—205)



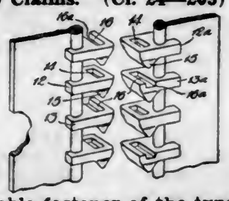
2. In a separable slide fastener, a tape having a bead at one edge thereof, a plurality of coupling links cast on said bead and uniformly spaced thereon, said tape and bead being connected together by spaced substantially parallel strands, each strand being of less thickness, as measured lengthwise of the tape, than that of one of said links, whereby at least part of each link will pass through a space between adjacent strands, regardless of the position of that link relative to a strand, certain of said strands being at least partially covered by certain links.

2,170,420
PAPER RECEPTACLE
John P. Markert, Stamford, Conn.
Application February 12, 1936, Serial No. 63,623
4 Claims. (Cl. 229—6)



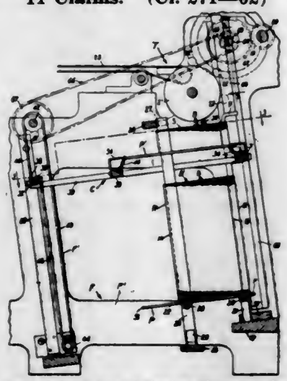
1. A receptacle for articles such as radio tubes and electric bulbs comprising an inner wrapper or holder having end panels supporting opposite ends of the tubes or bulbs, at least one of said end panels having an opening through which the electrodes of the tubes or bulbs project, and an outer container within which the inner holder is inserted to completely house the tubes or bulbs, said holder being secured within said container against relative movement or removal therefrom to prevent access to the contents without mutilating or destroying the holder and container, and a cover for the end of said container adjacent said electrodes adapted to be opened to permit testing of said tube or the like, and means on the end of said inner wrapper or holder to guide opening and closing movements of said cover, said means comprising upstanding tabs having rounded corners around which the cover moves.

2,170,421
COUPLING LINK FOR SEPARABLE FASTENERS
Louis H. Morin and Davis Marinsky, Bronx, N. Y., assignors to Whitehall Patents Corporation, New York, N. Y., a corporation of New York
Application July 16, 1937, Serial No. 153,962
9 Claims. (Cl. 24—205)



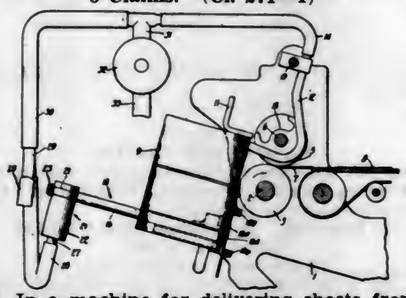
9. A separable fastener of the type comprising two stringers having coupling links spaced longitudinally thereof and cast thereon, each link having a recess in the top thereof and a projection on the bottom thereof, the links on each stringer being divided into two series having different forms of recesses, with the links of one series alternating with those of the other, the recess in each link of one series being defined by sides whose entire upper edges are within the surface of the top of the link, and the recess in each link of the other series opening laterally through one of the sides of the link and being defined by sides at least one of whose edges is in one of the sides of the link and below the top surface of the link, said recesses in said other series on one tape opening through sides of the links on one side of the fastener and on the other tape opening through sides of the links on the other side of the fastener, and the links in each series on one tape being staggered relative to the links in the corresponding series on the other tape.

2,170,422
ENVELOPE MACHINERY
Abraham Novick, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a corporation of New York
Application July 6, 1936, Serial No. 89,085
11 Claims. (Cl. 271—62)



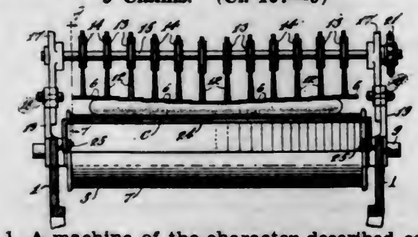
1. In a machine for fabricating or treating envelope blanks and like planiform articles, in combination, a support adapted to receive in succession a series of platforms or flights for accumulation of a stack of said articles on each of said platforms, an elevator mechanism comprising upright guides associated with said support and forming a path for said platform, and a cage reciprocable in said guides, having a hatchway adapted to receive said platform, means on said cage surrounding said hatchway, for transferring said platform from said support to said cage, and means to raise said cage with said platform and superimposed stack of articles to a desired height.

2,170,423
SHEET FEEDING MECHANISM
Abraham Novick, Flushing, N. Y., assignor to F. L. Smithe Machine Co., Inc., New York, N. Y., a corporation of New York
Application July 2, 1938, Serial No. 217,142
5 Claims. (Cl. 271—1)



1. In a machine for delivering sheets from a sheet stack, in combination, stack supporting means for supporting the sheets edgewise in stack formation, said supporting means being disposed to support the stack at a slight inclination, means for acting upon the lower end of the stack to remove sheets from the stack one by one, and means attached to and carried by the support for vibrating the support to facilitate gravity feeding of the stack along the support toward the sheet removing means, and pneumatic means for intermittently operating said vibrating means.

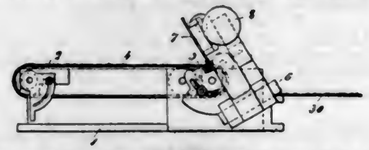
2,170,424
LOAF MOLDER AND EXTENDER
Edward T. Parsons, Upper Montclair, N. J., assignor to Thomson Machine Company, Belleville, N. J., a corporation of New Jersey
Application January 28, 1938, Serial No. 187,350
9 Claims. (Cl. 107—9)



1. A machine of the character described comprising opposed dough working elements to receive a piece of dough between them, and means for operating said elements to roll said piece of dough between said elements and simultaneously continuously reciprocate one of said elements toward and from the other to alternately apply and relieve pressure to and from said piece of dough to form the latter into an elongated roll.

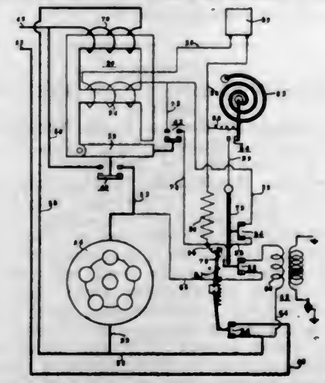
2,170,425
MACHINE FOR SLICING SALMON
Valter Ramses Angelo Dalenius and Jean Ludvig Nyström, Stockholm, Sweden
Application March 31, 1938, Serial No. 199,102
In Sweden April 12, 1937
3 Claims. (Cl. 17—4)

1. A machine for slicing salmon comprising a machine frame, an endless conveyor for pieces of salmon mounted in said frame, means for driving said conveyor step by step in a forward direction, means for reciprocating said upper knife back and forth in the longitudinal direction of said holder, a second or lower knife mounted to be reciprocated back and forth immediately in front of and substantially on a level with said



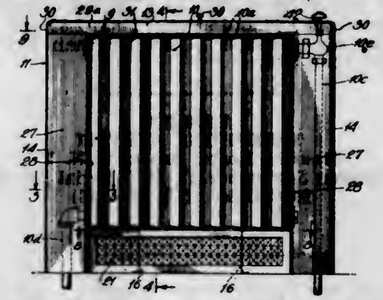
conveyor, a transmission device driven by a motor and adapted to reciprocate said knives back and forth in opposite directions, the upper knife mounted on the holder being adapted to cut the piece of salmon from the top side down to the skin at the underside upon the holder being turned downwards, and the second lower knife being thereupon adapted to cut loose from the skin the slice thus cut by the upper knife.

2,170,426
CONTROL APPARATUS
Estel C. Raney, Columbus, Ohio, assignor to Ranco Incorporated, Columbus, Ohio, a corporation of Ohio
Application May 19, 1937, Serial No. 143,559
10 Claims. (Cl. 158—28)



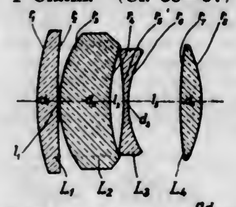
1. A control system for a fuel burning device comprising in combination, an electric circuit for controlling the fuel burning device; electrically operated means for controlling said circuit; a control circuit for the electrically operated means; a thermostat in said control circuit for controlling the operation of the electrically operated means; a safety switch operable for rendering the fuel burning device inoperative; a second thermostat for operating the safety switch after a predetermined period of heating; electric heating means in the control circuit for heating the last mentioned thermostat when the circuit is energized; a third thermostat responsive to the establishment of combustion for preventing operation of the safety switch by the second thermostat; and a second switch operated by the second thermostat, subsequent to the establishment of combustion for intermittently rendering the said heating means inoperative for maintaining the second mentioned thermostat at a substantially constant temperature during operating periods of the fuel burning device.

2,170,427
RADIATOR CONSTRUCTION
Frank C. Reynolds, New York, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware
Application January 8, 1938, Serial No. 183,972
6 Claims. (Cl. 257—136)



1. An apparatus of the character described comprising a supporting frame including a front wall member fixed thereon and having air inlet openings therein, a heating element mounted upon said support, and an enclosure for said heating element provided with air outlet openings and including end members; said front wall member bridging the space between said end members below said heating element and detachably secured at its ends to said end members.

2,170,428
FOUR-LENS PHOTO-OBJECTIVE
Robert Richter, Jena, Germany, assignor to the firm of Carl Zeiss, Jena, Germany
Application May 24, 1938, Serial No. 209,640
In Germany May 31, 1937
1 Claim. (Cl. 88—57)

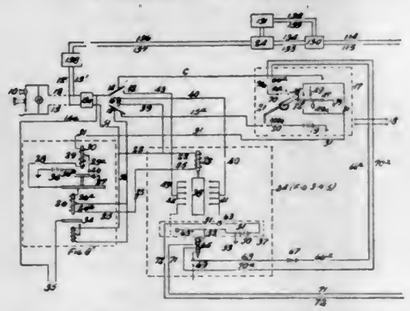


$r_1 = +\ 85.4$			n_d	ν
$r_2 = -\ 500$	$d_1 = 7.7$		1.6138	56.3
$r_3 = +\ 44.5$	$l_1 = 0.5$			
$r_4 = +\ 70.0$	$d_2 = 19.0$		1.6138	56.3
$r_5 = -\ 135$	$l_2 = 4.5$			
$r_6 = +\ 34.3$	$d_3 = 2.0$		1.7174	29.5
$r_7 = +\ 146$	$l_3 = 19.0$			
$r_8 = -\ 46.8$	$d_4 = 8.0$		1.6138	56.3

In a photographic objective comprising four single lenses in axial alignment and spaced by air, the third lens being dispersive and the other lenses convergent, the front surfaces of the first and the second lens and the rear surface of the fourth lens being convex and having radii of curvature numerically smaller than the focal length of the objective, the front surface of the first lens having a radius of curvature greater than 55% of the focal length of the objective, and the rear surface of the second lens being concave and having a radius of curvature corresponding to at most the focal length of the objective, the rear surface of the third lens being concave and having a radius of curvature numerically smaller than that of the front surface of

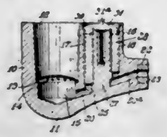
this lens and greater than 25% of the focal length of the objective, the axial distance apart of the third and the fourth lens being greater than the axial distance apart of the third and the second lens and smaller than 30% of the focal length of the objective, the axial thickness of the second lens being greater than 12% and smaller than 30% of the focal length of the objective, and the third lens being of glass of a refractive index n_d greater than 1.66 and smaller than 1.89 and having an Abbe number ν smaller than 33.0 and greater than 23.0.

2,170,429
TELEPHONE SYSTEM
Maurice Rosin, Brooklyn, N. Y.
Application September 27, 1935, Serial No. 42,400
10 Claims. (Cl. 179—18)



1. In a telephone system, a central office, a plurality of line circuits terminating therein, each having impulse mechanism connected therewith, a switch common to said circuits, a switch frame and operating mechanism therefor connected to said switch, said frame carrying a plurality of contacts connected to said line circuits, operating mechanism for actuating said frame under control of said impulse mechanism for closing contacts connected to two of said line circuits, and means for locking said switch frame to prevent other line circuits from operating the same until after said closed contacts are opened.

2,170,430
SMOKING PIPE
Milton Schnaier, New York, N. Y.
Application February 18, 1937, Serial No. 126,314
5 Claims. (Cl. 131—215)



1. A smoking pipe comprising a bowl, a stem portion extending therefrom, the wall of said bowl and said stem portion having a smoke conducting passage therein including ascending and descending portions in said wall open at the outer ends thereof, a tubular bridging member engageable with the open ends of said ascending and descending portions for establishing communication therebetween, and resilient means disposed within said wall and connected to said bridging member for retaining the same in engaged position.

2,170,431
ALLOY
Hans Heinrich Schwarzkopf, Reutte, Tyrol, Austria, assignor to N. V. Molybdenum Company, Reutte, Tyrol, Austria
No Drawing. Original application September 12, 1935, Serial No. 40,302. Divided and this application November 13, 1937, Serial No. 174,352. In Germany September 12, 1934
3 Claims. (Cl. 75—153)

1. An alloy, particularly adapted for electrical purposes and as prealloy for electrical material, consisting of 94.7% copper, 4% silver, 1% cadmium and 0.3% boron.

2,170,432
HARD METAL TOOL ALLOY
Paul Schwarzkopf, Reutte, Tyrol, Austria, assignor to American Cutting Alloys, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application July 27, 1937, Serial No. 155,919. In Germany May 16, 1929
8 Claims. (Cl. 75—136)

1. A cemented hard metal sintered by heat treatment and consisting of auxiliary metal selected substantially from the iron group in amounts from about 3% to 22% and two carbides of elements selected from the third, fourth, fifth and sixth group of the periodical system, said carbides containing together substantially more than 2.6% carbon and being present in finely divided form and proportions suitable to yield mixed crystals of approximately greatest hardness, such mixed crystals formed in a substantial amount by heat treatment.

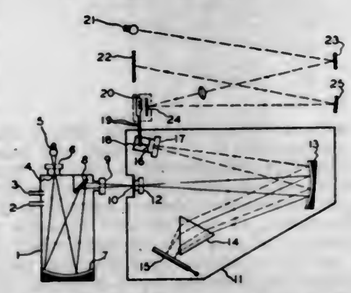
2,170,433
METHOD OF PRODUCING A HARD METAL ALLOY
Paul Schwarzkopf, Reutte, Tyrol, Austria, assignor to American Cutting Alloys, Inc., New York, N. Y., a corporation of Delaware
No Drawing. Application September 16, 1937, Serial No. 164,166. In Germany May 16, 1929
7 Claims. (Cl. 75—137)

1. In a method of producing a hard metal alloy, in particular for tools and parts thereof, the steps of mixing auxiliary metal substantially of the iron group in amounts from about 3% to 22% and at least two hard and refractory carbides in substantial amounts of elements selected from the third, fourth, fifth and sixth group of the periodical system, said carbides present in finely divided state and in suitable proportions to yield approximately hardest mixed crystals when alloyed, such approximate proportions indicated by integer number ratios between and including 1:1 to about 1:3 of the molecular weights of the contained carbides, shaping the mixture and alloying said carbides and metal by sintering at temperatures between about 1400° C. to 1600° C. until said mixed crystals are formed in substantial amount.

2,170,434
ARTICLE OF MANUFACTURE AND METHOD OF MAKING THE SAME
William R. Seigle, Mamaroneck, N. Y., assignor to Johns-Manville Corporation, New York, N. Y., a corporation of New York
No Drawing. Application October 12, 1935, Serial No. 44,656
4 Claims. (Cl. 106—24)

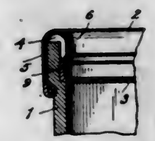
1. A compressed and hardened electric insulator sheet comprising cement, asbestos fibres distributed as reenforcement therethroughout, and a water-repellent agent selected from the group consisting of paraffin wax, zinc stearate, and aluminate stearate in proportion of one to three parts by weight to one hundred parts of the said sheet, the said agent being intimately associated with the said fibres, whereby the moisture absorptiveness of the sheet is substantially reduced.

2,170,435
GAS ANALYSIS APPARATUS
William J. Sweeney, Westfield, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 14, 1937, Serial No. 179,677
6 Claims. (Cl. 73—51)



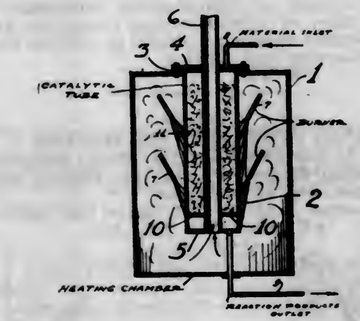
1. A process for detecting minute amounts of ethane and higher hydrocarbons in soil gases which comprises subjecting the hydrocarbons in the soil gas to combustion, passing infrared rays through the combustion products and observing the amount of energy absorbed from a band of rays from which carbon dioxide has the power to absorb energy.

2,170,436
CAN
William Martin Vogel, Bloomfield, N. J.
Application March 26, 1938, Serial No. 198,173
1 Claim. (Cl. 229—5.6)



A closure for cans comprising, a can body body composed of compressible material such as cardboard, a closure cap for fitment over one end of the can body, said closure cap being formed at its periphery with an upwardly extending wall having an outwardly and downwardly extended flange portion co-operating with the wall to form a channel between said wall and the flange into which the end of the can body is fitted, said flange being of greater depth than the wall, the flange having its end provided with a continuous inwardly-rolled bead located below the lower end of the wall and thereby stiffening the end of the flange below the end of the wall, the wall having a laterally distorted portion directed into the channel above the stiffened, beaded end of the flange and co-operating with said stiffened, beaded end of the flange to engage, grip and distort a portion of the compressible body of the can between them.

2,170,437
PROCESS FOR CARRYING OUT ENDOTHERMIC REACTIONS
Alexis Voorhies, Jr., Baton Rouge, La., assignor to Standard Oil Development Company, a corporation of Delaware
Application December 31, 1935, Serial No. 56,863
3 Claims. (Cl. 196—52)



2. A process for the catalytic dehydrogenation of a hydrocarbon which comprises passing said hydrocarbon thru an annular chamber packed with a dehydrogenation catalyst, passing a fluid heating medium over the exterior of said annular chamber in heat exchange relation therewith in a direction concurrent with the flow of reaction material therethru whereby a hot zone is established in the reaction space, and then passing said fluid heating medium thru the interior of said annular chamber in heat exchange relation therewith in a direction countercurrent to the flow of reaction material therethrough, and maintaining indirect heat exchange relation between said countercurrent flowing heating medium and said hydrocarbon for a substantial portion of the travel of the latter before it reaches said hot zone.

2,170,438
OPTICAL APPARATUS
Merrill Waide, Miami, Fla., assignor to Opticolor, Incorporated, New York, N. Y., a corporation of New York
Application February 21, 1938, Serial No. 191,649
7 Claims. (Cl. 88—1)

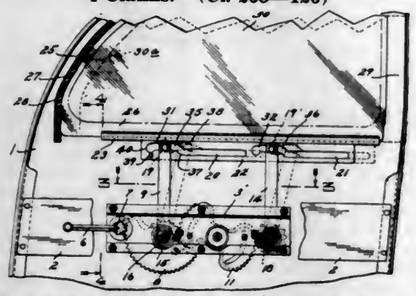


1. In apparatus for color photography on film and projection on screens, a lens unit comprising a positive lens and two mutually perpendicular cylindrical lenses, said lenses being disposed in juxtaposition along the main optical axis of the apparatus in the order of positive lens, cylindrical lens and cylindrical lens, plural prisms each having a face surface perpendicular to the optical axis and lying in an approximately common plane displaced from said lens unit, said prisms having a common point lying on the optical axis of the system, means for coloring differently the rays of light passing through each of said prisms, means for independently adjusting each lens with reference to the other lenses and with reference to the prisms, and additional means for adjusting the prisms with reference to each other.

2,170,439
ELASTIC FIBER
Peter J. Wiezevich, Elizabeth, N. J., now by judicial change of name to Peter J. Gaylor, assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application April 2, 1936, Serial No. 72,443
5 Claims. (Cl. 28—1)

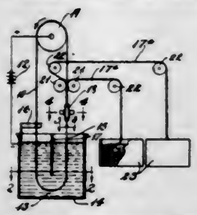
1. An article of manufacture comprising an odorless fiber of polyisobutylene having an average molecular weight of 100,000 to 250,000 suitable for weaving into fabrics.

2,170,440
SASH OPERATING MECHANISM
Edward L. Ackerman, Detroit, Mich., assignor to Ackerman-Blaesser-Fezzey, Inc., Detroit, Mich., a corporation of Michigan
Application June 24, 1937, Serial No. 150,139
4 Claims. (Cl. 268—126)



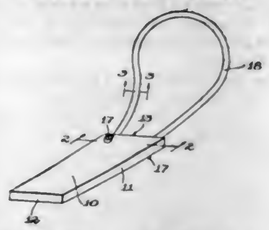
1. In sash operating mechanism, a bracket supporting the lower edge of the glass, a pair of arms each mounted at one end to turn on an axis, the bracket having a slot for each of the arms, a roller on the free end of the arms and riding in the slots, said slots each having an arcuate portion at similar ends thereof having the same axis as the roller and into which the rollers ride as the glass is raised vertically to closed position, means on the bracket engaged by an arm as the arms are turned to the end of the arcuate portion tending to move the glass laterally while in its vertically closed position, and a gear train for turning the arms in parallel relation to raise or lower the glass.

2,170,441
METHOD FOR MAKING RUBBER STRIPS
Raymond W. Albright, Akron, Ohio, assignor to American Anode Incorporated, Akron, Ohio, a corporation of Delaware
Application October 5, 1933, Serial No. 692,303
3 Claims. (Cl. 18—54)



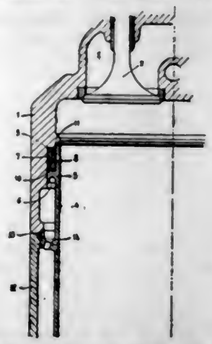
1. The method which comprises continuously passing a surface through an aqueous dispersion of rubber, depositing a continuous coating of water-containing rubber coagulum thereon, severing the coating longitudinally into strip form promptly and before substantial drying of the coagulum has occurred, and drying the strips of coagulum.

2,170,442
TWITCH
Harry F. Banholzer, Chicago, Ill.
Application June 18, 1937, Serial No. 148,888
5 Claims. (Cl. 119—96)



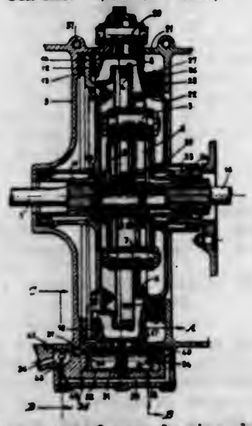
1. In a twitch the combination with a wooden handle, rectangular in cross section and tapering toward one end and having a pair of parallel passages in one end thereof, communicating at their inner ends with openings extending in opposite directions, to and through opposite faces of the handle, of a length of rope rebent with its end portions passing through said passages and cooperating openings to be knotted against the outer opposed faces of the handle, and a rubber tube mounted on the exposed portion of the rope, and fitting tightly thereon.

2,170,443
MOUNTING OF CYLINDERS IN MOTORS
Marius Jean-Baptiste Barbarou, Neuilly-sur-Seine, France
Application July 8, 1937, Serial No. 152,589
In France September 9, 1936
3 Claims. (Cl. 123—173)



3. In an internal combustion engine having a cylinder liner and cylinder head, an annular inwardly directed ledge on the head, an annular circumferentially projecting ledge on the liner, said ledges being spaced apart to form a space therebetween, a pair of concentric conical rings located in said space with their slanting faces in contact and their larger cross-sectional ends seated on the ledges, the narrower ends of the conical rings spaced from the opposite ledge to permit play, and means for clamping the head in operative position, whereby the wedging action of the rings between liner and head effectively effects a sealing action therebetween.

2,170,444
TWO-SPEED STEP-UP GEAR WITH HYDRAULIC CONTROL
Marius Jean-Baptiste Barbarou, Neuilly-sur-Seine, France
Application July 8, 1937, Serial No. 152,590
In France July 10, 1936
2 Claims. (Cl. 74—277)



1. In a step-up speed gear having driving and driven shafts, planetary gear pinions to which said shafts are in engagement, and two outer gears meshing with the pinions and adapted to be selectively locked, an axially movable ring adapted to lock one and release the other outer gear, said ring co-operating with friction material on the outer gears for braking purposes, and opposed sets of pistons circumferentially distributed around the ring for laterally moving the same against one or the other outer gear.

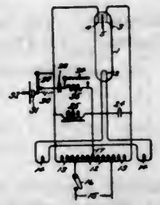
2,170,445
ROOFING GRANULE AND METHOD OF MAKING
Clarence L. Colbert, Elizabeth, N. J., assignor, by mesne assignments, to Empire Trust Company, New York, N. Y., a corporation of New York, as trustee
Application July 14, 1931, Serial No. 550,637
11 Claims. (Cl. 25—156)



1. Method of making roofing granules, which comprises as steps reducing a raw clay or shale to finely divided condition, mixing with water to form a plastic mass, forming the same into thin sheets, breaking to a granular form, and subjecting to a firing temperature to harden the same.

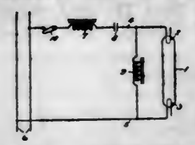
2,170,446
ELECTRIC DISCHARGE APPARATUS
Martin A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 22, 1938, Serial No. 197,526
10 Claims. (Cl. 176—124)

1. In combination, an electric discharge device having a cathode and a plurality of anodes, a transformer having spaced points of its secondary connected each with one of said anodes and an intermediate point thereof connected with said cathode, means for applying a starting voltage between said cathode and one of said anodes,



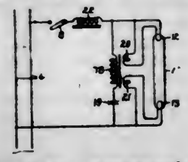
said transformer being constructed to provide a path for the uni-directional flux resulting from the operation of said device, and means responsive to said flux for rendering said starting means inoperative.

2,170,447
ELECTRIC DISCHARGE APPARATUS
Martin A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 22, 1938, Serial No. 197,527
11 Claims. (Cl. 176—124)



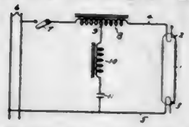
11. In combination, a source of alternating current supply, a circuit connected to be supplied therefrom having capacitance and inductance, an electric discharge device having a starting voltage higher than the voltage of said source connected across a portion of said inductance, the amount of capacitance in the circuit being more than sufficient to cause a condition of resonance therein and the amount of inductance of said portion being sufficient to produce a starting voltage for said device.

2,170,448
ELECTRIC DISCHARGE APPARATUS
Martin A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 22, 1938, Serial No. 197,528
5 Claims. (Cl. 176—124)



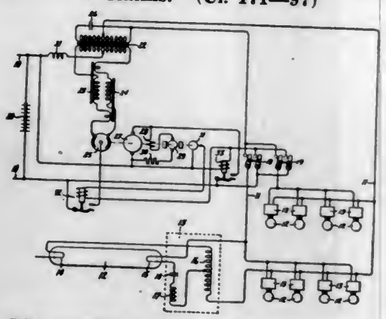
4. In combination, a source of alternating current supply, an electric discharge device provided with thermionic electrodes and connected to be supplied therefrom, a ballast reactor in said connection, a transformer having a primary and a plurality of secondaries, a capacitor, means connecting said primary and said capacitor in series across said device, said capacitor and reactors form a circuit in partial resonance whereby a starting voltage is supplied to said device and means connecting said secondaries with electrodes for supplying heating current thereto.

2,170,449
ELECTRIC DISCHARGE APPARATUS
Martin A. Edwards, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 22, 1938, Serial No. 197,529
9 Claims. (Cl. 176—124)



1. In combination, a source of alternating current supply, an electric discharge device, connections between the electrodes of said device and said source, a transformer having its secondary included in one of said connections, and a branch circuit including a reactor and a capacitor arranged in series and connected to be supplied from said source through the primary of said transformer.

2,170,450
ILLUMINATING CIRCUITS
Martin A. Edwards and Burnice D. Bedford, Schenectady, N. Y., assignors to General Electric Company, a corporation of New York
Application May 28, 1938, Serial No. 210,715
7 Claims. (Cl. 171—97)



6. The combination comprising a source of direct current and a plurality of alternating current load circuits, an inverter means arranged to interconnect said circuits, said inverter comprising a plurality of inductive windings, a rotary distributor and a plurality of saturable reactors connected in series relation with one of said inductive windings and said distributor and arranged to be energized from said direct current, said saturable reactors operating to decrease the rate of change of current through said distributor means at the end of the conducting intervals and during the circuit interrupting operation, a direct current motor for driving said distributor and a control circuit for controlling said inverter and said motor in accordance with the demand for energy by said load circuits, said control circuit including a plurality of switches, said switches being arranged to complete the circuit from said load devices to said inverter apparatus and simultaneously complete a circuit through an auxiliary control circuit, said control circuit including a relay operating to control the energization of said motor, and a relay for controlling the energization of said inverter apparatus, means connected in series with said latter relay for controlling the operation thereof in response to a predetermined speed of said motor, and means for maintaining the speed of said motor relatively constant.

2,170,451
WELL REAMING TOOL
John Grant, Los Angeles, Calif.
Application June 22, 1937, Serial No. 149,661
7 Claims. (Cl. 255—76)



1. A well tool which comprises a drill string having a drilling bit at its lower end and having a circulation passage adapted to convey circulation fluid under pressure to the bit, said drill string including a normally collapsed reamer having an expansible cutter and a relatively movable cutter expanding assembly provided with a flow passage having a normal flow capacity greater than that of the smallest part of said circulation passage and operable by the pressure of said circulation fluid to expand said cutter, and means for restricting the effective flow capacity of said flow passage to less than that of the smallest part of said circulation passage and effect translation of the cutter expanding assembly to expand said cutter.

2,170,452
EXPANSIBLE REAMER
John Grant, Los Angeles, Calif.
Application October 11, 1937, Serial No. 168,334
Renewed November 8, 1938
11 Claims. (Cl. 255—76)

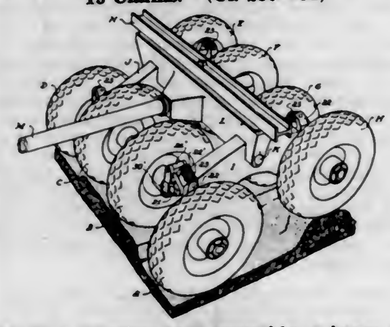


2. In an expansible reamer, the combination of: a tubular body adapted to be disposed above a drilling bit to constitute a portion of a rotary drill string conveying circulation fluid under pressure to said bit; a reaming cutter carried by said body, normally in collapsed position; a cutter expanding assembly slidable in said body and having a fluid passage; and a go-devil having a longitudinal bore normally closed by a fracture plate, and adapted to be sent down the drill string to engage said assembly and close its fluid passage so as to be subjected to the full power of the circulation fluid pressure and be translated thereby to move said assembly to cutter expanding position, said fracture plate being of such thickness and strength as to withstand the pressure required to expand the reamer and to thereafter be fractured by a predetermined excess pressure to reestablish circulation through the expanded reamer, and being mounted in the go-devil for removal therefrom and for replacement by a like fracture plate or by one having a greater or less fracture value.

2,170,453
VULCANIZATION OF RUBBER
Marion W. Harman, Nitro, W. Va., assignor to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Application August 26, 1936, Serial No. 98,069
4 Claims. (Cl. 18—53)

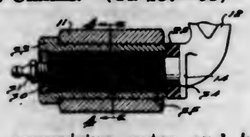
2. A process of vulcanizing rubber which comprises heating rubber and sulfur in the presence of a phthalyl bis-dipiperidyl-dithiocarbamate.

2,170,454
SHOCK REDUCING AND CUSHIONING WHEEL MOUNTING FOR VEHICLES
Glenn L. Larison, La Grande, Oreg.
Application March 27, 1939, Serial No. 264,361
15 Claims. (Cl. 280—81)



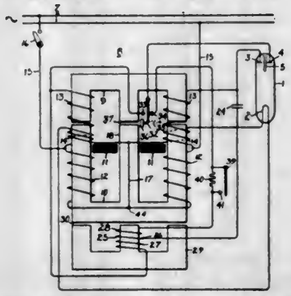
14. In a running gear assembly, a beam member, a plurality of resiliently opposed links pivotally mounted at one end of said beam, links transversely pivoted to said beam at one end and carrying ground engaging means at the other end of said links, and means for securing said first and second named links together so constructed and arranged that said ground engaging means will have movement in planes parallel to said beam and be laterally spaced a constant distance therefrom.

2,170,455
ROLLER BEARING SHACKLE
John W. Leighton, Port Huron, Mich.
Application October 17, 1936, Serial No. 106,107
2 Claims. (Cl. 287—93)



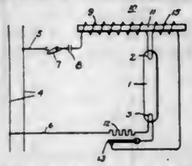
1. A joint comprising outer and inner relatively rotatable members having internal and external threads respectively, and a series of elongated rollers between the threads and having alternating circular grooves and ridges for receiving the threads.

2,170,456
ELECTRIC DISCHARGE APPARATUS
Harold W. Lord, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application March 22, 1938, Serial No. 197,357
13 Claims. (Cl. 176—124)



1. In combination, an electric discharge device having a cathode and a plurality of anodes, a transformer having spaced points of its secondary arranged to be connected each with one of said anodes and an intermediate point thereof connected with said cathode, power factor improving means connected across said transformer, and means responsive to the current in said means for increasing the voltage applied to said device by said secondary to start a discharge in said device.

2,170,457
ELECTRIC DISCHARGE APPARATUS
Harold W. Lord, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application December 20, 1938, Serial No. 246,883
6 Claims. (Cl. 176—124)

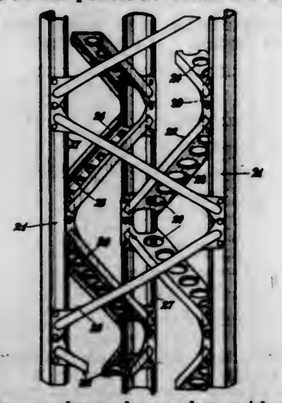


1. In combination, a source of alternating current supply, a reactor, a gaseous electric discharge device connected with said source through said reactor, one of the electrodes of said device being adapted to be preheated and being connected at one end thereof with one of the connections to said source, a connection between the other end of said electrode and the other electrode of said device and means in said connection comprising additional turns on said reactor for increasing the flow of current through said one electrode at starting.

2,170,458
LIGHT-WEIGHT GIRDER, ESPECIALLY FOR AIRCRAFT
Hans Moechel, Friedrichshafen, Bodensee, Germany, assignor to Luftschiffbau Zeppelin G. m. b. H., Friedrichshafen, Bodensee, Germany
Application August 8, 1934, Serial No. 738,995
In Germany August 23, 1933
3 Claims. (Cl. 189—37)

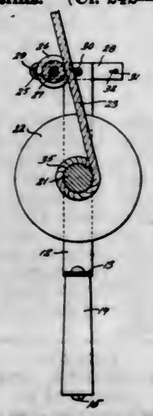
3. A light-weight girder comprising a plurality

of main chord channels, a plurality of truss brace channels each having the integral side portions thereof extended to overlie the opposite outer surfaces of said chord channels, said portions having ribs formed thereon extending substantially the entire length of the sides of said brace channels and overlapping to a substantial extent the outer surfaces of said main chord channels whereby to strengthen said portions of said brace channels at the points at which the side portions



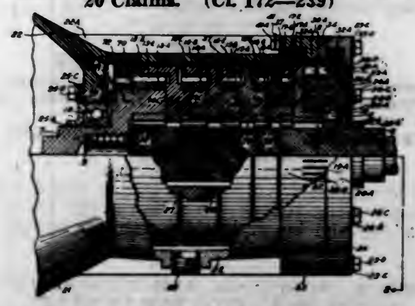
of said brace channels overlap said main chord channels, and means for connecting overlapping portions of said main chord and brace channels at least on opposite sides of the portion of the rib which overlaps the main chord channel, the said rib extending at least to a point on a line passing through said connecting means, and the web portions of said brace channels being cut away adjacent the ends thereof to receive the adjacent portions of the chord channels.

2,170,459
SPRING-ACTION CLOTHESLINE REEL
Charles Motkowicz and Joseph Podgorny, Chicago, Ill.
Application June 4, 1938, Serial No. 211,828
2 Claims. (Cl. 242—100)



1. A winding reel for a rope-like element comprising a yoke, a handle on said yoke, a reel rotatably mounted within said yoke, an operating crank connected to said reel, a guide and brace bar fixed to the outer end of said yoke parallel to the axis of said reel, a guide roller adjacent said guide bar, and a rod supporting said guide roller for rotatable and unrestricted axial movement parallel to said guide bar, said yoke being formed to provide a rectilinear slide bearing for the ends of said rod permitting movement of said rod towards and away from said guide bar, and spring means arranged exteriorly of said yoke engaging the ends of said rod whereby to urge said guide roller towards said guide bar at all times.

2,170,460
VARIABLE-SPEED POWER TRANSMISSION WITH UNIDIRECTIONAL CLUTCH
Howard J. Murray, New York, N. Y.
Application March 3, 1936, Serial No. 66,876
20 Claims. (Cl. 172—239)



1. A device for causing a pair of power members forming a portion of a vehicle provided with brake and fuel control mechanisms to approach a driving speed relation, said device including means constituting differential driving sets each in driving relation with one of the members and with adjacent sets, one set in selective driving relation with the other member, a rotatable dynamo-electric field-armature couple including two elements, one element connected to one of the sets and the other element connected to one of the members, a cam actuated clutch roller means positioned between said members for normal operation as a unidirectional clutch, and a control for said couple, said control varied by the said fuel control mechanism whereby the action of the couple will be synchronously varied with the fuel supply.

2,170,461
COMBINATION PULLER
Ben Pepperdine, Chicago, Ill.
Application June 23, 1937, Serial No. 149,898
5 Claims. (Cl. 29—85)



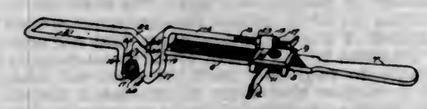
1. A device of the class described comprising an operating handle; an operating head on said handle having slots extending therethrough; a clamping arm extending loosely through each of said slots; a spring carried by and releasably locking each arm in its slot; and a reversible manipulating member threaded on said handle and having both an interior and an exterior conical cam surface one cam surface and the arms co-operating in a certain arrangement of each to move the arms in one direction and, upon reversal of said arms and manipulating member, the other cam surface and said reversed arms co-operating to move the arms in the opposite direction.

2,170,462
CLAMP NAIL AND PROCESS OF MAKING SAME
Mabel C. Putnam, Chicago, Ill., assignor to Clamp Nail Company, Chicago, Ill., a corporation of Illinois
Application June 11, 1936, Serial No. 84,658
9 Claims. (Cl. 10—34)



7. The process of forming a fastener which comprises providing a substantially elongated sheet metal blank with longitudinally extending corrugations, forming the edges of the blank with outstanding flanges and flattening the corrugations on the blank at one end whereby to taper the web and flanges at said end.

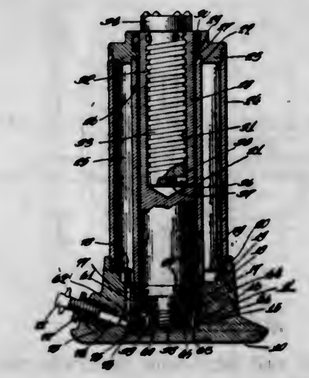
2,170,463
TOOL FOR SHARPENING LAWN MOWERS
Elmer A. Reid, Morrisville, Pa.
Application July 11, 1938, Serial No. 218,526
5 Claims. (Cl. 76—82.1)



1. A tool for sharpening a lawn mower comprising a holder having a lug extending from the upper portion thereof, said holder having a slot therethrough adapted to receive a file, and a transverse opening through the bottom portion thereof; a wire handle mounted adjustably in said lug and extending horizontally therefrom, said handle being bent intermediate the ends thereof to provide downwardly extending connected U shaped portions forming therebetween a guide channel; a file in said slot; and means for securing said file to said holder.

2,170,464
HYDRAULIC JACK
Homer R. Rosenberry, Euclid, Ohio
Application March 2, 1936, Serial No. 66,657
7 Claims. (Cl. 60—52)

1. A hydraulic jack, comprising: a ram cylinder, a ram therein, and means cooperating to define a fluid reservoir, extending about said ram cylinder, and communicable with said ram cylinder; strainer means overlying the bottom of said reservoir, operable to strain fluid passing from above to beneath said strainer means; means for withdrawing fluid from beneath said strainer means to operate said ram; and means extending through said strainer means for returning fluid from said ram cylinder to said reservoir at a point above said strainer means.



2,170,465
WALL FIXTURE
Allard W. Spencer, Winchester, Mass., assignor to J. P. Eustis Manufacturing Company, Cambridge, Mass., a corporation of Massachusetts
Application May 14, 1938, Serial No. 208,033
4 Claims. (Cl. 248—223)

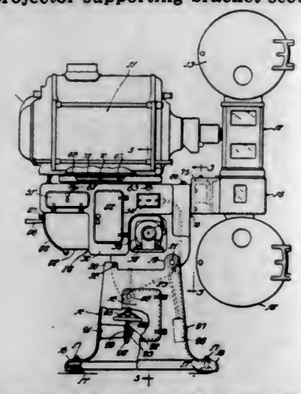


3. A wall fixture comprising a wall plate and a detachable cover for said plate, the cover having a rearwardly projecting shank with a head on its rear end and the wall plate having a slot to receive said shank, said cover having a peripheral flange extending toward the wall around said plate and operative substantially to conceal the edge of the plate, the plate having substantially parallel forwardly directed spacing flanges at its lateral edges, said spacing flanges being of a front-to-rear depth slightly greater than the depth of the peripheral flange of the cover and being operative by engagement with the rear surface of the cover to prevent said flange from scratching the wall as the cover is slipped into position lengthwise of said slot.

2,170,466
PROJECTOR STAND
Emil J. Wienke, Chicago, Ill., assignor to Motiograph, Inc., Chicago, Ill., a corporation of Illinois
Application October 2, 1936, Serial No. 103,649
3 Claims. (Cl. 248—11)

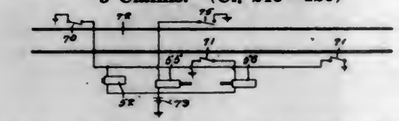
1. In a projector supporting stand of the character described, a base, a hollow casting pivoted to said base, said casting having a platform on the top thereof provided with means to

support a lamp housing thereon, said casting having a projector supporting bracket secured to one



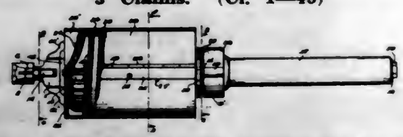
end thereof and adjustable vertically with respect thereto.

2,170,467
RAILROAD GRADE CROSSING SIGNAL
Edward R. Anderson, Van Horn, Tex.
Application August 25, 1938, Serial No. 226,827
5 Claims. (Cl. 246—126)



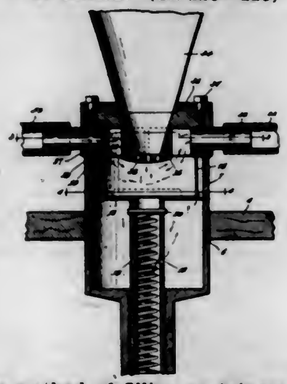
1. A railroad grade-crossing signaling device of the type described comprising a casing positioned beneath and extending transversely relative to the railroad bed at the grade-crossing; a shaft, freely rotatably mounted within said casing; paddle-shaped signal flags mounted on said shaft and rotatable therewith; housings for at least largely concealing said flags except when in essentially vertical position; gravity and momentum controlled means for alternately rotating said shaft in opposite directions and swinging said signal flags while exposed; means comprising latch elements for holding said flags in concealed positions within said housings; means actuated by a train approaching said grade-crossing for releasing said flags from engagement with said latch elements, and means actuated by passage of a train over said grade-crossing for returning said flags to substantially horizontal position within said housing and engaging same with said latch elements.

2,170,468
AUTOMATIC MAGNETIC TACK HAMMER
Ethel Blackmon, Gulfport, Miss., assignor of one-half to Henry W. Stevens, Gulfport, Miss.
Application November 6, 1937, Serial No. 173,240
3 Claims. (Cl. 1—45)



1. A magnetic hammer comprising an elongated member, a hammer head at one end thereof, a magnetic member pivotally connected with one end of the head, means for normally holding the magnetic member in parallel relation to said head, a trigger member, means operated thereby for swinging the magnetic member to a position to pick up a nail, a nail magazine on the elongated member including an inner drum rotatably supported on a part of the elongated member and having longitudinal grooves and an outer stationary casing enclosing the drum and having an internal spiral rib having its walls shaped to support the heads of nails placed in the magazine, and means actuated by the trigger member for rotating the drum step by step.

2,170,469
METHOD OF AND APPARATUS FOR FILLING CONTAINERS WITH POWDER OR OTHER COMMINUTED MATERIAL
Clarence F. Carter, Danville, Ill.
Application June 9, 1938, Serial No. 212,841
20 Claims. (Cl. 226—116)



1. The method of filling containers with comminuted material which consists in placing a container in position to receive the material, exhausting air from within the container through a portion of a screening medium, and subjecting the material to the action of air at atmospheric pressure to feed and pack the material within said container and clean accumulated material from another portion of said screening medium.

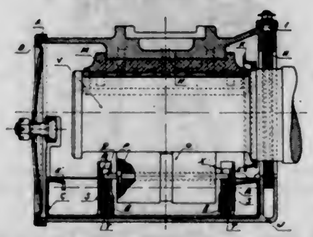
2,170,470
ANIMAL TRAP
Bert C. Chappell, Kansas City, Mo.
Application May 14, 1938, Serial No. 208,011
3 Claims. (Cl. 43—74)



2. An animal trap comprising a cage formed with an entrance opening, a tiltable pedal member disposed horizontally in the cage at the rear of the entrance opening and provided with an upstanding finger, a partition extending across the cage from the top thereof but stopping short of the bottom of the cage, a trigger arm pivotally connected to said partition and extending forwardly therefrom and provided at its forward

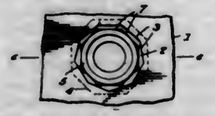
end with a hook, said trigger arm being operatively connected to the pedal member whereby the arm will be raised upon the tilting of the pedal member in one direction, and a spring actuated mechanism mounted in the cage above and in the rear of the entrance opening, said mechanism including a rotatable shaft, a toothed disk engageable by the hook of the trigger arm, and rake fingers extending radially from said shaft.

2,170,471
GREASE BOX FOR ROLLING STOCK FOR RAILWAYS AND TRAMWAYS
José Urrutia Echevarria, Madrid, Spain
Application July 15, 1936, Serial No. 90,773
In Spain July 23, 1935
1 Claim. (Cl. 308—91)



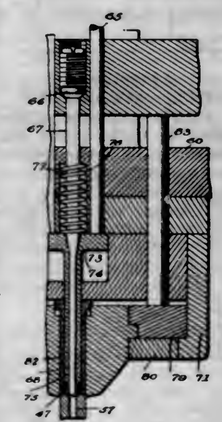
In a grease-box for the lubrication of the axles of railways, metropolitan and tramway rolling stock and for like purposes, comprising a box, an axle journal in the box, and a seal between the axle and the inner wall of the box, the combination of a roller lubricating means comprising an oil reservoir positioned in the bottom of the box and divided by apertured walls into three compartments which communicate with each other through said apertures to maintain at the same level the oil in each of the said compartments, hollow cylinders formed in said apertured walls, spiral springs within said cylinders, seatings on said springs, a spindle supported at its ends upon said seatings, ball bearings secured to the ends of said spindle, a roller mounted upon said ball bearings so as to have a two-fold movement of rotation separately or simultaneously, the said roller being partly immersed in the oil in the reservoir and having a smooth surface which is shorter than the axle journal and makes frictional contact with said axle journal whereby the said roller is rotated and the axle is lubricated by oil taken up from the central portion of the reservoir, and an annular groove at the centre part of the roller for returning the oil to the reservoir.

2,170,472
METHOD OF ATTACHING NUTS TO METAL PLATES OR SIMILAR ARTICLES OR MEMBERS
Jason A. Fitch, Youngstown, Ohio
Application September 10, 1937, Serial No. 163,309
2 Claims. (Cl. 29—148)



1. The method of attaching a nut to a plate-like object which consists in positioning an irregularly-shaped shank of a nut in an irregularly-shaped opening in the object and then spreading the shank to flow the metal thereof into contact with the edges of the opening in the object, the largest exterior diameter of the irregularly-shaped shank being less than the smallest diameter of the irregularly-shaped opening to permit rotation of the nut relative to the object prior to spreading of the shank.

2,170,473
APPARATUS FOR AND PROCESS OF MAKING NUTS
Jason A. Fitch, Youngstown, Ohio
Application December 23, 1937, Serial No. 181,400
11 Claims. (Cl. 10—78)



1. The process of forming a nut with a projection from one face which comprises initially forming a blank into cupped-shape without forming an opening therethrough, next reshaping the cupped-shaped blank into an imperforated mass having a bottom, tapered side wall and recessed upper surface, and finally reshaping the mass into nut formation with the projection from one face thereof, the hole being formed in the nut in this final reshaping.

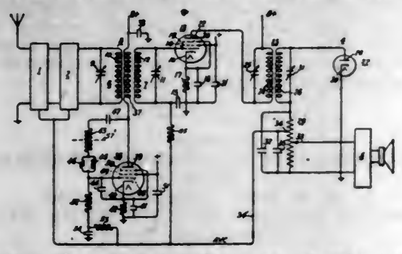
2,170,474
BENZIMIDAZOLES AND PROCESS OF MAKING SAME
Charles Graenacher and Jules Meyer, Basel, Switzerland, assignors to the firm of Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application March 18, 1937, Serial No. 131,746. In Switzerland March 18, 1936
9 Claims. (Cl. 260—309)

1. The μ-substituted benzimidazoles of which the μ-substituent is branched at the α-carbon atom, and in which one of the two branches consists of a straight chain which contains at least 10 and not more than 20 carbon atoms and at the most one double bond.

2,170,475
AUTOMATIC FIDELITY CONTROL
William C. Hahn, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application October 1, 1935, Serial No. 43,004
16 Claims. (Cl. 250—20)

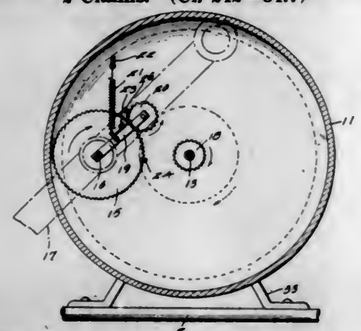
16. In combination, a plurality of tuned circuits, an air core coupling transformer between

said circuits and means all of whose component parts are stationary relative to each other for



varying the mutual inductance of said transformer.

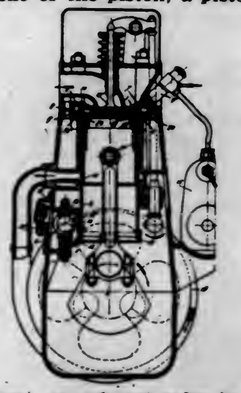
2,170,476
FISHING APPARATUS
Dale H. Kyle, Bryan, Ohio
Application May 6, 1938, Serial No. 206,453
2 Claims. (Cl. 242—84.7)



1. In a fishing apparatus, a reel including end members, a spool journaled between the end members, a shaft rotatably mounted in one of said end members, a gear fixed to the shaft, a gear secured to the spool, an intermediate gear, means carrying the intermediate gear and mounted on the shaft, said carrying means holding an intermediate gear in constant mesh with the first gear and for moving the intermediate gear into and out of engagement with the second gear, spring means connected to the gear carrying means for normally holding the intermediate gear out of mesh with the second gear to allow free movement of the spool, wedge means normally engaged with the first gear and intermediate gear to prevent rotation thereof, a handle secured to the shaft and cooperating with the wedge means for moving the intermediatt gear into mesh with the second gear upon rotation of the handle for manually rotating the spool, and means for releasing the wedge means from the gears when the intermediate gear is meshed with the second gear.

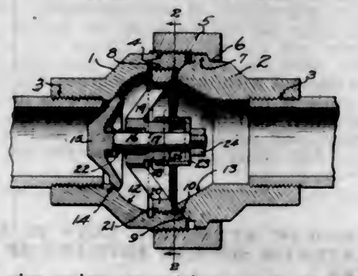
2,170,477
HIGH SPEED MOTOR OPERATING WITH HEAVY LIQUID FUEL
Roger Pierre Felix Lemasson, Montrouge, France
Application March 10, 1938, Serial No. 195,163
In France March 25, 1937
8 Claims. (Cl. 123—32)

1. In an internal combustion engine, the combination of a cylinder, a cylinder head, a piston adapted to reciprocate in said cylinder and to form a main combustion chamber between the piston head and said cylinder head at the top dead center position thereof, an annular fuel chamber forming a peripheral extension of said main combustion chamber, an annular peripheral passage providing an unrestricted communication between said chambers, a fuel injection device for delivering fuel directly into said fuel chamber, means operative to actuate said device to inject a fuel charge during a portion only of the suction stroke of the piston, a piston controlled



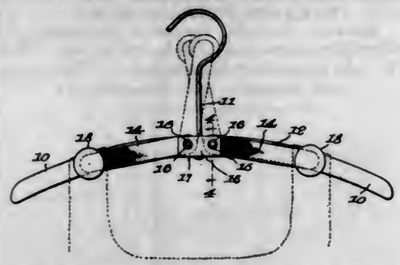
air intake port, an exhaust valve in the cylinder head, valve means for controlling said peripheral passage, and means for actuating said valve means to hold said peripheral passage open during a portion of the suction stroke to reduce the pressure in said fuel chamber, to close said peripheral passage at the end of the suction stroke prior to the opening of the intake port, and then to open said peripheral passage at a predetermined point in the compression stroke to cause ignition of the fuel in said fuel chamber.

2,170,478
VALVED PIPE UNION
Fred R. Long and Fred Max Long, Catawissa, Pa.,
Application January 11, 1938, Serial No. 184,468
1 Claim. (Cl. 137—69)



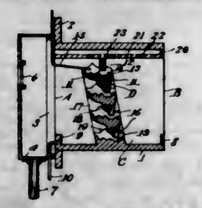
In a pipe union comprising a pair of end sections one of which is provided with a valve seat, a valve unit including a spider having a marginal portion fitted in said end section provided with the seat and also having a central lug extending rearwardly of the valve side of the spider and provided with a guide opening, a valve including a stem having a reduced threaded end and extending through said guide opening, a spring arranged between the head of the valve and said spider for urging the said head of the valve toward said valve seat, and a perforate cup-like element having an opening and adapted to fit over the said reduced end of the valve stem, said cup-like element being slidable over the outer face of said lug to provide a fluid chamber for controlling the expansive effort of the spring in moving the valve to its seat, and a nut secured to the threaded end of the valve stem to hold said cup-like member thereto.

2,170,479
GARMENT HANGER
Winnifred C. Lyman, Southampton, Mass.
Application October 24, 1938, Serial No. 236,762
6 Claims. (Cl. 223—94)



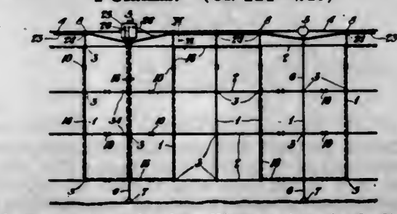
1. In combination with a garment supporting bar having a vertical side face; a spring arm disposed at said vertical side face and tensioned horizontally toward said side face to hold a garment against the same, and a transverse horizontal pivot mounting said spring arm on said bar and permitting swinging of said arm in a plane at right angles to the direction in which said arm is biased by its tension.

2,170,480
OIL BURNER
Charles A. Merritt, Miami, Fla.
Application April 6, 1938, Serial No. 200,532
4 Claims. (Cl. 158—91)



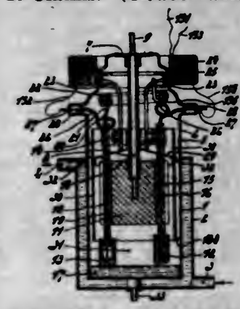
1. An oil burner comprising a casing open at opposite ends thereof for the flow of air through said casing, a plurality of spaced bars arranged in said casing in stepped formation providing therebetween and the casing horizontally disposed air paths, said bars having on the top faces thereof oil wells with the top faces sloping towards corresponding vertical faces of said bars, means for feeding oil onto the top face of the uppermost bar to flow thereover and gravitate onto and flow over the upper faces of the bars thereunder and thereby pass through the horizontally disposed air paths for mixing with the air passing from between said bars to produce a combustible fuel mixture, said oil wells of each bar extending longitudinally of the latter and each bar having notches to permit flow of oil from one of the wells thereof downwardly over a vertical face of the bar to the bar thereunder and thereby pass through the horizontally disposed air paths, and a plurality of depending teeth formed on the lower walls of the bars to intercept the flow of air between said bars and thereby bring about agitation of the air.

2,170,481
SUBMARINE BARRIER
James J. Morrison and James F. Howe, Worcester, Mass., assignors to The American Steel and Wire Company of New Jersey, a corporation of New Jersey
Application August 12, 1936, Serial No. 95,651
4 Claims. (Cl. 114—240)



1. In an electric signalling system including an electric signal, a submarine barrier comprising a mesh-like barrier member disposed to obstruct a sub-surface water-way, at least one electric conductor element carried on said mesh-like barrier and operably connected with said electric signal, spaced points of said mesh-like barrier being weakened so as to separate when stressed, and said electric conductor bridging said spaced points of said barrier and arranged to break when said mesh separates at said weakened points and to operate said electric signal.

2,170,482
MERCURY-VAPOR RECTIFIER
Johannes Gijsbertus Wilhelm Mulder, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands
Application March 4, 1936, Serial No. 67,155
In Germany March 30, 1935
10 Claims. (Cl. 250—27.5)

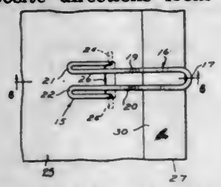


4. A compact single-phase mercury-vapor rectifier comprising a discharge vessel having a lower cup-shaped metal portion and an upper glass portion hermetically fused to said metal portion, a mercury cathode in said metal portion, a main anode, means including said anode separating the space within said vessel into an upper chamber bounded mainly by said glass portion and a lower chamber in restricted communication with the upper chamber and bounded mainly by said metal portion and the active surface area of the anode, and means to artificially cool said metal portion and to cause substantially all the mercury vapor to condense on the surface thereof.

2,170,483
FASTENER
Bion C. Place, Detroit, Mich., assignor of one-half to George E. Gagnier, Detroit, Mich.
Application April 27, 1938, Serial No. 204,660
9 Claims. (Cl. 24—261)

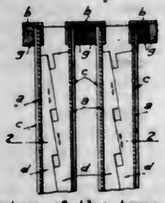
4. In combination, a trim panel foundation

having an elongated opening therein, and a fastener interlocked with said foundation through said opening, said fastener having portions that extend in opposite directions from the longer



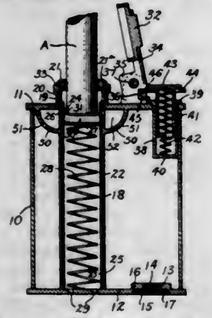
sides of said opening and engage one side of said foundation, portions that pass through said opening and further portions that engage the other side of said foundation and extend in opposite directions from the short sides of said opening.

2,170,484
HEAT INTERCHANGER
Emile Prat, Paris, France
Application February 7, 1938, Serial No. 189,222
In France February 13, 1937
5 Claims. (Cl. 257—245)



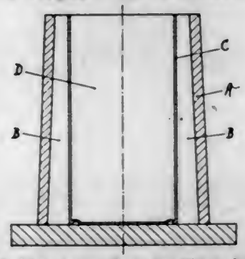
1. An apparatus of the type described, which comprises, in combination, a plurality of plates lying adjacent to one another, all in the same direction, with intervals between them, at least one plurality of channel irons, along two opposite sides of said plurality of plates, each arranged to cover every second interval between said plates by engaging the corresponding edges of the two plates limiting said interval, and at least two packing elements engaged between said edges of said two plates, said two elements having wedge-shaped cooperating surfaces located in planes perpendicular to the bottoms of said channel irons and inclined with respect to said edges slidable along each other so as to force said two plates tightly against the inner sides of the channel iron by which they are engaged.

2,170,485
CATALYTIC LIGHTER
Alfred F. Reilly, North Attleboro, Mass.
Application February 7, 1934, Serial No. 710,067
13 Claims. (Cl. 67—7)



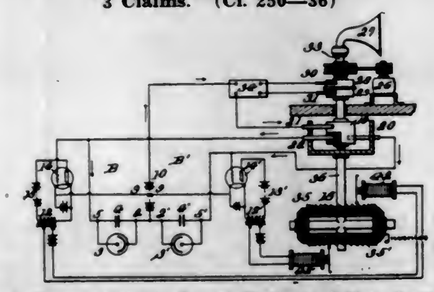
7. In a lighter, a fuel receptacle, a cigarette receiving member on the top of said receptacle, a closure cap for said receiving member, downwardly movable finger piece means to raise said closure cap, a catalytic disc within said cigarette receiving member normally isolated from the fuel, and an arrangement whereby said disc may be depressed admitting vaporized fuel to said catalytic disc from said receptacle thereby.

2,170,486
YIELDABLE CORE FOR CASTING HEAVY HOLLOW STEEL BLOCKS
Herbert Ruppik, Bochum, Germany
Application August 23, 1938, Serial No. 226,345
In Germany September 1, 1937
2 Claims. (Cl. 22—165)



1. A yieldable core for casting heavy hollow steel blocks, comprising in combination an outer casing of thin sheet metal, and a filling of liquid lead in said casing.

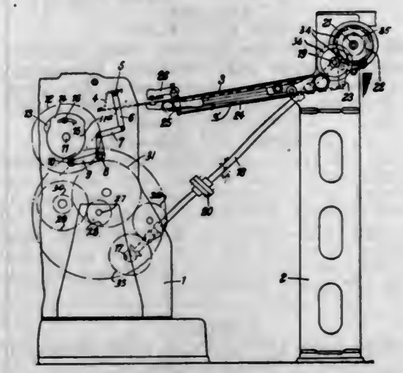
2,170,487
ELECTROMECHANICAL APPARATUS
José Soler, Buenos Aires, Argentina
Application June 22, 1936, Serial No. 86,702
In Spain February 28, 1936
3 Claims. (Cl. 250—36)



1. In an electrical installation of the character described, a plurality of oscillating circuits, the circuits having in common a source of direct current supply and an impedance, either fixed or variable, and each said circuit separately comprising a capacitative reactance and a discharge device shunted across said capacitative reactance and designed to break down disruptively when the charge on said capacitative reactance reaches a predetermined voltage, mechanically-operable means for connecting said source of supply and said impedance intermittently and alternately into first one and then the other of said oscillating circuits, pulsating circuits associated one with each of said oscillating circuits and each containing an amplifying device, a source of current and a relay, means so connecting the corresponding oscillating circuit to the amplifying device that the conductance of the latter is determined by the frequency of work of the oscillating circuit, and a

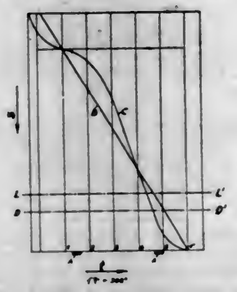
differential device the elements of which are controlled in convenient directions by said relays, which differential device causes additional accessories to perform a resultant movement in one or the other direction or to assume a resultant position depending upon the relative frequencies of the discharges in the said two oscillating circuits across the said discharge devices.

2,170,488
METHOD AND DEVICE OF FEEDING SHEETS TO PRINTING AND OTHER SHEET WORKING MACHINES
Georg Spiess, Leipzig, Germany
Application November 18, 1936, Serial No. 111,479
In Germany November 19, 1935
5 Claims. (Cl. 271—53)



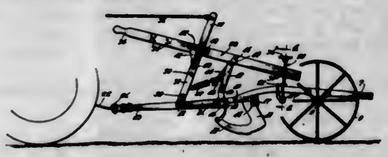
1. A method of feeding sheets to printing and other sheet working machines by means of mechanical sheet feeders, comprising simultaneously varying the working cycles of the front guides and the sheet feeding device in accordance with the size of sheet used.

2,170,489
SHEET FEEDING DEVICE
Georg Spiess, Leipzig, Germany
Application June 10, 1937, Serial No. 147,567
In Germany May 29, 1936
4 Claims. (Cl. 271—46)



1. A sheet feeding device having a main drive shaft for driving a driven feeding shaft at two speeds, one for single feeding and the other for staggered feeding, means for alternatively varying the speeds of said feeding shaft according to single or staggered feeding, and one speed varying gearing to slow down both said speeds of said single and staggered feeding.

2,170,490
MEANS FOR ELEVATING AND LOWERING PLANTER RUNNERS
William G. Stevens, Jr., Sykesville, Md.
Application October 24, 1938, Serial No. 236,771
20 Claims. (Cl. 97—236)



1. The combination with a tractor, of a planter having a forwardly extending draft member connected to the rear end of the tractor, said planter having a main frame and a runner structure, said draft member being connected to said runner structure, an axle forming part of the planter, the main frame being pivotally mounted for movement about the axis of said axle, a lifting lever arranged above the draft member, extending along the latter and having an operating member at its front end arranged substantially above the front end of the draft member, means pivotally connecting the rear end portion of the lifting lever to the planter, means operatively connecting a medial portion of the lifting lever to the runner structure for use in lifting the latter when the lever is raised, and means arranged forwardly of the last mentioned means and cooperating with the lever for automatically locking the runner structure in raised position as soon as the lever is raised to a predetermined position.

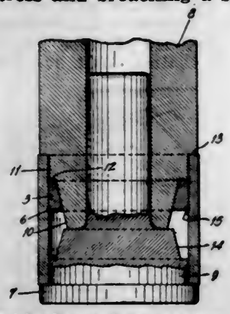
2,170,491
MANUFACTURE OF AMINOTRIAZINES
Gustave Widmer, Basel, and Willi Fisch, Riehen, near Basel, Switzerland, assignors to the firm Society of Chemical Industry in Basle, Basel, Switzerland
No Drawing. Application September 28, 1938, Serial No. 232,228. In Switzerland October 5, 1937
3 Claims. (Cl. 260—248)

1. In the manufacture of melamine from a cyan derivative of ammonia selected from the group consisting of dicyandiamide and cyanamide with addition of liquid ammonia under pressure, the feature of conducting the reaction in two phases, the first phase consisting in inducing the conversion in presence of the liquid ammonia at a temperature not substantially higher than 100° C. and the second phase consisting in completing the conversion at a higher temperature while distilling off ammonia at such a rate that the pressure is kept substantially lower than 200 atmospheres.

2,170,492
OUTER RACEWAY MEMBER FOR ROLLER BEARINGS AND PROCESS OF MOUNTING SAME
John B. Baker, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application March 23, 1938, Serial No. 197,555
10 Claims. (Cl. 29—148.4)

1. The process of mounting an annular member in a sleeve with a press-fit of predetermined intensity which consists in providing said member with a broaching edge of slightly larger diameter than the initial bore of the sleeve and less than the greatest diameter of said member by

such amount as is commensurate with such predetermined stress and broaching a seat for said

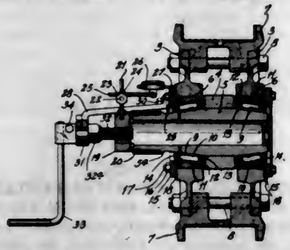


member in said sleeve by pressing said sleeve axially into permanent position in said bore.

2,170,493
APPARATUS FOR DETERMINING BEARING PLAY

Harland R. Clapper, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application June 6, 1938, Serial No. 212,027
6 Claims. (Cl. 33—172)



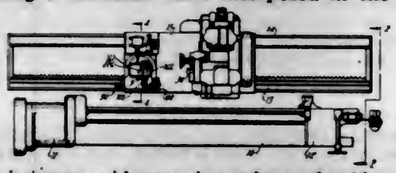
1. Apparatus for use in determining the bearing play of a roller bearing construction comprising two series of axially spaced reversely tapered bearing rollers interposed between relatively rotatable inner and outer members, said apparatus comprising a bracket adapted to be removably connected to a fixed portion of said construction, a member adapted to be removably connected to said inner member and having a threaded opening in axial alinement therewith, a shaft supported in said bracket for rotary but non-axial sliding movement therein and having a threaded engagement with the threaded opening in the member secured to said inner member, whereby rotation of said shaft shifts said inner member axially of said outer member in either direction, and a member supported by and movable with the member secured to said inner member and cooperating with said fixed portion for indicating the total amount of endwise play of both bearings.

2,170,494
GRINDING MACHINE

Hans Ernst, Cincinnati, and Albert H. Dall, Silverton, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio

Application October 20, 1936, Serial No. 106,596
22 Claims. (Cl. 51—49)

1. In a machine tool having relatively movable work and tool supports, the combination of transmission means for effecting said relative movement including an hydraulic motor operatively connected to one of said supports, a conduit system for supplying actuating medium to the motor including a reversing valve, a variable delivery having intake and delivery ports connected to said reversing valve, and means including a shiftable valve interposed in the sys-



tem between said reversing valve and said motor, and responsive to shifting of said reversing valve, to decelerate, stop, and accelerate in an opposite direction the moving slide.

2,170,495
GEAR LUBRICANT

Gerald M. Fisher, Los Angeles, Calif., assignor to Socony-Vacuum Oil Company, Incorporated, New York, N. Y., a corporation of New York

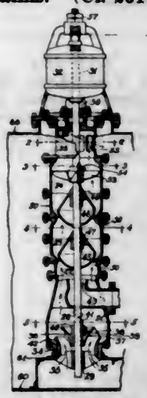
No Drawing. Application September 4, 1937, Serial No. 162,549
1 Claim. (Cl. 196—151)

A gear lubricant comprising a heavy petroleum residuum with from 5% to 20% of the resin remaining after distilling acid treated and neutralized cracked petroleum distillate, said resin being hard and brittle, of a black color, soluble in heated petroleum oils and having an aromatic odor and the property of imparting adhesiveness to petroleum lubricants.

2,170,496
PROCESS AND APPARATUS FOR INTERACTING FLUIDS

Earle W. Gard, Palos Verdes Estates, and Blair G. Aldridge, Los Angeles, Calif., assignors to Union Oil Company of California, Los Angeles, Calif., a corporation of California

Application April 14, 1936, Serial No. 74,264
15 Claims. (Cl. 261—93)

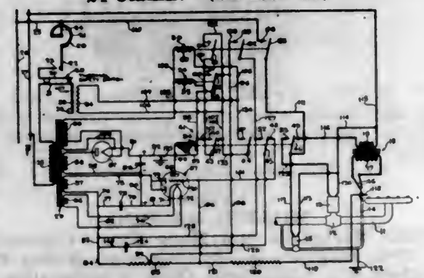


1. A pumping and agitating structure for effecting an interaction betweeen an organic liquid and a gas, which comprises a housing, liquid inlet at one end of said housing, a shaft disposed within said housing and extending therethrough, pumping means on said shaft and substantially near the liquid inlet adapted to draw the liquid into the housing through said liquid inlet, a second pumping means within the housing and on the shaft extending therethrough, said second pumping means possessing a greater pumping capacity than the first mentioned pumping means, thereby effecting a lowering of the pressure in the housing between said pumping means, means to induct a stream of gas into the housing between the two pumping means, agitating means within the housing and on the shaft therein adapted to commingle thoroughly the liquid and gas conveyed thereto by said second pumping means, and discharge means adapted to discharge the liquid and gas mixture out of said housing.

2,170,497
FUEL COMBUSTION CONTROL SYSTEM

Willis H. Gille, St. Paul, Minn., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application January 29, 1936, Serial No. 61,398
24 Claims. (Cl. 158—28)

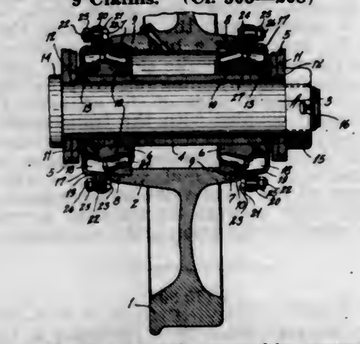


1. In a burner control system, fuel feeding means, fuel igniting means, means for bringing into operation said fuel feeding means and said fuel igniting means, means for terminating operation of said fuel igniting means, and means for delaying the action of said last named means for a predetermined period of time after combustion has first taken place, said delaying means being operative upon the operation of said fuel igniting means being terminated to immediately assume the condition that it had before said fuel feeding means and fuel igniting means were brought into operation.

2,170,498
WHEEL AND AXLE ASSEMBLY

Joel Hektner, Canton, Ohio, assignor to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio

Application May 28, 1938, Serial No. 210,583
9 Claims. (Cl. 308—208)

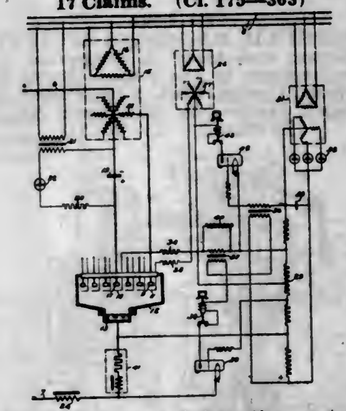


1. A wheel and axle assembly comprising a wheel having a hub with shallow recesses in its outer peripheral surface, an axle extending into said hub, roller bearings interposed between said axle and hub at the ends of the latter, annular closures for the ends of said hub and providing lubricant chambers beyond said ends, and fasteners removably engaging said closures and extending into said recesses to clamp said closures to said ends of said hubs.

2,170,499
ELECTRIC VALVE PROTECTIVE SYSTEM

Max Hürlimann, Baden, Switzerland, assignor to Aktiengesellschaft Brown Boveri & Cie., Baden, Switzerland, a joint-stock company of Switzerland

Application March 9, 1935, Serial No. 10,163
In Switzerland March 29, 1934
17 Claims. (Cl. 175—363)



1. An electric current inverting system comprising a direct current supply line, an alternating current output line, an inductive winding connected with said alternating current line, an electric valve connecting the said winding across said direct current line for the flow of current therethrough to said alternating current line, another electric valve, a capacitor connecting the second said valve across said direct current line, and means for causing interruption of the flow of current through the first said valve including means for rendering the second said valve conductive.

2,170,500
FLOW HEAD WITH ADJUSTABLE FLOW BEAN

Donald R. Knowlton, Bartlesville, Okla., and Paul C. Murphy, Shreveport, La., assignors to Phillips Petroleum Company, a corporation of Delaware

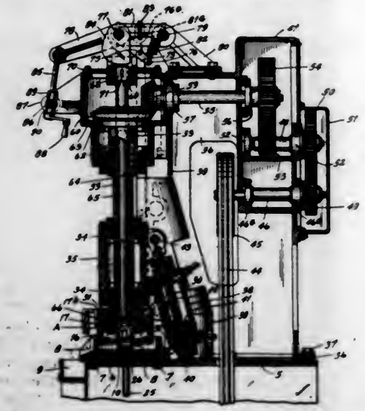
Application May 3, 1938, Serial No. 205,814
2 Claims. (Cl. 138—45)



1. In a flow head the combination comprising

means for regulating fluid flow through a conduit having vertical and horizontal passages, one of said horizontal passages adapted to have a flow collar mounted therein, the other said horizontal passage having closure means in which is adjustably mounted a flow bean stem, a flow bean connected to said stem, said flow bean including a series of frustro-conical portions for selective cooperation with flow collars having openings corresponding in size to any selected one of said frustro-conical portions.

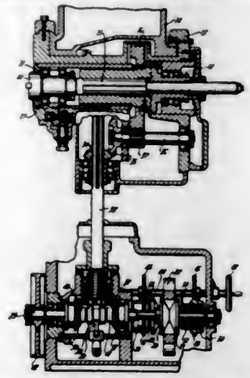
2,170,501
PERIPHERAL MACHINING APPARATUS
Paul Klamp and Albert L. Bergstrom, Canton, Ohio, assignors to The Timken Roller Bearing Company, Canton, Ohio, a corporation of Ohio
Application January 28, 1937, Serial No. 122,738
19 Claims. (Cl. 90—14)



1. A peripheral machining apparatus comprising a support for the article to be machined, a rotary tool head, means for moving said tool head axially into and out of engagement with said article, said means operable during the movement of said tool head into engagement with said article for holding the latter down on said support, said last mentioned means being operatively connected to said tool head moving means to be actuated thereby.

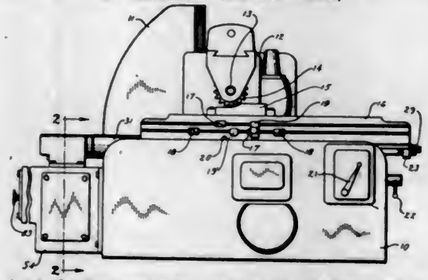
2,170,502
MACHINE TOOL TRANSMISSION
Mario Martelloti, Cincinnati, Ohio, assignor to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application March 26, 1936, Serial No. 70,988
5 Claims. (Cl. 74—191)

1. In a spindle transmission for a milling machine, the combination of a prime mover, a variable speed friction device comprising a first pair of co-axial metallic conical discs, motion transmitting means coupling said discs to the prime mover for actuation thereby, a second pair of coaxial metallic conical discs, a metallic friction ring circumscribing said discs and in frictional engagement therewith for transmitting motion from the driving discs to the driven discs, a shaft supporting said driven discs, a milling machine spindle adapted to actuate a cutter having a natural period of vibration during cutting, reduction gearing connecting said shaft for rotation of the spindle whereby said shaft will always rotate at a greater rate than said spindle, and means attached to said shaft for preventing tangential oscillation of said metallic ring relative



to said driven discs and thereby prevent deformation of the conical surfaces of said driven discs.

2,170,503
MILLING MACHINE
Mario Martelloti and Hans Ernst, Cincinnati, Ohio, assignors to The Cincinnati Milling Machine Co., Cincinnati, Ohio, a corporation of Ohio
Application November 22, 1937, Serial No. 175,804
11 Claims. (Cl. 90—21.5)

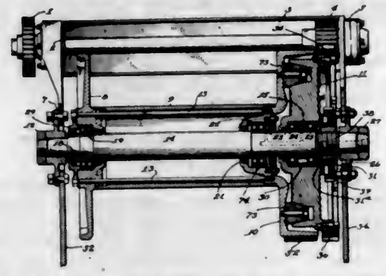


1. A hydro-mechanical transmission for control of a translatable element of a machine tool comprising a hydraulic motor including relatively movable cylinder and piston parts, one of which is coupled with the translatable element, means for producing a hydraulic pressure urge in the cylinder at opposite sides of the piston, a servo-valve for determining relative pressure conditions in opposite ends of the cylinder, a rate determinator coupled with the translatable element and actuable relative thereto in a direction opposite the desired direction of actuation of the translatable element, and means for effecting movement of the servo-valve in accordance with the differential between the opposite movements of the rate determinator and translatable element.

2,170,504
WINCH
Peter J. Messer, Olean, N. Y., assignor to Luther Manufacturing Company, Inc., Olean, N. Y.
Application October 11, 1937, Serial No. 168,450
3 Claims. (Cl. 254—187)

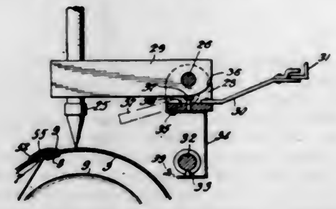
1. In a winch, the combination of a frame having end plates, a shaft fixed between said plates and having a screw at one end, a spool rotatable on the shaft and fixed against endwise

movement thereon, said spool having one end flange provided with a hollow brake drum and a fixed friction clutch member within said drum, a cooperating shifting clutch member rotatably mounted on the shaft within said drum and provided with a ring gear, a nut on the screw, bear-



ing against said shifting clutch member to operate the same, a lever pivoted on the adjacent end plate and operatively geared to the nut to turn the same, a brake band around the brake drum, and a lever pivoted on said end plate and operatively connected to the band.

2,170,505
RECORDER APPARATUS
Orville S. Peters, Chevy Chase, Md., assignor to Baldwin-Southwark Corporation, a corporation of Delaware
Application March 26, 1935, Serial No. 13,127
2 Claims. (Cl. 234—77)

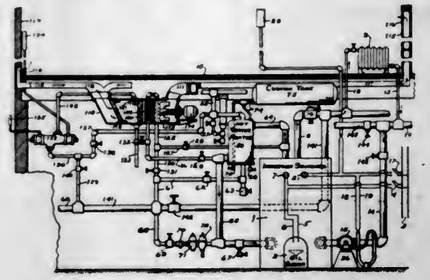


1. Recorder apparatus comprising, in combination, a rotatable hollow recorder drum having a longitudinal peripheral slot, a roll of record paper adapted to be disposed within said drum, a portion of the paper extending outwardly through said slot and around said drum and across said slot into overlapping relation with the portion of the paper extending immediately outwardly through said slot, and means movable with said drum for positively pressing and thereby directly tightly clamping the overlapped portions of said paper to the periphery of said drum longitudinally thereof, the clamped portions of paper being disposed directly between the drum and clamping means and said clamping means being movable away from the drum to release said pressing action and allow the paper to be freely unwound.

2,170,506
PROCESS FOR THE PURIFICATION OF NAPHTHENIC ACIDS
Harold G. Reiber, Long Beach, Calif., assignor to Union Oil Company of California, Los Angeles, Calif., a corporation of California
No Drawing. Application October 19, 1936, Serial No. 106,367
9 Claims. (Cl. 260—514)

1. In the process of purifying crude naphthenic acids containing phenols and oil wherein said acids are diluted with a low-boiling water-immiscible solvent, treated with sulphuric acid and recovered by extraction in the form of naphthenate soaps from the solvent containing dissolved oil and phenols by the addition of alkali to the treated naphthenic acids, the step of controlling the amount of alkali added to the treated naphthenic acids to convert the naphthenic acids into soaps, said amount of alkali added being insufficient in quantity to convert the phenols present in the treated acids into phenolates.

2,170,507
HEATING SYSTEM
Clarence J. Rice and Victor A. Berghoefer, Milwaukee, Wis., assignors to Sterling Engineering Company, Milwaukee, Wis., a corporation of Wisconsin
Application May 3, 1935, Serial No. 19,678
5 Claims. (Cl. 237—19)



1. A heating system, comprising a boiler, a burner for said boiler, a first thermostatic means for starting and stopping said burner in response to variations in boiler temperature below and above a predetermined degree, a space heating circuit connected to said boiler and supplied with heating fluid therefrom, a circulator for causing a forced circulation through said circuit, a check valve connected into said circuit for preventing flow therein when said circulator is not in operation, a second thermostatic means for starting and stopping said circulator in response to variations in space temperature below and above a predetermined degree, a third thermostatic means for stopping said circulator in response to boiler temperature falling to a predetermined low degree, and a fourth thermostatic means for starting said circulator in response to boiler temperature exceeding a predetermined high degree.

5. A system, for heating and conditioning the air in a space, comprising a heating circuit for heating said space, a boiler connected into said circuit for supplying heating fluid thereto, a burner for said boiler, a hot water heater, fluid channels connecting said water heater to said boiler and forming therewith a second circuit through which heating fluid may flow from said boiler to said water heater, an air conditioning apparatus having means for forcing air therethrough and into said space, means for supplying water from said hot water heater to said apparatus to vary the moisture content of the air forced therethrough, and means for transmitting heating fluid from said boiler to said apparatus to heat the air forced therethrough and thereby supply heat to said space in addition to the heat supplied thereto by said heating circuit.

2,170,508

DEWAXING MINERAL HYDROCARBON OILS

Albert Schaafsma and Johannes Moritz Versteeg, Amsterdam, Netherlands, assignors to Shell Development Company, San Francisco, Calif., a corporation of Delaware

No Drawing. Application May 27, 1935, Serial No. 23,736. In France May 28, 1934
3 Claims. (Cl. 196—18)

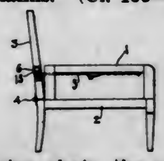
1. A process for dewaxing oil by mixing a liquid dewaxing agent having a high solvent power for the oily components of the wax-bearing oil but low solubility for its waxy components, chilling the resulting mixture to precipitate waxy components and separating the precipitated material from the oil containing solution, characterized by the use as the dewaxing agent of a mixture of trichloroethylene and ββ' dichloroethyl ether.

2,170,509

RECLINING CHAIR

Harry L. Schumpert, Greenville, S. C., assignor of two-thirds to J. B. Orders, Greenville, S. C.

Application August 23, 1938, Serial No. 226,225
2 Claims. (Cl. 155—163)



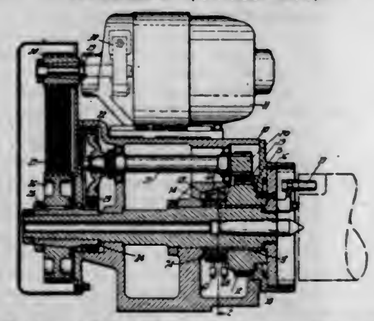
1. In a reclining chair, the combination with a hinged back-rest, of a ratchet-bar sliding on the underside of the arm-rest, a locking-dog for engaging the teeth of said bar pivoted in a housing secured to the underside of the arm-rest and through which said bar slides, and a slotted pivot plate fixed on the back-rest to which said bar is pivotally and slidably attached, the slot in said plate extending upwardly and forwardly relative to the ratchet-bar and whereby the engagement of the pivot in said slot causes the ratchet-bar to be held upward to prevent cramping of the bar at the locking-dog housing.

2,170,510

AUTOMATIC POSITION STOP MECHANISM FOR MACHINE TOOLS

Winthrop Trible and Gerhard F. Heckman, Cincinnati, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio

Application January 31, 1938, Serial No. 187,802
13 Claims. (Cl. 188—172)



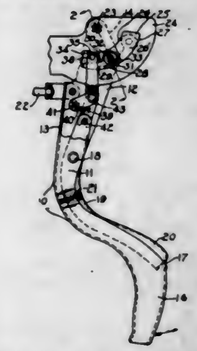
1. In a machine of the character described, the combination of a motor, a rotatable part, speed reducing motion transmitting means coupling the motor for rotation of the part at a reduced rate as respects the motor, an electrical control circuit for the motor including a starting switch, a pilot control switch for the starter, a brake for the motor, means operable by the pilot control switch for normally causing application of the brake when the starter switch is opened, a selectively coupleable auxiliary control circuit and means carried by the rotatable part reacting on said control circuit for delaying application of said brake.

2,170,511

FRICTIONAL BRAKE LEVER

Floyd D. Wenn, Binghamton, N. Y., assignor to The Brewer-Titchener Corporation, Cortland, N. Y., a corporation of New York

Application February 27, 1939, Serial No. 258,711
5 Claims. (Cl. 74—531)



1. A primary lever swingably pivoted upon a main fulcrum, grooved sector plate means having a pair of spaced groove side walls concentrically disposed about the fulcrum axis, two-part clutch means mounted between said walls to comprise a shoe part provided with opposed divergent faces of which one such face is slidably seated upon one of said groove walls and the other shoe face is shaped to constitute an inclined wedge plane and the mated part of which clutch comprises detent means retractibly interposed between said wedge plane and the other groove wall, drag pin means for the primary lever disposed in operative engagement with said shoe part to alter the seated position of the last named part in unison with the lever movement, resilient means urging said detent means toward the divergent region of said wedge plane whereby to normally thrust both clutch parts into frictional grip with their respective contiguous groove walls, and manipulative clutch releasing lever means pivotally carried by the primary lever and operatively connected to independently shift the detent means along its contiguous groove wall lengthwise away from the divergent region of said wedge plane and counter to the urge of the resilient means into a displaced relationship to the seated shoe part.

2,170,512

MEAT CUTTER

James A. Arvanitis, Mason City, Iowa

Application August 20, 1937, Serial No. 160,042
5 Claims. (Cl. 146—78)

1. A cutting machine as described comprising a frame, a horizontal track thereon, a table on said frame, a reciprocable pusher block on said track and table, a plurality of longitudinal cutters

adjacent an end of said table, a transverse cutter adjacent said table end, a vertically reciprocable frame, said transverse cutter being supported in said vertically reciprocable frame, and actuating means for said cutters, said actuating means



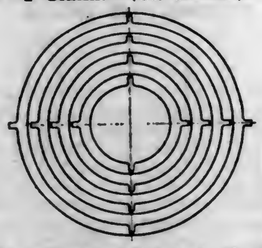
adapted to advance said pusher block during the actuation of said cutters, tension means tending to normally return the block to one position and resisting the advance of the block, and means actuated upon the block reaching a certain position to release the advancing means.

2,170,513

APPARATUS FOR REDUCING TUBES

Gustav Asbeck, Dusseldorf, Germany

Application May 10, 1934, Serial No. 724,968. Renewed January 7, 1938. In Germany November 11, 1933
1 Claim. (Cl. 80—11)



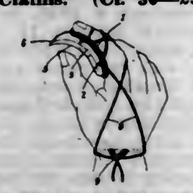
In a tube rolling machine, a plurality of roll stands, each stand comprising opposed rollers having substantially semi-circular grooves therein, said roll stands being arranged in pairs disposed in a position with the diameter of the open portion of the groove of one roller of each pair disposed at a right angle to the diameter of the open portion of the groove of the other rollers of each pair, and the diameters of the open portion of the grooves of succeeding pairs of roll stands being arranged in progression with the diameter of the first member of each succeeding pair of roll stands arranged at an acute angle with respect to the diameter of the first member of a preceding pair of roll stands.

2,170,514

KNIFE

Henry Bartosek, Sacramento, Calif.

Application October 29, 1937, Serial No. 171,732
2 Claims. (Cl. 30—298)



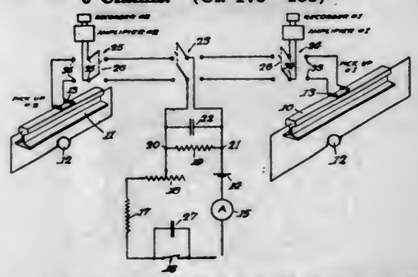
1. A knife unit adapted for attachment to a person's finger, said unit comprising a metallic finger saddle, a pair of ears struck from the sides of the saddle adjacent each end and forming eyes in the sides of the saddle, the ears being bent outwardly in substantially parallel and spaced relation, a blade extending lengthwise of the saddle and projecting outwardly thereof, said pairs of spaced ears straddling the blade, means fixing the blade and ears together, and a securing lace threaded through the eyes.

2,170,515

SENSITOMETER

John C. Dionne, Somerville, Mass., and Henry W. Keevil, Highland Park, Ill.

Application February 8, 1936, Serial No. 62,935
6 Claims. (Cl. 175—183)



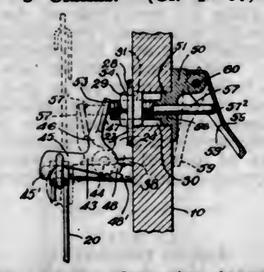
1. In a sensitometer, a casing, an electric meter in the casing having an exposed meter face, an electrical circuit associated with the meter including a source of electromotive force, a switch and a resistance across which a given potential difference is adapted to be established upon manipulation of the switch, said resistance being adapted to be connected to an electrical device whose sensitivity is to be tested, and a condenser connected across the resistance.

2,170,516

VALVE OPERATING MECHANISM

James F. Duncan, Waterbury, Conn.

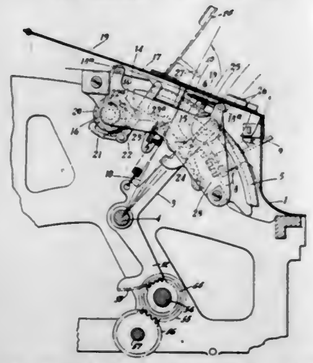
Application August 13, 1938, Serial No. 224,682
5 Claims. (Cl. 4—67)



1. A device of the character described for use in a flush tank including in combination, an operating lever for a discharge valve, a multi-armed supporting body one of whose arms serves as a support for said operating lever, trip mechanism for said lever supported from another of the arms of said body, a slidable member carried in another of the arms of said body and engageable with said trip mechanism for moving the latter, a pivoted member outside of said tank, a support for said pivoted member extending through said tank and carried by said second named arm for engaging and moving said slidable member, a nose member on a third arm of

said supporting body, a flange on said trip mechanism engageable between said nose member and said supporting body, a projection on said flange engageable with said third arm, and a lever on said trip mechanism engageable with said support for said pivoted member whereby accidental removal of said trip mechanism in its operative positions is prevented.

2,170,517
CASH REGISTER
Frederick Emberson, Penge, London, England, assignor to The National Cash Register Company, Dayton, Ohio, a corporation of Maryland
Application July 26, 1933, Serial No. 682,344
In Great Britain August 2, 1932
12 Claims. (Cl. 235—5)

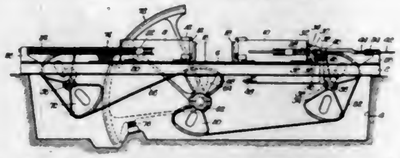


1. In a cash register having a totalizer and a manually operated means normally effective to prevent disclosure of a total registered by said totalizer, the combination of feed means for an autographic strip; masking means for said strip, said masking means having a window to expose a limited area of said strip for making an entry thereon; a movable closure for said window, said closure being movable from a closed position into an open position to expose said window; means movable with the closure when the closure is opened to allow an operation of the manually operated means; and means operatively connecting said manually operated means with said strip feed means, and adapted to actuate the strip feed means to bring an entry on said strip past said window and into an inaccessible position after the closure for the window has been moved to open position to expose the window and prior to disclosure of a total upon operation of said manually operated means to ineffective position.

2,170,518
SALAD DRESSING
Albert Musher, New York, N. Y., assignor to Musher Corporation, Elizabeth, N. J., a corporation of New Jersey
No Drawing. Application August 7, 1936, Serial No. 94,863
6 Claims. (Cl. 99—144)

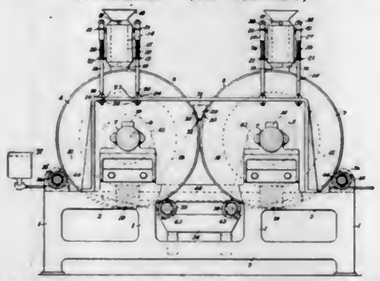
1. A salad dressing base readily emulsifiable with egg in the presence of aqueous material to produce a smooth homogeneous product, said base being substantially non-aqueous and non-emulsion-like and consisting of the spices normally used in the production of salad dressings and emulsifying agent, in combination with a salad oil.

2,170,519
IMPACT FORGING
Alfred H. Oelkers, Chicago, Ill.
Application August 7, 1935, Serial No. 35,037
19 Claims. (Cl. 78—20)



1. In a forging device, the combination of dies, a horizontally movable blank holding means for holding said blank between said dies, and means for moving said dies toward each other, one of said dies being adapted to move said first named means horizontally out of the path of movement of said die to render said means inoperative substantially at the moment of contact of one of said dies and said blank.

2,170,520
METHOD OF PRODUCING MOLDED PRODUCTS
James Albert Raynolds, Jr., Elmhurst, N. Y., assignor to The Atlantic Coast Fisheries Company, New York, N. Y., a corporation of Maine
Application January 19, 1937, Serial No. 121,281
3 Claims. (Cl. 107—54)

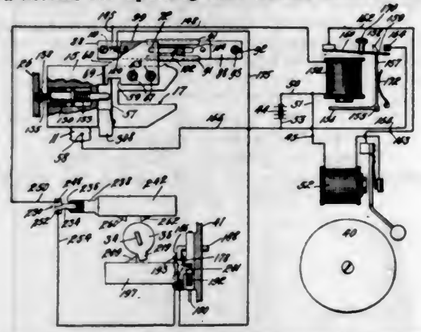


1. A method of continuously making substantially solid articles composed of a colloidal matrix having a vitamin-bearing liquid dispersed and imprisoned therein which comprises introducing an emulsion in which a colloidal matrix constitutes a continuous phase and a vitamin-bearing liquid constitutes the disperse phase into molding cavities to form corresponding half-portions of the desired shape, chilling the emulsion in the molding cavities so that it will form a firm gel, rendering the cross-sectional surfaces of said gelled half-portions adhesive while in the molding cavities, and securing the corresponding half-portions together.

2,170,521
ALARM LOCK
Joseph R. Rodth, New York, N. Y.
Application February 6, 1936, Serial No. 62,610
Renewed January 19, 1939
9 Claims. (Cl. 177—314)

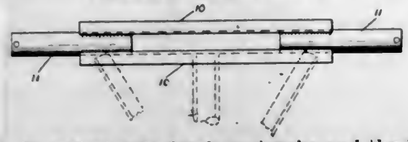
1. An alarm lock for doors and the like, including a lock housing, a bolt member movable therein to locked and unlocked position, an alarm circuit in said housing, a source of current therefor, an audible alarm associated therewith in said housing and set in action by closing of said circuit, circuit closing means carried by said bolt member and movable to circuit closing position

by unlocking movement of said bolt member, and means for opening said circuit before circuit



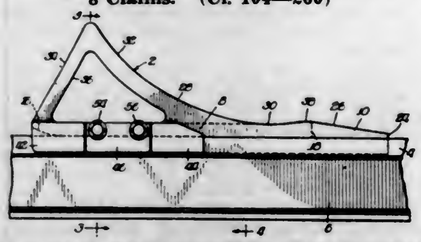
closing movement of said bolt member comprising a key actuated switch in said circuit.

2,170,522
AXLE STRUCTURE—STEEL FARM TRUCK
Daniel W. Voorhees, Peru, Ill.
Application August 29, 1936, Serial No. 98,553
7 Claims. (Cl. 301—132)



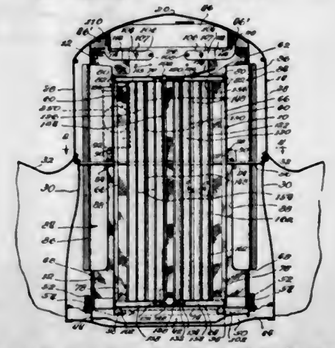
1. In a steel axle for farm trucks and the like, a pair of structural steel members, each having a slot extending longitudinally thereof for a substantial distance from one end of each, said slots being at adjacent ends of said structural members and said members being disposed in adjacent and spaced and substantially coextensive relationship to one another, and an axle member of substantially circular cross-section having one end portion disposed between said adjacent ends of said structural members, said end portion being of a diameter greater than the width of either slot, said end portion being engaged with and welded to said structural members along the margins of said slots.

2,170,523
TRACK SKATE
Edgar M. Wilcox, Chicago, Ill.
Application October 26, 1936, Serial No. 107,597
8 Claims. (Cl. 104—260)



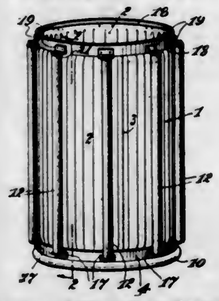
1. A track skate comprising a wheel supporting portion having a surface for receiving the tread of a wheel, an approach portion, a flange extending on one side of said skate and depending from said portions, a flange disposed on the other side of said wheel supporting portion, said flange comprising fixed and movable parts, and resilient means between said wheel supporting portion and said movable part for moving said part into engagement with said rail to hold said skate in wheel receiving position on said rail.

2,170,524
RADIATOR AND RADIATOR SHUTTER ASSEMBLY
William C. Agerell and Arthur C. Mueller, Chicago, Ill., assignors to Pines Winterfront Company, Chicago, Ill., a corporation of Delaware
Application July 9, 1937, Serial No. 152,746
21 Claims. (Cl. 180—68)



1. In a radiator shutter adapted to be supported in front of and spaced from a radiator, the combination including, a frame defining an opening having a height substantially equal to the height of the radiator core and a width substantially less than the width of the core, means removably supporting said frame substantially parallel to but spaced forward from the core, shutter elements movably mounted in said opening, and side wings secured to said frame and extending laterally and rearwardly substantially to the edges of the radiator core, thereby to distribute air flowing through said opening over substantially the entire area of the core.

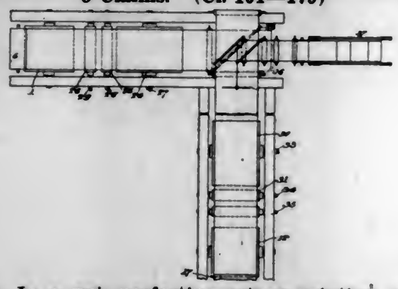
2,170,525
RECEPTACLE
Frances A. Ball, New York, N. Y.
Application October 5, 1936, Serial No. 104,022
6 Claims. (Cl. 220—71)



1. In a device of the class described, the combination of a container having a bottom and a body portion, a plurality of upright silencing members extending along the sides of the body portion and having their lower ends secured to said container, a substantially annular member extending about the body portion of said container at the upper end thereof having the upper

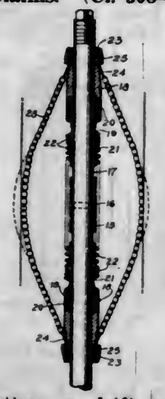
ends of said upright members connected thereto, and a plurality of wedge members for connecting said annular member to the body portion of said container.

2,170,526
WEB-PERFECTING ROTARY PRINTING PRESS
Howard M. Barber, Pawcatuck, Conn., assignor to C. B. Cottrell & Sons Company, Westerly, R. I., a corporation of Delaware
Application March 2, 1938, Serial No. 193,399
5 Claims. (Cl. 101—179)



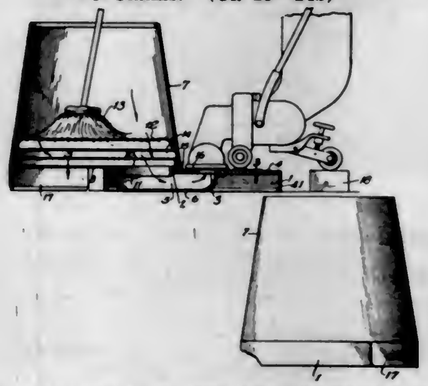
1. In a web perfecting rotary printing press, first and second printing units arranged at substantially right angles to each other, drying units for the first and second printing units, each drying unit being in line with its printing unit, a web supply, and means for passing the web therefrom rearwardly under the first drying unit and through the first printing unit, then forwardly and through the first drying unit, then forwardly under the first drying unit, then rearwardly under the second drying unit and through the second printing unit, then forwardly through the second drying unit and then forwardly under the second drying unit to a predetermined point.

2,170,527
CENTERING DEVICE FOR DRIFT RECORDING INSTRUMENTS
Joe W. Culbertson, West Hollywood, Calif., assignor to Technical Oil Tool Corporation, Ltd., a corporation of California
Application October 23, 1936, Serial No. 107,218
13 Claims. (Cl. 308—4)



3. In combination; a drift recording apparatus housing of elongated form; a pair of members mounted on said housing for sliding movement; a cage comprising bowed springs fixed to and connecting said members so that by varying the spacing of the members on the housing the degree of bow of said springs is varied accordingly to vary the maximum outside diameter of the cage; and a turnbuckle connecting said members and mounted on said housing for varying the spacing of said members.

2,170,528
VACUUM MOP CLEANER
John P. Gibbons, Chicago, Ill.
Application October 15, 1938, Serial No. 235,236
8 Claims. (Cl. 15—142)

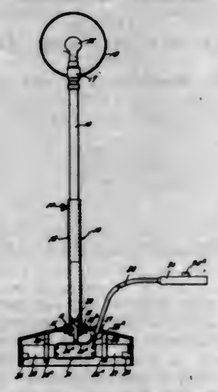


1. A device of the class described comprising a hollow upstanding body having a top opening, a bottom closure having an outlet opening therein, and a base disposed beneath said body and having a top surface substantially covered thereby, said base having a pair of spaced openings in its top surface which communicate with each other below said surface, and said body being shiftable relative to said base to provide exposure of one of the openings in the top surface thereof while the other of said openings is in alignment with the outlet opening of said bottom closure.

8. A device of the class described comprising a vertical substantially cylindrical body shell having an open top and a bottom closure provided with an eccentrically located circular outlet, an annular depending collar surrounding said outlet opening, thrashing means disposed within said body adjacent the bottom thereof, and a flat cylindrical base disposed coaxially beneath said body shell and having a top surface of substantially the same area as the bottom of said body shell, said base having an annular opening in its top surface disposed in alignment with said bottom outlet and formed to receive said collar and an elongated opening in said surface spaced from said annular opening, and said base having conduit means connecting said annular and elongated openings beneath the surface thereof, all arranged whereby said body may be shifted angularly relative to said base on the axis of said aligned openings to expose said elongated opening.

2,170,529
PHOTOGRAPHIC LIGHTING APPARATUS
William Clarence Hoffman, Baltimore, Md.
Application May 26, 1938, Serial No. 210,133
1 Claim. (Cl. 240—1.3)

In a photographic light apparatus comprising a hollow base, a telescoping vertically adjustable pedestal fixed to said base and carrying at its upper end a light bulb, a dry cell battery unit including means for mounting the same within said base and operatively connected to said light bulb, a portable switch remote from said base, a switch cord connecting said switch with said battery circuit whereby said light may be operated by remote control by the closing of said switch, said dry cell battery unit comprising two horizontally lying batteries arranged in opposed relation with their terminals facing each other and in juxtaposition to the center of said base, said battery



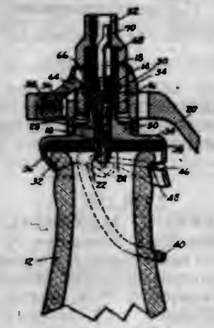
mounting means comprising a pair of brackets rigid with a wall of said base each adapted to support one end of a battery, a pair of depending straps fixed to the top wall of said base and adapted for connection each to a battery adjacent its terminal end whereby to securely lock said batteries in position, and a bushing collar fixed to said top wall of said base through which an end portion of said switch cord extends for connection to said battery circuit.

2,170,530
FUEL PUMP
James P. Johnson, Shaker Heights, Ohio, assignor, by mesne assignments, to Pump Engineering Service Corporation, Cleveland, Ohio, a corporation of Ohio
Application October 25, 1937, Serial No. 170,844
14 Claims. (Cl. 103—42)



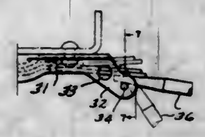
1. A relief valve for rotary fuel pumps and the like comprising a housing having a fuel passageway therein, a movable valve member mounted in said housing and operatively associated with said fuel passageway for controlling the flow of fuel therethrough, means for resistably preloading said valve member, a relatively flat flexible diaphragm having its marginal edge in sealed engagement with the adjacent portion of said housing and its central portion extending across said valve member in spaced relation therewith but connected thereto, and means on said diaphragm the effective area of which combined with the effective area of said diaphragm is substantially equal to the effective area of said valve member both of which are subject to the suction created at the inlet opening of the pump whereby the preloading of said valve member is uninfluenced thereby.

2,170,531
APPARATUS FOR MIXING A LIQUID WITH A GAS
Julian Kahn, New York, N. Y.
Application September 21, 1936, Serial No. 101,783
17 Claims. (Cl. 221—74)



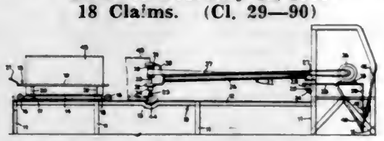
1. In an apparatus for whipping cream (or for like purposes) by mixing the cream with a gas under pressure and discharging the same through a constricted passage, a conventional tire air valve including a slender tube having its inner end acting as a valve seat, a pin extending through said tube at both ends, a valve part secured to the inner end of said pin for bearing against the inner end of said tube, and a return spring coiled about said pin for urging the valve to closed position, the passage through said tube around said pin being a comparatively constricted passage, and the passage between said valve part and valve seat being even more highly constricted when the valve pin is only slightly depressed, said tire air valve acting as an inlet valve when filling the apparatus with gas, and also acting as a constricted passage-way when discharging the cream and gas mixture, a discharge nozzle for guiding the whipped cream from the tire air valve, and means accessible outside the discharge nozzle for slightly depressing the pin of the tire air valve.

2,170,532
RAILWAY BRAKE GEAR DEVICE
Ernest A. Le Beau, Chicago, Ill., assignor to Chicago Railway Equipment Company, Chicago, Ill., a corporation of Illinois
Application August 12, 1938, Serial No. 224,444
9 Claims. (Cl. 188—210)



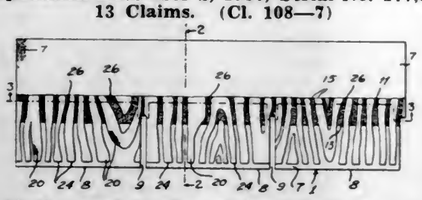
1. In a device for mounting a railway brake beam safety device bar, a bracket, means mounted on the bracket for tightly engaging the bar to retain it in functioning position, the bracket having an element for supporting a tool by which the bar may be moved to disengage it from the retaining means to facilitate removal of the latter from the device.

2,170,533
METHOD OF AND APPARATUS FOR BURNISHING
William Lockhart, Northfield, Ohio, assignor to The National Steel Barrel Company, a corporation of Ohio
Application October 8, 1935, Serial No. 44,003
Renewed February 11, 1939
18 Claims. (Cl. 29—90)



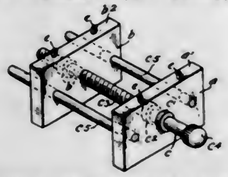
1. In a process of making a steel barrel, the steps of welding a seam in said barrel, burnishing to remove the rough edges of the seam and coating the burnished surfaces.

2,170,534
COVERING MATERIAL
Arthur Dawes MacNutt, Kenmore, N. Y., assignor to Certain-Teed Products Corporation, New York, N. Y., a corporation of Maryland
Application December 2, 1937, Serial No. 177,664
13 Claims. (Cl. 108—7)



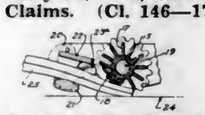
12. A covering element for laying in courses in overlapping arrangement having demarked upon the portion of the face to be exposed thereof and spaced from the coursewise edge thereof so as to lie adjacent the coursewise edge of an element in an overlying course a discontinuous band comprising a plurality of areas spaced in the coursewise direction and separated by areas of the face lying between said demarked areas, said areas of the discontinuous band being so formed as to darken the appearance of the portion of the exposed face of the element upon which said discontinuous band is formed relative to the lower portion thereof to produce upon said element the effect of the shadow of the overlying element.

2,170,535
MOVEMENT REST FOR WATCHES
Cleve G. Marsden, Portland, Oreg.
Application October 4, 1937, Serial No. 167,206
2 Claims. (Cl. 81—6)



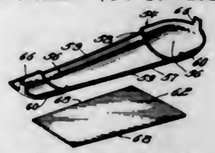
1. A movement rest for watch repair work, said device comprising a pair of clamping heads adapted for holding a watch movement, means for moving said heads towards and from each other, said means including a threaded stem, guide means for maintaining said heads in substantial parallelism with each other, one face of each of said heads constituting a work supporting surface, and a pair of alined projecting work engaging pins extending upwardly from each of said surfaces, said pins being spaced apart and lying at opposite sides of the center line of each head, said pins having work engaging notches formed upon their inner ends flush with said work supporting faces.

2,170,536
VEGETABLE SLICING AND STRINGING TOOL
Kuno W. Mesterton, Brooklyn, N. Y.
Application May 18, 1937, Serial No. 143,292
6 Claims. (Cl. 146—171)



1. A tool of the character described comprising a frame, a roller supported therein and extending below said frame to permit said roller to engage and roll over a surface when said device is pushed therealong, a plurality of knives mounted ahead of said roller and having their edges perpendicular to the axis thereof adapted to slice a vegetable when the same is drawn therethrough and the portion being cut is out of contact with the surface on which the tool is rolled, and resilient means on said roller adapted to engage said vegetable and draw the same through said knives while passing over the sliced vegetable while same is held between said means and the surface engaged by said roller.

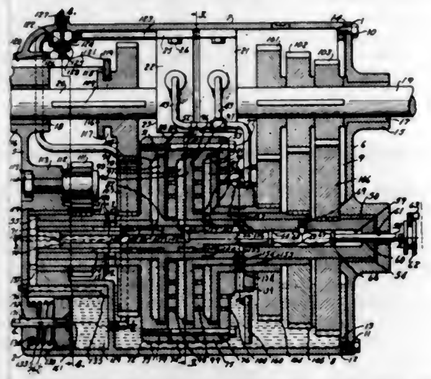
2,170,537
KNIFE HANDLE AND COMPONENT PARTS THEREOF
Felix A. Mirando and Henry Vossler, Providence, R. I., assignors to Imperial Knife Co., Inc., Providence, R. I., a corporation of Rhode Island
Application July 6, 1938, Serial No. 217,826
3 Claims. (Cl. 30—164)



1. Covering means for a knife comprising an elongated interiorly concaved member having a middle portion and end portions, said end portions extending slightly above said middle portion, a resilient separable scale member, and means to immovably secure said scale member to said concaved member in locked engagement therewith, said securing means comprising edge portions integral with said scale member and underlying said concaved member, said scale member abutting said end portions.

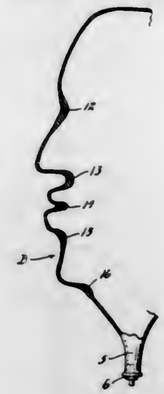
2,170,538
FLUID ACTUATED COUPLER
Emmett F. Sarver, Kansas City, Mo., assignor to Albert L. Freeling, Kansas City, Mo.
Application October 10, 1936, Serial No. 105,018
10 Claims. (Cl. 192—87)

1. A driving mechanism including driving and driven members, one of said members having passageways, means supporting said other member for movement to and from covering relation with the passageways, means for applying a fluid pressure medium against the movable member to effect driving contact with said member having



the passageways, and means for releasing said fluid pressure and directing said fluid pressure through said passageways to disengage the movable member.

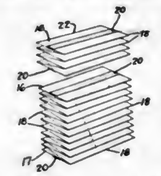
2,170,539
TOY BALLOON
George E. Schoberg, Minneapolis, Minn.
Application June 21, 1937, Serial No. 149,319
6 Claims. (Cl. 46—87)



1. An inflatable toy balloon and the like comprising a hollow body of irregular shape, said body having sunken portions and projecting portions, the material forming said body being substantially moisture proof, flexible and non-stretchable, and said material being thicker at its sunken portions, whereby said sunken portions will not bulge when the balloon is inflated.

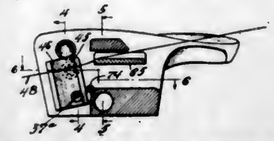
2,170,540
PAPER PACKAGE
Frank G. Steiner, Chicago, Ill., assignor to Steiner Sales Company, Salt Lake City, Utah, a corporation of Utah
Application July 16, 1937, Serial No. 154,021
5 Claims. (Cl. 206—57)

1. A paper package comprising a continuous sheet and having, a terminal free flap at each end, the outer face of each terminal flap having applied thereto an adhesive which is only adhesively attachable to a substance of like nature



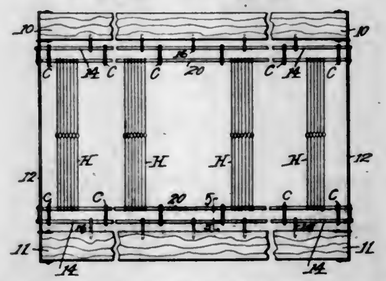
when the adhesive treated areas are pressed together.

2,170,541
SHUTTLE TENSION
William A. Tebo, Anthony, R. I.
Application February 12, 1938, Serial No. 190,216
26 Claims. (Cl. 139—217)



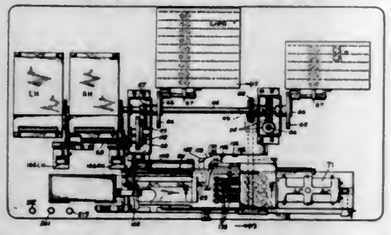
12. In a shuttle adapted to receive a yarn carrier, a pair of friction tension members, at least one of which is movably supported therein, resilient means urging said movable member toward the other member, the center of effort of said resilient means being located substantially eccentric to the medial line of said movable member and nearer to the leaving edge than to the entering edge of the member but not wholly beyond said leaving edge, whereby a gradually increasing pressure is applied to the yarn to minimize the formation of kinks between the members and the yarn carrier.

2,170,542
HARNESS FRAME
Joseph E. Blanchard, Millbury, Mass., assignor to Watson-Williams Manufacturing Company, Millbury, Mass., a corporation of Massachusetts
Application January 10, 1939, Serial No. 250,177
2 Claims. (Cl. 139—92)



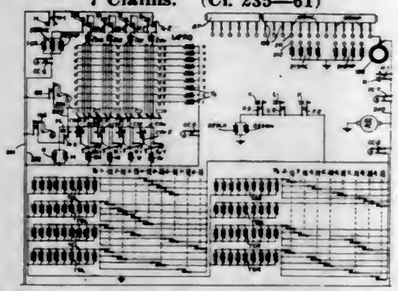
1. In a loom, a clip for connecting double heddle bars comprising two rigid pivoted members cooperating when in operative position to form a closed recess at one end to receive one heddle bar and each having a slot at the other end open at one side toward the pivot, said slotted ends when aligned being open at the same side to receive a second heddle bar when said members are in operative position, said members being freely slidable along both bars and said clip being locked on said first bar by said second bar when said second bar is seated in said aligned slots.

2,170,543
KEY PUNCH MULTIPLYING MACHINE
James W. Bryce, Bloomfield, N. J., assignor, by mesne assignments, to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application October 4, 1932, Serial No. 636,109
14 Claims. (Cl. 235—61)



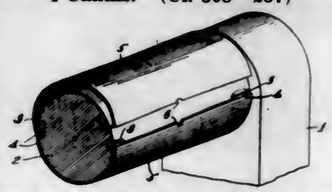
1. In a key controlled record perforating and multiplying machine having ten amount entering keys, multiplicand entry receiving and retaining means controlled by said keys to receive multiplicand amounts, multiplying means including multi-contact multiplying relays selected by said keys, receiving means for partial products, a cyclically operable emitter for transmitting differentially timed impulses through the selected multiplying relay contacts and through the multiplicand entry retaining means to the receiving means, said emitter tending to cause repeated entries in successive cycles when a multiplier relay is maintained operated, means controlled by said keys for selecting said multiplying relays for operation, cyclically operable means for operating a selected multiplying relay, said means comprising devices for preventing repeated operation of a selected relay upon a single depression of a key regardless of the duration of depression thereof.

2,170,544
MULTIPLYING MACHINE AND IMPULSE EMITTER THEREFOR
James W. Bryce, Bloomfield, N. J., assignor to International Business Machines Corporation, New York, N. Y., a corporation of New York
Application June 28, 1935, Serial No. 28,805
7 Claims. (Cl. 235—61)



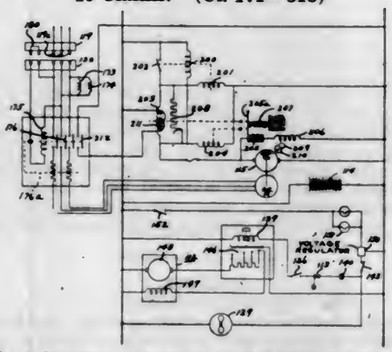
1. In a multiplying machine of the differentially timed impulse type with factor manifesting means for both factors and emitting multiplying means and including the combination wherein the emitting multiplying means comprises emitting commutator means having a plurality of conducting surfaces thereon with electrical connections between different surfaces, a plurality of output and input brushes cooperating with the commutator means, means controlled only by the factor manifesting means for one factor for setting the brushes in combinations related solely and only to a manifested factor digit, an input line commonly connected to the input brushes of the commutator means and output lines one for each digit of the other manifested factor connected to the output brushes, and impulse flow selecting means controlled by the factor manifesting means for the other factor connected to the aforesaid output lines for effecting further impulse selection.

2,170,545
REPLACEABLE SHAFT SURFACING BEARING ELEMENT
Edgar F. Burton, Kansas City, Kans., assignor, by direct and mesne assignments, of one-third to Edward J. Marcus, Kansas City, Kans., and John H. Meik, Kansas City, Mo., one-fifth to John F. Riley, four and two-thirds per cent to T. J. Riley, four and two-thirds per cent to Amanda Catherine Riley, four and two-thirds per cent to Henry B. Riley, four and one-half per cent to J. P. Jonz, four and one-half per cent to Geo. E. Ford and two per cent to G. C. McDermett, all of Wichita Falls, Tex., and five per cent to F. C. Key, Wichita County, Tex.
Application November 22, 1937, Serial No. 175,758
4 Claims. (Cl. 308—237)



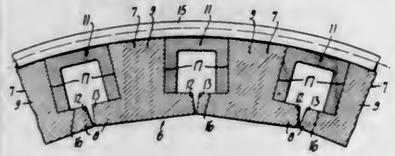
1. As a new article of manufacture a substantially semi-circular member of resilient material having at its opposite ends, a pair of tongues projecting toward each other, and adapted to interlock with sockets of a shaft.

2,170,546
GENERATING SYSTEM
Robert R. Candor and Donald F. Alexander, Dayton, Ohio, assignors to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Original application May 20, 1937, Serial No. 143,843. Divided and this application December 18, 1937, Serial No. 180,637
19 Claims. (Cl. 171—313)



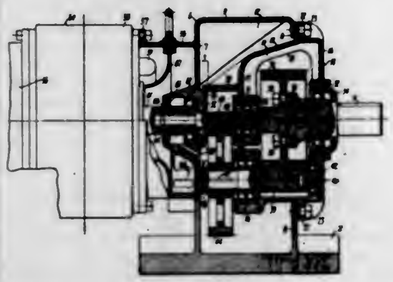
19. A battery charging mechanism for railway cars or the like comprising a direct-current generator adapted to be driven from the car axle, an alternating-current motor drivingly connected to said direct-current generator, means for connecting said alternating-current motor to a source of alternating current, means whereby said alternating-current motor drives said direct-current generator independently of said axle, voltage and current controlling means for said direct-current generator, and means modifying said voltage and current controlling means while said direct-current generator is driven by said alternating-current motor.

2,170,547
PRESSURE EXTRACTION VESSEL SHELL
Joseph D. Christian, San Francisco, Calif.
Application June 1, 1938, Serial No. 211,225
3 Claims. (Cl. 100—48)



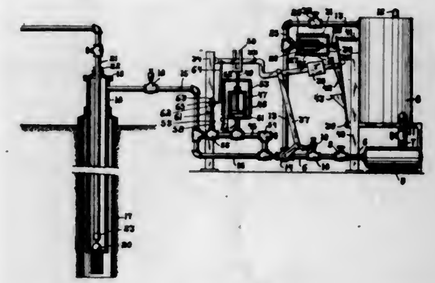
1. A shell for a pressure extraction apparatus comprising a plurality of substantially like T members and a plurality of substantially like channel members, each channel being positioned with its open face toward the cross members on adjacent T members and with the spaced opposite sides thereof abutting and spacing substantially parallel stems on said T members and with the channel defining faces thereof engaging adjacent cross-members on said T members with said T members spaced apart and defining substantially uniform and continuous openings into the channel spacing said members, and means securing said T members and said channels into a tube.

2,170,548
SPEED REDUCTION UNIT
Joseph D. Christian, San Francisco, Calif.
Application June 13, 1938, Serial No. 213,440
8 Claims. (Cl. 74—606)



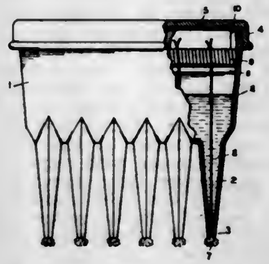
6. In a device of the character described, a casing structure having first and second opposite end walls connected by a side wall, said second wall being apertured; a speed change unit including a first shaft, a second shaft and gearing connecting said shafts to effect a reduction therebetween, a support structure inserted through said aperture at least partially, bearing means supporting said shafts substantially in axial alignment in said support structure, means on said support structure engaged with said second wall to support said unit, and means on said support structure engaged with said first wall to support said unit.

2,170,549
PUMPING APPARATUS
Lester L. Clark, Akron, Ohio
Application May 5, 1938, Serial No. 206,197
4 Claims. (Cl. 103—235)



1. In a pumping apparatus of the character described, a closed container having a valve controlled inlet opening at the lower end thereof for admitting liquid thereto, a discharge pipe leading from the lower portion of said container, a tube connected to the upper portion of said container, a fluid compressor having an outlet pipe and an inlet pipe connected to said tube, a valve in the outlet pipe, a valve in the inlet pipe, fluid operated means connected to said inlet pipe for opening the valve therein and closing the valve in the inlet pipe, a by-pass line connected to said tube and fluid operated means interposed in said by-pass line for closing the valve in said outlet pipe and operating the valve in said inlet pipe.

2,170,550
LIQUID APPLICATOR
Victoria G. Corel, San Leandro, Calif.
Application October 18, 1938, Serial No. 235,596
3 Claims. (Cl. 132—13)



3. An applicator having a fount with tubular teeth extending therefrom; a coil clamp within said fount; and absorbent pads having attaching means extending through said teeth and engaging the coils of said clamp.

2,170,551
HUMIDIFIER
William Warren Cummings, Jr., Windermere, Fla.
Application March 5, 1938, Serial No. 194,101
7 Claims. (Cl. 219—38)

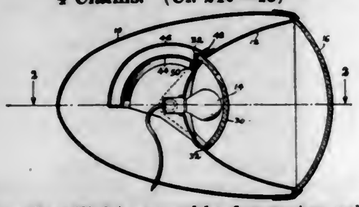
1. An air conditioning apparatus comprising a hollow base having an air inlet, a hollow standard communicating with said base, a hollow head

providing a chamber communicating with said standard and having an air outlet, means for dis-



charging water into said chamber, and means for vaporizing said water and heating said chamber.

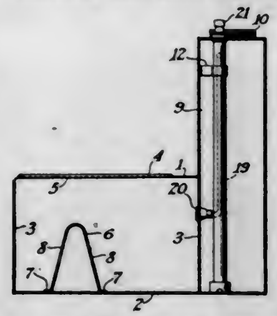
2,170,552
ATTACHMENT FOR AUTOMOBILES
Charles W. De Porter, Dayton, Ohio
Application March 9, 1938, Serial No. 194,891
4 Claims. (Cl. 240—45)



1. In a headlight assembly for motor vehicles and the like the combination including a reflector simulating a parabolic reflector, said reflector having a slot having an arcuate portion terminating in a pair of portions lying in parallel planes, a casing housing the reflector and forming a cavity to the rear of the reflector, a shell mounted to the rear of the reflector and registering with the opening therein, said shell being mounted between the reflector and the casing, a shaft pivotally mounted in the shell, electric means centrally disposed with respect to the reflector for generating light, movably mounted means for filtering the light, supporting means including a pair of arcuate sectors fixedly attached to the shaft for supporting said filtering means, said arcuate sectors supporting the filtering means in the shell when not in use, and means for rotating said filtering means through the arcuate portion of the slot from the position within the shell to a position centrally disposed with respect to the reflector and within the reflector so as to filter all the light generated by said electric means, the arcuate sectors rotating through said pair of slot portions when the filtering means is adjusted from one position to the other.

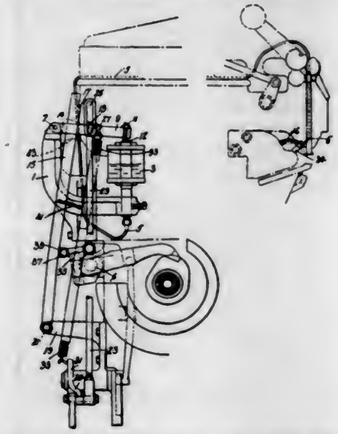
2,170,553
PORTABLE FOOT SPRAYING APPARATUS
Frederick B. Eilers, Rochester, N. Y.
Application April 19, 1938, Serial No. 202,924
3 Claims. (Cl. 128—173)

2. A portable foot spraying apparatus comprising a foot receptacle having an opening in its top wall, a foot rest in said receptacle having a convex foot engaging surface above the bottom and extending transversely of the receptacle to support a foot transversely at its central portion, a liquid container adjacent to said receptacle and extending thereabove, a pump arranged



vertically in said liquid container and including a vertically movable piston, and liquid conducting means extending from said pump into said receptacle and acting to direct a spray of liquid into the receptacle in a generally horizontal direction toward the zone just above said foot rest.

2,170,554
NEEDLE-LUBRICATING MECHANISM
Harold Ernest Elliott, Leicester, England, assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application November 16, 1937, Serial No. 174,786
In Great Britain December 14, 1936
7 Claims. (Cl. 112—43)



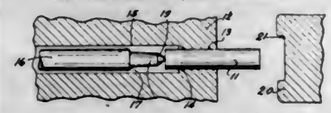
4. In a sewing machine, the combination with a needle, of a needle lubricating mechanism comprising a reservoir for lubricating fluid, a lubricating fluid conduit extending from the reservoir to a point in the vicinity of the needle, means actuated upon stopping the machine for squirting lubricant onto the needle during the last cycle of the machine and subsequent to the withdrawal of the needle from the work, and means for varying the time in the last cycle of the machine at which the lubricant is squirted onto the needle, whereby the lubricant may be applied to varying portions of the needle length thereof.

2,170,555
INGOT MOLD PLUG
Arthur C. Estep, Waynesburg, Ohio, assignor to The Whitacre-Greer Fireproofing Company, Waynesburg, Ohio, a corporation of Ohio
Application September 3, 1937, Serial No. 162,315
Renewed May 25, 1939
5 Claims. (Cl. 22—148)



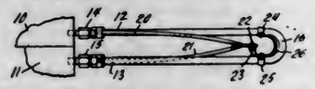
5. A burned clay ingot mold plug formed by plastic extrusion in the direction of its axis and upset to form a truncated cone along the same axis and dried and burned, and adapted to be disposed in the conically tapered bottom hole of an ingot mold with its upper surface exposed to the fluid metal contents of the mold, said plug comprising a solid unitary laminated structure having cohering laminations throughout its body lying substantially normal to said exposed upper surface and constraining the tendency to fracture to the directions of said laminations, the said upper surface of said plug having been wiped or pressed while wet, and comprising a smooth hardened skin containing the ends of said laminations and resistant to abrasion.

2,170,556
PROCESS AND APPARATUS FOR MAKING RIVETS
Earl R. Frost, Tiffin, Ohio, assignor to The National Machinery Company, Tiffin, Ohio, a corporation of Ohio
Application April 1, 1936, Serial No. 72,197
28 Claims. (Cl. 10—27)



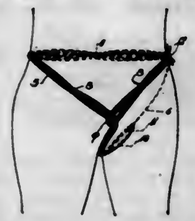
1. The process of making a tubular member from stock of solid cross-section comprising positioning an unheaded blank in a die with its ends on opposite sides of a drawing throat, upsetting one end portion of the blank into frictional binding engagement with a substantially cylindrical recess within the die to form a cylindrical enlargement, and forcing said enlargement through said drawing throat and over a drawing punch to form a tubular portion.

2,170,557
SUPPORT FOR FLEXIBLE HOSE
Stephen Guarnaschelli, Elmhurst, N. Y., assignor to Packless Metal Products Corporation, New York, N. Y., a corporation of Delaware
Application March 24, 1938, Serial No. 197,767
5 Claims. (Cl. 138—61)



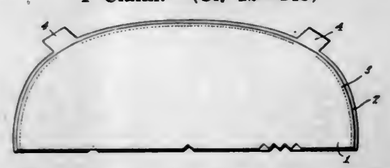
1. A support for a U-shaped flexible hose having its ends connected to a pair of members movable vertically relative to each other, comprising a clamp secured to the bight portion of the hose, fittings secured to the ends of the hose, and a pair of substantially flat spring strips fixedly secured to said fittings and pivoted to said clamp, said spring strips being disposed between the legs of the U-shaped hose and being arranged to flex as the legs of the hose separate and to straighten the hose legs as the legs are returned to their initial U-shaped relation.

2,170,558
HERNIA APPLIANCE
Frank O. Hanson, Buffalo, N. Y., assignor to John C. Conway, Buffalo, N. Y.
Application November 11, 1936, Serial No. 110,351
5 Claims. (Cl. 128—95)



2. A hernia appliance, comprising a support composed of an endless, resilient body member, said body member being formed of a plurality of strands of soft material arranged so as to have two coextensive sides adapted to encircle the body, a slip loop at one end of the body member, a tension adjusting portion at the opposite end of said member, said slip loop being adapted to have said tension adjusting portion passed therethrough and to form, with the portions of the body part which are engaged by the slip loop, a pressure cushion, and a flexible, nonresilient attaching member secured at one end to the tension adjusting portion of the body member and at the other end to the body encircling portion of the body member.

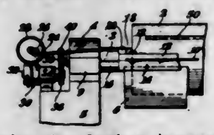
2,170,559
PROCESS OF MAKING MOLDED HEEL AND QUARTER CONSTRUCTIONS
Benjamin F. Hartwell, Leslie L. Hartwell, Jr., and Arthur F. Hartwell, Bellows Falls, Vt.
Application June 3, 1937, Serial No. 146,217
1 Claim. (Cl. 12—145)



The improved method of manufacturing boots and shoes, which consists in premolding the heel and quarter portions by first preparing flat blanks of similar contour for the stiffening layer, the upper and lining material to constitute the heel and quarter structure of a shoe, uniting the marginal edge of said upper and lining around the top of same while flat, leaving the bottom portions unattached, preparing stiffening material while flat and unmolded with suitable cement on both surfaces, assembling the same between the upper and lining in position to constitute a counter for the heel and quarter of the shoe, applying pressure to the three layers to unite the same while flat, and thereupon simultaneously molding the upper, counter, and lining thus attached into predetermined final finished form with an inturned flange for attachment to the insole prior to fitting upon a last and thereupon attaching an insole to the inturned flange all

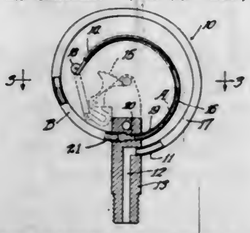
prior to assembling the rest of the shoe materials onto a last and thereupon lasting the forepart and completing the shoe.

2,170,560
INTAGLIO ROLL
Charles T. Hayes, Richmond, Va., assignor to James River Paper Products, Inc., Richmond, Va., a corporation of Virginia
Application March 25, 1937, Serial No. 132,909
6 Claims. (Cl. 91—51)



1. In a device for laying transverse strips of adhesive on a travelling sheet of paper, a rotary cylindrical roll, a doctor blade contacting said roll, and means for applying adhesive to said roll, the periphery of said roll being indented to form a long continuous groove extending generally in a direction parallel to the axis of the roll, the groove areas and the cylindrical areas of the roll in the groove zone interpenetrating sufficiently to provide cylindrical supporting surfaces for the doctor blade effective throughout the travel of the groove areas past the doctor blade.

2,170,561
COMBINED BOURDON TUBE AND TRAP
Harold L. Joyce, Chicago, Ill., assignor to Jas. P. Marsh Corporation, Chicago, Ill., a corporation of Illinois
Application May 13, 1932, Serial No. 611,155
12 Claims. (Cl. 73—109)

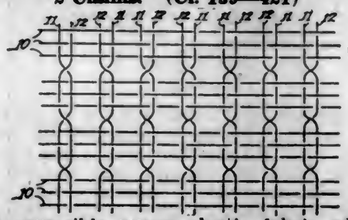


1. A pressure gauge comprising a post formed with a longitudinally extending bore for a portion of its length and with a transverse passage therethrough in non-intercepting relation to the longitudinal bore, a Bourdon tube having one end connected to the transverse passage, the free end being movable in response to pressure therein, a tubular element arranged with its opposite ends connected in communication with the longitudinal bore and the transverse passage, respectively, an intermediate portion of said tubular element being disposed above said transverse passage to provide a trap for confining liquid between the ends of said Bourdon tube and said tubular element.

2,170,562
POULTRY FEED
Bernard Jurale, South Meriden, Conn.
No Drawing. Application April 28, 1938, Serial No. 204,839
8 Claims. (Cl. 99—4)

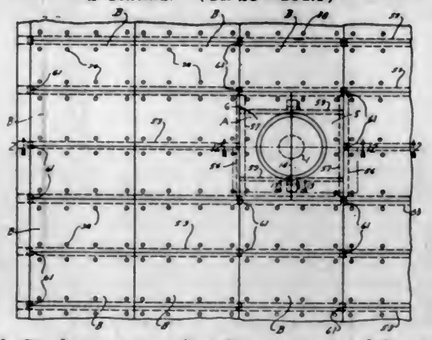
1. A poultry feed containing with other ingredients a small percentage of a substance having a high keratin content.

2,170,563
REVERSIBLE WOVEN ELASTIC FABRIC
Howard F. Lord, Stoughton, Mass., assignor to J. W. Wood Elastic Web Co., Stoughton, Mass., a corporation of Massachusetts
Application November 22, 1938, Serial No. 241,771
2 Claims. (Cl. 139—421)



1. A reversible woven elastic fabric which is substantially alike on both faces and which comprises weft threads in groups, and elastic leno warp threads in pairs, said warp threads being interlaced and interwoven with a plurality of picks of the weft threads of each group without crossing and being crossed between adjacent groups of weft threads, and the warp threads of adjacent leno pairs being crossed in opposite directions after being interwoven with a given group of weft threads.

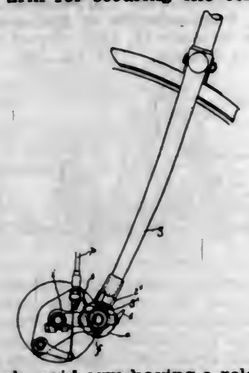
2,170,564
FORM APPARATUS FOR CONCRETE CONSTRUCTION
John Lundin, Detroit, Mich.
Application April 16, 1937, Serial No. 137,310
2 Claims. (Cl. 25—131.5)



1. In form apparatus for concrete slab construction, a marginal frame formed of channel irons, brace members reinforcing said frame and coacting with said channels in forming a rigid structure capable of withstanding deformation under the weight of a concrete slab, a fibrous nailing strip secured in each channel and having a portion extended to the plane of the top surface of said channel, a seamless facing element supported by the top surfaces of said channels and brace members, and removable securing elements extending through said facing element and into said nailing strip.

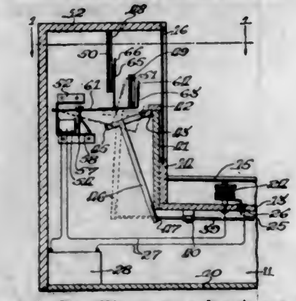
2,170,565
SPRING SUSPENSION FOR FORK-MOUNTED WHEELS
Colin Macbeth, Birmingham, England
Application September 23, 1938, Serial No. 231,358
In Great Britain May 26, 1937
2 Claims. (Cl. 280—286)

1. In a cycle or like vehicle having a fork for mounting a wheel and a rubber spring on each side of the wheel connected with the lower end of the fork by an arm secured to the wheel axle, the combination including a torsion rubber spring disposed centrally around a spindle at the lower ends of the fork and comprising a rubber block disposed between and vulcanized to metal plates, means for non-revolubly connecting one of said plates to the fork through the agency of said spindle, an arm for securing the other plate to



the wheel axle, said arm having a relatively large vertically extending opening through an end portion thereof to receive the lower end of the fork, bearings for the ends of the spindle mounted in the arm structure at each side of said opening therein, upwardly extending abutments on said arm disposed forwardly and rearwardly of said opening, and anti-concussive stop means on the lower end of said fork and disposed above said arm for engagement by said abutments.

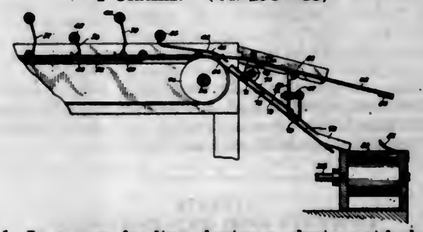
2,170,566
INDICATOR FOR BALL-ROLLING GAMES
Bon G. MacDougall, Chicago, Ill., assignor to Raymond T. Moloney, Chicago, Ill.
Application June 18, 1938, Serial No. 214,525
7 Claims. (Cl. 273—121)



2. For a ball rolling game having a ball rolling surface and ball closed switches, an indicator means comprising an upright housing having a window, a support in the housing carrying a plurality of electromagnetic devices respectively in circuit with the switches and energizable when the switches are closed, a series of levers carried by the support with one disposed adjacent each electromagnetic device, each lever carrying an indicator normally disposed in a viewing position behind the window, and an armature element for each device and comprising a latch having a portion to cooperate with and normally hold the associated lever latched with the indicator in normal viewing position, said armature elements

when their associated devices are energized serving to free the associated lever for movement to carry the indicator thereon from normal viewing position at the window.

2,170,567
PEN FEEDING MACHINE
Paul Meier, Ridgewood, N. Y.
Application August 22, 1936, Serial No. 97,477
4 Claims. (Cl. 193—43)



1. In a pen feeding device a chute, said chute being of a width slightly greater than the length of a pen, means for depositing a pen into said chute, a pair of spaced pins projecting from the bottom of said chute, and means for directing a pen broadside to said pins with its crown uppermost so that the tail of the pen engages one of the pins to cause the nib of the pen to travel foremost during the remainder of the passage of the pen through the chute.

2,170,568
SAND PUMP AND ATTACHMENT THEREFOR
George W. Miller, Sapulpa, Okla.
Application August 25, 1937, Serial No. 160,838
12 Claims. (Cl. 166—19)

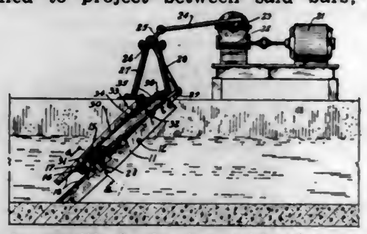


1. In combination with a sand pump and a sand line therefor, means connecting the pump with the line including a head on the pump having a longitudinally disposed slot therein terminating in a socket, and a mandrel on the line removably mounted in the socket, the line being removably mounted in the slot.

2,170,569
CUTTING SCREEN FOR SEWAGE
John Arthur Montgomery, Denver, Colo.
Application March 17, 1936, Serial No. 69,356
5 Claims. (Cl. 210—176)

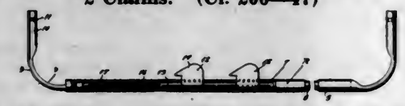
1. A device for cutting solid material in sewage comprising: a series of parallel screen bars; bar

teeth projecting from the upstream edges of said bars; a rake member; teeth on said rake member positioned to project between said bars; and



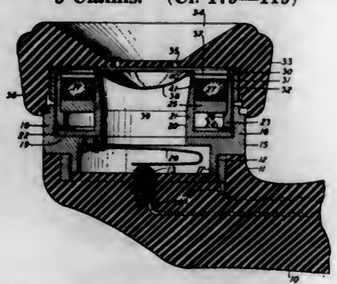
means for positively forcing said rake member alternately upward and downward so as to cause said rake teeth to coact with said bar teeth to cut material against said bar teeth.

2,170,570
CURTAIN ROD AND BRACKET
Benedict E. Moriarty, Kenosha, Wis.
Application June 25, 1938, Serial No. 215,725
2 Claims. (Cl. 206—47)



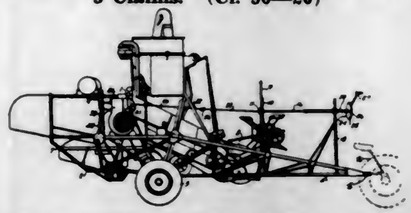
1. As a new article of manufacture, a curtain rod assembly comprising, curtain rod sections of a substantially C-shape in cross-section having longitudinally extending slots, the sections being adapted for telescoping relation, wall brackets for supporting the rod sections, each including a wall plate and a supporting arm, the wall plates extending beyond the opposite sides of the supporting arms and having a width substantially equal to the interior width of a rod section, the wall plates being slipped into a rod section with the arms extending through the slot thereof, the brackets being held against displacement from the rod, by the rod ends when the sections are in telescoping arrangement.

2,170,571
ACOUSTIC DEVICE
Edward E. Mott, Upper Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application August 12, 1936, Serial No. 95,537
5 Claims. (Cl. 179—119)



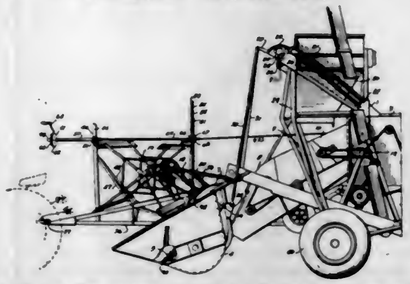
1. A telephone receiver comprising a pole-piece member having an annular portion terminating in a pole face at one end and having an outwardly projecting flange portion at its other end, an outer annular pole member, a diaphragm supported at its periphery at one end of said outer member and spaced from said pole face, and means for determining the separation between said pole face and diaphragm including a space member between the other end of said outer member and the flange portion.

2,170,572
CLUTCH OPERATING MECHANISM
Torvald N. Pierson, Independence, Mo., assignor to Gleaner Harvester Corporation, Independence, Mo., a corporation of Delaware
Application October 18, 1937, Serial No. 169,621
5 Claims. (Cl. 56—20)



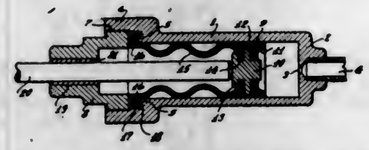
1. In a combine including a frame having a tongue adapted for connection with a draft vehicle, threshing and separating mechanisms on the frame, a harvesting unit adjustably supported on the frame, a tubular shaft supported on the tongue for raising and lowering the harvesting unit, a motor on the frame for actuating said mechanisms, a clutch connecting the motor with said mechanisms, a lever for actuating the clutch, a cable extending through said tubular shaft, a knob connected with the forward end of the cable, means connecting the cable with said lever, and a spring for maintaining the cable in taut condition with the knob in engagement with said shaft.

2,170,573
GRAIN PAN RAISING AND LOWERING MECHANISM
Torvald N. Pierson, Independence, Mo., assignor to Gleaner Harvester Corporation, Independence, Mo., a corporation of Delaware
Application October 18, 1937, Serial No. 169,623
4 Claims. (Cl. 56—208)



1. In a harvester of the character described, a main frame, a harvesting unit adjustably movable on the main frame, draft means connecting the main frame with a draft vehicle, spaced standards supported on the draft means, a clamp fixed to the foremost standard, a supporting tube having one end engaged in the clamp and its other end extending forwardly in the direction of the draft vehicle, a crank engaging member on the forward end of the supporting tube, a bearing bracket on the other standard, a shaft rotatably mounted in said tube and bearing bracket, a crank on the shaft selectively engageable with said crank engaging member, a pinion fixed on the shaft, a rack bar meshing with the pinion, and means connecting the rack bar with the harvesting unit.

2,170,574
HYDRAULIC SEAL
Claude Sauzedde, Detroit, Mich., assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich., a corporation of Michigan
Application August 17, 1935, Serial No. 36,622
8 Claims. (Cl. 60—54.6)



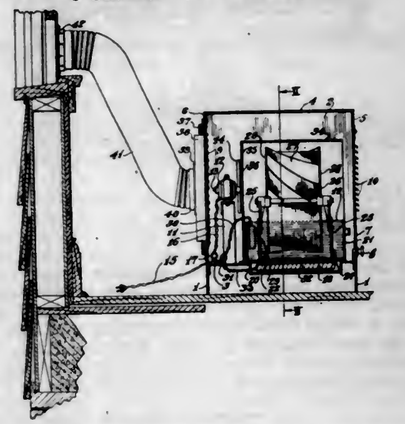
1. In a piston and cylinder assemblage wherein the cylinder assembly includes a cylinder and a cylinder head movable relatively to each other and a fluid portage, the combination therewith of, a combined piston and seal operative to seal the piston chamber to prevent the escape of fluid, said combined piston and seal including an elastic sleeve, an annular inelastic member anchored to one of said sleeve, said member being anchored between a shoulder in the cylinder and the cylinder head and providing a pressure developed, non-leakage packing zone between the cylinder and head by tightening of the latter, the anchoring zone being positioned remote from the fluid portage and said sleeve extending from the former toward the latter, said sleeve having an imperforated transverse wall movable therewith and providing a piston head between the anchoring zone and the fluid portage for closing the unsecured end of said sleeve, and a rod extending through said sleeve and loosely engaging the inner surface of said transverse wall.

2,170,575
BRAKING SYSTEM
Claude Sauzedde, Detroit, Mich., assignor to Detroit Hydrostatic Brake Corporation, Detroit, Mich., a corporation of Michigan
Application April 17, 1937, Serial No. 137,580
21 Claims. (Cl. 188—152)



1. In braking systems of the hydrostatic type, wherein the system includes a brake-applying zone and a power zone with the zones operatively connected by a fluid serving as a mobile incompressible linkage extending into both zones, and wherein the actuation of the respective mechanisms of the zones is by power from the power zone during brake-applying activities and by power from the brake-applying zone during brake-release activities, such system including fluid-operated braking mechanism in the braking zone, a fluid-actuating means in the power zone and adapted to be rendered active by manual manipulation at will, and fluid-conduit connections between said braking mechanism and said actuating means to thereby complete a fluid flow-path space for the mobile fluid linkage within the braking mechanism, the connections and said actuating means, said actuating means including mechanism for controllably moving fluid between the connections and a reserve chamber forming part of such flow-path space with the volume of fluid so moved automatically determined by the "slack" of the braking mechanism, and an automatically-operated fluid-control instrumentality operative to receive fluid from and deliver fluid to said flow-path and adapted to be rendered active with such fluid flow-path space intermittently to maintain the volume of fluid of the flow-path space constantly uniform as to volume, the fluid of the system being in open communication and under uniform pressure throughout such space when the system is in repose, whereby the system is maintained in uniform efficiency under normal service conditions automatically, said fluid space being variable as to its defining configurations during braking activity but constant as to volumetric dimensions during braking activity and inactivity.

2,170,576
AIR CONDITIONING APPARATUS
James B. Shaver, East Cleveland, Ohio
Application July 16, 1935, Serial No. 31,637
3 Claims. (Cl. 261—92)

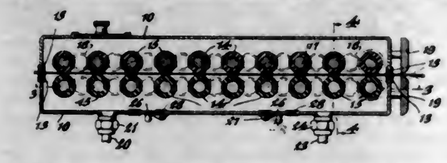


1. Air conditioning apparatus comprising a casing, a tank therein, a wheel having foraminous helical blades journalled to rotate with the lower ends of said blades extending into said tank, a fan arranged to propel a stream of air through said blades, the axis of the fan being parallel to and above that of the wheel by a distance substantially equivalent to the radial distance of the axis and the center of pressure of said blades, a cover confining said stream of air to the blades, the cover extending to the walls of said casing and forming an enclosed chamber surrounding said fan, said casing being provided with an aperture opening into said chamber, a filter positioned over said aperture, and a conduit connected to said filter.

2,170,577
DEVICE FOR STRAIGHTENING HAIR
Albert Shelby, Buffalo, N. Y.
Application June 22, 1937, Serial No. 149,644
8 Claims. (Cl. 132—31)

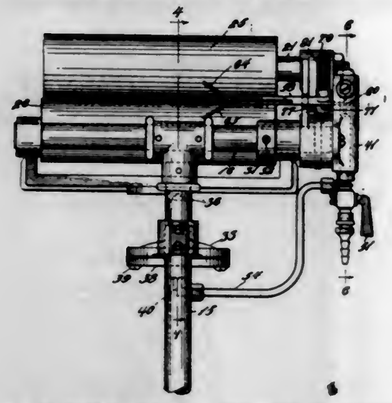
8. A device for straightening hair, comprising a casing forming a treating chamber, and means movably arranged in said casing for guiding the hair therethrough and for exerting a tensioning

and stretching action thereon, said casing having a normally-sealed opening therein for the



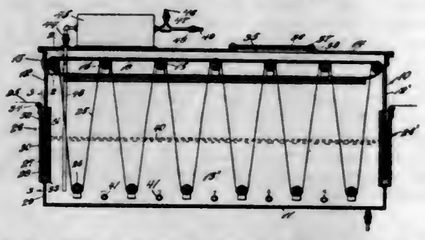
passage of previously straightened ends of the hair.

2,170,578
GUIDER
Paul A. Sperry, New Haven, Conn.
Application July 2, 1936, Serial No. 88,585
5 Claims. (Cl. 26—65)



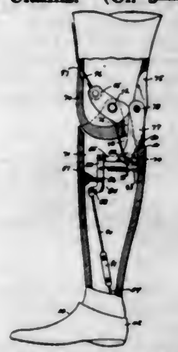
1. In a stretching and guiding apparatus, a pair of rolls between which a web of material is passed, a feeler member having a part formed with a recess and a pair of arms set into the recess and secured to such portion at its end, bifurcated arms for engaging the edge of the web between the arms of said bifurcation.

2,170,579
CLOTH FINISHING
Paul A. Sperry, New Haven, Conn.
Application November 30, 1937, Serial No. 177,238
2 Claims. (Cl. 8—151)



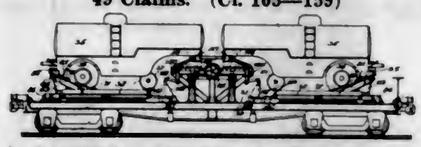
1. A cloth treating apparatus comprising a sealed chamber for treating the work, U-shaped columns of mercury affording an entrance to and an exit from said chamber for the work, said mercury maintaining a seal when the pressures within the chamber are substantially above atmospheric pressure and also exerting pressure on the work as it passes therethrough, whereby work may enter the chamber free from moisture.

2,170,580
ARTIFICIAL LIMB
Charles E. Steele, Olean, and James Beck, Buffalo, N. Y.
Application February 16, 1937, Serial No. 125,984
6 Claims. (Cl. 3—2)



1. An artificial limb, comprising a thigh portion, a calf portion pivoted thereto, a foot portion pivoted on said calf portion, a strut member pivoted on the thigh portion and engageable with an abutment on the rear part of the calf portion, a lever fulcrumed on a member carried by the calf portion, a rigid link connecting said lever to the strut member to serve to push the latter into operative engagement with said abutment, a spring acting to move said strut member, and a link connecting said lever to said foot portion to disengage said strut member against said spring.

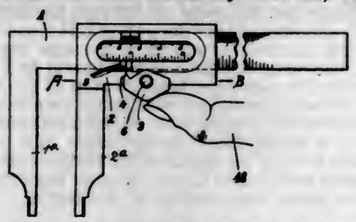
2,170,581
VEHICLE CONSTRUCTION
Lewis S. West, Brighton, George A. Steuber, Penfield, and Joseph H. Powers, Rochester, N. Y.; Genesee Valley Trust Company, executors of Lewis S. West, deceased, assignors, by direct and mesne assignments, to Despatch Shops, Inc., East Rochester, N. Y., a corporation of New York
Application September 16, 1935, Serial No. 40,662
49 Claims. (Cl. 105—159)



1. A vehicle comprising a frame, turntable means mounted on said frame for rotation thereon, said turntable means being adapted to have a load placed thereon from a lateral direction with respect to said vehicle when said turntable means is turned to one position and to be turned with the load thereon to another position for carrying the load in transit, and means mounted on said frame for carrying part of the weight of said load independently of said turntable means when said load and said turntable means are in said position for transit.

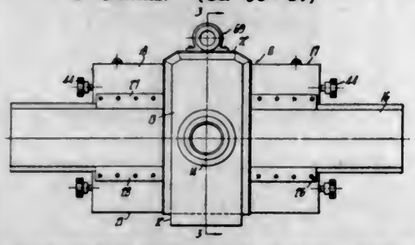
2,170,582
SLIDE GAUGE
Robert Wolter, Cologne, Germany
Application February 3, 1938, Serial No. 188,481
In Germany August 26, 1937
4 Claims. (Cl. 33—143)

1. A slide gauge of the character described having a slide, a thumb piece for the adjustment of the slide, said thumb piece being mounted on said slide and movable relatively thereto, resilient



means tending to prevent said thumb piece moving relatively to said slide, and means for indicating the displacement of the thumb piece relative to the slide.

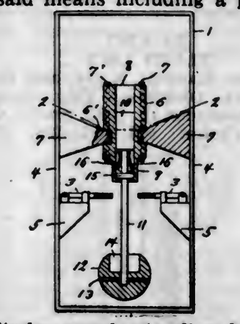
2,170,583
CAMERA
Joseph F. Thompson, San Leandro, Calif.
Application March 17, 1939, Serial No. 262,384
3 Claims. (Cl. 95—37)



1. A camera comprising, a support having a base plate adapted for mounting on a tripod or the like and a vertically disposed member secured thereto, an elongated horizontal member secured to said vertical member, lens and shutter means carried by said vertical member, a casing having a front wall formed with a horizontal slot slidably receiving said horizontal member, means for holding said horizontal member in said slot for slidably supporting said casing on said horizontal member and for sealing light from said slot, a light chamber secured to said horizontal member in alignment with said lens and extending into said casing and having an open interior rear end, and film spools mounted in said casing above and below said slot and adapted for support of a roll of film in said casing with a part of said film extending across the interior end of said chamber and for movement of said film vertically across said interior chamber end.

2,170,584
CIRCUIT BREAKER
Herbert Ayers, El Paso, Tex.
Application February 2, 1938, Serial No. 188,379
2 Claims. (Cl. 200—52)

1. In a device of the class described for breaking the ignition circuit of an overturned automobile, a casing adapted to be attached to a fixed part of the automobile to be inverted thereby when the automobile overturns, a pair of switches secured to opposite sides of said casing, respectively, in opposed spaced apart relation to be inverted by said casing and operative downwardly in the inverted position thereof to opening position, a cylinder secured in said casing to opposite side walls thereof, and means mounted in said cylinder intermediate the switches of said pair to be inverted therewith and operative under the influence of gravity in the inverted position thereof to operate said switches to opening position, said means including a piston slidable



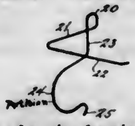
in said cylinder, a rod extending from the piston and cylinder between said switches and having an end extending beyond the latter, and a ball fast on said end of the rod.

2,170,585
ABRADING TOOL
Lawrence O. Beard, Lancaster, Pa.
Application August 8, 1938, Serial No. 223,774
3 Claims. (Cl. 51—184.3)



1. An abrading tool for brake cylinders and the like comprising a shank having elongated slots of graduated depth therein, elongated abrading members of graduated depth fitting within said slots, abrading means removably superposed on said members, and means on said abrading means engageable with means on said abrading members for holding said abrading means thereon, removable means in said slots for supporting and expanding said abrading members, and a relatively narrow beveled retaining screw means in the end of said shank for clamping said abrading members in position on the shank.

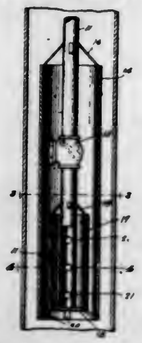
2,170,586
SPRING WIRE CLIP
Charles H. Canfield, Syracuse, N. Y.
Application October 1, 1936, Serial No. 103,612
3 Claims. (Cl. 24—81)



1. A clip made of a single piece of resilient wire bent near one end to provide two substantially straight arms at an angle to each other; another straight intermediate portion separated by a bend from, and being parallel to the plane of the two arms and spaced a sufficient distance from said plane to permit an object to be gripped resiliently when placed between the two arms on one side and the intermediate portion on the other; the intermediate portion being at right angles to one of the arms; and a large card-holding and card-separating loop lying in a plane at right angles to the same arm to which the intermediate portion lies at right angles, said loop

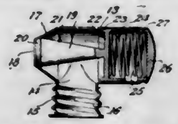
being adjacent to the intermediate portion and comprehending practically all the remainder of the length of the wire which forms the clip.

2,170,587
FLUID LIFT
Ivan B. Crocker, Garnett, Kans., and Drannan C. Worthy, Oklahoma City, Okla.
Application December 12, 1936, Serial No. 115,604
1 Claim. (Cl. 103—260)



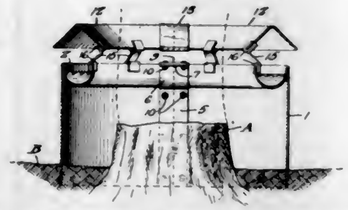
In a device of the class described, a fluid pressure pipe adapted to be extended downwardly into a well, a sleeve about the lower portion of the pipe, a nozzle within the sleeve and open at its upper end, the nozzle having an integral transverse bottom integrally closing the lower end of the pipe, the nozzle being shorter than the sleeve, the pipe having perforations establishing communication between the pipe and the nozzle, the sleeve being open at its upper and lower ends, the nozzle and the sleeve each being of a common internal diameter and of a common external diameter from end to end, and at least so much of the pipe as is within the sleeve being of a common internal diameter and a common external diameter, there being annular spaces, each of a common diameter, from end to end, between the sleeve and the nozzle and between the nozzle and the pipe, a check valve interposed in the pipe and located in the sleeve, above the nozzle, means for securing the sleeve to the pipe, above the check valve, and means for securing the nozzle to the sleeve, below the check valve.

2,170,588
SELF-CLOSING CAP FOR COLLAPSIBLE TUBES
Gordon Douglas, Stayner, Ontario, Canada
Application April 13, 1938, Serial No. 201,840
3 Claims. (Cl. 221—60)



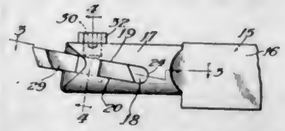
1. A self-closing cap for collapsible tubular containers, comprising a transverse barrel having a lateral nipple portion for communicable attachment to the outlet nipple of the container, one end portion of the barrel being tapered and truncated to provide a discharge opening, and a spring pressed elongated, longitudinally reciprocable, valve member in said barrel, said valve member having an axial stud formed with a relatively short, counterpart, beveled forward end portion to engage the inner tapered wall portion of the barrel surrounding the discharge opening thereof and a circular shouldered portion at its extreme end adjacent its beveled portion, said circular shouldered end portion of the valve member being approximately of the same diameter as the discharge opening of the barrel and being flush with the adjacent edge portion of the barrel in the closed position of the valve member, said stud traversing the opening of the container nipple, and a piston head at the inner end of said stud and having an annular forwardly extending sharpened peripheral flange slidably engaging the adjacent inner wall surface of the barrel.

2,170,589
TREE AND PLANT PROTECTOR
Andrew J. Erickson, Beebe, Wash.
Application July 14, 1937, Serial No. 153,641
Renewed February 21, 1939
3 Claims. (Cl. 47—23)



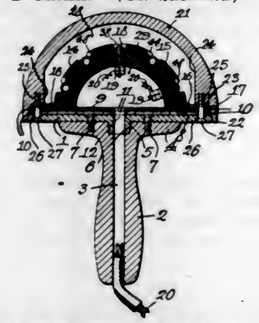
1. A tree protector comprising a pair of semicircular companion sections including vertical walls adapted to have their lower portions embedded in the ground for supporting the protector in position for use, channel members included in the sections and formed on the upper edges thereof and being inwardly directed therefrom, splicing means for the sections and detachably securing them together in edge to edge contact in tree encircling formation, said splicing means including inner and outer strips bridging the meeting edges of the walls, means included in the splicing means and cooperating with the upper ends of the inner strips for securing the channel members together in trough formation, and means to provide a leak proof connection between the channel members.

2,170,590
TOOL-HOLDING DEVICE
John T. Hiscock, Chicago, Ill.
Application February 25, 1938, Serial No. 192,636
21 Claims. (Cl. 29—96)



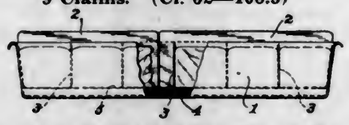
1. A tool holder comprising a member having a recess with spaced apart walls, stop-forming portions spaced from the bottom wall of said recess and extending from one to the other of said walls at opposite sides of said member, said stop-forming portions being so spaced as to permit a tool inserted into said recess and between said stop portions to be swung therein crosswise of said stop portions into different angular positions and serving conjointly as abutments to limit swinging movement of the tool, and means for holding the tool in place.

2,170,591
PUFF SLEEVE IRONER
Lucile E. Holt, Los Angeles, Calif.
Application August 9, 1938, Serial No. 223,977
1 Claim. (Cl. 219—21)



A portable, hand-operated ironing instrument comprising a hollow ironing cap of practically equal thickness throughout, a base attached to the cap and serving as a closure therefor, a handle secured to the base, centrally thereof, a hollow body fixed with respect to the base and the cap and located within the cap, and heating means carried by the body, there being an air space of substantially uniform extent between the body and the cap, the body having a cavity closed by the base and located inwardly of the handle and of sufficient size to minimize the heating of the handle, the handle being short and shaped for gripping in the human hand, the outer, working surface of the cap being in the form of a hemisphere of which the axis of the handle forms a pole, the location of the handle permitting the hemispherical working surface of the cap to be rocked laterally in any direction, under even pressure, upon the work to be ironed.

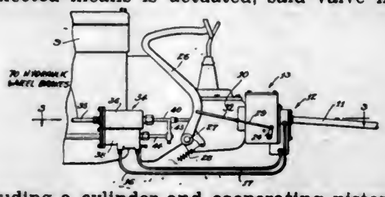
2,170,592
ICE TRAY ORGANIZATION FOR REFRIGERATORS
James H. Miner, Meridian, Miss.
Application March 8, 1938, Serial No. 194,672
9 Claims. (Cl. 62—108.5)



1. An ice tray organization for refrigerators comprising a tray and a grid held above the bottom of the tray, and movable downwardly from its elevated position for dislocating the ice from the wall of the tray and grid, said grid being substantially of the same width and length as the interior of the tray, and being self-centering in respect to the tray by substantially contacting the upstanding walls thereof, substantially as described.

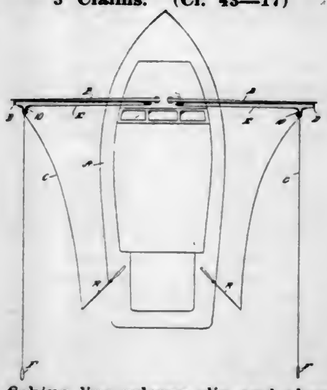
2,170,593
BRAKE CONTROL MECHANISM
Joseph B. Moore, Madawaska, Maine
Application October 7, 1936, Serial No. 104,520
4 Claims. (Cl. 188—152)

1. Apparatus for actuating hydraulic wheel brakes independently of the prime mover in a power driven vehicle comprising, means for supplying a fluid under pressure, means connected to said fluid pressure producing means and engageable with the free moving jack-shaft of said vehicle whereby said pressure producing means can be operated solely by momentum of the vehicle independently of the prime mover, valve means associated with said pressure producing means and simultaneously actuated when said connected means is actuated, said valve means



including a cylinder and cooperating piston element and serving to conduct fluid from said pressure producing means to a pressure chamber, and an outlet from said pressure chamber connected to the hydraulic wheel brakes of the vehicle whereby said brakes can be actuated by the fluid pressure established as aforesaid.

2,170,594
LINE RELEASE CLIP AND SIGNAL
Paul C. Nicholson, Providence, R. I.
Application November 19, 1938, Serial No. 241,455
3 Claims. (Cl. 43—17)

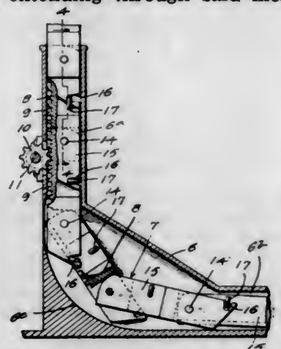


1. A fishing line release clip and alarm of the kind described comprising two members pivotally connected intermediate their ends, the ends of said members on one side of said pivot being shaped to form cooperating clamping jaws between which a fishing line may be releasably held, a spring for yieldably pressing said jaws together, means for regulating the tension of said spring to vary the pressure between said jaws, a spring operated hammer carried by one of said members, a trigger for holding said hammer in retracted position, said trigger being pivotally supported on one of said members adjacent said jaws, means for holding an explosive device in position to be struck by the hammer when the same is released, said trigger having a part engageable by the line whereby the trigger is operated and the hammer released when the line is pulled out of said jaws.

2,170,595
LIFTING JACK
Frank V. Povandra, Denver, Colo.
Application April 22, 1938, Serial No. 203,659
2 Claims. (Cl. 254—95)

1. A device of the character described, com-

prising, a base fashioned with a casing formed with a pair of connected channels, a plurality of articulated members movable in said channels, means for moving said members from one to another of said channels, latching devices carried within said members and equipped with elements extending through said members and

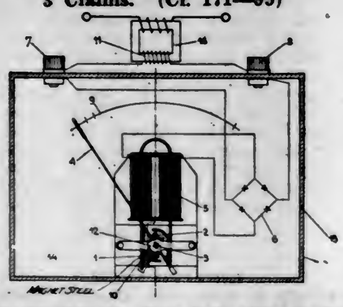


terminating in angularly disposed ends without said members, and a projection formed on said casing within one of said channels for engagement with said ends whereby to operate said devices for maintaining said members in aligned condition after movement from one channel to another.

2,170,596
OXYGEN-ABSORBING SOLUTION
Dorothy Quiggle, State College, Pa.
No Drawing. Application August 8, 1935, Serial No. 35,397
18 Claims. (Cl. 23—232)

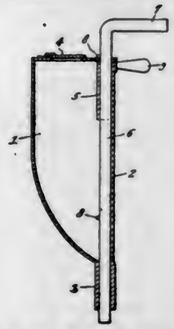
3. An oxygen absorbing solution having the property of rapidly and completely removing free oxygen from gases containing the same, comprising an alkaline solution of an alkali metal sulfide and an aromatic compound of the class consisting of pyrogallol, alpha-napthoquinone, beta-chloro-mercuri-anthraquinone, 1-chloro-anthraquinone-2-carboxylic acid, and 1-mercapto-anthraquinone-2-carboxylic acid, the sulfide being present in much greater amount than the aromatic compound.

2,170,597
ELECTRICAL MEASURING INSTRUMENT
Ernest Reich, Budapest, Hungary
Application April 1, 1937, Serial No. 134,434
In Hungary April 2, 1936
3 Claims. (Cl. 171—95)



2. A magnetic vane type indicating instrument for measuring the maxima of abnormal, transient, alternating current surges, comprising a core structure formed of high remanence material, and providing pole pieces and an air gap; an energizing winding therefor and interlinking said core structure; a magnetic vane armature pivoted in the air gap; a pointer and scale for indicating maximum deflections of the armature; and transforming means and a rectifier interposed between the source of surge current and the energizing winding, whereby the rectifier is energized in accordance with the magnetic polarization induced therein by abnormal current.

2,170,598
FERTILIZER DISTRIBUTOR
Henry M. Sims, Tampa, Fla.
Application June 21, 1938, Serial No. 215,042
1 Claim. (Cl. 111—96)



A device of the class described comprising a container having a straight vertical wall, a spout depending from the bottom of the container and a portion of which is formed by an extension of said wall, the bottom of the container sloping downwardly to the spout to cause the material in the container to gravitate to the spout, a tubular part in the upper portion of the container, and a part of which is formed by the upper part of the vertical wall, said tubular part being in alignment with the spout, a handle connected with the upper end of the vertical wall, a plunger rod having a handle at its upper end, said rod passing through the tubular part and through the spout, upper and lower projections on the rod for limiting sliding movement of the same, the lower projection engaging the bottom of the tubular part when the rod is raised upwardly and the upper projection engaging the top of the container when the rod is pressed downwardly, the lower end of the rod when in lowered position projecting a considerable distance from the spout to form a hole in the ground below the spout when the spout is pressed into the ground with the rod in lowered position.

2,170,599
VETERINARY DOSE GUN
Elza A. Stricklen, Del Rio, Tex.
Application July 20, 1937, Serial No. 154,667
2 Claims. (Cl. 128—223)

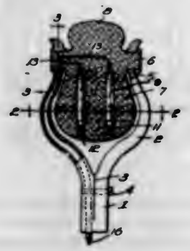
1. A veterinary instrument comprising a tubular nozzle having one end fully open and the other end provided with an end wall having rounded edges and provided with a centrally arranged opening, a cap threaded on the open end of the nozzle and having a bore extending from end to end thereof, a flexible tube having one end secured in the bore of the cap and of a length to permit insertion of the nozzle into a throat of an animal to assume a position adjacent the stomach

of the animal, finger rings carried by the free end of the tube, a piston slidable in the nozzle and including oppositely disposed cups to contact the walls of the nozzle whereby medicine in the nozzle between the piston and the opening of the end wall may be discharged from said nozzle and



lubricant arranged in the nozzle between the piston and tube will be prevented from passing the piston to the opening of said nozzle, and a flexible stem secured on the piston and extending through the bore and tube, and a thumb ring secured to the free end of the stem.

2,170,600
SAFETY CLEARANCE LAMP
Samuel T. Voll, Great Falls, Mont.
Application August 16, 1938, Serial No. 225,239
3 Claims. (Cl. 240—8.1)

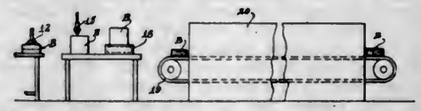


1. A motor vehicle lamp comprising a light transmitting solid body having bores extending vertically therein and provided with threaded outer ends, tubes detachably mounted in said bores and having a gaseous medium therein subject to being illuminated by high tension current, plugs threaded in the bores, springs between the tubes and plugs for cooperation with the latter for holding the tubes within the bores, conductor means for electrically connecting the tubes in the high tension circuit of the vehicle, means for mounting the body for swinging movement and adapted for connection to the vehicle, and means for opening and closing the circuit to the tubes and being actuated by the swinging movement of the body.

2,170,601
PROCESS OF PRODUCING MATERIAL FOR PURIFYING LIQUIDS
Stansbury M. Wilson and William H. Waggaman, Baltimore, Md., assignors to Baugh & Sons Company, Philadelphia, Pa., a corporation of Pennsylvania
No Drawing. Application January 8, 1937, Serial No. 119,683
6 Claims. (Cl. 210—205)

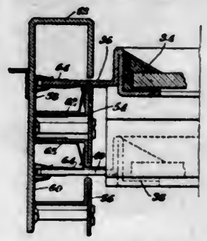
1. A process of producing filtering material, comprising adding to finely divided phosphatic material containing as an essential ingredient a substantial amount of calcium, a carbohydrate binding material and ammonium phosphate, and gradually heating the mass to a temperature sufficiently high to char the carbohydrate binding material and decompose the ammonium phosphate.

2,170,602
METHOD OF PRODUCING GLASS BUILDING BLOCKS
John E. Bauer, Muncie, Ind., assignor to Owens-Illinois Glass Company, a corporation of Ohio
Application June 29, 1937, Serial No. 150,954
1 Claim. (Cl. 49—81)



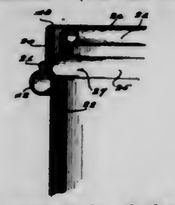
The method which consists in producing a hollow glass building block having mortar-bearing surfaces and prior to any great loss of the heat present in the glass during production of the block, applying to said surfaces in a molten state a substantially uniform film of metal having an affinity for the glass, dispersing a gritty material over the film of metal while the latter is still more or less plastic and capable of adhesion to said material, and annealing the block.

2,170,603
WINDOW
Henry Bianco, Baltimore, Md., assignor, by mesne assignments, to Truscon Steel Company, Youngstown, Ohio, a corporation of Michigan
Application March 7, 1938, Serial No. 194,344
3 Claims. (Cl. 189—72)



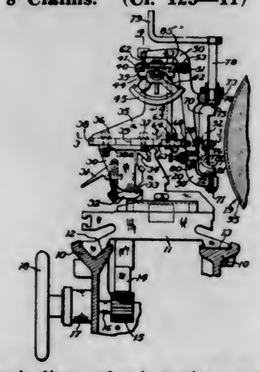
1. In a window of the type having jambs, openings through the inner walls of the jambs, a parting strip forming part of the inner jamb wall between such openings, separate enlarged chambers back of such openings and sashes having plates adapted to extend through such openings and slide vertically therein; metallic means located within said chambers to guide said sash plates in their vertical movement said means being sufficiently rigid to hold said sash plates out of contact with the edges of the jamb walls defining said openings.

2,170,604
WASTE RECEPTACLE
George B. Creesy, Baltimore, Md., and Frederick A. Prahl, Toledo, Ohio, assignors to Owens-Illinois Can Company, a corporation of Delaware
Application April 3, 1937, Serial No. 134,886
5 Claims. (Cl. 220—17)



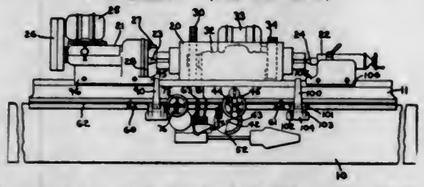
1. In a waste receptacle of the character described, the combination with an outer open-ended cylindrical shell having a relatively wide upper rim having a cover hinged thereto and provided with a depending apron adapted to seat upon and be supported by the upper rim of said shell when said cover is in its closed position, of an inner removable cylindrical waste container provided with an annular outwardly extending circumferential rib providing an annular channel on the inside of the container medially of its ends, said rib being adapted to loosely rest upon said upper rim of the shell inside of the apron whereby said container is supported within the shell, the upper rim of said container bearing against the inner surface of said cover in sealing contact therewith when said container is in position within said shell and said cover is in its closed position.

2,170,605
GRINDING WHEEL TRUING APPARATUS
Carl G. Flygare, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application February 19, 1938, Serial No. 191,497
8 Claims. (Cl. 125—11)



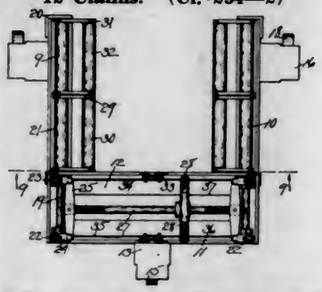
1. In a grinding wheel truing apparatus, a truing tool, a radial truing device which is pivotally mounted on a substantially vertical axis to support said tool for truing a groove in the operative face of a grinding wheel, a transversely movable support for said device, a longitudinally traversable support to carry said transversely movable support and radial truing device, and means including a forming bar and a follower to move said transversely movable support transversely during its longitudinal movement to true a predetermined form on a grinding wheel.

2,170,606
GRINDING MACHINE
Carl G. Flygare, Worcester, Mass., assignor to Norton Company, Worcester, Mass., a corporation of Massachusetts
Application February 10, 1939, Serial No. 255,665
4 Claims. (Cl. 51—237)



4. In a grinding machine having a base, a longitudinally traversable work table thereon, a rotatable work support including a headstock and a footstock on said table, said headstock and footstock having surfaces mating with the upper surface of said table, a clamping device on said headstock and footstock to clamp them in adjusted position on the table, power operated means to traverse said table in either direction, and a movable stop abutment on said base which is engageable with said headstock and/or footstock during a traversing movement of the table to facilitate longitudinal adjustment of the headstock and/or footstock.

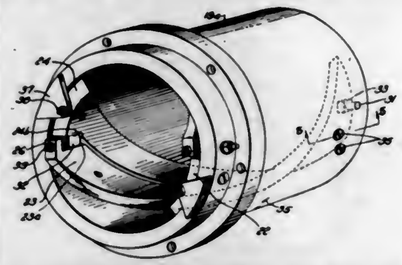
2,170,607
DOLLY FOR DISMOUNTING VEHICLE WHEELS
Clifton F. Green, New Haven, Conn., assignor of one-third to Alden H. Williams, Milford, Conn., and one-third to George E. Wood, East Haven, Conn.
Application August 11, 1938, Serial No. 224,234
12 Claims. (Cl. 254—2)



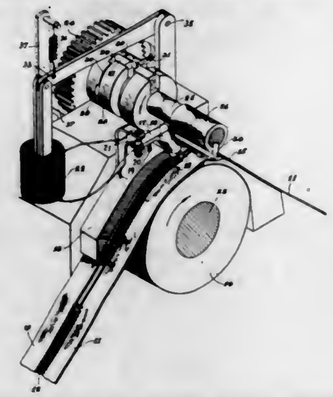
1. A dolly comprising a frame including side members spaced apart for support of a load between them, rests oppositely disposed on said side members to receive said load, means for operating said rests to raise and lower them, and an operative connection between said rests and operating means, said connection including an equalizer to effect simultaneous equal movement of said rests.

2,170,608
GEAR GENERATOR
Harry E. Kitchen, Buffalo, N. Y., assignor to Farrel-Birmingham Company, Inc., Buffalo, N. Y.
Application December 21, 1938, Serial No. 247,072
5 Claims. (Cl. 74—568)

1. In a machine of the class described, a sleeve, a key structure comprising two parallel adjacent sections, the adjacent surfaces of the sections at each end thereof being formed with angular seats, anchor studs secured within the sleeve at opposite extremities thereof and disposed between said sections and engaged by said seats, and means securing the body of each section to the sleeve.



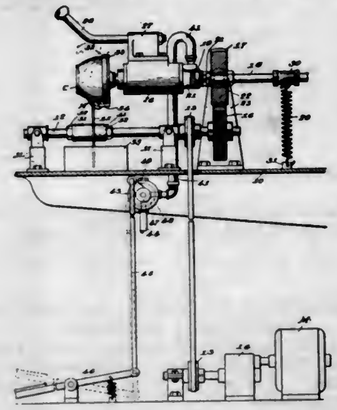
2,170,609
MACHINE FOR CUTTING SLIDE FASTENER STRIPS
Peder Nedal, Meadville, Pa., assignor to Talon, Inc., a corporation of Pennsylvania
Application March 2, 1937, Serial No. 128,610
6 Claims. (Cl. 164—68)



5. A machine of the class described comprising a guideway for a continuous fastener strip of the type having spaced groups of fastener elements attached to a flexible tape, feed mechanism engaging said strip to move it along the guideway, a knife for cutting the strip between groups of elements to leave tape ends projecting from each group, and control means for said knife including a finger projecting into the guideway and engageable with the end member of each group, and adjusting means to vary the time of actuation of the cutting knife whereby tape ends of various lengths may be produced.

2,170,610
BANDING APPARATUS
Harold R. Schutz, Toledo, Ohio, assignor to Libbey Glass Company, a corporation of Ohio
Application November 18, 1937, Serial No. 175,242
7 Claims. (Cl. 91—12)

4. A banding disk for transferring decorating material to the curved surfaces of cups and like articles having handles by direct tangential rolling line contact therewith, said disk having a clearance notch formed in the peripheral regions thereof for register with the handle of an article undergoing decoration, the side walls of said notch being reduced in thickness relative to the thickness of the remainder of the disk.



6. In an apparatus for banding the peripheral curved surfaces of cups and like articles having handles, a rotatable shaft, a banding disk mounted on said shaft, said disk being provided with a clearance notch in the peripheral regions thereof, a hollow rotatable shaft, means for supporting said hollow shaft for tilting movement about a transverse axis, means for tilting said hollow shaft, a vacuum chuck mounted on the hollow shaft and communicating with the interior thereof, said chuck being movable toward and away from the banding disk upon tilting of the hollow shaft, said chuck including a face plate against which the rim of an article manually applied to the chuck is adapted to bear, a foot carried by said chuck eccentrically of the face plate and adapted to engage the handle of an article manually applied to the chuck and held against rotation, means for connecting the interior of the hollow shaft to a source of vacuum, and means for rotating said shafts in opposite directions in synchronism.

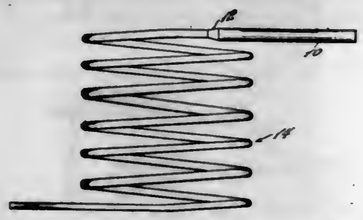
2,170,611
METHOD OF IODINE FIXATION AND PRODUCT THEREOF
Douglas S. See, San Mateo, Calif., assignor to Leslie-California Salt Company, a corporation of Delaware
No Drawing. Application February 7, 1936, Serial No. 62,809
8 Claims. (Cl. 99—143)

1. A salt block for animal feeding containing potassium iodide dissolved in a viscous sugar syrup in a ratio of syrup to potassium iodide of between 50 and 100 to one by weight and which mixture is homogeneously dispersed through the mass of NaCl.

2,170,612
COMBINATION CAPILLARY TUBE AND BULB AND METHOD OF MAKING SAME
Francis W. Sullivan, Cranston, R. I., assignor to United Wire & Supply Corporation, a corporation of Rhode Island
Application February 19, 1938, Serial No. 191,427
2 Claims. (Cl. 29—148.2)

2. The method of forming a capillary tube and bulb for a thermostatic control which consists in reducing the diameter of a tube of relatively

large size for a portion of its length to capillary size leaving the other portion larger, and de-



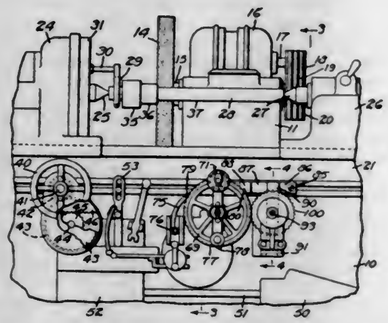
oxidizing and dehydrating the inner surface of the unit so formed for its entire length.

2,170,613

CYLINDRICAL GRINDING MACHINE FOR SHOULDER GRINDING

Lewis A. Williams, Shrewsbury, and Albert C. Racine, Worcester, Mass., assignors to Norton Company, Worcester, Mass., a corporation of Massachusetts

Application December 22, 1937, Serial No. 181,174
5 Claims. (Cl. 51—95)



1. In a cylindrical grinding machine, a rotatable grinding wheel, a transversely movable slide therefor, a longitudinally movable table, a rotatable work support thereon including a headstock and a footstock, means to traverse said table longitudinally, a feeding mechanism to feed said wheel slide transversely toward and from said work table to grind a work piece supported thereon, a multi-stepped stop bar which is adjustably mounted on said table, a moveable stop lever associated therewith, and means actuated automatically in timed relation with the feeding mechanism to cause a relative approaching and receding movement between said stop lever and bar.

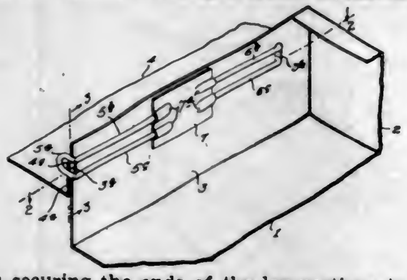
2,170,614

HINGE CONSTRUCTION

Albert J. Allen, Brooklyn, N. Y., assignor to Metropolitan Device Corporation, a corporation of New York

Application July 26, 1938, Serial No. 221,291
2 Claims. (Cl. 16—192)

1. A loop hinge construction for a box having a slot in the side wall thereof and a cover having an opening therethrough which hinge construction consists of a single piece of heavy metal wire and which includes two leg portions joined at adjacent ends by a semi-circular loop portion, extending at right angles to the plane of the axes of the leg portions and forming a hinge loop extending through the slot in the side wall of the box and through the opening in the cover, and means



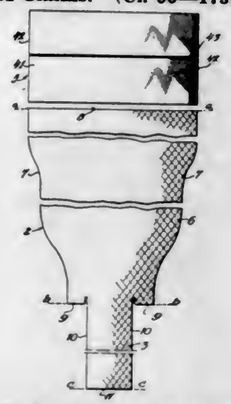
for securing the ends of the leg portions to the inner surface of the side wall of the box.

2,170,615

METHOD OF MAKING HOSIERY

Joseph L. Beers, Bloomfield, N. J., and Hans J. Straussberger, Brooklyn, N. Y., assignors to Julius Kayser & Co., Brooklyn, N. Y.

Original application January 6, 1938, Serial No. 183,572. Divided and this application November 10, 1938, Serial No. 239,804
11 Claims. (Cl. 66—173)



1. The method of uniting a knitted stocking leg fabric blank with the folded sections of a knitted double ply welt blank, comprising: interknitting the marginal coursewise edge portions of the folded sections of said welt blank and a course of the leg blank so that the normal upper edge portion of the latter projects beyond the marginal edge portion of the welt blank; knitting an extension at the marginal coursewise edge portions of the folded sections of said welt blank; stitching together said extension and projected edge portion of the leg blank; and turning the folded sections of the welt blank inside out.

2,170,616

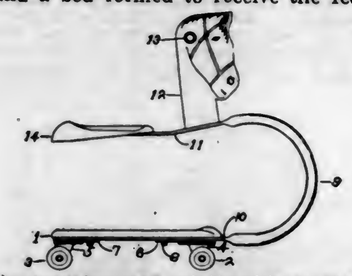
CHILD'S TOY

Clarence E. Garton, Sheboygan, Wis.

Application September 9, 1937, Serial No. 163,020
1 Claim. (Cl. 280—87.03)

In a child's toy the combination of a front plate and a rear plate, a pair of wheels attached to each of said plates, a spring seat supporting member attached to said front plate and to said rear plate and curving upwardly and rearwardly from said front plate, a seat attached to the upper extremity of said seat supporting member, an

upright member attached to said seat supporting member intermediate said seat and said front plate, a pair of hand grasps on said upright member, and a bed formed to receive the feet of a



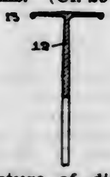
user, in superimposed relationship to the lower portion of said seat supporting member and attached thereto and to said front plate and said rear plate.

2,170,617

MANUFACTURE OF DISK WHEELS

William Wilson Hamill, Woodlands, Forest Lane, Chigwell, England, assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware

Application December 2, 1936, Serial No. 113,788
In Great Britain December 3, 1935
6 Claims. (Cl. 29—159.01)



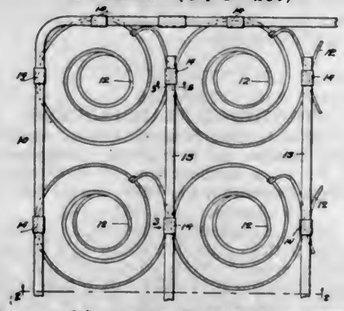
1. The manufacture of disk wheels for self-propelled vehicles from a length of flanged bar stock which comprises fashioning one flange of the bar into a disk by changing the cross-sectional thickness of said flange and varying the lengths of the parts that are changed in thickness, and fashioning the other flange of the bar into a tire-carrying rim part.

2,170,618

CUSHION AND MATTRESS SPRING

Walter F. Roeske, Chicago, Ill.

Application August 8, 1938, Serial No. 223,618
4 Claims. (Cl. 5—267)



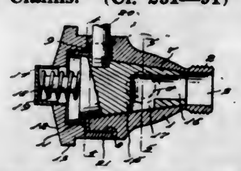
1. In a cushion or mattress spring assembly, a flat wire strip, a pair of coiled springs one disposed at each side of the strip with part of one end coil of each spring engaging one flat side of the flat wire strip, and a clip having a flat base part and two curved side flanges, the flat base part of the clip bearing against the opposite side of the flat wire strip and the curled side flanges engaging the side edges of the flat wire strip and the inner sides of the underlying parts of the end coils and extending partly around said underlying parts of the end coils with their end portions extending between the coils and abutting each other, their extremities abutting the flat wire strip and being swaged laterally into the crotches between the flat wire strip and the coils and along the coils.

2,170,619

DISPENSING VALVE

Ralph Sica, Philadelphia, Pa.

Application March 21, 1939, Serial No. 263,107
3 Claims. (Cl. 251—91)



1. In a dispensing valve, a valve casing having a tapered seat, an inlet, an outlet, a circumferentially extending segmental slot with a longitudinal slot leading therefrom through the juxtaposed end of the valve, a valve plug having an inlet and an outlet, a handle extending through said segmental slot and fixed to the valve plug, a ring fixed to the handle and rotatable on the valve casing, a closure for the valve casing retaining the ring in position, and a spring between the valve plug and the closure.

2,170,620

PROCESS FOR TREATING MINERAL OILS

Constantin Skrepinsky, Elizabeth, N. J., assignor to Standard Oil Development Company, a corporation of Delaware

No Drawing. Application December 24, 1936, Serial No. 117,537
7 Claims. (Cl. 196—40)

1. The method of treating hydrocarbon oils to produce a stable lubricating oil which comprises treating the lubricating oil distillate with a gas containing free oxygen of about 5 to 7 cubic feet of the said gas for every 300 grams of the oil per hour at a temperature of about 400–450° F. for a period of about 3 to 4 hours, treating the said oxidized oil with 1 to 30% sulfuric acid and separating the acid sludge that is formed.

2,170,621

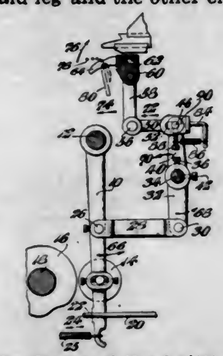
KNITTING APPARATUS

Frank Stevenson, West Lawn, Pa., assignor to Howard Hosiery Company, Sinking Spring, Pa., a corporation of Pennsylvania

Application April 13, 1938, Serial No. 201,680
1 Claim. (Cl. 66—109)

The combination with a knockover bit mechanism of a flat knitting machine and the actuating mechanism thereof, of means for yieldably tensioning the movement of said knockover mechanism and the consequent pressure applied thereby on the stitches of a fabric being knit, said means comprising a link having a round opening formed through one end thereof adapted to engage a pin at the lower end of an arm, which arm supports and engages the knockover bit shaft, and having an elongated opening at the other

end thereof adapted to engage a round cross-sectional shaft forming part of the knockover bit actuating mechanism, a pendant leg formed at the end of said link adjacent said elongated opening, and a spring having one end thereof connected to said leg and the other end thereof con-



nected to the frame of the knitting machine for constantly urging said link in the direction of said pin, whereby said link is enabled to move away from said pin and against the tension of said spring when the tension of the knockover bit mechanism has reached a predetermined limit.

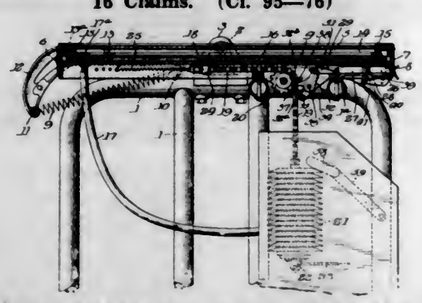
2,170,622

SUCTION PRINTING FRAME

Max Sussin, Chicago, Ill., assignor to Robert R. Robertson, Chicago, Ill.

Application August 16, 1937, Serial No. 159,255

16 Claims. (Cl. 95—76)



5. In photographic printing apparatus, a printing frame, means for mounting said frame for movement thereof back and forth between loading position and exposure position and whereby the same normally assumes loading position, latching means operable to lock said frame in loading position, a motor for moving the frame to exposure position, and a connection between said latching means and said motor whereby said latch means is operated in accordance with the operation of said motor to unlatch the frame and permit the same to respond to said motor when the latter seeks to impart movement thereto.

2,170,623

MEANS FOR CONTROLLING THE OUTPUT POWER OF ELECTRIC MOTORS

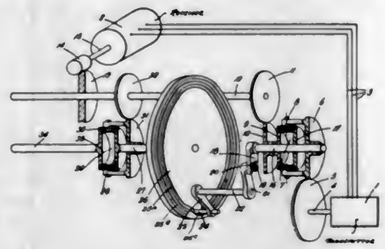
John Percival Watson, Sidcup, England, assignor to Vickers-Armstrongs Limited, London, England, a British company

Application August 22, 1938, Serial No. 226,154

In Great Britain August 20, 1937

4 Claims. (Cl. 172—239)

1. A hunter power follow-up apparatus comprising a step-by-step transmitter and a step-by-step receiver, electrical connections between the transmitter and receiver, a mechanical connection between the mechanical input member of the transmitter and the mechanical output member of the receiver, a differential gear included in said mechanical connection whereby the centre member of such differential gear constitutes the



sensitive control element of the power follow-up system thus formed, means for off-setting said sensitive control element in either direction away from its zero position, an operative connection between said mechanical connection and said means to permit the latter to be returned to a position corresponding to zero setting of said sensitive control element.

2,170,624

PROCESS FOR THE PREPARATION OF PENTAERYTHRITOL

Joseph A. Wyler, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.

No Drawing. Application January 11, 1938, Serial No. 184,457

5 Claims. (Cl. 260—635)

1. The process for the preparation of pentaerythritol comprising the alkaline condensation of acetaldehyde with formaldehyde essentially free from methanol, in aqueous solution.

2,170,625

STABILIZATION OF ALDEHYDES

Joseph A. Wyler, Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.

No Drawing. Application March 28, 1938, Serial No. 198,489

5 Claims. (Cl. 23—250)

1. A composition of matter comprising, in solution, one or more saturated aliphatic aldehydes, water and an oxalate, said oxalate being present in minor proportions.

2,170,626

APERIODIC TRANSFORMER

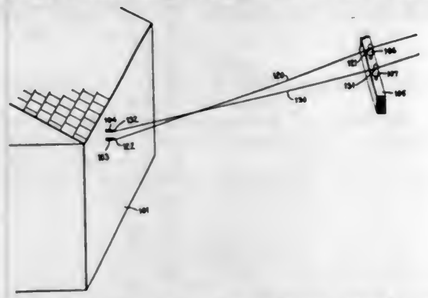
Andrew Alford, San Mateo, Calif., assignor to Mackay Radio & Telegraph Company, New York, N. Y., a corporation of Delaware

Application December 28, 1937, Serial No. 182,092

6 Claims. (Cl. 178—44)

1. A high frequency aperiodic transformer comprising a first pair of supports, a second pair of supports spaced from said first pair of supports and disposed in a different plane from that of said first pair and separated by a smaller distance than said first pair of supports, and two conductors of substantially uniform cross-section each stretched from one of said first pair of supports to one of said second pair of supports said supports being so related that said conductors

are not in the same plane, whereby a non-linear spacing relationship exists between the conduc-



tors to effect the desired impedance transformation.

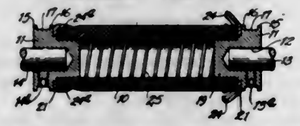
2,170,627

FLEXIBLE COUPLING FOR SHAFTS

Harry H. Berryman, Chicago, Ill.

Application April 4, 1938, Serial No. 199,811

2 Claims. (Cl. 64—11)



1. A flexible coupling for shafts comprising spaced aligned metal bodies adapted to receive the ends of shafts to be coupled and having reduced portions on the facing ends, a resilient sleeve surrounding and connecting said reduced portions, and a helical spring slidably enclosed within the sleeve and under endwise compression so as to maintain the sleeve under tension and to prevent its buckling under torsion.

2,170,628

PROCESS OF REFINING LUBRICATING OILS

Ferdinand W. Breth, Petrolia, Pa., assignor to L. Sonneborn Sons, Inc., a corporation of Delaware

No Drawing. Application May 20, 1937, Serial No. 143,731

3 Claims. (Cl. 196—147)

1. In the refining of lubricating oils, the steps which comprise contacting a lubricating oil fraction, at a temperature between about 100° F. and 300° F., with bauxite activated by heating between about 600° F. and 1600° F., and of a particle size substantially between 30 and 60 mesh, derived from bauxite ore having at least 20% of water of constitution and capable of removing asphaltic matter forming constituents, and maintaining such contact at such temperature for a period of time sufficient to remove from said oil asphaltic matter forming constituents in an amount not less than 3% of the total oil so contacted.

2,170,629

COLLOIDAL COMPOSITION

Jesse B. Bronstein, Jr., Allentown, Pa., assignor to Trojan Powder Company, Allentown, Pa.

No Drawing. Application July 2, 1938, Serial No. 217,305

2 Claims. (Cl. 52—13)

1. A colloidal composition comprising between 25% and 75% of nitrostarch and between 75% and 25% of nitroisobutylglycerol trinitrate.

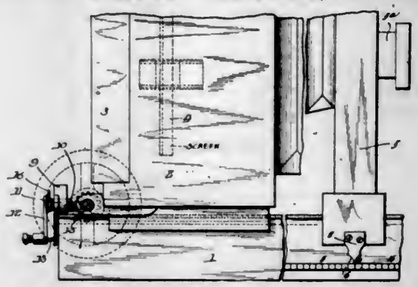
2,170,630

SCREEN FOCUS COMPENSATOR

James Borivoj Cernohouz, Chicago, Ill., assignor to Robert R. Robertson, Chicago, Ill.

Application October 18, 1937, Serial No. 169,538

3 Claims. (Cl. 95—81)



1. In photographic copying apparatus, the combination of a lens frame, a focal plane frame, means removably mounting a half-tone screen in effective relation to the focal plane frame, said lens frame being free to receive measured focusing movements relatively to the focal plane frame, said focal plane frame being free to receive corrective focusing movement rearwardly from and independently of said lens frame and a stop arresting said rearward movement of the focal plane frame, adjustable in the direction of said movement, and having calibrated means for fixing it at different degrees of adjustment commensurate with the refractive effects of different half-tone screens used in the camera.

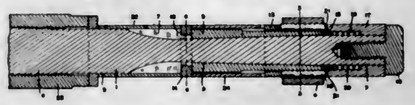
2,170,631

BEARINGIZING TOOL

Stuart A. Cogsdill, Detroit, Mich., assignor to Cogsdill Twist Drill Company, Inc., Detroit, Mich., a corporation of Michigan

Application March 25, 1938, Serial No. 198,150

5 Claims. (Cl. 29—90)



1. A bearingizing tool comprising a revoluble arbor having a series of angularly spaced slots formed with inclined bottoms, cam members in said slots and adjustable relative to said arbor, a series of angularly spaced processing rolls encircling said arbor and adapted to be engaged by said cam members to be forced outwardly thereby into engagement with the work to deliver a series of impacts thereto, and means for adjusting said cam members relative to said arbor.

2,170,632

COMPOSITION OF MATTER

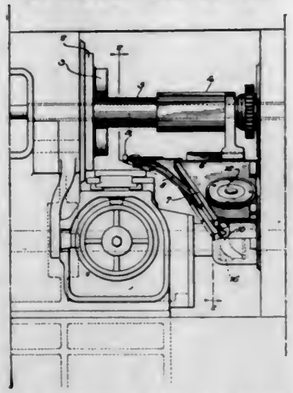
Ralph T. K. Cornwell, Fredericksburg, Va., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia

No Drawing. Application August 7, 1937, Serial No. 157,935

14 Claims. (Cl. 134—79)

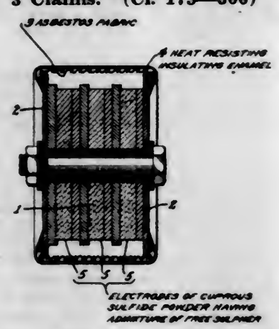
5. A composition for preparing flexible transparent and non-tacky coatings or films, comprising a compatible mixture of a cellulose derivative and the reaction product of a fatty acid with a mono-carboxylic acid of the benzophenone series.

2,170,633
STOCK STOP
Alfred E. Drissner, Cleveland, Ohio, assignor to The National Acme Company, Cleveland, Ohio, a corporation of Ohio
Application February 23, 1938, Serial No. 192,018
14 Claims. (Cl. 29—37)



1. A spindle machine having a sliding tool carrier, a stationary tool carrier guide bracket at the under side of said carrier and having an inclined front end face, a work stop supported by and movable along said face, and means for shifting it.

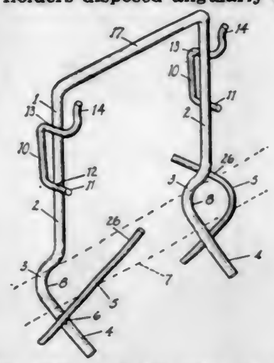
2,170,634
SULPHIDE RECTIFIER
Leslie James Ellison, London, England, assignor to International Standard Electric Corporation, New York, N. Y.
Application April 3, 1937, Serial No. 134,899
In Great Britain June 5, 1936
3 Claims. (Cl. 175—366)



1. A dry contact metal rectifier of the sulphide type having an electrode formed of a powdered sulphide mixed with free sulphur, and a heat resisting impervious cover comprising an asbestos fabric coated with a heat resisting and electrically insulating enamel, paint or varnish.

2,170,635
COMBINED REINFORCE ELEMENT AND SUPPORT
Lawrence F. Emigholz, Albion, Mich., assignor to Union Steel Products Company, Albion, Mich.
Application December 6, 1937, Serial No. 178,239
7 Claims. (Cl. 72—122)

5. A structure of the class described comprising an inverted U shaped upright having the lower ends of its arms disposed angularly providing legs, and combined leg members and reinforce bar holders disposed angularly across said



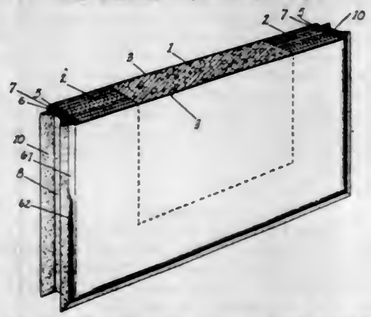
first named legs with the point of intersection of the leg members and legs in spaced relation to the ends thereof.

2,170,636
HAIR FASTENER
Philip J. Graham, Leominster, Mass., assignor to Fosgood Corporation, Leominster, Mass., a corporation of Massachusetts
Application October 19, 1938, Serial No. 235,709
6 Claims. (Cl. 132—48)



1. In a hair fastener of the character described, a clasp comprising two arms, one of said arms having notches therein, a cover for said clasp, projections extending from said cover arranged to fit into said notches of said notched arm, said notches and projections cooperating to prevent accidental endwise displacement of said clasp relative to its cover.

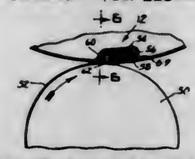
2,170,637
INSULATING WALL PANEL
Charles T. Hatch and Ivar R. Swanson, Albion, Mich., assignors to Union Steel Products Company, Albion, Mich.
Application February 24, 1938, Serial No. 192,299
14 Claims. (Cl. 189—34)



7. An insulating panel comprising a core sheet of fibrous insulating material, a border strip of relatively hard non-metallic material disposed at the edge of said core sheet, metal side plates

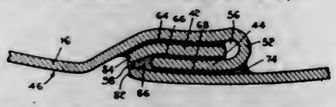
disposed on the sides of said core sheet and said border strip and secured to the sides of said border strip, and a yielding compressible joint strip secured to the edge of said border strip.

2,170,638
SOLDERED CAN SEAM AND METHOD OF MAKING SAME
Arthur G. Hopkins, Maspeth, N. Y., assignor to McKeesport Tin Plate Corporation, a corporation of Delaware
Application March 21, 1936, Serial No. 70,064
5 Claims. (Cl. 113—112)



1. In the manufacture of a soldered metal seam for sheet metal cans or the like, the method which consists in forming two reversely disposed hook edges, one to define an outer hook and the other an inner hook, the outer hook being provided at its bend with a plurality of spaced substantially long slits extending along the bend, and in interlocking said hook edges to form the seam, whereby the said seam has four thicknesses of metal with three intervening solder spaces in both its slitted and contiguous unslitted regions and whereby the slits, defining solder entrant openings, communicate directly with the two solder spaces within the outer hook at the slitted region and thence into said two solder spaces in the unslitted regions, providing therefor direct and parallel passages for solder flow; and then feeding solder from the outside directly into said seam, whereby solder is supplied to said two solder spaces and to the innermost or third solder space by three short direct paths.

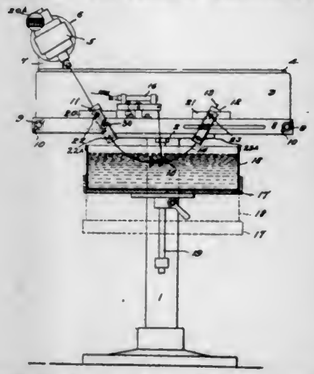
2,170,639
SOLDERED METAL SEAM FOR SHEET METAL CANS AND METHOD OF MAKING SAME
Arthur G. Hopkins, Maspeth, N. Y., assignor to McKeesport Tin Plate Corporation, a corporation of Delaware
Application October 20, 1936, Serial No. 106,513
5 Claims. (Cl. 113—112)



1. A soldered metal seam for sheet metal cans or the like, said seam comprising two reversely disposed hook edges interlocked to form four thicknesses of metal with three solder spaces therebetween, the outer hook having at its bend a solder entrant opening which provides direct passage for solder flow into the two solder spaces within the outer hook in addition to the normal solder flow into the innermost solder space, the inner hook having at its bend an enlargement to provide an air space enlarged in cross-section to receive and permit the longitudinal movement of air and to finally trap the residual air as the solder flows into the two solder spaces within the said inner hook.

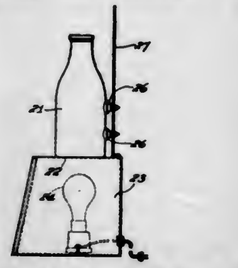
2,170,640
FATIGUE TESTING MACHINE
John N. Kenyon, New York, N. Y.
Application November 29, 1937, Serial No. 176,973
2 Claims. (Cl. 73—51)

1. An apparatus for subjecting a test wire of small diameter to fatigue testing in a substantially circular arc without contact of its arcuate portion with a solid surface to determine the weakest point in the test wire and to determine the truly representative fatigue value of the test wire by failure at said weakest point which comprises a frame, two open-ended bearings mounted on said frame, said bearings having their axes in substantially the same plane but not in alignment with each other and being adapted for freely engaging a test wire undergoing fatigue testing to cause the same to assume a substan-



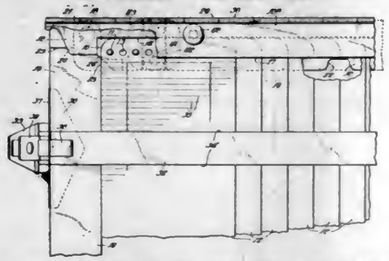
tially circular arc, and means for rotating a test wire and holding one end thereof substantially in axial alignment with one of said bearings, whereby said test wire has its other end free to move longitudinally as well as rotationally, and whereby said test wire automatically assumes during rotation a substantially circular arc between said bearings without contact of said arc with a solid surface, thereby uniformly stressing said test wire along said circular arc and producing failure at the weakest point therein to give a truly representative fatigue value.

2,170,641
ILLUMINATED ADVERTISING DISPLAY
Ralph Lancelot, Pittsburgh, Pa.
Application May 11, 1937, Serial No. 141,890
2 Claims. (Cl. 40—126)



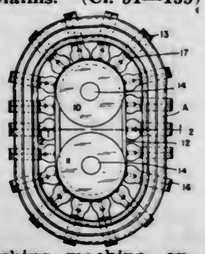
1. An advertising display comprising a box, a translucent panel in the front of the box adapted to receive an advertisement, the top of the box being provided with an opening, a bottle mounted on the box over said opening, an upright shield rigidly mounted on the box behind the bottle, a vacuum cup secured to the shield and detachably connected to the bottle to hold it in place, and a light in the box below said opening for projecting light rays up into the bottle, the side wall of the bottle being translucent to thereby diffuse the light rays substantially uniformly.

2,170,642
SLIP ACCOUNTING DEVICE
Alfred M. Martin, Park Ridge, Ill.
Application June 4, 1937, Serial No. 146,334
10 Claims. (Cl. 120—33)



10. In a device of the class described, the combination of right-angularly related mounting and line-finder side guide means, all adapted to be unitarily invertible with the side guide at either the left-hand or right-hand end of the mounting means while the mounting means remains at the top, and a separable line finder right-angularly engageable with the side guide in either of said positions.

2,170,643
RUBBING MACHINE
Edwin R. Mason, Detroit, Mich., assignor to Motor Products Corporation, Detroit, Mich., a corporation of New York
Application September 20, 1937, Serial No. 164,819
2 Claims. (Cl. 51—135)

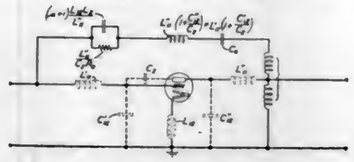


1. In a polishing machine, an endless belt reeved around pulleys and driven by one of the pulleys, a plurality of polishing members spaced from each other in the direction of the path of travel of the belt and extending outwardly from said belt, each of the polishing members composed of flexible laminations folded intermediate the opposite edges to provide an extended yieldable polishing surface around the belt, fastening means extending through the folded portions of the laminations and through said belt for securing the polishing members to the belt, and additional fastening means passing through all the laminations intermediate the transverse edges of the latter and the points of attachment of the laminations to the belt to hold the laminations in co-operative relation and to form a flexible polishing surface capable of being readily deformed by the article being polished.

2,170,644
WETTING AND SPREADING AGENT FOR OILS
Franklin C. Nelson, Roselle, N. J., assignor to Stanco, Incorporated
No Drawing. Application August 10, 1937, Serial No. 158,374
9 Claims. (Cl. 252—1)

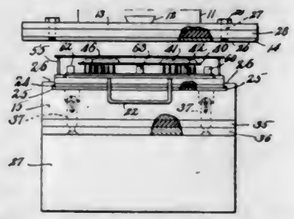
1. A process for inhibiting evaporation from a body of water having a limited surface area which comprises coating the surface of the water with a stable solution of an alkyl phenol in a saturated mineral oil, said solvent being stable against oxidation and loss on exposure to the atmosphere, being free from ingredients which contaminate the water internally and acting as a uniformly and continuously spread protective coating between the atmosphere and the surface of the water.

2,170,645
HIGH FREQUENCY AMPLIFIER
Liss C. Peterson, Madison, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application January 3, 1938, Serial No. 182,955
6 Claims. (Cl. 179—171)



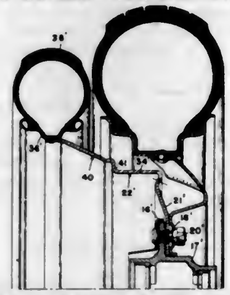
1. In combination with a space discharge device having a cathode, an anode and a control grid, input and output circuits connected to the cathode and respectively to the grid and anode, said device having inherent capacity between its grid and anode and the anode lead to said output circuit having effective series inductance, and a two-terminal network connected from a point of proper phase in the output circuit to the grid and consisting of capacity, inductance and resistance in series relation with one another, said network having its elements proportioned with respect to the other elements of the circuit to neutralize the said inherent capacity and effective inductance.

2,170,646
PERFORATING MACHINE
Stig E. Rosenberg, Brockton, Mass.
Application April 13, 1938, Serial No. 201,699
6 Claims. (Cl. 164—93)



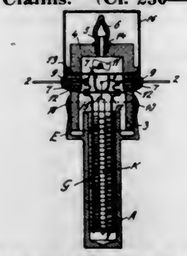
5. In a perforating machine, the combination with a perforating die and a die striking plate between which the work is penetrated and pierced by the cutting edges of the die, a plunger having a constant stroke for operating the die striking plate, the striking plate and the plane of the cutting edges of the die being normally spaced apart a distance less than the work piercing stroke of the plunger, and means permitting the die and the die striking plate to yield relatively during the penetration of the work by the cutting edges of the die, of rigid means on the machine frame for causing the cutting edges of the die to kiss the striking plate at the moment the cutting edges pierce the work.

2,170,647
WHEEL CONSTRUCTION
Charles S. Ash, Milford, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application July 22, 1935, Serial No. 32,640
3 Claims. (Cl. 301—39)



1. In a vehicle wheel, a hub, a pneumatic tire carrying rim supported from the hub, and a brake drum carried by the hub having an annular brake flange provided with an integral extension at the free edge thereof supporting an auxiliary road engaging portion adjacent the pneumatic tire carried by the rim.

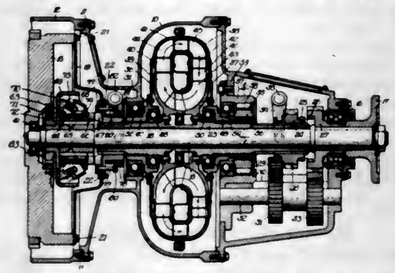
2,170,648
ELECTRIC DISCHARGE TUBE
Otto Baier and Annemarie Katsch, Berlin, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company
Application August 12, 1937, Serial No. 158,661
In Germany August 18, 1936
2 Claims. (Cl. 250—27.5)



1. A discharge tube having a vessel whose wall comprises separate ceramic parts, an electrode system contained in this vessel, leads connected to the electrode system and extending through said wall, these leads being located in one plane normal to the axis of the electrode system, sleeves of ceramic material surrounding said leads and located in recesses provided in the edge of one of the ceramic wall parts, and a seal in said sleeves for the lead projecting therethrough.

2,170,649
VARIABLE SPEED TRANSMISSION
Oscar H. Banker, Chicago, Ill., assignor to New Products Corporation, Chicago, Ill., a corporation of Delaware
Application August 2, 1934, Serial No. 738,127
5 Claims. (Cl. 192—48)

2. In combination, a torque converter comprising fluid-connected driving and driven members, means biased in response to the speed of one of said members for mechanically connecting both of said members together, and manually operable means to overrule said first mentioned means and disconnect said mechanical connection at the option and under the control of the operator,

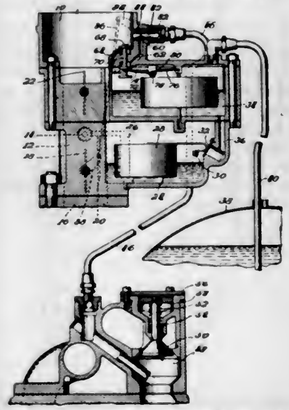


whereby to reestablish at will the fluid-connected drive between the driving and driven members.

2,170,650
ALLOY
George M. Bouton, Lynbrook, N. Y., and Earle E. Schumacher, Maplewood, N. J., assignors to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
No Drawing. Application September 2, 1936, Serial No. 99,090
4 Claims. (Cl. 75—167)

1. An alloy for storage battery electrodes consisting of .01 to .15% calcium, .005 to .05% barium and the balance lead.

2,170,651
FUEL FEEDING SYSTEM
Robert F. Bracke, Chicago, Ill.
Application January 16, 1936, Serial No. 59,390
3 Claims. (Cl. 123—119)



1. In a fuel feeding system for internal combustion engines having intake manifolds, the combination of a carburetor having a float chamber, a fuel feeding nozzle communicating with and supplied with fuel from said float chamber, a mixing chamber into which said nozzle discharges, said mixing chamber adapted to communicate with an intake manifold, a vacuum chamber, means including a passageway, a valve and a float in said float chamber for controlling communication between said float chamber and said vacuum chamber, a main fuel tank spaced from said vacuum chamber, a pipe connecting said fuel chamber with said vacuum chamber, a throttle valve controlling communication between said mixing chamber and intake manifold, a

Venturi tube discharging into the intake manifold, a connection between said vacuum chamber and the throat of said Venturi tube, a float in said vacuum chamber controlling said communication and also controlling communication between said vacuum chamber and atmosphere, and a valve for limiting the degree of suction created in said vacuum chamber.

2,170,652

APPLIANCE FOR PROTECTING PORTIONS OF A SHOE DURING CLEANING OR POLISHING

Martin M. Brennan, Chicago, Ill.

Application September 8, 1936, Serial No. 99,688
5 Claims. (Cl. 36—72)



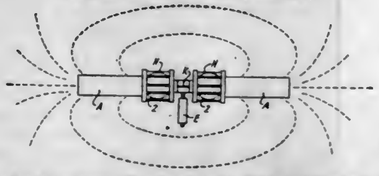
1. A device for protecting the upper face of a sole edge during a cleaning or polishing of the uppers of a shoe comprising a grooved flexible member adapted to yieldably fit about the sole edge and cover the upper face thereof, the inner edge of said grooved member being relatively pointed to extend inwardly to the seam between the sole and the uppers without contacting the uppers to cover or shield any portion thereof, said member being reinforced along its outer edge to hold the inner pointed edge firmly upon the upper face of the sole edge.

2,170,653

ELECTRON DISCHARGE TUBE FOR ULTRA HIGH FREQUENCY SYSTEMS

Werner Buschbeck, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie, m. b. H., Berlin, Germany, a corporation of Germany

Application November 18, 1936, Serial No. 111,346
In Germany November 18, 1935
2 Claims. (Cl. 250—27.5)



1. An electron discharge device comprising two cylindrically formed and coaxially arranged anodes hermetically closed at their outer extremities, tubular insulating means sealed to the inner extremities of said anodes and forming in combination therewith a vacuum-tight envelope, cathodes and control grids concentrically disposed within and in juxtaposition to the anodes and forming therewith two electrode groups, concentric terminal leads connected to said cathodes and to said control grids, said leads being admitted through the envelope at points adjacent the transverse plane of symmetry of said discharge device, capacity means for excitation of the cathode and grid within one group, means for causing the cathode and grid within the other group to remain temporarily passive, and means constituted by the relative arrangement of the electrodes and of their leads for causing the interelectrode capacitances to be neutralized.

2,170,654

ADHESIVE-COATED PAPER

Harold R. Dalton, Teaneck, N. J., assignor to Postal Telegraph-Cable Company (New York), New York, N. Y., a corporation of New York

No Drawing. Application April 23, 1936, Serial No. 76,077
9 Claims. (Cl. 91—68)

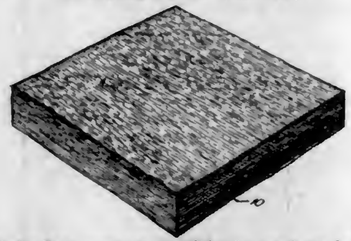
1. As an article of manufacture, a roll of paper, a layer of hygroscopic water-soluble adhesive on one side of said paper, and superposed on said layer a slightly tacky protective layer of dextrin having admixed therewith a relatively small percentage of starch.

2,170,655

LAMINATED CREPE CELLULOSIC PRODUCT

Charles A. Fourness, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin

Application September 5, 1936, Serial No. 99,520
2 Claims. (Cl. 154—44)



1. A bulky, porous, multi-ply pad or bat particularly suitable for use as an insulating material, comprising a plurality of superposed, thin, creped, cellulosic sheets each of which contains from 10% to 50% by weight of an asphalt which is relatively brittle at room temperatures, and which has a melting point within the range of 140° F. to 200° F., said asphalt being in the form of small, discrete particles of widely varying dimensions, and substantially all of said particles being individually attached to individual fibers or groups of the fibers making up each of said sheets, whereby the individual fibers in said pad or bat are unequally loaded or weighted, said pad or bat having a stable density under ordinary manufacturing conditions within the range of 1.25 to 2.00 pounds per cubic foot.

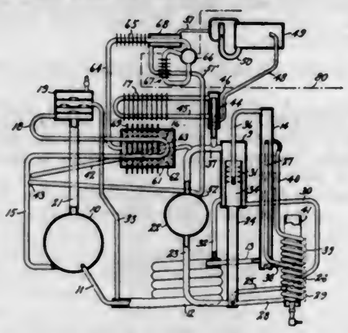
2,170,656

REFRIGERATION

Gunnar Grubb, Stockholm, Sweden, assignor, by mesne assignments, to Servel, Inc., New York, N. Y., a corporation of Delaware

Application August 12, 1936, Serial No. 95,492
In Germany August 27, 1935
17 Claims. (Cl. 62—118)

1. Refrigeration apparatus including a system having alternate periods of expulsion of refrigerant from absorbent and evaporation of refrigerant and including vessels and conduits forming at least two circuits for circulation of absorption liquid so constructed and arranged that during periods of refrigerant expulsion absorption liquid circulates in one of said circuits without producing circulation in the other of said circuits, an evaporator, an absorber, a conduit connecting said evaporator and said absorber, and said absorber being in heat exchange relation with a part of the other of said circuits.



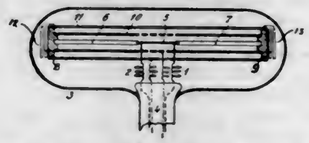
16. A method of refrigeration which includes flowing absorption liquid alternately in different paths having separate places of external and internal heating respectively to carry out an intermittent absorption refrigeration cycle, and utilizing heat from the place of internal heating to supply input for an alternate intermittent refrigeration process.

2,170,657

ELECTRON TUBE

Robert Herzog, Berlin-Wilhelmshagen, Annemarie Katsch, Berlin-Lichterfelde, Germany, assignors to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Application December 20, 1935, Serial No. 55,398
In Germany January 10, 1935
4 Claims. (Cl. 250—27.5)



1. An ultra short-wave electron tube comprising in combination a plurality of concentrically disposed tubular members, insulating means supporting said members in spaced relation, a filamentary cathode disposed axially of the inner tubular member, said members and said cathode forming an electrode structure, and lead-in wires for said electrode structure comprising free resilient coils which constitute the sole supporting means of said electrode structure, said means comprising both high frequency choking means and means for protecting the electrode structure against mechanical shocks.

2,170,658

ENAMEL COMPOSITION

Robert Tyler Hucks, South River, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application August 31, 1934, Serial No. 742,281
7 Claims. (Cl. 260—16)

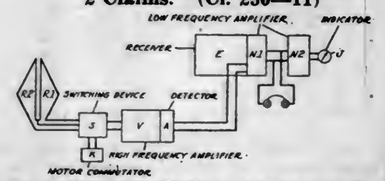
1. A protective and decorative coating composition comprising a polyhydric alcohol-polybasic acid resin containing the acid radical of an oil having drying properties, a natural resin, cellulose nitrate, a plasticizer, pigment and orthophosphoric acid in the amount of approximately 0.05–1.00% said resins forming the predominant film forming component.

2,170,659

DIRECTION FINDING ARRANGEMENT

Ernst Kramar, Berlin-Tempelhof, Germany, assignor to C. Lorenz Aktiengesellschaft, Berlin-Tempelhof, Germany, a company

Application January 23, 1936, Serial No. 60,378
In Germany January 24, 1935
2 Claims. (Cl. 250—11)



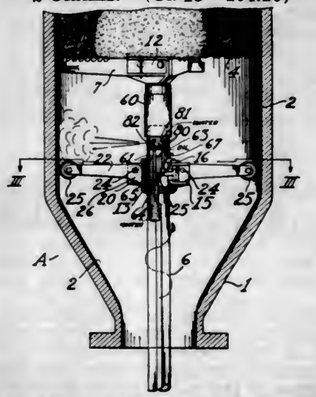
1. In a direction finding arrangement, a high frequency receiver, an antenna system consisting of two equal parts connected in opposite relation, means for switching these alternately to said receiver in dot dash rhythm, a transformer for producing voltage peaks, means for impressing the received signals on this transformer, and a pointer instrument connected fixedly to the secondary of said transformer for operation by said voltage peaks, this instrument being less sensitive in the outer positions of its pointer than in the vicinity of the zero position thereof.

2,170,660

COKE CLEANING DEVICE

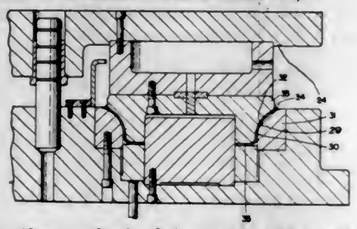
George J. Langmyhr, Sarnia, Ontario, Canada, assignor to Standard Oil Development Company, a corporation of Delaware

Application March 19, 1936, Serial No. 69,673
2 Claims. (Cl. 15—104.16)



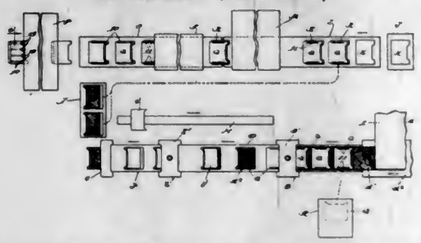
1. An excavating device having a head for removing solids from a container and a tubular shaft for rotating and advancing the head through the container, a guide for the head including a collar rotatively mounted on the shaft, a lubricant reservoir in the portion of the shaft adjacent the collar, a port opening through the shaft from the reservoir into the bearing between the collar and shaft, hydraulic means including non-inflammable liquid for advancing the shaft, means for diverting a portion of the non-inflammable liquid into the shaft, and tubes extending from the interior of the shaft through the reservoir for cooling the lubricant.

2,170,661
METHOD OF MANUFACTURING WHEEL BODY ELEMENTS
Frank H. Le Jeune, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application February 23, 1937, Serial No. 127,277
6 Claims. (Cl. 29—159.01)



1. In the method of forming a pressed metal wheel body having an axially extending rim engaging flange of predetermined diameter, those steps which consist in bending one end of a tubular blank inwardly, expanding the opposite end portion of the tubular blank to form the radially outer edge thereof to the approximate diameter of the rim engaging flange on the wheel body, fashioning the side wall of the blank to a predetermined contour while maintaining the diameter aforesaid of the radially outer edge of the blank, and refashioning the side wall of the blank by expanding a part of the blank to the diameter of the radially outer edge aforesaid to form the axially extending rim engaging flange.

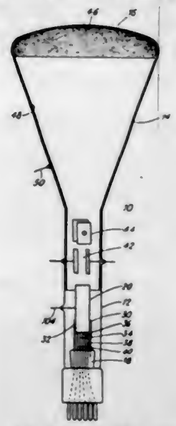
2,170,662
TRIM-PANEL MANUFACTURE AND APPARATUS
Allister S. Mitchell and Harold M. Ratley, Detroit, Mich., assignors to National Automotive Fibres, Inc., Detroit, Mich., a corporation of Delaware
Application June 27, 1936, Serial No. 87,776
10 Claims. (Cl. 154—1)



1. In the manufacture of trim-panels, a method which comprises: advancing a continuous bat and a series of superposed panel-plates; rupturing the bat between the panel-plates and trimming it at the edges of the panel-plate; applying a templet of lesser area against the individual bat opposite each panel-plate, and trimming the bats about edges of the associated templets.

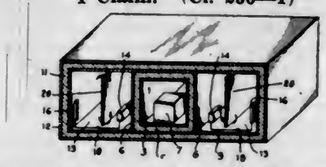
8. Apparatus for the purpose set forth, comprising; bat-rupturing-and-trimming mechanism equipped with means for feeding therethrough a continuous bat and superposed panel-plates, said mechanism being equipped over the path of travel of the bat and panel-plates with a suction-device; means for advancing a continuous bat and feeding said bat and panel-plates placed thereon to said mechanism; bat-trimming mechanism and a conveyor leading thereto from said first-mentioned mechanism, said bat-trimming mechanism being equipped at its upper portion with a suction-device; and templets of lesser area than individual bats associated with the panel-plates and adapted to be placed upon said individual bats and passed with the panel-plates and the interposed bats through said bat-trimming mechanism.

2,170,663
ELECTRON DISCHARGE DEVICE
William H. Painter, East Orange, N. J., assignor to Radio Corporation of America, a corporation of Delaware
Application March 30, 1935, Serial No. 13,854
5 Claims. (Cl. 250—163)



1. A cathode ray discharge device comprising an enclosing envelope having a stem, a plurality of rods extending from said stem, an anode mounted on said rods, said anode partially enclosing a cathode, control electrode and accelerating electrode mounted in concentric relation with said anode and supported thereby independently of said stem.

2,170,664
TEMPERATURE COMPENSATION DEVICE
Hugo Romander, Irvington, N. J., assignor to Federal Telegraph Company, Newark, N. J., a corporation of California
Application January 2, 1937, Serial No. 118,915
1 Claim. (Cl. 236—1)

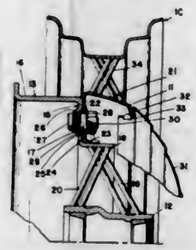


A temperature control system for maintaining a substantially constant temperature within an enclosure in the presence of an ambient atmosphere of varying temperature, comprising a controlled chamber and a controlling chamber contiguous to each other and having a common wall between them, a baffle partially dividing said controlling chamber into two compartments, the first of which is adjacent said common wall and the second of which is remote from said common wall, a heater in said first compartment, a temperature sensitive device in said second compartment positioned to receive heat principally by convection, means for controlling said heater from said device, and means for providing an increased thermal conductivity from said second compartment to the ambient atmosphere.

2,170,665
VOLTOLIZED OILS AND PRODUCTS THEREOF
Robert P. Russell, Short Hills, N. J., assignor to Standard Oil Development Company, a corporation of Delaware
No Drawing. Application January 31, 1936, Serial No. 61,749
5 Claims. (Cl. 204—31)

1. A composition of matter consisting essentially of a polymerized liquid wax ester, said polymerized liquid wax ester being soluble in hydrocarbon oils and having a viscosity of at least 540 Saybolt seconds at 210° F. obtained by silent electric discharge polymerization of a liquid wax ester which occurs as an ingredient of spermaceti.

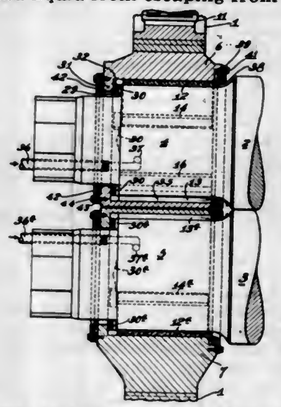
2,170,666
WHEEL
Charles W. Sinclair, Detroit, Mich., assignor to Kelsey-Hayes Wheel Company, Detroit, Mich., a corporation of Delaware
Application June 17, 1935, Serial No. 27,075
11 Claims. (Cl. 301—6)



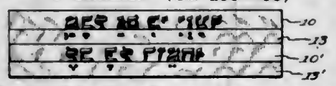
1. In a vehicle wheel assembly, a hub, a brake drum having an annular brake flange and having a web, said web having a central opening therethrough for receiving the hub and having an annular flange extending axially forwardly from the marginal edges of the opening, means connecting the forwardly extending flange to the hub at points spaced axially on the latter, and a wheel body element positioned in engagement with the front side of the web by the annular forwardly extending flange and demountably secured to said web.

2,170,667
WATER-LUBRICATED BEARING
John A. Smitmans, Pittsburgh, Pa., assignor to United Engineering & Foundry Company, Pittsburgh, Pa., a corporation of Pennsylvania
Application May 18, 1935, Serial No. 22,165
10 Claims. (Cl. 308—76)

4. In a rolling mill, a roll neck supporting chuck having a roll neck receiving opening in it, a part circle bearing replaceably mounted in said opening to take the roll neck wear, an inwardly projecting flange on the chuck at the outer end of said opening disposed to engage a shoulder on the roll neck and take the end thrust of the roll, a ring bearing mounted between said flange and shoulder having radially lubricating grooves therein, means for supplying a cooling and lubricating liquid to the portion of said opening not occupied by said bearings, means for preventing said liquid from escaping from one end of said opening, and means for regulating its escape from the other end.

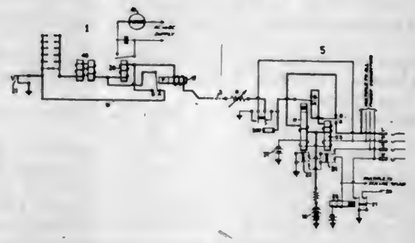


2,170,668
PRINTING METHOD AND APPARATUS THEREFOR
Abraham Solodar, Chicago, Ill.
Application August 22, 1936, Serial No. 97,320
8 Claims. (Cl. 199—66)



1. The combination in a printing system of the character described for printing in Hebrew and similar characters, of matrices for casting consonant characters of more than one width but each single consonant having only one width, and matrices for casting vowal characters, each vowel character having a matrix corresponding to each width of consonant matrix, whereby said matrices may be employed to cast slugs of consonants and slugs of vowels which may be placed side by side in accurate register.

2,170,669
AUTOMATIC PRINTING TELEGRAPH EXCHANGE SYSTEM
Gilbert S. Vernam, Hackensack, N. J., assignor to Postal Telegraph-Cable Company (New York), New York, N. Y., a corporation of New York
Application February 20, 1937, Serial No. 126,769
16 Claims. (Cl. 178—2)



1. In a printing telegraph system, a subscriber's station, a central office, a line circuit from the subscriber's station interconnecting said station and office, means at the central office for

establishing connection between the subscriber's line circuit and an idle printer at said central office, and means operative alternatively in response to an increase, or a decrease and a subsequent increase in normal line current for operating said first named means.

2,170,670

SALTS OF 2-MERCAPTO-BENZOTHIAZOLE

Ira Williams, Woodstown, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application October 16, 1936, Serial No. 105,916

11 Claims. (Cl. 18—53)

5. Water-insoluble heavy metal salts of 2-mercapto-benzothiazole in finely divided form the particles of which are coated with neutral inert water-insoluble oily or waxy hydrocarbons, the coated salts being substantially dry materials tending to form soft lumps.

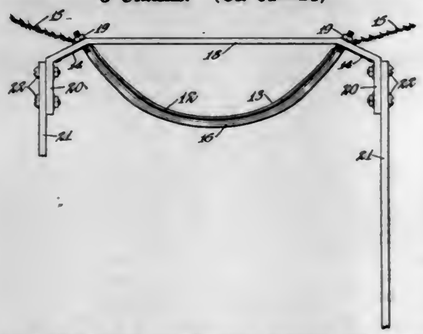
2,170,671

FLUME AND DITCH LINING

Robert Adler, St. Paul, Minn.

Application June 18, 1938, Serial No. 214,497

8 Claims. (Cl. 61—14)



1. A flume for conducting surface water comprising, an open channel formed from sheet metal, integral flanges extending continuously from end to end of said channel and projecting substantially below and from the side edges of the same to be imbedded in the earth, said flanges being of such width and sufficiently imbedded to prevent the undermining of said channel by surface water and means for anchoring said channel in the earth.

2,170,672

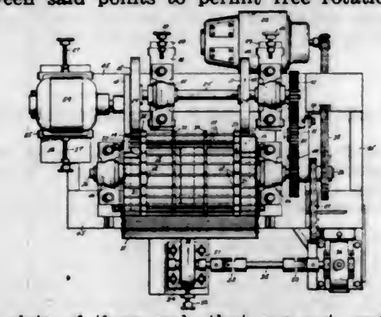
APPARATUS FOR ABRADING COATINGS FROM RODS

Jasper E. Anderson, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application November 27, 1936, Serial No. 113,045

8 Claims. (Cl. 51—103)

1. Apparatus for successively abrading a portion of the periphery from each of a plurality of rods, comprising a conveyor provided with slots, means for supplying a single rod to each slot of said conveyor means, and means for rotating said rods and for abrading selected portions thereof while said rods are supported within said slots of said conveyor means, said slots of said conveyor means having a width slightly greater than the width of said rods at a point adjacent said rotating and abrading means and at a point spaced therefrom and being enlarged along the portions between said points to permit free rotation in



said slots of those rods that are not perfectly straight.

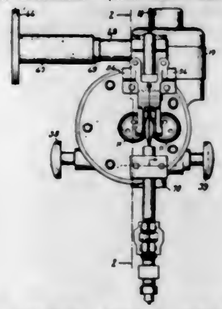
2,170,673

WIRE-FEEDING DEVICE

Jasper E. Anderson, Scotia, N. Y., assignor to General Electric Company, a corporation of New York

Application October 16, 1937, Serial No. 169,447

16 Claims. (Cl. 140—125)



1. A wire feeding device comprising roller means having working surfaces which simultaneously engage a wire to be fed and are positioned relative to one another to form a tapered opening therefor, means for directing a wire lengthwise through said opening, and means for biasing said wire to the more constricted portions of said opening into simultaneous engagement with said working surfaces of said roller means.

2,170,674

CURTAIN ROD THREADING DEVICE

Henry Auslander, Brooklyn, N. Y.

Application February 8, 1938, Serial No. 189,292

2 Claims. (Cl. 223—105)



1. A device of the class described, comprising a curtain rod of the flat C-shape type, a one-piece threading device for engagement on the end of said curtain rod, comprising a bottom wall having a pointed front end and a rear end having parallel side edges, side walls continuing from the front and rear side edges of said bottom wall and extending at right angles to said bottom wall, and flanges continuing from the edges of said side walls and being directed towards each other forming a device having an open rear end into which the end of said curtain rod may engage, said flanges being formed with openings, said curtain rod having the corners of its free edges bent outwards and engageable into said openings in said flanges for holding said threading device in a fixed position upon said rod.

2,170,675

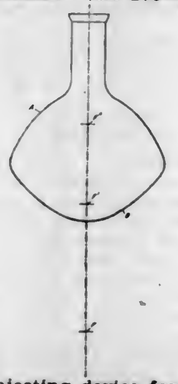
LIGHT PROJECTING DEVICE

Jean Bernard Ayral, Paris, France, assignor to General Electric Company, a corporation of New York

Application April 7, 1937, Serial No. 135,573

In France April 25, 1936

6 Claims. (Cl. 176—34)



1. A light projecting device for operation under water comprising a water-tight enclosure having a light source therein, said enclosure comprising two opposing surfaces of revolution having a common axis, one of said surfaces being light reflecting and the other being transparent, and said surfaces being so conjugated that the light rays reflected from said reflecting surface and passing through said transparent surface are refracted by the surrounding water so as to pass therethrough as a beam of parallel rays.

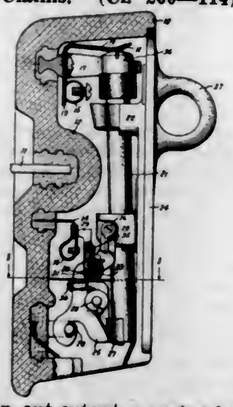
2,170,676

ELECTRIC CUT-OUT

Ralph S. Bennett, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application December 20, 1938, Serial No. 246,873

4 Claims. (Cl. 200—114)



1. In a drop-out cutout, a casing having spaced contacts therein, a door for an open side of the casing, said casing and door forming a compartment open adjacent one end of the casing, a fuse assembly including a fuse holder and spaced terminals therefor arranged for connection with said contacts, a hinge lever pivotally connected with said assembly and hingedly mounted on said casing adjacent said open end of said compartment for supporting said assembly in the compartment, said lever being releasably held against movement relative to said holder by means releasable upon fuse operation, and a barrier plate mounted on said lever adjacent said open end of said compartment and extending transversely of the compartment into proximity with the walls of said casing and the inner side of said door.

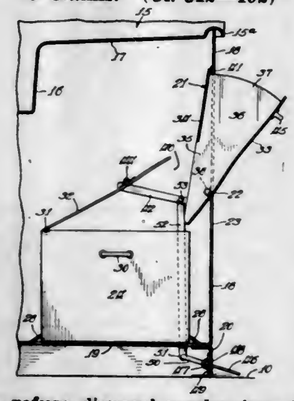
2,170,677

REFUSE RECEPTACLE

Louis B. Berg, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

Application May 4, 1938, Serial No. 205,943

8 Claims. (Cl. 312—192)



6. In a refuse disposal mechanism, in combination with a vertical wall having an opening therethrough, a chute mounted in said wall for movement from a normal position closing said opening to a position projected outwardly from said wall so that refuse may be deposited in its upper end, a receptacle disposed behind said wall, said receptacle having a closure member, and means operatively connecting said chute to said closure member so as to cause said closure member to be opened when said chute is projected outwardly.

2,170,678

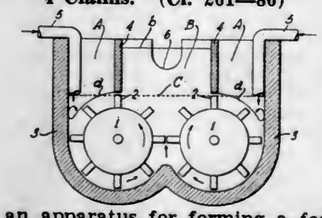
APPARATUS FOR TREATING MATERIALS

Wallace P. Cohoe, Riverdale-on-Hudson, N. Y.

Application August 18, 1937, Serial No. 159,654

In Great Britain July 12, 1937

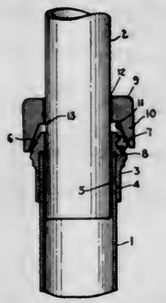
4 Claims. (Cl. 261—86)



1. In an apparatus for forming a foam in a continuous manner, the combination of a vessel adapted to contain a pool of liquid, a pair of

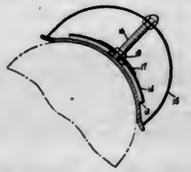
vertical baffles located above the surface of the pool, a rotatable roller having blades projecting therefrom and positioned adjacent and parallel to the lower edge of each of the baffles, means to rotate said rollers in opposite directions to produce two opposed circular converging currents of the liquid and means to supply liquid to at least one of said currents prior to the convergence.

2,170,679
LOCK FOR TELESCOPIC STANDARDS
Bert A. Dickerson, Decatur, Ill., assignor to Faries Manufacturing Company, Decatur, Ill., a corporation of Illinois
Application November 15, 1938, Serial No. 240,440
3 Claims. (Cl. 287—58)



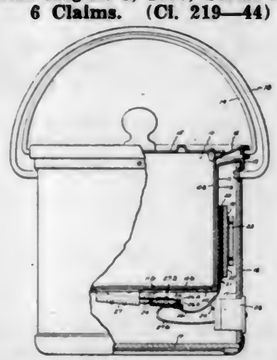
3. In a device of the character described, a pair of telescoping tubes, a projection confined to less than half of the circumference formed near the upper end of the outer of said tubes, a collar having a downwardly divergent internal surface loosely mounted on the inner of said tubes, the radial distance of said projection from the axis of said outer tube being intermediate the maximum and minimum radii of said divergent surface, said projection upon contact with said divergent surface acting to tilt said collar into locking engagement with said inner tube.

2,170,680
SHOE FOR ROTARY IRONERS
George W. Dunham, Westport, Conn., assignor to General Electric Company, a corporation of New York
Application October 30, 1937, Serial No. 171,980
1 Claim. (Cl. 38—66)



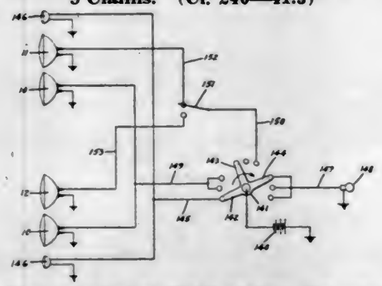
A shoe for a rotary ironer comprising a metal plate having an arcuate surface for cooperating with a roll and having the longitudinal edges extending outward at an acute angle to the adjacent surface on the roll, the edges being connected by a reverse curved portion having a curvature of substantially the same magnitude as the curvature of the central portion, and a cover plate fastened to and spaced from the rear side of the shoe, the edges of the cover plate butting and lying within the longitudinal edges of the shoe.

2,170,681
GLUE POT
Frank E. Finlayson, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application August 5, 1937, Serial No. 157,534
6 Claims. (Cl. 219—44)



1. A glue pot comprising a receptacle having bottom and side walls, one of these walls having a good heat conductivity and the other a relatively poor heat conductivity, a heating element in thermal relation with the wall having good heat conductivity, a thermostat in direct heat conducting relation with the wall having the poor heat conductivity, and means controlled by said thermostat controlling said heating means to hold a substantially constant temperature in the glue.

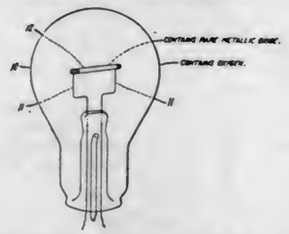
2,170,682
VEHICLE HEADLIGHTING SYSTEM
Theodore W. Frech and Ernest A. Howard, Cleveland Heights, and Kenneth D. Scott, Cleveland, Ohio, assignors to General Electric Company, a corporation of New York
Application August 21, 1937, Serial No. 160,278
5 Claims. (Cl. 240—41.3)



1. In a vehicle headlight system, the combination of a plurality of headlamps each comprising a concave light-concentrating reflector and lens and being provided with a light source adjacent the focus thereof, at least one of said headlamps constituting a base-beam lamp for use in city driving and having its lens provided with light-directing elements for projecting a beam of light of wide spread with its top below the horizontal, another of said headlamps constituting a country driving lamp and having its lens provided with light-directing elements for projecting a beam of light of high intensity straight down the road, the top of the beam projected by said country driving lamp being above the top of said base beam, and another of said headlamps constituting a country meeting lamp and having its lens provided with

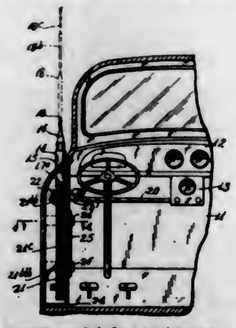
light-directing elements for projecting a beam of light at least a portion of which is higher than said base beam on the right side of the road only, and switch means operable to energize said base-beam lamp alone or to selectively energize either said base-beam lamp alone or to selectively energize either said country driving lamp or said country meeting lamp simultaneously with said base-beam lamp.

2,170,683
ELECTRIC INCANDESCENT LAMP
Ernst Friederich, Berlin-Charlottenburg, and Wilfried Meyer, Birkenwerder, near Berlin, Germany, assignors to General Electric Company, a corporation of New York
Application March 18, 1936, Serial No. 69,591
In Germany April 30, 1935
5 Claims. (Cl. 176—19)



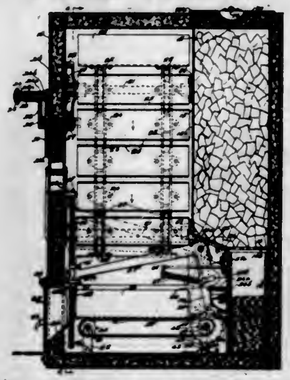
1. An electric incandescent lamp comprising an envelope, an incandescible body in said envelope comprising a rare oxidizable metallic oxide which is conductive at ordinary temperatures, and an atmosphere comprising a small amount of oxygen in said envelope, the amount of oxygen being sufficient to cause said incandescible body to retain its electronic conductivity at temperatures of the order of 2000° C. but insufficient to cause conversion of said rare metallic oxide to a higher form of non-conductive oxide.

2,170,684
TOP COWL VEHICLE ANTENNA
Herman Greenberg and Philip Morrison, Brooklyn, N. Y.
Application February 18, 1939, Serial No. 257,034
9 Claims. (Cl. 250—33)



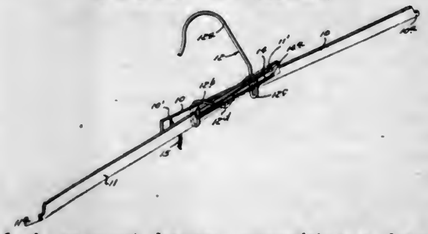
1. A top cowl vehicle antenna, comprising a metal tube extending through an opening in the cowl of a vehicle in the vicinity of the driver, a top insulation cover tube engaging over the top projecting portion of said metal tube and abutting the material of said cowl about said opening, a bottom insulation cover tube engaging over the bottom projecting portion of said metal tube and abutting the material of said cowl about said opening, nuts mounted on the top and bottom ends of said metal tube and clamping said insulation tubes in position, a telescopically extendable and retractable antenna engaging through said metal tube, a flexible case for the antenna in its retracted position and attached on the bottom of said metal tube, and a kick pad mounted on said vehicle and covering said flexible casing for protecting same.

2,170,685
BUTTER CUTTING MACHINE
Leonard Herber, Rochester, Minn.
Application August 28, 1937, Serial No. 161,451
5 Claims. (Cl. 31—30)



1. A butter cutting apparatus having in combination, a casing, vertically spaced shafts journaled in said casing, sprockets on said shafts, an endless carrier comprising chains having vertical runs running over said sprockets, a plurality of open sided compartments mounted on said carrier, means for intermittently moving said carrier, a receptacle within said casing having an open upper side and disposed below and at one side of said carrier and spaced therefrom and to which a piece of butter carried in one of said compartments may be discharged in each movement of said carrier as said compartment approaches its lowest position on said carrier, a member longitudinally aligned with said receptacle and engaging one end of said piece for moving it longitudinally in said receptacle, means for intermittently moving said member, a vertically reciprocable knife for cutting a slice from the other end of said piece after each movement of said member and piece and a discharge chute into which said slice falls upon being cut.

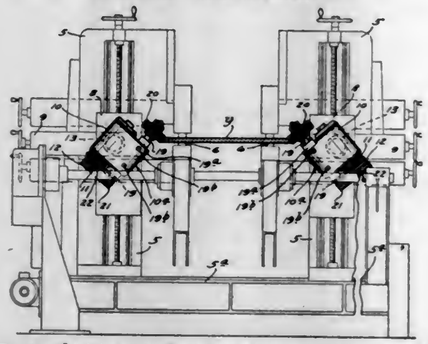
2,170,686
GARMENT HANGER
Carl A. Isaacson, St. Paul, Minn.
Application July 7, 1938, Serial No. 217,902
8 Claims. (Cl. 223—95)



1. A garment hanger comprising a hanger

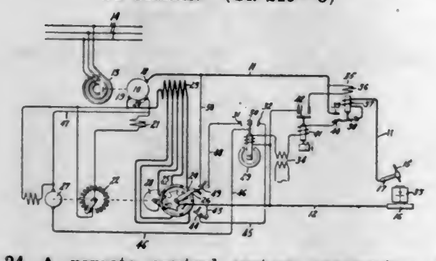
guide, a pair of overlapping bars slidably mounted in said guide, and elastic devices independently connecting said bars to said guide and exerting yielding strain tending to project said bars and to hold said guide centered in respect thereto, and which guide is made from a wire bent to form spaced guide loops and a hanger hook, said guide loops being deeper than said bars and permitting angular movements of the bars so that the hanger will support a garment of less width than the length of one of said bars.

2,170,687
TILTABLE CUTTER UNIT
Arthur B. Johnson, Minneapolis, Minn.
Application May 16, 1938, Serial No. 208,114
1 Claim. (Cl. 144—134)



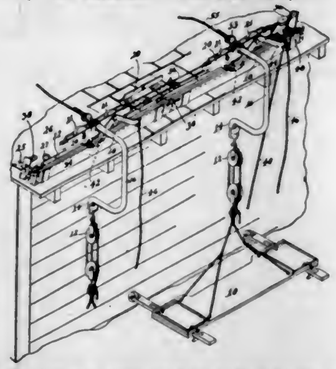
In a machine of the class described, means for feeding boards edgewise in a horizontal direction, in combination with an electric motor involving a casing and an armature therein, said casing being mounted for vertical, lateral and pivotal adjustments in a vertical plane that is approximately at a right angle to the line of feed of said boards, said casing having a depending portion of materially less diameter than the armature-enclosing body of said casing, a spindle mounted in said reduced portion with its axis approximately a parallel to the axis of the armature, said spindle at one projecting end having a cutting wheel or tool, and transmission means connecting the other end of said spindle to said armature.

2,170,688
REMOTE CONTROL SYSTEM
Benjamin W. Jones, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 16, 1934, Serial No. 748,503
24 Claims. (Cl. 219—8)



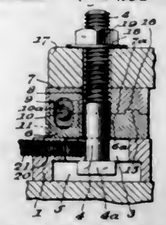
24. A remote control system comprising, in combination, a direct-current generator disposed to be connected to a load circuit, said generator having a main field winding, a rheostat connected to vary the exciting current in said field winding, a motor for actuating the rheostat, means for applying a control frequency to said load circuit, and means disposed to be responsive to the application of said control frequency to said load circuit for controlling the operation of the rheostat-actuating motor.

2,170,689
SCAFFOLDING SUSPENSION
Ernest L. Loomis, Haverhill, Mass.
Application January 31, 1938, Serial No. 187,880
17 Claims. (Cl. 304—17)



1. A device for temporary application to a roof for scaffold suspension, comprising the combination of a portable sleeper adapted to lie removably over, on and along the edge portion of the roof without aid of attaching means permanently incorporated in the building at the edge of the roof; said sleeper having along its upper face a track rigid thereon; a trolley with all of its supporting wheels in single line on that track; and, depending from the trolley, a stiff bow hanger from which the scaffold may be suspended.

2,170,690
ALIGNER
Guy Mafera, Revere, Mass.
Application November 8, 1938, Serial No. 239,453
4 Claims. (Cl. 254—104)



1. An aligner for adjusting a machine element relative to its supporting bed, said aligner including a base for attachment to said bed, said base having a countersunk slot, a pair of members having wedge surfaces disposed in mutual contact and having aligned slots, a bolt extending through said slots in said base and said members to permit said machine element to be attached to said base and to hold said members intermediate said base and said element, the head of said bolt being slidably retained within said base by its countersunk slot when said aligner is assembled, adjustable means coacting with each of said wedge members to effect desired vertical adjustments of said aligner, and adjustable means in contact with said bolt adjacent its head for bodily moving said bolt and said members relative to said base.

2,170,691
ANTISKID SHOE ATTACHMENT
Charles F. Mutter, Brooklyn, N. Y.
Application October 28, 1938, Serial No. 237,409
8 Claims. (Cl. 36—7.6)



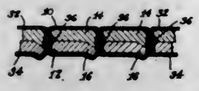
1. A non-skid shoe attachment, comprising a flat body for extending across the sole and heel of a shoe, means for mounting said body on said shoe, a plurality of blades attached obliquely on the bottom of said body and having serrated bottom edges for gripping ice, snow, etc., on the street, a plurality of bars mounted on said flat body for assisting in rigidly holding said blades, and fibre members mounted on the sides of said blades along said serrations.

2,170,692
ELECTRIC HEATER
Louis Navias, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application July 31, 1937, Serial No. 156,740
8 Claims. (Cl. 201—64)



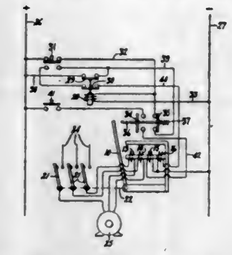
1. An electric heater comprising a metallic sheath, a resistance element encased by said sheath and between said resistance conductor and said sheath a layer of an insulating composition consisting of the comminuted solidified product of liquefaction of a mixture of magnesium oxide and beryllium oxide, the latter not exceeding substantially 10 per cent by weight of the whole.

2,170,693
SEAMED ARTICLE AND PROCESS FOR MAKING IT
Edward J. Ovington, Newton Highlands, Mass.
Application July 30, 1937, Serial No. 156,447
4 Claims. (Cl. 112—262)



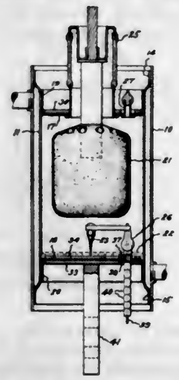
1. A process of sewing comprising the forming of holes, for the passing of thread through the material which is to be sewn, by the cutting of U-shaped flaps of that material of which the convexity of one flap faces the base of an adjacent flap, pressing the flaps out of their natural positions in that material, passing thread through the holes left by the bending out of the U-flaps, with the thread extending from one to another of said holes in direction from crest to crest of the flaps, and letting the material of the flaps return toward its original positions in the material.

2,170,694
ELECTROMAGNETIC SWITCH AND SYSTEM THEREFOR
Charles L. Perry, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application October 1, 1937, Serial No. 166,787
7 Claims. (Cl. 175—294)



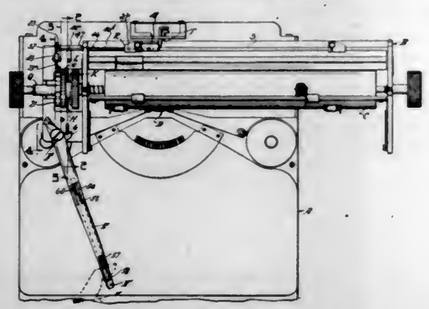
1. The combination with a switch provided with a circuit controlling member mounted for movement between two positions and biased to one of said positions, of an operating coil for moving said member to the other of said positions, a magnetic flux core extending axially of said coil having a portion formed of magnetic core iron and another portion formed of a material capable of retaining a high residual magnetic flux for holding said member in said position, and means operated by movement of said member for controlling the circuit of said operating coil.

2,170,695
DISCHARGE DEVICE
Otis W. Pike, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Application September 30, 1938, Serial No. 232,590
4 Claims. (Cl. 250—27.5)



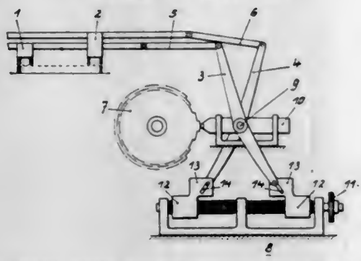
1. A discharge device including electrode structure, an evacuated envelope enclosing the electrode structure, a metallic header closing one end of the envelope and peripherally joined thereto, the said header having a thickness on the order of 100 mils or less so as to facilitate the creation of a hermetical joint with the envelope and a metallic reenforcing plate having a thickness greater than the header thickness and integrally joined to a surface of the header so as to prevent deformation thereof by pressure differences existing between the interior and the exterior of the envelope.

2,170,696
LINE SPACING AND PARAGRAPHING MECHANISM
Taylor C. Rhodes, St. Paul, Minn., assignor of one-half to Lennex S. Stenvig, Robbinsdale, Minn.
Application March 31, 1938, Serial No. 199,133
16 Claims. (Cl. 197—63)



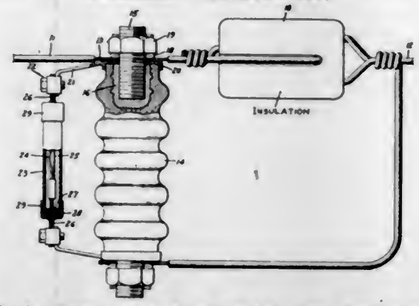
5. A machine for printing legible characters in lines, the same comprising apparatus operating normally to regularly space adjacent lines and to maintain the starting ends of the lines in alignment, grouping mechanism cooperatively arranged and effective to increase the spacing between lines at pre-selected intervals, and manually operated mechanism effective to indent the starting end of any selected line to a pre-determined distance, the latter mechanism cooperating with the grouping mechanism and controlling the sequence of operation thereof with respect to the indented lines.

2,170,697
WARP LOOM
Richard Richter, Oberlungwitz, Germany
Application March 18, 1938, Serial No. 196,605
In Germany March 22, 1937
7 Claims. (Cl. 66—86)



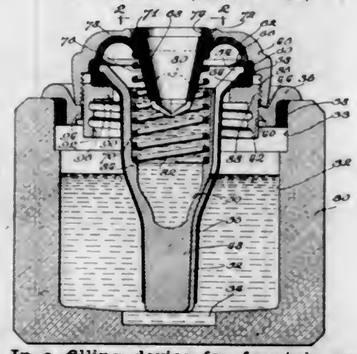
1. A warp loom for producing fashioned goods by means of a warp composed of a plurality of thread groups guided on different planes, the outer groups being adjustable to vary the width of the fabric, in which the lapping machines guiding these groups are laterally adjusted by double levers which are carried by a bearing and which in addition to the control of the usual lap adjusting means are subjected to that of a second adjusting device, characterized in that the double levers of every two lapping machines carrying out the same inward or outward motion, though in different directions, for the purpose of reducing or enlarging the width of the fabric are controlled by a single correspondingly operating adjusting device for narrowing or widening motions and by a single lap adjusting device.

2,170,698
FUSE SUPPORT
Sidney R. Smith, Jr., Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application January 11, 1939, Serial No. 250,372
3 Claims. (Cl. 200—133)



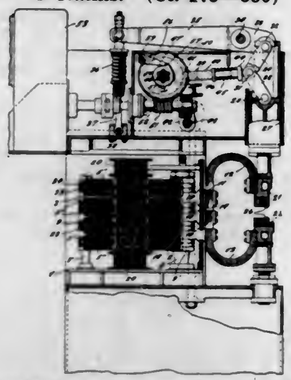
1. A fuse support adapted for suspension mounting on a line conductor or like supporting means, comprising an elongated insulator, a terminal element affixed to one end of said insulator and having means for quick detachable clamping attachment to a supporting conductor, a second terminal element affixed to the other end of the insulator and having means for quick detachable clamping attachment to a second conductor, a pair of conducting arms conductively associated respectively with said terminal elements and projecting laterally from said insulator in spaced relationship, and clamps carried by the free ends of said arms for quick detachable connection respectively with terminals of a fuse device to support such fuse device between said arms.

2,170,699
FOUNTAIN PEN FILLING DEVICE
Owen R. Terry, Detroit, Mich.
Application February 12, 1936, Serial No. 63,648
41 Claims. (Cl. 226—63)



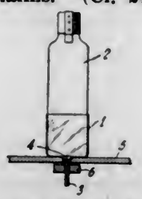
36. In a filling device for fountain pens, the combination of an ink container, a well therein formed to receive the nib of a fountain pen, means for conveying ink from said container to said well, an element movable with respect to said well and having an apertured seat for engagement with the end of the barrel section of a fountain pen, said element being in substantially air-tight connection with said well and operable upon movement in a direction away from said well to cause a partial vacuum in said well, thereby to exhaust the contents of the reservoir of a fountain pen pressed against said seat.

2,170,700
WELDING MACHINE TRANSFORMER
Edmund J. von Henke, Chicago, Ill., assignor to American Electric Fusion Corporation, Chicago, Ill., a corporation of Illinois
Application September 15, 1936, Serial No. 100,838
5 Claims. (Cl. 175—356)



2. A transformer comprising a plurality of posts, a plurality of sections provided with holes adapted to receive said posts, whereby said sections may be assembled on said posts, each section comprising a secondary in the form of a hollow interrupted ring with spaced ends and a primary within the hollow ring, said spaced ends forming a continuous gap and two of said posts being disposed on opposite sides of said gap, and conductor members disposed on said two posts between sections and in electrical contact therewith.

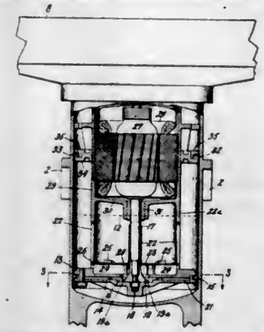
2,170,701
DISPLAY
Roger N. Wallach, Briarcliff Manor, N. Y., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
Application March 11, 1937, Serial No. 130,320
2 Claims. (Cl. 248—1)



1. A display device of the class described, comprising a self-sustaining support having an opening therein and an article of merchandise having a portion of a tube of shrinkable material shrunk thereon and a portion extending therefrom, the extending portion of the tube being disposed within the opening and fastened to the support to hold the article in display position.

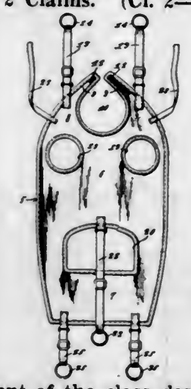
2,170,702
HYDRAULIC OPERATOR
George W. Wardwell, Jr., Nichols, Conn., assignor to General Electric Company, a corporation of New York
Application September 26, 1936, Serial No. 102,728
7 Claims. (Cl. 60—52)

1. In combination, a liquid containing cylinder, a piston having a head immersed in the liquid, means for forcing liquid from the upper to the lower side of the piston head for forcing the piston upward in the cylinder, sealing means for preventing leakage of the liquid including a piston ring engaging the cylinder walls above the liquid level, a groove in the piston in which the ring is axially slidable whereby it engages the lower and upper sides of the groove respectively during upward and downward movement of the piston, and



a vent opening to the atmosphere arranged to be sealed when said ring engages the lower side of said groove whereby a partial vacuum is created between the ring and the liquid during upward movement of the piston, said vent being opened when the ring moves away from the lower side of the groove whereby the vent is opened during downward movement of the piston.

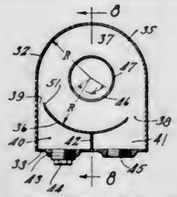
2,170,703
GARMENT
Carl F. Waxman and Rudolf Pogoda, San Francisco, Calif.
Application November 25, 1938, Serial No. 242,407
2 Claims. (Cl. 2—49)



1. A garment of the class described, comprising, a body formed with a bib section terminating at one end in an angular disposed seat section and at the opposite end in a neck section, said neck section fashioned with arcuate shaped shoulder flaps defining a neck opening therebetween and having ends adapted to button about the neck of a child, said ends having adjustable straps provided with fastening elements for attachment to the vertical side rails of a chair, said bib section having spaced arm openings for receiving therethrough the arms of said child and provided with a leg aperture adjacent the jointure with said seat section whereby to dispose said seat section under said child and on the seat of said chair, a strap connected to said bib section adjacent said

aperture and depending downwardly therefrom and adapted to interpose the legs of an infant and formed with a fastening element adapted to attach said strap to the horizontal front rung of said chair whereby to preclude forward sliding movement of said child from under said bib section, said seat section equipped with a pair of adjustable straps having depending ends provided with fastening elements for attachment to the horizontal rear rung of a chair whereby to maintain said seat section under said child and overlying the seat of said chair.

2,170,704
SPARK ARRESTER
Roland B. Bourne, West Hartford, Conn., assignor to The Maxim Silencer Company, Hartford, Conn., a corporation of Connecticut
Application August 3, 1937, Serial No. 157,171
3 Claims. (Cl. 183—93)



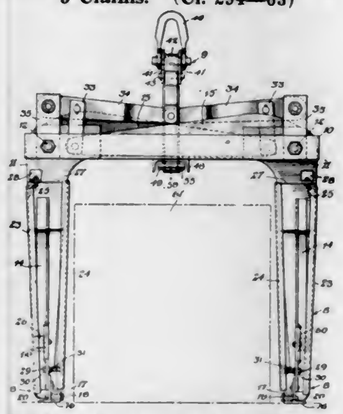
1. A dirt separator for exhaust gases and the like comprising a U-shaped member, a flat member closing the open end of the U, end closures to form a U-shaped enclosure, an interiorly disposed vane member so proportioned as to form an inlet compartment, a cylindrical whirl chamber and a dirt collecting compartment, said inlet compartment having an inlet pipe connection and a slot-like tangential opening therefrom into said whirl chamber, said dirt collecting compartment having a slot-like tangential opening thereinto from said whirl chamber and means, externally disposed, for removing collected dirt therefrom and a coaxially disposed outlet conduit extending from an opening in one of said end closures to the other, said conduit having a rectangular opening in one side thereof and extending along the length of said conduit between points appreciably removed from said end closures.

2,170,705
SIPHON FOR AERATED LIQUIDS
William Brewer, Upper Edmonton, London, England, assignor to Sparklets Limited, Westminster, England, a British company
Application July 3, 1937, Serial No. 151,920
In Great Britain May 14, 1937
1 Claim. (Cl. 261—121)



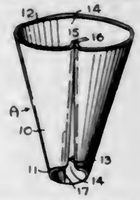
A dip tube for a siphon for aerated liquid in which carbon dioxide under pressure is introduced into a liquid to be aerated through said dip tube and aerated liquid is adapted to be discharged through said dip tube, said dip tube being provided at its lower end with a baffle comprising a sleeve having notches forming spaced projections at the lower end of said sleeve, a baffle plate supported by said projections and closing the lower end of said dip tube, said notches providing radially directed openings allowing free passage of liquid upon operation of the siphon.

2,170,706
BRICK GRAB
John P. Callaghan, Newark, N. J., assignor to Paul Gabriel Corporation, Harrison, N. J., a corporation of New Jersey
Application January 26, 1938, Serial No. 186,971
5 Claims. (Cl. 294—63)



4. A brick grab comprising a frame, gripping jaws comprising a pair of confronting bell cranks pivoted to opposite sides of the frame, said bell cranks having downwardly depending gripping arms and horizontal operating arms extending substantially across the frame, a lifting head, and means connecting the lifting head and bell cranks whereby shifting of the head towards the frame opens the jaws and shifting of the head away from the frame closes the jaws, said means comprising a pair of brackets pivotally mounted on opposite sides of the frame, a pair of levers pivoted to the brackets and extending to adjacent the center of the frame, a link pivotally connected between the inner ends of the levers and the lifting head, and links connected between the ends of the operating arms of the bell cranks and the said levers adjacent the points of connection with the brackets.

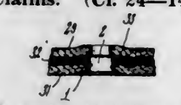
2,170,707
NECKTIE FORM
Charles Augustus Chapel, El Reno, Okla.
Application April 30, 1938, Serial No. 205,348
3 Claims. (Cl. 2—153)



1. In a knot former for neckties, a hollow body

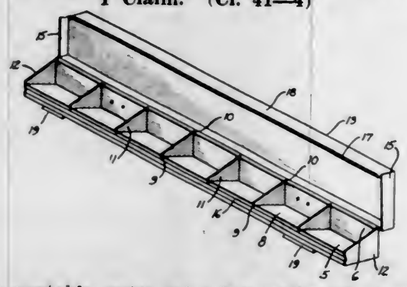
portion of spring material, having an upper elliptical mouth at one end and a lower and smaller elliptical mouth at the opposite end, the longitudinal axes of said mouths being normal to each other, said body portion being provided with an inverted V-shaped slot extending from mouth to mouth, the edges of said slot diverging from said upper mouth toward said lower mouth.

2,170,708
EYELET
Joseph Cordeiro, New Bedford, Mass., assignor to Atlas Tack Corporation, Fairhaven, Mass., a corporation of New York
Application April 29, 1937, Serial No. 139,703
3 Claims. (Cl. 24—141)



1. An applied eyelet structure which consists of a single thickness barrel extending through sheet material to which the eyelet is applied, and terminating at one end in an outwardly directed continuous flange engaging one face of said material and at the other end in an outwardly directed double flange formed of two parallel integral layers connected by a fold around their outer margins, the terminal layer lying on the inner face of said double flange.

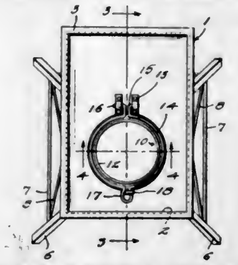
2,170,709
PORTABLE WATER COLOR BOX
Leo Cutrow, Los Angeles, Calif.
Application May 9, 1938, Serial No. 206,897
1 Claim. (Cl. 41—4)



A portable water color box as described, comprising interfitting base and side members, having a plurality of grooves, said grooves having a plurality of separating walls therein, said base having a downwardly inclined upper surface adapted to form pockets with said side member and said separating walls, and a spring clip adapted to secure said box to a table top.

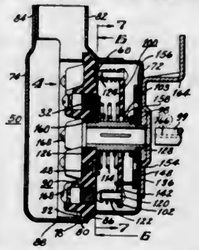
2,170,710
SEED SACKER
Clifton H. Dalzell, Paris, Ky.
Application May 26, 1938, Serial No. 210,276
2 Claims. (Cl. 248—101)

1. A seed sacker of the character described, comprising a platform, a supporting structure for the platform, said platform having an opening therethrough for the reception of the mouth of a sack, an upstanding annular ring secured to the platform around and concentric with the opening over which ring the mouth of a sack may be folded, a clamp ring adapted to encircle the first ring, means for pivotally securing the clamp ring to the platform whereby the ring may be swung into or out of operative relation with the first ring, said clamp ring having an elongated loop formed integral therewith opposite said pivotal means and adapted to be brought into close proximity to the platform when the



clamp ring is in bag holding relation with said flange, an oscillatable shaft extending upwardly through the platform in position to extend through said loop, and a lock finger carried by said oscillatable shaft for engagement over and in contact with the top edge of said loop to maintain the lock ring against movement.

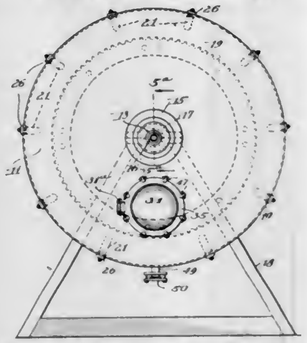
2,170,711
SELECTOR SWITCH
William Correll Edwards and Scott R. Conwell, Anderson, Ind., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Original application August 16, 1933, Serial No. 685,500, now Patent No. 2,059,780, dated November 3, 1936. Divided and this application December 24, 1935, Serial No. 56,018
4 Claims. (Cl. 200—11)



1. A lighting switch cmoprising in combination, a casing member, a switch back closing the casing member and providing a plurality of fixed contacts, a movable contact assembly within the casing member for cooperation with the fixed contacts, a switch actuator, and means journalled in the casing member and the switch back coupling the actuator to the movable contact assembly, said means comprising, a tubular shaft, a perforated driving plate having a plurality of driving lugs and having a sliding fit over the tubular shaft for rotation and in driven relation with said tubular shaft, means provided by the movable contact assembly for receiving the ends of the driving lugs, the contact assembly and the driving plate being relatively spaced apart by said driving lugs, a detent plate disposed in the space between the contact assembly and the driving plate, said detent plate adapted for axial movement along the tubular shaft and providing detents extending through the perforations of the driving plate for cooperation with recesses in the bottom of the switch casing, and means surrounding the shaft and disposed between the back and

the detent plate and through the contact assembly for urging the detent plate into a ratcheting relation with the switch casing.

2,170,712
DYE WHEEL
Melville J. Goodwin, Needham, Mass., assignor to The Pfaudler Co., Rochester, N. Y., a corporation of New York
Application September 9, 1937, Serial No. 163,088
2 Claims. (Cl. 68—144)

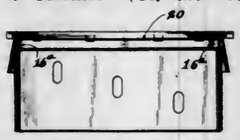


1. A dye wheel comprising a rotary, glass-lined, metal drum having in its walls a series of openings, a series of bolts extending through said openings, glass-coated, hollow metal stirring pins on the ends of said bolts inside said drum, means for sealing said openings around said bolts, and securing means on the ends of said bolts outside said drum for rigidly securing said bolts and pins in position on said walls.

2,170,713
STOCK FOOD AND METHOD OF PRODUCING THE SAME
Hans Fattinger, Stadl, at St. Ruprecht on the Raab, Styria, Austria
No Drawing. Application August 10, 1937, Serial No. 158,314. In Austria November 12, 1936
13 Claims. (Cl. 99—6)

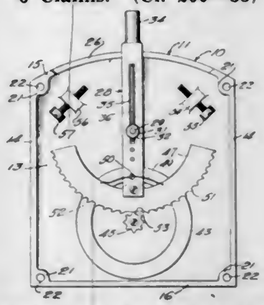
1. The method for the production of stock feed comprising acting upon a base feeding material with an emulsion that is formed by the admixture of the carbonation sediment from sugar manufacture and one of the group consisting of molasses and syrup from beet and cane sugar manufacture and wood sugar.

2,170,714
REINFORCED RECEPTACLE
George K. S. Ferguson, Baltimore, Md., assignor to The Baltimore Paper Box Company, Baltimore, Md., a corporation of Maryland
Application August 25, 1937, Serial No. 160,905
2 Claims. (Cl. 229—6)



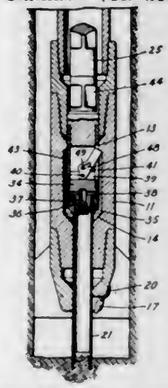
1. An over-pack receptacle for fruit, vegetables or the like comprising a relatively deep and stiff fiberboard body having opposite plural thickness walls, a cover for the body including a top, and reinforcing pieces having greater compressive strength than fiberboard extending from the bottom of the body through the plural thickness walls to a position above the upper edge of the body and supporting the top of the cover in an elevated position relatively to the upper edge of the body.

2,170,715
SWITCH AND OPERATOR THEREFOR
Charles R. Grantham, Washington, D. C.
Application August 22, 1938, Serial No. 226,200
6 Claims. (Cl. 200—33)



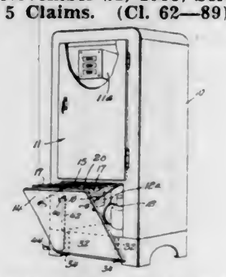
2. In combination a switch and an operator therefor comprising a closed housing, a set of contacts carried by a wall of said housing, said set including a pair of selectable endwise aligned spaced short contacts, and a long contact spaced from and common to the short contacts and for coaction with a selected short contact, a normally inactive rock lever in said housing, means rockably supporting said lever in said housing, a circuit closure in the form of a wiper for travelling against the contacts of said set to bridge a selected short contact and said long contact, means securing said wiper to said lever, yieldable means constantly urging said lever to inactive position, an arcuate toothed member rockably carried by said lever, a fly wheel, means rotatably mounting said fly wheel in said housing, a pinion fixed to said fly wheel and engageable with said toothed member whereby to retard the swinging movement of said lever, and means carried by said housing disposed on opposite sides of said lever to limit the swinging movement of said lever.

2,170,716
METHOD AND APPARATUS FOR TAKING SAMPLE CORES
Pattillo Higgins, Jr., Mont Belvieu, Tex.
Application January 24, 1938, Serial No. 186,729
5 Claims. (Cl. 255—1)



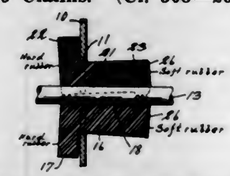
1. Core taking apparatus comprising in combination, a drill stem including a drill collar and bit, a core barrel movable axially therethrough to project ahead of the bit, cooperating stop means on said barrel and drill collar limiting projecting movement of said barrel, an internal abutment in said drill collar, a detent carried by said barrel, and means operable by functioning of said stop means to project said detent into the path of descending movement of said drill collar abutment whereby said barrel is moved axially by and with the drill collar and stem to take a core, by a reciprocatory motion of the drill stem.

2,170,717
REFRIGERATOR CABINET
Matthew R. Hull, Connersville, Ind., assignor, by mesne assignments, to Reconstruction Finance Corporation, Chicago, Ill., a corporation of the United States
Application November 21, 1935, Serial No. 50,952
5 Claims. (Cl. 62—89)



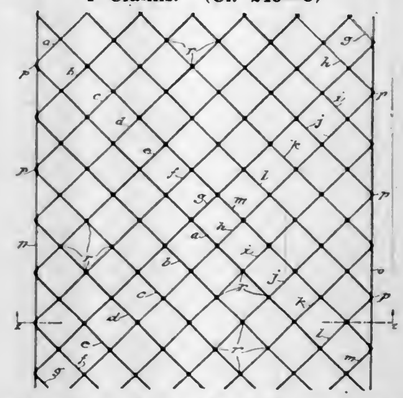
1. A refrigerator cabinet having a food storage compartment and an apparatus compartment beneath the food storage compartment with doors affording access to said compartments, a combined support and transfer shelf in the apparatus compartment movable out of the compartment to a position to support articles to be inserted into and articles to be removed from the food storage compartment, and a connection between the door of the apparatus compartment and said transfer shelf so that the shelf is brought into and out of operative position by the opening and closing of the door of the apparatus compartment.

2,170,718
ROD-SUPPORTING BUSHING
Loyal E. Humphries, Balmorhea, Tex.
Application February 3, 1938, Serial No. 188,565
6 Claims. (Cl. 308—26)



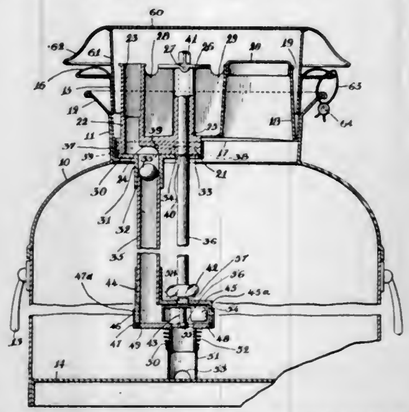
4. A bushing of the character described, formed in two sections, each section being semi-cylindrical in cross-section, each section being formed with a longitudinally extending groove and with a flange at the forward end of the section, the walls of the groove at the rear end of each section being formed with lugs, the lugs constituting fulcrums upon which the sections may rock to expand the sections, the rear ends of the lugs being rounded the forward portion of each section being of hard rubber and the rear portion of the section being formed of soft rubber.

2,170,719
WIRE MESH FABRIC FOR WIRE GLASS
Robert J. A. Ingouf, Kingsport, Tenn., assignor to Fidelity Machine Company, Wilmington, Del., a corporation of Delaware
Original application June 19, 1936, Serial No. 86,184, now Patent No. 2,160,715, dated May 30, 1939. Divided and this application June 7, 1937, Serial No. 146,905
4 Claims. (Cl. 245—8)



1. An article of manufacture consisting of a flat braided wire mesh fabric comprising a multiplicity of continuous body wires extending diagonally across the fabric in opposite directions continuous and in laterally spaced intersecting and interlaced relation to each other each diagonal wire extending over two and under two intersecting diagonal wires alternately across the fabric.

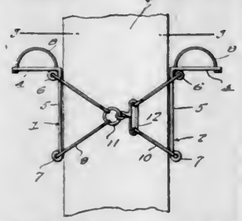
2,170,720
MILK CAN CONSTRUCTION
Theodore Kestenbaum, New York, N. Y.
Application December 28, 1937, Serial No. 182,142
9 Claims. (Cl. 221—67)



1. In a can construction including a body member, a removable cover engageable therewith, a feeding channel, a discharge tube and a shaft bearing all carried by the said cover, a pump mechanism including a flow tube within the body member and having a valve therein, the flow tube being adapted to communicate with the said discharge tube and a rotatable shaft adapted to penetrate the said shaft bearing, means at the

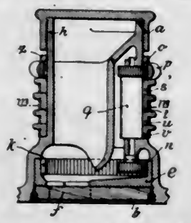
undersurface of the removable cover to detachably engage said flow tube and shaft to said cover.

2,170,721
SCALING DEVICE
Russell C. Luckins, Philadelphia, Pa.
Application October 10, 1938, Serial No. 234,281
2 Claims. (Cl. 227—25)



1. A pole scaling device comprising a pair of climbing irons adapted to be disposed upon opposite sides of the pole, respectively, and each including an upper end stirrup and a pair of downwardly divergent rod-like legs having upper and lower eyelet-like ends, respectively, and means to connect said irons together comprising a pair of ropes each loosely extending through the lower eyelet ends of one iron and the upper eyelet ends of the other iron and across the opposite sides of the pole in diagonal relation each with respect to the other, the legs of said irons being semi-flexible to bend under pull exerted thereon by said pairs of ropes and grip the pole.

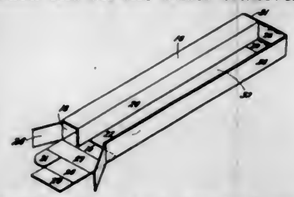
2,170,722
FILLING NOZZLE FOR FUEL TANKS
Walter Mainzer, Stuttgart, Germany
Application July 25, 1938, Serial No. 221,249
In Germany July 30, 1937
10 Claims. (Cl. 70—179)



1. A filling nozzle for fuel tanks, comprising a movable gate valve disposed at the outflow to the fuel tank, a rotatable drum having locking edges, and positively connected to the said gate valve, a plurality of selective rings on the said filling nozzle through which the fuel passes on its way to the outflow and means on the said selective rings for releasing the locking edges of the drum only when the selective rings are in a definite position.

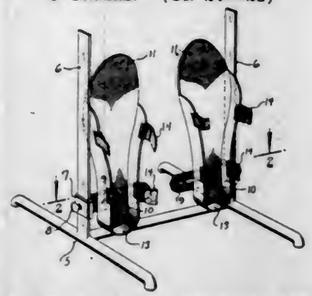
2,170,723
COLLAPSIBLE DISPLAY CONTAINER
Frank A. Marx, Cincinnati, Ohio, assignor to The Richardson Taylor-Globe Corporation, Cincinnati, Ohio, a corporation of Ohio
Application June 5, 1936, Serial No. 83,710
6 Claims. (Cl. 229—34)

1. A one-piece container comprising a bottom, a pair of oppositely disposed side walls, the walls at each side comprising an outer and an inner member, a flange attached to the downwardly-turned edge of each of said inner wall members, said flanges being adapted to be disposed one over the other and flat against said bottom with the outer edge of each abutting the opposite inner wall member, the ends of said flanges extending short of the ends of said bottom and the ends of the overlying flange extending slightly beyond the ends of the subjacent flange, two flap sections at each end of said bottom and adapted to be folded one on the other transversely rela-



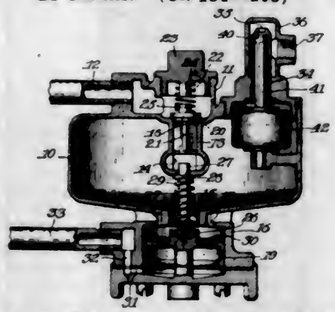
tive to said bottom and disposed vertically to form end walls, and an ear at the lower edge of the inner flap section at each end of said bottom and adapted to be placed flat against said bottom with its end edge abutting the adjacent end edge of said subjacent flange and lying beneath the end of said overlying flange whereby the end walls are held firmly in position.

2,170,724
MORTICIAN'S APPLIANCE
Robert E. Marquardt, Oshkosh, Wis.
Application May 10, 1938, Serial No. 207,054
6 Claims. (Cl. 27—23)



1. In a device of the character described: a supporting pedestal having spaced rigid uprights integral therewith; slipper-like foot supports, each adapted to receive and support the foot of a corpse; and means for readily adjustably mounting one of said foot supports on each of the uprights.

2,170,725
OIL CONTROLLING MECHANISM
Harry R. Mason, Chicago, Ill.
Application July 9, 1938, Serial No. 218,453
14 Claims. (Cl. 184—103)



8. In an engine, the combination of its crank case, means operated by the engine for forcing oil in the crank case to bearings of the engine and comprising an oil pump, a source of oil supply for said crank case, and means operated by the pressure generated by said pump to interrupt communication between said supply and crank case during the operation of the engine.

2,170,726
DAMPER STRUCTURE
Thomas A. Misbach and Stratton O. Hammon, Louisville, Ky.
Application May 17, 1938, Serial No. 208,454
4 Claims. (Cl. 126—288)



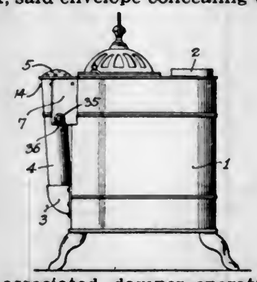
1. In a damper structure, a mounting formed of a flat body part of frame-like form and a vertical flange integral with the upper face of and corresponding in contour to that of the frame, a damper member arranged within said flange and formed with an overbalancing portion movable in opposite directions and with its movement in one direction being automatic, said member being provided with oppositely extending pivots loosely mounted in spaced aligned portions of said flange, a pull element for and connected to said member, said mounting and member having coacting portions for limiting the extent of the automatic movement of said overbalancing portion, said pull element providing for manually moving said overbalancing portion in the other direction of its movement, said mounting being of square contour, said member corresponding in contour to that of the mounting, and said pivots being disposed in eccentric relation with respect to said member.

2,170,727
PRODUCTION OF SPINDLE BLADES
Harry Mitchell, Whitinsville, Mass., assignor to Whitin Machine Works, Whitinsville, Mass., a corporation of Massachusetts
No Drawing. Application July 17, 1937, Serial No. 154,205
1 Claim. (Cl. 29—170)

A spindle blade comprising a bar of air-hardened molybdenum alloy steel of a substantially uniform initial hardness, said spindle blade being formed from said bar entirely by grinding operations, with the initial hardness of the steel substantially maintained during the production of said blade, and said steel bar and spindle blade comprising approximately .50% carbon, .50% manganese, 1% chromium, 1.50% nickel and .50% molybdenum, said steel bar being initially air-hardened to approximately 60 on the Rockwell *C* scale.

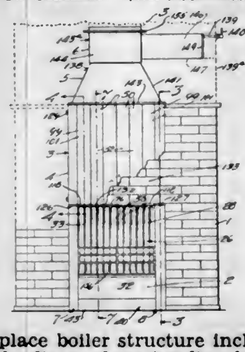
2,170,728
AUTOMATIC DRAFT REGULATOR
Charles Delevan Montague, Fredericksburg, Va., assignor to Automatic Draft and Stove Co., Inc., Lynchburg, Va.
Application August 16, 1937, Serial No. 159,420
4 Claims. (Cl. 236—96)

1. In combination with a wood heater of the type described, having a draft stack, a pivotally mounted damper in the upper end of the stack and associated damper operating mechanism adjacent thereto, a thermostat mounted exteriorly of the stack and connected to the damper operating mechanism, and an envelope partly surrounding and engaging the outer surface of the draft stack, said envelope concealing the thermo-



stat and associated damper-operating mechanism and adapted to contain a pan of water also contained in and supported by said envelope.

2,170,729
FIREPLACE BOILER STRUCTURE
Charles Walter Perry, Montgomery, Ala.
Application September 23, 1938, Serial No. 231,429
15 Claims. (Cl. 126—132)

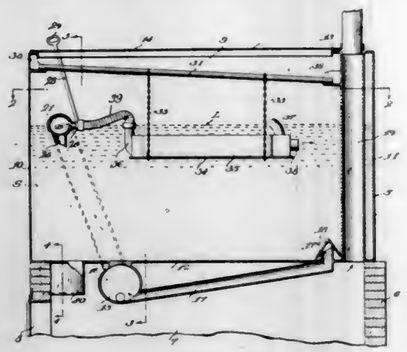


1. A fireplace boiler structure including a pair of oppositely disposed upstanding hollow spaced parallel side units providing water spaces and the side walls of a fire box for receiving a heat generating means, a hollow lower intermediate unit arranged between the lower portions of said side units and providing the back wall of the fire box and a water space, a hollow front unit arranged between said side units forwardly of and of less height than said intermediate unit and providing a water space, upper sidewise abutting hollow units arranged between the upper portions of said side units and providing the top wall of the fire box and water spaces, certain of said upper units being disposed in forward relation with respect to said lower unit, certain of said upper units being mounted upon the top of said lower unit, the said side and upper units being formed with coacting parts to provide an outlet flue opening through the top wall of the fire box, means for establishing communication between the upper units and between the upper units and the side units, means for establishing communication between the side units and said lower unit and between the side units and said front unit, and means for connecting the units together.

2,170,730
APPARATUS FOR DETERGING RADIATORS
George J. Rodieck, Tyler, Tex.
Application September 6, 1938, Serial No. 228,718
2 Claims. (Cl. 141—1)

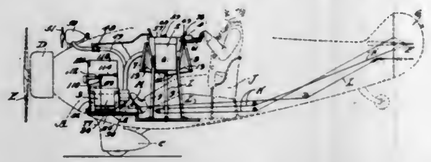
1. An apparatus of the class described, com-

prising, a tank, a rotatable valve unit within said tank, means having communication with said tank and unit for heating and circulating a solution through said tank and unit, a support carried by said tank and adapted to support a radiator within the solution contained within the tank, said valve unit provided with an outlet port adapted for communication with said ra-



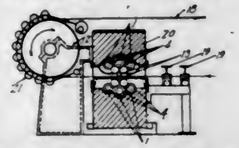
diator to effect circulation of the solution through the latter from said means, said valve unit formed with discharge ports communicating with the interior of the tank for circulating said solution from said means about said radiator and through said tank, and means connected to said unit for controlling said ports to selectively circulate said solution through and about said radiator.

2,170,731
DIRECTIONAL CONTROL AND STABILIZING APPARATUS
John T. Rydberg, Harrison, N. J.
Application December 8, 1936, Serial No. 114,876
14 Claims. (Cl. 244—78)



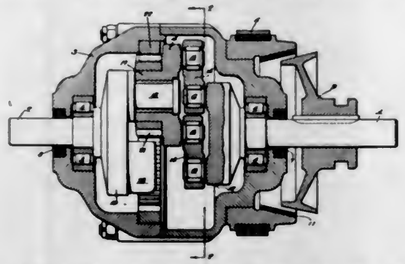
1. In drift-compensating course-control apparatus, in combination, a vessel adapted to travel through a supporting medium, steering means for controlling the direction of movement of the vessel in the supporting medium, adjustable automatic means operatively connected with said steering means for controlling said steering means to maintain the direction of movement of the vessel through the supporting medium constant, and control means for varying the operation of the automatic means comprising a movable member pivoted at its front end to the front end of the vessel and projecting rearwardly and exposed to lateral side pressures of the supporting medium on the front portion of the vessel tending to deviate the same from its course and connected with the automatic steering means aforesaid to adjust the same in proportion to the lateral pressures on said control means to maintain the movement of the vessel in a fixed direction irrespective of lateral pressures of the supporting medium on the vessel.

2,170,732
ROLLING MILL
Tadeusz Sendzimir, Katowice, Poland, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio
Application August 30, 1934, Serial No. 742,075
20 Claims. (Cl. 80—38)



1. In a rolling mill, a frame having at least two vertical columns and horizontal cross members forming rigidly connected beams therebetween, said entire frame being formed of one piece of metal whereby the bending resistance of the columns and the increased rigidity of the beams helps to decrease the deflection of the working rolls produced by roll pressure, small thickness working rolls in said frame, shafts mounted in said frame backing up elements for said working rolls carried on said shafts, and members directly supported on said beams engaging said shafts at a plurality of points across said beams, said beams being formed with channels across them, said channels having a section of an arc of a circle, and said members having curved surfaces engaging said channels but eccentrically to the shaft supports therein, and means for adjusting their position in said channels for the purpose described.

2,170,733
MECHANICAL MOVEMENT
John S. Sharpe, Haverford, Pa.
Application August 10, 1937, Serial No. 158,408
32 Claims. (Cl. 74—298)

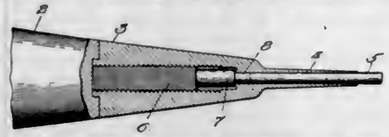


1. A mechanical movement comprising coaxial shafts; a planetary assembly comprising an orbital member concentric with the shaft axis, and a coacting planetary member journaled on one of said shafts, and constant-torque coupling means for connecting the other of the shafts to the planetary member for joint rotation of said shaft and member about their respective axes in the same direction and at the same speed, said coupling means being flexible to compensate the misalignment of said axes and to permit the orbital movement of the planetary member.

2,170,734
TIP FOR DRAFTSMEN'S MECHANICAL PENCILS
Herbert F. Smenner, Muncie, Ind.
Application May 1, 1939, Serial No. 271,112
3 Claims. (Cl. 120—9)

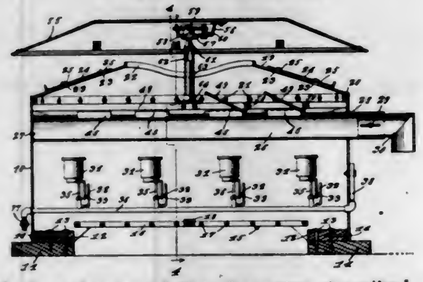
1. The combination with a mechanical pencil utilizing leads of a diameter less than four one-

hundredths of an inch, of a tip terminating in a long, slender, almost cylindrical section whose



free end has an external diameter about one one-hundredth of an inch greater than the diameter of a lead.

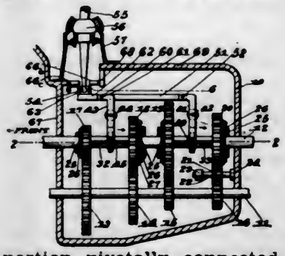
2,170,735
OIL-BURNING AIR HEATER
Robert L. Spikes, Farmville, N. C., assignor of one-third to Frank M. Davis, Jr., and one-third to Henry Johnson, both of Farmville, N. C.
Application February 24, 1938, Serial No. 192,403
5 Claims. (Cl. 126—58)



5. In a heater of the character described, an open bottomed, horizontally elongated, casing supported at its opposite ends in raised position, a horizontal series of fuel burner elements arranged longitudinally and medially within the lower portion of the casing, means for individually regulating and operating said burner elements, a horizontal air duct extending longitudinally within the casing and above said burner elements whereby to be heated by the latter, said air duct being closed at one end within the casing, its opposite end extending outside the casing and being provided with a valved inlet, said duct being provided with a longitudinal series of elongated outlet openings in its upper side within the casing, certain of said outlet openings nearer the inlet end of the duct being provided with tiltable closure members for regulating the volume of output of heated air from the duct and directing the flow of the discharged air through these particular openings towards the other openings not so provided, said casing having a median longitudinal passageway between a pair of ledges extending longitudinally of the casing walls at opposite sides of and in a plane above said air duct, said casing having a truncated tapered cover provided with a longitudinally elongated central opening and a series of smaller valve-controlled openings adjacent the opposite ends of said central opening, and an adjustable hood element located above the casing cover and extending over said openings thereof whereby to variably direct the outflow of heated air laterally from said casing.

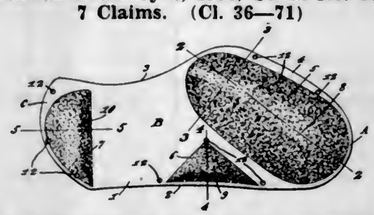
2,170,736
GEAR-SHIFTING MECHANISM
Charles Stegmeier, Grimes, Calif.
Application February 21, 1938, Serial No. 191,821
1 Claim. (Cl. 74—473)

In a transmission provided with a drive shaft having a plurality of gears fixed thereon and a countershaft having a plurality of gears loosely mounted thereon meshing with the adjacently disposed gears on the drive shaft and keyways between said gears, an operating means for connecting the loosely mounted gears to the countershaft comprising a pair of slidably mounted rails, means for reciprocating the rails, a pair of yokes pivotally mounted intermediate the ends, each yoke being associated with a rail and having an



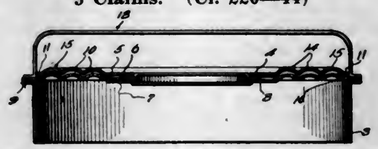
angular portion pivotally connected with said associated rail so that when a rail is reciprocated the connected yoke will be rocked, a key slidably mounted on each keyway and provided with a transverse notch, a pair of rings on the countershaft, each ring being received in a slot in a key and located beneath a yoke, the gears on the countershaft having a notch adapted to receive the adjacently disposed end of a key and means connecting each ring with its associated yoke.

2,170,737
ARCH SUPPORT
Harold F. Swant, Council Bluffs, Iowa
Application February 2, 1938, Serial No. 188,363
7 Claims. (Cl. 36—71)



1. A foot supporter comprising a backing strip shaped to provide heel and instep portions, a supporting and balancing pad secured on the strip and substantially covering the heel portion and a part of the instep portion and having a ridge to direct the body weight of a person onto the outside of the person's foot, a supporting pad under the metatarsal section of the foot, and a balancing and supporting pad under the cuboid section of the foot, but the instep of the foot being substantially directly unsupported.

2,170,738
VENTILATING LID COVER
Lloyd Orlando Thompson, Los Angeles, Calif.
Application August 3, 1938, Serial No. 222,894
5 Claims. (Cl. 220—44)



4. In a cover device of the class described, a

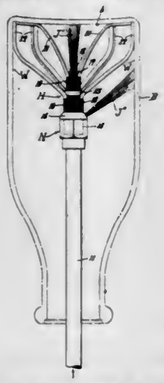
circular corrugated lid having air vents around its outer portion and a protruding center portion, a main circular corrugated lid having air vents around its central portion and a center hole, said protruding center portion fitting snugly into said center hole, holding said lids detachably together.

2,170,739
JOINT OR CONNECTION
George A. Tinnerman, Rocky River, Ohio, assignor to Albert H. Tinnerman, Cleveland, Ohio
Application April 29, 1938, Serial No. 205,090
12 Claims. (Cl. 189—36)



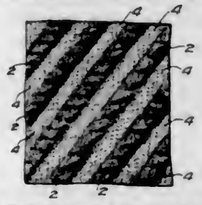
11. A joint or connection comprising, in combination, a sheet metal part provided with an opening and an overlying apertured lug retaining element extending free and projecting in spaced relation to one side thereof, a one-piece, sheet metal locking plate comprising an arm provided with integral thread engaging means and adapted for bearing engagement with a face of said apertured lug element, said locking plate including substantial clip means applied to a free end of said lug element to engage the same on its opposite face and thereby retain said locking plate in applied position entirely to said one side of the sheet metal part with said integral thread engaging means in substantial registration with the aperture in said lug element, and a member connected to said sheet metal part by a fastening passing through said opening therein and the aperture in said lug element to securing engagement with said integral thread engaging means of the locking plate.

2,170,740
BOTTLE BRUSH
Henry G. Volckening, Brooklyn, N. Y., assignor to Volckening Inc., a corporation of New York
Application June 14, 1937, Serial No. 148,046
6 Claims. (Cl. 15—128)



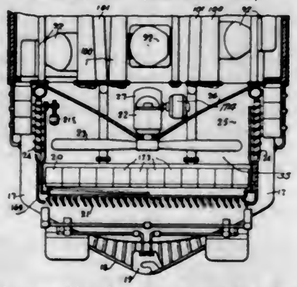
1. A rotatable cleaner head for a washing machine of the class described, said heads having at least two brush components, each said brush component extending along the axis of rotation of said head and made of a material such as rubber having a resilient yielding characteristic and divided into elongated cleaning fingers or elements of greater individual mass than that of a bristle element of a bristle type brush for the intended use, said brush component having an integral ring at one end from which said fingers extend, said brush components being one within the other, and the ring portion of the inner component being of a less diameter than the ring portion of the outer component, the inner brush component being less affected by centrifugal force and therefore adapted to work against the bottom of a bottle adjacent to the axis of rotation, and the fingers of the outer component being subject to the action of a centrifugal force of greater value and thereby adapted to work upon the circumjacent inner wall of the bottle, and a brush support upon which said brush components are fitted, said brush support having an axial opening communicating with the interior of said inner brush component and being provided with exterior threaded seats of which one is of a diameter adapted to receive the outer ring portion of greater diameter and the other is of a lesser diameter and adapted to receive the similar ring portion of the other brush component.

2,170,741
KNITTED FABRIC
Frank Ware, Moorestown, N. J., assignor to Travelo Corporation, Philadelphia, Pa., a corporation of Pennsylvania
Application May 5, 1937, Serial No. 140,788
3 Claims. (Cl. 66—197)



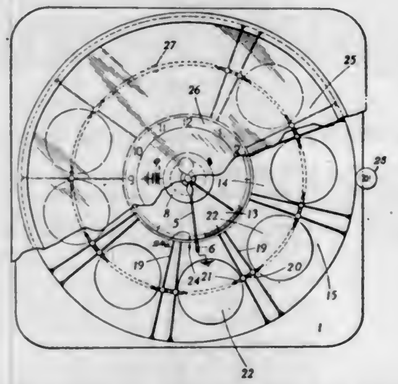
1. A knitted fabric having alternate and adjacent two-ply and single-ply portions arranged according to any desired pattern and having a greater number of knitted courses in one of the plies of the two-ply portions than in the other ply of the two-ply portions and the thread forming the low-course ply being interknitted with the thread of the high-course ply at patterned intervals in a course, and the thread forming the high-course ply being floated within the fabric in an unknitted condition over those portions of the course at which the thread of the low-course ply is interknitted with the thread of the high-course ply.

2,170,742
LOCOMOTIVE
Frank B. Yingling, Hamilton, Ohio
Original application February 4, 1933, Serial No. 655,241. Divided and this application November 26, 1934, Serial No. 754,734
2 Claims. (Cl. 105—35)



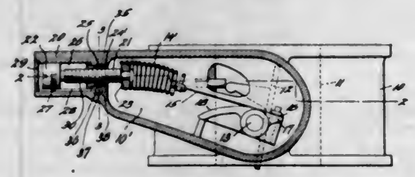
1. In a locomotive having a unitary frame having side walls, a multiple bank Diesel engine having the banks arranged through an arc of 180 degrees above the frame and a generator connected to a common crank shaft of said engine, said generator being suspended between said walls of the frame; a radiator spaced from the engine, and means to guide the air through the front of the radiator and behind to one side of the radiator between the radiator and the engine, said walls being cut away at the front of the locomotive to support said radiator from a point below said engine to a point above it.

2,170,743
CLOCK-DRIVEN INDICATOR
Fred Alderman, Peterborough, England
Application August 31, 1936, Serial No. 98,773
In Great Britain September 2, 1935
7 Claims. (Cl. 58—126)



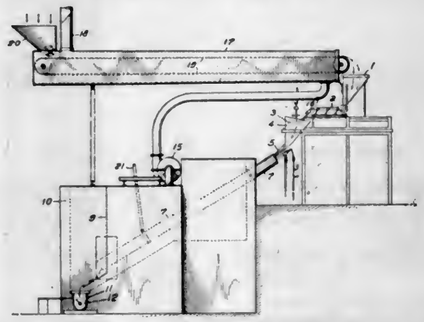
1. The combination of an indicator dial and indicating means thereon for use on a programme clock including a spindle and a pointer on said spindle, comprising an item carrying member, guide means concentric with the center of said member, slidable division members constrained against radial movement in both directions by said guide means, and means on said division members for detachably fastening elements on which are indicated the programme items to said division members so as to be jointly supported by adjacent division members.

2,170,744
GOVERNOR
Herman G. Adler, Detroit, Mich., assignor, by mesne assignments, to King-Seeley Corporation, Ann Arbor, Mich., a corporation of Michigan
Application March 17, 1937, Serial No. 131,448
4 Claims. (Cl. 267—1)



1. A device for changing the flexibility and tension characteristics of a spring controlling the butterfly valve in the intake manifold of an internal combustion motor comprising means including a helical spring acting between an anchor and said valve counterbalancing the effort thereof at a predetermined speed of the motor and in all positions thereof, said anchor comprising a screw having a fixed head threaded for engagement with the coils of said spring, a nut threaded on said screw and mounted for rotation only, means to rotate said screw in the nut and spring, and means to rotate the nut about the screw.

2,170,745
METHOD OF HEAT TREATMENT
John Goyer Brush, Westfield, N. J., assignor to American Cyanamid & Chemical Corporation, New York, N. Y., a corporation of Delaware
Application December 28, 1936, Serial No. 117,898
4 Claims. (Cl. 263—53)



1. A method of calcining gypsum which includes continuously feeding the material in a stream through a flame at greater than a calcining temperature.

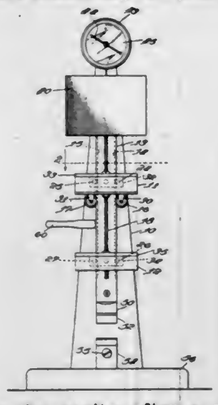
2,170,746
PRODUCTION OF TERTIARY ALIPHATIC AMINES
Bruno Christ, Ludwigshafen-on-the-Rhine, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
No Drawing. Application February 19, 1938, Serial No. 191,491. In Germany March 3, 1937
7 Claims. (Cl. 260—583)

1. The process of producing tertiary aliphatic amines, which comprises leading a vaporizable saturated aliphatic aldehyde having from 2 to 6 carbon atoms in the molecule with a secondary alkyl amine, each alkyl group of which contains at the most 6 carbon atoms, in the vapor phase with hydrogen at an elevated reaction temperature at which decomposition does not occur under about atmospheric pressure over a hydrogenation catalyst.

2,170,747
APPARATUS FOR GAUGING WETTED MATERIAL
Lloyd E. Dimond, Chicago, Ill., assignor to Wilson & Co., a corporation of Delaware
Application December 27, 1937, Serial No. 181,883
3 Claims. (Cl. 33—147)

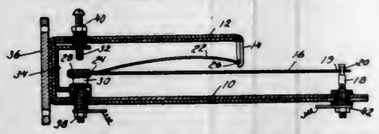
1. Apparatus for pregauging wet material comprising a base member provided with a narrow rectilinear cavity therein, a plunger having an end portion adapted to fit the cavity and movably mounted to enter the cavity, means for urging the plunger into the cavity by a predetermined pres-

sure, and a measuring device directly connected to the plunger for measuring the penetration of the



plunger into the cavity after a predetermined time interval.

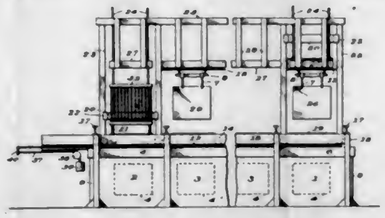
2,170,748
SNAP SWITCH
Malcolm Webster Eaton, Freeport, Ill., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois
Application December 4, 1935, Serial No. 52,771
21 Claims. (Cl. 200—138)



1. A snapswitch comprising the combination of an elongated tension member operatively mounted at one end thereof with the other end free to move and an adjacent spring strip connected to the free end of said tension member, said spring strip being bowed in longitudinal compression and being pivoted at the end opposite to said connected end at a point between the mounted and free ends of said tension member, said pivot point being movable in a transverse direction to cross the tension center line of said tension member, said member and said spring strip being so arranged that said connected end is caused to move with a snap action as said pivot point is moved through the tension center line of said tension member, the element on which said spring strip is pivoted being operatively independent of the element on which said tension member is operatively mounted.

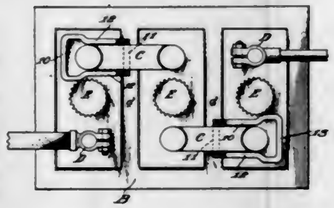
2,170,749
FURNACE FOR HEATING GLASS PLATES FOR TEMPERING
Lewis Jex-Blake Forbes, St. Helens, England, assignor to The American Securit Company, Wilmington, Del.
Application February 7, 1936, Serial No. 62,855
In Great Britain February 21, 1935
5 Claims. (Cl. 49—46)

1. A multi-stage furnace for heating vertical glass plates for tempering, comprising in combination a plurality of furnaces, top stones for the first and last furnaces provided with slots through which plates can be inserted and removed respectively in a vertical direction, suspension means for the plates, means adapted to permit movement of the plates from the first furnace to the last furnace, an intermediate top stone provided with a slot giving communication between the slots in the first and last top



stones along which slot said suspension means are adapted to pass as the plates travel from the first to the last furnace, and means adapted to permanently close the furnaces to the outer air except at the slots in the first and last top stones.

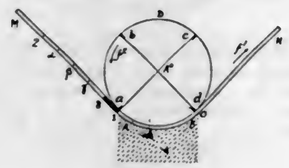
2,170,750
HANDLE OR LIFTING DEVICE FOR STORAGE BATTERIES
Alfred Foster, New York, N. Y., assignor to Royal Battery Corporation, New Brunswick, N. J., a corporation of New Jersey
Application February 15, 1938, Serial No. 190,648
4 Claims. (Cl. 136—181)



1. In combination with a storage battery including a pair of intercell connectors; a handle individual to each connector, the handles having pivotal connection with the connectors and normally lying parallel therewith and below the upper surfaces thereof, the handles being capable of projection from the battery through the pivotal connections for providing hand holes in lifting the battery.

2,170,751
METHOD AND DEVICE FOR REDUCING AND INCREASING AUDIO FREQUENCIES
Leonide Gabrilovitch, Paris, France
Application March 6, 1937, Serial No. 129,523
In France March 10, 1936
7 Claims. (Cl. 179—100.2)

1. A device for reducing audio-frequencies comprising means for recording the vibrations to be transmitted on a ferro-magnetic wire or band, means for reproducing and transmitting such record at a reduced speed by at least one reading coil the core of which undergoes the magnetic influence of the record to be reproduced, said coil moving continuously in the same direction as the wire bearing the record but at a lower speed, effecting reproduction only periodically during the intervals of time during which the reading coil is at a sufficiently small distance from the record that owing to the disposition of the coil certain parts only of the record are reproduced and means for recording and reproducing the transmitted periodic frequencies at an increased speed substantially that

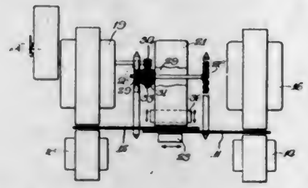


of the original frequencies comprising a moving coil and a ferro-magnetic wire or band, said coil moving continuously in the same direction as the wire but at a higher rate.

2,170,752
FILAMENT OF RAYON FROM VISCOSE
Walter Hamis Glover, Leamington, and George Samuel Heaven, Coventry, England, assignors, by mesne assignments, to American Viscose Corporation, a corporation of Delaware
No Drawing. Application January 13, 1927, Serial No. 161,020. In Great Britain March 29, 1926
1 Claim. (Cl. 28—1)

Viscose artificial silk thread containing a small proportion of a high boiling petroleum dispersed throughout the body of the thread for the purpose set forth, the quantity of petroleum being from about one per cent and upwards by weight of the thread, depending upon the degree of dulling required.

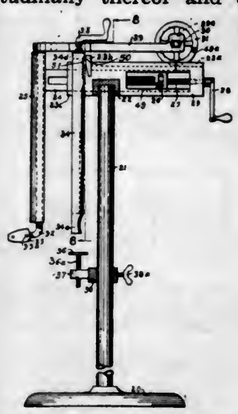
2,170,753
ELECTRIC METER
Stanley S. Green, La Fayette, Ind., assignor to Duncan Electric Manufacturing Company, La Fayette, Ind., a corporation of Illinois
Application December 14, 1935, Serial No. 54,386
15 Claims. (Cl. 171—264)



1. A watt-hour meter including a plurality of driving elements, a disc for each element, each of said discs being mounted on a rotatable shaft, and said discs radially overlapping one another paritially to provide in a minimum of space independent discs on which conventional driving elements may act, and a damping magnet positioned adjacent the overlapping portions of said discs and acting on both of them simultaneously.

2,170,754
COMBINATION BOOT AND SHOE STRETCHING AND LENGTHENING DEVICE
Charles Gregory, Amarillo, Tex.
Application December 15, 1936, Serial No. 116,006
21 Claims. (Cl. 12—128.6)

1. In a combination shoe and boot stretcher and lengthener, a base, a supporting member, a body mounted upon said supporting member, a slidable member coacting with said body and slidable longitudinally thereof and carrying foot

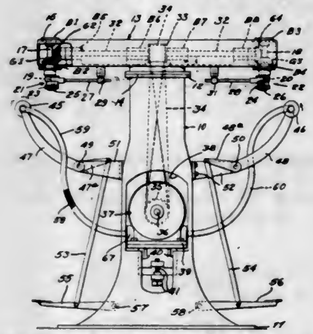


members and means for actuating the foot members.

2,170,755
METHOD OF MAKING RESIN-FIBER COMPOSITIONS
Norman D. Hanson, Bloomfield, N. J., assignor to Bakelite Corporation, New York, N. Y., a corporation of Delaware
No Drawing. Application April 8, 1935, Serial No. 15,349
5 Claims. (Cl. 92—21)

1. A method of making a quick-curing resin-fiber composition which comprises treating a sheeted mixture of a fibrous material and from 15 to 40% of a phenol-aldehyde resin reacted approximately to the gel point with from 5 to 25% of a free-flowing, quick-curing phenol-aldehyde resin.

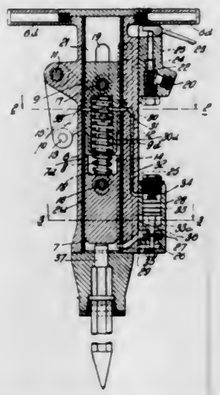
2,170,756
HAT-FINISHING MACHINE
George Hayes, Norwalk, Conn., assignor to George Frederick Farr, Luton, England
Application April 30, 1938, Serial No. 205,152
14 Claims. (Cl. 223—20)



1. A machine for surface finishing of felt and the like comprising an upstanding T-shaped frame carrying two operating tools, one at the end of each arm of the frame, and means movably mounting said tools for movement in the general direction of the length of said arms, two work-supporting means for supporting work in operative relation to said tools, respectively, and means for preventing reversals in direction of

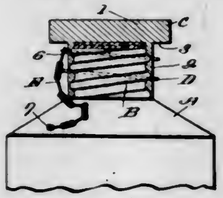
movement of said tools from setting up vibrations and from interfering with the presentation of the work to said tools by said work-supporting means comprising gearing and driving connections for said two tools forcing the latter always to partake of movements in opposite directions with respect to one another, whereby the strains caused by reversals in direction of movement are always opposite and substantially neutralize each other.

2,170,757
POWER HAMMER
John Holloway, Burnham, England, assignor to Holloway Patents Limited, Slough, Bucks, England
Application July 28, 1936, Serial No. 93,075
In Great Britain July 30, 1935
21 Claims. (Cl. 125—33)



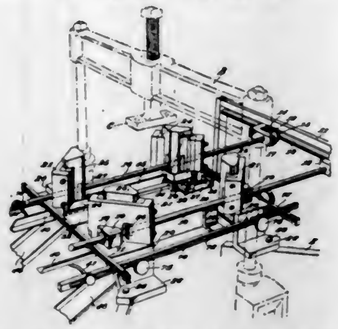
1. In a power hammer the combination of a support, two bodies slidable on said support, a lever mechanism to connect said bodies together and allow them to slide on said support in the same direction at differential speeds, an elastic medium between said bodies, means to cause said bodies to slide on said support to compress said elastic medium between the faster and the slower moving body, and means operative at a predetermined point in the stroke of the moving bodies to release the energy stored in said elastic medium to accelerate the return of said bodies to their original positions to cause the delivery of an impulsive force by said faster moving body.

2,170,758
CONTAINER CLOSURE RETAINER
Carl J. Lehwald, Salem, Ohio
Application May 3, 1939, Serial No. 271,583
8 Claims. (Cl. 221—60)



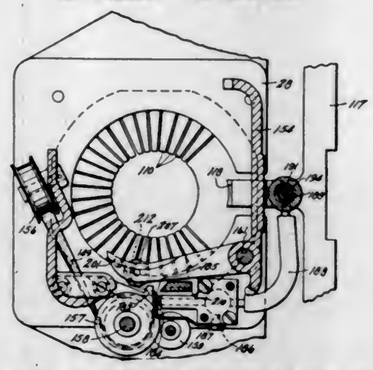
1. In a device of the character described, a container provided with an outlet, a closure cap for said outlet rotatably applicable to and removable therefrom, a wire coiled about said cap, and a cap retainer secured to said container and having an end freely movable on said wire.

2,170,759
PAPER BOX CONSTRUCTION
John Howard Lentine and Victor Loigman, Philadelphia, Pa., assignors to Central Paper Box Company, Philadelphia, Pa., a copartnership
Application May 14, 1938, Serial No. 208,075
17 Claims. (Cl. 93—41)



1. In combination with a paper box staying machine comprising a reciprocable die for bending the margins of scored cardboard blanks to form the sides and ends of a box; an attachment comprising cooperating cutting knives operatively connected with the machine and disposed adjacent the corner of the die for removing the corner portions of the blanks immediately prior to the bending of the margins thereof by the aforesaid die.

2,170,760
BOTTLE HOODING MACHINE
Norman W. Lyon, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application February 7, 1936, Serial No. 62,818
23 Claims. (Cl. 226—80)



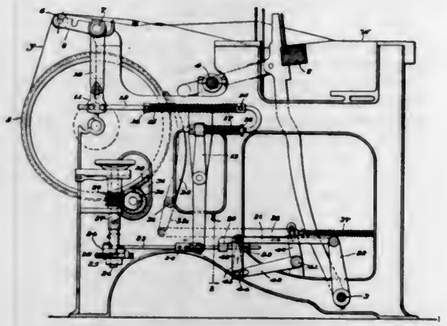
11. In a machine for securing a hood upon a bottle, means rotating about the axis of the bottle for supplying a length of tape, means rotating about the axis of the bottle for applying the tape to the hood around the neck of the bottle, and means operative during the action of the applying means for holding the tape to the hood so that it will not be shifted thereon by the action of the applying means.

2,170,761
MECHANICAL PENCIL
Hans Maucher, New York, N. Y., assignor to Norma Multikolor, Inc., New York, N. Y., a corporation of New York
Application January 7, 1939, Serial No. 249,681
6 Claims. (Cl. 120—14)



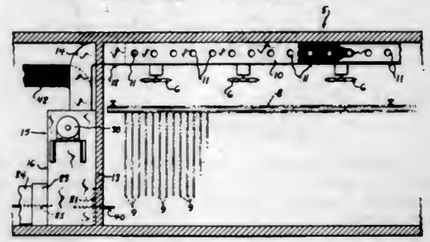
2. In a multi-lead pencil, a casing, a longitudinal partition member arranged in the casing and having walls forming a plurality of beds, a plurality of lead carrying members movably arranged on said beds and separated from each other by the longitudinal partition member and a spring on each lead carrying member urging said lead carrier against the bed on which it is arranged.

2,170,762
LET-OFF MECHANISM FOR LOOMS
Ivar O. Moberg, Lowell, Mass., assignor to Nashua Manufacturing Company, Nashua, N. H., a corporation of New Hampshire
Application July 28, 1938, Serial No. 221,763
6 Claims. (Cl. 139—108)



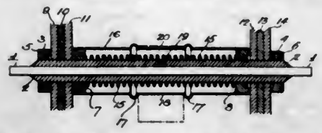
1. In a loom provided with weaving instrumentalities including a warp beam and a spring tensioned whip roll over which the warp yarns drawn from said beam are guided, the combination of mechanism for operating the beam to let off the warp as the weaving operation progresses, means governed by the position of said roll for controlling the let-off operation, a feeler yieldingly held in contact with the yarn body on said beam, and a tapered member controlled as to position by said feeler and cooperating with said means in controlling said let-off operation.

2,170,763
DRYING SYSTEM
John B. Ohlson, Philadelphia, Pa., assignor to Ira Milton Jones, Milwaukee, Wis.
Application May 4, 1936, Serial No. 77,697
4 Claims. (Cl. 34—19)



1. In a drying apparatus of the character described, the combination of a drying chamber to receive the material to be dried, a blower for inducing a positive circulation of air into and out of the chamber, means connecting the intake of the blower with the outside atmosphere and with the chamber so that fresh outside air and air from the chamber may be conducted to the blower, dampers for controlling the passage of air through said means whereby the air entering the chamber is controlled to be either fresh air from outside the chamber or recirculated air from inside the chamber, means for adjusting the dampers, a plurality of humidostats within the chamber, each separately operable to govern the adjusting means for the dampers so as to maintain a relative humidity in accordance with the setting of the humidostat, and manually adjustable power driven means for automatically determining the sequence and duration of time for which the different humidostats are operable to govern the functioning of the damper adjusting means.

2,170,764
YARN SWIFT
Montgomery B. Penman, Bloomsburg, Pa., assignor to Magee Carpet Company, Bloomsburg, Pa., a corporation of Pennsylvania
Application April 5, 1937, Serial No. 135,176
8 Claims. (Cl. 242—111)

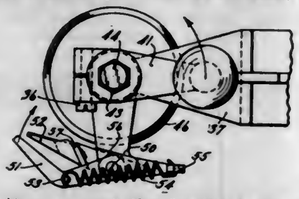


1. A yarn swift comprising a continuous axially extending tubular hub element adapted to receive a swift supporting spindle, a plurality of independently relatively movable arms pivotally mounted on and adjacent each of the opposite ends of said hub element, and means for effecting equalized frictional contact between the pluralities of arms at both ends of said hub element simultaneously.

2,170,765
BOTTLE HOODING MACHINE
Robert M. Price, Springfield, Mass., assignor to Package Machinery Company, Springfield, Mass., a corporation of Massachusetts
Application February 7, 1936, Serial No. 62,823
8 Claims. (Cl. 226—80)

1. In a bottle hooding machine having means for draping a hood over the mouth and neck of a

bottle, a guide rotatable about the bottle for guiding a length of adhesive tape into contact with a hood so draped over the bottle, and a de-



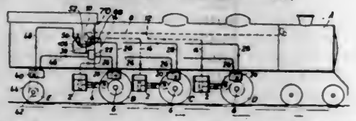
vice rotating around the bottle for pressing the tape so guided directly against the hood and into adherent contact therewith throughout its circumference.

2,170,766

APPARATUS FOR SPINNING PREVENTION OF TRACTION WHEELS

Wilhelm Rieger, Kassel-Wilhelmshohe, Germany

Application January 19, 1939, Serial No. 251,853
In Germany December 3, 1937
10 Claims. (Cl. 105—48)



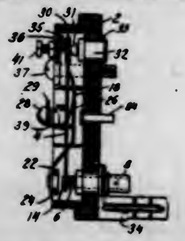
1. In a locomotive, an apparatus for preventing the spinning of independently driven driving axles comprising a plurality of independently powered driving axles, a non-driving axle turnable in response to linear movement of said locomotive, a fluid pump for each of said driving axles and said non-driving axle and operable, respectively, thereby, a piston control device for each of said driving axles, means for applying fluid pressure from said non-driving axle pump against one side of the piston in each control device, means for applying fluid pressure from a driving axle pump to the opposite side of the piston in the control device corresponding to that pump, and means controllable by a differential in fluid pressure on opposite sides of said piston for varying the power supply to its corresponding driving axle.

2,170,767

SNAP SWITCH

Arthur Lewis Riche, Freeport, Ill., assignor, by mesne assignments, to Micro Switch Corporation, Freeport, Ill., a corporation of Illinois

Application January 27, 1937, Serial No. 122,488
4 Claims. (Cl. 200—67)



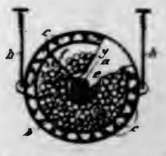
1. A snap switch comprising, in combination, a base, an elongated tension member having one end operatively mounted on the base, a cantilever spring member mounted upon the base in proximity to the mounting point of the tension member, said cantilever member comprising a flexible portion extending to a point under the tension member, said cantilever spring member having an up-turned portion having an opening therein through which the tension member passes and a turned-out portion extending along the top side of the tension member, spring strips bowed in longitudinal compression between the free end of the tension member and pivot points on the free end of the cantilever spring member, and a pair of stops between which the free end of the tension member moves, the members being so arranged that the free end of the tension member moves with a snap action as the cantilever spring member is depressed to move the pivot point across the tension center line of the tension member.

2,170,768

GRINDING AND THE LIKE APPARATUS

Georg Heinrich Schieferstein, Berlin-Charlottenburg, Germany

Application October 19, 1936, Serial No. 106,464
In Germany June 16, 1936
9 Claims. (Cl. 83—9)



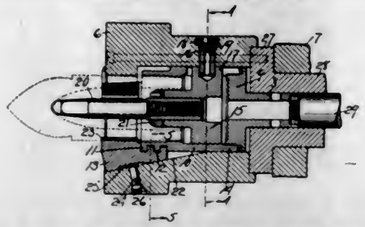
1. A device for grinding material including a swingable receptacle for containing loose grinding bodies having their axes parallel to the axis of said receptacle, a swingable body surrounding said receptacle and having its axis parallel to that of said receptacle, means mounting said body for limited swinging movement, said mounting means causing said body to serve as a counterweight for the said receptacle, said receptacle being positioned within said body and elastic means spacing said receptacle and body apart.

2,170,769

CHUCK

Harry E. Sloan, Hartford, and George A. Highberg, West Hartford, Conn., assignors to The Cushman Chuck Company, Hartford, Conn., a corporation of Connecticut

Application April 7, 1937, Serial No. 135,458
2 Claims. (Cl. 279—60)



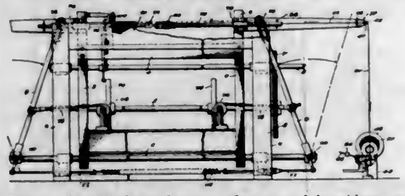
1. A chuck including a chuck body having a chamber therein, a chuck jaw actuating sleeve slidably fitting said chamber the wall of which forms a bearing for the sliding movement of said sleeve for substantially its whole length, the latter having openings therein at its inner end, a fixed stop support extending within said sleeve and having projections extending through said openings, means for securing said projections to said chuck body, means for imparting longitudinal movement to said sleeve, and chuck jaws rotatably mounted in recesses in said body and operatively connected with said sleeve.

2,170,770

SHUTTLELESS LOOM

Woodruff T. Sullivan, Norwich, Conn.

Application October 14, 1938, Serial No. 235,044
17 Claims. (Cl. 139—127)



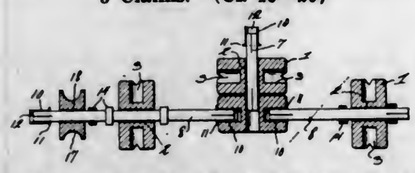
1. In a shuttleless loom, the combination with a support, of operating tubes on said support, a pair of gripping devices on the inner ends of said tubes, each gripping device comprising a pair of hinged jaws, a spring between and fastened at its ends to the jaws of each pair, gripping blocks on the jaws of each pair, and means for operating said tubes.

2,170,771

TOY CONSTRUCTION ELEMENTS

Walter R. Benjamin, Granite City, Ill., assignor to W. R. Benjamin Co., Granite City, Ill.

Application February 18, 1939, Serial No. 257,253
3 Claims. (Cl. 46—29)



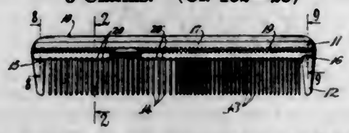
1. Toy construction elements having in combination a hub member having an axial opening therethru and circumferentially spaced sockets in its periphery, said opening and sockets being of the same diameter, two series of rods, the rods of one series being of a diameter substantially the same as the diameters of the opening and sockets of the hub member, the rods of the second series being of a diameter less than the diameters of the central opening and sockets of the hub member, a flanged bushing having a bore of a diameter to tightly receive a rod of smaller diameter, said bushing being of a major diameter to snugly engage within the opening or sockets of the hub member.

2,170,772

COMB CLEANER

Robert Walter Busch, Maywood, Ill., assignor of one-third to Frederick E. Hummel and one-third to Charles T. Patock, both of Chicago, Ill.

Application May 14, 1938, Serial No. 207,895
5 Claims. (Cl. 132—28)



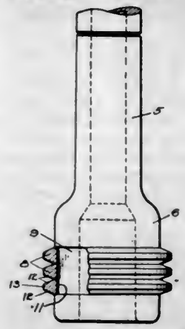
1. A comb cleaner, comprising a substantially oval U shaped structure, provided with comb cleaning teeth fitting alternately between the teeth of a comb, and having a flexible portion to fit snugly on the back of a comb.

2,170,773

BOBBIN

Fredric E. Douglas, Hopedale, Mass., assignor to Draper Corporation, Hopedale, Mass., a corporation of Maine

Application April 4, 1939, Serial No. 265,954
3 Claims. (Cl. 242—120)



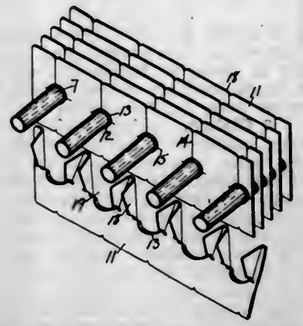
1. A bobbin for automatic bobbin changing looms, said bobbin comprising a barrel portion, a non-metallic butt portion having a single wide circumferential groove therein, and a plurality of steel holding rings seated side by side in said single groove, each of said rings in cross-section having a relatively wide base providing a substantial bearing area engaging the bottom of said groove and a relatively narrow top adapted to fit the holding notches of the usual shuttle spring jaws, the total width of the base portions of said rings being equal to the width of said groove.

2,170,774

METHOD OF MAKING RADIATORS

Joseph F. Fagan, West Hartford, Conn., assignor to The Bush Manufacturing Company, Hartford, Conn., a corporation of Connecticut

Application February 19, 1938, Serial No. 191,477
4 Claims. (Cl. 113—118)



1. The method of forming a radiator that consists in making a hole in a radiating fin, extending a cut into said hole from the edge of the fin, extending short cuts out of said hole laterally of the direction of the first cut, thereby creating wings on opposite sides of said cut, bending the wings outwardly to create a gap from the edge of said fin into said hole, then inserting a conduct-

ing tube from the outer edge of said fin and laterally thereof through said gap into said hole, said gap being of a width substantially equal to the diameter of said tube and then bending the wings back into their original positions.

2,170,775

FOOD IMPELLING MECHANISM

Joseph D. Ferry, Harrisburg, Pa.; Sylvia O. Ferry, executrix of said Joseph D. Ferry, deceased

Application September 2, 1937, Serial No. 162,211
17 Claims. (Cl. 53—7)



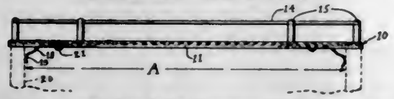
17. In a food treating apparatus, a container for treating liquid, a food impeller, impeller actuator means, means pivotally suspending said impeller from the actuator means, and motion translating means on the container in slidable and rotative engagement with said suspension means for compounding the movement thereof.

2,170,776

FLUSH TANK UTILITY SHELF

Arthur H. Goepel, Waterbury, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Application August 11, 1938, Serial No. 224,319
5 Claims. (Cl. 4—68)



1. In a cover for attachment to a flush tank, a relatively flat tray, a pair of brackets, means for securing said brackets to the underside of said tray, said means comprising a bolt, washer and nut for each bracket, said bolt formed with an intermediate shank with opposed flattened sections, said tray having a pair of holes corresponding in shape to the transverse section of said shank, said brackets each having a longitudinal slot of a width equal to the distance across the flats of said shank, the shank of said bolts being engaged in said tray holes and bracket slots and serving to permit longitudinal adjustment of said brackets without relative twisting of said brackets to said tray.

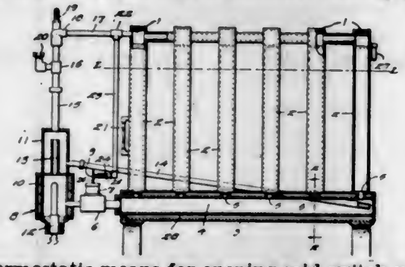
2,170,777

HOT WATER HEATING RADIATOR

John F. Haywood, Lewistown, Pa., assignor of one-third to Oscar F. Brush and one-third to Hugh B. McMeen, both of Lewistown, Pa.

Application July 7, 1938, Serial No. 218,004
5 Claims. (Cl. 237—16)

5. A water radiator comprising a plurality of water tube units, a water manifold connecting said units and communicating with each, a water receiving tube within the manifold and extending throughout the length thereof, a water heater disposed at one end of said tube and consisting of a lower chamber and an upper chamber, water transfer means between the lower chamber and the adjacent end of said manifold enclosed tube, an electric heating unit within said lower chamber, an overflow pipe extending from the upper part of the lower chamber to the upper part of the upper chamber and discharging into the latter chamber, a pipe communicating at one end with said upper chamber and extending downwardly therefrom to the remote end of said last tube and opening thereinto, said last tube having a plurality of upwardly discharging nipples each communicating with a unit tube and having a series of bottom openings communicating with the manifold, a steam pipe connecting the upper chamber with the upper part of one of the units, a control switch for regulating the flow of current to said electrical heating unit,



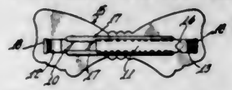
thermostatic means for opening said switch upon development of excessive temperature in the water, and steam operated means connected with said steam pipe for opening said switch upon the development of excessive steam pressure in the units.

2,170,778

HAIR FASTENER

William Huppert, New York, N. Y., assignor to Delamere Company, Inc., a corporation of Delaware

Application October 20, 1938, Serial No. 235,971
2 Claims. (Cl. 132—48)



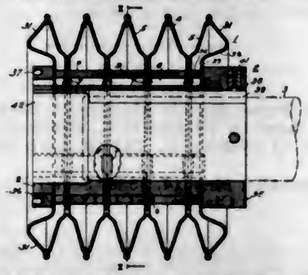
1. A barrette comprising a spring clasp formed with an upper and a lower arm connected at one end by a bend, a covering member having a centrally arranged longitudinal groove in its rear face of a length equal to the overall length of the clasp, said groove having an integral raised flange at each side and an integral raised stop at each end, the lower arm of the clasp being received in the groove with its ends abutting the stops to prevent any relative longitudinal movement of the clasp and covering, and being held in the groove by an overlapped portion of each of the flanges.

2,170,779

SHEET METAL PULLEY

Harry W. Larson, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware

Application November 2, 1935, Serial No. 47,938
6 Claims. (Cl. 74—230.8)



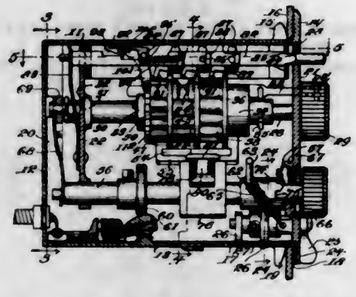
2. A sheave comprising a collection of sheet metal disks each having a flared peripheral belt receiving surface, said disks being arranged in pairs alternately positioned to constitute belt grooves and joined at their points of engagement, adjacent disks of adjacent groove-forming pairs of disks contacting only at their peripheral portions, end disks engaging the next adjacent disk at its periphery and extending axially outward and radially inward and then curved axially inward and radially inward forming a reentrant bend extending inwardly beyond the plane of the disk periphery, and a hub having at one end a shoulder and at the other end a binding nut, both said shoulder and said nut being shaped to be received within the reenerant portions of said end disks.

2,170,780

COMBINATION LOCK IGNITION SWITCH

Emmett Massey, Proctor, Ark., assignor of one-half to O. C. Pittman, Chatfield, Ark.

Application July 26, 1938, Serial No. 221,403
2 Claims. (Cl. 200—45)



1. In combination, an ignition switch, a shaft, combination lock mechanism on the shaft including members having notches therein adapted to be brought into alignment when the proper combination is set by the operator, a pivoted spring pressed plate adapted to spring into the aligned notches, an ignition switch controlling shaft normally locked by said plate to hold the ignition switch in open circuit position and adapted to be released by the plate for manual operation when said plate springs into said notches to permit the ignition switch to be moved to closed circuit position, and means connected to both shafts adapted to disarrange the slots in the combination lock mechanism when the second named shaft is manually turned to hold the ignition switch in open circuit position and prevent any movement of the ignition switch controlling shaft until the combination is again set by the operator.

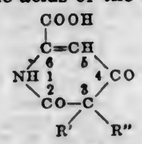
2,170,781

2,4-DIOXO-3,3-DIALKYL-TETRAHYDRO-PYRIDINE-6-CARBOXYLIC ACIDS AND PROCESS FOR THEIR MANUFACTURE

Otto Schnider, Basel, Switzerland, assignor to Hoffmann-La Roche Inc., Nutley, N. J., a corporation of New Jersey

No Drawing. Application May 27, 1938, Serial No. 210,516. In Germany August 25, 1937
7 Claims. (Cl. 260—295)

1. The 2,4-dioxo-3,3-dialkyl-tetrahydro-pyridine-6-carboxylic acids of the type formula



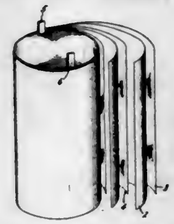
in which R′ and R″ are alkyl groups.

2,170,782

ELECTRIC CAPACITOR

Frank M. Clark, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York

Application March 18, 1937, Serial No. 131,634
8 Claims. (Cl. 175—41)



1. An electric capacitor having armatures and a dielectric material consisting to a substantial extent at least of chlorinated diphenylene oxide.

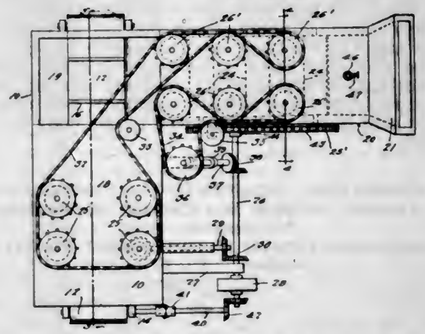
8. An electric capacitor comprising armatures, a paper dielectric therebetween and an impregnant for said paper consisting essentially by weight of about 30 to 45 per cent of trichlor diphenylene oxide and about 70 to 55 per cent of pentachlor diphenyl, the capacity of said capacitor being substantially constant over a temperature range of 25 to 75° C.

2,170,783

BRICK CLEANING MACHINE

Eddie C. Cousart, Danville, Va., assignor of forty per cent to Clyde A. Luck and thirty per cent to C. S. Cowan and N. T. Williams, all of Danville, Va.

Application June 21, 1938, Serial No. 215,020
3 Claims. (Cl. 125—26)



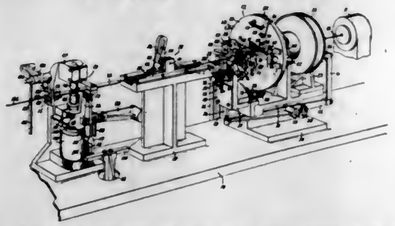
1. A brick cleaning machine comprising a horizontally arranged trough, an inclined chute connecting with said trough at one end thereof for receiving and discharging into the trough bricks, an endless conveyor operating in the trough to receive the bricks from the chute and convey said bricks to one end of the trough for disbursement, rotatable cleaning brushes operating in the chute to clean certain faces of the bricks of foreign matter as said bricks pass through the chute by gravity with certain of the brushes acting to force the bricks downwardly through the chute, rotatable brushes operating in the trough for cleaning the other faces of the bricks as they are moved endwise of the trough by the conveyor, and means for rotating the brushes and driving the conveyor.

2,170,784

APPARATUS FOR FLATTENING LEAD WIRES

John F. Donovan, East Cleveland, and John Flaws, Jr., Cleveland Heights, Ohio, assignors to General Electric Company, a corporation of New York

Application November 13, 1937, Serial No. 174,416
8 Claims. (Cl. 29—34)



1. Apparatus for flattening portions of a leading-in wire comprising a pair of opposed anvils, means for intermittently feeding a length of the wire longitudinally to carry spaced portions thereof between the faces of said anvils, means operable upon cessation of the longitudinal movement of said wire for repeatedly actuating one of said anvils to compress the portion of the wire therebetween and flatten it to the desired thickness, and means for severing said wire into lengths each including one of said flattened portions.

2,170,785

HAIR CURLER

Elizabeth A. Hoysted, New York, N. Y.

Application October 26, 1937, Serial No. 171,015
5 Claims. (Cl. 132—33)



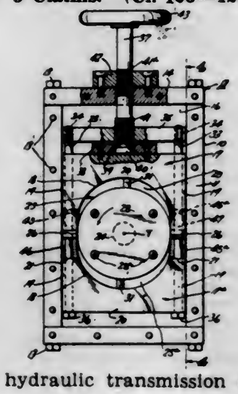
1. A hair curler adapted to be rolled bodily as a bunch of hair is wound thereon comprising a body having a tubular end portion arranged at an angle to the body so as to receive a bobby pin and hold the same in place by friction, and a substantially straight flat, resilient clamping arm normally pressing against said body, said clamping arm being rigidly secured to the body at one end.

2,170,786

HYDRAULIC TRANSMISSION APPARATUS

Isaac E. McElroy and Richard H. Shadrick, Minneapolis, Minn.

Application October 27, 1937, Serial No. 171,261
5 Claims. (Cl. 103—120)



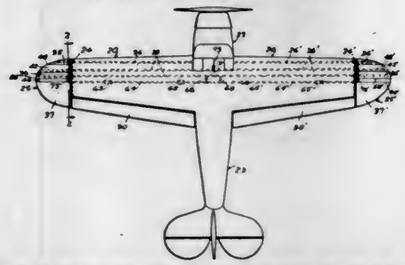
1. In a hydraulic transmission device of the character described, a pump comprising a housing, a pair of block members slidably mounted in the housing and having opposed semicircular recesses, a rotor carrying radially slidable vanes journaled in the housing between the recesses in the said block members, means for moving the block members together or apart whereby separate chambers of variable volume are formed each side of the rotor, the said block members including side portions which remain at all times in contact with the rotor at diametrically opposite points to isolate the said chambers one from the other, and these side portions being notched out in opposite sides and arranged in overlapping relationship whereby inlet and outlet openings will be formed through these notches leading into the chambers when the block members are moved apart.

2,170,787

LATERAL CONTROL MEANS FOR AIRPLANES

William K. Rose, New York, N. Y.

Application May 21, 1938, Serial No. 209,220
27 Claims. (Cl. 244—42)



1. Lateral control means for an airplane embodying (*a*) an airfoil, (*b*) a wing tip at each end thereof, each wing tip comprising a nosepiece, a fixed body portion and an aileron, (*c*) the nosepiece at the rear thereof and the fixed body portion at the front thereof being provided with curved vanes or blades forming a forward passageway therebetween, the fixed body portion at the rear thereof and the aileron at the front thereof being provided with curved vanes or blades forming a rearward passageway therebetween, the said passageways having their inlet ports at the bottom of the airfoil to the front of their outlet ports at the top of the airfoil, (*d*) means for opening and closing said passageways, (*e*) means for simultaneously moving the ailerons about an axis or axes substantially transverse to the line of flight to positions above and below the normal planes of their respective wing tips whereby the ailerons may be moved to different angles relatively to the airfoil and to each other so as to present to the airstream different angles of incidence, (*f*) the parts being so constructed and arranged that with the aileron of the wing tip on one side of the airfoil in lowered position and the aileron of the wing tip on the other side of the airfoil in raised position the forward and rearward passageways of the wing tip with its aileron lowered are open and comprise passageways of gradually decreasing cross-section from inlet to outlet with their mean cross-sectional line gradually flattening from inlet to outlet, the amount of opening being such that there is no appreciable straight-line path for air from inlet to outlet, and at the wing tip having its aileron raised the forward passageway is open to permit a free flow of pressure air upwardly therethrough and the rear passageway is maintained closed, (*g*) whereby the correlated action of the two wing tips and the airfoil on the airstream modifies the flow thereof in such way that a predominant rolling force is created which persists and maintains lateral control of the airplane well beyond the stalling angle of the airfoil.

2,170,788

FISHING LINE LEADER

Jack Augenblick, Atlantic City, N. J., assignor to Sports Equipment Mfg. Corp., a corporation of New Jersey

Application May 9, 1938, Serial No. 206,896
1 Claim. (Cl. 43—28)



A fishing line leader formed from a single length of non-rustable pliable material fashioned into a main strand and arms extending laterally from said main strand near the ends of the latter, said single length of material being return-bent near its ends to provide end loops and adjacent contiguous strands, and the end portions of said length of material being extended laterally and return-bent to form the arms with loops at their outer ends and of contiguous strands, and means securing said contiguous strands together and to the main strand of the leader.

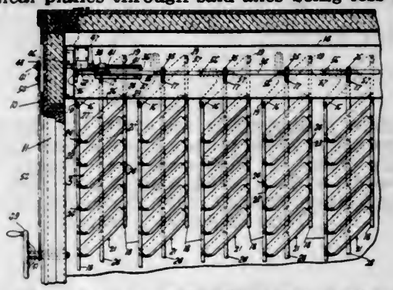
2,170,789

EGG TURNING MECHANISM FOR INCUBATORS

Samuel H. Smith, Rocky River, Ohio

Application July 21, 1936, Serial No. 91,698
20 Claims. (Cl. 119—44)

1. In an incubator, the combination of egg supporting means arranged in adjacent tiers, means for supporting said egg supporting means for tilting movement about substantially fixed and horizontal axes, the horizontal distance between vertical planes through said axes being less than



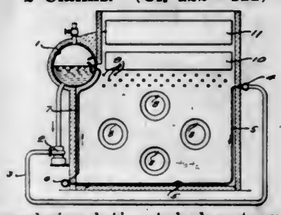
the width of an egg supporting means when said egg supporting means is in an untilted position.

2,170,790

FORCED CIRCULATION VAPOR GENERATOR

Theodor Zwilling, Kiel-Wellingdorf, Germany, assignor to La Mont Corporation, New York, N. Y., a corporation of New York

Application February 14, 1939, Serial No. 256,335
In Germany October 12, 1936
2 Claims. (Cl. 122—411)



2. A forced circulation tubular steam generator comprising a plurality of tube groups connected in series and each group being provided with a distributor and a collector, said tube groups being in heat exchanging relation to a source of steam generating heat and the collector of one group serving as a distributor for the succeeding group in the series, the collector for the last group of the series comprising a drum in which the steam and wtaer separates, a circulating pump having an intake from said drum and having a pressure conduit connected with the initial distributor of said series of tube groups, said groups being so arranged that the tubes in which the water preponderates in the steam and water mixture therein conduct the mixture principally horizontally and the tubes in which the steam preponderates in the steam and water mixture therein conduct the mixture principally upward, the combined collector and distributor which connects the said two groups of tubes being at the lowest point in said tubular generator.

DESIGNS

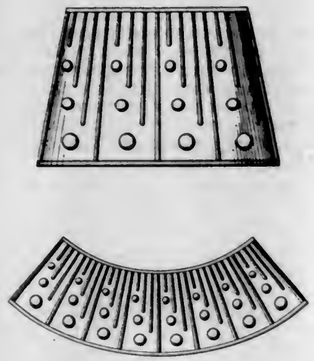
AUGUST 22, 1939

116,211
DESIGN FOR A DISH OR SIMILAR ARTICLE
Grosvenor N. Allen, Oneida, and Pascal L'Anglais, New York, N. Y., assignors to Oneida Ltd., Oneida, N. Y., a corporation of New York
Application June 11, 1938, Serial No. 77,770
Term of patent 7 years



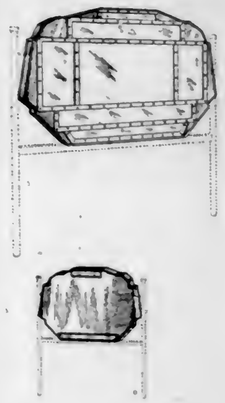
The ornamental design for a dish or similar article, as shown and described.

116,212
DESIGN FOR A LAMP SHADE
Joseph M. Angeletti, New York, N. Y.
Application April 20, 1939, Serial No. 84,411
Term of patent 7 years



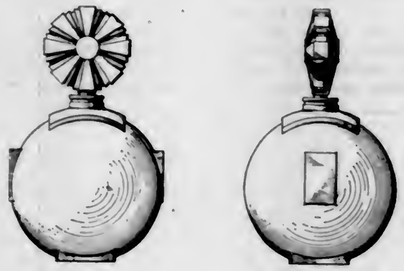
The ornamental design for a lamp shade, as shown.

116,213
DESIGN FOR AN ADVERTISING SIGN
Herbert G. Baumhoff, Washington, D. C.
Application June 30, 1939, Serial No. 85,790
Term of patent 14 years



The ornamental design for an advertising sign, substantially as shown and described.

116,214
DESIGN FOR A BOTTLE OR SIMILAR ARTICLE
Félicie Eugénie Amélie Wanpouille Bergaud, Paris, France
Application June 20, 1939, Serial No. 85,586
Term of patent 7 years



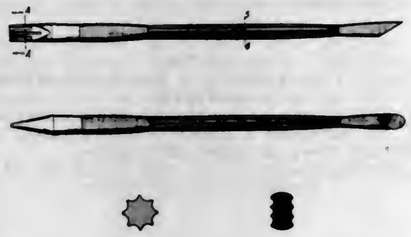
The ornamental design for a bottle or similar article, substantially as shown.

116,215
DESIGN FOR A SLIPPER
Israel Berman, New York, N. Y.
Application July 7, 1939, Serial No. 85,881
Term of patent 3½ years



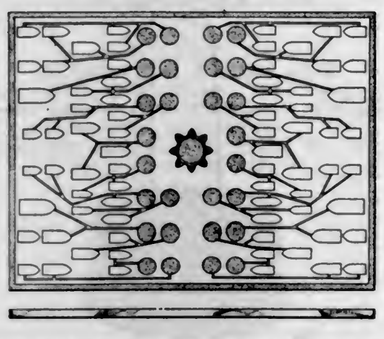
The ornamental design for a slipper, substantially as shown.

116,216
DESIGN FOR A COMBINATION MANICURE APPLICATOR AND CLEANING DEVICE
Marshall T. Brekke, Scarsdale, N. Y., assignor to Northam Warren Corporation, New York, N. Y., a corporation of New York
Application June 26, 1939, Serial No. 85,708
Term of patent 14 years



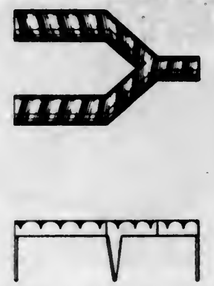
The ornamental design for a combination manicure applicator and cleaning device, as shown.

116,217
DESIGN FOR A GAME BOARD
Simon Paul Butrim, Long Beach, Calif.
Application June 7, 1939, Serial No. 85,386
Term of patent 7 years



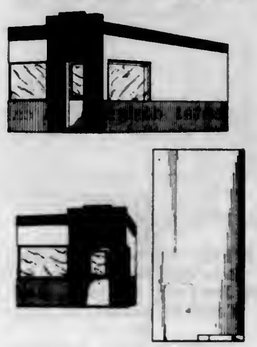
The ornamental design for a game board, as shown.

116,218
DESIGN FOR A DECORATIVE NAIL
Harry Chalfin, New York, N. Y.
Application July 12, 1939, Serial No. 85,956
Term of patent 3½ years



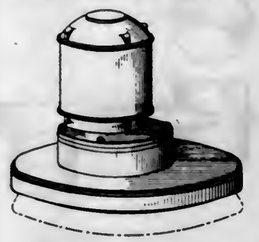
The ornamental design for a decorative nail, substantially as shown.

116,219
DESIGN FOR A BUILDING
Joseph A. Chambers, Memphis, Tenn.
Application May 16, 1939, Serial No. 85,026
Term of patent 14 years



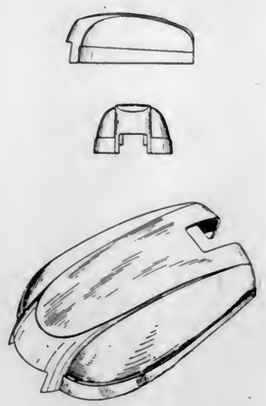
The ornamental design for a building, as shown and described.

116,220
DESIGN FOR A ROTARY FLOOR TREATING MACHINE
Hamilton C. Chase, Sierra Madrea, Calif., assignor to Hubert H. Peterson, Arlington, Va.
Application May 25, 1939, Serial No. 85,203
Term of patent 14 years



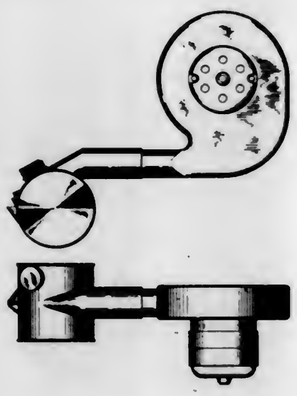
The ornamental design for a rotary floor treating machine, substantially as shown and described.

116,221
DESIGN FOR A CASING FOR SUCTION CLEANERS OR SIMILAR ARTICLES
Henry Dreyfuss, New York, N. Y., assignor to The Hoover Company, North Canton, Ohio, a corporation of Ohio
Application January 25, 1939, Serial No. 82,597
Term of patent 14 years



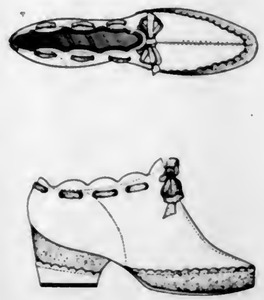
The ornamental design for a casing for suction cleaners or similar articles, substantially as shown.

116,222
DESIGN FOR A SPRAYER OR SIMILAR ARTICLE
Harvey C. J. Eick, Sheboygan Falls, and Christian Behrens, Sheboygan, Wis.
Application January 30, 1939, Serial No. 82,668
Term of patent 3½ years



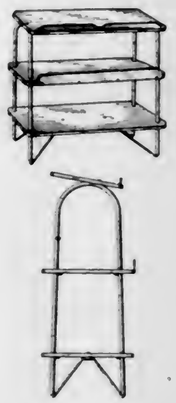
The ornamental design for a sprayer or similar article, as shown.

116,223
DESIGN FOR A SLIPPER
Louis J. Epstein, Jersey City, N. J.
Application June 22, 1939, Serial No. 85,625
Term of patent 3½ years



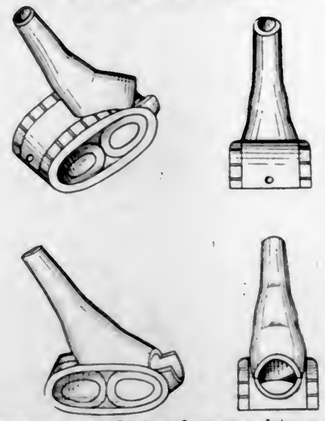
The ornamental design for a slipper, substantially as shown.

116,224
DESIGN FOR A DISPLAY RACK OR SIMILAR ARTICLE
Ernest R. Erickson, Des Moines, Iowa, assignor to C. E. Erickson Company, Incorporated, Des Moines, Iowa, a corporation of Iowa
Application December 12, 1938, Serial No. 81,752
Term of patent 7 years



The ornamental design for a display rack or similar article, substantially as shown.

116,225
DESIGN FOR AN ASHTRAY OR SIMILAR ARTICLE
Horace A. Fuld, New York, N. Y.
Application June 9, 1939, Serial No. 85,415
Term of patent 7 years



The ornamental design for an ashtray or similar article substantially as shown.

116,226
DESIGN FOR A WASTEBASKET OR SIMILAR CONTAINER
William Garten, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del., a corporation of Delaware
Application May 23, 1939, Serial No. 85,149
Term of patent 7 years



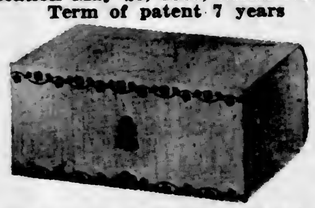
The ornamental design for a wastebasket or similar container, substantially as shown and described.

116,227
DESIGN FOR A CAKE BOX
William Garten, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del., a corporation of Delaware
Application May 23, 1939, Serial No. 85,150
Term of patent 7 years



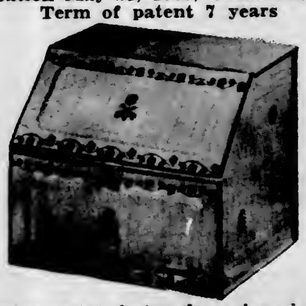
The ornamental design for a cake box, substantially as shown and described.

116,228
DESIGN FOR A BREAD BOX
William Garten, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del., a corporation of Delaware
Application May 23, 1939, Serial No. 85,151
Term of patent 7 years



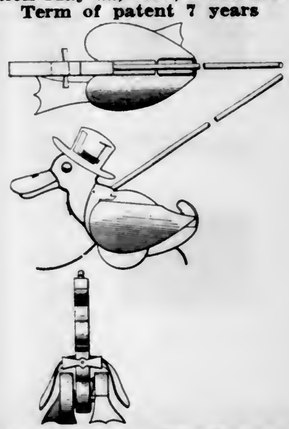
The ornamental design for a bread box, substantially as shown and described.

116,229
DESIGN FOR A BREAD BOX
William Garten, Baltimore, Md., assignor to Owens-Illinois Can Company, Wilmington, Del., a corporation of Delaware
Application May 23, 1939, Serial No. 85,152
Term of patent 7 years



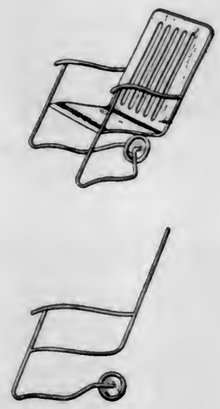
The ornamental design for a bread box, substantially as shown and described.

116,230
DESIGN FOR A TOY
John W. Gibson, Kansas City, Mo., assignor, by direct and mesne assignments, to Jesse V. Kelly, Kansas City, Mo.
Application May 22, 1939, Serial No. 85,114
Term of patent 7 years



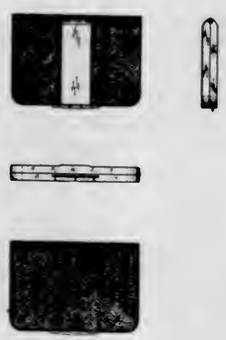
The ornamental design for a toy, as shown.

116,231
DESIGN FOR A CHAIR
William H. Holzinger, Chicago, Ill.
Application June 25, 1938, Serial No. 78,061
Term of patent 3½ years



The ornamental design for a chair, substantially as shown.

116,232
DESIGN FOR A VANITY CASE
Frank McIntosh, New York, N. Y., assignor to Lentheric Incorporated, New York, N. Y., a corporation of New York
Application July 1, 1938, Serial No. 78,205
Term of patent 7 years



The ornamental design for a vanity case, substantially as shown.

116,233
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y.
Application July 13, 1939, Serial No. 85,991
Term of patent 3½ years



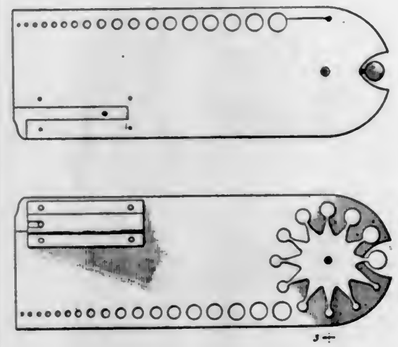
The ornamental design for a brooch or similar article, substantially as shown.

116,234
DESIGN FOR A FUDGE WARMER OR SIMILAR ARTICLE
Franklin R. Lacy, Jr., Chicago, Ill.
Application November 22, 1938, Serial No. 81,280
Term of patent 7 years



The ornamental design for a fudge warmer or similar article, as shown.

116,235
DESIGN FOR A JEWELER'S COMBINATION TOOL
William H. Lehrfeld, Freeport, N. Y.
Application March 20, 1939, Serial No. 83,716
Term of patent 7 years



The ornamental design for a jeweler's combination tool, as shown.

116,236
DESIGN FOR A BOTTLE
Kit C. Love, Muskogee, Okla.
Application June 22, 1939, Serial No. 85,633
Term of patent 14 years



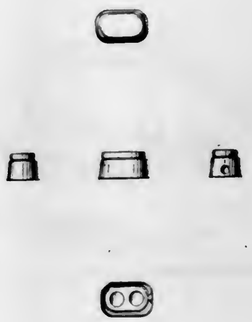
The ornamental design for a bottle, as shown and described.

116,237
DESIGN FOR A FINGER RING
Eugene L. Manchester, North Attleboro, Mass., assignor to Ruel H. Tucker, Brockton, Mass., as trustee
Application July 1, 1939, Serial No. 85,811
Term of patent 14 years



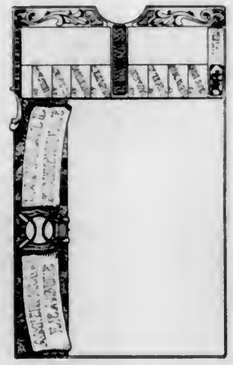
The ornamental design for a finger ring, substantially as shown.

116,238
DESIGN FOR A CUSHION CAP FOR CASH REGISTER CONTROL KEYS
Garry W. Munson, East Orange, N. J.
Application November 25, 1938, Serial No. 81,353
Term of patent 7 years



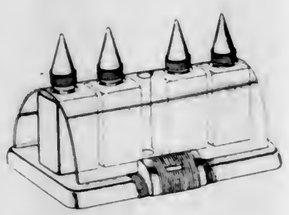
The ornamental design for a cushion cap for cash register control keys, substantially as shown.

116,239
DESIGN FOR A BASEBALL SCHEDULE CARD
Nicholas J. Pauly, Dubuque, Iowa
Application May 5, 1939, Serial No. 84,810
Term of patent 3½ years



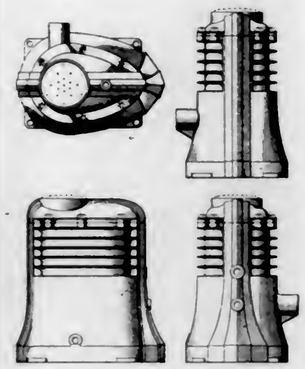
The ornamental design for a baseball schedule card, as shown and described.

116,240
DESIGN FOR A COMBINED MANICURE STAND AND CONTAINERS THEREFOR
William B. Petzold, Pittsfield, Mass., assignor to General Electric Company, a corporation of New York
Application May 13, 1939, Serial No. 84,979
Term of patent 14 years



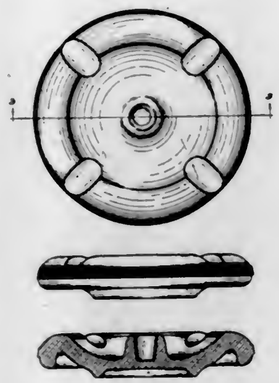
The ornamental design for a combined manicure stand and containers therefor, as shown and described.

116,241
DESIGN FOR A COMPRESSOR CASING
Adelbert C. Radtke, Forest Park, Ill., assignor to Sears Roebuck and Co., Chicago, Ill., a corporation of New York
Application January 3, 1939, Serial No. 82,123
Term of patent 3½ years



The ornamental design for a compressor casing, substantially as shown.

116,242
DESIGN FOR A COMBINED ASHTRAY AND CANDLE HOLDER OR SIMILAR ARTICLE
Henry Rithner, Wellsburg, W. Va.
Application June 21, 1939, Serial No. 85,605
Term of patent 7 years



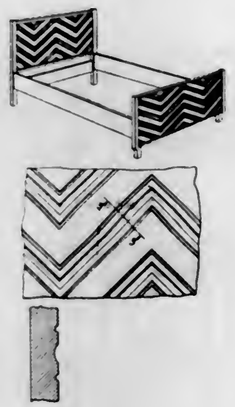
The ornamental design for a combined ashtray and candle holder or similar article, substantially as shown.

116,243
DESIGN FOR A METAL TRAY
Louis M. Schnitzer, New York, N. Y.
Application May 24, 1939, Serial No. 85,175
Term of patent 3½ years



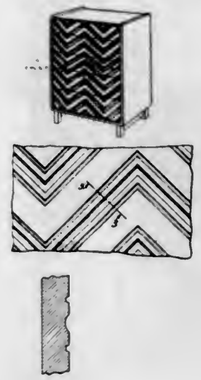
The ornamental design for a metal tray, as shown.

116,244
DESIGN FOR A BEDSTEAD
Sarah P. Shurcliff, New York, N. Y., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application December 9, 1938, Serial No. 81,669
Term of patent 3½ years



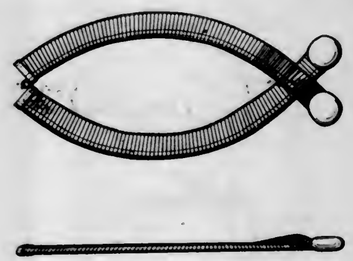
The ornamental design for a bedstead, substantially as shown.

116,245
DESIGN FOR A CHEST
Sarah P. Shurcliff, New York, N. Y., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application December 9, 1938, Serial No. 81,670
Term of patent 3½ years



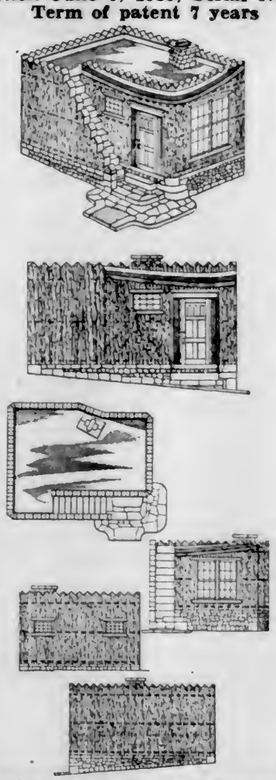
The ornamental design for a chest, substantially as shown.

116,246
DESIGN FOR A FLEXIBLE NECKPIECE
Max Silverman, New York, N. Y.
Application July 12, 1939, Serial No. 85,957
Term of patent 3½ years



The ornamental design for a flexible neckpiece, substantially as shown.

116,247
DESIGN FOR A DWELLING
Otto Murray Summers, Glasgow, Ky.
Application June 9, 1939, Serial No. 85,413
Term of patent 7 years



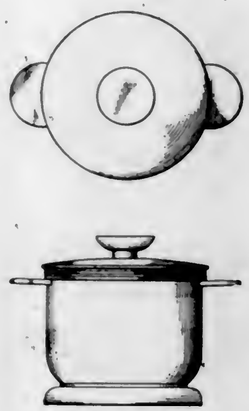
The ornamental design for a dwelling, as shown.

116,248
DESIGN FOR A COFFEEPOT OR SIMILAR ARTICLE
Frederick W. Stark, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application April 8, 1939, Serial No. 84,148
Term of patent 14 years



The ornamental design for a coffeepot or similar article, as shown.

116,249
DESIGN FOR A SUGAR BOWL OR SIMILAR ARTICLE
Frederick W. Stark, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application April 8, 1939, Serial No. 84,149
Term of patent 14 years



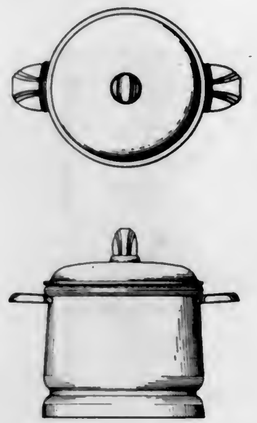
The ornamental design for a sugar bowl or similar article, as shown.

116,250
DESIGN FOR A COFFEEPOT OR SIMILAR ARTICLE
Frederick W. Stark, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application April 8, 1939, Serial No. 84,150
Term of patent 14 years



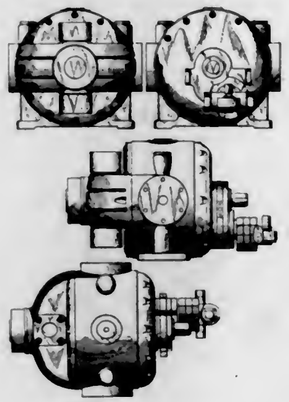
The ornamental design for a coffeepot or similar article, as shown.

116,251
DESIGN FOR A SUGAR BOWL OR SIMILAR ARTICLE
Frederick W. Stark, Meriden, Conn., assignor to International Silver Company, Meriden, Conn., a corporation of New Jersey
Application April 8, 1939, Serial No. 84,151
Term of patent 14 years



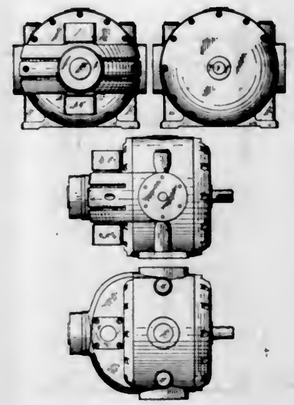
The ornamental design for a sugar bowl or similar article, as shown.

116,252
DESIGN FOR A RADIAL PUMP UNIT
Harold Van Doren, Toledo, and George Geiger, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application March 6, 1939, Serial No. 83,362
Term of patent 14 years



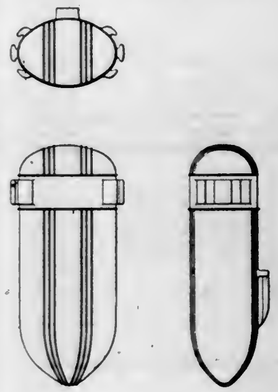
The ornamental design for a radial pump unit, as shown.

116,253
DESIGN FOR A RADIAL PUMP
Harold Van Doren, Toledo, and George Geiger, Mount Gilead, Ohio, assignors to The Hydraulic Development Corporation, Inc., Wilmington, Del., a corporation of Delaware
Application March 6, 1939, Serial No. 83,363
Term of patent 7 years



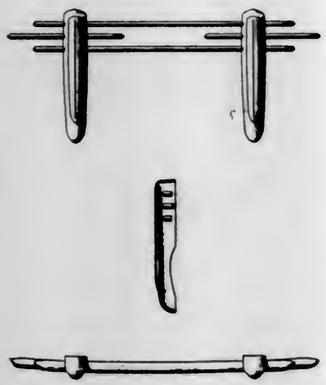
The ornamental design for a radial pump, as shown.

116,254
DESIGN FOR A COMBINED TOOTH POWDER DISPENSER AND TOOTH BRUSH HOLDER
Alfred A. Anthony, New York, N. Y.
Application June 23, 1938, Serial No. 78,002
Term of patent 7 years



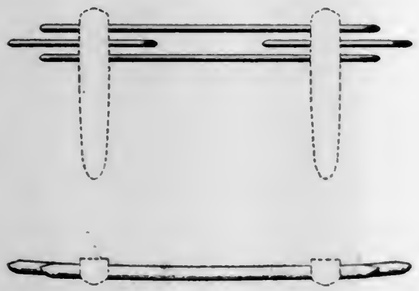
The ornamental design for a combined tooth powder dispenser and tooth brush holder substantially as shown.

116,255
DESIGN FOR A GRILLE GUARD
Gustave F. Bahr, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application June 7, 1939, Serial No. 85,380
Term of patent 14 years



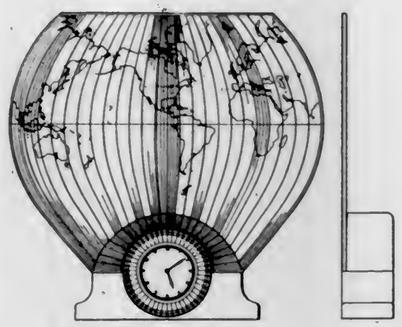
The ornamental design for a grille guard, as shown.

116,256
DESIGN FOR A GRILLE GUARD
Gustave F. Bahr, Bridgeport, Conn., assignor to Casco Products Corporation, Bridgeport, Conn., a corporation of Connecticut
Application June 7, 1939, Serial No. 85,381
Term of patent 14 years



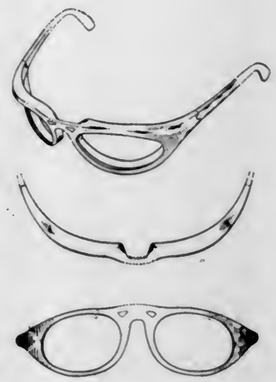
The ornamental design for a grille guard, as shown and described.

116,257
DESIGN FOR A CLOCK
Leo Y. Booharin, San Francisco, Calif., assignor of one-fourth to William J. Delaney, one-fourth to Perry W. Wood, and one-fourth to Charles F. Attinger
Application June 17, 1939, Serial No. 85,536
Term of patent 14 years



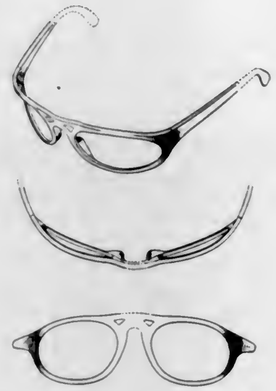
The ornamental design for a clock, as shown.

116,258
DESIGN FOR AN OPHTHALMIC MOUNTING
Roland T. Cook, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 3, 1938, Serial No. 81,543
Term of patent 14 years



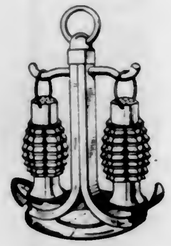
The ornamental design for an ophthalmic mounting, substantially as shown and described.

116,259
DESIGN FOR AN OPHTHALMIC MOUNTING
Roland T. Cook, Southbridge, Mass., assignor to American Optical Company, Southbridge, Mass., a voluntary association of Massachusetts
Application December 3, 1938, Serial No. 81,544
Term of patent 14 years



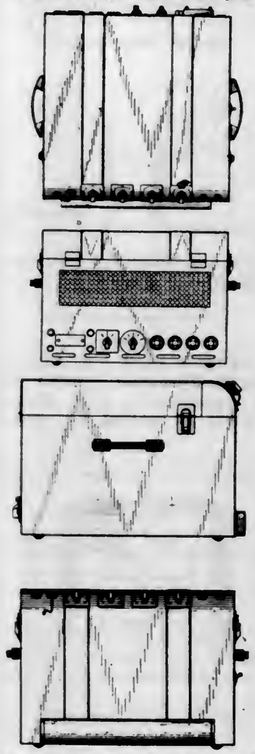
The ornamental design for an ophthalmic mounting, substantially as shown and described.

116,260
DESIGN FOR A COMBINED SALT SHAKER, PEPPER SHAKER AND STAND THEREFOR
Harry Dearling, New York, N. Y., assignor to Metalfield Incorporated, New York, N. Y., a corporation of New York
Application April 25, 1939, Serial No. 84,539
Term of patent 3½ years



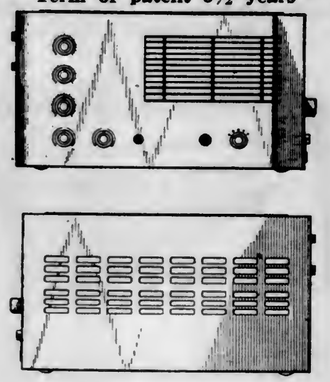
The ornamental design for a combined salt shaker, pepper shaker and stand therefor, substantially as shown.

116,261
DESIGN FOR AN AMPLIFIER OR THE LIKE
Peter J. Faber, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application July 3, 1939, Serial No. 85,828
Term of patent 3½ years

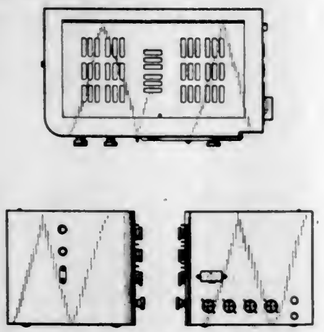


The ornamental design for an amplifier or the like, substantially as shown.

116,262
DESIGN FOR AN AMPLIFIER OR THE LIKE
Peter J. Faber, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application July 3, 1939, Serial No. 85,829
Term of patent 3½ years

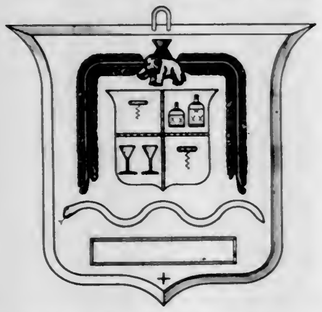


116,262—Continued



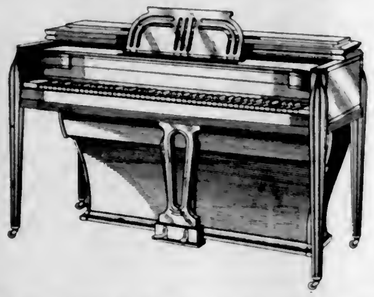
The ornamental design for an amplifier or the like, substantially as shown.

116,263
DESIGN FOR A PLAQUE
Murd M. Ferguson, Detroit, Mich.
Application September 3, 1938, Serial No. 79,743
Term of patent 3½ years



The ornamental design for a plaque, substantially as shown.

116,264
DESIGN FOR A PIANO
Henry R. Heller, New York, N. Y., assignor to Winter & Co., New York, N. Y., a corporation of New York
Application February 19, 1938, Serial No. 75,285
Term of patent 3½ years



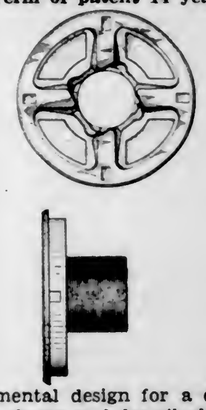
The ornamental design for a piano, as shown.

116,265
DESIGN FOR A PIANO MUSIC RACK
Henry R. Heller, New York, N. Y., assignor to Winter & Co., New York, N. Y., a corporation of New York
Application February 28, 1938, Serial No. 75,466
Term of patent 3½ years



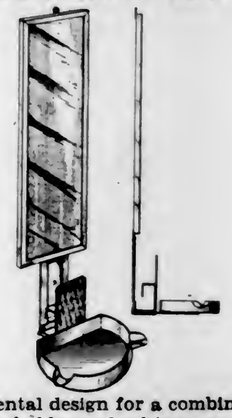
The ornamental design for a piano music rack, as shown.

116,266
DESIGN FOR A DIE HEAD
Carl H. Ingwer and Clyde E. Wright, Elyria, Ohio
Application December 12, 1938, Serial No. 81,712
Term of patent 14 years



The ornamental design for a die head, substantially as shown and described.

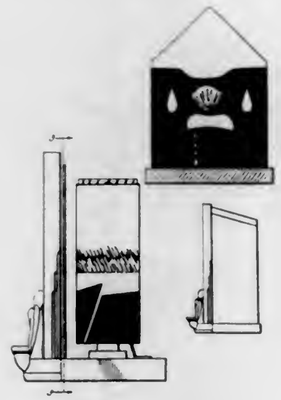
116,267
DESIGN FOR A COMBINATION MIRROR, MATCH BOX HOLDER AND ASHTRAY
John Kay, La Porte, Ind.
Application May 19, 1939, Serial No. 85,082
Term of patent 7 years



The ornamental design for a combination mirror, match box holder and ashtray, as shown.

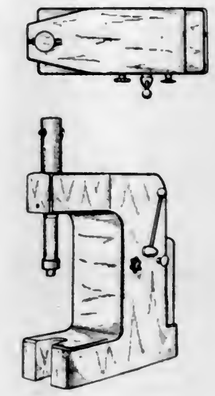
116,268
DESIGN FOR AN ANIMATED DECORATIVE LAMP
Aubrey B. Leech, Los Angeles, Calif.
Application March 12, 1938, Serial No. 75,777
Term of patent 14 years





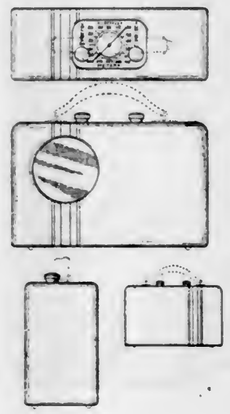
The ornamental design for an animated decorative lamp, as shown and described.

116,269
DESIGN FOR AN ARBOR PRESS
Siegmund Mandl, Milwaukee, Wis., assignor to Blackhawk Mfg. Co., Milwaukee, Wis., a corporation of Wisconsin
Application June 14, 1939, Serial No. 85,487
Term of patent 7 years



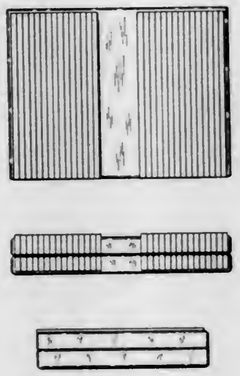
The ornamental design for an arbor press, as shown.

116,270
DESIGN FOR A PORTABLE RADIO RECEIVER
Harold C. Mattes, Chicago, Ill., assignor to Belmont Radio Corporation, Chicago, Ill., a corporation of Illinois
Application May 10, 1939, Serial No. 84,917
Term of patent 3½ years



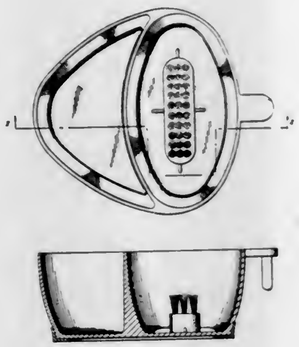
The ornamental design for a portable radio receiver, substantially as shown and described.

116,271
DESIGN FOR A BOX
Frank McIntosh, New York, N. Y., assignor to Lentheric Incorporated, New York, N. Y., a corporation of New York
Application July 1, 1938, Serial No. 78,203
Term of patent 7 years



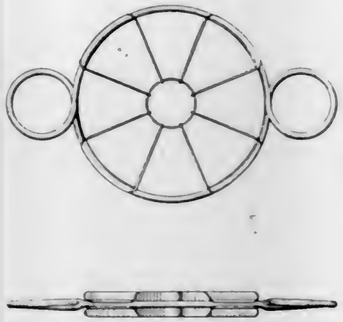
The ornamental design for a box, substantially as shown and described.

116,272
DESIGN FOR A COMBINED MANICURE BOWL AND BRUSH
Margaret McKeen, Los Angeles, Calif.
Application July 30, 1938, Serial No. 78,984
Term of patent 3½ years



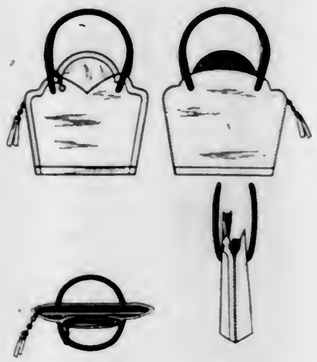
The ornamental design for a combined manicure bowl and brush, as shown and described.

116,273
DESIGN FOR A COMBINED APPLE SLICER AND CORER
Theodore William Moore, Riverside, Conn.
Application January 24, 1939, Serial No. 82,566
Term of patent 3½ years



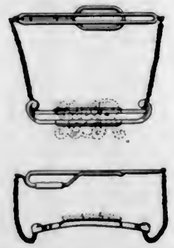
The ornamental design for a combined apple slicer and corer, as shown.

116,274
DESIGN FOR A HANDBAG
Samuel Nathan, Allentown, Pa.
Application June 1, 1939, Serial No. 85,293
Term of patent 3½ years



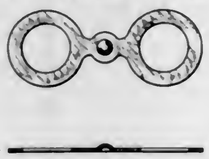
The ornamental design for a handbag, substantially as shown and described.

116,275
DESIGN FOR A MONOGRAMMED NECKTIE FASTENER OR SIMILAR ARTICLE
Charles Silverman, Providence, R. I.
Application March 25, 1939, Serial No. 83,824
Term of patent 3½ years



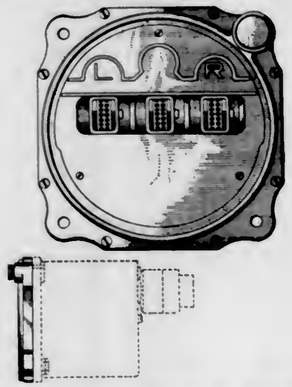
The ornamental design for a monogrammed necktie fastener or similar article, as shown.

116,276
DESIGN FOR A BRACE CONNECTOR
Lawrence E. Baer, Attleboro, Mass., assignor to Swank Products, Inc., a corporation of Delaware
Application July 18, 1938, Serial No. 78,554
Term of patent 14 years



The ornamental design for a brace connector, substantially as shown and described.

116,277
DESIGN FOR AN AIRCRAFT LANDING WHEEL POSITION INDICATOR
Paul F. Bechberger, West Hempstead, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Application January 12, 1939, Serial No. 82,317
Term of patent 14 years



The ornamental design for an aircraft landing wheel position indicator, as shown and described.

116,278
DESIGN FOR AN EVENING GOWN
Harry Berman, New York, N. Y.
Application July 20, 1939, Serial No. 86,090
Term of patent 3½ years



The ornamental design for an evening gown, substantially as shown.

116,279
DESIGN FOR AN EVENING GOWN
Harry Berman, New York, N. Y.
Application July 20, 1939, Serial No. 86,091
Term of patent 3½ years



The ornamental design for an evening gown, substantially as shown.

116,280
DESIGN FOR AN EVENING GOWN
Harry Berman, New York, N. Y.
Application July 20, 1939, Serial No. 86,092
Term of patent 3½ years



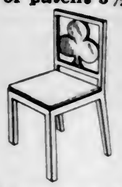
The ornamental design for an evening gown, substantially as shown.

116,281
DESIGN FOR A CONSOLE BAR CELLARETTE
David Dillon, New York, N. Y.
Application October 19, 1937, Serial No. 72,307
Term of patent 3½ years



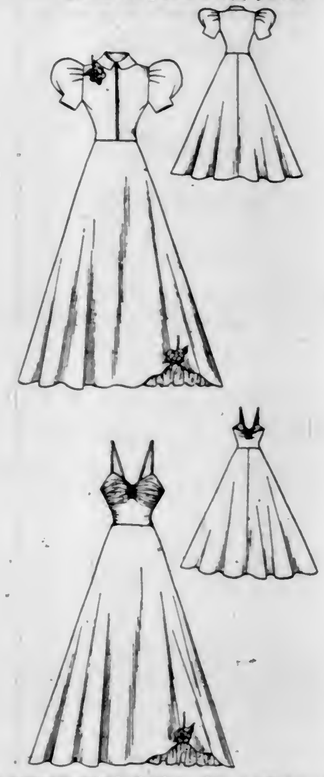
The ornamental design for a console bar cellarette, substantially as shown and described.

116,282
DESIGN FOR A BRIDGE CHAIR
David Dillon, New York, N. Y.
Application October 19, 1937, Serial No. 72,309
Term of patent 3½ years



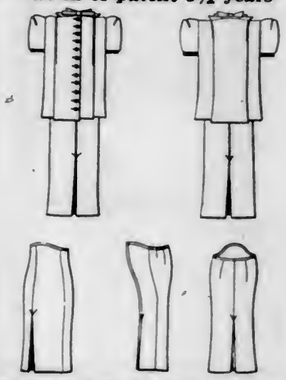
The ornamental design for a bridge chair, substantially as shown.

116,283
DESIGN FOR A DRESS ENSEMBLE
Alice Engel, New York, N. Y.
Application June 10, 1939, Serial No. 85,444
Term of patent 3½ years



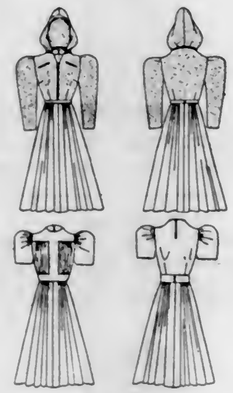
The ornamental design for a dress ensemble, substantially as shown.

116,284
DESIGN FOR A DRESS
Eloise H. Glover, Sanford, N. C.
Application April 7, 1939, Serial No. 84,109
Term of patent 3½ years



The ornamental design for a dress, as shown.

116,285
DESIGN FOR A DRESS ENSEMBLE
Ruth Haon, New York, N. Y.
Application June 14, 1939, Serial No. 85,480
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

116,286
DESIGN FOR A COAT
David Kaplan, New York, N. Y.
Application June 10, 1939, Serial No. 85,438
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

116,287
DESIGN FOR A COAT
David Kaplan, New York, N. Y.
Application June 10, 1939, Serial No. 85,439
Term of patent 3½ years



The ornamental design for a coat, substantially as shown.

116,288
DESIGN FOR A BRACELET
Adolph Katz, New York, N. Y., assignor to Cohn Rosenberger, Inc., New York, N. Y.
Application July 21, 1939, Serial No. 86,154
Term of patent 3½ years





The ornamental design for a bracelet, substantially as shown.

116,289
DESIGN FOR A BROOCH OR SIMILAR ARTICLE
Adolph Katz, New York, N. Y., assignor to Cohn Rosenberger, Inc., New York, N. Y.
Application July 21, 1939, Serial No. 86,155
Term of patent 3½ years



The ornamental design for a brooch or similar article, substantially as shown.

116,290
DESIGN FOR A PIN CLIP
Jacques H. Leff, New York, N. Y.
Application July 21, 1939, Serial No. 86,156
Term of patent 3½ years





The ornamental design for a pin clip, substantially as shown.

116,291
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 21, 1939, Serial No. 86,147
Term of patent 3½ years





The ornamental design for a pin clip, substantially as shown.

116,292
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 21, 1939, Serial No. 86,148
Term of patent 3½ years





The ornamental design for a pin clip, substantially as shown.

116,293
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 21, 1939, Serial No. 86,149
Term of patent 3½ years





The ornamental design for a pin clip, substantially as shown.

116,294
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 21, 1939, Serial No. 86,150
Term of patent 3½ years





The ornamental design for a pin clip, substantially as shown.

116,295
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 21, 1939, Serial No. 86,151
Term of patent 3½ years





The ornamental design for a pin clip, substantially as shown.

116,296
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 21, 1939, Serial No. 86,152
Term of patent 3½ years





The ornamental design for a pin clip, substantially as shown.

116,297
DESIGN FOR A PIN CLIP
Alfred Philippe, New York, N. Y.
Application July 21, 1939, Serial No. 86,153
Term of patent 3½ years





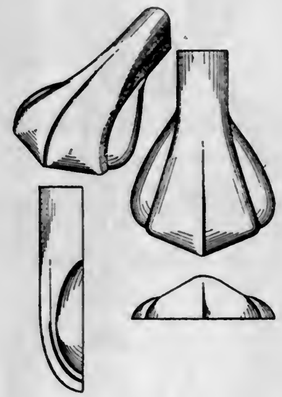
The ornamental design for a pin clip, substantially as shown.

116,298
DESIGN FOR A COAT
Milton G. Rosenfeld, St. Louis, Mo.
Application July 22, 1939, Serial No. 86,172
Term of patent 3½ years



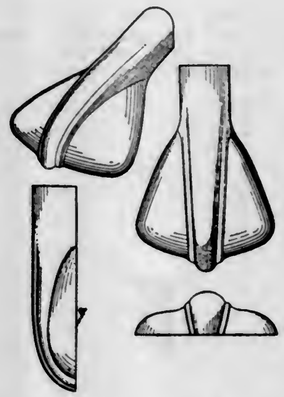
The ornamental design for a coat, substantially as shown.

116,299
DESIGN FOR AN EXHAUST PIPE EXTENSION
Linus E. Russell, Springfield, Ohio, assignor to Peters and Russell, Inc., Springfield, Ohio, a corporation of Ohio
Application May 10, 1939, Serial No. 84,910
Term of patent 7 years



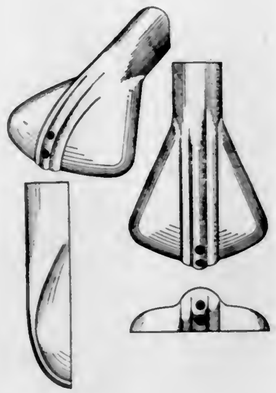
The ornamental design for an exhaust pipe extension, substantially as shown.

116,300
DESIGN FOR AN EXHAUST PIPE EXTENSION
Linus E. Russell, Springfield, Ohio, assignor to Peters and Russell, Inc., Springfield, Ohio, a corporation of Ohio
Application May 10, 1939, Serial No. 84,911
Term of patent 7 years



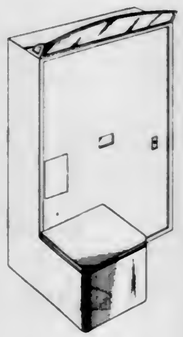
The ornamental design for an exhaust pipe extension, substantially as shown.

116,301
DESIGN FOR AN EXHAUST PIPE EXTENSION
Linus E. Russell, Springfield, Ohio, assignor to Peters and Russell, Inc., Springfield, Ohio, a corporation of Ohio
Application May 10, 1939, Serial No. 84,912
Term of patent 7 years



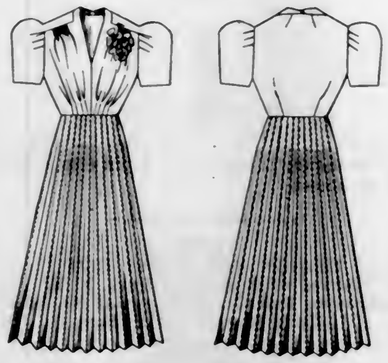
The ornamental design for an exhaust pipe extension, substantially as shown.

116,302
DESIGN FOR A WEIGHING SCALE
Henry Unschuld, Chicago, Ill.
Application May 16, 1939, Serial No. 85,027
Term of patent 7 years



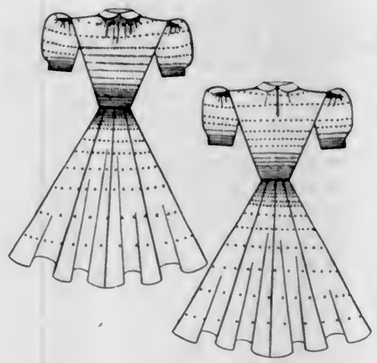
The ornamental design for a weighing scale, as shown.

116,303
DESIGN FOR A DRESS
Philip Zahn, New York, N. Y.
Application May 8, 1939, Serial No. 84,853
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,304
DESIGN FOR A DRESS
Edna Breer, New York, N. Y.
Application July 25, 1939, Serial No. 86,224
Term of patent 3½ years



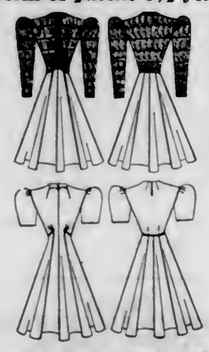
The ornamental design for a dress, substantially as shown.

116,305
DESIGN FOR A DRESS
Edna Breer, New York, N. Y.
Application July 25, 1939, Serial No. 86,225
Term of patent 3½ years



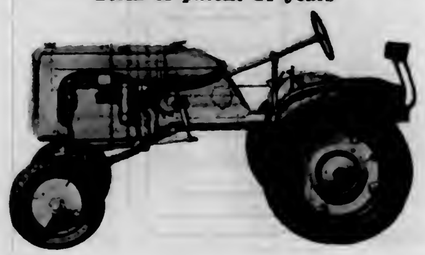
The ornamental design for a dress, substantially as shown.

116,306
DESIGN FOR A DRESS ENSEMBLE
Edna Breer, New York, N. Y.
Application July 25, 1939, Serial No. 86,226
Term of patent 3½ years



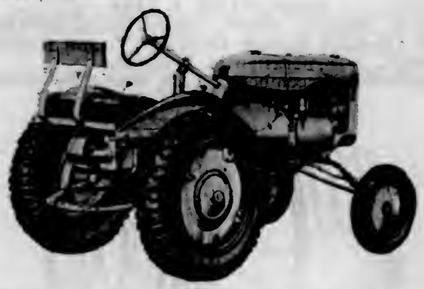
The ornamental design for a dress ensemble, substantially as shown.

116,307
DESIGN FOR A TRACTOR
Verne F. Hobbs, Milwaukee, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application January 30, 1939, Serial No. 82,679
Term of patent 14 years



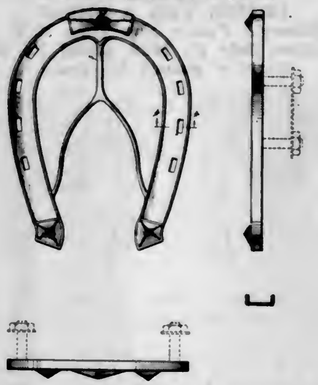
The ornamental design for a tractor, as shown.

116,307—Continued



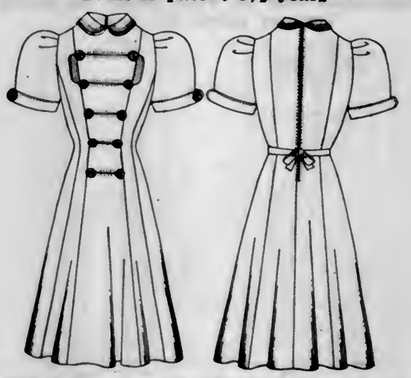
The ornamental design for a tractor, as shown.

116,308
DESIGN FOR A BUMPER GUARD
William C. Huber, Chicago, Ill.
Application May 23, 1939, Serial No. 85,168
Term of patent 14 years



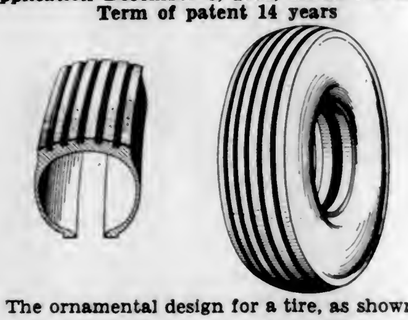
The ornamental design for a bumper guard, as shown.

116,309
DESIGN FOR A DRESS
Jacob J. Kushner, New York, N. Y.
Application July 26, 1939, Serial No. 86,241
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,310
DESIGN FOR A TIRE
Roy C. Murphy, Grand Rapids, Mich., assignor to Corduroy Rubber Company, Grand Rapids, Mich., a corporation of Delaware
Application December 5, 1938, Serial No. 81,586
Term of patent 14 years



The ornamental design for a tire, as shown.

116,311
DESIGN FOR A DRESS
Sidney J. Poster, New York, N. Y.
Application July 17, 1939, Serial No. 86,048
Term of patent 3½ years



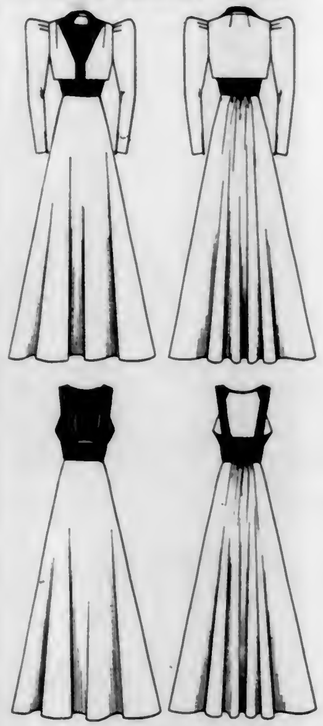
The ornamental design for a dress, substantially as shown.

116,312
DESIGN FOR A DRESS
David William Price, New York, N. Y.
Application July 24, 1939, Serial No. 86,196
Term of patent 3½ years



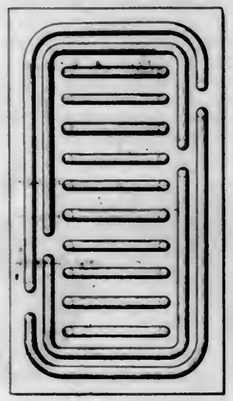
The ornamental design for a dress, substantially as shown.

116,313
DESIGN FOR A DRESS ENSEMBLE
Lillian Gates Rizzak, New York, N. Y.
Application July 1, 1939, Serial No. 85,791
Term of patent 3½ years

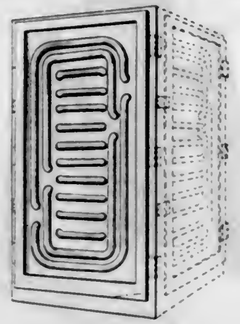


The ornamental design for a dress ensemble, substantially as shown.

116,314
DESIGN FOR AN ELECTRIC TRAFFIC TIMING SIGNAL
John J. Roberts, Louisville, Ky.
Application June 13, 1938, Serial No. 77,810
Term of patent 14 years

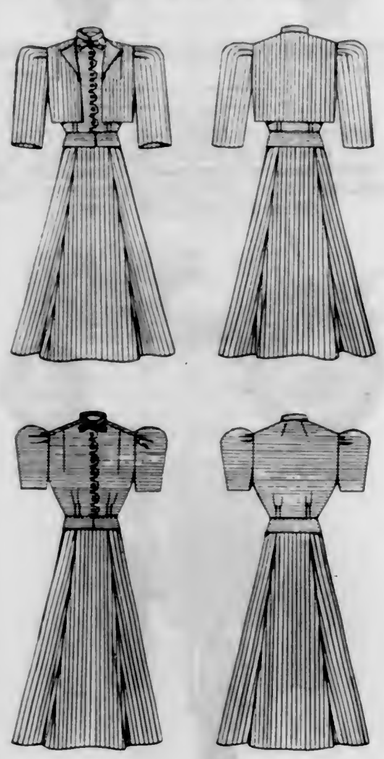


116,314—Continued



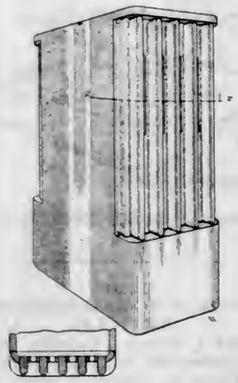
The ornamental design for an electric traffic timing signal, as shown and described.

116,315
DESIGN FOR A DRESS ENSEMBLE
Harry Roher, New York, N. Y.
Application July 17, 1939, Serial No. 86,049
Term of patent 3½ years



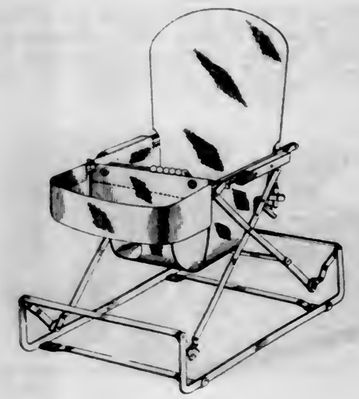
The ornamental design for a dress ensemble, substantially as shown.

116,316
DESIGN FOR A LOUDSPEAKER CABINET
Alvin W. Wells, Chicago, Ill., assignor of one-half to Jewell W. Wells, Decatur, Ill.
Application December 29, 1938, Serial No. 82,039
Term of patent 14 years

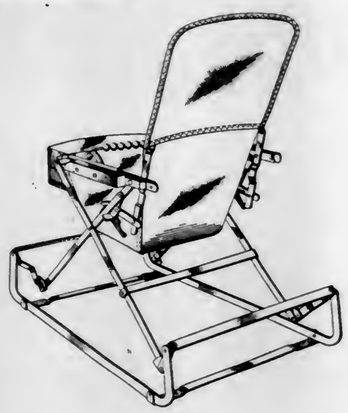


The ornamental design for a loudspeaker cabinet, substantially as shown and described.

116,317
DESIGN FOR A BABY SWING
Albert D. Welsh, Ladue, Mo.
Application May 1, 1939, Serial No. 84,712
Term of patent 14 years

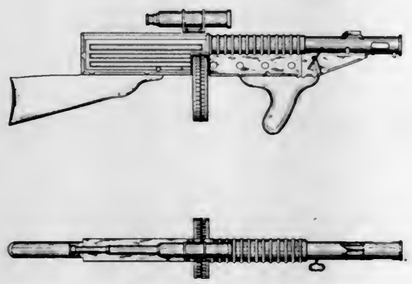


116,317—Continued



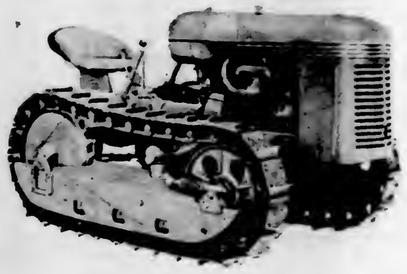
The ornamental design for a baby swing, as shown.

116,318
DESIGN FOR A TOY GUN OR SIMILAR ARTICLE
Samuel I. Berger, Newark, N. J.
Application September 13, 1937, Serial No. 71,579
Term of patent 7 years



The ornamental design for a toy gun or similar article, as shown.

116,319
DESIGN FOR A CRAWLER TRACTOR
James G. Heaslet, Hudson, Ohio, assignor to The Cleveland Tractor Company, Cleveland, Ohio
Application April 10, 1939, Serial No. 84,175
Term of patent 7 years



116,319—Continued



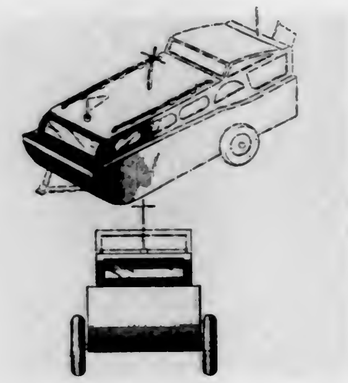
The ornamental design for a crawler tractor, as shown.

116,320
DESIGN FOR A WHEEL TRACTOR
James G. Heaslet, Hudson, Ohio, assignor to The Cleveland Tractor Company, Cleveland, Ohio
Application April 10, 1939, Serial No. 84,176
Term of patent 7 years



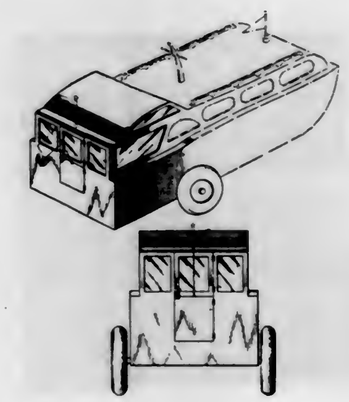
The ornamental design for a wheel tractor, as shown.

116,321
DESIGN FOR A TRAILER
Walker L. C. Huxter, Richmond, Va.
Application June 24, 1938, Serial No. 78,036
Term of patent 14 years



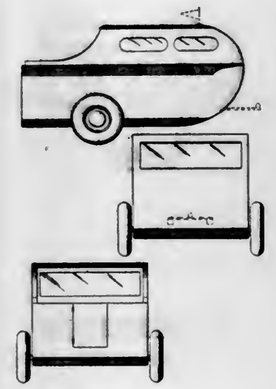
The ornamental design for a trailer, as shown and described.

116,322
DESIGN FOR A TRAILER
Walker L. C. Huxter, Richmond, Va.
Application June 24, 1938, Serial No. 78,037
Term of patent 14 years



The ornamental design for a trailer, as shown and described.

116,323
DESIGN FOR A TRAILER
Walker L. C. Huxter, Richmond, Va.
Application May 16, 1939, Serial No. 85,023
Term of patent 14 years



The ornamental design for a trailer, as shown and described.

116,324
DESIGN FOR A CHARM OR THE LIKE
Walter Lampl, New York, N. Y.
Application April 28, 1938, Serial No. 76,837
Term of patent 7 years



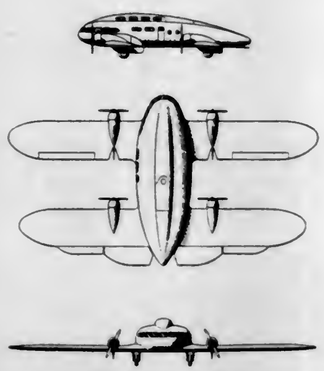
The ornamental design for a charm or the like, as shown.

116,325
DESIGN FOR A GAME COUNTER
Owen Walter Ryan, New York, N. Y.
Application November 7, 1938, Serial No. 80,917
Term of patent 3½ years



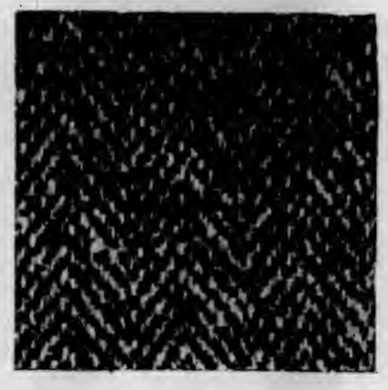
The ornamental design for a game counter, substantially as shown.

116,326
DESIGN FOR AN AIRPLANE
Peter S. L. West, Brooklyn, N. Y.
Application June 28, 1939, Serial No. 85,744
Term of patent 14 years



The ornamental design for an airplane, as shown and described.

116,327
DESIGN FOR A TEXTILE FABRIC
Louis Bry, New York, N. Y.
Application March 29, 1939, Serial No. 83,897
Term of patent 14 years



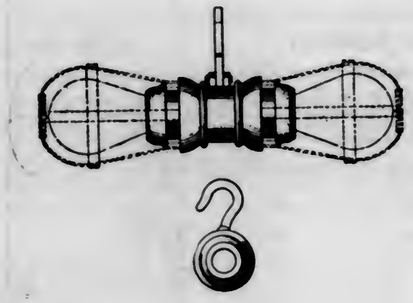
The ornamental design for a textile fabric, substantially as shown and described.

116,328
DESIGN FOR A TEXTILE FABRIC
Abe Tillman, New York, N. Y.
Application June 27, 1939, Serial No. 85,721
Term of patent 3½ years



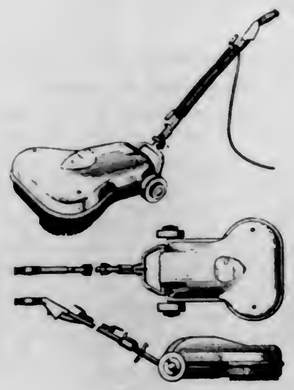
The ornamental design for a textile fabric, substantially as shown.

116,329
DESIGN FOR AN ELECTRICIAN'S TEST SET
Alexander J. Heidt, Woodhaven, N. Y.
Application June 23, 1938, Serial No. 78,001
Term of patent 14 years



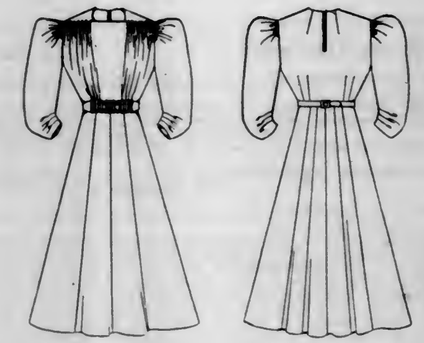
The ornamental design for an electrician's test set, as shown.

116,330
DESIGN FOR A COMBINED FLOOR SCRUBBING AND POLISHING MACHINE
Rudolph A. Posch, near Lees Summit, Mo., assignor to Hillyard Chemical Company, St. Joseph, Mo.
Application March 30, 1939, Serial No. 83,922
Term of patent 14 years



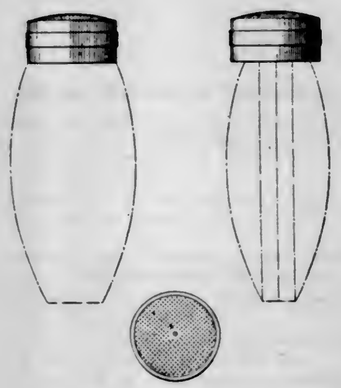
The ornamental design for a combined floor scrubbing and polishing machine, as shown.

116,331
DESIGN FOR A DRESS
David William Price, New York, N. Y.
Application July 24, 1939, Serial No. 86,197
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,332
DESIGN FOR A SHAVING DEVICE
Archie M. Andrews, Greenwich, Conn.; Eleanor U. Andrews, executrix of said Archie M. Andrews, deceased
Application March 7, 1938, Serial No. 75,653
Term of patent 14 years



The ornamental design for a shaving device, substantially as shown and described.

Patents Nos. 2,170,791 to 2,171,515

THE OFFICIAL GAZETTE

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CONTENTS

	Page
Issue of August 29, 1939	1019
Notices of Cancellation	1019
Adverse Decisions in Interference	1019
Notice	1019
Applications Under Examination	1020
Decisions of the U. S. Courts—	
Hill and Hey v. Casler and Vorech	1021
In re Osterstrom	1022
In re Earle and Steinmayer	1025
In re Pirani and West	1028
Patent Suits	1029
Trade-Mark Registrations Canceled	1030
Disclaimer	1030
Bulletin of Decisions of Patent Office on Trade-Marks, Labels, and Prints	1031
Trade-Marks Published (185 Applications)	1035
Trade-Mark Registrations Granted	1058
Trade-Mark Registrations Renewed	1070
Labels	1071
Prints	1072
Reissues	1073
Patents Granted	1076
Designs	1245

August 29, 1939

Trade-Marks	292—No.	370,382 to No.	370,673, inclusive
T. M. Renewals	27		
Labels	33—No.	53,428 to No.	53,460, inclusive.
Prints	16—No.	17,542 to No.	17,557, inclusive.
Reissues	11—No.	21,182 to No.	21,192, inclusive.
Patents	725—No.	2,170,791 to No.	2,171,515, inclusive.
Designs	106—No.	116,333 to No.	116,438, inclusive.
Total	1,210		

Notices of Cancellation

U. S. Patent Office, *Washington, D. C., Aug. 4, 1939.*

The Don-O-Lac Co. Inc., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of O-Cedar Corp'n., 4501 South Western Avenue, Chicago, Ill., to effect the cancellation of trade-mark registration No. 213,409, issued May 25, 1926, to The Don-O-Lac Co. Inc., 770 Exchange Street, Rochester, N. Y., and a notice of such proceeding sent by registered mail to said The Don-O-Lac Co. Inc. at said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Don-O-Lac Co. Inc., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., Aug. 4, 1939.*

The Thompson-Denton Co., its assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of O-Cedar Corp'n., 4501 South Western Avenue, Chicago, Ill., to effect the cancellation of trade-mark registration No. 147,523, issued October 18, 1921, to The Thompson-Denton Co., 2934 First Avenue, Seattle, Wash., and a notice of such proceeding sent by registered mail to said The Thompson-Denton Co. at said address having been returned by the post office as undeliverable, notice is hereby given that unless said The Thompson-Denton Co., its assigns or legal representatives, shall enter an appearance therein within thirty days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

U. S. Patent Office, *Washington, D. C., Aug. 8, 1939.*

Samuel S. Klein, his assigns or legal representatives, take notice:

A cancellation proceeding having been instituted by this Office upon the application of Caron Corporation, 389 Fifth Avenue, New York, N. Y., to effect the cancellation of trade-mark registration No. 300,904, issued February 14, 1933, to Samuel S. Klein, 1274 Fifty-sixth Street, Brooklyn, N. Y., and a notice of such proceeding sent by registered mail to said Klein at said address having been returned by the post office as undeliverable, notice is hereby given that unless said Samuel S. Klein, his assigns or legal representatives, shall enter an appearance therein within 30 days from the first publication of this order the cancellation will be proceeded with as in case of default. This notice will be published in the Official Gazette for three consecutive weeks.

JUSTIN W. MACKLIN,
First Assistant Commissioner.

Adverse Decisions in Interference

In interferences involving the indicated claims of the following patents final decisions have been rendered that the respective patentees were not the first inventors with respect to the claims listed:

Pat. 2,022,583, R. N. Bicknell, Regulating valve for refrigerating systems, decided July 10, 1939, claims 2 and 3.

Pat. 2,030,805, Kurt Wiegand, Gaseous electric discharge lamp, decided December 15, 1938, claim 1.

Pat. 2,071,509, W. L. Dudley, Cooling system, decided July 6, 1939, claims 1 and 2.

Pat. 2,126,464, Laurens Hammond, Electrical musical instrument, decided July 18, 1939, claim 46.

Pat. 2,144,337, W. R. Koch, Electrical device, decided August 4, 1939, claims 2 and 4.

Notice

See pages immediately following index of inventions for changes in Patent Laws.

Condition of Applications Under Examination at Close of Business Aug. 12, 1939

(Total number of applications awaiting action, excluding Trade-Mark Division, 46,701; Trade-Mark Division, 1,388. Oldest new case, Jan. 13, 1939; oldest amended, Jan. 11, 1939.)

Room No.	Divisions, Examiners, and Subjects of Inventions	Oldest new application and oldest action by applicant awaiting office action: New	Amended	No. of applications awaiting action
6624	1. TUCKER, M. W., Baths and Closets; Sewerage; Domestic Cooking Vessels; Closure Operators; Fences; Gates; Tillage.	Mar. 9	Mar. 27	746
6708	2. HERRMANN, D., Fishing and Trapping; Dairy, Animal Husbandry; Presses, Tobacco; Butchering; Bee Culture.	Mar. 13	Mar. 23	717
4093	3. LINDSEY, A., Heating; Metal Founding; Metallurgy; Metal Treatment; Electric Furnaces	June 10	June 14	411
7083	4. DONNELLY, A. E., Conveyors; Hoists; Handling Apparatus and Implements; Excavating; Elevators; Fire Escapes; Ladders, Scaffolds; Store Service; Pneumatic Despatch.	May 1	Apr. 29	493
3077	5. ROBINSON, C. W., Harvesters; Music; Acoustics; Sound Recording; Knotters; Buckles, Buttons	May 8	May 6	494
4898C	6. LEWERS, A. M., Carbon Chemistry (part)	Mar. 4	Mar. 16	1017
5725	7. JARBOE, C. G., Optics; Photography	Mar. 21	Apr. 8	951
3885	8. ADAMS, F. L., Beds; Chairs; Kitchen and Table Articles; Racks and Cabinets; Furniture	Mar. 9	Mar. 11	1191
4624	9. ADAMS, R. E., Pumps; Fluid and Fluid-Current Motors	Apr. 1	Apr. 3	745
6612	10. HUNTER, O. F., Land Vehicles—Animal Draft Appliances, Wheel Substitutes, Bodies and Tops; Vehicle Fenders; Spring Devices.	Apr. 15	Apr. 19	658
5087 B	11. BENHAM, E. V., Boots, Shoes, and Leggings; Button, Eyelet, and Rivet Setting; Harness; Leather Manufactures; Nailing and Stapling; Whip Apparatus; Hides, Skins, and Leather.	Apr. 26	Apr. 27	486
7701	12. HENRY, C. C., Machine Elements; Mechanical Starters; Stop Mechanisms	Mar. 7	Mar. 3	633
5096	13. BORLIK, F. J., Gear Cutting, Milling, and Planing; Metal Drawing, Forging and Welding, and Rolling; Metal and Plastic Metal Working; Needle and Pin Making; Turning; Boring and Drilling.	Feb. 17	Feb. 17	763
5097	14. YUNG KWAI, B., Farriery; Metal Bending; Metal Tools and Implements, Making; Sheet Metal Ware, Making; Wire Fabrics; Wire Working; Metal Working, Blanks and Processes; Metal Stock.	May 29	May 27	442
4897	15. HENKIN, BENJ., Glass; Plastic Block and Earthenware Apparatus; Plastics	Mar. 17	Mar. 17	1250
5716	16. SPENCER, C. J., Telegraphy; Telephony	Mar. 10	Mar. 21	854
5701	17. ARMSTRONG, H., Ornamentation; Paper Manufactures; Printing; Type Casting; Sheet-Material Associating or Folding; Sheet or Web Feeding; Type Setting.	Apr. 1	Apr. 1	638
4612	18. KURZ, JOS. A., Motors, Expansible-Chamber Type; Power Plants; Speed-Responsive Devices	Mar. 1	Mar. 1	539
4096	19. KENNEDY, A. R., Furnaces and Stoves; Fuel Burners	May 10	Apr. 11	455
6605	20. BROWN, L. M., Miscellaneous Hardware; Closure Fasteners; Locks; Safes; Undertaking; Bread, Pastry, and Confection Making.	Apr. 5	Apr. 4	444
7733	21. THOMPSON, T. J., Textiles: Cloth Finishing	May 12	Apr. 22	520
5600	22. RINGLE, D., Aeronautics; Firearms, Ordnance, and Explosive Devices; Mechanical Guns and Projectors; Boats and Buoys; Ships; Marine Propulsion.	Mar. 8	Mar. 8	991
7624	23. BUTTNER, W. J., Registers (part)	Feb. 3	Jan. 28	308
5083	24. DURAS, C. O., Apparel; Apparel Apparatus; Garment Supporters; Sewing Machines	Feb. 16	Feb. 27	1288
5709	25. BLAKELY, C. F., Classifying Solids; Centrifugal-Bowl Separators; Mills; Threshing; Vegetable and Meat Cutters and comminutors.	May 13	May 17	499
5893	26. YOUNG, R. R., Electricity, Generation; Motive Power	Mar. 29	Mar. 16	616
5708	27. CLARK, W. N., Brushing, Scrubbing, and Cleaning; Washing Apparatus; Textiles, Ironing and Fluid Treatment.	Jan. 13	Jan. 11	1291
4628	28. SOLYOM, H. L., Internal-Combustion Engines; Machine Element; Cylinders and Pistons	Apr. 3	Apr. 6	466
5082	29. SHKLARIN, J. B., Woodworking; Tools; Metal Working; Cloth, Leather, and Rubber Receptacles; Baggage; Package and Article Carriers; Tables.	Mar. 24	Mar. 29	806
4083	30. SHIPMAN, J. L., Automatic Temperature and Humidity Regulation; Illuminating Burners; Illumination; Thermostats and Humidostats.	Mar. 13	Mar. 7	865
4716	31. DUNCOMBE, C. S., Mineral Oils; Hydrocarbons	May 5	May 5	699
4086	32. LESH, KARL., Gas and Liquid Contact; Heat Exchange; Gas Separation; Agitating	May 12	May 1	364
6096	33. WYMAN, W. I., Bridges; Masonry, Concrete, Metallic, and Wooden Structures; Roofs; Roads	May 3	May 13	905
6025	34. SAPERSTEIN, S., Electricity, Transmission to Vehicles; Railways, Rolling Stock, Switches, and Signals; Track Sanders; Draft Appliances.	May 17	May 11	347
3876	35. REYNOLDS, E. C., Card and Sign Exhibiting; Signals; Dispensing; Portable Receptacles	Mar. 27	Mar. 24	677
7892	36. McFADYEN, A. D., Measuring and Testing; Force Measuring; Automatic Weighers	Mar. 3	Mar. 27	685
5886 B	37. WEAVER, M. E., Electricity, Circuit Makers and Breakers	Apr. 13	Apr. 17	698
3084	38. KRAFFT, C. F., Earth Boring; Hydraulic and Earth Engineering; Mining and Quarrying; Stone-working; Wells; Plastic Compositions.	Feb. 2	Feb. 3	938
4878	39. WHITNEY, F. I., Fluid-Pressure Regulators; Multiple Valves; Valves; Water Distribution	Apr. 24	Apr. 24	643
7880	40. OBERLIN, J. J., Metallic, Wood, Paper, and Special Receptacles	Mar. 1	Mar. 1	1653
7612	41. HERTZ, M., Typewriting Machines; Coin Handling; Recorders; Registers (part); Deposit and Collection Receptacles.	Mar. 24	Mar. 24	374
5882	42. CUTTING, H. O., Electric Signaling	Jan. 30	Jan. 31	681
4886 B	43. KLINGE, E. F., Medicines and Cosmetics; Bleaching and Dyeing; Explosive Compositions; Sugar and Starch; Azo Compounds.	Apr. 1	Apr. 10	590
4087 B	44. HARVEY, L. P., Refrigeration	Mar. 13	Mar. 6	732
7093	45. HILL, H. D., Shafting and Couplings; Lubrication; Bearings and Guides; Motors; Engine Cooling; Resilient Tires and Wheels; Wheels and Axles.	Apr. 5	Mar. 18	619
4613	46. BLEECKER, V. E., Evaporators; Fluid Sprinkling; Fire Extinguishers; Boilers; Heating Systems; Coating Implements and Machines.	Mar. 15	Mar. 18	792
6082	47. LOWE, E. R., Clutches; Brakes	Apr. 6	Apr. 8	453
5731	48. ROEPKE, O. B., Electricity, General Application; Igniters	Apr. 28	Apr. 28	536
7725	49. SHEFFIELD, E. L., Check-Controlled Apparatus; Ventilation; Driers; Liquid Purification	Feb. 14	Feb. 16	1086
4701	50. BLAKE, C. L., Synthetic Resins; Carbohydrate Derivatives; Rubber; Coating Processes	Feb. 16	Feb. 23	1331
5628	51. BACKUS, C. D., Radiant Energy (part)	May 17	May 17	679
7709	52. KNOTTS, M. K., Supports; Chucks; Joint Packing; Pipe and Rod Joints or Couplings; Tool-Handle Fastenings; Conduits and Housings; Laminated Packing; Pipes and Tubular Conduits.	Apr. 6	Mar. 27	759
6897	53. PECK, M. K., Books; Manifolding; Printed Matter; Stationery; Education; Paper Files and Binders; Tents, Canopies, Umbrellas, and Canes; Curtains, Shades, and Screens; Toilet; Label Pasting and Paper Hanging.	Apr. 21	Apr. 25	479
5874	54. STRACHAN, O. W., Electric Lamps; Vapor Electric Devices; Radiant Energy (part)	Apr. 10	Apr. 7	393
6883	55. BOWEN, S. T., Cutlery; Artificial Body Members; Dentistry; Surgery	Feb. 12	Feb. 15	599
4725	56. COCKERILL, S., Electrochemistry; Laminated Fabrics; Paper Making	Mar. 8	Mar. 2	1182
6613	57. NICOLSON, G. D. G., Cutting and Punching; Bolt, Nut, Rivet, Nail, Screw, Chain, and Horse-shoe Making; Driven and Screw Fastenings; Jewelry; Nut and Bolt Locks; Amusement Devices.	Mar. 25	Apr. 26	432
5605	58. DOWELL, E. F., Abrading; Bottles and Jars	May 2	May 2	431
4709	59. SHEPARD, P. W., Chemistry; Fertilizers; Gas, Heating and Illuminating; Substance Preparation; Heterocyclic Compounds.	Apr. 20	Apr. 20	687
5896	60. GLASS, R. L., Electric Heating and Welding; Batteries; Resistances; Dynamo Plants	Apr. 21	Apr. 21	442
6724	61. LAMAN, JAMES (Act.), Laminated Electrical Insulation; Belt, Hose, Tire; Ball Making; Winding; Reeling; Pushing and Pulling; Horology; Time-Controlling Apparatus; Railway Mail Delivery.	Mar. 14	Mar. 8	578
5621	62. PUGH, E. C., Games; Geometrical Instruments	May 12	May 15	508
4888	63. WINKELSTEIN, A. H., Foods and Beverages; Preserving, Disinfecting, and Fermentation; Poisons.	Feb. 8	Feb. 10	859
4708	64. NASH, P. M., Acetylene; Distillation; Gas Mixers; Oils, Fats, and Glue; Liquid Coating Compositions; Fuel.	Apr. 21	Apr. 20	838
5612	65. McDERMOTT, F. P., Electricity, Conductors; Repeaters; Relays; Wave Transmission	Mar. 21	Mar. 20	646
2099 B	Trade-Marks, Labels, and Prints: F. A. RICHMOND — Trade-Marks	July 1	July 27	1271
	Labels and Prints	Aug. 1	July 28	117
2605	Designs: H. H. KALUPY	July 5	July 15	809

DECISIONS IN PATENT AND TRADE-MARK CASES

U. S. Court of Customs and Patent Appeals

HILL AND HEY

v.

CASLER AND VORECH

No. 4,086. Decided February 27, 1939

[102 F.(2d) 219]

1. INTERFERENCE—PRIORITY—RIGHT TO MAKE COUNT.

Record reviewed and *Held* that C and V, the senior party, can make the count in issue and that priority was properly awarded to them as their application was filed prior to any date of conception claimed by H and H, the junior party.

2. APPEALS—CONCURRING DECISIONS ON TECHNICAL QUESTIONS NOT DISTURBED UNLESS MANIFESTLY WRONG.

"It is obvious that we have here a highly technical question respecting a quite complicated device, and it is the well settled rule that ordinarily concurring decisions of the Patent Office tribunals will not be disturbed unless it appears that they are manifestly wrong."

APPEAL from Patent Office. Affirmed.

Mr. C. L. Parker for Hill and Hey.

Mr. N. D. Parker, Jr., for Casler and Vorech.

GARRETT, *P. J.*:

This is an appeal in an interference proceeding arising in the United States Patent Office. The decision of the Board of Appeals which we are called upon to review is one affirming the decision of the Examiner of Interferences awarding priority to appellees, who are joint inventors. Their application is senior to that of appellants. Broadly, the invention relates to a power gear shifting mechanism for a motor vehicle.

As originally declared, the interference embraced five counts which appellees copied into their application filed November 8, 1933, from a patent inadvertently granted to appellants, as joint inventors, February 11, 1936, upon an application filed April 11, 1935. Subsequently two additional counts were added. Appellants were placed under order to show cause why judgment on the record should not be entered against them in view of the fact that their preliminary statements as to both sets of counts named dates for conception subsequent to the filing date of appellees' application. Appellants filed motion to dissolve alleging failure of appellees' application to disclose the subject matter of the counts. The motion was denied by the Primary Examiner and, in due course, judgment on the record was entered by the Examiner of Interferences. Hill and Hey appealed to the Board as to all the counts but later withdrew the appeal as to counts 1, 2, 3, and 5. The Board dismissed the appeal as to the counts so withdrawn and affirmed the Examiner as to the remaining counts 4, 6, and 7. Hill and Hey thereupon took appeal to this court as to counts 4, 6, and 7, but in their brief before us the appeal was withdrawn as to counts 6 and 7. So, there remains for our consideration only count 4 which reads:

Count 4. A gear shifting mechanism for a motor vehicle having a transmission provided with shifting means, comprising differential pressure power means for moving said shifting means, control valve mechanism for establishing differential pressure in said power means to move said shifting means selectively to a plurality of operative positions, said control valve mechanism including a plurality of control valves, and fluid pressure means independent of said power means for selectively controlling the operation of said valves.

In the decision of the Primary Examiner, denying the motion to dissolve, there was given the following general description of the invention:

A conventional arrangement of gears is provided for the transmission, but in place of the usual manually operated gear shift lever, there is provided a pivoted lever adapted to be engaged selectively with the shift rods of the transmission. This lever can also be moved longitudinally to move the shift rods longitudinally. Thus the lever is the full equivalent of the conventional gear shift lever which is moved transversely of the shift rails to select one of them and then moved longitudinally to move the rail longitudinally. Instead of a manual operation of this lever there is provided a piston and cylinder for moving it transversely and a second piston and cylinder for moving it longitudinally. These pistons and cylinders are fluid actuated and the admission of fluid thereto is controlled by an arrangement of valves, which in turn are operated by fluid pressure from the source, the flow of pressure to the valves being selectively controlled by a remotely situated, manually operable valve.

The sole question to be determined here is the ancillary one of appellee's right to make the count. More specifically, the question at issue is whether the device described by appellees discloses—

"fluid pressure means independent of said power means for selectively controlling the operation of said valves",

the last limitation of the count.

The drawings of both the application and the patent contain numerous figures and it was necessary to use a large number of numerals in designating the various structural features. Even the narrow issue before us has required the study of several figures to determine the manner in which the parts function. It is not deemed necessary here to reproduce the drawings.

Both the Primary Examiner and the Board discussed the limitation in detail, the former saying:

With respect to count 4, the parties Hill and Hey contend that the count recites power means for moving the shifting means, a control valve mechanism including a plurality of control valves for establishing differential pressure in the power means, and fluid pressure means independent of the power means for selectively controlling the operation of the control valves; and that Casler and Vorech do not disclose "fluid pressure means independent of the power means for selectively controlling the operation of the control valves". In re-viewing the structure of Casler and Vorech, it is noted that their control valves 98, 99 are only operated by the fluid pressure means 95. It is this means which determines which one of the control valves is actuated. The power means 20 does not function in this operation and remains stationary until one or the other of the control valves has been operated to admit fluid pressure to one side or the other of the power cylinder 87. Thus it is clear that in Casler and Vorech, the fluid pressure means selectively controls the operation of the control valves and operates them independently of the power means. The power means merely acts to lap the control valves after they have been actuated by the fluid pressure means and does not act in conjunction with the fluid pressure means to control the valves.

The Board, after quoting the limitation, discussed it as follows:

The Examiner held this properly read on the Casler and Vorech disclosure in that the piston 95 of the fluid pressure device 32 constitutes fluid pressure means independent of the power means 20 for selectively controlling the operation of control valves 98, 99. This is urged as an error inasmuch as the operation of the valves 98 and 99 is dependent upon the relative movements of the piston 96 of the fluid pressure device 32 and the piston 89 of the power device 20. The support for the operating

means of valves 98 and 99 is mounted on both of these pistons and the operating lever for controlling valves 98 and 99 may be operated depending on the relative movement of the two pistons above noted. However, when piston 89 is stationary, as it is at the start while piston 96 moves, then the valves 98 and 99 can be operated independently of the power means. Further, aside from such reading of the count, it is obvious that the fluid pressure device 32 is independent structurally of the power device 20 and we do not believe that count 4 should be so narrowly construed as to call for a control of operation of valves 98 and 99 by fluid pressure means independent of movement of the power device. Moreover, as explained in the Casler brief, one of the valves 98 and 99 may be operated to exhaust position while the other valve remains in exhaust position.

It is thus to be seen that the tribunals of the Patent Office concur fully with respect to the construction of the count and with respect to features of the device of appellees which meet it.

[1] The contention on behalf of appellants concerning the issue is based upon a construction of the language which their counsel insists is the proper construction, but which, in the view of the tribunals of the Patent Office, is narrower than is warranted under the rule governing the construction of counts in interference proceedings. It appears that the count originated with Hill and Hey and the brief on their behalf apparently insists that the count should be given an interpretation limited to their teaching. We do not understand appellants to challenge the accuracy of the description given by the tribunals of the Patent Office of the manner in which the Casler and Vorech structure operates, but they challenge the application made of the terms "independent of said power means" and "controlling the operation". It is insisted that the operation of the pertinent valves in appellees' structure is not controlled by the fluid pressure device itself but by the relative movement between the piston rods in such device and the power means [20] named in the count for moving the shifting means, and that the valves cannot be "controlled" by the fluid pressure device alone. The brief goes into great detail respecting the operation of the respective devices in the effort to support the limited construction for which contention is made. These descriptions of operation have been studied by us with care, but we are not convinced that the construction given by the tribunals of the Patent Office was erroneous.

[2] It is obvious that we have here a highly technical question respecting a quite complicated device, and it is the well settled rule that ordinarily concurring decisions of the Patent Office tribunals will not be disturbed unless it appears that they are manifestly wrong. It is true, of course, as was said by us in *Bryson* v. *Clarke*, 25 C. C. P. A. (Patents) 719, 92 F.(2d) 720, 490 O. G. 5, that the rule—

"has no application to pure questions of law, and ordinarily it does not apply to construction of claims and counts when technical questions pertaining to such claims or counts are not involved."

In the instant case, as has been said, there was complete concurrence by the tribunals below upon all questions of fact, and it seems to us that the technicalities pertaining to this count run to, or are involved in, the count's construction. In any event, appellants have failed to meet the burden of showing that the decisions below were manifestly wrong.

The appeal is dismissed as to counts 6 and 7, and as to count 4 the decision of the Board is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE OSTERSTROM

No. 4,073. Decided March 6, 1939

[102 F.(2d) 224]

PATENTABILITY—PROCESS FOR REMOVING GUM-FORMING AND COLOR-IMPARTING BODIES FROM CRACKED UNSATURATED HYDROCARBON OILS.

Certain claims for a process for removing gum-forming and color-imparting bodies from cracked unsaturated hydrocarbon oils *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. Edward F. Liebrecht (*Mr. G. H. Palmer, Mr. Edward B. Beale* and *Mr. Pike H. Sullivan* of counsel) for Osterstrom.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

GARRETT, *P. J.*:

There are here involved eight claims of an application for patent, filed in the United States Patent Office March 7, 1932, for a process for removing gum-forming and color-imparting bodies from cracked unsaturated hydrocarbon oils. The claims, numbered respectively, 1, 7, 8, 10, 11, 12, 13, and 15, were rejected by the Examiner as non-patentable in view of prior art and the Board of Appeals affirmed the Examiner's decision. Applicant thereupon took the instant appeal to this court. The reasons of appeal cover all the appealed claims and in addition there is a special assignment to the effect that the Board erred in failing to pass specifically upon the merits of claim 15, and this claim is separately discussed in appellant's brief before us. One claim, numbered 3, stands allowed.

For illustrative purposes we quote claims 1, 7, 10, 12 and 15:

1. The method of removing gum-forming and color-imparting bodies from cracked low boiling petroleum oils containing high percentages of unsaturated hydrocarbons, which comprises subjecting such oils admixed with previously formed hydrocarbon polymers to temperatures of the order of 500° to 600° F. while said oils are maintained under pressures sufficiently high to prevent substantially the evolution of vapor to effect polymerization of undesired compounds, then passing all of said oils containing said polymers while still in the liquid phase and without fractionation into direct contact with a finely divided solid polymerizing agent to effect further polymerization of undesired compounds, subsequently fractionating the oils following contact with the agent and under reduced pressures to separate such oils into relatively low and high boiling fractions, the low boiling fractions comprising the desired treated oils and the high boiling fractions comprising polymers of the undesired compounds, and returning a portion at least of said polymers of the process for admixture with incoming charging oils to be treated for use as a polymerization promoting catalyst therein.

7. In a process for effecting the removal of gum-forming and color-imparting bodies from cracked low boiling unsaturated hydrocarbon oils, the steps which comprise passing a solely petroleum mixture composed of such oils and previously formed hydrocarbon polymers containing said objectionable bodies through an elongated heating zone wherein said mixture is heated to a temperature above its normal vaporizing temperature but substantially below a cracking temperature while the mixture is maintained in the liquid phase by the employment of superatmospheric pressures, removing the mixture from the heating zone and without fractionation or substantial reduction in pressure thereof passing the said mixture while still in the liquid phase and containing said polymers into contact with solid adsorptive polymerizing catalyst, and fractionating the oils under reduced pressures and following contact with said treating agent to separate the desired oils as vapors from the heavier polymerized compounds.

10. In a process for effecting the removal of gum-forming and color-imparting bodies from cracked low boiling unsaturated hydrocarbon oils, the step which comprises passing an all-petroleum mixture composed of approximately 90% of said cracked oils and 10% of previously formed hydrocarbon polymers through a heating zone wherein said mixture is heated to a temperature above its normal vaporising temperature but substantially below a cracking temperature thereof while the mixture is maintained in the liquid phase by the employment of superatmospheric pressures, and without fractionation contacting said mixture upon discharge from the heating zone and containing said polymers with a finely divided solid adsorbent without substantial reduction in the pressure thereon.

12. In a process for effecting the removal of gum-forming compounds from cracked low boiling unsaturated hydrocarbon oils, the steps which comprise continuously passing a mixture composed of such low boiling oils together with a minor portion of previously formed hydrocarbon polymers through a heating zone, heating said mixture during its passage through said zone to a temperature above its normal vaporizing temperature but not in excess of about 600° F. while the mixture is maintained in substantially the liquid phase by the employment thereon of superatmospheric pressures, retaining said mixture in said zone for a sufficient period of time to polymerize at least in part the objectionable gum-forming compounds present in said oils, removing the mixture from the heating zone and, without fractionation or substantial reduction in pressure thereon, bringing the same while still in the liquid phase and containing said polymers into contact with solid adsorptive polymerizing catalyst to complete the polymerization of the undesired gum-forming constituents present in said oils, and fractionating the oils under reduced pressures following contact with said treating agent and separating the desired oils as vapors from the heavier liquefied polymers.

15. In a process for effecting the removal of gum-forming and color-imparting bodies from cracked low boiling unsaturated hydrocarbon oils, the step which consists in passing a solely petroleum liquid mixture of such oils and unmodified hydrocarbon polymers containing the aforesaid bodies through a heating zone wherein the mixture is heated in the liquid phase to a temperature of the order of 600° F. while maintained under superatmospheric pressure sufficient to maintain such oils in the liquid phase at the temperature of treatment.

Claim 8 differs from claim 7 in reciting that polymer liquid obtained by fractionating the completely treated oil is returned for admixture with fresh incoming oil. Claim 11 differs from claim 10 in reciting fractionation of the treated oil from the second treating step to separate treated vapors from polymerized oil. Claim 13 like claim 12 recites the retention of the mixture in the first heating zone for a time described, and in addition includes the step of fractionating the treated material to separate polymers and returning the polymers for processing as in claims 1 and 8.

A general description of appellant's claimed invention is stated in the brief on his behalf as follows:

• • • Appellant's invention consists of:

A two-step heat treatment of low boiling hydrocarbon oils at temperatures above the normal vaporising temperature of the oils but below the cracking temperature thereof, wherein,

(1) The oil is maintained in the liquid phase in both steps by the application of superatmospheric pressure, and

(2) The oil is treated in the first step in admixture with previously formed hydrocarbon polymers and without contact with any non-petroleum catalytic material to effect polymerization of at least a part of the objectionable gum-forming and color-imparting compounds present in the oil, and

(3) The resulting mixture of partially treated oil and polymerized hydrocarbons is passed without fractionation or substantial reduction in pressure to a second treating step wherein,

(4) The oil, including the polymers, is contacted with solid adsorbent catalytic material such as fuller's earth to effect further conversion by polymerization of the undesired gum-forming and color-imparting constituents to products higher boiling than the desired motor fuel product.

The references cited are: Gray, 1,759,814, May 20, 1930; Osterstrom et al., 1,789,413, January 20, 1931; Cross, 1,760,585, May 27, 1930; Stafford, 1,823,175, September 15, 1931; Stevens et al., 2,044,739, June 16, 1936; Gurwitsch, "The Scientific Principles of Petroleum Technology", 1926, pages 79 and 82.

The Examiner seems to have treated the patents to Stafford and Cross as primary references. In its decision the Board said:

The Examiner has rejected the claims on the patents to Cross or Stafford in view of Gray, Osterstrom et al., Stevens et al. or the publication to Gurwitsch. It is the Examiner's position that the first two patents have the combination of first heating in the liquid phase in a coil and then passing all of the products to a clay treating step and that to recycle polymers would be obvious from the last four references cited.

As later will appear the Board seemingly relied wholly on Stafford as the primary reference.

The primary contention on behalf of appellant, which applies to all of the appealed claims, is, in effect, that they relate to a two-step treating process and that neither Stafford nor Cross was concerned with other than a one-step treating process.

The two steps upon which appellant's arguments on the phase of the case now under discussion are based are expressed in claim 1, supra, by the clauses (*a*)—

"subjecting such oils • • • to temperatures • • •,"

and (*b*)—

"then passing all of said oils • • • into direct contact with a finely divided solid polymerizing agent • • •."

In appellant's brief it is asserted that:

The Patent Office has been unable to cite a single instance in the prior art of the use of a two-step process for the treatment of a hydrocarbon oil to remove gum-forming and color-imparting constituents, wherein the first step consists of the heat treatment of the oil in the liquid phase at elevated temperature in the absence of a non-petroleum catalyst to effect at least partial polymerization of undesired gum-forming and color-imparting constituents of the oil and wherein the resulting mixture of polymers and partially treated oil is passed, still in the liquid phase, to a second treating step in which the oil is contacted with a solid adsorbent material to promote further polymerization of undesired color-imparting and gum-forming constituents.

As we understand his decision, it was the view of the Examiner that both Cross and Stafford disclosed two stages of treatment. We are unable definitely to determine just what the view of the Board was as to the teaching of Cross upon this or any other phase of the controversy. It made no analysis of the Cross patent, merely stating briefly the contention of appellant without expressing any opinion in regard to it. Its principal discussion was of the Stafford patent. The Gurwitsch publication was referred to as disclosing that—

"it is known in the art that products of polymerization already formed have themselves the property of promoting polymerization,"

and the patent to Gray as disclosing—

"that it is old to recycle the polymers drained out • • •."

After this the Board said:

In view of these well known features in the art, it is considered that the claims involve nothing patentable over the patent to Stafford. The other rejections may be considered cumulative.

Appellant presents with his application a drawing illustrating a device by means of which his process may be carried out. The Stafford patent also has a drawing, upon which, taken in connec-

tion with the patent specification, the Board based the following statement:

> The patentee Stafford states * * * that the heating coil 1 may be heated by circulating hot products of combustion thereover and that treating cells 2 and 3 and the connections between the heater and the treating cells may to advantage be lagged or mildly heated externally to prevent loss of heat during the treating operation, that the pressure on the treating cells may be regulated and the rate of flow of oil through the treating cells controlled by the valves 7, 8 and 9 and the pump 6 so as to maintain any desired pressure on the oil during treatment and so that the period of time over which the oil is in contact with the absorbent material is sufficient to effect conversion of the unstable, unsaturated hydrocarbons to higher boiling polymers. The pump 6 is located in the pressure line ahead of the heating coil 1 and since as here described it is a part of the means to maintain the desired pressure on the oil during treatment and to control the period of time it is treated, it seems obvious that the period of time that the oil is in contact with the material in the treating cells 2 and 3 is in accordance with the period of time that the oil remains in the heating coil 1.
>
> It is further stated in the Stafford patent that the heavier solvent oil containing the dissolved higher boiling polymers may be drawn off as a liquid from the bottom of the tower 4, that the solvent oil and dissolved constituents may be charged directly while hot to a pressure still wherein both the solvent oil and higher boiling polymers may be subjected to further cracking treatment, that this method of operation is particularly advantageous when pressure still charging stock is employed as a liquid solvent in the treating operation.
>
> It seems that this description indicates definitely that the solvent oil, together with the dissolved higher boiling polymers may be used as the liquid solvent to be combined with the gasoline distillate which is treated in the heating coil 1.

Appellant filed a written request that the Board reconsider its decision and "more particularly amplify" its holding with respect to claims 1, 12, and 13. This request seems to have been treated by the Board as a petition for rehearing. At any rate, it is recited that "the petition is denied", but it did write an opinion in connection with such denial. From that opinion we quote the following:

> Petitioner's contention related particularly to the rejection on the Stafford patent, is that there is no suggestion in the patent disclosure which would teach one skilled in the art that partial polymerization should be carried out in heating coil 1, nor that such partial polymerization is inherently present in the Stafford process. The petition argues that in each of the claims 1, 12 and 13 and in his specification the oil undergoing treatment in the first stage is retained therein for a period of time sufficient to effect partial polymerization.
>
> Claim 1 does not appear to have this limitation to a period of time sufficient to effect partial polymerization stated therein. It is argued that Stafford does not do this. It is also argued that it is of importance that a longer period of time is required to effect polymerization by heat and pressure in the first stage than in the second stage. This difference in the periods of time for the two stages does not appear to be incorporated in the claims here under consideration. In any event, it is believed such limitations would not render these claims patentable over the Stafford patent.
>
> * * * * * * *
>
> According to applicant's specification, as indicated, the polymerization material exerts a catalytic action and accelerates the desired polymerized reactions when the oil undergoing treatment is maintained in the liquid phase. With these conditions as disclosed in the application being maintained in the Stafford patent, it appears that there is necessarily polymerization in the heating step.

Appellant evidently construes the last sentence above quoted as being a holding by the Board that polymerization is inherent in the heating coils of the Stafford device, and the holding so construed is assigned as error, with much argument thereon in appellant's brief.

The Solicitor for the Patent Office construes it differently. In his brief it is said:

> The second decision of the Board of Appeals * * * pointed out that in the petition for reconsideration appellant had argued there was "no suggestion in the patent disclosure which would teach one skilled in the art that partial polymerization should be carried out in heating coil 1, nor that such partial polymerization is inherently present in the Stafford process." Even then, the Board of Appeals did not say that polymerization was inherently present in the Stafford process. What the Board of Appeals did say * * *, after discussing the patent was as follows:
>
> With these conditions as disclosed in the application being maintained in the Stafford patent, it appears that there is necessarily polymerization in the heating step.
>
> The foregoing observation of the Board of Appeals is clearly sound logic since it must be obvious that if the same conditions which the application discloses are maintained in the apparatus in the Stafford patent the same results must follow, regardless of whether the patentee stated those results or not.
>
> The Board of Appeals, however, was not strictly concerned whether Stafford maintained the conditions disclosed in appellant's application but so far as the appealed claims were concerned, the question was merely whether the Stafford patent disclosed the conditions or steps specified in the appealed claims.
>
> It is fundamental that if appellant is entitled to a patent at all it must be based upon the steps enumerated and cannot be predicated upon the result attributed in the claims to flow from those steps.

In view of our conclusion in the case it is unnecessary for us to attempt an interpretation of the Board's expression.

We have considered quite carefully appellant's arguments directed to the effort to establish that Stafford's disclosure is not of a two-stage process embracing in substance the two steps above defined, but we are not convinced that the holdings below upon this point were erroneous. It seems clear to us that the steps of first heating to a described temperature and then passing the so heated product through the earth towers shown by Stafford must of necessity be separate steps and that they must take place in the process carried out by the Stafford device in the order stated.

It may be conceded that Stafford does not say that he heats oil in his coil for the purpose of polymerization, while appellant in his specification does state such to be his purpose, but this does not affect the validity or force of the patent as a reference so long as it discloses the step of subjecting the oil to the temperature and pressure. *In re Adams*, 24 C. C. P. A. (Patents) 1043, 88 F.(2d) 495, 484 O. G. 4.

Another allegation of counsel for appellant is that the Board misinterpreted the Stafford reference. The brief goes so far as to say that the Board "attributes to this reference a character which is utterly false".

The argument respecting this quite vigorous assertion is not directed to the two steps of the claims, above set forth, but to a step defined, for example, in the last clause of claim 1 reading,

> "returning a portion at least of said polymers of the process for admixture with incoming charging oils to be treated for use as a polymerization promoting catalyst therein."

This particular limitation appears only in claims 1, 8, and 13.

The insistence of appellant's counsel is that Stafford does not suggest the step of returning the polymers or a portion thereof to any part of his treating system but on the contrary suggests that the mixture of oil and polymers be subjected to cracking treatment externally of the system.

We do not understand the Board to have held that Stafford teaches the return of the polymers in the manner taught by appellant. What the Board actually said in its first decision is stated in the last paragraph quoted above from that decision. The statement is merely to the effect that there is in the Stafford patent a teaching that the solvent oil, etc., may be used as the liquid solvent in the treating process in Stafford's heating coil 1. In its brief discussion of this point in its second decision the Board went no further, as we interpret its language, than it did in the first decision. As we understand the Board's decision, particularly when taken in connection with that of the Examiner which it affirmed, other references, referred to by counsel as secondary references, were held to show the step of returning or recycling the material to the heating coil. The teaching of the patent to Gray was specifically referred to by the Board in this connection.

Counsel for appellant urge that the "secondary references do not bridge the gap between the primary references and appellant's invention" and in support of this contention analyze certain features of such references. With respect to the Gray patent showing relative to the matter of "recycling" it is conceded that it shows a return of the polymer liquid to the base of the fractionating tower, but the purpose of returning it, counsel say, in effect, differs from the purpose taught by appellant, appellant's purpose being to use it "as a polymerization promoting catalyst" when admixed with incoming charging oils.

It seems to us that the return, not the purpose of the return, is the matter here of importance from the patentable standpoint. Gray shows the return.

In the oral argument before us counsel for appellant emphasized the limitation appearing in counts 12 and 13 with respect to the retention of the mixture of low boiling oils and previously formed hydrocarbon polymers in the heating zone through which it passes—

> "for a sufficient period of time to polymerize at least in part the objectionable gum-forming compounds present in said oils."

This specific limitation does not seem to have been independently discussed by the Examiner in his statement, but it received the attention of the Board in both of its decisions from which quotations have been already made. Attention is directed to the second paragraph quoted from the second decision wherein the Board pointed out that the insistence was made that a longer period of time is required to effect polymerization in the first stage (by which we understand is meant in the heating zone) than in the second stage. The Board then said, in effect, that the difference in time does not appear to have been incorporated in the claims and added,

> "In any event, it is believed such limitations would not render these claims patentable over the Stafford patent."

In view of the disclosures of the Stafford patent, as quoted, supra, from the Board's first decision, we are not convinced that the holding as to this limitation was erroneous. In other words, the conditions disclosed by Stafford as being maintained in his patent would seem necessarily to embrace, as held by the Board, some "polymerization in the heating step". No period of time for retaining the mixture in the heating zone is specified by appellant as being critical, the expression being simply "for a sufficient period * * *."

With respect to claim 15 there was a special reason of appeal assigned in the appeal to us to the effect that the Board erred in failing specifically to pass upon its merits. The claim apparently was added at some time after the final action on the other claims by the Examiner and before the Examiner's statement following the appeal to the Board. It is stated that it was added for the purpose of appeal. The Board did not specifically discuss it in its original opinion and it was not embraced in the group of claims specially mentioned in appellant's request to the Board for reconsideration. It was quite fully discussed in the Examiner's statement as follows:

> Claim 15 is modeled after allowed claim 3, but is broader in not numerically specifying the pressure used. This claim is more limited than the other claims involved in this appeal in stating "consists" (rather than "comprises"), and is also apparently more limited than allowed claim 3 in stating that the hydrocarbon polymers are "unmodified". Claim 15 is substantially met by Stafford in view of Stevens et al. Recycling of polymers is disclosed by Stevens et al. and to add this feature to Stafford does not seem to require invention, Stafford having liquid phase and temperatures of 500° F. or higher; note Stafford's suggestion of increasing temperature on page 1, lines 87–96. Claim 15 is also considered substantially met by Cross in view of either Osterstrom et al., the Gurwitch article, or Stevens et al.; in taking this view the Examiner is at this point relying especially on the discussion of the prior art on page 1, lines 63–67 of Osterstrom et al.

In the absence of any showing to the contrary it must be assumed that the Board of Appeals performed its duty and considered claim 15 upon its merits. The fact that it expressed no opinion specific to it in its decision may be regrettable in view of the circumstances of the case but that fact does not constitute reversible error.

In view of our conclusion upon the principal issue presented and with respect to the limitations so far discussed, a recital of our views upon other incidental questions discussed in the briefs and arguments before us could serve no good purpose.

We think there is no reversible error to be found in the decision of the Board of Appeals and the same is affirmed.

Affirmed.

U. S. Court of Customs and Patent Appeals

IN RE EARLE AND STEINMAYER

No. 4,074. Decided March 6, 1939

[102 F.(2d) 232]

PATENTABILITY—LIGHTNING ARRESTER.

A certain claim for a lightning arrester having a glass housing *Held* patentable, and certain other claims which required that only a portion of the housing shall be of glass *Held* unpatentable over the prior art.

APPEAL from Patent Office. Modified.

GARRETT, *P. J.*, and BLAND, *J.*, dissenting.

HATFIELD, *J.*, specially concurring.

Messrs. Brown, Jackson, Boettcher and *Dienner* (*Mr. John A. Dienner* and *Mr. Robert R. Lockwood* of counsel) for Earle and Steinmayer.

Mr. R. F. Whitehead (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

LENROOT, *J.*:

The application for patent, Serial No. 72,734, here involved relates to lightning arresters for use in electrical power transmission systems. It was filed in the United States Patent Office April 4, 1936, as a continuation of a prior application, Serial No. 716,244, filed March 19, 1934. Eighteen claims were presented. All were denied by the Examiner as being non-patentable in view of prior art cited, and his decision was affirmed by the Board of Appeals. From the decision of the latter the instant appeal to this court was taken. At the hearing before us the appeal was withdrawn as to claims 1 to 15, inclusive, so that only three claims, 16, 17, and 18 require consideration here.

Claim 16 is illustrative. It reads:

16. In a lightning arrester for an alternating current power transmission line operating at a power frequency of 60 cycles or less, in combination, a spark gap assembly, a pair of spaced apart electrodes, a mass of electric valve material interposed therebetween, said spark gap assembly being connected in series circuit relation with said electrodes and valve material and the combination being disposed to be connected between said line and ground, and a glass housing having relatively thick walls surrounding said spark gap assembly and said valve material which permits light rays emanating from the interior thereof to be visible from substantially any point around the lightning arrester and which permits a visual inspection to determine the existence of any variations from the normal condition thereof.

Numerous references were cited. Some of these related particularly to those claims as to which the appeal has been withdrawn and may now be disregarded. The references applicable to the three claims remaining are the following patents: Reid, 1,311,916, August 5, 1919; Dryden, 1,359,971, November 23, 1920; McFarlin, 1,923,943, August 22, 1933; Beckett et al., 1,947,076, February 13, 1934.

In the brief for appellants there is set forth a general statement respecting lightning arresters, their function and operation, and it is said that prior to the production of the devices at issue, it had been the custom to enclose the "spark gap assembly and a mass of valve material interposed between a pair of plate-like electrodes" in opaque housings. The brief states:

Accordingly, appellants' invention resides in the substitution of a transparent housing, composed of glass, for the opaque housing, composed of porcelain, of the prior art for enclosing the spark gap assembly and valve material of an electric power line lightning arrester, thereby permitting visual inspection of the interior condition of the same from any point around the lightning arrester when it is installed on a transmission line tower or pole, or prior to installation. • • •

It may be said that in exhibits of appellants' devices brought to our attention at the hearing the housing was composed of glass, and in prior art exhibits it was composed of porcelain.

The disclosures of the references pertinent to claims 16, 17, and 18 are stated in the Examiner's decision in the following language:

The general type [of] arrester shown by applicant is shown by McFarlin and Beckett both of which use valve material with a series multiple gap. The casings however are of porcelain and visual inspection of the interior thereof or of the operation of the device is not possible. The Examiner can see no invention in making the casings of these references of glass to permit inspection, *Ex parte Onderdank*, 260 O. G. 561. This involves merely a change of material to secure an expected and known result and is not patentable. *In re Schoenrock*, 424 O. G. 329. The casings of Beckett and McFarlin both have ribs for various purposes and if of glass these ribs would inherently act as lenses to the same extent as applicants'.

The use of glass for insulators is old and well known. Applicants' glass casing is no thicker than the prior art porcelain ones.

Claims 1, 2, 3, and 7 to 18 were accordingly rejected on McFarlin or Beckett.

Since Reid and Dryden teach the use of glass windows to permit inspection, the Examiner can see no invention in providing windows or making of glass any casing to permit inspection of the interior.

From the foregoing it will be seen that the Dryden and Reid patents were cited particularly because of their showing a "window" of transparent material in the housing through which inspection of the arresting mechanism may be made. Of these patents the Board said:

Without a doubt the Dryden and Reid patents disclose arresters which can be inspected from the outside. It is of course necessary to look into the arrester from a point opposite the window. . If the entire casing is made of transparent material, the interior could be inspected from all sides. However, this is merely carrying forward an old idea and does not appear to involve invention. It is further quite common in many arts to enclose the vital parts of an apparatus within a transparent casing so that the interior mechanism may be inspected from all sides. Numerous examples of this can be given such as clocks, electric meters, etc. From this we think it would be obvious to make the entire casings in McFarlin and Beckett et al. of a transparent material so that the interior can be inspected from all sides. Particularly is this true because it is broadly old to provide windows on a lightning arrester for this purpose.

It is not seriously contended before us that the arrester mechanism of appellants enclosed in the housing, as described in claims 16, 17, and 18, contains any features not shown by the prior art, and the elemental issue in the case is whether invention was involved in making housings wholly of glass (or other transparent materials) instead of opaque material, such as porcelain, especially in view of the showing with respect to windows in the opaque housings.

During the progress of the case in the Patent Office appellants presented affidavits relating to advantages derived from the use of the transparent housings. For example, it is shown to be possible for one inspecting an electrical power line equipped with glass-housed arresters to detect any collapse of the arresters from the ground and without the necessity of climbing the poles carrying the wires. Formerly it seems it would have been necessary to climb the poles even where the housings were equipped with windows in order to obtain a view of the arresting equipment, and in cases where there were no windows it seems to have been necessary to disconnect the devices and carry them to some place for testing. One affidavit relates to commercial success.

We will first consider claim 16, which provides for a glass housing which permits light rays emanating from the arrester to be visible from substantially any point around the same.

Counsel for appellants concede the rule to be that substitution of one material for another usually does not involve invention, but it is pointed out that there are exceptions to the rule, and various decided cases are cited in which the exceptions were applied.

With respect to such questions the general rule is stated in the case of *Hicks* v. *Kelsey*, 18 Wall. 670, wherein the court stated:

• • • The use of one material instead of another in constructing a known machine is, in most cases, so obviously a matter of mere mechanical judgment, and not of invention, that it cannot be called an invention, unless some new and useful result, an increase of efficiency, or a decided saving in the operation, is clearly attained. • • •

Upon this same point the Circuit Court of Appeals, Third Circuit, in the case of *Low et al.* v. *McMaster*, 266 Fed. 518, stated:

On this subject it is the law, that merely to substitute superior for inferior materials, in making one or more or all of the parts of a machine or manufacture, is not invention, although the substitution may be of materials that are both new and useful in high degree. It is also the law, as exceptions to this general rule, that if the substitution involved a new mode of construction; or if it developed new properties and uses of the article made; or where it produces a new mode of operation, or results in a new function; or when it is the first practical success in the art in which the substitution is made; or where the practice shows its superiority to consist not only in greater cheapness and greater utility, but also in more efficient action, it may amount to invention. [Citing cases.]

In the case of *Van Heusen Products, Inc., et al.* v *Earl & Wilson*, 300 Fed. 922, the District Court, Second District, N. Y., stated:

I am faced with the usual collection of cases to prove that it is never invention to substitute one material for another. • • • I do not conceive that the law has ever laid down any such absolute rule on this subject, or any other absolutes for that matter. The prospect of getting objective tests for invention is tempting, but it is a mirage. How is it possible to say a priori what combination of elements needs an original twist of the mind, and what is within the compass of the ordinary clod? Is it not clear that the quality of a man's inventiveness must be tested by reconstituting the situation as it was in the light of the preceding history of the art? There is no vade mecum for such inquiries. Our unknown ancestor, who first substituted iron for bronze in the head of an ax, was the bright exemplar of all inventors to come. Yet it was not an invention, if one is bound by this objective test. In this subject the standard escapes any abstract definition, because the end in view needs nicer adaptations, as in the cases of due care or notice. The defect of such a standard is indeed its uncertainty, but certainty is only one of the ends of law.

In the case at bar, while it may be said that the substitution of glass for porcelain as the housing for a lightning arrester does not per se affect its operation, it is true that the glass housing has a new property not possessed by the porcelain housing, viz., rendering visible at a distance the operative condition of the arrester. With the glass housing the condition of the arrester may be observed from the ground, while all of the arresters shown in the cited art required, for such observation, the climbing of the pole or tower on which they were placed, and even then, according to statements contained in appellants' application, it was often necessary to disconnect a large number of arresters and test them in order to determine which arrester was in an inoperative condition. An affidavit in the record states that the operative condition of appellants' glass housing arrester may be observed from the ground, while the inspector is in an automobile upon the highway, the pole upon which the arrester is placed being some fifty feet from the traveled portion of the highway.

It is our opinion that this additional property of the glass housing brings appellants' device within an exception to the general rule regarding substitution of material. The question remains, however, whether, in view of the cited references, the substitution of glass for the porcelain housing of the prior art required the exercise of the inventive faculty.

It is true that the patents to Dryden and Reid disclose arresters having small glass windows aligned with the spark gap assembly, and that by aligning oneself with the aperture, it is possible to inspect a portion of the interior of the arrester. However, in order to do so, it would be necessary for the inspector to climb the pole or tower. It was the view of the Board of Appeals that to make the entire housing of glass was merely carrying forward an old idea and did not involve invention.

This question is a close one, but we think appellants have greatly advanced the art of lightning arresters and have effected great savings to their users. It does not seem to us that any of the cited references suggest a glass housing rendering the operative condition of the arresters visible at a considerable distance. At least we think there is such reasonable doubt upon this question that it should be resolved in favor of appellants, and we so hold.

Of course, when the idea was once conceived of rendering the operative condition of the arrester visible at a distance, the use of a glass housing for that purpose was obvious; but a part of the inventive concept was the idea of rendering the operative condition of the arrester so visible. In the case of *Rosemary Mfg. Co.* v. *Halifax Cotton Mills, Inc.*, 257 Fed. 321, it was stated:

In many inventions there are two distinct steps: First, the conception of the general result wished for; second, the discovery of a way of obtaining it. In a large majority of cases, perhaps, the first may be obvious to every one interested in a particular art, and it is the second which calls for the exercise of inventive genius. But that is not always so. It may well be that two or more machines, appliances, or tools are old and well known. Some day it dawns on some one that, if they are combined, new and useful results will be obtained. It may be that, so soon as the advantages of the combination are understood, the means of bringing it about are within the capacity of any fairly skilled mechanic. In a third class of cases inventive genius may be required both in perceiving the combination that is desirable, and in finding out a practical way of making it.

So here a part of the inventive concept was the idea of rendering visible at a distance the operative condition of a lightning arrester, and when a glass housing was utilized for that purpose the invention became complete, and it is immaterial that the use of glass to complete the invention would be obvious to one who had formed such original concept.

Claims 17 and 18 differ from claim 16 in that it is required that only a portion of the housing shall be of glass. This is not, in our opinion, a sufficient departure from the disclosures of Dryden and Reid to constitute invention. We think the claims would be fully met by merely extending the windows disclosed by said references, and that in order to inspect the arrester with such a housing it would still be necessary to climb the pole or tower upon which it is placed. For this reason we hold that claims 17 and 18 are not allowable.

The appeal is dismissed as to claims 1 to 15, inclusive, affirmed as to claims 17 and 18, and reversed as to claim 16.

Modified.

GARRETT, *P. J.*, and BLAND, *J.*, dissent as to claim 16.

HATFIELD, *J.* (specially concurring):

I am unable to agree with the views expressed in the majority opinion that the question of substitution of materials can be divorced from the question of invention. Considering the facts and circumstances of record, I think appellant has done something more than merely substitute a transparent housing, such as glass, for an opaque housing, such as porcelain.

U. S. Court of Customs and Patent Appeals

IN RE PIRANI AND WEST

No. 4,088. Decided February 27, 1939

[102 F.(2d) 207]

PATENTABILITY—GASEOUS ELECTRIC DISCHARGE LAMP. Claim for a gaseous electric discharge lamp *Held* unpatentable over the prior art.

APPEAL from Patent Office. Affirmed.

Mr. F. Gerald Toye (*Mr. Thomas H. Brown, Mr. Clarence L. Lattin*, and *Mr. Thomas W. Brown* of counsel) for Pirani and West.

Mr. *R. F. Whitehead* (*Mr. Howard S. Miller* of counsel) for the Commissioner of Patents.

JACKSON, *J.*:

This is an appeal from a decision of the Board of Appeals of the United States Patent Office affirming a decision of the Examiner, rejecting claims 25, 26, 27, and 28 of appellants' application for a patent. No claims were allowed.

At the oral argument here, counsel for appellants moved to dismiss the appeal as to claims 25, 26, and 27, which motion will be granted.

Claim 28 reads as follows:

28. A gaseous electric discharge lamp comprising an elongated, tubular container, a luminosity producing gaseous filling therein, cooperating electrodes mounted in the respective ends of said container, each of said electrodes being mounted on a single current lead sealed into said container, one of said electrodes being a cathode and comprising a sintered mixture of metal and oxidic material of high electron emission capable of supporting a luminous electric discharge of high current density and brightness.

The references cited are: Heany, 761,380, May 31, 1904; Lederer, 1,461,921, July 17, 1923; Marden, 1,591,717, July 6, 1926; Machlett, 1,680,272, August 7, 1928; and Gross, 1,879,740, September 27, 1932.

The alleged invention relates to electric illuminating tubes of the gaseous discharge type. The tubes are filled with one or more noble or base gases, such as neon, with or without a mixture of a vaporizable metal such as mercury. The tubes contain in each end an electrode comprising a sintered mixture of finely divided metal and oxide particles of high electron emission. A single lead-in wire is connected with each electrode.

The Lederer patent discloses an elongated electric discharge lamp filled with one or more gases, such as neon, helium, argon, krypton, etc. The lamp contains at either end an electrode mounted as shown in one of the drawings on a single lead-in wire. One of the electrodes is platinum coated with an electron emissive oxide (calcium oxide), and the other is made of an alkali metal, such as potassium, sodium, or lithium.

The Machlett patent discloses an elongated luminous electric discharge tube in which interior electrodes are used and which is filled with one or more gases, such as neon or helium in combination with mercury vapor. The electrodes are small and made of graphite or carbon impregnated with an alkali metal. A single lead-in wire is provided for each electrode.

The Marden patent relates to electron emission material and a method of manufacture and discloses an electron emissive filament or body comprising a sintered mass of metal particles and alkaline earth oxide particles.

The Heany patent discloses an enclosed arc lamp having within it electrodes composed of a mixture of metal and electron emissive oxide particles.

While one of the grounds of rejection of all of the claims by the Examiner was that they were considered unpatentable over the Gross patent, in view of our conclusion, we do not consider it necessary to discuss this reference. Concerning this reference the Board stated as follows:

Claims 25 to 28, inclusive, were rejected on the Gross patent with the notation that applicants were unsuccessfully involved in interference No. 65,468 with this patent. However, it appears that the counts awarded to Gross contained limitations which were not shown in Pirani's German application and that Gross is limited by his preliminary statement in the interference to a date of July 15, 1928, whereas Pirani is entitled under the convention to the date of July 13, 1928, the filing date of the German application. It is therefore apparent that as to Pirani's invention as claimed here, Gross is not the first inventor. The rejection of the claims on the Gross patent will not be approved for this reason.

With this holding we are in accord.

The Board affirmed the decision of the Examiner rejecting all of the claims on the ground that they are unpatentable over either the Lederer or the Machlett patents in view of the patents either to Marden or Heany.

The statement of the Examiner says:

No invention is deemed to be involved in making electrodes *f—g* in Fig. 2 of Lederer or electrodes 5 of Machlett of the same composition as taught by Marden or Heany (namely, of metal and oxidic material capable of high electron emission), particularly since electrode *b* in Fig. 1 of Lederer is made of such material (platinum covered with calcium oxide).

It is quite clear that the patents of Lederer and of Machlett each disclose—

"A gaseous electric discharge lamp comprising an elongated tubular container and a luminosity producing gaseous filling therein * * *."

The patent to Lederer discloses "* * * cooperating electrodes mounted in the respective ends of said container". The Lederer patent and that of Machlett each discloses "* * * electrodes being mounted on a single current lead * * *". The composition of the electrode shown in the appealed claims as "* * * comprising a sintered mixture of metal and oxidic material of high electric emission" is shown by Marden, and the electrode of Lederer is made of such material, platinum covered with calcium oxide although the materials are not sintered. Therefore, it appears that every element of the claim on appeal is old as shown by the references. None of them, it is true, contain all the elements of the claim but a new combination of old elements does not necessarily involve invention. It does not seem to us that it would require exercise of the inventive faculty to replace the electrodes of the Lederer or Machlett patents with electrodes made in accordance with the disclosure of the Marden patent. It seems obvious that one skilled in the art would do so, if he so desired. *Marble Lamp Co.* v. *Aluminum Products Co.*, 301 U. S. 544, 480 O. G. 475; *In re Cordes*, 22 C. C. P. A. (Patents) 1158, 76 F.(2d) 302, 1935 C. D. 522; *In re Wadman*, 25 C. C. P. A. (Patents) 936, 94 F.(2d) 993, 492 O. G. 482.

Although appellants' device is probably new and useful we do not think it involves invention. *In re Green*, 25 C. C. P. A. (Patents) 1143, 97 F.(2d) 130, 496 O. G. 1106.

Appellants contend that the combination of their device eliminates "for the first time many vexatious problems which had beset the art prior to the present invention". The record does not indicate the existence of any such problem. If it did, a different conclusion might have been reached. As this Court said in *In re McCabe*, 22 C. C. P. A. (Patents) 862, 865, 76 F.(2d) 760, 1935 C. D. 226:

It may be conceded that appellant's device is a meritorious one, and that it is commercially successful. Nevertheless, there is absolutely nothing in the record to indicate that the use of a constant current transformer in an electrical device, of the type claimed by appellant, was not obvious to one skilled in the art.

Had the record disclosed that the problem, if it may be so denominated, confronting appellant and those skilled in the art had actually remained unsolved over a protracted period of time, it might be argued with some plausibility that the use of a constant current transformer in an electrical ignition device for fluid fuel burners, for the purposes set forth in appellant's specification, involved invention.

Appellant also contends that none of the references—

"discloses a self-starting, low voltage gaseous discharge lamp of the type set forth in the rejected claims."

The answer to this contention is that the claim in issue does not state that the device is self-starting or of low voltage.

The motion of appellant to dismiss claims 25, 26, and 27 is granted, and for the reasons set forth herein the decision of the Board of Appeals as to claim 28 is affirmed.

Affirmed.

Patent Suits

[Notices under sec. 4921, R. S., as amended Feb. 18, 1922]

1,282,546, F. S. Denison, Thermostat; 1,818,697, same, Thermostatic switch; 1,458,749, same, Switch mechanism; Re. 18,771 (of 1,764,344), Phelan & Hotchkiss, Temperature control apparatus; 1,847,033, same, Electrical apparatus; 1,847,037, 1,847,034, L. A. Phelan, Electric switch; 1,847,036, same, Connecting means for electrical switches; 1,883,245, J. C. Bogle, Electrical switch; 1,908,493, same, Electrically controlled heating system, D. C., E. D. Mich. (Detroit), Doc. 6112, *Minneapolis-Honeywell Regulator Co.* v. *Art Tool & Die Co.* Dismissed June 13, 1939.

1,458,749. (See 1,282,546.)

1,467,930, J. W. Fretwell, Locked razor, appeal filed June 10, 1939, C. C. A., 4th Cir., Doc. 4506, *Gillette Safety Razor Co.* v. *J. W. Fretwell.*

1,491,789, C. W. Cowles, Electrical connection; 1,805,754, S. W. Borden, Electrical connecting device for electrical conductors, filed June 7, 1939, D. C., S. D. Calif. (Los Angeles), Doc. 423, *S. W. Borden* v. *T. & T. Electric Mfg. Co.*

1,540,628, Hurxthal & Hurxthal, Automatic temperature control for bread toasters; 1,907,199, A. O. Hurxthal, Cooking utensil, D. C. Del., Doc. E 1159, *Proctor & Schwartz Electric Co.* v. *McGraw Electric Co.* Claims 1, 2, and 3 of 1,540,628 and Patent 1,907,199 held valid and infringed May 15, 1939.

1,581,339, H. C. Fox, Coupon ticket, D. C., E. D. Mich. (Detroit), Doc. 8150, *H. C. Fox* v. *Detroit Baseball Co.* Dismissed June 9, 1939.

1,635,829, O. C. Frederickson, Protecting coating for covered conductors and method of applying same, D. C. Del., Doc. E 1244, *National Electric Products Corp.* v. *Anaconda Wire & Cable Co.* Dismissed May 22, 1939.

1,685,307, R. C. Baker, Cementing and floating shoe; 1,748,007, same, Guiding, floating and cementing device for well casing; 1,859,593, O. A. Mellin, Well cementing device, D. C., S. D. Calif., C. Div., Doc. E 878–Y, *Baker Oil Tools, Inc.*, v. *E. V. Crowell.* Patent 1,859,593 held valid and infringed, injunction June 5, 1939.

1,700,246, A. Woelm, Step-by-step lead pencil; 1,866,072, 1,928,042, 1,762,317, 1,700,247, 1,762,318, same, Magazine lead pencil; 1,700,255, E. D. Feldman, Step-by-step lead pencil; 1,700,257, 1,700,256, same, Magazine lead pencil, D. C., S. D. N. Y., Doc. E 86/164, *Penmac Corp.* v. *The Esterbrook Steel Pen Mfg. Co.* 1,866,072 and 1,928,042 held valid and infringed; bill dismissed as to 1,700,246, 1,700,257, and 1,700,255; 1,700,247, 1,700,256, 1,762,317, 1,762,318 eliminated by stipulation between counsel (notice June 9, 1939).

1,700,247. (See 1,700,246.) 1,700,255. (See 1,700,246.)

1,700,256. (See 1,700,246.) 1,700,257. (See 1,700,246.)

1,748,007. (See 1,685,307.)

1,756,043, F. E. Weidhaas, Stage curtain or drop; 1,900,677, Weidhaas & Harding, Curtain and controlling means therefor, filed June 5, 1938, D. C., S. D. N. Y., Doc. E 4/121, *F. E. Weidhaas* v. *Loew's, Inc., et al.*

1,762,317. (See 1,700,246.) 1,762,318. (See 1,700,246.)

1,764,344. (See 1,282,546.)

1,799,318, C. W. Rehback, Method of making a fish tail bit; 2,056,319, G. G. Harrington, Drill bit, D. C., W. D. Okla. (Oklahoma City), Doc. E 2066, *Reed Roller Bit Co.* v. *Green Head Bit & Supply Co.* 1,799,318 withdrawn by stipulation, defendant enjoined as to 2,056,319 Jan. 9, 1939.

1,805,754. (See 1,491,789.) 1,818,697. (See 1,282,546.)

1,835,505, J. I. Liner, Synchronous clock motor, C. C. A., 6th Cir., Doc. 7728, *The Hammond Clock Co.* v. *The Electric Auto-Lite Co.* Claims 9, 16, and 17 held invalid June 6, 1939.

1,847,033. (See 1,282,546.) 1,847,034. (See 1,282,546.)

1,847,036. (See 1,282,546.) 1,847,037. (See 1,282,546.)

1,848,468, A. H. Emery, Jr., Machine for testing the strength of materials (suit for declaratory judgment), D. C., E. D. Pa., Doc. 9963, *Tinius Olsen Testing Machine* v. *Baldwin Southwark Corp.* Consent decree dismissing action June 9, 1939.

1,850,214, C. M. O'Neil, Piston skirt expander, filed June 7, 1939, D. C., S. D. Calif., C. Div., Doc. 424, *R. J. Thexton Mfg. Co. et al.* v. *J. G. Caddell.*

1,854,823, Bertran & Bertran, Means for preparing holes for concrete footings, D. C., S. D. Calif., C. Div., Doc. E 796–R J, *B. E. Bertran et al.* v. *F. H. Hunt.* Claims 4 and 9 held invalid June 7, 1939.

1,859,593. (See 1,685,307.) 1,866,072. (See 1,700,246.)

1,868,100, C. B. Goodstein, Staple and method of driving same; 1,910,688, same, Staple, filed June 12, 1939, D. C., E. D. N. Y., Doc. 435, *C. I. Fager et al.* v. *C. B. Goodstein et al.*

1,883,245. (See 1,282,546.)

1,889,758. (See Re. 16,870.)

1,900,677. (See 1,756,043.)

1,904,496, 1,987,781, R. Maw, Hydraulic transmission system, D. C., S. D. N. Y., Doc. 3/51, *R. Maw* v. *Northern Pump Co., Inc.* Judgment dismissing complaint (notice June 12, 1939).

1,907,199. (See 1,540,628.) 1,908,493. (See 1,282,546.)

1,910,688. (See 1,868,100.)

1,916,586, Robinson & Collins, Electrolytic device; 1,938,464, 1,935,860, R. Robinson, same; Re. 19,370 (of 1,948,289), H. I. Danziger, Electrolytic condenser, D. C., S. D. N. Y., Doc. E 79/166, *Sprague Specialties Co.* v. *Solar Mfg. Corp.* Dismissed without prejudice (notice June 9, 1938).

1,928,042. (See 1,700,246.) 1,935,860. (See 1,916,586.)

1,938,464. (See 1,916,586.) 1,948,289. (See 1,916,586.)

1,978,362, E. L. Fonseca, Thermostatic regulator, D. C. Del., Doc. E 1217, *The Wilcolator Co.* v. *Sears, Roebuck & Co. et al.* Dismissed upon stipulation May 29, 1939. Doc. 24, *The Wilcolator Co.* v. *American Thermometer Co.* Decree as above.

1,987,781. (See 1,904,496.)

2,020,207, O. R. Platter, Chair, filed June 12, 1939, D. C., W. D. Pa., Doc. 376, *Mahoney Chair Co.* v. *C. J. Johnson.*

2,026,393, O. E. Linck, Ant trap, filed June 10, 1939, D. C., S. D. N. Y., Doc. 4/152, *Solicide Laboratories* v. *R. H. Harkins (Nott Mfg. Co.).*

2,027,841, F. Roth, Ham boiler, D. C., N. D. Calif. (San Francisco), Doc. —, *C. F. Roth* v. *Meat Packers Equipment Co. et al.* Bill and counterclaim, set-off and cross-complaint of defendants, dismissed without prejudice June 6, 1939.

2,056,319. (See 1,799,318.)

2,092,659, A. C. Stone, Termite shield, filed June 8, 1939, D. C., N. D. Tex. (Wichita Falls), Doc. 34, *A. C. Stone* v. *J. F. Patton.*

Re. 16,870, T. H. Nakken, Means for transforming light impulses into electric current impulses; 1,889,758, same, Means for transforming light impulses into current impulses, D. C., S. D. N. Y., Doc. 1/66, *Nakken Patents Corp.* v. *Western Electric Co., Inc., et al.* Consent order of discontinuance June 13, 1939.

Re. 18,771. (See 1,282,546.)

Re. 19,370. (See 1,916,586.)

Des. 84,886, A. Fazekas, House-number-plate; Des. 87,911, same, Illuminated house-number-plate, D. C., N. D. Calif. (San Francisco), Doc. E 4217, *A. Fazekas* v. *E. L. Reed et al.* Decree made final June 7, 1939. (Patents held valid; and infringed by Reed and Hansen; dismissed as to Budd; injunction).

Des. 87,911. (See Des. 84,886.)

Des. 105,929, Des. 106,260, P. Schlessel, Dress, D. C., S. D. N. Y., Doc. E 85/346, *New York Dress & Costume Co., Inc.*, v. *Longin Dress Co., Inc.* Consent decree for plaintiff (notice June 13, 1939).

Des. 106,260. (See Des. 105,929.)

Trade-Mark Registrations Canceled

172,000. Corsets. The La Resista Corset Company, Bridgeport, Conn. Registered August 21, 1923. Canceled July 28, 1939.

260,420. Leather glooves. Louis Meyers and Son, Inc., New York, N. Y. Registered August 20, 1920. Canceled July 28, 1939.

323,614. Automobile tires. The Armstrong Rubber Company, Incorporated, West Haven, Conn. Registered April 23, 1935. Canceled August 8, 1939.

341,550. Radio receiving sets. Ignition Service & Supply Company, Inc., Albany, N. Y. Registered December 8, 1936. Canceled July 28, 1939.

356,734. Knitted wear. Renart Sportswear Corp., New York, N. Y. Registered May 10, 1938. Canceled July 28, 1939.

367,896. Tire casings. The Armstrong Rubber Company, Inc., West Haven, Conn. Registered May 30, 1939. Canceled August 8, 1939.

Disclaimer

2,009,301.—*Frederich J. Rode* and *Meredith R. Hatch*, Toledo, Ohio. CLUTCH AND BRAKE CONTROL DEVICE. Patent dated July 23, 1935. Disclaimer filed August 11, 1939, by the inventors and the licensees, *E. W. Bliss Company* and *Toledo Machine & Tool Company.*

Hereby enter this disclaimer to and of each and every claim in the said patent.

BULLETIN OF DECISIONS OF PATENT OFFICE ON TRADE-MARKS, LABELS, AND PRINTS

RENDERED DURING JULY, 1939

REMINGTON RAND, INC., *v.* SECURITY THRIFT SUPPLIES CORP. *v.* HENRY P. DUNCKER (DOING BUSINESS AS SECURITY PRESS), Trade-Mark Interference No. 2918.

In a decision rendered July 11, 1939 (163 Ms. Dec. 302, 42 U. S. P. Q. 335), *First Assistant Commissioner Macklin* held that Remington Rand Inc., of Buffalo, N. Y., is entitled to registration of the mark "Security" as applied to index records, record holders and blank and printed cards, etc.

In reversing the Examiner of Trade-Mark Interferences who had dissolved the interference on the ground that the notation "Security" is descriptive of applicant's goods, he said:

"I cannot agree with the Examiner's premise and conclusion in respect to the descriptiveness of 'Security' as applied to the applicant's index records, record holders, printed cards and sheets.

"The two registrations here involved describe the goods in a manner clearly indicating that record sheets may be bound in books, and it makes small difference to my mind whether they are permanently bound or temporarily bound in so-called loose leaf book binders. In any event, it may be assumed they are held or secured in some manner when in use. If record cards are buttoned to a holding means, does the word 'Security' become more descriptive of those cards than it is of sheets or cards bound in books or in so-called loose leaf book binders? I cannot see how a special fastening means which allows easy removal and replacement would have the effect of making the word 'Security' more descriptive than it is of sheets bound in books. I recognize that the applicant's original selection of the word 'Security' was to suggest that its removable cards would not easily become displaced. On the other hand, the word 'Security' was selected by the registrants for suggestiveness under one of the other meanings of the word, and, incidentally, following the enactment of the Social Security Act. The applicant calls attention to the extensive definitions of the word 'Security' and the various uses given in Websters and Funk and Wagnalls dictionaries. It is difficult for me to picture a prospective purchaser desiring some record cards or sheets asking his stationer or supplier for 'Security' cards or sheets unless that were a trade-mark or trade-name designation of some specific article."

On the question whether the applicant had a trade-mark use, and on the question of priority, he said:

"From the exhibits and the testimony, particularly Exhibit 7 and testimony of Remington Rand Inc. (record pages 44–45), I think the use of the labels applied to packages of cards is a trade-mark use. As to the question of priority, I am satisfied from the record that many years prior to the first use by the senior registrant in 1936, Remington Rand Inc. and its predecessors applied the word 'Security' not only to cabinets and card holders, but to the visible record cards, and that such use has been continuous, and that it has been applied to millions of cards as stated by appellant's witnesses."

With respect to the contention of Security Press Corp. that the enactment of the Social Security Act and the fact that it is known by that name constitutes a bar to the registration of the mark by the applicant, he said:

"The passage of the act known as the Social Security Act does not, in my opinion, preclude the registration sought. Although it may be officially so known, and as stated in the code it may be properly cited as the 'Social Security Act', this does not in my opinion make the name 'Security' one which may not be registered or which is precluded from registration under the name clause of the trade-mark statute. In any event, 'Security' is not the full name of the act. Without the word 'Social' the word 'Security' as applied to a law might refer to any of many different forms of legislation from police codes to acts pertaining to banking or exchange. I see no question of public policy here involved."

KELVINATOR CORPORATION (NASH-KELVINATOR CORPORATION, ASSIGNEE, SUBSTITUTED) *v.* THE COOLERATOR COMPANY. Opposition No. 16,360.

In a decision rendered July 14, 1939 (163 Ms. Dec. 306, 42 U. S. P. Q. 338), *Assistant Commissioner Frazer* held that The Coolerator Company, of Duluth, Minn., is entitled to registration of the mark "Coolerator", displayed within a circle, for use on refrigerators, notwithstanding the existing registration to Kelvinator Corporation, of Detroit, Mich., of the mark "Kelvinator" applied to goods of the same descriptive properties.

Concerning the question of similarity of the marks, the Assistant Commissioner said:

"Upon authority of *Borg-Warner Corporation* v. *Easy Washing Machine Corporation* (C. C. P. A.), 104 Fed.(2d) 65, and *Kelvinator Corporation* v. *Norge Corporation*, 25 C. C. P. A. 857, 94 Fed.(2d) 384, I am constrained to agree with the Examiner that the trade-marks 'Kelvinator' and 'Coolerator' are not confusingly similar.

"In the Borg-Warner case, decided since the present appeal was argued, the Court of Customs and Patent Appeals held that 'Spiralator' and 'Rollator', applied to goods of the same descriptive properties, were not so similar as to be likely to cause confusion; and in the Kelvinator case the same ruling was made with regard to the trade-marks 'Aerolator' and 'Kelvinator'. In both cases the court pointed out that the suffix 'ator' is very common, and obviously is not the dominant feature of either mark. That is likewise true of the marks here under consideration, and certainly there is no confusing resemblance between the words 'Cooler' and 'Kelvin'."

P. BALLANTINE & SONS *v.* ZEMBEY MIWA, Oppositions Nos. 16,701 and 16,702.

In a decision rendered July 14, 1939 (163 Ms. Dec. 307, 42 U. S. P. Q. 384), *Assistant Commissioner Frazer* held that Zembey Miwa, of Tokyo, Japan, is entitled to registration of a representation of three interlinked rings as a trade-mark for soaps, especially toilet soap, and is also entitled to registration of the same mark for cod liver oil in the form of capsules, and concentrated cod liver oil, notwithstanding the prior registration of the same mark to P. Ballantine & Sons, of Newark, N. J., for use in connection with ale, beer and other malt liquors, as well as non-alcoholic beverages.

In affirming the decision of the Examiner of Trade-Mark Interferences dismissing the opposition on the ground that the goods of the parties are not of the same descriptive properties, he said:

"I entertain the same opinion, and I think it is so manifestly correct as to require neither argument nor citation of authorities in its support."

With reference to certain testimony adduced by opposer that in years gone by it had used the mark upon de-sizing material, which may have been of

the same descriptive properties as applicant's soap, he said:

"Such use, however, has been discontinued, nor was it alleged in the notice of opposition. Since 1934 opposer has applied its mark only to beer and ale."

S. PFEIFFER MANUFACTURING COMPANY *v.* REED DRUG COMPANY, INC., Opposition No. 17,296.

In a decision rendered July 15, 1939 (163 Ms. Dec. 309, 42 U. S. P. Q. 386), *First Assistant Commissioner Macklin* held that Reed Drug Company, Inc., of Miami, Fla., is not entitled to register the trade-mark "Qui-etts", in view of the prior registration and use by S. Pfeiffer Manufacturing Company, of St. Louis, Mo., of the mark "Quinarets" for a medicinal preparation in tablet form for the relief of colds, coughs, la grippe, headache, and malaria.

As to applicant's contention that because the syllable "Quin" appears as a prefix in a large number of registered marks it is open to the public and that no confusion would likely result from concurrent use of the marks involved, the First Assistant Commissioner said:

"The Examiner I think properly referred to the decision of the Court of Customs and Patent Appeals in *Pepsodent Co.* v. *Comfort Mfg. Co.*, 23 C. C. P. A. 1224, 83 F.(2d) 906, 472 O. G. 258 in holding that this contention may not be so established.

* * * * * * *

"It is possible to find many cases where marks have been held not likely to be confusing and which seem to lend considerable support to the applicant's contention for its right to register. A large number of such cases are cited and quoted from in the brief for Reed Drug Company, Inc. However, it seems to me that none of the cases is definitely controlling, and I agree with the Examiner of Trade-Mark Interferences that the practice required doubt to be resolved against the subsequent user, who, in this case, is the applicant."

With further reference to the likelihood of confusion, he said:

"I agree with the applicant that its product, intended for use exclusively by women for a definite specified purpose, would not likely be confused by persons of intelligence. However, I think this must be considered, that such an intelligent person would also need to be a careful person and that there are, or might be, many people who would be confused by the simultaneous use in the trade of the words 'Quinarets' and 'Qui-etts'."

THE BARBER COMPANY, INC., (BY CHANGE OF NAME, BARBER ASPHALT CORPORATION) *v.* THE CELOTEX CORPORATION, Opposition No. 17,292.

In a decision rendered July 17, 1939 (163 Ms. Dec. 311, 42 U. S. P. Q. 339), *Assistant Commissioner Frazer* sustained the opposition of The Barber Company, Inc., of Philadelphia, Pa., owner of the registered trade-mark "Utility" for roll roofing, to registration to The Celotex Corporation, of Chicago, Ill., of the same mark for structural fiber board.

After noting that the only question in issue is whether the respective goods are of the same descriptive properties, the Assistant Commissioner said:

"It is pointed out by applicant that roofing material and wall board differ considerably in structure and in use. They are, however, very closely related; and I cannot escape the conviction that a contractor, being familiar with opposer's roofing product, upon seeing or hearing of applicant's fiber board bearing the same trademark would be quite likely to assume that the two items had a common source of origin. That the goods are of the same descriptive properties within the meaning of the Trade-Mark Act I have no doubt, and that their sale under identical marks would lead to confusion seems at least reasonably probable."

HOLEPROOF HOSIERY CO. *v.* MAIDEN FORM BRASSIERE COMPANY, INC., Opposition No. 18,626.

In a decision rendered July 20, 1939 (163 Ms. Dec. 313, 42 U. S. P. Q. 387), *Assistant Commissioner Frazer* denied a petition of the applicant, Maiden Form Brassiere Company, Inc., of New York, N. Y., that the Examiner of Interferences be directed to grant applicant's motion to dismiss the opposition of Holeproof Hosiery Co., of Milwaukee, Wis.

After stating that the grounds of the motion were that applicant's mark "Ariette" and that opposer's mark "Ariel" are clearly not confusingly similar and that opposer's mark is merely geographical, the Assistant Commissioner said:

"Both marks are applied to merchandise of the same descriptive properties, and it seems to me that the likelihood of confusion between them is not so clearly absent as to warrant the dismissal of the opposition on motion. As to the second ground of the motion it need only be observed that opposer's mark is registered under the provisions of the act of February 20, 1905, and its validity is not open to question in an opposition proceeding. *Englander* v. *Continental Distilling Corporation*, 25 C. C. P. A. 1022, 95 Fed.(2d) 320."

VENUS FOUNDATION GARMENTS, INC., *v.* MAIDEN FORM BRASSIERE COMPANY, INC., Opposition No. 18,661.

In a decision rendered July 20, 1939 (163 Ms. Dec. 314, 42 U. S. P. Q. 340), *Assistant Commissioner Frazer* denied a petition of the applicant, Maiden Form Brassiere Company, Inc., of New York, N. Y., in so far as it sought reversal of the decision of the Examiner of Interferences denying a motion of petitioner for judgment, but granted the petition to the extent of ordering a certain allegation in the notice of opposition stricken from the record.

With reference to the allegation in question which was to the effect that opposer has a subsidiary, Nature's Rival Co., engaged in the same business, the distinguishing part of whose corporate name, to wit, "Nature's" is substantially identical with the term "Naturna" which the applicant seeks to have registered, he quoted from the decision *Packard Motor Car Co.* v. *Lektro Shave Corporation*, 496 O. G. 1124, and said:

"The mere fact that Nature's Rival Co. is alleged to be opposer's subsidiary is of no consequence. The two corporations are separate legal entities, and neither may oppose registration of the other's name."

With reference to the motion for judgment which was based on the contention that applicant's mark "Naturna" is not confusingly similar to the mark "Nature's Rival" relied on by opposer and that the latter is merely descriptive of the goods and is public juris, he said:

"In denying the motion to dismiss I do not think the Examiner's ruling was so clearly wrong as to warrant its reversal on petition. It is at least possible that opposer may be able to establish confusing similarity between the marks in question; and as opposer's mark is registered under the act of February 20, 1905, its alleged descriptiveness is not material in a proceeding of this character, and may not properly be considered either on motion or at final hearing. *Englander* v. *Continental Distilling Corporation*, 25 C. C. P. A. 1022, 95 Fed.(2d) 320."

Concerning the question whether opposer would be permitted to take certain testimony, he said:

"The Patent Office will not presume to prescribe the character of testimony that a party may take, but certainly if testimony is taken by the opposer that is immaterial to the issues raised by the pleadings it will not be considered in disposing of the opposition."

MAIDEN FORM BRASSIERE COMPANY, INC., *v.* HOLEPROOF HOSIERY CO., Cancellation No. 3527.

In a decision rendered July 20, 1939 (163 Ms. Dec. 316, 42 U. S. P. Q. 340), *Assistant Commissioner Frazer* denied a petition of Maiden Form Brassiere Company, Inc., of New York, N. Y., that the Examiner of Interferences be required to render a decision on its motion for judgment on the record to cancel the registration of the mark "Ariel" issued to Holeproof Hosiery Co., of Milwaukee, Wis.

With reference to petitioner's statement that the term is the name of certain cities, municipalities, villages, towns, lakes, and the like, and that no amount of testimony can alter the fact that the term "Ariel" is merely geographical, the Assistant Commissioner said:

"Were the latter statement true I would be inclined to agree with counsel that the motion for judgment should be granted and the case thus disposed of without more. But I am not convinced that it is necessarily true, nor do I think the rule against registration of geographical words is as absolute as counsel appears to contend."

He then referred to his decision in *Ex parte The Glidden Co.*, 501 O. G. 872, in which he had held that the term "Alpha" although the name of a small town in New Jersey, did not have sufficient geographical significance to prohibit its registration as a trade-mark, and said:

"Without prejudging the question here in issue, it would seem fair to say that the word 'Ariel' may possibly fall within the same category. Certainly upon the showing before me I am unwilling to say, as a matter of law, that respondent's mark has 'a generally accepted geographical meaning'."

NATIONAL SODA STRAW COMPANY *v.* GLASSIPS INC., Cancellation No. 3312.

In a decision rendered July 20, 1939 (163 Ms. Dec. 317, 42 U. S. P. Q. 339), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Interferences dismissing a petition for cancellation of the registration of the term "Glassips" applied to transparent drinking straws.

With reference to petitioner's contention that the term "Glassips" is a mere contraction of the phrase "glass sippers" and is merely descriptive or deceptively misdescriptive of the transparent cellophane straws to which registrant applied the mark, the Assistant Commissioner said:

"One meaning of the word 'glass' is a substance having the appearance of glass, and I am inclined to agree with appellant that the term 'glass sippers' is merely descriptive of transparent drinking straws.

"In my opinion the record fails to establish that persons referring to drinking straws or sippers by the word 'sips' would be so understood, and it seems to me it would be improper to assume that the word 'sips' would be recognized as an abbreviation for the word 'sippers' or as denoting drinking straws. Accordingly, when I consider the word 'Glassips' in its entirety as applied to transparent cellophane drinking straws I do not consider the word to be merely descriptive thereof, or to be deceptive or misdescriptive of these goods."

DEW COSMETICS, INCORPORATED (NOW BY CHANGE OF NAME, VANDY, INC.) (PEARSON PHARMACAL COMPANY, INC., ASSIGNEE, SUBSTITUTED) *v.* COMFORT MANUFACTURING COMPANY, Trade-Mark Interference No. 2988.

In a decision rendered July 21, 1939 (163 Ms. Dec. 318, 42 U. S. P. Q. 388), *Assistant Commissioner Van Arsdale* affirmed the decision of the Examiner of Interferences dissolving the interference on the ground that registration to the senior party, Comfort Manufacturing Company, of Chicago, Ill., is barred by certain prior registrations issued on applications filed prior to the earliest dates of use stated in either of the applications in interference.

With reference to the right of the junior party to registration of its mark, the Assistant Commissioner said:

"I also consider that for like reasons these same prior registrations are statutory bars to granting registration on the junior party's application in interference. That the junior party now claims ownership of these registrations is immaterial, for the reason that the date of the assignment under which the junior party claims title to the prior registrations is subsequent to the filing date of the junior party's application here involved."

OSTREX COMPANY, INC., *v.* EUROMERICA MEDICAL PRODUCTS, INC., Opposition No. 17,022.

In a decision rendered July 21, 1939 (163 Ms. Dec. 319, 42 U. S. P. Q. 389), *Assistant Commissioner Frazer* denied a motion of Ostrex Company, Inc., of New York, N. Y., that trade-mark registration No. 343,513, to Sylvain Rosengart be cancelled.

After noting that Ostrex Company, Inc., had successfully opposed the application of Euromerica Medical Products, Inc., of New York, N. Y., for registration of the word "Optrex" as a trade-mark for a lotion for the eyes and that the applicant had in answer to the opposition pleaded ownership of the registration of the same word for similar goods to Rosengart now sought to be cancelled, the Assistant Commissioner said:

"Applicant, however, failed to prove such ownership; so that to grant the present motion would be in effect to cancel the registration of a stranger to the proceeding, without notice or opportunity to defend.

"Whether a registration owned by the losing party to an opposition proceeding may, under any circumstances, be canceled on motion of the winning party, is a question which need not be determined here, and upon which I express no opinion."

STERLING PRODUCTS (INCORPORATED) *v.* THE DANDRO-NOX COMPANY, Opposition No. 17,060.

In a decision rendered July 28, 1939 (163 Ms. Dec. 325, 42 U. S. P. Q. 391), *Assistant Commissioner Frazer* affirmed a decision of the Examiner of Trade-Mark Interferences sustaining the opposition of Sterling Products (Incorporated), of Wheeling, W. Va., to registration to The Dandro-Nox Company, of Baltimore, Md., of a trade-mark in which the term "Dandro-nox" is the dominating feature.

After noting that the mark of the applicant is used in connection with a scalp treatment preparation and that many years before applicant's first

date of use the word "Danderine" had been registered to the opposer for substantially the same goods, he said:

"Applicant's mark is composite and must be considered as a whole; but the term 'Dandro-nox' is outstandingly its dominating feature, and applicant's goods would necessarily be known and called for by purchasers simply as 'Dandro-nox.' That this notation too nearly resembles opposer's mark 'Danderine' for both to be used on identical merchandise of the character here involved without likelihood of confusion I have no doubt."

EX PARTE NEW YORK EVENING JOURNAL, INC., Serial No. 400,432.

In a decision rendered July 31, 1939 (163 Ms. Dec. 326, 42 U. S. P. Q. —), *Assistant Commissioner Frazer* affirmed the refusal of the Examiner of Trade-Marks to register the notation "New York Journal and American" under the act of February 20, 1905, as a trade-mark for a daily newspaper, on the ground that the terms "New York" and "American" are geographical and the word "Journal" is descriptive of the goods.

After noting that applicant did not dispute the ruling of the Examiner that the mark sought to be registered is merely a combination of nonregistrable words, which combinations, under the well established practice, are not registrable, but urged that the application should be granted because the notations "New York Evening Journal" and "New York American" have previously been registered to applicant, he said:

"In support of this argument counsel cite several old Patent Office decisions to the general effect that after a mark has once been registered its owner is entitled to the benefit of any reasonable doubt as to the registrability of the same or a closely similar mark upon a subsequent application to register. I think that is a sound rule, but I am unable to apply it here because I can find no room for doubt. To my mind applicant's mark as presented is clearly and unquestionably nonregistrable."

EX PARTE THOMAS TAYLOR & SONS, INC., Serial No. 410,193.

In a decision rendered July 31, 1939 (163 Ms. Dec. 327, 42 U. S. P. Q. —), *Assistant Commissioner Frazer* affirmed a refusal of the Examiner of Trade-Marks to register a mark consisting of a silhouette of a shoe bearing the notation "ShuGor" in reverse printing, for use in connection with "narrow elastic fabrics for use in the making of elastic inserts or gores in footwear and other articles of apparel", on the ground that the mark is descriptive of the goods to which it is applied.

He quoted from applicant's argument to the effect that registration of the mark is not sought for "shoe gores" but for elastic fabrics or inserts applicable also to other articles of apparel and said:

"This statement is not entirely consistent with the record. The specimen labels filed with the application, 'showing the trade-mark as actually used by applicant upon the goods', display the mark followed by the words 'is the highest grade of elastic shoe gore'. It is therefore immaterial that applicant's product is also adapted to other uses."

Concerning the question of descriptiveness, he said:

"Having disclaimed the word 'Shu', which is obviously a misspelling of the word 'shoe', and as used in applicant's mark is clearly descriptive, it is difficult for me to understand upon what theory applicant considers the pictorial equivalent of that word to be registrable. If the word is descriptive so is the picture. *In re Canada Dry Ginger Ale, Inc.*, 24 C. C. P. A. 804, 86 Fed.(2d) 830. If the mark consisted merely in the representation of a shoe in association with the word 'Gore' or 'Gor' its descriptiveness would be clear beyond argument; and the addition of the word 'Shoe' or 'Shu' does not, in my opinion, alter that situation in the slightest degree. If anything it accentuates the descriptive significance of the picture."

TRADE-MARKS

OFFICIAL GAZETTE, AUGUST 29, 1939

[VOL. 505. No. 5]

The following trade-marks are published in compliance with section 6 of the act of February 20, 1905, as amended March 2, 1907. Notice of opposition must be filed within thirty days of this publication.

Marks applied for "under the ten-year proviso" are registrable under the provision in clause (b) of section 5 of said act as amended February 18, 1911.

As provided by section 1 of said act, a fee of ten dollars must accompany each notice of opposition.

CLASS 1

Raw or Partly Prepared Materials

Ser. No. 408,938. HARRY C. WOLFENDEN, doing business as R. Wolfenden & Sons, Attleboro, Mass. Filed July 27, 1938.

FLEKDYE

For Fibres, Sliver, Slubbing, and Roving.
Claims use since Feb. 22, 1938.

Ser. No. 418,262. E. W. PARKS COMPANY, Worcester, Mass. Filed Apr. 14, 1939.

PAR-TAN

The word or suffix "Tan" is disclaimed apart from the mark.
For Sole Leather.
Claims use since July, 1933.

Ser. No. 420,474. COLLINS AND AIKMAN CORPORATION, Philadelphia, Pa. Filed June 14, 1939.

LACWUL

For Tops and Rovings Made of Synthetic Textile Fibers

Obtained from Casein.
Claims use since June 2, 1939.

Ser. No. 420,723. THE OHIO LEATHER COMPANY, Girard, Ohio. Filed June 20, 1939.

THE OHIO LEATHER COMPANY
Sani-Calf

Applicant disclaims "The Ohio Leather Company" and "Calf" apart from the mark.
For Leather.
Claims use since June 1, 1939.

Ser. No. 420,740. VANDEWEGHE TRADING CORP., New York, N. Y. Filed June 20, 1939.

KAYAK

For Fur Skins.
Claims use since May 20, 1939.

Ser. No. 420,955. HYGEA RESEARCH CORPORATION, New York, N. Y. Filed June 26, 1939.

Antiseptized

For Leather.
Claims use since June 1, 1939.

CLASS 2

Receptacles

Ser. No. 408,934. VICTOR METAL PRODUCTS CORPORATION, New York and Brooklyn, N. Y. Filed July 26, 1938.

SINGLETIN

For Capless Collapsible Tubes Sold to the Trade Empty and Open at One End.
Claims use since July 5, 1938.

Ser. No. 420,801. BEMIS BRO. BAG COMPANY, St. Louis, Mo. Filed June 22, 1939.



No claim is made to the words "Waterproof Bags" apart from the mark.
For Bags Made from Laminated Material Composed of Layers of Textile and Paper.
Claims use since Jan. 3, 1939.

Ser. No. 421,251. ODORA COMPANY, INC., New York, N. Y. Filed July 3, 1939.



For Paperboard or Corrugated Paperboard Storage Receptacles and Mothproof Bags.
Claims use since Oct. 6, 1938.

CLASS 3

Baggage, Animal Equipments, Portfolios, and Pocketbooks

Ser. No. 419,024. SEBASTIAN S. KRESGE, doing business as Kresge Department Store, Newark, Newark, N. J. Filed May 3, 1939.

KREST

For Handbags, Trunks.
Claims use since June 20, 1929.

CLASS 4

Abrasive, Detergent, and Polishing Materials

Ser. No. 407,082. SANTIAGO ALVAREZ, doing business as Alvarez Manufacturing Company, Laredo, Tex. Filed June 4, 1938.

ALVAREZ SUDDEN CLEANER ASC

No claim is made to the words "Alvarez" and "Sudden Cleaner" apart from the mark.
For General Cleaner.
Claims use since May 1, 1935.

Ser. No. 419,209. EARL O. MEYER, doing business as Moe-Nade Laboratories, Denver, Colo. Filed May 8, 1939.

MOE-NADE

For Preparation for Cleaning and Polishing Glass and Windows.
Claims use since Sept. 1, 1938.

Ser. No. 419,877. PHILADELPHIA WHOLESALE DRUG COMPANY, Philadelphia, Pa. Filed May 26, 1939.

Dcuco

For Hard Water Soap and Lavender Shaving Cream.
Claims use since May 1, 1932, on said soap; since June 30, 1931, on said cream.

Ser. No. 420,737. THE LANITT CO., Boston, Mass. Filed June 20, 1939.

HOL

For Soap.
Claims use since December, 1938.

Ser. No. 420,872. GEORGE D. PICKRELL, doing business as Geo. D. Moore, Chicago, Ill. Filed June 23, 1939.

TRI-SCATT

For Wax Remover.
Claims use since May 31, 1939.

Ser. No. 421,168. LOUIS EARLE TIMSON, doing business as Timson's, Boston, Mass. Filed June 30, 1939.

LEATHERLUBE

For Compound for Treating or Dressing the Uppers and Soles of Shoes, and Other Leather Products, for the Purpose of Increasing Flexibility, Water Resistance, and Friction Resistance, the Compound Being Prepared in Liquid Form for Retail Distribution.
Claims use since July 1, 1938.

CLASS 6

Chemicals, Medicines, and Pharmaceutical Preparations

Ser. No. 392,896. RAY SHIPMAN, doing business as Mary Lowell Laboratories, Tippecanoe City, Ohio, assignor to House of Lowell, Incorporated, Tippecanoe City, Ohio, a corporation of Ohio. Filed May 17, 1937.

Mary Lowell



The portrait is fanciful. No claim is made to the name "Mary Lowell" apart from the mark.
For Toilet Articles and Cosmetics Including Creams, Tonics, Powders, Lotions, Rouge, and Lipstick.
Claims use since June 1, 1932.

Ser. No. 418,598. PLOUGH, INC., Memphis, Tenn. Filed Apr. 22, 1939.

PENETRO

For Cough Syrup, Laxative Quinine Tablets, Cough Drops, Cold Capsules, Antiseptic (Mouth Wash), Nose Drops, Inhaler and a Medicinal Preparation—Namely, Mutton Suet Salve for External Use in the Treatment of Colds, Croup, Rheumatic Pains, Lumbago, Neuralgia, Sprains and Muscular Soreness, Bruises, Boils, Insect Bites, Frost-Bite, Chapped Hands, Sunburn, and Minor Burns and Scalds.
Claims use since Jan. 1, 1914.

Ser. No. 418,687. LLEWELLYN LABORATORIES, INC., Philadelphia, Pa., assignor, by mesne assignments, to Roses and Myrrh Inc., Philadelphia, Pa., a corporation of Pennsylvania. Filed Apr. 25, 1939.

Llewellyn's

ROSAMYR

For Solution for Human Hygiene, Such as Mouthwash, Astringent, or Antiseptic.
Claims use since Apr. 30, 1931.

Ser. No. 419,811. OTTO A. KOHL, doing business as Bupane Gas Company, Cedar Rapids, Iowa. Filed May 25, 1939.



The words "Cedar Rapids, Iowa" and "Gas" are disclaimed apart from the mark.
For Liquefied Petroleum Gas.
Claims use since Dec. 15, 1933.

Ser. No. 420,199. C. G. WHITLOCK CO., Springfield, Ill. Filed June 5, 1939.



No claim is made to the words "Balm", "Arterial Fluid", and "Springfield, Illinois" or to the outline of the label per se. The drawing is lined for black, gold, and red.
For Embalming Fluid.
Claims use since May 20, 1938.

Ser. No. 420,961. MAIN LABORATORIES, INC., Olympia, Wash. Filed June 26, 1939.

MAIN MP PROCESS

Main Process

For Liquid Gas, Particularly Liquid Chlorine Gas.
Claims use since October, 1934.

Ser. No. 420,983. WILLIAM R. WARNER & CO., INC., New York, N. Y. Filed June 26, 1939.

THIAZYME

For Elixir Containing Vitamin B_1 and Pepsin in a Palatable Aromatic Lactated Vehicle, Artificially Colored.
Claims use since June 16, 1939.

Ser. No. 420,989. HERNANDO BUENO DELGADO, Cali, Colombia. Filed June 27, 1939.



For Anthelmintic and Vermifuge.
Claims use since Apr. 13, 1934.

Ser. No. 421,082. LOUIS M. GOLDMAN, doing business as Lou-Bob Company, Chicago, Ill. Filed June 29, 1939.

PREFERRED

For Denatured Alcohol Used for Anti-Freeze.
Claims use since June 15, 1939.

Ser. No. 421,135. FIDEL DRUG COMPANY, INC., New York, N. Y. Filed June 30, 1939.

F. D. C.

For Acriflavine Hydrochloride; Agar and Oil; Alkaline Aromatic Tablets; Aminophylline; Aminopyrine; Ammonium Chloride Tablets; Analgesic Balm; Anesthesin; Anodyne Tablets; Ant-Acid Tablets; Aspirin; Barbital; Barbital Sodium; Beef, Iron and Wine; Bichloride of Mercury; Bismuth and Bisodium Powder and Tablets; Blaud-Mass Pills; Bone Marrow Powder; Brain Substance Powder; Brewer's Yeast Tablets; Brown Lozenges; Burn Ointment; Calcium Gluconate; Calcium Lactate Tablets; Calomel Tablets; Calomel and Soda Tablets; Calomel and Wintergreen; Cascara Sagrada Extract Tablets; Cascare Compound Pills; Cascarin Compound Tablets; Crystalline Vitamin "C"; Chloramine Tablets; Cinchophen; Citrates and Carbonates; Cod Liver Oil; Cod Liver Oil Vitamin Concentrate Tablets; Compound Cathartic Pills; Corpus Luteum; Coryza Tablets; Calomel; Rhubarb and Colocynth Capsules and Tablets; Diallyl Barbituric Acid; Dicalcium Phosphate Tablets; Dog Capsules; Douche Powder; Elixir Acytal; Elixir Aminopyrine; Elixir Barbital; Elixir Cramp Bark; Elixir Creosote and Terpin Hydrate; Elixir Enzymes; Elixir Iron, Quinine and Strychnine; Elixir Lactated Pepsin; Elixir Bandelic Acid; Elixir Phenobarbital; Elixir Terpin Hydrate; Elixir Three Bromides; Emmenagogue Pills; Emulsified Nasal Drops; Ephedrine Alkaloid; Ephedrine Hydrochloride, Ephedrine Inhalant; Ephedrine Jelly; Ephedrine Sulfate; Epinephrine Hydrochloride Solution; Epinephrine Solution; Ergot, Fluid Extract; Ethyl Chloride; Fig Syrup; Haarlem Oil Capsules; Halibut-Cod Liver Oil; Vitamin Concentrate Capsules A—B—D—G; Viosterol in Oil; Hepatic Salt; Hexamethylenamine; Ichthammol, Iron and Ammonium Citrates Capsules; Ivy Lotion; Kava-Kava and Santal Capsules; Laxative Quinine Tablets; Malt Extract; Mammary Substance; "Mercurochrome"; Methanamine and Soda Acid Phosphate Tablets; Methanamine Phospho Tablets; Methylene Blue and Cubes Pills; Milkogar; Milk of Magnesia; Magnesia Tablets; Mineral Oil; Mixed Gland Tablets; Mustard Balm; Neocinchophen; Ointments; Orchic Substance; Ovarian Substance; Ovarian, Pituitary and Thyroid Tablets; Ovarian Residue; Oxgall, Powdered Extract; Oxyquinoline Sulfate; Pancreas, Whole Substance; Pancreatin; Parathyroid Tablets and Powder; Pepsin; Phenacetin; Salol; Pheno Barbidon; Phenobarbital Phenobarbital Sodium; Pituitary Substance; Potassium Chlorate Tablets; Potassium Permanganate Tablets; Procaine Hydrochloride; Prostate Substance; Psyllium Seed; Puppy Capsules; Quinine Sulfate; Rennin; Rhinitis Tablets; Rhubarb and Soda Tablets; Saccharin; Saccharin Diabetic Tablets; Salicylate of Antipyrine; Salol Tablets; Silver Protein; Soda Mint Tablets; Soda Mint and Pepsin Tablets; Sodium Bicarbonate Tablets; Sodium Chloride Tablets; Sodium Perborate; Sodium Phosphate; Sodium Salicylate Tablets; Solution Aminophylline; Solution Sodium Phosphate Compound, Ergot and Apiol; Castor Oil; Cod Liver Oil and Creosote Capsules; Copaiba; Methylene Blue; Santal and Copaiba; Salol, Santal and Cubeb; Salol, Copaiba and Cubeb; Santal Oil; Santal, Copaiba and Salol Pearls; Stainless Iodine Ointment; Sulfanilamide Tablets; Sulfur and Cream of Tartar Lozenges; Sun Tan Oil; Suprarenal; Glycerin Suppositories; Hemorrhoidal Suppositories; Vaginal Suppositories; Syrup Ephedrine Sulfate; Syrup Ephedron with Ethyl Morphine Hydrochloride; Syrup Ephedron; Syrup Mandelic Acid; Syrup of Pepsin and Senna; Syrup Potassium Guaiacolsulfonate; Theobromine and Phenobarbital Tablets; Theobromine and Phenobarbital with Potassium Iodide Tablets; Three Bromides (Effervescent); Thymol Iodide, Powder; Thymus Substance; Thyroid Tablets; Thyroid and Ovarian Tablets; Tincture of Iodine; Vaporizing Balm; Wheat Germ Oil; Yeast and Iron Liquid; Yeast and Iron Tablets; Yeast, Iron and Nux Vomica Tablets; and Yohimbin Hydrochloride.
Claims use since October, 1938.

Ser. No. 421,261. SEARS, ROEBUCK AND CO., Chicago, Ill. Filed July 3, 1939.

Moth-Off

For Moth-Proofing Solution.
Claims use since Mar. 12, 1939

Ser. No. 421,332. JACQUES WOLF & CO., Clifton, N. J. Filed July 6, 1939.

LUPOMIN

For Cationic Active Softening Agent and Finish for All Textile Fibres.
Claims use since May 1, 1939.

Ser. No. 421,333. JACQUES WOLF & CO., Clifton, N. J. Filed July 6, 1939.

LUPOSEC

For Waterproof Finish for All Textile Fibres.
Claims use since May 1, 1939.

Ser. No. 421,334. JACQUES WOLF & CO., Clifton, N. J. Filed July 6, 1939.

ORANAP

For Chemical Preparation Used for Dyeing and Penetration of Textile Fibres.
Claims use since May 5, 1939.

Ser. No. 421,373. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed July 8, 1939.

DN

For Insecticidal Compositions.
Claims use since June 13, 1939.

Ser. No. 421,374. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed July 8, 1939.

DN-DRY MIX

No claim is made to the words "Dry Mix".
For Insecticidal Compositions.
Claims use since June 13, 1939.

Ser. No. 421,375. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed July 8, 1939.

DN-OIL

No claim is made to the word "Oil".
For Insecticidal Compositions.
Claims use since June 13, 1939.

Ser. No. 421,376. THE DOW CHEMICAL COMPANY, Midland, Mich. Filed July 8, 1939.

DN-SULFUR DUST

No claim is made to the words "Sulfur Dust".
For Insecticidal Compositions.
Claims use since June 13, 1939.

CLASS 8

Smokers' Articles, Not Including Tobacco Products

Ser. No. 419,000. M. LINKMAN & COMPANY, Chicago, Ill. Filed May 1, 1939.

OLYMPIAN

For Smoking Pipes.
Claims use since 1929.

Ser. No. 419,732. THE PARKER PIPE COMPANY LIMITED, London, England. Filed May 23, 1939.

PARKER'S

P

No claim is made to the surname "Parker's" apart from the mark.
For Tobacco Pipes, Cigar Holders, and Cigarette Holders Not of Precious Metal or of Imitation Precious Metal.
Claims use since June 20, 1923.

CLASS 10

Fertilizers

Ser. No. 419,172. HERMANUS PIETER BENDIEN, Naarden, Netherlands. Filed May 8, 1939.



For Artificial Fertilizer, a Mixture Containing Nitrogen-Phosphoric Acid and Potassium.
Claims use since Nov. 12, 1929.

CLASS 12

Construction Materials

Ser. No. 414,295. SHEPARD HERMAN, Boston, Mass. Filed Dec. 29, 1938.



All Notations Except "Hi-Lo" applicant disclaims apart from the mark.
For Thermal Insulating Material.
Claims use since June 1, 1938.

Ser. No. 418,861. G. W. GAIL, INC., Baltimore, Md. Filed Apr. 27, 1939.

Pi-R

For Sealing Strips of the Mechanical Type to Be Used in Building Structures and Devices for Providing an Air, or Weather Tight Seal Between Relatively Movable Parts.
Claims use since Oct. 23, 1936.

Ser. No. 419,339. IGOE BROTHERS, INC., Newark, N. J. Filed May 12, 1939.



For Rock Wool and Roofing Material.
Claims use since January, 1905.

Ser. No. 420,419. I. F. LAUCKS, INC., Seattle, Wash. Filed June 12, 1939.

DRIPLY

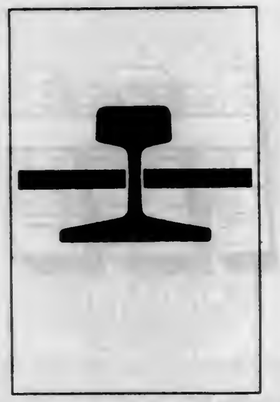
For Plywood, Insulating Board, and Wall Board.
Claims use since June 1, 1939.

Ser. No. 420,427. PACIFIC LUMBER INSPECTION BUREAU, Seattle, Wash. Filed June 12, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.



For Lumber, Woodwork, Paneling, Flooring, and Other Standard Saw and Planing Mill Products.
Claims use since June, 1932.

Ser. No. 420,430. RAIL STEEL BAR ASSOCIATION, Chicago, Ill. Filed June 12, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.



For Rail-Steel Concrete Reinforcement Bars.
Claims use since Dec. 11, 1937.

Ser. No. 420,743. ARMSTRONG CORK COMPANY, Lancaster, Pa. Filed June 21, 1939.

MONOCORK

For Ingredients for the Preparation of a Plastic Composition Comprising Latex and a Hydraulic Setting Cementitious Material.
Claims use since June 30, 1938.

Ser. No. 420,799. AMERICAN ABRASIVE METALS COMPANY, New York, N. Y. Filed June 22, 1939.

Fera-Flex

For Rubber Compound with Which Other Ingredients are Mixed to Form a Product for Use as a Flooring, a Material for Bonding a Tread to Wood, a Corking, and for Other Similar Uses.
Claims use since June 9, 1939.

Ser. No. 420,800. ASPHALT PROCESS CORPORATION, New York, N. Y. Filed June 22, 1939.

DUCTIFALT

For Liquid Asphalt Cut Back which May or May Not Contain Fillers.
Claims use since May 24, 1939.

Ser. No. 420,824. LEWIS BOLT & NUT COMPANY, Minneapolis, Minn. Filed June 22, 1939.

LIFE LINE

For Guard Rail Cables, Posts, Offsets, Expansion Take-ups, and Miscellaneous Fittings Used in Connection with Highway Guard Rails.
Claims use since Aug. 1, 1938.

CLASS 13

Hardware and Plumbing and Steam-Fitting Supplies

Ser. No. 413,252. THERMEK CORPORATION, Chicago, Ill. Filed Nov. 28, 1938.



For Heat Exchange Tubing.
Claims use since June 10, 1938.

Ser. No. 414,691. THE DILL MANUFACTURING COMPANY, Cleveland, Ohio. Filed Jan. 11, 1939.



The mark consists of a circumferential green band. The representation of the goods is disclaimed as forming any part of the mark.
For Valve Insides.
Claims use since Dec. 1, 1938.

Ser. No. 414,734. GENERAL MOTORS CORPORATION, Detroit, Mich. Filed Jan. 12, 1939.

MODULEX

For Expansion Valves.
Claims use since Dec. 6, 1938.

Ser. No. 416,485. STARLINE INC., Harvard, Ill. Filed Feb. 27, 1939.



For Metal Stalls, Curb Clamps, Alignment Devices for Aligning Cattle in Stalls, Stanchions, Stock Drinking Bowls for Gravity and Pressure Water Systems, Metal

Valves for Water Systems, Cement Anchors, Rust Shields for Stall Partitions, Stall Partition Sockets, Adjustable Arms for Stalls, Adjustable Arms for Special Width Stalls Attaching to Steel Columns, Rust Proof Column Savers, Manger Divisions, Manger Guard Rails, Neck Chains, Water-Seal Drains, Cane Bolts, Gable Door (Sliding) Tracks and Hangers, Milk Can Racks, Up-and-Over Garage Door Hardware, Horse Stall Racks, Horse Stall Guards and Fixtures, Hay Chute Door (Sliding) Tracks and Hangers, Milking Stalls, Washing Stalls for Cows, California-Type Milking Panels, Lever-Operated Stanchions, Pipe Line Strainers.

Claims use since March, 1931.

Ser. No. 418,561. BOWDEN (ENGINEERS) LIMITED, London, England. Filed Apr. 22, 1939.

BOWDENIN

For Flexible Tubing All Being Goods Made of Ordinary Metal.

Claims use since Apr. 20, 1938.

CLASS 14

Metals and Metal Castings and Forgings

Ser. No. 420,842. AMERICAN SMELTING AND REFINING COMPANY, New York, N. Y. Filed June 23, 1939.

BODYRITE

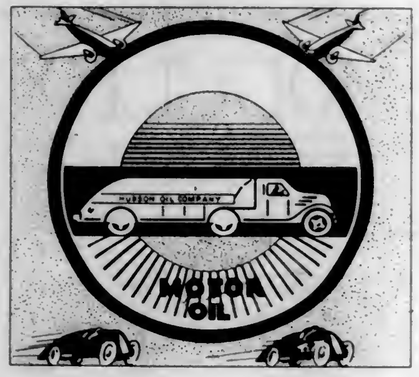
For Solder.

Claims use since May 1, 1939.

CLASS 15

Oils and Greases

Ser. No. 407,549. HUDSON OIL CO., Kansas City, Kans. Filed June 16, 1938.

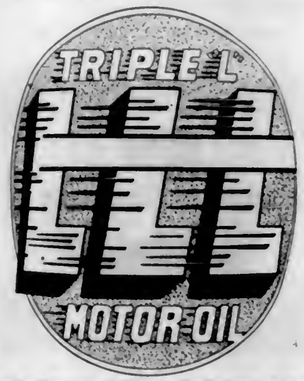


The words "Motor Oil" are disclaimed apart from the mark.

For Lubricating Oil.

Claims use since Jan. 31, 1936.

Ser. No. 413,971. HUDSON OIL CO., Kansas City, Kans. Filed Dec. 17, 1938.



The words "Motor Oil" are disclaimed apart from the mark.

For Lubricating Oil.

Claims use since Aug. 1, 1937.

Ser. No. 420,027. STRAUSS STORES CORP., Maspeth, L. I. N. Y. Filed May 31, 1939.

TRAVELUBE

For Lubricating Oils and Greases for Motor Vehicles, Hydraulic Brake Oils, Crank Case Oils, Shock-Absorber Oils, and Penetrating Oils.

Claims use since March, 1937.

CLASS 16

Paints and Painters' Materials

Ser. No. 420,028. I. MAYER STRAUSS, doing business as Admiral Products Co., Maspeth, L. I. N. Y. Filed May 31, 1939.

Lastex

For Paints in Ready Mixed Form and Varnishes.

Claims use since Feb. 18, 1938.

Ser. No. 420,121. IRA A. WATSON COMPANY, Knoxville, Tenn. Filed June 2, 1939.

SECURITY

For Ready Mixed Paints.

Claims use since May, 1932.

CLASS 17

Tobacco Products

Ser. No. 421,019. ENRICO CIGAR COMPANY, New York, N. Y. Filed June 27, 1939.

ENRICO

For Cigars.

Claims use since Feb. 26, 1936.

CLASS 19

Vehicles, Not Including Engines

Ser. No. 409,177. WINDSOR-LLOYD PRODUCTS, INC., Wilmington, Del. Filed Aug. 2, 1938.



For Bicycles.

Claims use since June 1, 1938.

Ser. No. 415,070. BOUTELLS CORPORATION, Minneapolis, Minn. Filed Jan. 21, 1939.



No claim is made to the words "Sport Goods" apart from the mark.

For Row Boats and Motor Boats and Canoes.

Claims use since Oct. 25, 1938.

Ser. No. 416,650. ANTONIO GENTILE AND NICHOLAS A. MARGIOTTA, Brooklyn, N. Y. Filed Mar. 3, 1939.

HIT-RUN

For Vehicle Wheels.

Claims use since Feb. 7, 1939.

Ser. No. 417,420. UNITED AIRCRAFT CORPORATION, East Hartford, Conn. Filed Mar. 23, 1939.

SYNCROMATIC

For Aircraft Propellers, Parts, and Attachments Therefor.

Claims use since Feb. 9, 1939.

CLASS 21

Electrical Apparatus, Machines, and Supplies

Ser. No. 400,469. REMINGTON RAND INC., Buffalo, N. Y. Filed Dec. 4, 1937. Under section 5b of the act of 1905 as amended in 1920.

REMINGTON

Applicant is the owner of U. S. trade-mark registration Ct. #368,774 issued June 27, 1939, under the 10-year proviso of the act of Feb. 20, 1905.

For Electric Motors and Parts Therefor, and Particularly Electric Motors for Electric Dry Shavers, Hair Clippers, Nail Trimmers, and Massage Appliances.

Claims use since Apr. 8, 1937.

Ser. No. 416,527. THE WESTINGHOUSE AIR BRAKE COMPANY, Wilmerding, Pa. Filed Feb. 28, 1939.



For Combined Electrical and Pneumatic Vehicle Brake and Propulsion Control Units.

Claims use since Jan. 5, 1939.

Ser. No. 417,230. C. H. F. MÜLLER AKTIENGESELLSCHAFT, Berlin, Germany. Filed Mar. 18, 1939.



For Electric Generators, Transmitters, Transformers, Motors, Electric Rectifiers and Inverters, Electric Discharging Tubes, Electric Switches, Condensers, Transformers, Choke Coils, Control Apparatus, and Parts of the Above Cited Electrical Apparatus.

Claims use since July 1, 1938.

Ser. No. 421,235. CHASE BRASS & COPPER CO. INCORPORATED, Waterbury, Conn. Filed July 3, 1939.

DIRECTALITE

For Electric Lighting Ceiling Fixtures.

Claims use since June 20, 1939.

CLASS 22

Games, Toys, and Sporting Goods

Ser. No. 420,721. LYON & COULSON, INCORPORATED, Buffalo, N. Y. Filed June 20, 1939.

L&C

For Fishing Tackle and Sporting Goods Including Dry Flies, Wet Flies, Leaders, Spinners, Fish Hooks, Reels, Fishing Lines, Fishing Rods, Rod Guides, Rod Tops, Rod Cases, Landing Nets, Fly Cases, Fly Boxes, Leader Cases, Line Carriers, Reel Cases, Line Dressers, Fly Dressing, Creels, Nets, Rod Rests, Rod Belts.
Claims use since August, 1935.

Ser. No. 420,914. OREGON WORSTED COMPANY, New York, N. Y. Filed June 24, 1939.

GENERAL PLAY BALL
FLYING FLEECE

The words "General Play Ball" are disclaimed apart from the mark.
For General Play Ball.
Claims use since Mar. 28, 1939.

Ser. No. 421,622. SIMMONS HARDWARE COMPANY, St. Louis, Mo. Filed July 15, 1939.

KEEN KASTER

For Fishing Lines.
Claims use since Oct. 17, 1938.

Ser. No. 421,946. JOHN A. SAND, JR., Chicago, Ill. Filed July 25, 1939.

SNOOTY PUPS

For Magnetized Toy Animals.
Claims use since Feb. 1, 1939.

CLASS 23

Cutlery, Machinery, and Tools, and Parts Thereof

Ser. No. 394,304. REMINGTON RAND INC., Buffalo, N. Y. Filed June 19, 1937. Under section 5b of the act of 1905 as amended in 1920.

REMINGTON

Applicant is the owner of U. S. trade-mark registration Ct. #368,774, issued June 27, 1939, under the 10-year proviso of the act of Feb. 20, 1905.
For Electric Dry Shavers, Attachments and Parts Thereof.
Claims use since Apr. 8, 1937.

Ser. No. 417,503. NATIONAL SILVER COMPANY, New York, N. Y. Filed Mar. 25, 1939.

ROYAL

Applicant claims ownership of U. S. trade-mark registration Ct. #143,909, issued June 21, 1921.
For Electric Shavers.
Claims use since Feb. 6, 1939.

CLASS 24

Laundry Appliances and Machines

Ser. No. 407,185. HARRIET HOLDER FRENCH, Newport, R. I., assignor to Bloc-Dry, Incorporated, New Haven, Conn., a corporation of Connecticut. Filed June 7, 1938.

BLOC-DRY

For Clothes Drying Frame.
Claims use since May 29, 1938.

CLASS 26

Measuring and Scientific Appliances

Ser. No. 413,680. OPTIKOTECHNA SPOLEČNOST S R. O., Prerov, Czechoslovakia. Filed Dec. 10, 1938.

BELAR

For Optical Lenses.
Claims use since Aug. 23, 1938.

CLASS 28

Jewelry and Precious-Metal Ware

Ser. No. 420,139. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton Mass. Filed June 3, 1939.

FOREVER

For Silverplated Flatware.
Claims use since May 18, 1939.

CLASS 29

Brooms, Brushes, and Dusters

Ser. No. 400,471. REMINGTON RAND INC., Buffalo, N. Y. Filed Dec. 4, 1937. Under section 5b of the act of 1905 as amended in 1920.

REMINGTON

For Tooth Brushes and Tooth Brush Attachments for Electric Motors.
Claims use since May 18, 1937.

CLASS 30

Crockery, Earthenware, and Porcelain

Ser. No. 413,557. EDWARD P. PAUL & CO., INC., New York, N. Y. Filed Dec. 7, 1938.

Royal Fenton

The name "Fenton" is disclaimed apart from the mark.
For Ceramic Tableware and Vases.
Claims use since January, 1938.

Ser. No. 419,958. EASTERN OUTFITTING CO. OF LOS ANGELES, CAL., Los Angeles, Huntington Park, Pasadena, and Long Beach, Calif. Filed May 29, 1939.

Casa Linda
Open Stock
POTTERY
Exclusive with Eastern

Applicant disclaims the words "Open Stock", "Pottery", and "Exclusive with Eastern" apart from the mark.
For Ceramic Dinnerware and Cooking Ware.
Claims use since Mar. 31, 1939.

Ser. No. 420,058. HALL CHINA COMPANY, East Liverpool, Ohio. Filed June 1, 1939.

SAF
HALL
SPOUT

The words "Saf-Spout" are disclaimed apart from the mark.
For Chinaware—Namely, Teapots, Coffee Pots, All Ceramic Casseroles, Cream Pitchers, Water Pitchers, and Plates.
Claims use since Jan. 12, 1939.

CLASS 31

Filters and Refrigerators

Ser. No. 421,707. ROBERT W. MACDONALD, Providence, R. I. Filed July 18, 1939.

PICNICOOLER

For Portable Coolers or Refrigerators Particularly Adapted to Hold Bottles.
Claims use since July 14, 1939.

CLASS 32

Furniture and Upholstery

Ser. No. 421,276. NATIONAL VENETIAN BLIND CO., Los Angeles, Calif. Filed July 4, 1939.

For Venetian Blinds.
Claims use since Jan. 1, 1936.

Ser. No. 421,671. PULLMAN COUCH COMPANY, Chicago, Ill. Filed July 17, 1939.

PULLMAN
PULLMAN COUCH COMPANY

For Upholstered Furniture and Furniture Convertible into Sleeping Units, Except for Use on Railroad Equipment.
Claims use since June, 1906.

Ser. No. 421,950. SEALY, INCORPORATED, Pittsburgh, Pa. Filed July 25, 1939. Under act of Feb. 20, 1905, as amended June 10, 1938.

Health-Flex

For Mattresses.
Claims use since Feb. 15, 1939.

Ser. No. 421,959. L. BAMBERGER & Co., Newark, N. J. Filed July 26, 1939.



For Mattresses.
Claims use since Oct. 17, 1938.

CLASS 34

Heating, Lighting, and Ventilating Apparatus

Ser. No. 383,045. THE WILLIAMSON HEATER COMPANY, Cincinnati, Ohio. Filed Sept. 8, 1936.

FLO-WARM

For Air Conditioning Units.
Claims use since Aug. 19, 1936.

Ser. No. 401,668. ELECTROL INCORPORATED, Clifton, N. J. Filed Jan. 7, 1938.



No claim is made for the words "Home Conditioning" or to the representation of the goods apart from the mark.
For Domestic Oil Burners and Air Conditioners.
Claims use since Mar. 15, 1936.

Ser. No. 412,012. TRADE-WIND MOTORFANS, INC., Los Angeles, Calif. Filed Oct. 24, 1938.

CLIPPER

For Fans and Blowers for Ventilating and Cooling, and Complete Ventilating and Cooling Units.
Claims use since Oct. 27, 1936.

Ser. No. 419,142. THE CLEVELAND RANGE COMPANY, Cleveland, Ohio. Filed May 6, 1939.

STEAM CHEF

Applicant disclaims the word "Steam" apart from the mark.
For Steam Pressure Cooking Units Utilizing Steam from Central Source or Equipped with Built in Heat.
Claims use since July 1, 1936.

CLASS 35

Belting, Hose, Machinery Packing, and Non-metallic Tires

Ser. No. 421,204. S. Q. SHANNON, doing business as Pacific Piston Ring Company, Los Angeles, Calif. Filed July 1, 1939.

Pyronized

For Piston Rings.
Claims use since January, 1939.

Ser. No. 421,234. BURD PISTON RING COMPANY, Rockford, Ill. Filed July 3, 1939.

Graf-Flox

For Piston Rings.
Claims use since June, 1938.

Ser. No. 421,327. SOUTHERN BELTING COMPANY, Atlanta, Ga. Filed July 6, 1939.

HAIRFLEX

For Leather Belting.
Claims use since June 15, 1939.

Ser. No. 421,435. THE MOHAWK RUBBER COMPANY, Akron, Ohio. Filed July 10, 1939.

AIR HAWK

For Pneumatic Tires for Vehicles.
Claims use since June 30, 1939.

CLASS 36

Musical Instruments and Supplies

Ser. No. 419,501. DICTAPHONE CORPORATION, Bridgeport, Conn. Filed May 17, 1939.

STENOPHONE

For Sound Transmitters Forming Parts of Commercial Phonographs.
Claims use since Dec. 23, 1938.

Ser. No. 420,013. MITSUBISHI SHOJI KAISHA, LTD., Tokyo, Japan, and New York, N. Y. Filed May 31, 1939.



For Koto Strings.
Claims use since Sept. 5, 1918.

CLASS 37

Paper and Stationery

Ser. No. 420,969. RHINELANDER PAPER COMPANY, Rhinelander, Wis. Filed June 26, 1939.

RARITY

For Parchment Paper.
Claims use since June 9, 1939.

Ser. No. 421,054. ROYAL LACE PAPER WORKS, Brooklyn, N. Y. Filed June 28, 1939.

Roylining

For Shelf and Lining Paper.
Claims use since May 20, 1939.

Ser. No. 421,091. MARCALUS MANUFACTURING CO., INC., Elizabeth, N. J. Filed June 29, 1939.

MARCAL

For Tissue, Napkins, Neck Strips, Head Rest Rolls, Sani-Strip Neck Strips, and Nape-Tex Neck Strips.
Claims use on napkins since March, 1938; tissue since January, 1939; neck strips, head rest rolls, sani-strip neck strips, and nape-tex neck strips since June, 1938.

Ser. No. 421,169. TOBEY-FINE PAPERS, INC., St. Louis, Mo. Filed June 30, 1939.

Briteweil

For Coated and Uncoated Book Paper, Offset Paper, Bond Paper, Writing Paper, Ledger Paper, and Bristol Paper.
Claims use since May 29, 1920.

CLASS 38

Prints and Publications

Ser. No. 384,954. ALFRED M. BEST COMPANY INC., New York, N. Y. Filed Oct. 30, 1936.

SAFETY ENGINEERING
THE MAGAZINE OF SAFETY

For Periodical Publication Published Monthly or From Time to Time.
Claims use since April, 1913.

Ser. No. 403,061. STOVE MOUNTERS' INTERNATIONAL UNION, St. Louis, Mo. Filed Feb. 15, 1938.



Applicant disclaims the words "Union Label" per se, and the words "Porcelain, Enamelers, Superior, Workmanship" apart from the mark.
For Printed Books, Pamphlets, Magazines Published Monthly, and Circulars Used Between the Different Units of the Association for the Furtherance of Its Objects.
Claims use since Oct. 17, 1936.

Ser. No. 406,553. INTERNATIONAL BROTHERHOOD OF TEAMSTERS CHAUFFEURS STABLEMEN & HELPERS OF AMERICA, Indianapolis, Ind., and Washington, D. C. Filed May 20, 1938.



No claim is made to the words "Union Label," "International Brotherhood of T. C. S. & H. of America", "Affid. with A. F. of L." apart from the mark.
For Books, Pamphlets, Circulars, and for a Periodical Published From Time to Time for the Furtherance of Its Object.
Claims use since Apr. 1, 1938.

Ser. No. 407,980. GIBSON & GIBSON, New York, N. Y., assignor to Endeavor Publishing Corporation, New York, N. Y., a corporation of New York. Filed June 28, 1938.

WIN

For Periodical Publication.
Claims use since June 8, 1938.

Ser. No. 419,641. SERVICE INSTRUMENTS, INC., New York, N. Y. Filed May 22, 1939.

SIGNAL the TRACER

For Publications Including Subject-Matter Appertaining to the Radio Industry, Published Monthly.
Claims use since Apr. 1, 1939.

Ser. No. 419,955. FREDERICK W. DAU, New York, N. Y. Filed May 29, 1939.

NEW YORK BLUE BOOK

The word "New York" is disclaimed apart from the mark.
For Social Registers or Directories Issued Annually.
Claims use since 1898.

Ser. No. 420,411. MARY THERESA GRONICH, doing business as Eureka Publishing Corporation, New York, N. Y. Filed June 12, 1939.

BETTER ENGLISH

For Periodical.
Claims use since December, 1937.

Ser. No. 421,044. KIRBY, BLOCK & COMPANY, New York, N. Y. Filed June 28, 1939.

SCHOOL OF FASHION

For Semi-annual Publication Relating to Fashions.
Claims use since November, 1938.

CLASS 39

Clothing

Ser. No. 402,176. CANNON MILLS COMPANY, Kannapolis, N. C. Filed Jan. 21, 1938.

ROSALEEN

For Hosiery.
Claims use since Jan. 10, 1938.

Ser. No. 405,091. RICHMOND HOSIERY MILLS, Rossville, Ga. Filed Apr. 8, 1938.

Richtwist

For Hosiery.
Claims use since Mar. 17, 1938.

Ser. No. 408,672. VANITY FAIR SILK MILLS, Reading, Pa. Filed July 19, 1938.

Vanity Fair

RADIA

For Hosiery and Knitted and Textile Underwear for Women and Children—Namely, Vests, Bloomers, Knickerbockers, Shorts, Skintights, Tight Panties, Stepins, Bandeaux, Corset Covers, Petticoats, Slips, Panties, Tight Suits, Unionsuits, Chemises, and Bandeau Chemises; and Night Gowns, Pajamas, Housecoats, Bed Jackets; and Knitted and Textile Underwear for Men—Namely, Shirts, Drawers, and Unionsuits.
Claims use since Apr. 11, 1914.

Ser. No. 419,417. CRADDOCK-TERRY SHOE CORPORATION, Lynchburg, Va. Filed May 15, 1939.



The mark consists of the name and portrait of Tom Terry, deceased.
For Men's and Boys' Leather Shoes.
Claims use since Apr. 11, 1939.

Ser. No. 419,657. CARSON PIRIE SCOTT & COMPANY, Chicago, Ill. Filed May 22, 1939.

LAUREL

For Nightgowns and Pajamas.
Claims use since April, 1939.

Ser. No. 419,828. EVELYN ZINITI, New York, N. Y. Filed May 25, 1939.

TEEN-EEZ

The word "Eez" is disclaimed except as shown.
For Ladies', Misses', and Children's Shoes and Slippers Made of Leather, Canvas, Fabric, or Compositions or Combinations Thereof.
Claims use since January, 1939.

Ser. No. 420,009. KRUMHOLZ & LICHTBLAU, doing business as Kelray Knitting Mills, New York, N. Y. Filed May 31, 1939.

TUBARETTE

For Ladies', Misses', and Children's Chemises, Slips, Petticoats, Nightgowns, Pajamas, Bloomers, Vests, Stepins, and Panties.
Claims use since Feb. 1, 1939.

Ser. No. 420,153. YOUNG'S MERCHANDISING CORPORATION, New York, N. Y. Filed June 3, 1939.

Young's

DOEFELT

Applicant is owner of T. M. Reg. Nos. 55,488 (renewed) and 126,116 for "Young's Hats" under the 10-year proviso.
For Hats and Caps for Men.
Claims use since Jan. 1, 1936.

Ser. No. 420,231. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and St. Louis, Mo. Filed June 6, 1939.

MacPhergus

For Men's Sweaters, Bathing Suits, Jackets, and Coats.
Claims use since Aug. 15, 1934.

Ser. No. 420,323. L. ISAACSON & SONS, INC., New York, N. Y. Filed June 9, 1939.

CORDMOOR by PEERLESS

The word "Peerless" is disclaimed apart from the mark.
For Children's Suits, Overalls, and Shorts for Outer Wear and Men's and Children's Jackets, Trousers, Vests, and Slacks, Which Garments Are Made Principally of Corduroy.
Claims use since June 1, 1939.

Ser. No. 420,324. FELIX A. KAPLAN & CO., INC., New York, N. Y. Filed June 9, 1939.

AIR THIN

The word "Thin" is disclaimed apart from the mark.
For Men's and Boys' Outer Shirts.
Claims use since June 4, 1938.

Ser. No. 420,444. A. SAUNDERS ASHBURNER, Swissvale, Pa. Filed June 13, 1939.

The Tie O'Love

No claim is made to the word "Tie" except as shown.
For Neckties.
Claims use since May 24, 1939.

Ser. No. 420,467. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y. Filed June 13, 1939.

United Cross

For Rubber Gloves.
Claims use since May 29, 1939.

Ser. No. 420,518. DIAMOND SHOE CO., New York, N. Y. Filed June 15, 1939.

TIME TESTED

The words "Time Tested" are disclaimed apart from the mark.
For Men's and Women's Leather Shoes.
Claims use since May 11, 1939.

Ser. No. 420,542. PIONEER SUSPENDER COMPANY, Philadelphia, Pa. Filed June 15, 1939.

BREVETT

For Suspenders, Braces, and Supporters for Supporting Trousers, and Garters.
Claims use since May 19, 1939.

Ser. No. 420,711. BONWIT TELLER, INC., New York, N. Y. Filed June 20, 1939.

"BURNT SUGAR"

For Women's and Misses' Dresses, Coats, Outer Skirts, Blouses, Jackets, Sweaters, Stockings; Gloves and Shoes Made of Leather, Fabric, and Combinations Thereof; Hats, Nightgowns, Slips, Chemises, Panties, Brassières, Corsets, Girdles, Bathing Suits, Beach Robes, Slacks, Sport Shirts, and Shorts.
Claims use since June 15, 1939.

Ser. No. 420,751. DAVENSHIRE INC., Davenport, Iowa. Filed June 21, 1939.

Shire-Tex

For Men's Trousers and Sportswear—Namely, Sweaters, Coats, and Knickers.
Claims use since Feb. 1, 1936.

Ser. No. 420,802. BLUE LINE HOSIERY MILLS, INC., New York, N. Y. Filed June 22, 1939.

Plasticized

For Hosiery.
Claims use since June 6, 1939.

Ser. No. 420,814. GASTONIA FULL FASHIONED HOSIERY MILL, INC., Gastonia, N. C. Filed June 22, 1939.



For Hosiery.
Claims use since Feb. 16, 1939.

Ser. No. 420,875. ROGERS PEET COMPANY, New York, N. Y. Filed June 23, 1939.



For Men's and Boys' Suits and Overcoats.
Claims use since June 16, 1939.

Ser. No. 420,932. ELSA BRADY FROCKS, St. Louis, Mo. Filed June 26, 1939.

Elsa Brady

The mark is a facsimile of the signature of Elsa Brady, one of the members of the firm.
For Ladies', Misses', and Girls' Ready-to-Wear Dresses, Particularly Sport Frocks, Afternoon Dresses, and Formal Dresses.
Claims use since June 16, 1939.

Ser. No. 420,958. IRELAND BROS., Johnstown, N. Y. Filed June 26, 1939.

LAVANDO

For Ladies' Gloves Made of Leather and Fabric.
Claims use since June 12, 1939.

Ser. No. 420,972. SELECT SPORTSWEAR, INC., New York, N. Y. Filed June 26, 1939.

Glendundee

For Ladies' and Misses' Knitted Sport Sweaters and Two Piece Knitted Dresses.
Claims use since June 1, 1939.

Ser. No. 420,987. ALEXANDER BROS. COMPANY, Savannah, Ga. Filed June 27, 1939.

CLOVER

For Overalls, Work Shirts, Jumpers (Work Coats), and Dungarees, the Latter Being an Overall without Apron or Upper Part.
Claims use since June 23, 1939.

Ser. No. 421,045. SANDERS A. LEVINSOHN, INC., New York, N. Y. Filed June 28, 1939.



For Boys', Students', and Men's Suits and Overcoats.
Claims use since May, 1939.

Ser. No. 421,058. WILLIAM STECHEL, New York, N. Y. Filed June 28, 1939.

HUGGIRD

For Sport Shirts and Pants.
Claims use since Feb. 1, 1939.

Ser. No. 421,143. THE MAY DEPARTMENT STORES COMPANY, New York, N. Y., Akron and Cleveland, Ohio, Baltimore, Md., Los Angeles, Calif., Denver, Colo., and doing business as Famous-Barr Co., St. Louis, Mo. Filed June 30, 1939.

"YoungBudgeteer"

For Misses' and Juniors' Dresses, Coats, Jackets, Skirts, Shirts, Blouses, and Sweaters.
Claims use since June 22, 1939.

Ser. No. 421,162. SAKS & COMPANY, New York, N. Y. Filed June 30, 1939.

SAKSTON

For Men's Suits and Overcoats.
Claims use since Apr. 10, 1931.

CLASS 40

Fancy Goods, Furnishings, and Notions

Ser. No. 420,577. GEMEX COMPANY, Newark, N. J. Filed June 16, 1939.

GEMSNAP

For Watch Straps, Watch Chains, Wrist Watch Bracelets, All the Foregoing Made of or in Part of Leather; Buckles, Cuff and Collar Buttons, All the Foregoing Made of Non-Precious Metal.
Claims use since Oct. 28, 1938.

Ser. No. 420,662. ERDMAN BERG, Detroit, Mich. Filed June 19, 1939.

ERD-BER

For Leather Watch Straps.
Claims use since July 14, 1937.

Ser. No. 420,749. BERNHARD ULMANN CO. INC., New York, N. Y. Filed June 21, 1939.



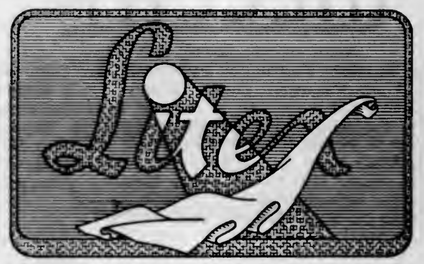
For Stamped Goods and Art Needlework Package Outfits Containing Foundation Material, Stamped or Otherwise Suitably Prepared, and Art Needlework Supplies to be Used in Connection Therewith.
Claims use since June 5, 1939.

505 O. G.—69

CLASS 42

Knitted, Netted, and Textile Fabrics

Ser. No. 419,613. K. FEIBEL, LTD., Los Angeles, Calif. Filed May 20, 1939.



For Textile Art Piece Goods—Namely, Upholstery Fabric, Pillow Covers, Doilies, Throws, and the Like.
Claims use since May 12, 1939.

Ser. No. 420,553. WAMSUTTA MILLS, New Bedford, Mass. Filed June 15, 1939.

AMERICALE

For Cotton Piece Goods and Sheets and Pillow Cases.
Claims use since Oct. 10, 1938.

CLASS 44

Dental, Medical, and Surgical Appliances

Ser. No. 419,140. DE FOREST B. CATLIN, Boston, Mass. Filed May 6, 1939.

TRU BAK

For Osteopathic Treatment Tables.
Claims use since Jan. 15, 1937.

Ser. No. 421,371. EMMA WYLLY CRUM, Poughkeepsie, N. Y. Filed July 8, 1939.

Wylly

The mark is part of the facsimile signature of applicant.
For Hospital Signal Cords and Hospital Waste Receptacle Holders.
Claims use since May, 1939.

Ser. No. 421,652. THE HENKEL-CLAUSS COMPANY, Fremont, Ohio. Filed July 17, 1939.

ACCENT

For Manicure Kits in the Form of a Case Containing Nail Files, Tweezers, Cuticle Scissors, Nail Scissors, Metal Pick and Pusher, Metal Pick and Comedone, Cuticle Knife, Cuticle Pusher, Comedone, Blackhead Remover, Sandboard, Orange-Wood Stick, Cleaners, Earspoon, Hoofstick, Cotton Rolls, Nail White Pencil, Nipper, Finger Nail Buffer, Finger Nail Polish, Polish Remover, and Cuticle Remover.
Claims use since Mar. 28, 1939.

Ser. No. 421,691. OTIS CLAPP & SON, INC., Boston, Mass. Filed July 18, 1939.

SHADOWTHIN

For Elastic Hosiery and Underwear.
Claims use since Apr. 21, 1939.

CLASS 45

Beverages, Nonalcoholic

Ser. No. 415,700. C. H. BOEHRINGER SOHN, Nieder-Ingelheim-on-the-Rhine, Germany. Filed Feb. 7, 1939.

CHABESO

For Nonalcoholic Maltless Beverages.
Claims use since Aug. 21, 1934.

Ser. No. 417,519. HENRY LOTTI, doing business as Liberty Bottling Company, Memphis, Tenn. Filed Mar. 25, 1939.



The drawing is lined for orange. No claim is made to the words "Vitalizing" and "8 Ounces".
For Nonalcoholic, Noncereal, Maltless Beverage Sold as a Soft Drink.
Claims use since Feb. 9, 1939.

CLASS 46

Foods and Ingredients of Foods

Ser. No. 406,712. G. & G. WHOLESALE GROCERS INC., Brooklyn, N. Y. Filed May 25, 1938.

GEORGIANA

For Canned Tomatoes, Canned Fish.
Claims use since Oct. 20, 1931.

Ser. No. 407,288. TYRRELL AND GARTH, INC., Houston, Tex. Filed June 9, 1938.

Fruit of Eden

The word "Fruit" is disclaimed except as shown.
For Canned Fresh Vegetables and Vegetable Juices for Use as Foods, and Canned Fresh Citrus Fruits and Fruit Juices for Use as Foods.
Claims use since Jan. 7, 1938.

Ser. No. 407,764. ROSS POTATO CHIP CO., Richland, Pa. Filed June 22, 1938.

KLONDIKE NUGGETS

The word "Klondike" is disclaimed apart from the mark.
For Popcorn Coated with Cheese.
Claims use since Apr. 20, 1938.

Ser. No. 409,811. JOHN M. JACOBS, doing business as John Jacobs Farms, Phoenix, Ariz. Filed Aug. 20, 1938.



No claim is made to the representation of a label apart from the mark. The picture of the girl is fanciful.
For Fresh Vegetables and Melons.
Claims use since July 28, 1938.

Ser. No. 415,761. THE BULL-BURGER COMPANY, Amarillo, Tex. Filed Feb. 8, 1939.



No claim is made to the words "Good Meal" apart from the mark.
For Sandwiches.
Claims use since Nov. 29, 1938.

Ser. No. 416,899. THE ISMERT-HINCKE MILLING COMPANY, Kansas City, Mo., doing business as the Riverview Mills Company, Topeka, Kans. Filed Mar. 10, 1939.

Lovely Lady

For Wheat Flour.
Claims use since July 18, 1938.

Ser. No. 417,894. KAKUICHI TOTTORI, doing business as Island Packers, Honolulu, Territory of Hawaii. Filed Apr. 5, 1939.

ISLE OF GOLD.

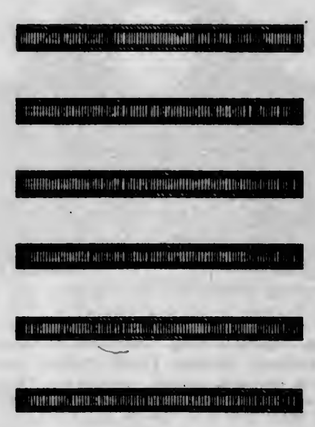
For Fresh Vegetables, Fresh Fruits—Namely, Fresh Pineapple and Canned Fruit Juices for Food Purposes Only.
Claims use since Aug. 6, 1936.

Ser. No. 418,160. WILSON PUGSLEY MACDONALD, Mount Royal, Quebec, Canada. Filed Apr. 12, 1939.

WORLD'S FARE

Applicant disclaims the word "Fare" apart from the mark.
For Bread and Pastry—Namely, Shortbread, Pies, and Tarts.
Claims use since Apr. 7, 1939.

Ser. No. 418,682. GENERAL BAKING COMPANY, New York, N. Y. Filed Apr. 25, 1939.



Applicant is the owner of registrations Nos. 253,942, dated Mar. 12, 1929; 253,943, dated Mar. 12, 1929; 254,138, dated Mar. 12, 1929; 254,139, dated Mar. 12, 1929; and 293,950, dated May 10, 1932. The mark consists of the design and colors of the stripes or bands shown, the colors red and green being claimed as features of the mark.
For Bread.
Claims use since Nov. 1, 1936.

Ser. No. 418,870. FURUKAWA PLANTATION COMPANY, INC., Davao, P. I. Filed Apr. 29, 1939.



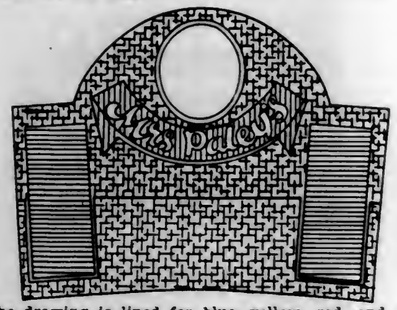
For Desiccated Coconut.
Claims use since Jan. 12, 1939.

Ser. No. 418,871. FURUKAWA PLANTATION COMPANY, INC., Davao, P. I. Filed Apr. 29, 1939.



For Desiccated Coconut.
Claims use since Jan. 12, 1939.

Ser. No. 419,037. PALEY-SACHS FOOD CO., Houston, Tex. Filed May 3, 1939.



The drawing is lined for blue, yellow, red, and gold. No claim is made to the representation of a label.

For Prepared Baby Foods—Namely, Strained Beef, Liver Soup, Vegetable Soup, Beef Broth, Mixed Vegetables, Apples, Apricots, Peaches, Pears, Prunes, Beets, Green Beans, Peas, Spinach, Squash, Carrots and Cereal Cooked in Milk Composed of Milk, Wheat Germ, Cracked Wheat, Steel Cut Oats, Yellow Cornmeal and Farina.

Claims use since May 16, 1932.

Ser. No. 419,429. L. MAXCY, INC., Frostproof, Fla. Filed May 15, 1939.

GAME COCK

For Fresh Citrus Fruits.

Claims use since Apr. 18, 1939.

Ser. No. 419,572. CATELLI FOOD PRODUCTS, LTD., Montreal, Quebec, Canada. Filed May 19, 1939.



The portrait is fanciful. All wording except "Baptiste" and "Catelli Food Products Ltd." is disclaimed apart from the mark.

For Pea Soup.

Claims use since Nov. 1, 1936.

Ser. No. 419,966. GANTIS FOOD PRODUCTS CORP., New York, N. Y. Filed May 29, 1939.

GANTIS

For Sweet Milk Cocoa for Cold and Hot Chocolate Drinks.

Claims use since May 22, 1939.

Ser. No. 420,232. MONTSWEAG FOOD PRODUCTS, INC., Bath, Maine. Filed June 6, 1939.

PIE MASTER

No claim is made to the word "Pie", apart from the mark as shown.

For Canned Pie Fillings.

Claims use since May 17, 1939.

Ser. No. 420,298. EARL C. VAN WERT, doing business as D-Lek-Table Food Company, Pasadena, Calif. Filed June 8, 1939.



D-LEK-TABLE

For Bottled Salad Dressing.

Claims use since Jan. 14, 1939.

Ser. No. 420,310. BONITA PACKING CO., Guadalupe, Calif. Filed June 9, 1939.

NITA-PAK

No claim is made to the word "Pak" apart from the mark.

For Fresh Vegetables.

Claims use since Nov. 1, 1938.

Ser. No. 420,374. CHAS. HEFLEY, doing business as Chas. Hefley Popcorn Products, Los Angeles, Calif. Filed June 10, 1939.

SCHOOL DAYS

For Buttered Popped Popcorn.

Claims use since June 5, 1939.

Ser. No. 420,431. RICHARD REBHUN, Flint, Mich. Filed June 12, 1939.



The representation of the child is fanciful.

For Infant Foods.

Claims use since May 14, 1939.

Ser. No. 420,645. MASAJI SAWADA, doing business as Tea Gold Co., New York, N. Y. Filed June 17, 1939.

TEA GOLD

No claim is made to the word "Tea" apart from the mark.

For Tea.

Claims use since June 9, 1939.

Ser. No. 420,879. LORIN M. SIMS, doing business as Sims Food Products, San Francisco, Calif. Filed June 23, 1939.

Diablo

For Alimentary Paste Products, Particularly Spaghetti with Meat Balls and Macaroni with Chili and Beans.

Claims use since May 17, 1939.

Ser. No. 420,960. LOS ANGELES SALES CO., Los Angeles, Calif. Filed June 26, 1939.

REMARKABLE

For Canned Fruits, Vegetables, Fish, Soups, Fruit Juices for Food Purposes, Olives, Puree of Spinach, Spanish Style Tomato Sauce, Applesauce, Pork and Beans, Shortening; and Dried Prunes, Pancake Flour, Corn Flakes, Coffee, Tomato Catsup, Flavoring Extracts for Foods, Prepared Mustard, Allspice, Vinegar, Table Syrup, Honey, Dessert Powder for Puddings, Baking Powder, Pickles, Salad Dressing, Fruit Preserves, and Popped Popcorn.

Claims use since September, 1938.

Ser. No. 421,028. CULBERTSON LEMON ASSN., Saticoy, Calif. Filed June 28, 1939.

SOLO

For Fresh Citrus Fruit.

Claims use since June 14, 1939.

Ser. No. 421,055. RURAL EDUCATIONAL ASSOCIATION, doing business as Madison Foods, Madison College, Tenn. Filed June 28, 1939.

STAKE-LETS

For Canned Protein Food Used as a Substitute for Meat, Made from Gluten and Soy Beans.

Claims use since May 5, 1939.

Ser. No. 421,117. ACME EGG CO., INC., New York, N. Y. Filed June 30, 1939.

AUCTION

For Eggs.

Claims use since May 2, 1939.

CLASS 47

Wines

Ser. No. 409,977. PAUL RUINART & CIE., Reims and Paris, France. Filed Aug. 25, 1938. Under 10-year proviso.



For Wines.

Claims use since 1868.

Ser. No. 413,832. G. LOEWUS & CO., INC., Newark, N. J. Filed Dec. 14, 1938.

Royal Orchard

GL

FRUIT CUP

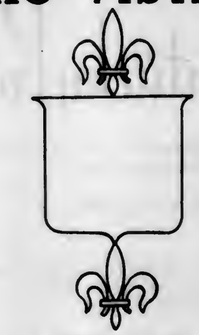
The words "Fruit Cup" are disclaimed apart from the mark.

For Fruit Wine.

Claims use since Oct. 25, 1938.

Ser. No. 418,635. GLOBE DISTRIBUTING COMPANY, Baltimore, Md. Filed Apr. 24, 1939.

RIO VISTA



Applicant disclaims the words "Rio Vista" apart from the combination shown.

For Wines.

Claims use since Mar. 21, 1939.

CLASS 48

Malt Beverages and Liquors

Ser. No. 421,029. DEERPARK BEVERAGES, INC., Port Jervis, N. Y. Filed June 28, 1939.

CHAMPALE

For Sparkling Ale.
Claims use since June 5, 1939.

CLASS 49

Distilled Alcoholic Liquors

Ser. No. 408,443. JULIUS KESSLER DISTILLING CO., INC., Lawrenceburg, Ind. Filed July 13, 1938.

Julius Kessler

KESSLER'S

The facsimile signature is that of Julius Kessler, president of applicant corporation. Applicant disclaims the surname "Kessler" apart from the mark shown.
For Whiskey.
Claims use since Aug. 13, 1935.

Ser. No. 411,083. THE CALVERT DISTILLING CO., Baltimore, Md. Filed Sept. 29, 1938.

Kentucky Pride

Applicant disclaims the term "Kentucky" apart from the collocation "Kentucky Pride".
For Whiskey.
Claims use since Oct. 21, 1936.

Ser. No. 418,586. ALEXANDER MCDOUGALL & COMPANY LIMITED, Glasgow and Islay, Scotland. Filed Apr. 22, 1939. Under 10-year proviso.

ARDBEG

For Whisky.
Claims use since 1855.

Ser. No. 418,587. ALEXANDER MCDOUGALL & COMPANY LIMITED, Glasgow and Islay, Scotland. Filed Apr. 22, 1939. Under 10-year proviso.



For Whisky.
Claims use since 1855.

Ser. No. 421,867. HIRAM WALKER & SONS INC., Peoria, Ill. Filed July 22, 1939.

Meadow Brook

For Whiskey.
Claims use since 1899.

CLASS 50

Merchandise Not Otherwise Classified

Ser. No. 389,451. THE BRUNSWICK-BALKE-COLLENDER COMPANY, Chicago, Ill. Filed Feb. 27, 1937.

RELIANCE

For Billiard Table Covers Composed of Rubberized Cloth to Protect the Table from Dust, Etc.
Claims use since Sept. 15, 1936.

Ser. No. 419,582. LLOYD MANUFACTURING CO., INC., Apponaug, R. I. Filed May 19, 1939.



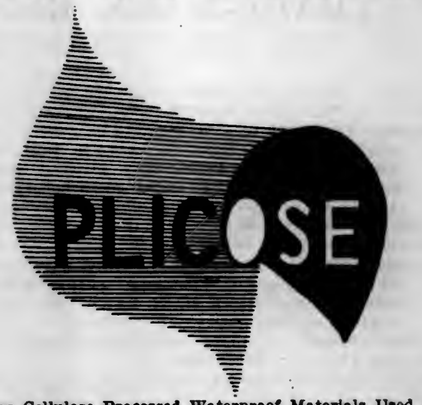
For Card Cloth, Card Clothing Foundation, Printers' Offset Blankets (Rubberized), Textile Blankets (Rubberized), and Coated Rubber Fabrics in the Piece.
Claims use since Apr. 4, 1939.

Ser. No. 420,138. NATIONAL CANVAS GOODS MANUFACTURERS ASSOCIATION, INC., St. Paul, Minn. Filed June 3, 1939. Under the act of Feb. 20, 1905, as amended June 10, 1938.

KAMPTOP

For Tents.
Claims use since May 20, 1939.

Ser. No. 420,858. RALPH S. HARTE, doing business as Harte & Co., New York, N. Y. Filed June 23, 1939.



For Cellulose Processed Waterproof Materials Used in the Manufacture of Curtains, Draperies, Aprons, and Shower Curtains.
Claims use since Mar. 9, 1939.

TRADE-MARK REGISTRATIONS GRANTED

[ACT OF FEBRUARY 20, 1905]

AUGUST 29, 1939

370,382. MEDICINAL PREPARATION, THE SAID PREPARATION BEING A SALVE FOR THE TREATMENT OF ATHLETE'S FOOT. EDMUND SCHINDEL, doing business as Schindel's Laboratories, Aurora, Ill.
Filed February 4, 1937. Serial No. 388,557. PUBLISHED AUGUST 2, 1938. Class 6.

370,383. MECHANICS' TOOLS—NAMELY, WRENCHES, PLIERS, CHISELS, TINNERS' SNIPS, SCREWDRIVERS, HAMMERS, HAND SAWS, ETC. SEARS, ROEBUCK AND CO., Chicago, Ill.
Filed February 23, 1937. Serial No. 389,266. PUBLISHED JUNE 20, 1939. Class 23.

370,384. ETCHED ENGRAVERS' PLATES FOR PRINTING PURPOSES. VARI-COLOR MACHINE CO., St. Louis, Mo.
Filed March 1, 1937. Serial No. 389,398. PUBLISHED JUNE 20, 1939. Class 50.

370,385. ELECTRIC LAMPS. HYGRADE SYLVANIA CORPORATION, Salem, Mass.
Filed March 29, 1937. Serial No. 390,651. PUBLISHED JUNE 20, 1939. Class 21.

370,386. ELECTRIC LAMPS, ELECTRIC LIGHT TRANSLATING DEVICES. HYGRADE SYLVANIA CORPORATION, Salem, Mass.
Filed March 29, 1937. Serial No. 390,652. PUBLISHED JUNE 20, 1939. Class 21.

370,387. ANALGESICS, ANAPHRODISIACS, ANESTHETICS, ANODYNES, ANTHELMINTICS, ANTICHLOROTICS, ANTI-EPILEPTICS, ETC. VICTOR ZAHLOUT, doing business as Victor Chemical Co., Oakland, Calif.
Filed April 29, 1937. Serial No. 392,064. PUBLISHED JUNE 6, 1939. Class 6.

370,388. STAINLESS STEEL AND STAINLESS IRON TABLE AND KITCHEN DISHES AND PANS. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass.
Filed July 10, 1937. Serial No. 395,080. PUBLISHED MAY 30, 1939. Class 13.

370,389. CONDENSERS OF REFRIGERATING SYSTEMS. GENERAL MOTORS CORPORATION, Detroit, Mich.
Filed December 18, 1937. Serial No. 401,021. PUBLISHED JUNE 20, 1939. Class 31.

370,390. RITUALS, TRANSFER CERTIFICATES, WITHDRAWAL CARDS, DISMISSAL CERTIFICATES, PASS CARDS, AND OFFICERS' COMMISSIONS IN THE NATURE OF BLANK FORMS. SUPREME SANCTORUM ANCIENT MYSTIC ORDER OF SAMARITANS, INC., Niagara Falls, N. Y.
Filed February 3, 1938. Serial No. 402,656. PUBLISHED JUNE 20, 1939. Class 37.

370,391. ELECTRIC MOTORS, IGNITION BATTERIES, ACCUMULATORS, TRANSFORMERS, INDUCTORS, MAGNETS, ELECTROMAGNETS, MAGNETOS, ETC. DAIMLER-BENZ AKTIENGESELLSCHAFT, Stuttgart-Unterturkheim, Germany.
Filed March 3, 1938. Serial No. 403,647. PUBLISHED JUNE 20, 1939. Class 21.

370,392. BACTERIAL VACCINE FOR USE IN THE TREATMENT OF ACUTE AND CHRONIC INFECTIONS OF THE SKIN USUALLY GROUPED UNDER THE NAME OF ACNE. U. S. STANDARD PRODUCTS COMPANY, Woodworth, Wis.
Filed March 8, 1938. Serial No. 403,840. PUBLISHED JUNE 14, 1938. Class 6.

370,393. BACTERIAL VACCINE FOR USE IN THE TREATMENT OF ARTHRITIS, CYSTITIS, METRITIS, ABSCESSES, AND INFECTIONS AND ASSOCIATED WITH PATHOLOGICAL CONDITIONS IN THE URINARY AND INTESTINAL TRACTS. U. S. STANDARD PRODUCTS COMPANY, Woodworth, Wis.
Filed March 8, 1938. Serial No. 403,842. PUBLISHED JUNE 14, 1938. Class 6.

370,394. HAIR TONIC, SHAMPOO, BAY RUM, WITCH HAZEL AFTER SHAVING LOTION, WAVE LOTION, VANISHING CREAM, MENTHOL CREAM, COLD CREAM, POMADE, COCONUT OIL CREAM, AND MASSAGE CREAM. RAFFAELE AMENDOLA, doing business as Enterprise Laboratories, New Haven, Conn.
Filed March 10, 1938. Serial No. 403,890. PUBLISHED JUNE 13, 1939. Class 6.

370,395. PREPARATION FOR SOFTENING FURS AND FUR GARMENTS. BETZOLD FUR CLEANERS, Philadelphia, Pa.
Filed March 12, 1938. Serial No. 403,984. PUBLISHED MAY 3, 1938. Class 6.

370,396. FOOT MASSAGE CREAMS. EDWARD SCHWARTZENFELD, doing business as Pedmor Products Co., Cleveland, Ohio.
Filed March 25, 1938. Serial No. 404,492. PUBLISHED JUNE 6, 1939. Class 6.

370,397. WIPING CLOTHS. LETELLIER-PHILLIPS PAPER COMPANY, INC., New Orleans, La.
Filed March 28, 1938. Serial No. 404,568. PUBLISHED AUGUST 2, 1938. Class 29.

370,398. CHINA TABLEWARE. STETSON CHINA COMPANY, INC., Chicago, Ill.
Filed April 5, 1938. Serial No. 404,920. PUBLISHED MAY 30, 1939. Class 30.

370,399. INSECTICIDE, PARTICULARLY A GARDEN SPRAY. FERRY-MORSE SEED COMPANY, Detroit, Mich.
Filed April 16, 1938. Serial No. 405,353. PUBLISHED JUNE 6, 1939. Class 6.

370,400. REFLECTORS USED FOR STORE WINDOW LIGHTING, AND DISPLAY LIGHTING. CLIMAX REFLECTOR, INC., Canton, Ohio, assignor to Smally Products, Inc., Canton, Ohio.
Filed April 16, 1938. Serial No. 405,371. PUBLISHED JUNE 6, 1939. Class 34.

370,401. IMPERFORATE PLATE TYPE COMBINATION TOASTERS AND GRILLERS. UNIVERSAL BUTTON FASTENING & BUTTON COMPANY, Detroit, Mich.
Filed April 16, 1938. Serial No. 405,376. PUBLISHED JUNE 13, 1939. Class 13.

370,402. CHAMPAGNE. ELLENA BROTHERS, Etiwanda, Calif.
Filed April 19, 1938. Serial No. 405,439. PUBLISHED AUGUST 16, 1938. Class 47.

370,403. HAIR TONIC. ANGIE M. REED, Miami, Fla.
Filed April 21, 1938. Serial No. 405,566. PUBLISHED JUNE 20, 1939. Class 6.

370,404. LAXATIVE TABLETS. FREDERICK A. BOCKMANN, doing business as Bocan Drug Co., Utica, N. Y.
Filed May 7, 1938. Serial No. 406,080. PUBLISHED JUNE 28, 1938. Class 6.

370,405. CHEESE FLAVORED POPCORN. BECKER PRETZEL BAKERIES, INC., Baltimore, Md.
Filed May 13, 1938. Serial No. 406,269. PUBLISHED JULY 12, 1938. Class 46.

370,406. PREPARATION USED IN DIGESTIVE DISTURBANCES IN HUMAN BEINGS AND ANIMALS. ANCIENNE MAISON LOUIS SANDERS, SOCIÉTÉ ANONYME, St. Gilles, near Brussels, Belgium.
Filed June 3, 1938. Serial No. 407,047. PUBLISHED JUNE 13, 1939. Class 6.

370,407. PREPARATION USED IN DIGESTIVE DISTURBANCES IN HUMAN BEINGS AND ANIMALS. ANCIENNE MAISON LOUIS SANDERS, SOCIÉTÉ ANONYME, St. Gilles, near Brussels, Belgium.
Filed June 3, 1938. Serial No. 407,048. PUBLISHED JUNE 13, 1939. Class 6.

370,408. BREAD. APPEAL INC., Spokane, Wash.
Filed June 21, 1938. Serial No. 407,710. PUBLISHED JUNE 20, 1939. Class 46.

370,409. VERMOUTH. E. D'EMARESE DI S. RICHETTA & FIOLI, Turin, Italy.
Filed July 5, 1938. Serial No. 408,187. PUBLISHED JUNE 13, 1939. Class 47.

370,410. VITAMIN CAPSULES WITH A MIXTURE OF LIVER EXTRACT AND THE HIGHER VALENCY IRON (GREEN) AND AMMONIUM CITRATE. A. KIEFER MAYER, doing business as The 5 Vitamins Liac Co., Indianapolis, Ind.
Filed August 11, 1938. Serial No. 409,479. PUBLISHED NOVEMBER 29, 1938. Class 6.

370,411. ARTIFICIAL MINERAL WATERS FOR MEDICINAL USE. MICHAEL E. LEE, doing business as The Merlek Co., Oakland, Calif.
Filed August 20, 1938. Serial No. 409,813. PUBLISHED JUNE 6, 1939. Class 6.

470,412. COFFEE. WAPLES PLATTER CO., Fort Worth, Tex.
Filed September 3, 1938. Serial No. 410,278. PUBLISHED JUNE 20, 1939. Class 46.

470,413. COFFEE. WAPLES PLATTER CO., Fort Forth, Tex.
Filed September 3, 1938. Serial No. 410,279. PUBLISHED JUNE 20, 1939. Class 46.

370,414. PREPARATION FOR THE TREATMENT OF ESSENTIAL HYPERTENSION, ARTERIOSCLEROSIS, AND THROMBOSIS AND IMPAIRED CORONARY CIRCULATION. TABLE ROCK LABORATORIES, INC., Greenville, S. C.
Filed September 28, 1938. Serial No. 411,060. PUBLISHED JUNE 6, 1939. Class 6.

370,415. DRY CLEANING SOLVENTS. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed October 20, 1938. Serial No. 411,826. PUBLISHED JUNE 20, 1939. Class 4.

370,416. DRY CLEANING SOLVENTS. THE DOW CHEMICAL COMPANY, Midland, Mich.
Filed October 20, 1938. Serial No. 411,827. PUBLISHED JUNE 20, 1939. Class 4.

370,417. RECEPTACLES FOR HOUSEHOLD USE PARTICULARLY METALLIC TRAYS OF BASE METAL. MCGRAW ELECTRIC COMPANY, Chicago, Ill.
Filed October 21, 1938. Serial No. 411,878. PUBLISHED JUNE 6, 1939. Class 13.

370,418. RECEPTACLES FOR HOUSEHOLD USE PARTICULARLY METALLIC TRAYS OF BASE METAL. MCGRAW ELECTRIC COMPANY, Chicago, Ill.
Filed October 21, 1938. Serial No. 411,884. PUBLISHED JUNE 6, 1939. Class 13.

370,419. PLATES, CUPS, SAUCERS, BOWLS, PITCHERS, JARS, VASES, AND PLATTERS MADE OF PORCELAIN. ONEIDA LTD., Sherrill and Oneida, N. Y., and Northampton, Mass.
Filed October 26, 1938. Serial No. 412,057. PUBLISHED JUNE 20, 1939. Class 30.

370,420. FACE POWDER, DUSTING POWDER, TOILET WATER, PERFUME, SUNTAN OIL, SKIN AND HAIR LOTIONS, BRLLIANTINE, ROUGE COMPACTS, POWDER COMPACTS, LIPSTICKS, SACHET POWDERS, FACE CREAMS, BATH SALTS, TALCUM POWDERS, ROUGES. COTY, INC., New York, N. Y.
Filed October 27, 1938. Serial No. 412,085. PUBLISHED JUNE 20, 1939. Class 6.

370,421. SHEETS, PILLOW CASES, TABLE CLOTHS, DOILIES, SCARFS, CENTER PIECES, TOWELS, BEDSPREADS, BED SHEETS, WINDOW CURTAINS. MANDEL SCHWECHTER, doing business as Prime Needleart Co., Chicago, Ill.
Filed October 31, 1938. Serial No. 412,231. PUBLISHED JUNE 20, 1939. Class 42.

370,422. LOOSE LEAF BINDERS AND FILLERS, NOTEBOOKS, THUMB-TACKS, PAPER CLIPS, AND WRITING PAPER. WESTERN COLLEGE BOOKSTORE ASSOCIATION, Palo Alto, Calif.
Filed November 4, 1938. Serial No. 412,400. PUBLISHED JUNE 20, 1939. Class 37.

370,423. TOILET CREAMS. LANMAN & KEMP-BARCLAY & Co. INCORPORATED, New York, N. Y.
Filed November 5, 1938. Serial No. 412,414. PUBLISHED MAY 23, 1939. Class 6.

370,424. WHISKEY AND GIN. UNITED CIGAR-WHELAN STORES CORPORATION, New York, N. Y.
Filed November 9, 1938. Serial No. 412,566. PUBLISHED FEBRUARY 7, 1939. Class 49.

370,425. CLEANING PREPARATION POSSESSING INCIDENTAL DISINFECTING PROPERTIES USED FOR GENERAL HOUSEHOLD AND INDUSTRIAL CLEANING PURPOSES. HERCULES POWDER COMPANY, Wilmington, Del.
Filed November 10, 1938. Serial No. 412,602. PUBLISHED JUNE 20, 1939. Class 4.

370,426. ESSENTIAL OILS FOR USE IN THE PRODUCTION OF PERFUMES AND PHARMACEUTICAL ARTICLES. ETABLISSEMENTS ANTOINE CHIRIS, COMPAGNIE DES PRODUITS AROMATIQUES CHIMIQUES ET MEDICINAUX, SOCIETE ANONYME, Paris, France.
Filed November 15, 1938. Serial No. 412,760. PUBLISHED JUNE 6, 1939. Class 6.

370,427. TOWELS. BOOTT MILLS, Lowell, Mass.
Filed November 17, 1938. Serial No. 412,850. PUBLISHED JUNE 20, 1939. Class 42.

370,428. FRESH FROZEN BERRIES, FRUITS, AND VEGETABLES; CANNED BERRIES; CANNED, DRIED, AND BOTTLED FRUITS; DRIED AND PRESERVED FIGS, ETC. AUSTIN, NICHOLS & CO., INCORPORATED, Brooklyn, N. Y.
Filed November 19, 1938. Serial No. 412,935. PUBLISHED JUNE 20, 1939. Class 46.

370,429. MEDICINAL AND PHARMACEUTICAL PREPARATIONS INDICATED FOR USE AS DROPS OR SPRAY FOR THE NOSE, THE NASAL PASSAGES, AND THE THROAT. FRANK MARION, doing business as Marion Pharmacal Laboratories, New York, N. Y.
Filed November 21, 1938. Serial No. 413,020. PUBLISHED JUNE 13, 1939. Class 6.

370,430. ENAMELED IRON PLUMBING FIXTURES—NAMELY, BATH TUBS, LAVATORIES, SINKS, URINALS, LAUNDRY TRAYS, AND DRINKING FOUNTAINS, AND VITREOUS CHINA PLUMBING FIXTURES—NAMELY, WATER CLOSET TANKS, WATER CLOSET BOWLS, URINALS, LAVATORIES, DRINKING FOUNTAINS, SINKS, AND LAUNDRY TRAYS. STANDARD SANITARY MFG. CO., Pittsburgh, Pa., and San Francisco, Oakland, and Sacramento, Calif.
Filed November 30, 1938. Serial No. 413,324. PUBLISHED JUNE 13, 1939. Class 13.

370,431. SAILBOATS. P. MARCUS LOWELL, Amesbury, Mass.
Filed December 2, 1938. Serial No. 413,413. PUBLISHED JUNE 6, 1939. Class 19.

370,432. GLASS CLEANER. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed December 2, 1938. Serial No. 413,424. PUBLISHED JANUARY 24, 1939. Class 4.

370,433. GLASS CLEANER. TRICO PRODUCTS CORPORATION, Buffalo, N. Y.
Filed December 2, 1938. Serial No. 413,425. PUBLISHED FEBRUARY 14, 1939. Class 4.

370,434. SKIN LOTION. KAY PREPARATIONS CO. INC., New York, N. Y.
Filed December 3, 1938. Serial No. 413,446. PUBLISHED JUNE 6, 1939. Class 6.

370,435. PHYSICIANS', SURGEONS', AND DENTISTS' INSTRUMENTS—NAMELY, FORCEPS, SCISSORS, RETRACTORS, KNIVES, ETC. SURGICAL SUPPLY CORPORATION, New York, N. Y.
Filed December 3, 1938. Serial No. 413,460. PUBLISHED JUNE 20, 1939. Class 44.

370,436. DECORATING AND PLANNING KITS CONSISTING OF CHARTS, PRINTED INSTRUCTION SHEETS AND SCALE RULER USED IN CONNECTION WITH DECORATING AND PLANNING OF HOMES. BRIDES HOUSE, INC., New York, N. Y.
Filed December 6, 1938. Serial No. 413,510. PUBLISHED JUNE 20, 1939. Class 50.

370,437. COTTON, RAYON ACETATE, SILK, LINEN, FLAX, WOOL, SYNTHETIC WOOL, ALPACA, AND JUTE PIECE GOODS MANUFACTURED AND SOLD BY IT. PURITAN PIECE DYE WORKS, Paterson, N. J.
Filed December 12, 1938. Serial No. 413,735. PUBLISHED JUNE 20, 1939. Class 42.

370,438. TOILET CREAMS, SHAMPOOS, DEODORANTS, BRILLIANTINES, AND PERFUMES. J. B. KNIGHT, SR., doing business as Old 97 Manufacturing Co. and La Charma Company, Tampa, Fla.
Filed December 16, 1938. Serial No. 413,967. PUBLISHED JUNE 13, 1939. Class 6.

370,439. PREPARATION OF VITAMINS AND MINERALS. DIETETIC RESEARCH LABORATORIES, INC., Bloomfield, N. J.
Filed December 29, 1938. Serial No. 414,289. PUBLISHED MAY 30, 1939. Class 6.

370,440. GLASS TABLEWARE AND DECORATIVE GLASS OF THE TYPE USED IN THE MAKING OF TABLE TOPS, CANDELABRAS, MIRRORS, AND ANALOGOUS ARTICLES OF MERCHANDISE MADE WHOLLY OR PARTLY OF GLASS. CAPE COD ART GLASS CO., North Abington, Mass.
Filed December 30, 1938. Serial No. 414,336. PUBLISHED JUNE 6, 1939. Class 33.

370,441. DENTIFRICE AND MOUTH WASH. ROSABELLE LEVY, doing business as Andresin Laboratories, Springfield Gardens, N. Y.
Filed December 31, 1938. Serial No. 414,421. PUBLISHED JUNE 6, 1939. Class 6.

370,442. LIPSTICKS. VALDOR, INC., New York, N. Y., assignor to Valdor, Inc., New York, N. Y., a corporation of New York.
Filed January 6, 1939. Serial No. 414,583. PUBLISHED JUNE 6, 1939. Class 6.

370,443. INSTRUMENTS FOR MEASURING RADIANT ENERGY. THE BROWN INSTRUMENT COMPANY, Philadelphia, Pa.
Filed January 12, 1939. Serial No. 414,724. PUBLISHED JUNE 20, 1939. Class 26.

370,444. LOCAL ANESTHETIC. FRANK P. CASO, New York, N. Y.
Filed January 19, 1939. Serial No. 415,024. PUBLISHED JUNE 6, 1939. Class 6.

370,445. PERFUMES. R. H. MACY & CO., INC., New York, N. Y.
Filed January 20, 1939. Serial No. 415,047. PUBLISHED JUNE 13, 1939. Class 6.

370,446. TOILET PAPER AND SANITARY PAPER TOWELS. THE UNION PAPER AND TWINE COMPANY, Cleveland, Ohio.
Filed January 20, 1939. Serial No. 415,060. PUBLISHED JUNE 20, 1939. Class 37.

370,447. VARNISH. S. C. JOHNSON & SON, INC., Racine, Wis.
Filed January 23, 1939. Serial No. 415,121. PUBLISHED JUNE 13, 1939. Class 16.

370,448. SAWDUST BURNERS AND COMMINUTED WOOD-WASTE BURNING HOT WATER HEATERS. WESTERN FOUNDRY COMPANY, Portland, Oreg.
Filed January 23, 1939. Serial No. 415,154. PUBLISHED MAY 30, 1939. Class 34.

370,449. MOUTH DEODORANT. EDMUND I. BRANOWER, doing business as Branower Chemical Company, New York, N. Y.
Filed January 24, 1939. Serial No. 415,156. PUBLISHED JUNE 6, 1939. Class 6.

370,450. SELF-LUMINOUS DEVICES—NAMELY, PENDANTS, ESCUTCHEON PLATES, AND SELF-LUMINOUS MARKERS, ETC. LUMINOUS PROCESSES, INC., New York, N. Y.
Filed January 26, 1939. Serial No. 415,253. PUBLISHED APRIL 11, 1939. Class 34.

370,451. PERFUMES, TOILET WATER, COLOGNE, POWDER, ROUGE. LES PARFUMS DE DANA, INC., New York, N. Y.
Filed January 27, 1939. Serial No. 415,295. PUBLISHED JUNE 13, 1939. Class 6.

370,452. INSECTICIDES AND FUNGICIDES. THE SOLVAY PROCESS COMPANY, New York, N. Y.
Filed January 27, 1939. Serial No. 415,304. PUBLISHED JUNE 6, 1939. Class 6.

370,453. INSECTICIDES AND FUNGICIDES. THE SOLVAY PROCESS COMPANY, New York, N. Y.
Filed January 27, 1939. Serial No. 415,305. PUBLISHED JUNE 6, 1939. Class 6.

370,454. WRITING AND PRINTING PAPER. STRATHMORE PAPER COMPANY, West Springfield, Mass.
Filed January 28, 1939. Serial No. 415,319. PUBLISHED JUNE 20, 1939. Class 37.

370,455. WEARING APPAREL — NAMELY, LADIES' AND MISSES' DRESSES, SWEATERS, NIGHTGOWNS, SLIPS, PANTIES, GIRDLES, AND BRASIÈRES; MEN'S AND BOYS' SWEATERS, OVERALLS, UNDERSHIRTS, SHORTS, UNION SUITS, PAJAMAS, NECKTIES, SCARFS, AND MUFFLERS. HARRY L. NEWMAN, New York, N. Y.
Filed February 1, 1939. Serial No. 415,484. PUBLISHED JUNE 6, 1939. Class 39.

370,456. TONICS FOR INCREASING ENERGY AND AVOIDING LOSS OF VITALITY, AND ROBORANTS. DR. ARMIN BAUER & CO. G. M. B. H., Berlin, Germany.
Filed February 2, 1939. Serial No. 415,493. PUBLISHED JUNE 6, 1939. Class 6.

370,457. ACCELERATOR ACTUATED BRAKE CONTROL WHICH AUTOMATICALLY CONTROLS THE OPERATION OF THE BRAKING SYSTEM ON AUTOMOBILES. JAMES A. APFFEL, doing business as Vac-U-Matic Products Co., Los Angeles, Calif.
Filed February 6, 1939. Serial No. 415,623. PUBLISHED JUNE 13, 1939. Class 19.

370,458. WHEAT FLOUR, ALL WHEAT FLOUR, CAKE FLOUR, PANCAKE FLOUR, FARINA, ROLLED OATS, RICE. TEXAS STAR FLOUR MILLS, Galveston, Tex.
Filed February 6, 1939. Serial No. 415,674. PUBLISHED JUNE 20, 1939. Class 46.

370,459. TEXTILE FABRICS AND PIECE GOODS OF SILK, WOOL, COTTON, LINEN, AND MIXTURES THEREOF, TABLE LINEN AND BED LINEN. COMPTOIR DES TEXTILES ARTIFICIELS, SOCIÉTÉ ANONYME, Paris, France.
Filed February 7, 1939. Serial No. 415,704. PUBLISHED JUNE 20, 1939. Class 42.

370,460. POTATOES. POLIWODA & ANASKY, Calverton, N. Y.
Filed February 8, 1939. Serial No. 415,795. PUBLISHED JUNE 20, 1939. Class 46.

370,461. THERAPEUTIC VITAMIN AND MINERAL DIETARY SUPPLEMENT. SUPPLEMENTAL NUTRITIONS COMPANY, Los Angeles, Calif.
Filed February 8, 1939. Serial No. 415,806. PUBLISHED JUNE 6, 1939. Class 6.

370,462. PATENT MEDICINE COMPOSED OF SALICYLIC ACID AND MERCUROCHROME, DISSOLVED IN RUBBING ALCOHOL, FOR THE TREATMENT OF ATHLETE'S FOOT, INSECT BITES AND STINGS. PAUL KENDA, doing business as Athletika Laboratories, San Antonio, Tex.
Filed February 11, 1939. Serial No. 415,950. PUBLISHED JUNE 6, 1939. Class 6.

370,463. MEDICINAL AND PHARMACEUTICAL PREPARATIONS INDICATED FOR USE AS DROPS OR SPRAY FOR THE NOSE, THE NASAL PASSAGES, AND THE THROAT. FRANK MARION, doing business as Marion Pharmacal Laboratories, New York, N. Y.
Filed February 11, 1939. Serial No. 415,951. PUBLISHED JUNE 13, 1939. Class 6.

370,464. SOLUTION OF GLANDULAR PRODUCTS AND MINERAL SALTS FOR TREATMENT OF ASTHMA, HAY-FEVER, AND SIMILAR ALLERGIC AFFLICTIONS. LA FOREST LABORATORIES COMPANY, New York and Long Island City, N. Y.
Filed February 13, 1939. Serial No. 415,989. PUBLISHED JUNE 6, 1939. Class 6.

370,465. COMPLETE MODERN PLUMBING UNITS FOR BUILDINGS, BATHROOM FIXTURES AND EQUIPMENT, ETC. JAMES F. RHOADS, doing business as National Sanitary Health Service, Media, Pa.
Filed February 14, 1939. Serial No. 416,016. PUBLISHED JUNE 6, 1939. Class 13.

370,466. PLIABLE, FLEXIBLE, CHEMICAL COATING FOR BARRELS, STORAGE TANKS, TANK CARS, KEGS, DRUMS, ETC., WHICH WATERPROOFS AND RENDERS THEM REPELLENT TO ALKALI, ACIDS, AND OXIDIZING AGENTS. THOMPSON-HAYWARD CHEMICAL COMPANY, Kansas City, Mo.
Filed February 17, 1939. Serial No. 416,168. PUBLISHED MAY 30, 1939. Class 6.

370,467. CANNED LUNCHEON MEAT—VIZ., A KIND OF COOKED MEAT LOAF. GEO. A. HORMEL & COMPANY, Austin, Minn.
Filed February 18, 1939. Serial No. 416,188. PUBLISHED JUNE 20, 1939. Class 46.

370,468. SHEETS AND PILLOW CASES. BELL TEXTILE COMPANY, New York, N. Y.
Filed February 20, 1939. Serial No. 416,244. PUBLISHED JUNE 20, 1939. Class 42.

370,469. PREPARATION FOR RESTORING COLOR TO GRAY AND FADED HAIR. EUGENE SIMON, doing business as E. Simon Company, Tampa, Fla.
Filed February 20, 1939. Serial No. 416,271. PUBLISHED JUNE 6, 1939. Class 6.

370,470. MEDICINAL PREPARATION FOR USE IN THE TREATMENT OF PARKINSON'S DISEASE. BIO-PRODUCTS LABORATORY CO., Brooklyn, N. Y.
Filed February 21, 1939. Serial No. 416,282. PUBLISHED JUNE 6, 1939. Class 6.

370,471. TABLETS CONTAINING CERTAIN DRUGS—NAMELY, PHENOBARBITAL AND BELLEDONNA EXTRACT, FOR USE IN TREATING DISTURBANCES IN COLON AND BOWELS. HAACK BROS. MANUFACTURING PHARMACISTS, Portland, Oreg.
Filed February 28, 1939. Serial No. 416,511. PUBLISHED JUNE 6, 1939. Class 6.

370,472. MEDICINAL PREPARATION RECOMMENDED FOR THE TREATMENT OF CORPUS LUTEUM DEFICIENCY AND ASSOCIATED DISORDERS. ROCHE-ORGANON, INC., Nutley, N. J.
Filed February 28, 1939. Serial No. 416,518. PUBLISHED APRIL 11, 1939. Class 6.

370,473. CERAMIC VASES, BOWLS, TEA POTS, SUGAR AND CREAMER SETS, SALT AND PEPPER SHAKERS, JAM JARS, PLATES AND COOKY JARS. M. C. WENTZ, Los Angeles, Calif.
Filed February 28, 1939. Serial No. 416,526. PUBLISHED MAY 30, 1939. Class 30.

370,474. WINE PUNCH. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash.
Filed March 1, 1939. Serial No. 416,541. PUBLISHED MAY 30, 1939. Class 47.

370,475. WINE PUNCH. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash.
Filed March 1, 1939. Serial No. 416,542. PUBLISHED MAY 30, 1939. Class 47.

370,476. WINE PUNCH. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash.
Filed March 1, 1939. Serial No. 416,543. PUBLISHED MAY 30, 1939. Class 47.

370,477. WINE PUNCH. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash.
Filed March 1, 1939. Serial No. 416,544. PUBLISHED MAY 30, 1939. Class 47.

370,478. WINE PUNCH. COLUMBIA WINERY AND FRUIT DISTILLING CO., INC., Vancouver, Wash.
Filed March 1, 1939. Serial No. 416,546. PUBLISHED MAY 30, 1939. Class 47.

370,479. ATTACHABLE INDICATING CHARTS FOR USE WITH COOKING APPARATUS FOR INDICATING THE TEMPERATURE AT WHICH AND THE TIME FOR WHICH DIFFERENT FOODS SHOULD BE COOKED. THE TAPPAN STOVE COMPANY, Mansfield, Ohio.
Filed March 1, 1939. Serial No. 416,587. PUBLISHED JUNE 20, 1939. Class 34.

370,480. ENVELOPES AND WRITING PAPER. GAW-O'HARA ENVELOPE CO., Chicago, Ill.
Filed March 2, 1939. Serial No. 416,604. PUBLISHED JUNE 20, 1939. Class 37.

370,481. INSECTICIDE AND PARASITE KILLER USED FOR AND APPLIED EXCLUSIVELY TO DOGS AND NO OTHER ANIMALS. WILLETT WARD HANNAN, doing business as The Eez Company, Jamaica, N. Y.
Filed March 2, 1939. Serial No. 416,607. PUBLISHED MAY 30, 1939. Class 6.

370,482. MEDICINAL PREPARATION FOR USE IN RELIEVING THE CONSEQUENCES OF OVER-INDULGENCE IN ALCOHOLIC AND SPIRITOUS BEVERAGES. JOSEPH M. PERSSE, doing business as Atlantic Laboratories, Savannah, Ga.
Filed March 2, 1939. Serial No. 416,615. PUBLISHED JUNE 13, 1939. Class 6.

370,483. TOOTH POWDER, MOUTH WASH, LIQUID SKIN LOTION, SKIN OINTMENT, PETROLEUM JELLY, DEODORANT, AND COSMETIC CREAM. STANDARD ANTISEPTICS INC., New York, N. Y.
Filed March 4, 1939. Serial No. 416,706. PUBLISHED JUNE 6, 1939. Class 6.

370,484. PRODUCT FOR BAKERY USE COMPRISING SKIMMED MILK POWDER TO WHICH HAS BEEN ADDED A SMALL QUANTITY OF A FOOD INGREDIENT CONTAINING PROTEINS, CARBOHYDRATES, EDIBLE MINERAL SALTS, AND AN ORGANIC ACID SUCH AS LACTIC ACID. Cow & GATE (CANADA) LIMITED, Gananoque, Ontario, Canada.
Filed March 6, 1939. Serial No. 416,722. PUBLISHED JUNE 20, 1939. Class 46.

370,485. REDUCING PREPARATION. MILLER DRUG CO., Rochester, N. Y.
Filed March 6, 1939. Serial No. 416,736. PUBLISHED JUNE 6, 1939. Class 6.

370,486. ANTACID TABLETS. REKONSO PRODUCTS INCORPORATED, Miami, Fla.
Filed March 6, 1939. Serial No. 416,745. PUBLISHED JUNE 6, 1939. Class 6.

370,487. CONFECTIONERS' CORN SYRUP CONTAINING DEXTRINS, MALTOSE, AND DEXTROSE. UNION SALES CORPORATION, Columbus, Ind.
Filed March 6, 1939. Serial No. 416,751. PUBLISHED JUNE 20, 1939. Class 46.

370,488. SPECIALLY PREPARED FOOD PRODUCT—NAMELY, A FRIED FLOUR MIXTURE COMMONLY KNOWN AS DOUGH AND ROLLED OUT AND CUT INTO STRIPS AND/OR CHIP FORM. WALTER E. WEISLER, doing business as The Maysett Co., Massillon, Ohio.
Filed March 6, 1939. Serial No. 416,754. PUBLISHED JUNE 20, 1939. Class 46.

370,489. X-RAY APPARATUS FOR INDUSTRIAL PURPOSES. ADAM HILGER LIMITED, London, England.
Filed March 7, 1939. Serial No. 416,767. PUBLISHED JUNE 20, 1939. Class 26.

370,490. SIGHTS. STEPHEN M. WAGNER, INCORPORATED, St. Louis, Mo.
Filed March 8, 1939. Serial No. 416,817. PUBLISHED JUNE 20, 1939. Class 26.

370,491. KNIT WOOL, WOOL MIXED CLOTH, WOOL AND RAYON CLOTH, WOOL AND COTTON CLOTH, WOOL AND WORSTED CLOTH, CLOTH MADE FROM WOOL, MOHAIR, ALPACA, AND CAMEL HAIR SUITABLE FOR MAKING COATINGS, BLANKETS, BATHROBES, AND SPORTSWEAR. FAITH MILLS, INC., Averill Park, N. Y.
Filed March 9, 1939. Serial No. 416,845. PUBLISHED JUNE 20, 1939. Class 42.

370,492. FOOT POWDER. THE GEORGE ARLEN FOOT HEALTH CENTER LTD., New York, N. Y.
Filed March 10, 1939. Serial No. 416,886. PUBLISHED JUNE 20, 1939. Class 6.

370,493. HAIR POMADE. LULU CLAYTON, doing business as Madam Lulu Clayton, Kinloch, Mo.
Filed March 10, 1939. Serial No. 416,891. PUBLISHED JUNE 6, 1939. Class 6.

370,494. MEDICINAL TABLETS FOR RELIEF OF ACHES AND PAINS CAUSED BY SIMPLE COLDS AND SIMPLE NEURALGIA AND HEADACHE, AND OF MUSCLE PAINS AND THE DISCOMFORT OF SUPERFICIAL MENSTRUAL DISORDERS, AND OF PAIN AFTER TOOTH EXTRACTION. ROBERT WM. JOHNSON, Baltimore, Md.
Filed March 10, 1939. Serial No. 416,900. PUBLISHED JUNE 6, 1939. Class 6.

370,495. LIQUID AMMONIA BATH PREPARATION. XANDRA LIMITED, New York, N. Y.
Filed March 10, 1939. Serial No. 416,929. PUBLISHED JUNE 6, 1939. Class 6.

370,496. TOFFEE AND SUGAR CONFECTIONERY—NAMELY, CANDY AND SWEET CHOCOLATE. WALTERS' "PALM" TOFFEE LIMITED, doing business as Palm Works, London, England.
Filed March 11, 1939. Serial No. 416,977. PUBLISHED JUNE 20, 1939. Class 46.

370,497. PAINTERS' STENCILS. BRO-KADE WALL FINISH CO., INC., Milwaukee, Wis.
Filed March 13, 1939. Serial No. 416,982. PUBLISHED JUNE 20, 1939. Class 23.

370,498. METAL FORM PLATES FOR USE IN CONCRETE STRUCTURES DURING THE SETTING AND HARDENING THEREOF, COMPRISING SPREADER TIE PULLERS, PIN TOOLS, PLATE CLAMP TOOLS, GROUT GUNS, DRIFT PIN TOOLS, LOCKING PINS, AND CUTTING NIPPERS. ECONOMY FORMS CORPORATION, Des Moines, Iowa.
Filed March 13, 1939. Serial No. 417,003. PUBLISHED JUNE 20, 1939. Class 23.

370,499. CHEMICAL PREPARATIONS FOR FINISHING, SIZING, AND OTHERWISE PROCESSING TEXTILES AND TEXTILE FABRICS. AQUA-SEC CORP., New York, N. Y.
Filed March 14, 1939. Serial No. 417,047. PUBLISHED JUNE 6, 1939. Class 6.

370,500. TACKS, NAILS, GLAZIERS' POINTS, AND MACHINE AND CARPET STAPLES. SNELL-JONES TACK CORP., Brockton, Mass.
Filed March 15, 1939. Serial No. 417,104. PUBLISHED JUNE 13, 1939. Class 13.

370,501. CHEESE. HOLLAND FOOD CORPORATION, New York, N. Y.
Filed March 17, 1939. Serial No. 417,172. PUBLISHED JUNE 20, 1939. Class 46.

370,502. ASTRINGENTS, ASTRINGENT CERATES, BEAUTY CREAMS, BLEACH CREAMS, COLD CREAMS, CLEANSING CREAMS, ETC. MAISON JOUBERT, INC., Jersey City, N. J.
Filed March 17, 1939. Serial No. 417,177. PUBLISHED JUNE 6, 1939. Class 6.

370,503. ORANGE BEVERAGES AND SYRUPS FOR THE SAME. GENERAL BEVERAGE CORP., Springfield, Mass.
Filed March 20, 1939. Serial No. 417,278. PUBLISHED JUNE 20, 1939. Class 45.

370,504. WORSTED AND WOOLEN PIECE GOODS. PRINCETON WORSTED MILLS, INC., Trenton, N. J.
Filed March 20, 1939. Serial No. 417,299. PUBLISHED JUNE 20, 1939. Class 42.

370,505. SCREEN AND MULTIPLE BAFFLE WINDOW VENTILATORS. VITAGUARD CORPORATION, Sellersville, Pa.
Filed March 20, 1939. Serial No. 417,315. PUBLISHED MAY 30, 1939. Class 34.

370,506. HAIR COLORING AND SHAMPOO TREATMENT. AMIROL-ADMIRACION SALES CORPORATION, Newark, N. J.
Filed March 22, 1939. Serial No. 417,355. PUBLISHED JUNE 6, 1939. Class 6.

370,507. PUNCHING MACHINES, PLANING MACHINES, SHEARING MACHINES, BENDING MACHINES, STRAIGHTENING MACHINES, BENDING ROLLS, ETC. THE CLEVELAND PUNCH & SHEAR WORKS CO., Cleveland, Ohio.
Filed March 22, 1939. Serial No. 417,359. PUBLISHED JUNE 20, 1939. Class 23.

370,508. SCALP TONIC. FRANK LABAGNARA, doing business as Labagnara & Son, Cleveland, Ohio.
Filed March 22, 1939. Serial No. 417,377. PUBLISHED JUNE 6, 1939. Class 6.

370,509. CHEMICAL COMPOUND FOR USE IN THE UNHAIRING OF ANIMAL HIDES. AMERICAN CYANAMID & CHEMICAL CORPORATION, New York, N. Y.
Filed March 23, 1939. Serial No. 417,394. PUBLISHED JUNE 6, 1939. Class 6.

370,510. CHEMICAL COMPOUND FOR DEVELOPING A PHOTOGRAPHIC NEGATIVE. JUSTIN J. MCCARTHY, doing business as The Wilmac Laboratories, Brighton, Boston, Mass.
Filed March 23, 1939. Serial No. 417,406. PUBLISHED JUNE 6, 1939. Class 6.

370,511. DUSTING, BURNING, AND SOIL SULPHUR. VALLEY SULPHUR COMPANY, Lodi, Calif.
Filed March 23, 1939. Serial No. 417,424. PUBLISHED JUNE 6, 1939. Class 6.

370,512. ELECTRIC SWITCHES AND ELECTRIC CONTACTORS. THE ELECTRIC CONTROLLER & MFG. CO., Cleveland, Ohio.
Filed March 24, 1939. Serial No. 417,446. PUBLISHED JUNE 20, 1939. Class 21.

370,513. ASSEMBLED LENSES AND MOUNTINGS THEREFOR WHICH ARE SOLD AS UNITS FOR USE IN CAMERAS, TELESCOPES, RIFLE SIGHTS, AND PROJECTORS. GENERAL SCIENTIFIC CORPORATION, Chicago, Ill.
Filed March 24, 1939. Serial No. 417,455. PUBLISHED JUNE 20, 1939. Class 26.

370,514. WATERPROOFING COMPOUND FOR TEXTILES. THE HART PRODUCTS CORPORATION, New York, N. Y.
Filed March 24, 1939. Serial No. 417,457. PUBLISHED JUNE 13, 1939. Class 6.

370,515. COUGH DROPS. ROSS-PERRY CORP., New York, N. Y.
Filed March 24, 1939. Serial No. 417,474. PUBLISHED JUNE 6, 1939. Class 6.

370,516. MEDICINAL PREPARATION FOR STIMULATING FERTILITY IN FEMALES. BEMAX LABORATORIES, INC., New York, N. Y.
Filed March 25, 1939. Serial No. 417,478. PUBLISHED JUNE 13, 1939. Class 6.

370,517. COKE. HICKMAN, WILLIAMS & CO., Cincinnati, Ohio.
Filed March 25, 1939. Serial No. 417,492. PUBLISHED JUNE 20, 1939. Class 1.

370,518. MEDICINAL COMPOUNDS FOR TREATMENT OF GASTRO-INTESTINAL TRACT. JOHN WYETH & BROTHER, INCORPORATED, Philadelphia, Pa.
Filed March 25, 1939. Serial No. 417,515. PUBLISHED JUNE 13, 1939. Class 6.

370,519. OIL, COAL, AND GAS BURNING FURNACES, WITH AND WITHOUT AIR CONDITIONING EQUIPMENT. MICHIGAN TANK & FURNACE CORPORATION, Detroit, Mich.
Filed March 27, 1939. Serial No. 417,547. PUBLISHED MAY 30, 1939. Class 34.

370,520. ANTISEPTIC AND GERMICIDE. THE R. T. FRENCH COMPANY, Rochester, N. Y.
Filed March 28, 1939. Serial No. 417,569. PUBLISHED JUNE 6, 1939. Class 6.

370,521. ANTISEPTIC AND GERMICIDE. THE R. T. FRENCH COMPANY, Rochester, N. Y.
Filed March 28, 1939. Serial No. 417,571. PUBLISHED JUNE 6, 1939. Class 6.

370,522. PREPARATIONS FOR THE HAIR AND TREATMENT OF THE SCALP. MME. MARTHA LEWIS, Donora, Pa.
Filed March 28, 1939. Serial No. 417,580. PUBLISHED JUNE 6, 1939. Class 6.

370,523. MOTOR VEHICLE INTERNAL COMBUSTION ENGINES. MACK MANUFACTURING CORPORATION, Long Island City, N. Y.
Filed March 28, 1939. Serial No. 417,582. PUBLISHED JUNE 20, 1939. Class 23.

370,524. METAL TUBING. SUPERIOR TUBE COMPANY, Philadelphia and Norristown, Pa.
Filed March 28, 1939. Serial No. 417,594. PUBLISHED JUNE 13, 1939. Class 13.

370,525. PLOWS, PLOWSHARES, AND PARTS THEREOF. OLIVER FARM EQUIPMENT COMPANY, Chicago, Ill.
Filed March 29, 1939. Serial No. 417,623. PUBLISHED JUNE 20, 1939. Class 23.

370,526. PROPELLER FANS. B. F. STURTEVANT COMPANY, Hyde Park, Boston, Mass.
Filed March 29, 1939. Serial No. 417,629. PUBLISHED MAY 30, 1939. Class 34.

370,527. MECHANICS' HAND TOOLS—NAMELY, WRENCHES. BONNEY FORGE & TOOL WORKS, Allentown, Pa.
Filed March 30, 1939. Serial No. 417,638. PUBLISHED JUNE 20, 1939. Class 23.

370,528. OINTMENT FOR SKIN DISEASES. DALAR MEDICAL LABORATORIES, INC., New York, N. Y.
Filed March 30, 1939. Serial No. 417,644. PUBLISHED JUNE 13, 1939. Class 6.

370,529. WINES. ITALIAN SWISS COLONY, San Francisco, Calif.
Filed March 31, 1939. Serial No. 417,734. PUBLISHED MAY 30, 1939. Class 47.

370,530. GARMENT PATTERNS. THE NATIONAL PATTERN CO., INC., New York, N. Y.
Filed April 1, 1939. Serial No. 417,770. PUBLISHED JUNE 20, 1939. Class 26.

370,531. GARMENT PATTERNS. THE NATIONAL PATTERN CO., INC., New York, N. Y.
Filed April 1, 1939. Serial No. 417,771. PUBLISHED JUNE 20, 1939. Class 26.

370,532. CANDY BARS. THE CANDY HOUSE, Seattle Wash.
Filed April 3, 1939. Serial No. 417,797. PUBLISHED JUNE 20, 1939. Class 46.

370,533. VACUUM PACKED SHOESTRING POTATOES. MAINE STATE PACKING COMPANY, INC., Boothbay Harbor, Maine.
Filed April 3, 1939. Serial No. 417,809. PUBLISHED JUNE 20, 1939. Class 46.

370,534. PREPARATION USED IN THE TREATMENT OF CROUP, SORE THROAT, HOARSENESS, ET CETERA. J. M. MARMADUKE, Deepwater, Mo.
Filed April 3, 1939. Serial No. 417,810. PUBLISHED JUNE 6, 1939. Class 6.

370,535. PREPARATION USEFUL AS A TONIC AND RECONSTITUENT TO AID IN THE DEVELOPMENT OF CHILDREN, ETC. THE ULRICI MEDICINE COMPANY, INC., New York, N. Y.
Filed April 3, 1939. Serial No. 417,828. PUBLISHED JUNE 13, 1939. Class 6.

370,536. ELECTRICAL CONNECTORS. MONOWATT ELECTRIC CORPORATION, Providence, R. I.
Filed April 4, 1939. Serial No. 417,846. PUBLISHED JUNE 20, 1939. Class 21.

370,537. LIGHTING REFLECTORS. REFLECTORS, INC., Philadelphia, Pa.
Filed April 4, 1939. Serial No. 417,851. PUBLISHED JUNE 20, 1939. Class 34.

370,538. PIECE GOODS OF COTTON, RAYON, AND COMBINATIONS THEREOF USED IN THE MANUFACTURE OF LADIES' DRESSES AND BLOUSES. UTILITY DRESS CO., New York, N. Y.
Filed April 4, 1939. Serial No. 417,855. PUBLISHED JUNE 20, 1939. Class 42.

370,539. CANDIES WITH PURE MALTED MILK CENTERS, AND MILK CHOCOLATE COATING. THE BORDEN COMPANY, New York, N. Y.
Filed April 5, 1939. Serial No. 417,867. PUBLISHED JUNE 20, 1939. Class 46.

370,540. PERFUME AND DEODORANT DISPENSING DIFFUSERS AND DISSEMINATORS FOR ATTACHMENT TO LAMPS. LYNDON PRODUCTS CORPORATION, Norwalk, Conn.
Filed April 5, 1939. Serial No. 417,881. PUBLISHED JUNE 20, 1939. Class 13.

370,541. PERFUME. LYNDON PRODUCTS CORPORATION, Norwalk, Conn.
Filed April 5, 1939. Serial No. 417,882. PUBLISHED JUNE 13, 1939. Class 6.

370,542. VITAMIN PREPARATIONS. WEBB LABORATORIES, INC., Schenectady, N. Y.
Filed April 6, 1939. Serial No. 417,947. PUBLISHED JUNE 13, 1939. Class 6.

370,543. INSECTICIDES. GENERAL CHEMICAL COMPANY, New York, N. Y.
Filed April 7, 1939. Serial No. 417,963. PUBLISHED JUNE 13, 1939. Class 6.

370,544. VITAMIN A PREPARATION FOR THE PREVENTION AND TREATMENT OF DEFICIENCIES OF GROWTH-PROMOTING AND ANTIOPHTHALMIC VITAMIN A. WINTHROP CHEMICAL COMPANY, INC., New York, N. Y.
Filed April 7, 1939. Serial No. 417,991. PUBLISHED JUNE 13, 1939. Class 6.

370,545. ASTRINGENT, ASTRINGENT CERATE, BLEACH CREAM, BEAUTY CREAM, PERFUMES, COLD CREAM, CLEANSING CREAM, REFRESHING CREAM, ETC. YARDLEY OF LONDON, INC., Union City N. J.
Filed April 7, 1939. Serial No. 417,992. PUBLISHED JUNE 6, 1939. Class 6.

370,546. PYROPHORIC CIGARETTE AND CIGAR LIGHTERS. JULIUS KOHN, doing business as the Imco Co., New York, N. Y.
Filed April 8, 1939. Serial No. 418,008. PUBLISHED JUNE 20, 1939. Class 34.

370,547. CANDY CONFECTION FOR USE IN DECORATING CAKES, COOKIES, PIES, AND OTHER FOODS. NATIONAL CANDY CO., INC., St. Louis, Mo.
Filed April 8, 1939. Serial No. 418,013. PUBLISHED JUNE 20, 1939. Class 46.

370,548. STEAM EGG POACHERS MADE OF ALUMINUM METAL OR OTHER BASE METALS. SERR MANUFACTURING COMPANY, New York N. Y.
Filed April 8, 1939. Serial No. 418,016. PUBLISHED JUNE 13, 1939. Class 13.

370,549. NONALCOHOLIC, MALTLESS, NONCEREAL BEVERAGES SOLD AS SOFT DRINKS—NAMELY, NATURAL ALKALINE MINERAL WATER AND MINERAL CLUB SODA. MIN-AQUA CO., INC., Caldwell Township, N. J.
Filed April 10, 1939. Serial No. 418,050. PUBLISHED JUNE 20, 1939. Class 45.

370,550. AROMATIC SUBSTANCES TO BE ADDED TO INDUSTRIAL PRODUCTS TO IMPROVE THE ODOR THEREOF. MONSANTO CHEMICAL COMPANY, St. Louis, Mo.
Filed April 10, 1939. Serial No. 418,051. PUBLISHED JUNE 13, 1939. Class 6.

370,551. CHEMICAL IN POWDER FORM USED FOR CLEANING STEAM BOILERS, STEAM MAINS AND RETURNS, AUTOMOBILE RADIATORS, HOT WATER HEATING SYSTEMS, CIRCULATION LINES, AND TURBINES. MAX WINDSCHAUER, doing business as Kleenco Boiler Products Company, New York, N. Y.
Filed April 10, 1939. Serial No. 418,082. PUBLISHED JUNE 13, 1939. Class 6.

370,552. PERFUMES, FACE POWDER, LIPSTICKS, FACE CREAMS, LOTIONS, AND HAIR TONICS. BABS CREATIONS, INC., New York, N. Y.
Filed April 11, 1939. Serial No. 418,087. PUBLISHED JUNE 13, 1939. Class 6.

370,553. CRULLERS, DOUGHNUTS, AND FRIED CAKES. THE DUNK DONUT CO., Cleveland, Ohio.
Filed April 11, 1939. Serial No. 418,095. PUBLISHED JUNE 20, 1939. Class 46.

370,554. CANDY BARS. THE EUCLID CANDY CO. OF CALIFORNIA, INC., San Francisco, Calif.
Filed April 11, 1939. Serial No. 418,096. PUBLISHED JUNE 20, 1939. Class 46.

370,555. WINES. ITALIAN SWISS COLONY, San Francisco, Calif.
Filed April 11, 1939. Serial No. 418,106. PUBLISHED JUNE 13, 1939. Class 47.

370,556. LEATHER IN THE PIECE. MITCHELL & PEIRSON INC., Philadelphia, Pa.
Filed April 11, 1939. Serial No. 418,113. PUBLISHED JUNE 20, 1939. Class 1.

370,557. TEXTILE FABRICS IN THE PIECE—NAMELY, SILK FABRICS, RAYON FABRICS, FABRICS CONSISTING OF A MIXTURE OF RAYON AND SILK, AND COTTON, WOOLEN, OR LINEN FABRICS. NATIONAL FABRICS CORPORATION, New York, N. Y.
Filed April 12, 1939. Serial No. 418,162. PUBLISHED JUNE 20, 1939. Class 42.

370,558. CANNED FRUITS, AND CANNED FRUIT JUICES FOR FOOD PURPOSES. FLORIDA FRUIT CANNERS, INC., Frostproof, Fla.
Filed April 13, 1939. Serial No. 418,191. PUBLISHED JUNE 20, 1939. Class 46.

370,559. TOMATO CATSUP. WINDSOR PRODUCTS CO. INC., Bridgeton, N. J.
Filed April 13, 1939. Serial No. 418,223. PUBLISHED JUNE 20, 1939. Class 46.

370,560. ELECTRICAL APPARATUS AND MACHINES AND ACCESSORIES, CONSISTING OF PORTABLE ELECTRIC TOOLS FOR USE IN SUCH CRAFT WORK AS DRILLING, BORING, GRINDING, BUFFING, BURNISHING, SCREW DRIVING, NUT RUNNING, AND THE LIKE. THE BLACK & DECKER MANUFACTURING COMPANY, Towson, Md.
Filed April 14, 1939. Serial No. 418,234. PUBLISHED JUNE 20, 1939. Class 21.

370,561. WINES. SCHENLEY IMPORT CORPORATION, New York, N. Y.
Filed April 14, 1939. Serial No. 418,270. PUBLISHED JUNE 13, 1939. Class 47.

370,562. WINES. SCHENLEY IMPORT CORPORATION, New York, N. Y.
Filed April 14, 1939. Serial No. 418,271. PUBLISHED JUNE 13, 1939. Class 47.

370,563. BLEACH, DISINFECTANT, DEODORANT, AND CLEANSER. F. UDDO & SONS, New Orleans, La.
Filed April 14, 1939. Serial No. 418,276. PUBLISHED JUNE 6, 1939. Class 6.

370,564. SEED TREATING COMPOUNDS, DISINFECTANTS, REPELLENTS, INSECTICIDES, GERMICIDES, FUNGICIDES. PARSONS CHEMICAL WORKS, Grand Ledge, Mich.
Filed April 15, 1939. Serial No. 418,310. PUBLISHED JUNE 13, 1939. Class 6.

370,565. PYROPHORIC LIGHTERS. SHOOT-A-LITE CORPORATION, New York, N. Y.
Filed April 15, 1939. Serial No. 418,314. PUBLISHED JUNE 20, 1939. Class 34.

370,566. PLUMBING RUBBER SPECIALTIES—NAMELY, RUBBER TANK BALLS. SIERRA RUBBER COMPANY, Los Angeles, Calif.
Filed April 15, 1939. Serial No. 418,315. PUBLISHED JUNE 13, 1939. Class 13.

370,567. CANNED FRUITS, CANNED VEGETABLES, CANNED FISH, CANNED FRUIT JUICES FOR FOOD PURPOSES, CANNED VEGETABLE JUICES FOR FOOD PURPOSES AND DRIED FRUITS. HOMELIKE CANNING & PACKING CO., San Francisco, Calif.
Filed April 17, 1939. Serial No. 418,340. PUBLISHED JUNE 20, 1939. Class 46.

370,568. INSECTICIDE AND VERMIN DESTROYER. SIDNEY G. SIMONS, doing business as The Carr Chemical Co., Columbus, Ga.
Filed April 17, 1939. Serial No. 418,369. PUBLISHED MAY 30, 1939. Class 6.

370,569. CANNED FRUITS, CANNED VEGETABLES, AND CANNED FRUIT JUICES FOR FOOD PURPOSES. TYRRELL & GARTH, INC., also doing business as the Palm Valley Canning Company, Houston, Tex.
Filed April 17, 1939. Serial No. 418,375. PUBLISHED JUNE 20, 1939. Class 46.

370,570. REGISTERS, GRILLES, AND DAMPER CONTROL SETS, ALL FOR USE IN AIR CONDITIONING SYSTEMS. AIR CONTROL PRODUCTS, INC., Muskegon, Mich.
Filed April 17, 1939. Serial No. 418,396. PUBLISHED JUNE 20, 1939. Class 34.

370,571. LAXATIVE. THE CASCO COMPANY, Canton, Ohio.
Filed April 17, 1939. Serial No. 418,397. PUBLISHED MAY 30, 1939. Class 6.

370,572. ANTACID. THE CASCO COMPANY, Canton, Ohio.
Filed April 17, 1939. Serial No. 418,398. PUBLISHED MAY 30, 1939. Class 6.

370,573. PAPER-SIZING COMPOSITION INTENDED MORE ESPECIALLY FOR ADMIXTURE WITH THE PAPERMAKING STOCK, AS IN THE BEATER ENGINE. VICTOR G. BLOEDE COMPANY INCORPORATED, Baltimore, Md.
Filed April 18, 1939. Serial No. 418,404. PUBLISHED MAY 30, 1939. Class 6.

370,574. FRESH VEGETABLES. W. B. GRAINGER PACKING COMPANY, Salinas, Calif.
Filed April 18, 1939. Serial No. 418,406. PUBLISHED JUNE 20, 1939. Class 46.

370,575. TOILET POWDERS, TOILET LOTIONS, TOILET EMULSIONS, TOILET CREAMS, AND IMPREGNATED PADS AND TISSUES FOR TOILET PURPOSES. H. E. JARVIS & CO., LIMITED, London, England.
Filed April 18, 1939. Serial No. 418,410. PUBLISHED MAY 30, 1939. Class 6.

370,576. MEDICINAL PREPARATIONS USED IN BACTERIAL INFECTIONS. MERCK & CO. INC., Rahway, N. J.
Filed April 18, 1939. Serial No. 418,414. PUBLISHED MAY 30, 1939. Class 6.

370,577. METAL PIPES AND TUBES. THE NATIONAL SUPPLY COMPANY, Pittsburgh, Pa.
Filed April 18, 1939. Serial No. 418,415. PUBLISHED JUNE 20, 1939. Class 13.

370,578. CHEMICAL FOR TREATING TEXTILE MATERIALS. REFINED PRODUCTS CORPORATION, Newark, N. J.
Filed April 18, 1939. Serial No. 418,420. PUBLISHED MAY 30, 1939. Class 6.

370,579. PREPARATIONS USEFUL AS AN AID TO CONVALESCENCE FROM ILLNESS, AS TONICS AND RECONSTITUENTS TO AID IN THE DEVELOPMENT OF CHILDREN, ETC. THE ULRICI MEDICINE COMPANY, INC., New York, N. Y.
Filed April 18, 1939. Serial No. 418,424. PUBLISHED JUNE 6, 1939. Class 6.

370,580. TOOTH POWDER. THOMAS PALMIERI, doing business as Shapira Chemical Company, San Anselmo, Calif.
Filed April 19, 1939. Serial No. 418,449. PUBLISHED MAY 30, 1939. Class 6.

370,581. SOLID METAL STAYS, BOLTS, CLEVISES, CLEVIS PINS, COTTER PINS, END FITTINGS FOR STAYS, STAY SPREADERS, AND TANGS. PENNSYLVANIA AIRCRAFT SYNDICATE, LTD., Philadelphia, Pa.
Filed April 19, 1939. Serial No. 418,450. PUBLISHED JUNE 13, 1939. Class 13.

370,582. PAINTS (READY MIXED, PASTE FORM, AND DRY), PAINT ENAMELS, LACQUERS, JAPANS, VARNISHES, STAINS, PAINT FILLERS, WATER PAINTS, WHITE LEAD, DRY PAINT COLORS, AND PAINT PIGMENTS. THE SHERWIN-WILLIAMS CO., Cleveland, Ohio.
Filed April 19, 1939. Serial No. 418,452. PUBLISHED JUNE 20, 1939. Class 16.

370,583. POULTRY, SAUSAGE, PREPARED, CURED, AND SMOKED PORK AND BEEF. SWIFT AND COMPANY, Chicago, Ill.
Filed April 19, 1939. Serial No. 418,454. PUBLISHED JUNE 20, 1939. Class 46.

370,584. SOAP. LEVER BROTHERS COMPANY, Cambridge, Mass.
Filed April 20, 1939. Serial No. 418,485. PUBLISHED JUNE 20, 1939. Class 4.

370,585. INSECTICIDES AND FUNGICIDES. THE SHERWIN-WILLIAMS CO., Cleveland, Ohio.
Filed April 20, 1939. Serial No. 418,497. PUBLISHED MAY 30, 1939. Class 6.

370,586. WHEAT PRODUCT — NAMELY, WHEAT FLOUR FORTIFIED WITH WHEAT GERM AND OTHER PORTIONS OF WHEAT. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed April 21, 1939. Serial No. 418,517. PUBLISHED JUNE 20, 1939. Class 46.

370,587. WHEAT PRODUCT — NAMELY, WHEAT, FLOUR FORTIFIED WITH WHEAT GERM AND OTHER PORTIONS OF WHEAT. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed April 21, 1939. Serial No. 418,518. PUBLISHED JUNE 20, 1939. Class 46.

370,588. WHEAT PRODUCT — NAMELY, WHEAT FLOUR FORTIFIED WITH WHEAT GERM AND OTHER PORTIONS OF WHEAT. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed April 21, 1939. Serial No. 418,519. PUBLISHED JUNE 20, 1939. Class 46.

370,589. WHEAT PRODUCT — NAMELY, WHEAT FLOUR FORTIFIED WITH WHEAT GERM AND OTHER PORTIONS OF WHEAT. FISHER FLOURING MILLS COMPANY, Seattle, Wash.
Filed April 21, 1939. Serial No. 418,520. PUBLISHED JUNE 20, 1939. Class 46.

370,590. SYRUP USED FOR ASTHMA, BRONCHITIS, COUGHS, AND OTHER RESPIRATORY AILMENTS, LINO MANZONI, doing business as Linok Herbal Products, New York, N. Y.
Filed April 21, 1939. Serial No. 418,524. PUBLISHED MAY 30, 1939. Class 6.

370,591. CREAM FOR BURNS AND SPRAINS. LINO MANZONI, doing business as Linok Herbal Products, New York, N. Y.
Filed April 21, 1939. Serial No. 418,525. PUBLISHED MAY 30, 1939. Class 6.

370,592. PREPARATION CONTAINING THE GLYCOSIDES OF DIGITALIS IN ITS NATURAL FORM AND PROPORTION. DR. GEORG HENNING CHEM. PHARM. WERK G. M. B. H., Berlin-Tempelhof, Germany.
Filed April 22, 1939. Serial No. 418,569. PUBLISHED JUNE 6, 1939. Class 6.

370,593. STANDARDIZED ADRENALIN EXTRACT USED FOR INFECTIOUS DISEASES AND FOR THE BASEDOW TESTS. DR GEORG. HENNING CHEM. PHARM. WERK. G. M. B. H., Berlin-Tempelhof, Germany.
Filed April 22, 1939. Serial No. 418,570. PUBLISHED JUNE 6, 1939. Class 6.

370,594. LINOLEUM CUTTING TOOLS. C. HOWARD HUNT PEN CO., Camden, N. J.
Filed April 22, 1939. Serial No. 418,577. PUBLISHED JUNE 20, 1939. Class 23.

370,595. PERFUMES, TOILET WATERS, FACE POWDERS, TALCUM POWDERS, FACE CREAMS, ROUGE, LIPSTICKS, SACHETS, BATH SALTS, BRILLIANTINE, LOTION FOR THE SKIN AND HAIR. SOCIETE ANONYME PARFUMERIE F. MILLOT, Paris, France.
Filed April 22, 1939. Serial No. 418,603. PUBLISHED MAY 30, 1939. Class 6.

370,596. WEB PRINTING MACHINES AND ACCESSORIES. CHAMBON CORPORATION, Garfield, N. J.
Filed April 24, 1939. Serial No. 418,629. PUBLISHED JUNE 20, 1939. Class 23.

370,597. VEGETABLE SHORTENING. THE GLIDDEN COMPANY, doing business as Durkee Famous Foods, Cleveland, Ohio.
Filed April 24, 1939. Serial No. 418,634. PUBLISHED JUNE 20, 1939. Class 46.

370,598. MEDICINAL TONIC AND APPETITE STIMULANT. S. PFEIFFER MFG. CO., St. Louis, Mo.
Filed April 24, 1939. Serial No. 418,649. PUBLISHED JUNE 6, 1939. Class 6.

370,599. MOTION PICTURE SCREENS. WILLIAM LOUIS ROESSNER, Chicago, Ill.
Filed April 25, 1939. Serial No. 418,692. PUBLISHED JUNE 20, 1939. Class 26.

370,600. HAND SAWS. U. S. EXPANSION BOLT CO., York, Pa.
Filed April 25, 1939. Serial No. 418,694. PUBLISHED JUNE 20, 1939. Class 23.

370,601. HAND SAWS. U. S. EXPANSION BOLT CO., York, Pa.
Filed April 25, 1939. Serial No. 418,695. PUBLISHED JUNE 20, 1939. Class 23.

370,602. HAND SAWS. U. S. EXPANSION BOLT CO., York, Pa.
Filed April 25, 1939. Serial No. 418,697. PUBLISHED JUNE 20, 1939. Class 23.

370,603. LIQUID PAINT ENAMELS. THE AMERICAN VARNISH COMPANY, Chicago, Ill.
Filed April 26, 1939. Serial No. 418,699. PUBLISHED JUNE 20, 1939. Class 16.

370,604. HYDRAULIC STOKERS. HYDRAULIC MFG. COMPANY, Troy, Ill.
Filed April 26, 1939. Serial No. 418,715. PUBLISHED JUNE 20, 1939. Class 34.

370,605. WHITE LEAD, DRY AND IN OIL, AND OXIDES OF LEAD. NATIONAL LEAD COMPANY, New York, N. Y.
Filed April 26, 1939. Serial No. 418,735. PUBLISHED JUNE 20, 1939. Class 16.

370,606. HAND OPERATED TOOLS—NAMELY, AXES, CULTIVATORS, CUTTERS, LETTUCE CUTTERS, ETC. THE UNION FORK & HOE COMPANY, Columbus, Ohio.
Filed April 26, 1939. Serial No. 418,755. PUBLISHED JUNE 20, 1939. Class 23.

370,607. ANTISEPTIC EAR DROPS. THE DOHO CHEMICAL CORPORATION, New York, N. Y.
Filed April 27, 1939. Serial No. 418,771. PUBLISHED JUNE 6, 1939. Class 6.

370,608. BLANKETS, BLANKET CLOTH, AND PIECE GOODS OF COTTON, WOOL, AND/OR MIXTURES OF COTTON AND WOOL. PEPPERELL MANUFACTURING COMPANY, Boston, Mass.
Filed April 27, 1939. Serial No. 418,789. PUBLISHED JUNE 20, 1939. Class 42.

370,609. CEMENTITIOUS COMPOSITION ESPECIALLY FOR REPAIR OF DENTURES. LUCIA M. SZARLIP, Toledo, Ohio.
Filed April 27, 1939. Serial No. 418,794. PUBLISHED JUNE 20, 1939. Class 44.

370,610. TIRES COMPOSED WHOLLY OR PRINCIPALLY OF RUBBER, AND INNER TUBES THEREFOR. THE GOODYEAR TIRE & RUBBER COMPANY, Akron, Ohio.
Filed April 28, 1939. Serial No. 418,828. PUBLISHED JUNE 20, 1939. Class 35.

370,611. INDIVIDUAL CONTAINERS MADE OF GELATINE OR OTHER SUITABLE MATERIAL CONTAINING INDIVIDUALLY MEASURED DOSES OF MEDICINAL HARMONE PREPARATIONS, ETC. HOFFMANN-LA ROCHE, INC., Nutley, N. J.
Filed April 28, 1939. Serial No. 418,834. PUBLISHED JUNE 6, 1939. Class 6.

370,612. PHOTOGRAPHIC APPARATUS AND SUPPLIES—NAMELY, CAMERAS, CARRYING CASES FOR CAMERAS, ETC. KEYSTONE MFG. CO., Boston, Mass.
Filed April 28, 1939. Serial No. 418,839. PUBLISHED JUNE 20, 1939. Class 26.

370,613. RIBBON FLY CATCHER. HONEY WEB INC., New York, N. Y.
Filed April 29, 1939. Serial No. 418,875. PUBLISHED JUNE 20, 1939. Class 50.

370,614. MATTRESSES. SUPERIOR FELT & BEDDING COMPANY, Chicago, Ill.
Filed April 29, 1939. Serial No. 418,901. PUBLISHED JUNE 20, 1939. Class 32.

370,615. DENTIFRICE. AMERICAN FERMENT CO., INC., New York, N. Y.
Filed May 1, 1939. Serial No. 418,911. PUBLISHED JUNE 20, 1939. Class 6.

370,616. SLEEPING PILLOWS. LA FLEX PRODUCTS, Mishawaka, Ind.
Filed May 1, 1939. Serial No. 418,928. PUBLISHED JUNE 20, 1939. Class 32.

370,617. PURE RYE WHISKEY. ALEX J. MANDL, INC., Hagerstown, Md.
Filed May 1, 1939. Serial No. 418,930. PUBLISHED JUNE 20, 1939. Class 49.

370,618. PREPARATION USED IN THE TREATMENT OF CERTAIN GENITO-URINARY CONDITIONS. NYAL COMPANY, Detroit, Mich.
Filed May 1, 1939. Serial No. 418,935. PUBLISHED JUNE 20, 1939. Class 6.

370,619. GENERAL TONIC. NYAL COMPANY, Detroit, Mich.
Filed May 1, 1939. Serial No. 418,936. PUBLISHED JUNE 20, 1939. Class 6.

370,620. PREPARATION USED IN THE TREATMENT OF RHEUMATIC FEVER. NYAL COMPANY, Detroit, Mich.
Filed May 1, 1939. Serial No. 418,937. PUBLISHED JUNE 20, 1939. Class 6.

370,621. CIGARS. A. SENSENBRENNER SONS, Los Angeles, Calif.
Filed May 1, 1939. Serial No. 418,951. PUBLISHED JUNE 20, 1939. Class 17.

370,622. PREPARATION USED IN THE TREATMENT OF DYSMENORRHEA. FREDERICK STEARNS & COMPANY, Detroit, Mich.
Filed May 1, 1939. Serial No. 418,954. PUBLISHED JUNE 13, 1939. Class 6.

370,623. SMOKING PIPES. DAVID DUNWOODIE, Dayton, Ohio.
Filed May 2, 1939. Serial No. 418,969. PUBLISHED JUNE 20, 1939. Class 8.

370,624. CHEMICALS FOR TREATING STEEL SURFACES TO OBTAIN THEREON CORROSION RESISTANT PAINT HOLDING COATINGS. PARKER RUST PROOF COMPANY, Detroit, Mich.
Filed May 2, 1939. Serial No. 418,980. PUBLISHED JUNE 13, 1939. Class 6.

370,625. OINTMENT FOR EXTERNAL USE IN THE TREATMENT OF ACNE AND PIMPLES. BERT J. MAURICE, Washington, D. C.
Filed May 3, 1939. Serial No. 419,029. PUBLISHED JUNE 13, 1939. Class 6.

370,626. HORMONE PREPARATION RECOMMENDED FOR THE TREATMENT OF ADDISON'S DISEASE, ASTHENIA, AND OTHER CONDITIONS DUE TO HORMONE DEFICIENCY. SCHERING CORPORATION, Bloomfield, N. J.
Filed May 3, 1939. Serial No. 419,044. PUBLISHED JUNE 20, 1939. Class 6.

370,627. WRAPPERS FOR CIGARETTE PACKAGES. UNIVERSAL MATCH CORPORATION, St. Louis, Mo.
Filed May 3, 1939. Serial No. 419,051. PUBLISHED JUNE 20, 1939. Class 37.

370,628. CIGARETTES. THE AXTON-FISHER TOBACCO COMPANY, Louisville, Ky.
Filed May 4, 1939. Serial No. 419,065. PUBLISHED JUNE 20, 1939. Class 17.

370,629. CELLULOSE ETHERS. SYLVANIA INDUSTRIAL CORPORATION, New York, N. Y.
Filed May 4, 1939. Serial No. 419,092. PUBLISHED JUNE 13, 1939. Class 6.

370,630. DENTAL SUPPLIES—NAMELY, ARTIFICIAL TEETH. UNIVERSAL DENTAL COMPANY, Philadelphia, Pa.
Filed May 4, 1939. Serial No. 419,093. PUBLISHED JUNE 20, 1939. Class 44.

370,631. ASTRINGENTS, ASTRINGENT CERATES, BLEACH CREAMS, BEAUTY CREAMS, COLD CREAMS, CLEANSING CREAMS, ETC. SHULTON, INC., New York, N. Y.
Filed May 5, 1939. Serial No. 419,099. PUBLISHED JUNE 20, 1939. Class 6.

370,632. CLUTCH FACINGS. RAYBESTOS-MANHATTAN, INC., Passaic, N. J.
Filed May 5, 1939. Serial No. 419,124. PUBLISHED JUNE 20, 1939. Class 35.

370,633. LOOSE LEAF BINDERS. WILSON-JONES COMPANY, Chicago, Ill.
Filed May 5, 1939. Serial No. 419,133. PUBLISHED JUNE 20, 1939. Class 37.

370,634. NONALCOHOLIC BEVERAGES, FRUIT JUICES, AND FRUIT JUICE PRODUCTS FOR BEVERAGE PURPOSES. BIRELEY'S INC., Hollywood, Calif.
Filed May 8, 1939. Serial No. 419,174. PUBLISHED JUNE 20, 1939. Class 45.

370,635. PREPARATION USED IN THE TREATMENT OF CERTAIN GENITO-URINARY CONDITIONS. FREDERICK STEARNS & COMPANY, Detroit, Mich.
Filed May 8, 1939. Serial No. 419,199. PUBLISHED JUNE 20, 1939. Class 6.

370,636. PARASITICIDES. CALIFORNIA SPRAY-CHEMICAL CORPORATION, Wilmington, Del., and Richmond, Calif.
Filed May 9, 1939. Serial No. 419,219. PUBLISHED JUNE 20, 1939. Class 6.

370,637. SPRING UNITS FOR USE IN SEAT CUSHIONS. INSULATION DEVELOPMENT CORPORATION, Monroe, Mich.
Filed May 15, 1939. Serial No. 419,426. PUBLISHED JUNE 20, 1939. Class 32.

370,638. LOZENGE FOR SOOTHING AND COOLING THE THROAT. NYAL COMPANY, Detroit, Mich.
Filed May 15, 1939. Serial No. 419,434. PUBLISHED JUNE 20, 1939. Class 6.

370,639. TONIC. NYAL COMPANY, Detroit, Mich.
Filed May 15, 1939. Serial No. 419,435. PUBLISHED JUNE 20, 1939. Class 6.

370,640. TONIC. NYAL COMPANY, Detroit, Mich.
Filed May 15, 1939. Serial No. 419,436. PUBLISHED JUNE 20, 1939. Class 6.

370,641. EAR ACHE DROPS FOR THE RELIEF OF PAIN CAUSED BY HARDENED WAX. NYAL COMPANY, Detroit, Mich.
Filed May 15, 1939. Serial No. 419,437. PUBLISHED JUNE 20, 1939. Class 6.

370,642. EPHEDRINE NASAL JELLY. NYAL COMPANY, Detroit, Mich.
Filed May 15, 1939. Serial No. 419,438. PUBLISHED JUNE 20, 1939. Class 6.

370,643. PREPARATION USED IN THE TREATMENT OF DYSENTERY AND DIARRHEA. NYAL COMPANY, Detroit, Mich.
Filed May 15, 1939. Serial No. 419,439. PUBLISHED JUNE 20, 1939. Class 6.

[ACT OF MARCH 19, 1920, SEC. 1 (b)]

THESE REGISTRATIONS ARE NOT SUBJECT TO OPPOSITION

370,644. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) PYLE MANUFACTURING COMPANY, Dallas, Tex., assignor to Gulberson Oil Heater Company, Dallas, Tex., a corporation of Texas.
Filed July 29, 1937. Serial No. 395,769.

CLEAN FLAME

For Oil and Gas Burners.
Claims use since May 1, 1937.

370,645. (CLASS 39. CLOTHING.) BERNSTEIN & SONS SHIRT CORPORATION, New York, N. Y. Filed Jan. 8, 1938. Serial No. 401,688.

WALTON

For Boys' Blouses and Boys' and Men's Dress Shirts, Sports Shirts, and Polo Shirts.
Claims use since May, 1931.

370,646. (CLASS 22. GAMES, TOYS, AND SPORTING GOODS.) S. H. KRESS AND COMPANY, New York, N. Y. Filed Jan. 15, 1938. Serial No. 401,937.

COLOR-CRAFT

For Toy Paint Sets, Children's Water Colors, Children's Paint Books, Children's Tracing Books and Sets, Children's Modeling Sets, Children's Cut-Out Paper Figures, Toy Carpenter Sets, Toy Sewing Sets, Children's Bead Stringing Outfits, Children's Modeling Clay Sets, Toy Printing Sets, Toy Embroidery Sets, Toy Airplane Construction Sets, Board Games, Drawing Games, Toy Coloring Books, and Toy Drawing Books.
Claims use since Dec. 13, 1937.

370,647. (CLASS 8. SMOKERS' ARTICLES, NOT INCLUDING TOBACCO PRODUCTS.) DETROIT BRIAR PIPE COMPANY, Detroit, Mich. Filed Feb. 19, 1938. Serial No. 403,200.

KOOLPUF

For Tobacco Pipes.
Claims use since Aug. 9, 1937.

370,648. (CLASS 39. CLOTHING.) RASPLER & ZANKEL, New York, N. Y. Filed Apr. 13, 1938. Serial No. 405,222.

Nassau Beach

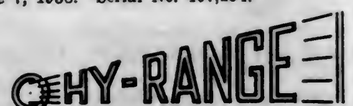
For Neckties, Pajamas, Lounging Robes, and Bath Robes.
Claims use since Apr. 15, 1937.

370,649. (CLASS 40. FANCY GOODS, FURNISHINGS, AND NOTIONS.) I. B. KLEINERT RUBBER COMPANY, New York, N. Y. Filed June 6, 1938. Serial No. 407,145.

STERLING

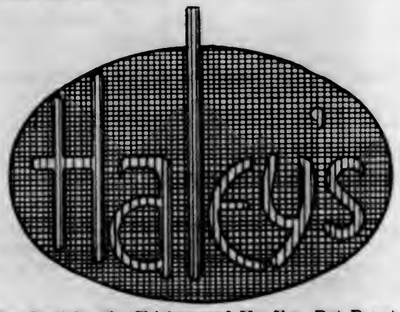
For Dress Shields.
Claims use since Aug. 1, 1925.

370,650. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) RUDOLF MÜCK, New York, N. Y. Filed June 7, 1938. Serial No. 407,194.



For Musical Instruments and Accessories—Namely, Trumpets, Cornets, Trombones, Clarinets, Saxophones, Oboes, English Horns, Base Tubas, Percussion Instruments, Mouthpieces for All Instruments, and Reeds.
Claims use since Jan. 15, 1938.

370,651. (CLASS 46. FOODS AND INGREDIENTS OF FOODS.) L. B. HALEY, doing business as Haley Canning Company, Hillsboro, Oreg. Filed June 15, 1938. Serial No. 407,497.



For Beef Broth, Chicken and Noodles, Pot Roast Beef, Chicken a la King, Dog and Cat Food, Chicken Loaf, Meat Loaf, Diced Chicken, Boned Chicken, Chicken Sandwich Spread, Chicken Liver Spread, Beef Noodle Soup, Chicken Broth, Chili Con Carne, Chicken Soup with Rice, Chicken Giblets, All of the Above Goods Being Canned.
Claims use since January, 1930.

370,652. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) AUBURN SMITH, Columbus, Ohio. Filed June 24, 1938. Serial No. 407,886.

SPRING-FALL

For Gas Burners.
Claims use since Mar. 1, 1938.

370,653. (CLASS 32. FURNITURE AND UPHOLSTERY.) CAMDEN FURNITURE COMPANY, Camden, Ark. Filed July 11, 1938. Serial No. 408,374.

BRITESHINE

For Mirrors.
Claims use since June 23, 1938.

370,654. (CLASS 39. CLOTHING.) MOORHEAD KNITTING COMPANY, Harrisburg, Pa. Filed July 11, 1938. Serial No. 408,394.

AMERICAN RIBS

For Men's Hose of All Kinds.
Claims use since July 2, 1938.

370,655. (CLASS 45. BEVERAGES, NONALCOHOLIC.) JOHN MORGAN (A CORPORATION), Brooklyn, N. Y. Filed July 23, 1938. Serial No. 408,853.

KOFEE KOLA

For Nonalcoholic Carbonated Beverages Sold as Soft Drinks.
Claims use since Apr. 27, 1938.

370,656. (CLASS 42. KNITTED, NETTED, AND TEXTILE FABRICS.) DOVER MILL COMPANY, Shelby, N. C. Filed July 25, 1938. Serial No. 408,877.

DOVER-SPUN

For Rayon and Cotton Dress Goods and Suitings Sold in the Piece.
Claims use since July 1, 1938.

370,657. (CLASS 39. CLOTHING.) GLADDY-COLLEEN, INC., New York, N. Y. Filed Aug. 12, 1938. Serial No. 409,518.

DOTTY DUKE

For Ladies' and Misses' Dresses.
Claims use since July 23, 1938.

370,658. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) BENDIX AVIATION CORPORATION, South Bend, Ind. Filed Sept. 14, 1938. Serial No. 410,532.



For Vehicle Steering Stabilizers and Parts Thereof.
Claims use since Aug. 3, 1937.

370,659. (CLASS 37. PAPER AND STATIONERY.) A. KRASNE, INC., New York, N. Y. Filed Sept. 29, 1938. Serial No. 411,094.

Riverdale

For Paper Towels and Toilet Tissue.
Claims use since July 8, 1938.

370,660. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) REPUBLIC STEEL CORPORATION, Cleveland, Ohio. Filed Oct. 8, 1938. Serial No. 411,426.

TRIPLE LOCK

For Nails.
Claims use since Apr. 27, 1938.

370,661. (CLASS 36. MUSICAL INSTRUMENTS AND SUPPLIES.) CONRAD & COMPANY, Ridgefield Park, N. J. Filed Oct. 22, 1938. Serial No. 411,942.

CONRAD

For Musical Reeds for Wind Instruments Such as Clarinets, Saxophones, Oboes, and Bassoons, of All Materials.
Claims use since Jan. 10, 1936.

370,662. (CLASS 39. CLOTHING.) AUGUSTA KNITTING CORPORATION, Utica, N. Y. Filed Nov. 7, 1938. Serial No. 412,430.

"Augusta"

For Men's, Women's, and Children's Knitted Underwear—Namely, Union Suits and Two Piece Garments—Namely, Shirts, Drawers, Vests, Pants, and Pajamas, and Men's, Women's, and Children's Knitted Outerwear—Namely, Sweaters, Bathing Suits, Sport Shirts, and Knitted Suits.
Claims use since 1901.

370,663. (CLASS 39. CLOTHING.) SCOTT PRODUCTS CO., doing business as America-Chiffon Co., Chicago, Ill. Filed Dec. 23, 1938. Serial No. 414,163.

"America-Chiffon"

For Ladies' Hosiery.
Claims use since May 23, 1938.

370,664. (CLASS 19. VEHICLES, NOT INCLUDING ENGINES.) CROSSLEY MOTORS LIMITED, Gorton, England. Filed Jan. 6, 1939. Serial No. 414,557.

CROSSLEY

For Automobiles.
Claims use since December, 1910.

370,665. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOSEPH A. KAPLAN INC., New York, N. Y. Filed Feb. 2, 1939. Serial No. 415,512.

Pearl silk

For Shower Curtains.
Claims use since July 11, 1938.

370,666. (CLASS 13. HARDWARE AND PLUMBING AND STEAM-FITTING SUPPLIES.) JOSEPH A. KAPLAN INC., New York, N. Y. Filed Feb. 2, 1939. Serial No. 415,515.

Showersilk

For Shower Curtains.
Claims use since July 11, 1938.

370,667. (CLASS 23. CUTLERY, MACHINERY, AND TOOLS, AND PARTS THEREOF.) MURCOTT & CAMPBELL, INC., New York, N. Y. Filed Feb. 25, 1939. Serial No. 416,435.

MURCOTT CAMPBELL

For Files.
Claims use since May 13, 1921.

370,668. (CLASS 39. CLOTHING.) BINGHAMTON KNITTING CO., INC., Binghamton, N. Y. Filed Mar. 13, 1939. Serial No. 416,992.



"THE DOUGLAS"

For Men's, Women's, and Boys' Sweaters, Sweater Coats, Surcoats, Polo Shirts, Jackets, and Bathing Suits.
Claims use since July 1, 1928.

370,669. (CLASS 39. CLOTHING.) ZIMRAY, INC., New York, N. Y. Filed Apr. 11, 1939. Serial No. 418,123.

Surrey Lane

For Ladies' and Misses' Sport and Travel Suits.
Claims use since Nov. 29, 1937.

370,670. (CLASS 34. HEATING, LIGHTING, AND VENTILATING APPARATUS.) FITZGIBBONS BOILER COMPANY, INC., New York, N. Y. Filed Apr. 13, 1939. Serial No. 418,189.

Directaire

For Gas, Oil, Coal, or Coke Burning Furnaces.
Claims use since Oct. 27, 1937.

370,671. (CLASS 39. CLOTHING.) THE AUERBACH BATH ROBE CO., New York, N. Y. Filed Apr. 21, 1939. Serial No. 418,508.

ARCADIA

For Men's and Boys' Bath Robes.
Claims use since October, 1923.

370,672. (CLASS 39. CLOTHING.) IRVINGTON SHIRT CORPORATION, New York, N. Y. Filed May 20, 1939. Serial No. 419,616.

Irvington "Astor"

For Men's Under and Outer Shirts, Pajamas, Underwear, and Neckties.
Claims use since 1921.

370,673. (CLASS 39. CLOTHING.) THE MANHATTAN SHIRT COMPANY, New York, N. Y. Filed June 21, 1939. Serial No. 420,772.

VERICOOL

For Men's Outer Shirts, Pajamas, and Shorts.
Claims use since 1933.

TRADE-MARK REGISTRATIONS RENEWED

125,998. **SUPERSPUN.** SILK PIECE GOODS. Registered July 22, 1919. EMPIRE SILK COMPANY, Wilmington, Del., and New York, N. Y. Renewed July 22, 1939, to A. D. Juilliard & Co., Inc., New York, N. Y., a corporation of Delaware, assignee.

126,050. **IOCO.** WATCHES AND WATCH-MOVEMENTS. Registered July 22, 1919. I. OLLENDORFF COMPANY. Renewed July 22, 1939, to Ollendorff Watch Co., Inc., New York, N. Y., a corporation of New York, successor.

126,052. **FAIR SEX.** CERTAIN NAMED LADIES' AND CHILDREN'S UNDERWEAR AND APRONS. Registered July 22, 1919. OSHKOSH MUSLIN UNDERWEAR CO. Renewed July 22, 1939, to C. A. Neuburger Company, Oshkosh, Wis., a corporation of Wisconsin, by change of name.

126,138. **CASTOX.** CAST-IRON-WELDING METAL. Registered July 29, 1919. CENTRAL STEEL & WIRE COMPANY, Chicago, Ill., a corporation of Illinois. Renewed July 29, 1939.

126,160. **GATES OR-HOUN-O.** CANDY COUGH-DROPS. Registered July 29, 1919. WILLIAM GATES, Norfolk, Va. Renewed July 29, 1939.

126,172. **CEJ.** DRILLS, DIES, SCREW-THREAD-CUTTING TOOLS, AND CERTAIN NAMED MACHINE-TOOLS AND PARTS THEREOF. Registered July 29, 1919. CARL EDVARD JOHANSSON, Eskilstuna, Sweden. Renewed July 29, 1939.

126,276. **ABBODIN.** MEDICINES FOR CONSTIPATION, BILIOUSNESS, INDIGESTION, AND BACKACHE. Registered August 19, 1919. GEORGE W. FILLAUER, Chattanooga, Tenn. Renewed August 19, 1939.

126,349. **SMITH'S.** DENTAL ENAMEL. Registered August 19, 1919. LEE S. SMITH & SON MANUFACTURING COMPANY, Pittsburgh, Pa., a corporation of Pennsylvania. Renewed August 19, 1939.

126,781. **ROLO.** LAWN-MOWERS. Registered September 30, 1919. SIMMONS HARDWARE COMPANY, St. Louis, Mo., a corporation of Missouri. Renewed September 30, 1939.

127,099. **NORSEMAN.** CANNED SARDINES. Registered October 21, 1919. NIELSEN & KITTLE CANNING CO. LTD., Terminal, Calif. Renewed October 21, 1939, to Van Camp Sea Food Co. Inc., Terminal Island, Calif., a corporation of California, successor.

127,375. **RUST! NEVER!!** HOOKS AND EYES, SNAP-FASTENERS, SAFETY-PINS, AND TOILET-PINS. Registered November 11, 1919. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 11, 1939.

127,376. **EITHER SIDE THE RIGHT SIDE.** SNAP-FASTENERS. Registered November 11, 1919. THE DE LONG HOOK AND EYE COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed November 11, 1939.

127,416. **ARMERVENOL.** A MEDICINAL COMPOUND FOR INTERNAL USE IN THE TREATMENT OF INFECTIOUS DISEASES. Registered November 11, 1919. HILLE LABORATORIES, Chicago, Ill., a corporation of Illinois. Renewed November 11, 1939.

127,417. **MERVENOL.** A MEDICINAL COMPOUND FOR INTERNAL USE IN THE TREATMENT OF INFECTIOUS DISEASES. Registered November 11, 1919. HILLE LABORATORIES, Chicago, Ill., a corporation of Illinois. Renewed November 11, 1939.

127,505. **UNIVERSAL.** A LIQUID CLEANER FOR KID GLOVES AND SHOES. Registered November 11, 1919. THE SHOTWELL COMPANY. Renewed November 11, 1939, to Oscar Epstein, doing business as Universal Shoe Dressing Co., Los Angeles, Calif., successor.

127,619. **DYKELAND.** CONDENSED MILK. Registered November 18, 1919. HOLLAND FOOD CORPORATION, New York, N. Y., a corporation of New York. Renewed November 18, 1939.

128,263. **EVERITE.** FRESH ORANGES. Registered December 30, 1919. SANTIAGO ORANGE GROWERS ASSOCIATION, Orange, Calif., a corporation of California. Renewed December 30, 1939.

128,407. **CALYX.** CORE-DRILLS. Registered January 6, 1920. INGERSOLL-RAND COMPANY, Jersey City, N. J., and New York, N. Y. Renewed January 6, 1940, to Ingersoll-Rand Company, New York, N. Y., a corporation of New Jersey.

128,602. **WHITE STAR.** WHITE ARSENIC. Registered January 13, 1920. THE AMERICAN METAL COMPANY, LIMITED, New York, N. Y., a corporation of New York. Renewed January 13, 1940.

128,795. **MORRELL'S PRIDE.** BREAKFAST-BACON. Registered January 13, 1920. JOHN MORRELL & CO., Ottumwa, Iowa, a corporation of Maine. Renewed January 13, 1940.

128,842. **EPICURE.** FRESH ORANGES. Registered January 13, 1920. SANTIAGO ORANGE GROWERS ASSOCIATION, Orange, Calif., a corporation of California. Renewed January 13, 1940.

128,947. **PINE-X-DISNFT.** DISINFECTANT. Registered January 20, 1920. JOSEPH WARREN BULLEN, Folcroft, Pa. Renewed January 20, 1940.

128,948. **CRE-BOL-YOU.** DISINFECTANT. Registered January 20, 1920. JOSEPH WARREN BULLEN, Folcroft, Pa. Renewed January 20, 1940.

129,047. **ELECTRIC.** REMEDY FOR NEURALGIA, SICK AND BILIOUS HEADACHE. Registered January 20, 1930. ADELAIDE R. PERRY. Renewed January 20, 1940, to Sue A. Perry, Buffalo, N. Y., assignee.

129,118. **APEX.** MEN'S, WOMEN'S, AND CHILDREN'S HOSIERY MADE OF SILK AND MIXTURE OF SILK AND LISLE. Registered January 27, 1920. APEX HOSIERY COMPANY, Philadelphia, Pa., a corporation of Pennsylvania. Renewed January 27, 1940.

129,163. **PICKWICK.** A CEREAL NON-INTOXICATING MALT BEVERAGE. Registered January 27, 1920. HARVARD COMPANY, Lowell, Mass. Renewed January 27, 1940, to Haffenreffer & Co., Inc., Boston, Mass., a corporation of Massachusetts, assignee by mesne assignments.

129,166. **HOLLANDIA.** CONDENSED MILK. Registered January 27, 1920. HOLLAND FOOD CORPORATION, New York, N. Y., a corporation of New York. Renewed January 27, 1940.

LABELS

REGISTERED AUGUST 29, 1939

53,428.—*Title:* DUTCH TREAT. For an Orange Flavored Carbonated Beverage. A-TREAT BOTTLING COMPANY, Allentown, Pa. Published May 19, 1939.

53,429.—*Title:* MOTORIST PICNIC KIT. For a Picnic Assortment Consisting of Deviled Tongue, Deviled Ham, a Mock Chicken Spread, a Meat Food Product Used as a Buffet Spread, a Liver Spread, an All-Purpose Meat, Frankfurters, and a Cream Cheese Spread with Pimiento. ARMOUR AND COMPANY, Chicago, Ill. Published June 19, 1939.

53,430.—*Title:* BELLAIRE. For Cartons. BIRD & SON, INC., East Walpole, Mass. Published July 21, 1939.

53,431.—*Title:* THE CLINTON SHOE. For Cartons. BIRD & SON, INC., East Walpole, Mass. Published July 24, 1939.

53,432.—*Title:* DEXIN. For Dietary Supplement for Children and Adults. BURROUGHS WELLCOME & CO. (U. S. A.) INC., New York, N. Y. Published April 15, 1939.

53,433.—*Title:* BOTANEE BOX. For Material for Making Artificial Flowers. WENDELL J. CALEY, doing business as W. J. Caley & Co., Philadelphia, Pa. Published September 3, 1937.

53,434.—*Title:* JOSEPH SALON SHOES. For Shoes. A. C. CLAYTON PRINTING COMPANY, St. Louis, Mo. Published July 5, 1939.

53,435.—*Title:* FINE FOOTWEAR. For Footwear. A. C. CLAYTON PRINTING COMPANY, St. Louis, Mo. Published July 18, 1939.

53,436.—*Title:* BULLOCK'S SALON FOOTWEAR. For Footwear. A. C. CLAYTON PRINTING COMPANY, St. Louis, Mo. Published July 24, 1939.

53,437.—*Title:* FOG-PRUF GLASS CLEANER. For a Glass Cleaner. HARRY B. COWAN, Los Angeles, Calif. Published July 21, 1939.

53,438.—*Title:* CROWN COPPERIZED FRUIT WRAP. For Fruit Wraps. CROWN-ZELLERBACH CORPORATION, doing business as Crown Willamette Paper Company, San Francisco, Calif. Published June 28, 1939.

53,439.—*Title:* DOLPHIN'S NATURAL BARKS, THE WONDERFUL DROPS FOR THE EYE. For Drops for the Eye. BYRON J. DOLPHIN, Seattle, Wash. Published January 10, 1936.

53,440.—*Title:* STIX-QUIK. For Cement Patch Kits. WELDON DRAPER, doing business as The Tricosal Company, Los Angeles, Calif. Published July 18, 1939.

53,441.—*Title:* EHLERS WHITE GIANT. For Rice. ALBERT EHLERS, INC., Brooklyn, N. Y. Published June 1, 1939.

53,442.—*Title:* LADY BETTY. For Golden Bantam Succotash. JOHN ENGLISH, doing business as United Wholesale Grocery, Schenectady, N. Y. Published May 15, 1939.

53,443.—*Title:* GANDY DOUGH MASTER. For Folding Frame Baker's Canvasses and Rolling-Pin Covers. EBENHARD S. GANDRUD, doing business as E. S. Gandrud Co., Owatonna, Minn. Published April 26, 1939.

53,444.—*Title:* TREASURE. For California Port Wine. GARCIA WINE CORPORATION, Long Island City, N. Y. Published June 26, 1939.

53,445.—*Title:* LOVELEE HAIR SNOOD. For Hair Nets. THE GLEMBY COMPANY, INC., New York, N. Y. Published August 1, 1939.

53,446.—*Title:* JU-C-ORANGE. For a Carbonated Beverage. KRIM BEVERAGE COMPANY, Lebanon, Pa. Published June 3, 1939.

53,447.—*Title:* FRIZZED FRESH. For Fruits and Vegetables. FRANK C. LOCKE, Oberlin, Ohio. Published January 22, 1938.

53,448.—*Title:* SCHMIDT'S BLUE RIBBON PANTRY PACKAGE SLICED WHITE BREAD OPEN IN MIDDLE—LIKE A BOOK! For Bread. THE W. E. LONG CO., Chicago, Ill. Published June 28, 1939.

53,449.—*Title:* THE 3 MUSKETEERS. For Candy. MARS INCORPORATED, Chicago, Ill. Published July 18, 1939.

53,450.—*Title:* BRIAR BOWL. For Tobacco. MARTA CIGAR COMPANY, New York, N. Y. Published July 25, 1939.

53,451.—*Title:* ORCHIDS. For Candy. PAGE & SHAW INC., Cambridge, Mass. Published July 25, 1939.

53,452.—*Title:* PUEBLO. For Men's Ties. THE PARIS NECKWARE CO. INC., New York, N. Y. Published July 1, 1939.

53,453.—*Title:* FRESH NO. ONE DEODORANT CREAM. For Deodorant Cream. THE PHARMA-CRAFT CORPORATION, Louisville, Ky. Published July 8, 1939.

53,454.—*Title:* FRESH NO. ONE. For Deodorant Cream. THE PHARMA-CRAFT CORPORATION, Louisville, Ky. Published July 9, 1939.

53,455.—*Title:* CENTER SPOT. For Writing Tablets. PAUL E. TROUCHE, Charleston, S. C. Published July 20, 1939.

53,456.—*Title:* U. T.-D. HIGH POWER DRAIN PIPE OPENER. For a Drain Pipe Cleaner or Opener. UNIVERSAL TOOL-DRIVE TOOL COMPANY, Los Angeles, Calif. Published June 21, 1939.

53,457.—*Title:* SLICED WHEAT BREAD. For Wheat Bread. WAXIDE PAPER COMPANY, Kansas City, Mo. Published July 24, 1939.

53,458.—*Title:* ROYAL BREAD SLICED. For Bread. WAXIDE PAPER COMPANY, Kansas City, Mo. Published August 3, 1939.

53,459.—*Title:* HOLLAND LINEN. For Stationery, Writing Paper, and Writing Tablets. WAYNE PAPER BOX & PRINTING CORP., Fort Wayne, Ind. Published February 21, 1939.

53,460.—*Title:* ROYAL SCOTTIE. For Stationery, Writing Paper, and Writing Tablets. WAYNE PAPER BOX & PRINTING CORP., Fort Wayne, Ind. Published February 21, 1939.

PRINTS

REGISTERED AUGUST 29, 1939

17,542.—*Title:* BERG METHOD OF ENTOMBMENT. For Burial Vaults. CHRISTY L. BERG, St. Louis, Mo. Published July 3, 1939.

17,543.—*Title:* CANDY IS DELICIOUS FOOD. For Candy. E. J. BRACH & SONS, Chicago, Ill. Published December 31, 1938.

17,544.—*Title:* LIMPIE SUS ARMAS REGULARMENTE. For Gun Cleaning Products. FRANK A. HOPPE, INC., Philadelphia, Pa. Published July 18, 1939.

17,545.—*Title:* DRINK TO ME ONLY WITH. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published July 17, 1939.

17,546.—*Title:* A HIT! For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published July 17, 1939.

17,547.—*Title:* A TRUE LAGER BREWED FOR YOU. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published July 17, 1939.

17,548.—*Title:* POPULAR SINCE 1876. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published June 8, 1939.

17,549.—*Title:* SELDOM EQUALED. NEVER EXCELLED. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published May 20, 1939.

17,550.—*Title:* IN THE GOOD OLD SUMMERTIME. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published July 17, 1939.

17,551.—*Title:* LONG LONG AGO. LONG AGO. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published May 20, 1939.

17,552.—*Title:* HYDE PARK 5% TRUE LAGER BEER. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published July 17, 1939.

17,553.—*Title:* HYDE PARK TRUE LAGER BEER. For Lager Beer. HYDE PARK BREWERIES ASSOCIATION, INC., St. Louis, Mo. Published May 20, 1939.

17,554.—*Title:* WE SELL FROZEN CONFECTIONS ON A STICK. For Frozen Confections on a Stick. JOE LOWE CORPORATION, New York, N. Y. Published March 18, 1938.

17,555.—*Title:* PARKE-DAVIS MEDICATED THROAT DISCS. For Medicated Throat Discs. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 30, 1939.

17,556.—*Title:* PARKE-DAVIS COD LIVER OIL. For Cod Liver Oil. PARKE, DAVIS & COMPANY, Detroit, Mich. Published June 30, 1939.

17,557.—*Title:* THE WORLD'S SOFTEST SHOE. For Shoes. BEN WARSHAUER, Stockton, Calif. Published July 26, 1939.

REISSUES

AUGUST 29, 1939

21,182

HIGHWAY GUARDRAIL CONSTRUCTION

William R. Baxter, Garfield Heights, Ohio, assignor to The Empire Plow Company, Cleveland, Ohio, a corporation of Ohio

Original No. 2,078,704, dated April 27, 1937, Serial No. 651,971, January 16, 1933. Application for reissue August 24, 1938, Serial No. 226,598

40 Claims. (Cl. 256—13.1)



1. A guard rail construction, comprising a series of resilient closed ring members, supporting means therefor, and a rail extending from closed ring member to closed ring member movable independently thereof.

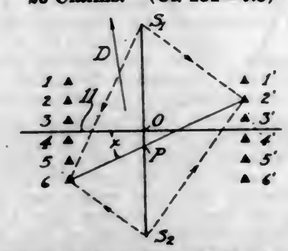
21,183

REFLECTION SHOOTING PROCEDURE FOR THE ACCURATE DETERMINATION OF DIP

Ludwig W. Blau, Houston, Tex., assignor to Standard Oil Development Company, a corporation of Delaware

Original No. 2,058,764, dated October 27, 1936, Serial No. 29,183, June 29, 1935. Application for reissue October 18, 1938, Serial No. 235,639

23 Claims. (Cl. 181—0.5)



1. In seismic prospecting, the steps which comprise creating seismic waves successively at two selected points spaced from each other, and receiving the waves from each shot point at a plurality of receivers disposed in substantial alignment on a line spaced from and substantially parallel to a line connecting the shot points.

21,184

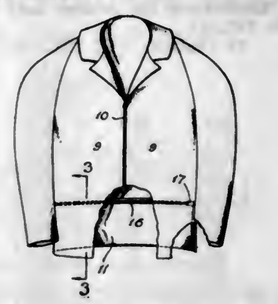
GARMENT

Albert R. Fitch, Summit, N. J., assignor to Adirondack Sportswear, Inc., Amsterdam, N. Y., a corporation of New York

Original No. 2,142,814, dated January 3, 1939, Serial No. 185,115, January 15, 1938. Application for reissue May 23, 1939, Serial No. 275,251

3 Claims. (Cl. 2—93)

3. A foldable garment comprising a plurality of vertically extending panels, a flap formed within said garment at the lower end of a predetermined one of said panels and substantially co-extensive in width therewith, certain marginal edges of said flap being secured to said predetermined panel to form a pocket provided with an opening substantially equal in width to the width of said predetermined panel, said garment being foldable to a position to be enclosed



within said pocket by insertion through said opening, and means for closing said opening.

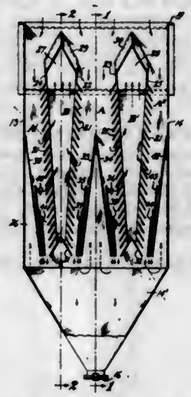
21,185

SEPARATING SYSTEM AND METHOD

John Edwin Fulweiler, Moylan, Pa.

Original No. 2,076,815, dated April 13, 1937, Serial No. 710,056, February 7, 1934. Application for reissue July 21, 1938, Serial No. 220,599

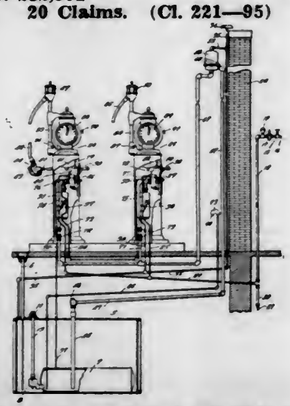
30 Claims. (Cl. 183—75)



15. Apparatus for separating solids from gases carrying the same, comprising a casing having an inlet and an outlet, means causing the gases introduced into the casing to flow therethrough, a hopper at the bottom of the casing in which the solids separated from the carrying gas are collected, a plurality of tiers of substantially straight, spaced baffle plates disposed in the casing so as to form a straight inlet flow path from the inlet to the hopper in a vertically downward direction, said baffle plates being arranged and disposed so that the total flow area between said plates is considerably greater than the flow area of the flow path inlet and so that the gases in flowing from the inlet path and between the baffles to the outlet make an abrupt change in their direction of flow from a downward to an upward direction.

21,186
AIR RELEASE MECHANISM FOR DISPENSING APPARATUS

Clement P. Griffith, Fort Wayne, Ind., assignor to S. F. Bowser & Company, Incorporated, Fort Wayne, Ind., a corporation of Indiana
Original No. 2,044,727, dated June 16, 1936, Serial No. 580,143, December 10, 1931, which is a continuation of Serial No. 302,195, August 27, 1928. Application for reissue July 1, 1939, Serial No. 282,501
20 Claims. (Cl. 221—95)



1. A dispensing system for liquids comprising a gasoline line and a casing having an inlet and an outlet connected to the gasoline line, with the top of the casing vented to the atmosphere, a float in said casing, a pilot valve, a main valve, said valves controlling the flow of liquid through said outlet, and connections between said float and said valves to cause the pilot valve to open prior to the opening of the main valve.

21,187
DENTAL CLEANING SPRAY

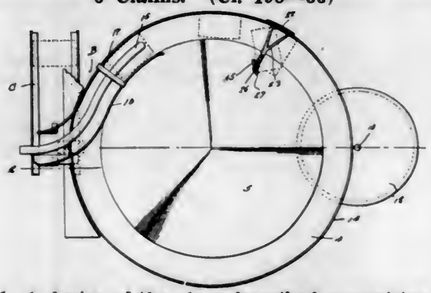
William J. Hooper, Elsah, Ill., assignor of one-half to Harold A. Hooper, Chicago, Ill.
Original No. 2,094,888, dated October 5, 1937, Serial No. 60,945, January 27, 1936. Application for reissue October 27, 1937, Serial No. 171,392
1 Claim. (Cl. 128—229)



A dental cleaning spray comprising a tubular handle portion, a fluid discharge nozzle, a tubular body member interposed between said handle and said nozzle, a valve structure mounted in said body member, said valve structure comprising a tubular valve chamber provided with a valve seat and inner and outer screw-threaded portions whereby said tubular valve chamber may be attached by said outer screw-threaded portion to said tubular body member and a valve member adapted to be threaded into said tubular valve chamber, said valve member being provided with a projecting portion adapted to operate said valve member, means normally retaining said valve member in closed position against said valve seat, means for opening said valve member, said means comprising a push-button, a cam member associated with said push-button and adapted to longitudinally move said projecting portion on said valve member for displacing said valve member from its seat, thereby permitting passage of fluid through said dental cleaning spray, and means for restoring said valve member and push-button to normal position.

21,188
CENTRIFUGAL CAN FEEDING MEANS

Eddie P. La Bounty, Hoopeston, Ill.
Original No. 2,032,619, dated March 3, 1936, Serial No. 34,449, August 2, 1935. Application for reissue August 30, 1937, Serial No. 161,660
6 Claims. (Cl. 198—33)

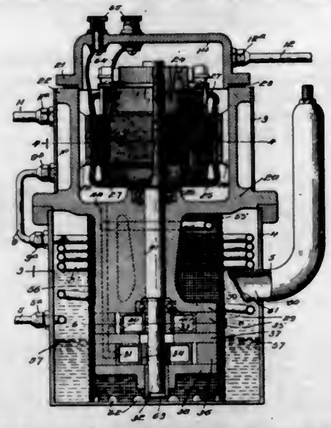


1. A device of the class described comprising a rotary disc, a convex disc of smaller diameter than the first-mentioned disc and located above the same, means for rotating the two discs, said means rotating the first-mentioned disc at a greater speed than the convex disc, a guide rail located above the periphery of the first-mentioned disc, tripping means for turning any cans that have their ends strike the guide rail, a chute for receiving the cans from the first-mentioned disc, said chute having a depending part, a gravity chute receiving the cans from the first-mentioned chute and means for causing the cans to turn and drop sidewise upon the gravity chute.

21,189
REFRIGERATING APPARATUS

Osborne I. Price, Frederick, Md., assignor to Westinghouse Electric & Manufacturing Company, a corporation of Pennsylvania
Original No. 1,807,871, dated June 2, 1931, Serial No. 24,599, April 20, 1925. Renewed October 28, 1930. Application for reissue June 15, 1939, Serial No. 279,380
12 Claims. (Cl. 62—115)

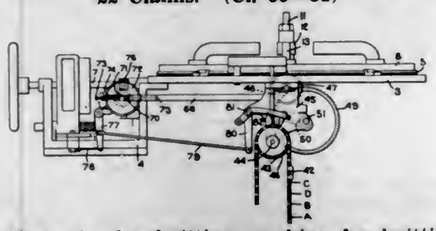
1. A refrigeration apparatus comprising in combination a compressing mechanism, a driving mechanism, a housing enclosing said driving mechanism and having a depending portion thereon supporting said compressing mechanism, said driving mechanism comprising a motor, an extended shaft on said motor journaled in said depending portion and connected with said compressing mechanism, a condensing chamber surrounding said depending portion, means for cooling said condensing chamber, a port in said depending portion connecting said housing with said compressing mechanism, port means connecting said compressing mechanism with said condensing chamber, means permitting gaseous



refrigerant to flow through said driving mechanism in said housing, whereby said compressing mechanism operates to force said refrigerant, under pressure, into said condensing chamber for liquefying said refrigerant, and means for utilizing said refrigerant for absorbing heat..

21,190
CIRCULAR KNITTING MACHINE FOR DROP-STITCH WORK

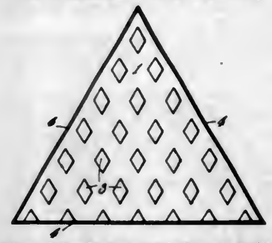
John H. Rice, Manchester, N. H., assignor to Leighton Machine Company, Manchester, N. H., a corporation of New Hampshire
Original No. 2,132,046, dated October 4, 1938, Serial No. 160,839, August 25, 1937. Application for reissue June 8, 1939, Serial No. 278,088
22 Claims. (Cl. 66—31)



22. A circular knitting machine for knitting drop-stitch work comprising a set of regular and a set of special needles, a circular needle bed having grooves therein to receive either regular or special needles, means for rendering the special needles inactive, a circular cam plate rotatable relatively to the needle bed, cams on the cam plate, means for automatically relatively positioning the cams on the cam plate, first, to cause all the active needles to knit, second, when the special needles are rendered inactive to cause the regular needles alone to knit for one course and the special needles to become temporarily active and to knit alone for a succeeding course before the special needles cast off their stitches, third, to cause the special needles rendered inactive to cast off their stitches and cease knitting, and automatically controlled mechanism acting to render the inactive special needles active.

21,191
ROAD CONSTRUCTION

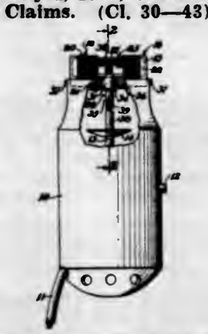
Francis Gordon Small, Middlesex, England, assignor to Iron Paving Limited, London, England, a corporation of Great Britain
Original No. 2,018,581, dated October 22, 1935, Serial No. 553,671, July 28, 1931. Application for reissue October 18, 1937, Serial No. 169,660. In Great Britain September 26, 1930
18 Claims. (Cl. 94—11)



1. A paving block comprising a triangular hollow metal body having a wearing surface and marginal side walls depending from said surface, each of these walls sloping outwardly downwardly, and said body being provided at the apices of the triangle with feet depending below the lower edges of said walls and which are adapted to penetrate into a sealing plastic, said sloping side walls being adapted to cooperate with similar opposed walls of similar adjacent blocks to form dovetail keyways for receiving a yieldable plastic filler.

21,192
CLIPPING DEVICE

Irving Stein, Monticello, N. Y.
Original No. 2,049,574, dated August 4, 1936, Serial No. 23,343, May 25, 1935. Application for reissue February 4, 1938, Serial No. 188,749
9 Claims. (Cl. 30—43)



1. A clipping device comprising a body member having a longitudinal bore, an outer flat surface parallel to said bore and a plurality of transverse slots communicating with said bore and terminating in said flat surface, said bore being eccentric to the outer surface of said body member and closely adjacent to said flat surface whereby the thick portion of said body member forms an adequate support for the webs between said slots forming shearing blades, and a cylindrical shearing member within said bore having a plurality of diagonally transverse slots therein, the webs between said last slots forming shearing blades adapted to cooperate with said first blades, and means to longitudinally reciprocate said shearing member.

PATENTS

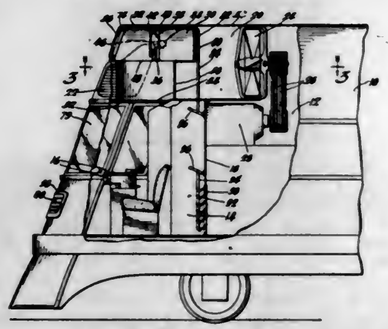
GRANTED AUGUST 29, 1939

2,170,791

LOCOMOTIVE FRONT END ARRANGEMENT

Martin P. Blomberg, Hinsdale, Ill., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 5, 1936, Serial No. 103,990
2 Claims. (Cl. 105—456)



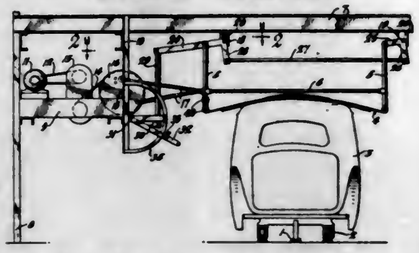
1. In combination with a locomotive body having an opening formed in one of its walls, a headlight housing having an opening formed in the front face thereof, a lens for covering said opening, said lens being adapted to be swung inwardly into said housing, said housing having a second opening formed in its bottom wall, and a tubular member forming a passageway between the opening in said body and the opening in the bottom wall of said housing whereby access may be had to the exterior of the lens from the inside of the locomotive body.

2,170,792

POLISHING MACHINE

Arthur O. Brooke, Compton, Calif., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application February 18, 1938, Serial No. 191,190
4 Claims. (Cl. 51—62)



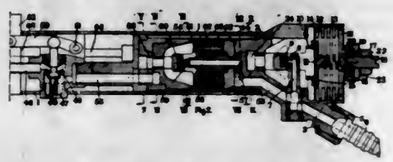
4. Surface finishing mechanism including a flexible work engaging strip, adapted to be suspended from its opposite ends only, a pair of swinging strip suspension members spaced apart and connected with the opposite ends of said strip for the reciprocation thereof across the work surface, and adjustable mounting means for said suspension members whereby they may be moved in a direction normal to the work surface.

2,170,793

CUTTING TORCH OR BLOWPIPE

Charles Francis Carroll, London, England

Application April 23, 1936, Serial No. 76,060
In Great Britain April 24, 1935
9 Claims. (Cl. 158—27.4)



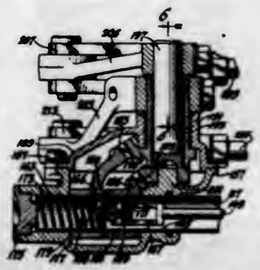
1. In a cutting torch or blowpipe, a portion adapted to be gripped by the hand of the operator, a burner nozzle connected with said portion, separate passages within said portion through which a combustible gas and oxygen are delivered to said nozzle for intermixing to produce the heating flame, automatic pressure control valves arranged in said passages and adapted to maintain the pressure at which said gas and said oxygen are supplied to the nozzle substantially constant, and means associated with the said passages intermediate said pressure regulating valves and said nozzle for controlling the rate of flow of the gas and oxygen supplied to the nozzle.

2,170,794

REMOTE CONTROL FOR TRANSMISSIONS

Charles A. Chayne, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 14, 1938, Serial No. 195,708
6 Claims. (Cl. 74—484)



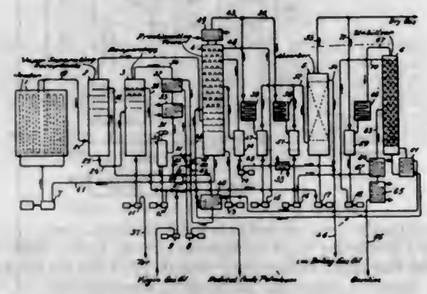
1. In combination with a vehicle change speed mechanism and a steering column, a tubular shaft journaled for rotation adjacent said column, levers adjacent said change speed mechanism movable to effect selected driving ratios, manually operable means to rock said tubular shaft, a plurality of first gears rotatably mounted on said tubular shaft, cooperating secondary gears adapted to be rotated by said first named gears, mechanism whereby rotation of said secondary gears moves said levers, means within said tubular shaft and including a part movable longitudinally relatively to said tubular shaft to lock a selected one of said first named gears to the hollow shaft and means adjacent said manually operated means to move said movable gear locking means.

2,170,795

MANUFACTURE OF GASOLINE AND FUEL OIL

John Joseph Downey, Los Angeles, and William Wallace Murray, Downey, Calif., assignors to Sinclair Refining Company, New York, N. Y., a corporation of Maine

Application June 15, 1937, Serial No. 148,272
8 Claims. (Cl. 196—48)



1. In the manufacture of gasoline and fuel oil from asphaltic petroleum stocks containing a high boiling wax bearing fraction of the type generally occurring in California, the improvement which comprises heating a stream of distillate oil to a high cracking temperature under superatmospheric pressure and controlling the temperature, temperature gradient, pressure and time during said heating to prevent substantial formation of carbon therein, reducing the pressure on the hot oil products of said heating and bringing them into direct heat exchanging relationship with the asphaltic stock containing the high boiling wax bearing fraction in a vapor separating receptacle without prior heating of said asphaltic stock to a temperature at which substantial decomposition occurs, taking off from said receptacle a residual stock mixture including the high boiling wax bearing fraction and a vapor mixture including gas oil and gasoline; vaporizing the high boiling wax bearing fraction from this residual stock mixture without substantial decomposition by the contained heat of the oil in an evaporator maintained under a pressure lower than that maintained in said receptacle, and condensing this high boiling wax bearing fraction and supplying it to said heating.

2,170,796

SHEET PILING

Jonathan Roy Freeze, Middletown, Ohio, assignor to The American Rolling Mill Company, Middletown, Ohio, a corporation of Ohio

Application March 14, 1938, Serial No. 195,829
9 Claims. (Cl. 61—58)



9. Sheet piling comprising a number of panels of corrugated sheet metal, the lateral edge bends of each said panels being provided with reversely bent portions, said reversely bent portions being spaced from said lateral edge bends a distance sufficient to accommodate the corresponding portions of an adjacent panel, and said reversely bent portions being spaced from said lateral edge bends at the bend a distance greater than that necessary to accommodate the corresponding portions of an adjacent panel, whereby areas of roughly wedged shape in cross section are provided when said adjacent panels are interlocked.

2,170,797

METHOD OF MAKING AXLE HOUSINGS

Rexford C. Glover, Clio, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application March 11, 1938, Serial No. 195,290
2 Claims. (Cl. 29—153.1)



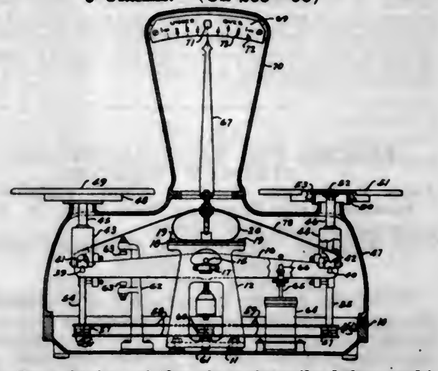
1. The method of forming a rear axle housing which consists in shaping and drawing a flat metal blank to provide pairs of trough-shaped end portions, and a downwardly drawn mid-section between said end portions, forming a pair of channels between and joining said trough-shaped end portions; forming a slot in said mid-section between and extending longitudinally of said channels; forming four flanges substantially parallel with one another and substantially at right angles to and extending along the sides of said channels; bending said housing member along a central axis extending longitudinally thereof to fold the end troughs together and to bring the edges of the sides thereof into engagement with one another; and welding said side edges together along a seam extending longitudinally of the axle housing.

2,170,798

WEIGHING SCALE

Samuel N. Hurt, Toledo, Ohio, assignor to Toledo Scale Manufacturing Company, Toledo, Ohio, a corporation of New Jersey

Application January 21, 1938, Serial No. 186,091
6 Claims. (Cl. 265—58)



1. In a device of the class described, in combination, a base, a U shaped frame having upper open arms and positioned upon said base, V bearings mounted near the upper ends of said frame, an even-armed lever pivotally mounted upon said bearings for oscillatory movement, a counterpoise platter and a load receiving platter pivotally mounted upon opposite ends of said even-armed lever, a plate connecting the upper open arms of said U frame, a V bearing mounted upon said plate, a relatively movable indicator and chart, the lower end of said indicator having a knife edge and seated with said knife edge in said bearing, a vertically positioned, tensioned load resistance loop of thin flexible resilient metal clamped to said indicator and said plate, means for adjusting the tension of said resistance member comprising nuts cooperating with said indicator and said tension member and

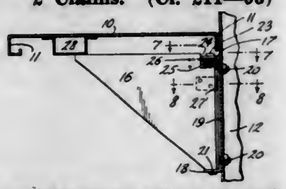
adjustable means for connecting said indicator to the opposite ends of said lever, said adjustable means comprising pivoted arcuate faces, a metallic ribbon and screws for adjusting and locking said arcuate faces.

2,170,799

DROP SHELF AND BRACKET

James R. Jones, Jamestown, N. Y., assignor to Art Metal Construction Company, Jamestown, N. Y.

Application April 4, 1938, Serial No. 199,828
2 Claims. (Cl. 211—93)



1. The combination with a hinged shelf, of a supporting bracket therefor provided at its inner end with upper and lower pivot studs, upper and lower stationary hinge lugs having holes in which said studs are movable axially and are also rotatable to allow the bracket to swing to and from an operative supporting position, one of said studs being sufficiently longer than the other to allow enough axial movement thereof in its hinge lug for disengagement of the other stud from its hinge lug, a spring which is coiled about said first mentioned stud and bears at opposite ends against said bracket and hinge lug, said spring yieldingly opposing such axial stud-disengaging movement of the bracket and also acting on said bracket to swing it to said operative position, and means comprising a part on said bracket and a fixed stop arranged to be engaged thereby to prevent the bracket from being swung by said spring beyond the shelf-supporting position.

2,170,800

PROCESS FOR MAKING COMPOSITE TITANIUM PIGMENTS

Louis E. Barton, Windsor, Conn., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

No Drawing. Application August 11, 1938, Serial No. 224,299
12 Claims. (Cl. 134—58)

1. Process for the preparation of a composite titanium dioxide-calcium carbonate pigment which comprises treating a previously-prepared titanium dioxide-calcium sulfate composite pigment with an aqueous colution of an inorganic carbonate the electro-positive ion of which forms with the sulfate ion a water-soluble sulfate until the calcium sulfate of the composite pigment has been transformed into calcium carbonate and separating the composite titanium dioxide-calcium carbonate pigment so produced from the sulfate mother liquor.

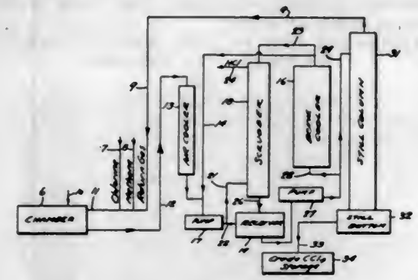
2,170,801

CHLORINATION

Harry Bender, Antioch, Calif., assignor, by mesne assignments, to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

Application April 15, 1935, Serial No. 16,285
11 Claims. (Cl. 260—662)

1. A process for substituting chlorine for hydrogen in methane without formation of free carbon comprising passing a mixture including gaseous methane and chlorine through an elongated channel between two graphite surfaces sub-



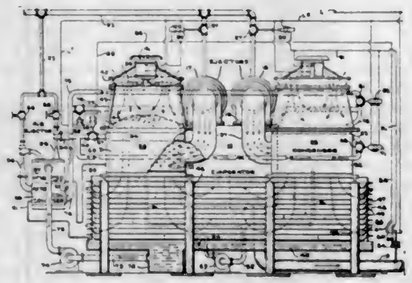
stantially free of metals and maintaining one of said surfaces at a temperature of about 360° C., said surfaces being only about $\frac{1}{32}$ of an inch apart to prevent ignition of said hydrocarbon.

2,170,802

VACUUM-PRODUCING APPARATUS

Robert A. Bowman, Prospect Park, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania

Application July 23, 1936, Serial No. 92,089
7 Claims. (Cl. 62—2)



3. In refrigerating apparatus, the combination of evaporator means, a plurality of ejectors for withdrawing vapor from said evaporator means, a condenser element for each ejector, means for circulating air over each condenser element, means for supplying a film of water to the air cooled surfaces of each condenser element, means for successively rendering said ejectors operative in response to successive increases in refrigerating load, and means for initiating and terminating circulation of air and water over each condenser element simultaneously with initiation and termination, respectively, of the associated ejector.

2,170,803

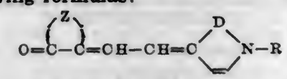
PHOTOGRAPHIC SENSITIZING DYES AND THEIR PREPARATION

Leslie G. S. Brooker, Rochester, N. Y., assignor, by mesne assignments, to Eastman Kodak Company, Jersey City, N. J., a corporation of New Jersey

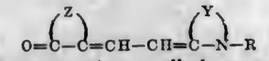
No Drawing. Application August 11, 1934, Serial No. 739,502
12 Claims. (Cl. 260—240)

1. A merocyanine dye characterized by a

formula selected from the group consisting of the following formulas:



and



wherein R represents an alkyl group, D represents a phenylene group, Y represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of five-membered and six-membered heterocyclic nuclei and Z represents the non-metallic atoms necessary to complete a rhodanine nucleus.

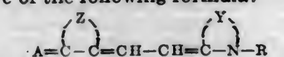
2,170,804

MEROCYANINE DYES FROM BENZOXAZOLES

Leslie G. S. Brooker, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application April 24, 1937, Serial No. 138,815
17 Claims. (Cl. 260—240)

1. A dye of the following formula:



wherein A represents an atom selected from the group consisting of oxygen and sulfur, R represents an alkyl group, Y represents the non-metallic atoms necessary to complete a benzoxazole nucleus and Z represents the non-metallic atoms necessary to complete a five-membered heterocyclic nucleus containing a nuclear nitrogen and a nuclear sulfur atom.

2,170,805

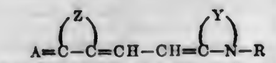
PHOTOGRAPHIC EMULSION CONTAINING DYES FROM BENZOXAZOLES

Leslie G. S. Brooker, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

Application April 24, 1937, Serial No. 138,824
6 Claims. (Cl. 95—7)



1. A photographic gelatino-silver-halide emulsion sensitized with a dye of the following formula:



wherein A represents an atom selected from the group consisting of oxygen and sulfur, R represents an alkyl group, Y represents the non-metallic atoms necessary to complete a benzoxazole nucleus and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of five-membered and six-membered heterocyclic nuclei.

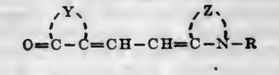
2,170,806

MEROCYANINE DYES CONTAINING A THIONAPHTHENONE NUCLEUS

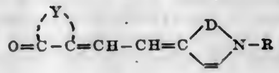
Leslie G. S. Brooker, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 25, 1938, Serial No. 192,610
9 Claims. (Cl. 260—240)

1. A dye characterized by a formula selected from the group consisting of the following formulas:



and



wherein D represents an organic group selected from the group consisting of vinylene and phenylene groups, R represents an alkyl group, Y represents the non-metallic atoms necessary to complete a 2(1)-thionaphthenone nucleus and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of five-membered and six-membered heterocyclic nuclei.

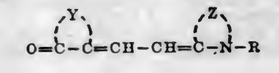
2,170,807

MEROCYANINE DYES FROM BARBITURIC ACIDS

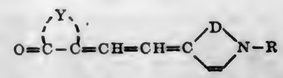
Leslie G. S. Brooker, Rochester, N. Y., assignor to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey

No Drawing. Application February 25, 1938, Serial No. 192,611
8 Claims. (Cl. 260—240)

1. A dye characterized by a formula selected from the group consisting of the following formulas:



and



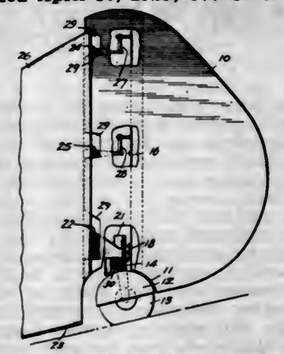
wherein D represents an organic group selected from the group consisting of vinylene and phenylene groups, R represents an alkyl group, Y represents the non-metallic atoms necessary to complete a barbituric acid nucleus and Z represents the non-metallic atoms necessary to complete a heterocyclic nucleus selected from the group consisting of five-membered and six-membered heterocyclic nuclei.

2,170,808

INTEGRAL TAIL WHEEL AND RUDDER FOR AIRPLANES

Harold W. Case, Dayton, Ohio

Application June 10, 1937, Serial No. 147,513
14 Claims. (Cl. 244—109)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



1. In an aircraft, a fuselage, an air rudder, a

vertically disposed hinge connecting the fuselage and the rudder and providing for movement of the rudder along the axis of the hinge with respect to the fuselage, an oleo cylinder fixedly attached to the fuselage below the hinge and having its axis in coincidence with the axis of the hinge, an oleo piston in the cylinder and having a swivel connection with the rudder, and a tail wheel integrally connected with said oleo piston.

2,170,809
ALKYLATED DIPHENYLOXIDE

Gerald H. Coleman and Ralph P. Perkins, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan

No Drawing. Application October 21, 1938, Serial No. 236,166
12 Claims. (Cl. 260—612)

1. An alkylated diphenyloxide containing at least eighteen carbon atoms in the molecule as a whole and having at least one alkyl group containing not less than two carbon atoms.

2,170,810
MACHINE FOR FORMING COLD WROUGHT PRODUCTS

Edward S. Cornell, Jr., Larchmont, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application February 19, 1936, Serial No. 64,722
6 Claims. (Cl. 59—2)

2. A machine comprising in combination, a stationary die holder, a plurality of operating stations arranged in one face thereof, a dial plate freely rotatably mounted on one face of the stationary die holder and associated with the operating stations, means for cutting a metal slug, means in said dial plate for receiving said slug, means for intermittently rotating the dial plate to bring the slug successively into operative relation with the operating stations, gaging means movable through said dial plate for establishing said operative relationship, punches movable through the dial plate to thereby force the slug out of the dial plate into the operating stations to be worked upon, and means for removing the worked upon slug from the operating stations and repositioning the same within the dial plate at the previously occupied stations thereof.

2,170,811
METHOD OF FORMING COLD-WORKED ARTICLES

Edward S. Cornell, Jr., Larchmont, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application July 15, 1937, Serial No. 153,728
3 Claims. (Cl. 29—157)

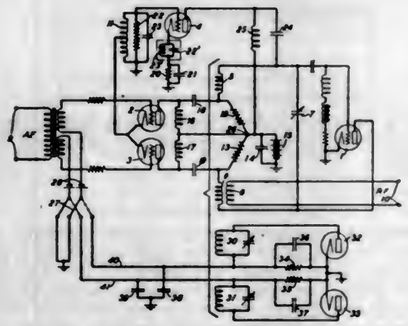


1. The method of producing a tubular object having a non-circular formation at its periphery, which comprises confining a metallic mass within a female die, subjecting said mass, in cold state, to endwise pressure by a male die having an outer diameter less than the inner diameter of the female die to flow metal of said mass from the central portion of said mass outwardly and upwardly between the walls of said male and female die, compressing said shell within a die to flow metal of said mass laterally of the walls of said shell to provide the said non-circular formation, applying endwise male die pressure to the base of said shell to flow metal of said shell upwardly between said male and female dies to elongate the wall of the object to substantially its ultimate length, and subsequently severing said base portion to provide a clear bore through said object.

2,170,812
FREQUENCY MODULATION

Owen E. De Lange, New York, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application March 12, 1938, Serial No. 195,501
8 Claims. (Cl. 179—171)

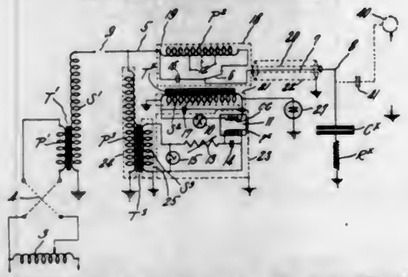


1. The method of modulating the frequency of the wave generated by an oscillation generator having a frequency determining circuit comprising deriving two high frequency voltage components from said circuit, normally balancing said components against each other, producing equal and opposite changes in said components under control of a modulating wave to produce a resultant unbalance wave proportional in amplitude to the modulating wave, and applying said unbalance wave to said resonant circuit in such phase as to vary the resonant frequency thereof.

2,170,813
APPARATUS FOR DETERMINING INSULATING VALUES

Frank C. Doble, Cambridge, and Glenn H. Browning, Winchester, Mass., assignors to Doble Engineering Company, Medford, Mass., a corporation of Massachusetts

Application June 20, 1936, Serial No. 86,314
11 Claims. (Cl. 175—183)



1. An apparatus for measuring in the field electrical qualities of insulation interposed between ground and a high tension terminal, comprising the combination with a source of alternating voltage having a connection for completion of the circuit with the insulation, of a conductor adapted to lead from said voltage source to the high tension terminal of the insulation, a transformer having its primary winding in series connection with said conductor, a shield in electrical connection with the high tension terminal of said winding, enveloping the winding and conductor, means for measuring quantities determinative of energy loss and current or capacitance of said insulation, and connections for applying to said measuring means voltage at a substantially constant phase and magnitude from said voltage source, and current from the secondary winding of said transformer.

2,170,814
METHOD OF PREPARING COPPER POWDER

Joseph E. Drapeau, Jr., Calumet City, Ill., assignor to The Glidden Company, Cleveland, Ohio, a corporation of Ohio

No Drawing. Application December 6, 1937, Serial No. 178,347
2 Claims. (Cl. 75—72)

1. The method of producing copper powder which comprises roasting pieces of substantially pure copper presenting a large surface area to oxidation in an oxidizing atmosphere, to produce a surface oxidation to cuprous oxide, stopping the oxidation while a core of metal remains unoxidized, to maintain the cuprous state of the oxide, milling the copper oxide, separating the powdered oxide from the copper, and reducing the oxide to metallic copper by roasting in a reducing atmosphere at a temperature below that at which substantial sintering occurs.

2,170,815
FLARE

Harold S. Eroe, Wharton, N. J., assignor to the Government of the United States of America, as represented by the Secretary of War and his successors in office

Application May 25, 1938, Serial No. 209,965
3 Claims. (Cl. 102—24)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)

1. In a flare, a casing, a cap on one end of the casing, said cap formed with a diametrically extending arched portion having a sloping end with an aperture, a thimble held in one end of the arched portion by crimping the bases and sides of the arched portion, a primer carried by the

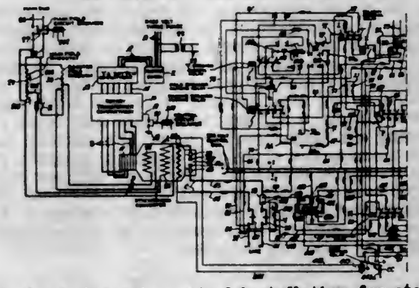


thimble, a pull wire passing through the primer and the aperture in the sloping end of the arched portion, said wire having a bent portion disposed between the thimble and the sloping end of the arched portion.

2,170,816
SYNCHRONOUS CONVERTER CONTROL SYSTEM

Joseph C. Ferrante, Bronx, N. Y.

Application August 13, 1937, Serial No. 158,881
25 Claims. (Cl. 171—123)



1. An automatic control installation for starting, operating and stopping a synchronous converter system of the type having a main high tension multi-phase main feeder, a machine circuit breaker connected to said feeder, a Y circuit breaker and a delta circuit breaker alternately connected to said machine circuit breaker, said Y breaker being connected during starting and said delta breaker during operating, a transformer connected alternately to said delta and Y breaker, to said Y breaker during starting and to said delta breaker during operating to produce a multi-phase subsidiary feeder, a synchronous converter rotor connected to said subsidiary feeder, a stator carrying a field winding, a circuit leading to said field winding including a field circuit breaker and an adjustable field rheostat, a motor to adjust said rheostat, said rotor carrying a commutator, pilot and main brushes to cooperate with said commutator, a motor to elevate and lower said main brushes, direct current lines connected to said main brushes, and independently operated negative and positive breakers on said direct current lines;

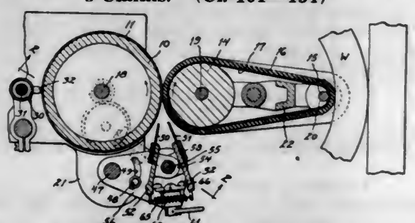
said installation comprising a plurality of control circuits having means for closing the Y breaker, means for closing the machine breaker, means for closing the field breaker, means for actuating said adjusting motor to decrease the resistance at the field rheostat, means for opening the Y breaker and means for closing the delta breaker substantially immediately thereafter, means for operating the motor for lowering the brushes, means for closing the negative breaker and means for closing the positive breaker, each of said means including a control relay and means for operating each of said means automatically in the sequence stated, an additional control operating relay and means to energize said additional relay and to deenergize said other control relays subsequent to closing of said positive breaker.

2,170,817

INKING SYSTEM FOR SURFACE-DECORATING MACHINES

Edward William Hamant, Dayton, Ohio, assignor to Oxford Varnish Corporation, Detroit, Mich., a corporation of Michigan

Application September 3, 1937, Serial No. 162,264
6 Claims. (Cl. 101—154)



1. In a surface decorating machine, a pattern, means to supply color to the pattern, scraping means coacting with said pattern to remove surplus color therefrom, an offset printing member arranged to remove the remaining color from the pattern roller and transfer it to the work by a rolling action, a scraper to remove any color remaining on said member after the pattern has been transferred from the work, a support for both scrapers, means to move each scraper relative to said support and out of contact with the pattern and member respectively, means to remove said support and scrapers as a unit away from their coacting members.

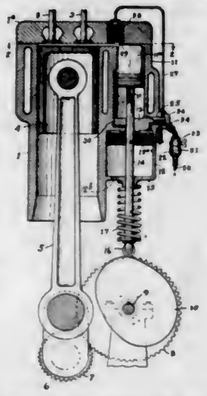
2,170,818

INTERNAL COMBUSTION ENGINE

Edward Hanson, Cleveland, Ohio

Application November 16, 1937, Serial No. 174,784
13 Claims. (Cl. 123—33)

1. An internal combustion engine comprising a main cylinder having air inlet and exhaust valves, a piston therein, a separate cylinder arranged to form at one end a combustion chamber in communication with one end of said main cylinder, the opposite end of said separate cylinder being arranged to form a fuel compression chamber, a conduit leading from said fuel compression chamber to said combustion chamber, means for supplying fuel into said compression chamber, a piston in said separate cylinder arranged to be operated by the air compressed by the piston in said main cylinder in the compression stroke thereof to compress the fuel in said fuel compression chamber, and mechanism for controlling the movement of said last mentioned piston in relation to the movement of said first mentioned piston, said mechanism including means for increasing the speed of said last mentioned piston at a predetermined position thereof in its compression stroke, whereby the compressed fuel is injected into said combustion chamber.

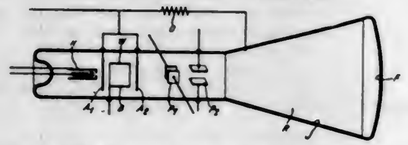


2,170,819

CATHODE RAY TUBE RECORDING DEVICE

Walter Heimann, Berlin, Germany, assignor to Allgemeine Elektricitats-Gesellschaft, Berlin, Germany

Application May 4, 1934, Serial No. 723,835
In Germany May 9, 1933
2 Claims. (Cl. 250—162)



1. In cathode ray tube construction, an envelope including therein electrode structure for producing upon application of suitable controlling voltages a cathode ray beam, fluorescent screen structure for rendering the produced cathode ray beam visible, beam deflecting means for causing the beam to traverse the screen, a metallic coating upon the inner tube wall extending longitudinally of the tube in the area intermediate the deflecting means and the screen and removed by a longitudinal spacing of at least three centimeters from the deflecting system, said coating being adapted to be maintained at a voltage at least no greater than the tube anode voltage, and an inert gaseous filling within the tube at a pressure of the order of 1×10^{-3} mm. mercury.

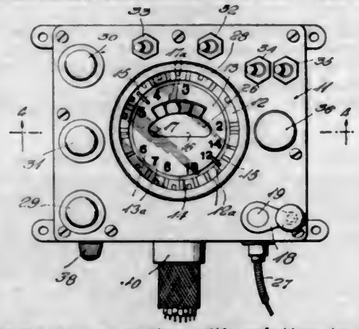
2,170,820

CONTROL MECHANISM FOR RADIO RECEIVERS

Frederick J. Hooven, Dayton, Ohio

Application July 17, 1936, Serial No. 91,190
8 Claims. (Cl. 250—40)

4. Remote control apparatus for receivers comprising a housing, a tuning actuator journaled in said housing, a sleeve bearing disposed centrally in said housing, a rotary gear journaled on said sleeve bearing and operatively connected with said tuning actuator, a pair of calibrated dial members located adjacent said gear, and indicator members supported by said gear and extending over each of said calibrated dial members, and a tuning meter located within said sleeve bearing, said tuning meter having a movable indicator operative with relation to one of said dial members.

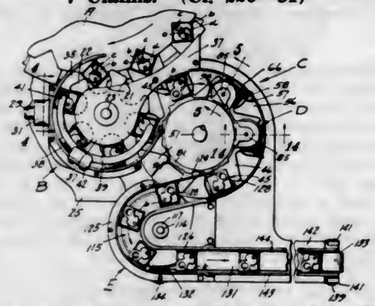


2,170,821

CAN-CLOSING MACHINE

John M. Hothersall, Brooklyn, N. Y., and August E. Almgren, Hillside, N. J., assignors to American Can Company, New York, N. Y., a corporation of New Jersey

Application July 21, 1937, Serial No. 154,926
7 Claims. (Cl. 226—81)



1. In a machine for closing and sealing a fibre container having a closure element hingedly mounted on the top wall thereof and adapted to be inserted into an opening in said wall of the container, the combination of mechanism for advancing a said container along a predetermined path of travel through the machine, means disposed in the path of the advancing container and above said closure element for engaging and inserting the closure element into the container opening, and means for expanding the inserted closure element within the container opening and beneath the same for sealing the container during its further advancement.

2,170,822

TREE BAND

Willis B. Kirkpatrick, Scarsdale, N. Y.

Application May 12, 1937, Serial No. 142,084
4 Claims. (Cl. 47—24)



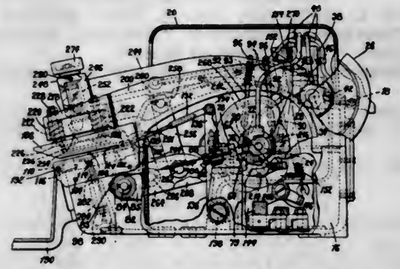
1. A tree band comprising an elongated body of inorganic wool in attenuated form for encircling a tree, and an extensible retaining strip superimposed upon said wool for fastening same on a tree, said retaining strip having a multiplicity of holes of substantial size permitting said wool to protrude therethrough so as to facilitate the retention of a viscous insect holding material and impede the passage of insects.

2,170,823

MACHINE FOR OPERATING ON SHOE PARTS

Axel A. Lawson, Beverly, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application April 1, 1937, Serial No. 134,367
41 Claims. (Cl. 12—51)



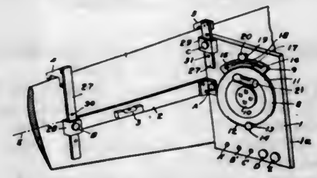
1. A machine for operating on quarter linings for shoes having, in combination, means for supporting a quarter lining with a portion thereof spanning an opening, means for clamping the quarter lining entirely around the periphery of said opening, and chromium plated means for stretching that portion only of the quarter lining which spans the opening substantially uniformly throughout its entire area, said means being constructed and arranged to engage only a part of the portion of the quarter lining spanning the opening.

2,170,824

PROPELLER PROTRACTOR

Jay Y. Lichtenwalner, San Diego, Calif., assignor to Pacific Scientific Company, San Francisco, Calif., a corporation of California

Application April 9, 1938, Serial No. 201,144
8 Claims. (Cl. 33—174)

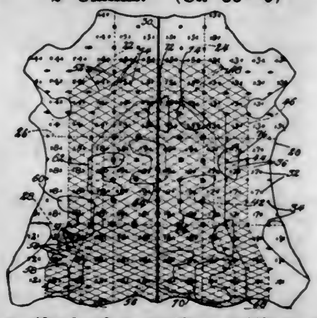


6. A propeller pitch measuring device comprising a base plate provided with edges extending at ninety degrees from one another, an arcuate protractor member pivotally mounted on one side of said plate, an arm extending at right angles from the face of said plate and plane of rotation of said protractor, and means arranged and adapted for suspending said device from a mounted horizontally extending propeller blade with said plate projecting at right angles to said blade and said arm level and aligned with the center line of said blade.

2,170,825
PROPIONIC ACID SYNTHESIS
Donald J. Loder, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 27, 1938, Serial No. 187,226
8 Claims. (Cl. 260—532)

1. A process of producing propionic acid which comprises reacting ethanol with carbon monoxide in the presence of boron fluoride and water, as the catalyst, at a temperature between 125° C. and 180° C., and at a pressure in excess of 25 atmospheres.

2,170,826
METHOD OF RATING AND RECORDING CUTTING OPERATIONS
Albert L. McMaster, Revere, Mass., assignor to Krippendorf Kalculator Company, Portland, Maine, a corporation of Maine
Application November 13, 1936, Serial No. 110,721
2 Claims. (Cl. 33—6)



1. A method of recording cutting operations performed upon skins which consists in applying identifying symbols at spaced intervals over the entire area of a face of a skin, providing a chart having identifying symbols corresponding to those upon the skin and similarly spaced, cutting blanks from the skin, successively positioning the blanks upon a sheet of transparent paper laid upon the chart, utilizing the symbols to locate the blanks in the same relative positions that the material thereof occupied in the skin, and marking the outlines of the blanks upon the paper to form a permanent record of the manner in which the blanks were cut from the skin.

2,170,827
CELLULOSIC PELLICLES AND METHODS FOR PRODUCING SAME
William Frederick Underwood, Buffalo, N. Y., and Henry S. Rothrock, Wilmington, Del., assignors, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 4, 1936, Serial No. 57,634
22 Claims. (Cl. 91—68)

1. Water-sensitive film suitable for use as a wrapping tissue formed from an aqueous alkaline cellulosic solution containing, as a deformation-restricting agent, a softening agent for said film comprising an organic compound having a hygroscopicity of from 1 to 80, a boiling point of at least 135° C. at a pressure of 12 mm. of mercury, and a solubility of at least 1% in water at 20° C., said organic compound being present in sufficient quantity to restrict the deformation of the film to a maximum of 3.0.

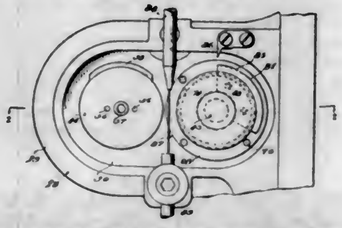
2,170,828
PELLICLE AND PROCESS FOR PREPARING SAME
Frederick M. Meigs, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 4, 1936, Serial No. 57,635
16 Claims. (Cl. 91—68)

1. Water-sensitive film suitable for use as a wrapping tissue formed from an aqueous alkaline cellulosic solution and containing, as a deformation-restricting agent, a softening agent for said film comprising an ester of a carboxylic acid containing an ether group having a hygroscopicity of from 1 to 80, a boiling point of at least 135° C. at a pressure of 12 mm. of mercury, and a solubility of at least 1% in water at 20° C., said ester being present in sufficient quantity to restrict the deformation of the film to a maximum of 3.0.

2,170,829
FILM AND PROCESS FOR PREPARING SAME
Frederick M. Meigs, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application January 4, 1936, Serial No. 57,636
16 Claims. (Cl. 91—68)

1. Water-sensitive film suitable for use as a wrapping tissue formed from an aqueous alkaline cellulosic solution and containing, as a deformation-restricting agent, a softening agent for said film comprising a carbamic acid ester having a hygroscopicity of from 1 to 80, a boiling point of at least 135° C. at a pressure of 12 mm. of mercury, and a solubility of at least 1% in water at 20° C., said ester being present in sufficient quantity to restrict the deformation of the film to a maximum of 3.0.

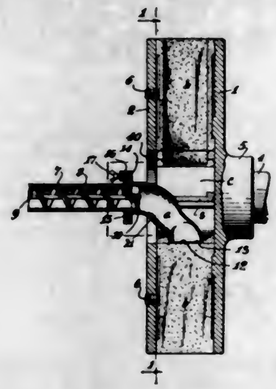
2,170,830
WIRE FEED MECHANISM
Julius M. Minkow, New York, N. Y., assignor to Robert Minkow, Richmond Hill, N. Y.
Application August 23, 1938, Serial No. 226,388
6 Claims. (Cl. 140—131)



1. In a wire feed mechanism, a pair of oppositely revoluble wire feed roll structures, each provided with a gripper, said grippers coacting on the operation of said structures for intermittently feeding successive lengths of wire to be acted upon, one of said structures including a revoluble slidably mounted carrier disposed for adjustment in an arcuate plane and to which the gripper of such structure is fixedly secured to, bodily carried with and disposed in extended relation thereto, and such structure including a revoluble driving element for the carrier, said element and carrier having coacting interengaging means for

latching the carrier in its adjusted position to said element to be revolved by the latter, the sliding and adjusting of the carrier being relative to said element, and the adjustment of the carrier providing for the adjustment of the gripper fixed thereto relative to the gripper of the other structure to vary the extent of the feed on the coaction of the grippers.

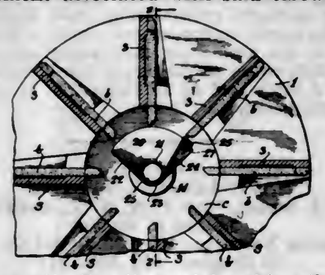
2,170,831
ABRASIVE THROWING MACHINE
Verne E. Minich, Scarsdale, N. Y., assignor to The American Foundry Equipment Company, Mishawaka, Ind., a corporation of Delaware
Application May 25, 1934, Serial No. 727,398
Renewed November 25, 1938
6 Claims. (Cl. 51—9)



3. A centrifugal machine for throwing abrasive at blasting velocities including, a plurality of spaced throwing blades mounted for high speed rotation about a common axis, said blades extending inwardly short of said axis of rotation to provide a center inlet, a tubular control member having a discharge opening arranged to direct the abrasive substantially radially into the path of rotation of said blades, and a screw conveyor extending into said tubular control member with the inner end thereof extending inwardly short of the discharge opening, said screw conveyor being operative to extrude a core of abrasive from the discharge opening in said tubular control member.

2,170,832
ABRASIVE THROWING MACHINE
Verne E. Minich, Scarsdale, N. Y., assignor to The American Foundry Equipment Company, Mishawaka, Ind., a corporation of Delaware
Original application May 25, 1934, Serial No. 727,398. Divided and this application November 11, 1935, Serial No. 49,328. Renewed April 13, 1939
10 Claims. (Cl. 51—9)

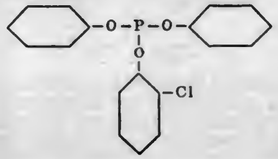
1. In a centrifugal blasting machine designed for throwing abrasive at blasting velocities comprising, spaced rotatably mounted throwing blades extending inwardly short of the axis of rotation of said blades to provide a center inlet, abrasive feeding means including an elbow-shaped nozzle having a discharge opening extending into said center inlet operative to direct abrasive into the path of rotation of said blades for a limited arc, and means for controlling the length of path swept by the thrown abrasive including, a movable element associated with said elbow-shaped



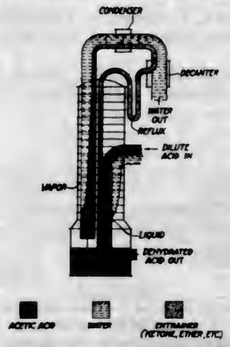
nozzle for adjusting the peripheral length of said discharge opening.

2,170,833
DI-PHENYL MONO-ORTHO-CHLORPHENYL PHOSPHITE
Clarence L. Moyle, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application November 1, 1937, Serial No. 172,163
1 Claim. (Cl. 260—461)

Di-phenyl-mono-ortho-chlorphenyl phosphite, a colorless mobile liquid distilling at approximately 238°–246° C. under 6 millimeters pressure, having a specific gravity of 1.159 at 25/25° C. and having the formula:



2,170,834
PROCESS FOR THE DEHYDRATION OF LOWER FATTY ACIDS WITH KETONES AND ETHERS
Donald F. Othmer, Brooklyn, N. Y., assignor, by direct and mesne assignments, to Tennessee Eastman Corporation, Kingsport, Tenn., a corporation of Virginia
Application July 3, 1936, Serial No. 88,823
13 Claims. (Cl. 202—42)



1. In the continuous process of dehydrating aqueous solutions of the lower fatty acids by distillation in the presence of withdrawing agents from the group consisting of ketones and ethers

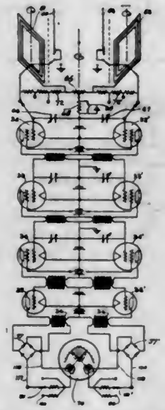
for the removal of water, the separation of the last part of the water from the lower aliphatic acid by straight rectification, said rectification using the same vaporous heat which is thereafter passed to the azeotropic distillation and keeping said withdrawing agent out of the resultant dehydrated fatty acid at all times that it occurs as dehydrated acid.

2,170,835

NAVIGATIONAL SYSTEM

Emil J. Simon, New York, N. Y., assignor to Jennie S. Simon

Application November 10, 1933, Serial No. 697,371
29 Claims. (Cl. 250—11)



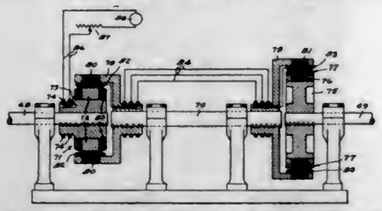
1. The method of radio navigation, comprising receiving a radio signal simultaneously in a plurality of angularly displaced directional antennae; simultaneously and independently amplifying the signal received by each antenna equally; simultaneously and independently measuring the strength of each of said amplified signals; and utilizing the respective signal strength to determine both the direction of and distance from said source of radio signals in a single indication.

2,170,836

VARIABLE SPEED DYNAMO-ELECTRIC POWER TRANSMITTING AND CONVERTING DEVICE

Byron E. Smith, Ketchikan, Territory of Alaska; E. C. Wooster executor of said Byron E. Smith, deceased

Application April 2, 1935, Serial No. 14,292
8 Claims. (Cl. 172—237)



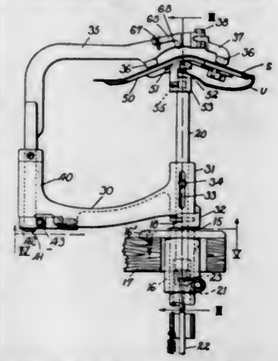
1. A power transmitting and converting device comprising two relatively rotatable and inductively disposed winding elements forming a generator; two relatively rotatable and inductively disposed winding elements forming a motor with a magnetic field unlike in number of poles to the magnetic field of the generator; a variable output direct current exciting means for varying the strength of one of these magnetic fields; a mechanical mounting means linking one winding element of the generator with one winding element of the motor; mounting means for said other winding element of the generator; a separate mounting means for said other winding element of the motor mounting said other winding element of the motor for relatively free rotation as respects said other winding element of the generator; and an electrical connecting means linking one winding element of the generator with one winding element of the motor.

2,170,837

APPARATUS FOR USE IN MAKING SHOES

Harry L. Sutcliffe, Brooklyn, N. Y., assignor to The Del-Mac Shoe Process Corporation, New York, N. Y., a corporation of New York

Application May 27, 1938, Serial No. 210,445
16 Claims. (Cl. 12—123)



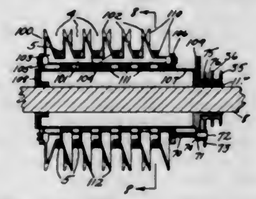
1. Apparatus for use in making shoes comprising, in combination, a post, a form mounted for rocking movements on the upper end of the post, said form having its upper surface profiled to correspond substantially with the heightwise curvature of a shoe bottom, a pair of spaced abutments positioned above the form on opposite sides of the rocking axis thereof, resilient means normally urging the form and the abutment toward each over to clamp work on the form against said abutments, and a treadle for separating the form and the abutments against the resistance of said resilient means.

2,170,838

POWER TRANSMISSION

Allen M. Rossman, Wilmette, Ill.

Application December 26, 1934, Serial No. 759,249
24 Claims. (Cl. 74—230.17)



2. A shaft, an adjustable pulley comprising a tubular member supported on and coaxial with said shaft, a plurality of conical elements mounted in spaced relation on said tubular member, each of said elements having a plurality of radially extending slots, the corresponding slots of the respective elements being aligned parallel to the axis of the shaft, a longitudinal member extending through each line of slots, each of said longitudinal members having a row of teeth, said teeth being spaced to conform with the spacings of said conical elements, a pair of supporting rings fixed respectively to the corresponding ends of each of the longitudinal members, said rings being movably supported on said tubular member.

2,170,839

CELLULOSIC PELLICLES AND PROCESS FOR PREPARING SAME

Henry S. Rothrock, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 4, 1936, Serial No. 57,632
20 Claims. (Cl. 91—68)

1. Water-sensitive film suitable for use as a wrapping tissue formed from an aqueous alkaline cellulosic solution containing, as a deformation-restricting agent, a softening agent for said film comprising an organic ester containing an ether group having a hygroscopicity of from 1 to 80, a boiling point of at least 135° C. at a pressure of 12 mm. of mercury, and a solubility of at least 1% in water at 20° C., said ester being present in sufficient quantity to restrict the deformation of the film to a maximum of 3.0.

2,170,840

CELLULOSIC FILM AND PROCESS FOR PREPARING SAME

Henry S. Rothrock, Wilmington, Del., assignor, by mesne assignments, to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application January 4, 1936, Serial No. 57,633
16 Claims. (Cl. 91—68)

1. Water-sensitive film suitable for use as a wrapping tissue formed from an aqueous alkaline cellulosic solution and containing, as a deformation-restricting agent, a softening agent for said film comprising an ester of a keto-acid having a hygroscopicity of from 1 to 80, a boiling point of at least 136° C. at a pressure of 12 mm. of mercury, and a solubility of at least 1% in water at 20° C., said ester being present in sufficient quantity to restrict the deformation of the film to a maximum of 3.0.

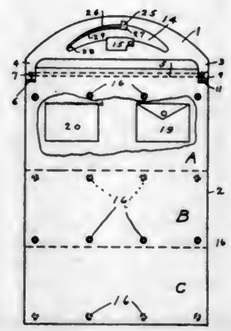
2,170,841

INTERCHANGEABLE UTILITY BAG

Harry August Thies and Minna Eleanor Thies, Severna Park, Md.

Application May 23, 1938, Serial No. 209,402
2 Claims. (Cl. 150—12)

1. A purse bag handle of the class described comprising in combination, a handle member in two parts of symmetrical construction having a slot for the insertion of fingers of the hand for holding same together, a self-closing lock attached to one of the members with jaws extending therefrom for embracing the two member parts and holding same together, side yokes extending from the member parts having slots therein for the insertion of rods for holding the bag thereto, rods for holding the bag as aforesaid, said rods having grooves in their end portions, coil springs mounted in the side yokes



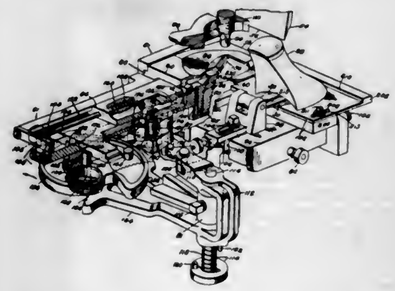
adapted to coact in the said grooves and secure the rods from coming out of the yokes.

2,170,842

HEEL-SEAT FITTING MACHINE

William D. Thomas, Lynnfield, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey

Application August 26, 1938, Serial No. 226,995
9 Claims. (Cl. 12—31.5)



1. A heel-seat fitting machine having, in combination, means for reducing the heel-end portion of an attached sole of a shoe for the reception of an interlocking heel, a back gage for positioning the heel-seat portion of the shoe with relation to said means, a heel gage comprising relatively movable abutments constructed and arranged to engage the rear face of the heel and the bottom of a sole-receiving channel formed in the breast of the heel, respectively, and mechanism movable in response to the relative movement of said abutments for locating the back gage in a predetermined position in accordance with the relative positions of the abutments.

2,170,843

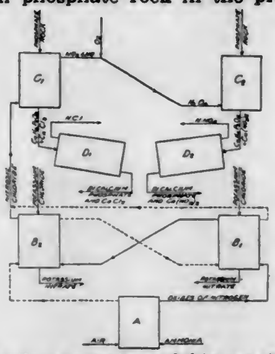
METHOD OF MAKING CALCIUM PHOSPHATE PRODUCTS

John W. Turrentine, Washington, D. C.

Application September 23, 1936, Serial No. 102,196
8 Claims. (Cl. 71—38)

1. A method of producing phosphate products which comprises contacting a gas containing

nitrosyl chloride as the preponderant acid reactant with phosphate rock in the presence of



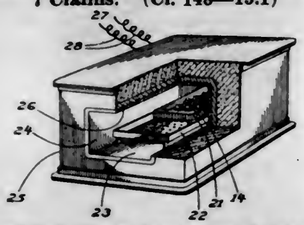
water to produce a water-soluble reaction product.

2,170,844

HARDENING REFRACTORY METALS

Lillian M. Van Note, Waukegan, Ill., assignor to Fansteel Metallurgical Corporation, North Chicago, Ill., a corporation of New York

Application September 15, 1937, Serial No. 163,893
7 Claims. (Cl. 148—13.1)



1. A method of gas hardening a hard refractory metal from the group consisting of tantalum, columbium and alloys predominating in one or both of tantalum and columbium which comprises degasifying said metal by heating it at a reduced pressure to from 1000 to 1400° C. supplying an atmosphere of hardening gas of the class consisting of air, nitrogen and oxygen at a temperature not exceeding 500° C. until the desired amount of gas has been taken up, and continuing the heating at a more elevated temperature under a reduced pressure of not more than a few millimeters of mercury until the absorbed gas has been substantially diffused into the metal body.

2,170,845

CELLULOSIC STRUCTURE AND METHOD FOR PREPARING SAME

John C. Woodhouse, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application March 17, 1937, Serial No. 131,540
8 Claims. (Cl. 106—40)

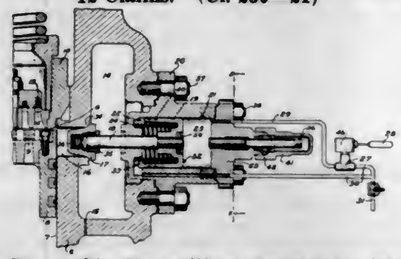
1. A flexible, durable, cellulosic structure composed of a material taken from the class consisting of regenerated cellulose, glycol cellulose, cellulose glycollic acid, lowly esterified and lowly etherified cellulose derivatives where there is only one ether or ester group associated with several cellulose units, said structure containing, as a softener therefor, a N-hydroxyalkyl amide having a boiling point of at least 175° C. at a pressure of 760 mm. mercury and a solubility of at least 5% in water at a temperature of 60°–70° C.

2,170,846

AUTOMATIC COMPRESSOR UNLOADER

Charles G. Bach, Milwaukee, Wis., assignor to The Vilter Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin

Application May 21, 1938, Serial No. 209,201
12 Claims. (Cl. 230—21)



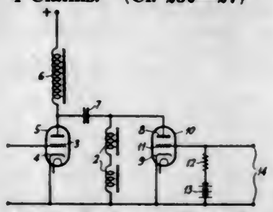
1. In combination with a compressor having suction and discharge valves and a piston displacement chamber communicable therewith, a clearance pocket communicable with the piston displacement chamber and having constant restricted communication with the suction line, an unloading valve for controlling communication between said pocket and said chamber, and a plunger for operating said valve, said plunger being movable to close said valve by compressor discharge pressure and to open said valve by mechanical means.

2,170,847

ELECTRON BEAM DEFLECTION CIRCUITS

George Baldwin Banks, Chelmsford, England, assignor to Radio Corporation of America, a corporation of Delaware

Application June 3, 1936, Serial No. 83,196
In Great Britain June 8, 1935
4 Claims. (Cl. 250—27)



1. In apparatus for controlling the deflection of an electronic beam, a thermionic amplifying tube having anode, cathode and at least one control electrode, means for impressing on a control electrode of said tube an electrical impulse of predetermined wave form, inductive deflecting means connected in the anode-cathode circuit of said tube, a thermionic tube having anode, cathode, and at least one control electrode, means for connecting the said deflecting means in the anode-cathode circuit of said latter tube, and means for impressing on a control grid of said latter tube an electrical impulse of predetermined wave form.

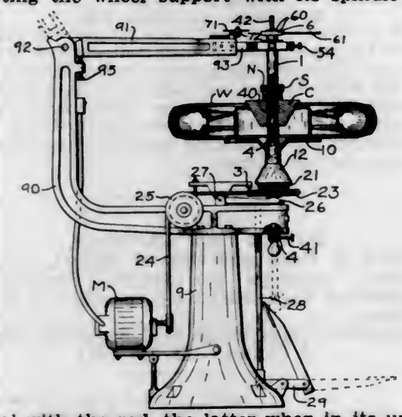
2,170,848

WHEEL BALANCE TESTER

Claude C. Bennett, South Bend, Ind., assignor to A. E. Feragen, Inc., Seattle, Wash., a corporation of Washington

Application September 26, 1936, Serial No. 102,786
19 Claims. (Cl. 73—51)

1. A wheel balance tester comprising a stand, means to support a wheel in horizontal position including a hollow spindle projecting above a wheel thus supported, and lying in such wheel's axis, a manually operated rod, guided within the stand and extendible within the spindle, for vertical movement between an upper and a lower position, which positions may be either within or without the spindle, means on the stand supporting the wheel support with its spindle co-



axial with the rod, the latter when in its upper position projecting within the spindle's bore to a point above the center of gravity of the wheel support and a wheel thereon, and a member within the spindle's bore engageable by the upper end of the rod, when thus upraised, to constitute a tilting bearing for the wheel support.

2,170,849

VERTICAL ANTENNA

Walter Berndt, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application July 24, 1937, Serial No. 155,446
In Germany August 1, 1936
4 Claims. (Cl. 250—33)



1. A vertical antenna having a physical height substantially less than a half the length of the operating wave consisting of a plurality of substantially pyramidal members each having a substantially constant characteristic impedance vertically arranged in an end to end series relationship, the apices of said members pointing downwards, the upper of said members having an electrical length greater than a quarter of the length of the operating wave, said antenna being so energized that a current loop appears in said upper member and a current node appears in said lower section above its lower end.

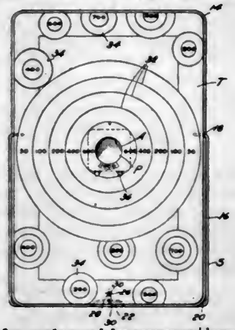
2,170,850

TARGET TOY

John Bonnett and Anthony Schillace, Girard, Pa., assignors to Louis Marx & Company, Inc., New York, N. Y., a corporation of New York

Application March 10, 1938, Serial No. 194,992
14 Claims. (Cl. 273—102)

1. A toy target having a flat extensive target face marked with appropriate target indications, at least one of said indications including an aperture, and releasable support means in back



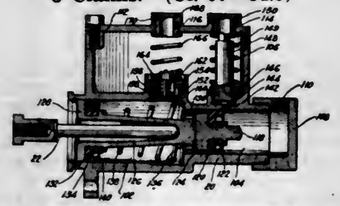
of said target for releasably supporting a frangible membrane across the aperture, said means being a backing plate which is itself apertured to clear the aforesaid target aperture.

2,170,851

MASTER CYLINDER AND PISTON STRUCTURE

Eugene G. Carroll, Los Angeles, Calif., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware

Application April 28, 1932, Serial No. 608,116
Renewed December 9, 1937
3 Claims. (Cl. 60—54.6)



1. In a hydraulic brake system, a fluid pressure producing device comprising a casing provided with a pair of openings, a reservoir associated therewith having its interior open to the atmosphere and communicating with said casing through both of said openings, a piston in said casing normally positioned rearwardly of the forward one of said openings, a check valve for the rearward opening allowing passage of liquid therethrough from said reservoir to said casing but normally preventing such passage in the reverse direction, a valve associated with said forward opening, and a spring bearing on said last named valve and maintaining it closed until the hydraulic pressure in said casing increases above a predetermined amount.

2,170,852

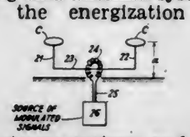
AIRCRAFT BLIND LANDING SYSTEM

Henri Chireix, Paris, France, assignor to Compagnie Generale de Telegraphic sans Fil, a corporation of France

Application July 30, 1936, Serial No. 93,333
In France August 9, 1935
9 Claims. (Cl. 250—11)

1. A radio beam transmitter for ultra-short waves comprising an antenna system having two upright conductors joined at the base by a horizontal conductor and having means including disc shaped capacitive members topping each up-

right conductor for producing a vertical polarization of energy radiated from said antenna system, means including a toroidal winding surrounding said horizontal conductor at the midpoint thereof for energizing said antenna system, means for characterizing the energization as standing



waves in the antenna system, and means for extending the field of influence of said transmitter in at least one direction, said means comprising a close network of conductors disposed at or near the ground level at a suitable region for reflecting the radio beam.

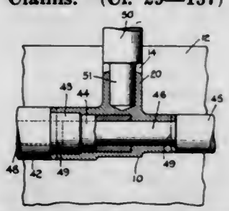
2,170,853

METHOD OF MAKING PIPE FITTINGS

Edward S. Cornell, Jr., Larchmont, N. Y., assignor, by mesne assignments, to American Radiator & Standard Sanitary Corporation, New York, N. Y., a corporation of Delaware

Application October 9, 1937, Serial No. 168,166

7 Claims. (Cl. 29—157)



1. That improved method of forming a pipe fitting which comprises utilizing a tubular blank having a cubical content in excess of the cubical content of the finished fitting desired; reducing one end of said blank by cutting excess metal therefrom; placing the blank in a die and positioning the same in the die by means of the cutaway portion; subjecting the blank to a preliminary operation to force a portion of the metal by cold flow laterally of the blank; forming a relatively enlarged opening in one end of the longitudinal portion of the blank under pressure, while simultaneously extending the length of the lateral, maintaining the longitudinal passage thus formed, while preliminarily forming a passage in the lateral completing the passage in the lateral, and then reaming the openings to size.

2,170,854

METHOXY ACETALDEHYDE AND PROCESS OF MAKING ALKOXY ACETALDEHYDES

Nathan L. Drake, College Heights, Md., assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application February 24, 1936, Serial No. 65,424

9 Claims. (Cl. 260—602)

1. As a chemical compound, methoxy acetaldehyde, the same being a mobile liquid, miscible with water, boiling at 92.3° C. under a pressure of 770 mm. of mercury absolute, and having a specific gravity of .9818 at 25°/4° C.

2. Process which comprises passing vapors of a monoalkyl ether of ethylene glycol into contact with a dehydrogenating catalyst in a reaction zone maintained at a temperature within the range from about 300° C. to about 425° C., and separately recovering the aldehyde thus produced.

2,170,855

PRODUCTION OF ALKOXYACETONES

Henry C. Chitwood, Lakewood, Ohio, assignor to Carbide and Carbon Chemicals Corporation, a corporation of New York

No Drawing. Application April 14, 1936, Serial No. 74,288

20 Claims. (Cl. 260—594)

20. Process which comprises passing the vapors of an alkoxyisopropanol into contact in a heated reaction zone with a metal catalyst functioning at the temperature maintained in said zone to remove hydrogen from the alkoxyisopropanol, withdrawing the resultant reaction products, and condensing and separately recovering the alkoxyacetone present therein.

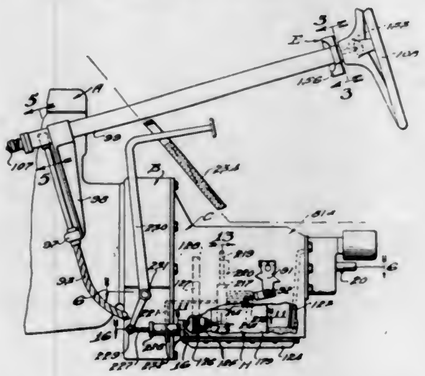
2,170,856

POWER TRANSMISSION

William T. Dunn and Otto W. Schotz, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware

Application November 26, 1937, Serial No. 176,607

19 Claims. (Cl. 74—262)



1. In a motor vehicle transmission having a plurality of speed ratio controlling devices, pressure fluid actuated means for selectively operating said devices, manually operable means for controlling the selective operation of said pressure fluid actuated means, means including a pump for supplying pressure fluid to said actuated means, means including a swingingly mounted wabble plate structure for controlling the pressure of fluid delivered by said pump, a plurality of pressure fluid actuated pistons for controlling movement of said wabble plate structure in one direction only, valve mechanism for controlling the pressure fluid actuation of said pistons, and means responsive to the operation of said manually operable means for actuating said valve mechanism.

2,170,857

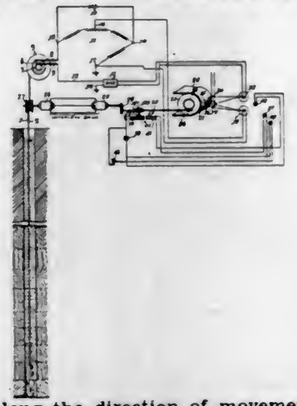
RECORDING APPARATUS AND METHOD

Raymond D. Elliott, Long Beach, Calif., assignor, by mesne assignments, to Schlumberger Well Surveying Corporation, Houston, Tex., a corporation of Delaware

Application December 1, 1937, Serial No. 177,533

15 Claims. (Cl. 175—182)

15. Apparatus for making a plurality of graphic records on a light-sensitive strip comprising a light-tight housing, a moving light-sensitive strip in the housing, and means for recording two variables on said strip at distances



spaced along the direction of movement of the sheet, for purposes of comparison.

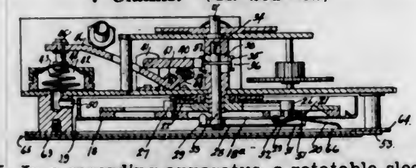
2,170,858

TIME AND DISTANCE RECORDER

Fred S. Engel, Brooklyn, N. Y.

Application April 10, 1937, Serial No. 136,045

7 Claims. (Cl. 234—32)



5. In a recording apparatus, a rotatable sleeve, a carriage guide secured thereto to turn therewith, a carriage slidably connected with said carriage guide, means to reciprocate said carriage, a shaft within the aforesaid sleeve, a table mounted at one end of said shaft, a stylus hingeably mounted intermediate thereof on said carriage with the non-marking end of said stylus supported by said table, means to raise and lower the shaft and with it the table and thereby rock the stylus into and out of contact with a blank.

2,170,859

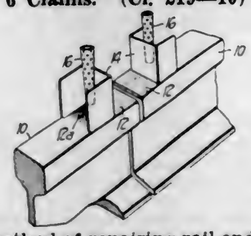
METHOD OF REPAIRING RAIL ENDS

Royal E. Frickey, San Francisco, Calif., assignor to Welding Service, Inc., San Francisco, Calif., a corporation of California

Application May 8, 1936, Serial No. 78,615

Renewed February 14, 1938

6 Claims. (Cl. 219—10)



1. In a method of repairing rail ends with weld metal, differentially preheating an end portion of the rail whereby a localized area of the rail surface spaced from the tip of the rail receives more heat than the tip of the rail, applying the weld metal to the end portion of the rail, on the upper surface of the rail ball, to form a layer of weld metal extending longitudinally of the rail, and then utilizing heat to temper a portion of the layer remote from the tip of the rail without tempering the weld metal at the tip of the rail to a comparable degree, thereby avoiding a danger zone of excessive hardness, said heat being residual heat resulting to a substantial degree from said preheating operation.

2,170,860

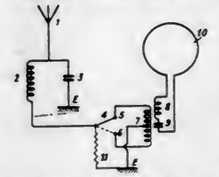
DIRECTION FINDER

Paul Hermanspann, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application August 21, 1936, Serial No. 97,090

In Germany August 29, 1935

2 Claims. (Cl. 250—11)



1. In a system as described a center-tapped coupling coil having its center tap grounded and switch contacts connected to each end of said coil, a switch arm adapted to alternately engage each of said contacts whereby the coupling sense of said coil may be reversed, a tuning coil having an end connected to said switch arm, the other end of said tuning coil connected to one side of a condenser, the other side of said condenser being grounded and a resistance connected between said switch arm and ground whereby the tuned circuit formed by said tuning coil and condenser is at no time broken.

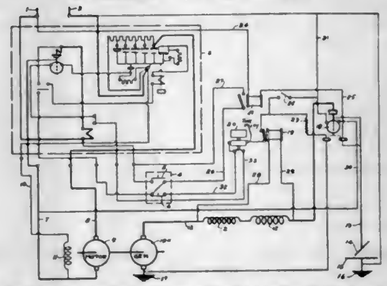
2,170,861

ELECTRIC APPARATUS POWER SAVER

Edward A. Hobart, Troy, Ohio

Application August 10, 1934, Serial No. 739,303

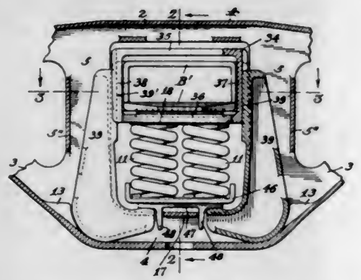
4 Claims. (Cl. 171—123)



1. In an electrical control system, a generator having a field circuit and an output circuit, a motor for driving said generator, a supply circuit for supplying electrical energy to said motor, a control circuit including means responsive to the closing of said generator output circuit for energizing said motor supply circuit to start said motor and operate said generator, an exciter for said generator field circuit, means for supplying control current to said control circuit, and means responsive to the operation of said exciter for

opening said control current supply circuit whereby to prevent the flow of generator output circuit current therethrough.

2,170,862
CAR TRUCK
Roy C. Hobson, Cleveland Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Original application April 2, 1935, Serial No. 14,213, now Patent No. 2,091,854, dated August 31, 1937. Divided and this application May 12, 1937, Serial No. 142,303
15 Claims. (Cl. 105—193)



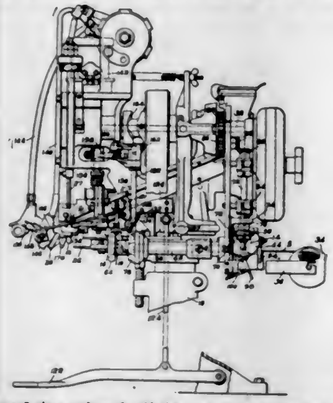
1. In a car truck, a side frame, a bolster, spring means beneath said bolster for supporting the same, a unitary band surrounding said bolster and adapted at times to move therewith, said band having portions spaced from said bolster to permit a limited amount of relative movement therebetween including side portions adjacent the sides of the bolster, and a bottom portion joining said side portions interposed between said bolster and spring means, and means on said side frame for supporting said spring means and exerting pressure against said side portions under the influence of said spring means.

2,170,863
PROCESS FOR MELTING UP LIGHT METAL SCRAP
Erich Junker, Berlin-Charlottenburg, and Willibald Leitgebel, Berlin-Wilmersdorf, Germany
No Drawing. Application June 2, 1937, Serial No. 146,006. In Germany June 6, 1936
4 Claims. (Cl. 75—65)

1. A process which comprises melting up light metal scrap at a temperature below 690° C. in the presence of a flux consisting of a mixture of at least three different salts comprising sodium chloride, cryolite, and barium chloride, said salts being so proportioned as to melt between 520 and 690° C.

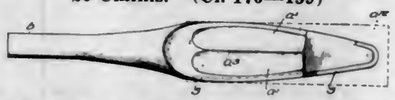
2,170,864
MACHINE FOR MANUFACTURING STRAP SANDALS
Jacob S. Kamborian, Newton, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application April 4, 1938, Serial No. 199,878
10 Claims. (Cl. 12—1)

1. A machine for operating upon shoes comprising means for pressing an end of a piece of strip material against an insole presented to the machine, means for driving a fastening through the end of the strip material to secure the latter to the insole, strip severing means, and means operable subsequently to the operation of the fastening driving means to feed a strip of mate-



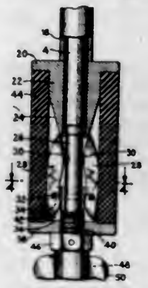
rial a predetermined distance past the severing means.

2,170,865
PROPELLER BLADE
Glen T. Lampton, Williamsport, Pa., assignor to Aviation Manufacturing Corporation, Williamsport, Pa., a corporation of Delaware
Application November 13, 1937, Serial No. 174,377
20 Claims. (Cl. 170—159)



1. A hollow propeller-blade formed of medium carbon steel containing nickel, chromium and molybdenum and comprising a tubular shank and face-sections having their margins joined by resistance-welding at their leading and trailing edges.

2,170,866
INTERNAL EXPANSION STOPPER
Franklin McAllister, Flushing, N. Y.
Application April 1, 1938, Serial No. 199,449
6 Claims. (Cl. 220—24.5)



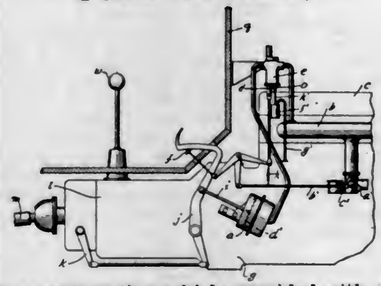
6. A stopper for closing substantially circular openings comprising a hollow cylindrical deformable plug member having a rod passing through its axis, retaining means fixed on the rod in contact with one end of the plug, a plurality of fingers within the plug, a second retaining means on the rod in contact with the opposite end of the plug provided with an extension into the plug having a camming surface and means on the rod for forcing the two retaining members toward each other and the camming surface against the fingers to force them outwardly and expand the plug.

2,170,867
PENCIL
Kay Miller, New Brunswick, N. J., assignor to Joseph Dixon Crucible Company, Jersey City, N. J., a corporation of New Jersey
Application May 18, 1939, Serial No. 274,358
5 Claims. (Cl. 120—21)



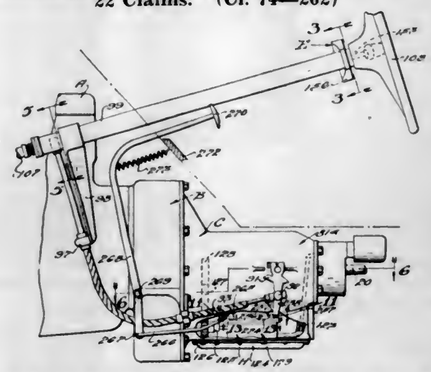
2. A pencil of the character described comprising a body having a longitudinal bore therein, a sleeve fixed in one end of the pencil body and having a projecting outer end, a lead-holding member slidingly received in the projecting end of the sleeve and having a collapsible outer end, and a cap having an opening at its outer end for collapsing the outer end of the lead-holding member onto a lead, the opening in the outer end of the cap being of a diameter slightly greater than the diameter of the outer end of the lead holding member for spacing the outer end of the cap from the lead.

2,170,868
CONTROL OF MOTOR VEHICLE CLUTCHES
Robert Leslie Neill, Birmingham, England, assignor to Bendix Aviation Corporation, Chicago, Ill., a corporation of Delaware
Application February 2, 1935, Serial No. 4,705
In Great Britain February 2, 1934
1 Claim. (Cl. 192—.01)



In an automotive vehicle provided with an internal-combustion engine and a clutch, a force feed mechanism for lubricating the engine, a pressure differential operated motor for operating the clutch, valve means for controlling the operation of said motor including a cut-off valve, power means for operating said cut-off including a fluid operated motor, a spring within said motor operative to place said cut-off valve in position to render the clutch operating motor operative, said power means further including another spring operative, when the fluid operated motor is energized, to place said cut-off valve in a closed position to render the clutch operating motor inoperative.

2,170,869
POWER TRANSMISSION
Carl A. Neracher and William T. Dunn, Detroit, Mich., assignors to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application November 26, 1937, Serial No. 176,606
22 Claims. (Cl. 74—262)

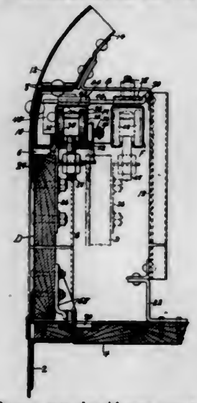


1. In a motor vehicle transmission having a plurality of speed ratio controlling devices, pressure fluid actuated means for selectively operating said devices, manually operable means for controlling the selective operation of said devices, means including a pump for supplying pressure fluid to said fluid actuated means, a swingingly mounted wabble plate structure for regulating the pressure of fluid delivered by said pump, said swingingly mounted wabble plate structure being adapted for swinging movement from an inclined position of maximum pump delivery to a substantially leveled off position of minimum pump delivery, means yieldingly urging said wabble plate structure toward its said inclined position, means operated by the pump delivery pressure fluid and acting on said wabble plate structure in opposition to said yielding means for swinging said wabble plate structure toward its said leveled off position, and means opposing the last said swinging movement of said wabble plate structure with selectively variable force for varying the pump delivery pressure in accordance with selective operation of said control devices, said opposing means including variable abutment means, a relatively stiff spring thrusting against said wabble plate structure and a relatively light spring intermediate said stiff spring and said variable abutment means.

2,170,870
SLIDING DOOR
Daniel R. Nichols, Berwick, Pa., assignor to American Car and Foundry Company, New York, N. Y., a corporation of New Jersey
Application September 17, 1937, Serial No. 164,287
9 Claims. (Cl. 20—19)

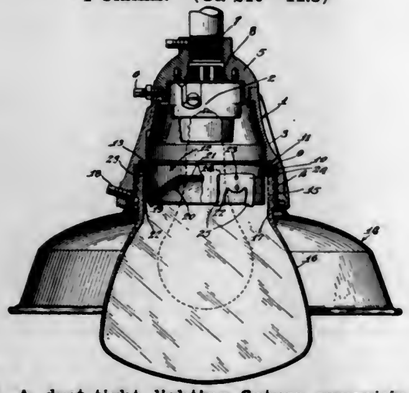
1. A sliding door arrangement for railway cars having a car floor located between side walls with a door opening therein, said arrangement comprising a sliding and laterally movable door to

close the door opening, fixed guides recessed in the floor to guide the lower edge of the door, an upper supporting trackway for the door consisting of a fixed and a movable section, said movable section being shiftable into and out of alignment with the fixed section to cause lateral move-



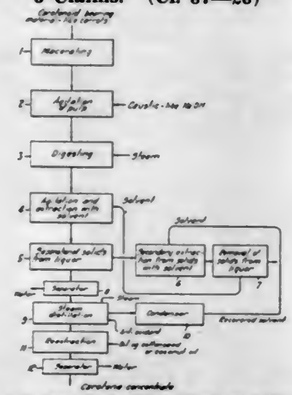
ment of the door, projections on said fixed guides also recessed in the floor and permitting the lateral movement of the door, and locking means maintaining said fixed and movable sections in alignment for sliding movement of the door along the trackway and recessed guides.

2,170,871
DUSTPROOF FIXTURE
George F. Niemann, Chicago, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application April 27, 1935, Serial No. 18,665
Renewed October 9, 1937
4 Claims. (Cl. 240—11.3)



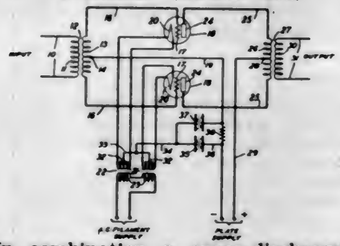
1. A dust-tight lighting fixture comprising a hood having an internally threaded skirt portion, a lamp socket supported in said hood, a dust-tight enclosure forming with said hood a dust-tight housing for a lamp bulb, said hood having an annular shoulder above said threaded portion, a gasket seated on said shoulder, said enclosure having a portion screwed into said internally threaded portion and having a shoulder bearing on said gasket, an annular reflector mounted on said hood and surrounding the neck of the lamp bulb, and spring means mounted on said annular reflector for bearing on a portion of said enclosure to prevent it from becoming unscrewed.

2,170,872
PROCESS FOR EXTRACTING CAROTINOIDS
David D. Peebles, Eureka, Calif.
Application November 25, 1935, Serial No. 51,424
3 Claims. (Cl. 87—28)



1. In a process for extracting carotinoids from cellular carotinoid-bearing materials, macerating the material, breaking down the cellular material by digesting the macerated material with alkali at a pressure substantially greater than atmospheric and a temperature substantially greater than 212° F., rapidly releasing the pressure upon said material, and then subjecting the digested material to solvent extraction for removal of carotinoids.

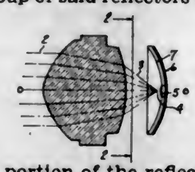
2,170,873
ELECTRICAL SYSTEM
Arnold F. Price, Hartsdale, N. Y., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application May 5, 1936, Serial No. 77,986
6 Claims. (Cl. 179—171)



5. In combination a space-discharge device comprising a cathode, an anode and a control electrode, a cathode-anode circuit, a cathode-control electrode circuit, non-ohmic resistance means common to said circuits, and additional means, a part only of which comprises non-ohmic resistance means in shunt with said first-mentioned means for maintaining said biasing potential substantially constant with said cathode-anode current variation, the non-ohmic resistance means each having a negative resistance-current characteristic.

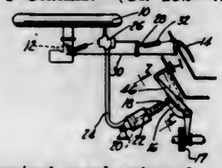
2,170,874
MULTICOLORED LENS
Charles D. Ryder, Covington, Ky., assignor to The National Colortype Company, Bellevue, Ky., a corporation of Kentucky
Application November 10, 1937, Serial No. 173,734
8 Claims. (Cl. 40—130)

1. In combination, a plurality of lenses and reflectors arranged in pairs so that light rays incident to the lenses will be focused on a sector of the reflector, a group of said reflectors having masks over the marginal faces of the reflectors, and another group of said reflectors having masks



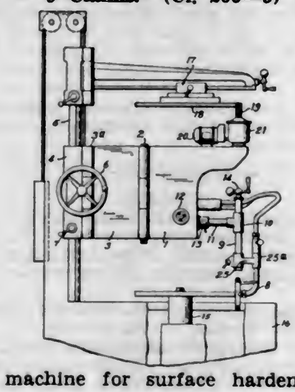
over the center portion of the reflectors, whereby light is reflected from distant sources by the first group of lenses and reflectors and light is reflected from relatively near sources by the second group of lenses and reflectors.

2,170,875
CLUTCH CONTROL MECHANISM
Roy S. Sanford, New York, N. Y., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application October 5, 1931, Serial No. 566,884. Divided and this application May 27, 1936, Serial No. 82,095
3 Claims. (Cl. 192—.01)



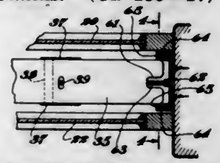
1. In a control mechanism for an automotive vehicle provided with brakes and a clutch, manually operated means for applying the brakes, power operated means for operating the clutch, and power operated means automatically operable, in the event of stopping of the engine, for making possible an operation of the clutch by said brake operating means as the brake is applied.

2,170,876
MACHINE FOR SURFACE HARDENING METAL ARTICLES
Albert Edward Shorter, Sheffield, England, assignor to The Linde Air Products Company, New York, N. Y., a corporation of Ohio
Application April 29, 1938, Serial No. 205,128
In Great Britain April 29, 1937
9 Claims. (Cl. 266—5)



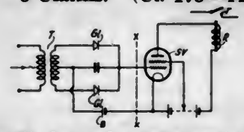
1. A machine for surface hardening metal articles wherein a heating device adapted to apply local heat to the surface of the work and a quenching or cooling device adapted to quench the heated zone for the purpose of hardening the same are mounted on a universally movable traversing device adapted to run along a track shaped to guide the carriage in such a way that the heating device traverses a predetermined path.

2,170,877
VENETIAN BLIND
Lester S. Simon, Larchmont, N. Y.
Application December 5, 1936, Serial No. 114,347
4 Claims. (Cl. 156—17)



1. In a Venetian blind, a slat having a notched end, and a lateral guide for the slat comprising three spaced ribs, the middle rib projecting into said notch, the outer ribs being positioned alongside the opposite outer edges of the slat, said ribs presenting surfaces of noise-deadening material.

2,170,878
AMPLIFIER FEEDBACK SUPPRESSION
Felix Strecker, Berlin, Germany, assignor to Siemens & Halske, Aktiengesellschaft, Berlin, Germany, a corporation of Germany
Application December 3, 1936, Serial No. 113,970
In Germany December 4, 1935
8 Claims. (Cl. 178—44)

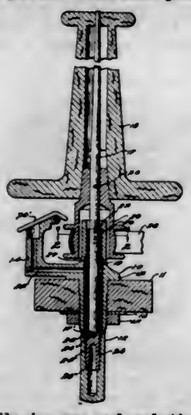


1. A circuit for echo suppression in a signal line comprising an input circuit, connected to said line, including a full-wave rectifier; a screen grid tube having a control grid connected to said rectifier, and a plate circuit; a relay winding in the plate circuit of said screen grid tube, and means for maintaining the grid of said screen grid tube biased substantially beyond cut-off the plate resistance of said screen grid tube being large compared to the impedance of said suppressor relay winding whereby the operating time lag of said relay is reduced.

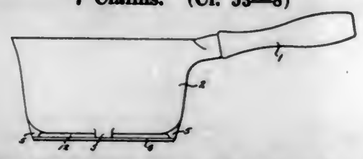
2,170,879
BOLSTER
John C. Tarbell, Springfield, Mass., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application April 3, 1937, Serial No. 134,721
1 Claim. (Cl. 308—149)

A bolster structure adapted to be insertably mounted as a unit in a spindle supporting bolster housing for journalling a spindle having a substantially cylindrical supported end portion comprising a substantially cylindrical sheet metal tubular body, a plug having a press fit in one end portion of said body and having an annular shoulder abutting the adjacent extremity of said tubular body and an end portion extending beyond the latter, said plug having a transverse wall provided

with a recess adapted to receive an end portion of said spindle for sustaining both axial and lateral thrusts of the latter, and a bushing mounted in the opposite end portion of said tubular body and adapted to cooperate with said plug for maintaining said spindle in spaced relation to the inner wall of said tubular body, said bushing and said plug comprising a porous compressed and sintered powdered metal mass having a substantial absorbed liquid lubricant content.



2,170,880
COOKING UTENSIL
Joseph G. Wagner, Sidney, Ohio, assignor to The Wagner Manufacturing Company, Sidney, Ohio, a corporation of Ohio
Application December 2, 1938, Serial No. 243,615
7 Claims. (Cl. 53—8)



1. In combination, a cooking utensil, a false bottom, and means on the lower portion of said utensil adapted to hold said false bottom in spaced relationship from the bottom of the utensil, said means being in the form of lugs arranged at widely spaced intervals so as to permit the circulation of air between the bottom of the utensil and the top of the false bottom, said lugs being located adjacent the periphery of the bottom of the utensil at the juncture of the side walls with the bottom of the utensil the peripheral length of said lugs being much less than the peripheral length of said spaces therebetween, and said utensil bottom and said false bottom being free of heat conducting connecting means therebetween inwardly of said periphery.

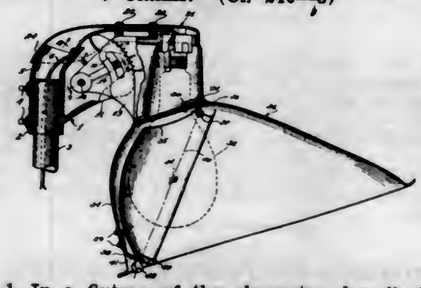
2,170,881
GAS ANCHOR
Richard A. Werts, Long Beach, Calif., assignor of one-third to Elwin B. Hall and one-third to Virgil P. Baker
Application February 9, 1938, Serial No. 189,598
9 Claims. (Cl. 103—220)

1. A gas anchor for use in combination with a tubing and a pump removably suspended therefrom, the anchor including a body forming a reservoir from which the pump receives its fluid, the upper portion of the reservoir being directly open to the well to receive fluid therefrom, the body having an opening in its lower end, means



suspending the body from the tubing, and a valve carried by the pump and normally closing said opening.

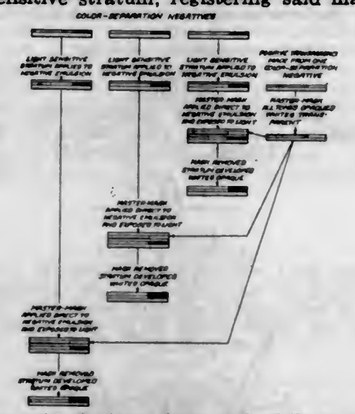
2,170,882
LIGHTING CONSTRUCTION
Marshall S. Wideroe, Northbrook, Ill., assignor to Benjamin Electric Mfg. Company, Des Plaines, Ill., a corporation of Illinois
Application May 5, 1937, Serial No. 140,792
7 Claims. (Cl. 240—3)



1. In a fixture of the character described, a diffusing reflector, a hood on said reflector and having a socket therein for supporting a lamp with its light source in said reflector and on substantially the axial line of said hood, a beam reflector having its upper end pivotally mounted in front of the axial line of said lamp and its lower end pivotally mounted on the opposite side of said axial line with the pivotal axis of said beam reflector extending substantially through said light source, said beam reflector having an opening for said lamp to extend therethrough and sufficiently large to permit pivotal adjustment of said beam reflector around said light source.

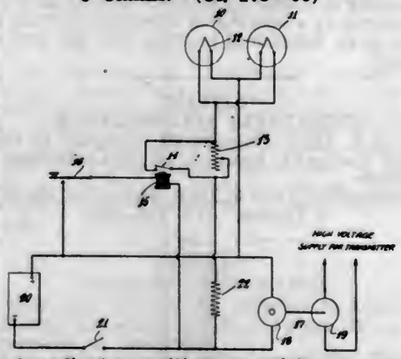
2,170,883
PHOTOGRAPHIC MASKING
William J. Wilkinson, Eastchester, N. Y., assignor to Miehle Printing Press and Manufacturing Company, Chicago, Ill., a corporation of Illinois
Application March 7, 1938, Serial No. 194,521
3 Claims. (Cl. 95—2)

1. In the process of masking a set of color-separation negatives of a subject, the steps of making a positive-transparency from one of said color-separation negatives, opaquing all tone portions of said positive-transparency leaving all whites transparent thereby providing an opaqued master-mask, coating the emulsions of a plurality of said color-separation negatives each with a light-sensitive stratum, registering said master-



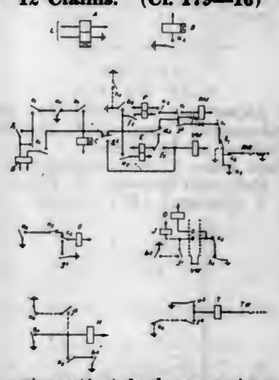
mask on said strata in turn and while so registered exposing the corresponding stratum to light through said master-mask, and developing and rendering the exposed parts of said strata opaque, whereby each such treated color-separation negative has its own individual mask affixed to its emulsion in proper register.

2,170,884
TELEGRAPH TRANSMITTER
Charles W. Winter, Jr., Coconut Grove, Fla., assignor to Pan American Airways Corporation, Jersey City, N. J., a corporation of Delaware
Application April 8, 1937, Serial No. 135,609
6 Claims. (Cl. 178—66)



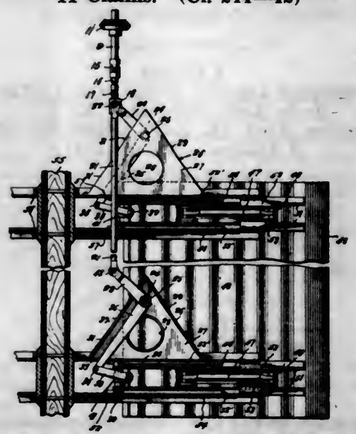
1. A radio transmitter comprising a vacuum tube having a filament, a rotatory power supply, a source of power connected to said rotatory power supply for energizing the same, connection between said source of power and the filament of said vacuum tube for heating the same, a resistor connected between said source of power and said filament for compensating for the variations in power supplied to said filament and to said rotatory power supply during operation of said transmitter, and means for short circuiting and electrically disconnecting said variable resistor during certain stages in the operation of the transmitter, whereby the frequency of relatively short signals emitted from said transmitter remains constant.

2,170,885
SELECTIVE SWITCH
Esmond Philip Goodwin Wright, London, England, assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application November 28, 1936, Serial No. 113,185
In Great Britain January 17, 1936
12 Claims. (Cl. 179—16)



1. In an automatic telephone system, a selector switch comprising a set of brushes, a bank of terminals, and a stepping magnet for advancing the brushes, an impulse relay associated with said switch for receiving directive impulses from subscribers' impulse senders, circuit means controlled by said relay in response to a train of more than a certain number of impulses from a subscriber's impulse sender for absorbing said certain number of the impulses without movement of the brushes and for operating said magnet in response to the succeeding impulses of the train to effect a desired selective movement of the brushes.

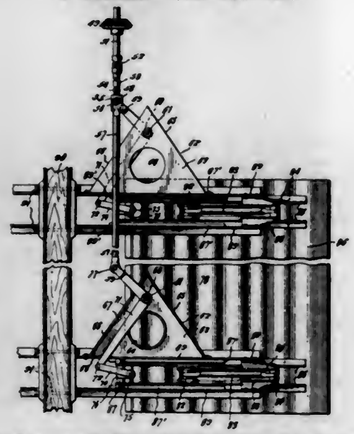
2,170,886
AIRFOIL MECHANISM
Edward F. Zaparka, Baltimore, Md., assignor to Zap Development Corporation, Baltimore, Md., a corporation of Delaware
Application May 31, 1933, Serial No. 673,730
Renewed December 19, 1936
11 Claims. (Cl. 244—42)



1. An airplane construction comprising means for affecting the flow around a wing to effect a change in the lift co-efficient thereof, a source

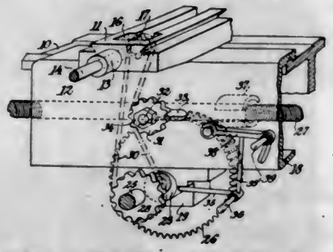
of power carried by the airplane, a screw-threaded shaft adapted to be driven by said source of power, an operating head in screw-threaded engagement with the screw-threaded portion of the shaft, bell crank linkages operated by the operating head to modify the position of the first named means and support means for the bell crank on which it is pivoted, said means formed with apertures through which the arms of the bell crank pass.

2,170,887
FLAP DEVICE
Edward F. Zaparka, Coraopolis, Pa., assignor to Zap Development Corporation, Baltimore, Md., a corporation of Delaware
Application June 1, 1933, Serial No. 673,911
Renewed October 13, 1936
6 Claims. (Cl. 244—42)



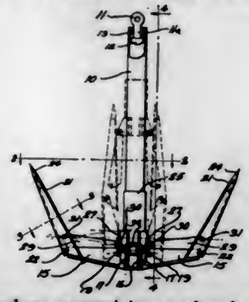
1. A flap operating mechanism for increasing the lift coefficient of the wings comprising a source of stored fluid under pressure, two cylinders in connection with said source, pistons in the cylinders, means operated by the pistons to move the flaps, the power supplied to the flap being sufficient to quickly bring it to operative position for emergency use, and box-like bracing means having apertures therein through which the means operated by the pistons extend.

2,170,888
POWERED CROSS FEED FOR LATHES
Jack Abel, Elmhurst, N. Y.
Application April 21, 1938, Serial No. 203,386
7 Claims. (Cl. 82—23)



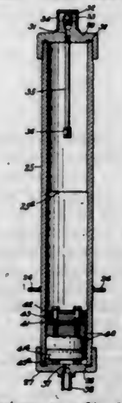
1. A lathe or the like, comprising in combination, a lead screw, a tool carriage having a cross feed spindle and a rotatable shaft in parallel spaced relation to the cross feed spindle, a rotatable bushing in which the shaft is eccentrically mounted, a worm wheel on said shaft adapted to be selectively moved into and out of engagement with the lead screw as the bushing is rotated, and drive belt means for transmitting rotation of the shaft to the cross feed spindle when the worm wheel is rotated by the lead screw.

2,170,889
ANCHOR
George S. Allin, Seattle, Wash.
Application August 22, 1938, Serial No. 226,034
7 Claims. (Cl. 114—208)



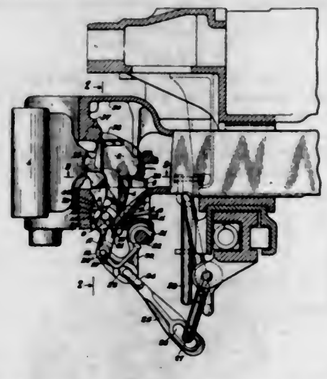
1. An anchor comprising a shank, a fluke arm hingedly fixed to the outer end of the shank for movement from a position lying adjacent the shank to a definitely limited extended position, a fluke hinged on the outer end of the fluke arm and adapted to lie along the shank when the shank arm is so disposed and to be moved to functional position when the arm is moved to extended position, a collar slidable along the shank, a stop on the shank for limiting the movement of the collar outwardly therealong, a toggle link pivotally connected at its ends, respectively, to the collar and to the fluke and adapted, when the collar is moved to position against said stop to operate as a toggle lock whereby to retain the fluke in its functional position and the arm extended.

2,170,890
REMOVABLE ACCUMULATOR
Harold F. Allen, Chicago, Ill., assignor to Link-Belt Company, Chicago, Ill., a corporation of Illinois
Application April 8, 1937, Serial No. 135,618
7 Claims. (Cl. 138—31)



1. In an accumulator, a cylinder, a piston movable in said cylinder, a body of inert gas under pressure enclosed by said cylinder and one side of said piston, an inlet passage in communication with the interior of the cylinder on the opposite side of said piston, means for maintaining a fluid under pressure in said passage and in the portion of the cylinder in communication therewith, said piston being free to move longitudinally in said cylinder in response to fluctuations of pressure in the portion of the cylinder in communication with said passage whereby to balance the pressures at opposite sides of the piston, and means for limiting the movement of said piston in said cylinder, including a stop associated with said piston and stop means comprising a shoulder formed in the lateral wall of the cylinder.

2,170,891
CAR COUPLER
Arthur J. Bazeley, Shaker Heights, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application March 28, 1936, Serial No. 71,414
19 Claims. (Cl. 213—127)

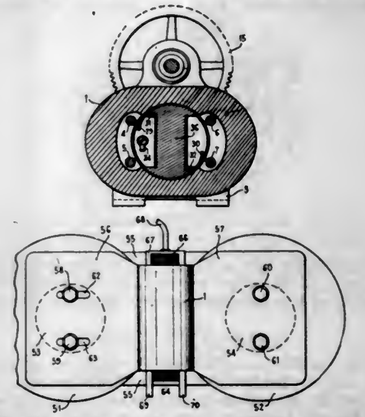


1. In a car coupler, a vertically movable lock having a downwardly extending leg, a rotor lift lever pivotally mounted on said coupler to the rear of said lock, a link connecting said lever and the leg of said lock, disengageable anti-creep means comprising a projection on said leg underlying a stop on said head and means normally preventing disengagement of said anti-creep means.

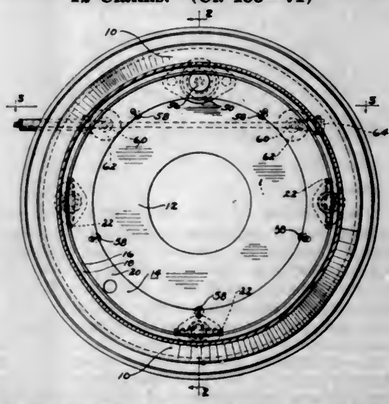
2,170,892
MAGNETOGENERATOR
Irvin W. Cox, Chicago, Ill., assignor to Associated Electric Laboratories, Inc., Chicago, Ill., a corporation of Delaware
Application April 4, 1936, Serial No. 72,713
8 Claims. (Cl. 171—209)

1. In a generator having an armature comprising a magnetic cylinder journalled for rotation about its longitudinal axis and having a winding groove extending longitudinally of the cylinder, and a strip of magnetic material laid in the winding groove and extending out over the finished winding, the exposed portion of said strip being so shaped that a smooth gradual diminution of flux occurs as the trailing edge of the associated inter-groove portion of the armature is rotated away from a pole shoe of the generator.

2. The method of magnetiding a hollow body of permanent-magnet material which comprises applying a magnetizing force across the body from without and thereafter applying an auxiliary magnetizing force to the body from within to shift the developed poles toward the inner surface.



2,170,893
BRAKE
David L. Gallup, South Bend, Ind., assignor to Bendix Products Corporation, South Bend, Ind., a corporation of Indiana
Application November 20, 1935, Serial No. 50,751
12 Claims. (Cl. 188—71)

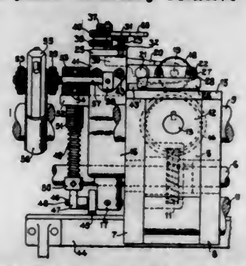


1. A brake comprising a drum, a rigid annular friction element, means to shift the friction element axially of the brake against the drum to apply the brake, a backing plate, and laterally adjustable generally triangular shaped means mounted on the backing plate and anchored to the friction element to take the torque of the friction element and to further apply said friction element to the drum at points in spaced relation other than the point of initial application.

2,170,894
SHEET-FEEDING APPARATUS
Edwin W. Goodwin, New Rochelle, N. Y., assignor to Dexter Folder Company, New York, N. Y., a corporation of New York
Application May 21, 1938, Serial No. 209,215
6 Claims. (Cl. 271—59)

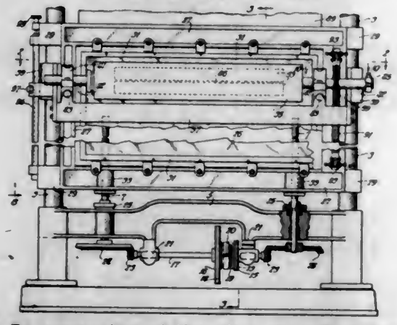
1. In a side registering mechanism, a plunger, means for vertically reciprocating the plunger,

and a sheet engaging member mounted on the plunger to yield vertically relative thereto each



time said member is moved into engagement with a sheet to be side registered, whereby undue pressure of the member on the sheet is eliminated.

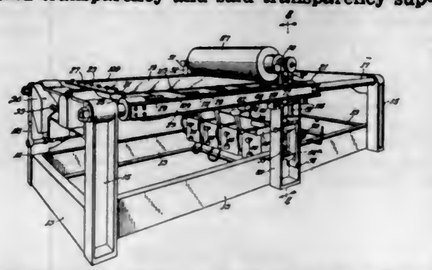
2,170,895
TRANSFER MACHINE
Charles L. Henderson, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Application March 13, 1937, Serial No. 130,647
14 Claims. (Cl. 95—73)



2. In apparatus of the class described, means for supporting a printing cylinder for rotatable movement, means for supporting a photographic plate transparency for rectilinear movement in tangential contact with said cylinder, means for simultaneously rotating said cylinder and for moving said plate in tangential contact therewith, and means including a gear keyed to said cylinder and an adjustable rack rigidly supported upon said support means for said transparency for permitting the accomplishment of relative differences between the peripheral speed of said cylinder and the linear speed of said transparency during the operation of said apparatus.

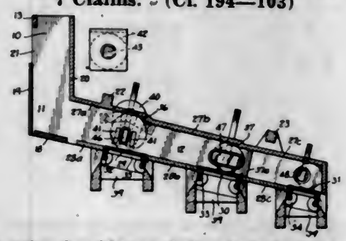
2,170,896
TRANSFER MACHINE
Charles L. Henderson, Appleton, Wis., assignor to Paper Patents Company, Neenah, Wis., a corporation of Wisconsin
Application January 10, 1938, Serial No. 184,180
17 Claims. (Cl. 95—73)

7. In apparatus of the class described, means for supporting a printing cylinder for rotatable movement about a horizontal axis, means including a flat, relatively rigid plate member for supporting a photographic transparency for horizontal, rectilinear movement beneath and in tangential contact with said cylinder, means for longitudinally moving said plate member and transparency while said transparency is in tangential contact with said cylinder, means for creating sufficient pressure along the line of tangential contact between said cylinder and said transparency to cause said cylinder to be rotated in response to longitudinal movement of said transparency and said transparency sup-



port plate solely because of the frictional contact therebetween, said last mentioned means including at least one elongated presser member arranged to engage the under surface of said transparency support plate adjacent said line of tangential contact.

2,170,897
COIN CLASSIFIER AND SLUG DETECTOR
Fairfield W. Hoban, New York, N. Y., assignor to Stewart & McGuire, Inc., New York, N. Y., a corporation of New York
Application September 5, 1936, Serial No. 99,554
7 Claims. (Cl. 194—103)

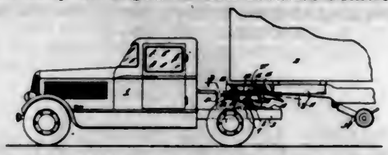


1. A coin classifier and slug detector comprising a fixed plate, a movable plate hinged to the fixed plate and pressed toward it, the plates being spaced and disposed to form a coin chute along which coins may roll and having stops which determine the maximum diameter of coins or slugs to be accepted by the portion of the chute therebeyond, discontinuous bottom flanges carried by one of the plates, coin scales carried by the fixed plate and having platforms between the flanges to provide a bottom wall for the chute, each scale being adapted to be tripped only by a coin of sufficient weight, the movable plate having slug ejectors above each platform and normally behind the path of the coin, the ejectors moving forwardly to engage slugs or underweight coins on the platforms and shift them off, and a coin chute disposed below each scale to receive coins discharged thereby and out of the path of coins or slugs discharged by the corresponding ejector.

2,170,898
STABILIZED COUPLER FOR TRACTOR DRAWN TRAILERS
George Palmer Humphrey, Mount Vernon, N. Y.
Application February 10, 1938, Serial No. 189,743
5 Claims. (Cl. 280—33.1)

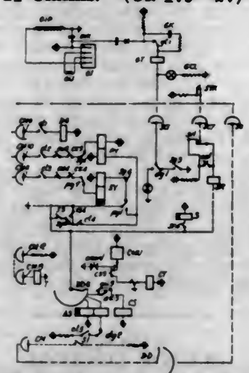
1. In coupler mechanism for the purposes described, a tractor carried fifth-wheel means in-

capable of rotative movement in horizontal plane, a king-pin releasably interengageable with said fifth-wheel means in non-rotative relation thereto, a trailer carried liquid charged chambered body arranged in non-rotative relation to



the trailer, said chambered body having bearings to rotatably support said king-pin, and a valved check-plate within said chambered body, said check-plate being fixedly related to said king-pin.

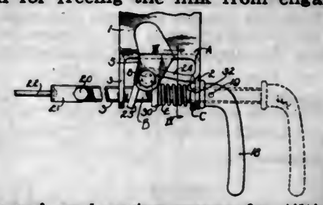
2,170,899
TELEPHONE SYSTEM
Horace Edgar Humphries and Bernard Anthony Hensler, London, England, assignors to Siemens Brothers & Company Limited, London, England
Application March 11, 1937, Serial No. 130,390
In Great Britain March 20, 1936
11 Claims. (Cl. 179—27)



1. In a telephone system, an operator's position, a plurality of trunks arranged in groups accessible from said position, each trunk having trunking switches associated therewith, a signalling device at the operator's position common to all said groups, means controlled by the operator at said position for indicating a desired trunk group, and means for causing said signalling device to give an indication of the condition of said trunk group before any of the said switches associated therewith are operated.

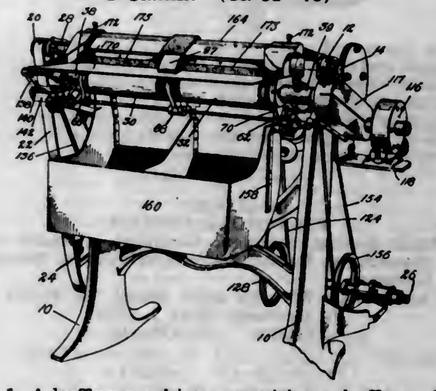
2,170,900
BRAKE LEVER CONSTRUCTION
Herbert S. Jandus and Charles F. Purdy, Detroit, Mich., assignors, by mesne assignments, to Houdaille-Hershey Corporation, Detroit, Mich., a corporation of Michigan
Application April 1, 1938, Serial No. 199,376
6 Claims. (Cl. 74—531)

1. A brake operating device for automotive vehicles including a bracket adapted to be mounted behind the instrument board of a vehicle and having spaced legs, a rod supported by said legs for endwise and oscillatory movement, a locking link rotatably supported between said legs and having an opening embracing the rod with edges of the opening effective for frictional grip of the rod when the link is tilted, means operable by rotative movement of the rod in one direction for freeing the link from engagement



with the rod, and spring means for tilting said link into holding engagement with the rod and for normally restraining said rod against rotative movement in said one direction.

2,170,901
BUFFING MACHINE
Bernhardt Jorgensen, Marblehead, Mass., assignor to United Shoe Machinery Corporation, Paterson, N. J., a corporation of New Jersey
Application January 22, 1937, Serial No. 121,853
5 Claims. (Cl. 51—78)

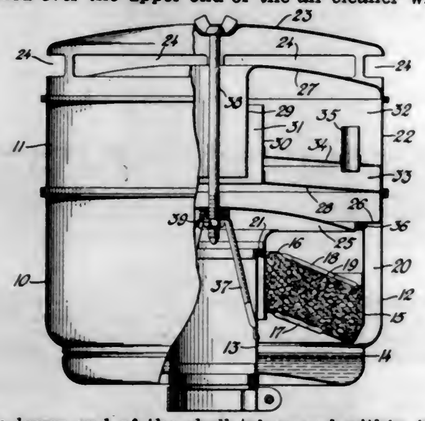


1. A buffing machine comprising a buffing roll, a feed roll having a work-engaging surface of relatively high frictional characteristics, a polished metal roll, said feed roll and said metal roll being constructed and arranged to grip a work piece between them with the metal roll engaging that surface of the work piece which is to be buffed, means for driving said feed roll, and means for driving said metal roll at a peripheral speed different from that of said feed roll to effect a burnishing action upon the surface of the work piece.

2,170,902
CARBURETOR AIR CLEANER AND SILENCER ASSEMBLY
Herbert G. Kamrath, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application October 28, 1936, Serial No. 107,947
3 Claims. (Cl. 183—15)

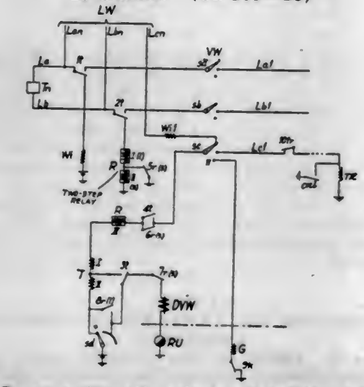
3. In an air cleaner and silencer assembly: an air cleaner which includes a cup-like member, a tube which constitutes the air outlet duct of the assembly secured in an opening in the bottom of the cup-like member, a filter element from which air passes into the tube disposed within the cup-like member with its outer side wall spaced from the side wall of the cup-like member so that it defines therewith an aperture through which air is conducted to the filter element; and a silencer

which includes a shell, upper and lower heads for the shell, orifices in the lower head near its outer edge, and an air inlet orifice for the assembly from which air passes through the shell to the orifices in the lower head; the silencer being disposed over the upper end of the air cleaner with



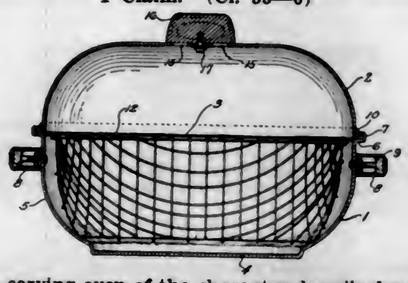
the lower end of the shell telescoped within the upper end of the side wall of the cup-like member and the lower head seated on the outer side wall of the filter element with the orifices in it opening into the upper end of the aperture defined by the outer side wall of the filter element and the side wall of the cup-like member.

2,170,903
TELEPHONE SYSTEM
Ulrich Kesten, Staaken, Germany, assignor to Siemens & Halske Aktiengesellschaft, Berlin, Germany
Application May 29, 1936, Serial No. 82,390
In Germany June 1, 1935
10 Claims. (Cl. 179—18)



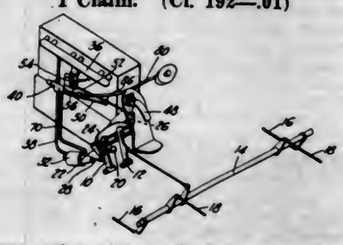
1. In an automatic telephone system, an automatic switch having access to a plurality of trunk lines, a cut-off relay and a two-step line relay in said switch, means responsive to the initiation of a call for operating said line relay in its first step, means controlled by said line relay in its first step to operate said switch to find an idle trunk line, means for operating said line relay in its second step and also said cut-off relay when an idle line is found, and means for automatically deenergizing said cut-off relay while holding said line relay fully operated in the event that dialling over the seized trunk line is delayed.

2,170,904
SERVING OVEN
Ralph N. Kircher, West Bend, Wis., assignor to West Bend Aluminum Company, West Bend, Wis., a corporation of Wisconsin
Application August 6, 1938, Serial No. 223,461
1 Claim. (Cl. 53—6)



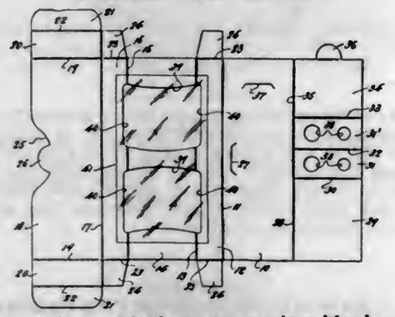
A serving oven of the character described comprising complementary base and cover sections, each including a bowl-like body portion open at one end and closed at its other end by an integral end wall, the margins of the open ends of the sections having interfitting formations whereby in use the cover section is securely supported and centered on the base section, said base and cover sections being constituted of metal of high thermo-conductivity, a wire basket disposed in the base section and having the corner around its bottom engage with the sloping wall of the bowl-like body of the base section to maintain the foraminated walls of the basket otherwise out of contact with the walls of the base section, said basket being adapted to receive food and maintain the same spaced from and out of direct contact with the walls of the base section and yet exposed to the heat conducted through or radiating from the walls of the sections, and handles of insulating material projecting outwardly from the exterior of the base section to facilitate the handling of the oven.

2,170,905
CLUTCH CONTROL
Victor W. Kliesrath, South Bend, Ind., assignor to Bendix Aviation Corporation, South Bend, Ind., a corporation of Delaware
Original application November 30, 1932, Serial No. 645,103. Divided and this application April 17, 1937, Serial No. 137,416
1 Claim. (Cl. 192—.01)



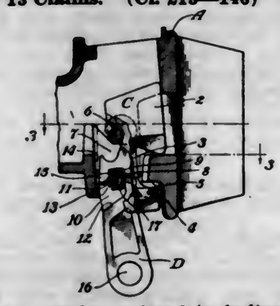
In an automotive vehicle provided with a clutch, a throttle and an accelerator, linkage interconnecting the throttle and accelerator, power means for operating the clutch including a motor and a valve for controlling the operation of said motor, a foot operated member mounted in the floor board of the driver's compartment, and valve controlling means actuated by said member, for rendering said control valve inoperative to control the clutch engaging and disengaging operations of said motor, said means including a spring normally biasing said foot operated member to a position to render said control valve inoperative, the parts being so constructed and arranged that upon depressing said foot operated member, said valve controlling means is actuated to then make possible an operation of the valve by the accelerator to control the operation of said motor.

2,170,906
COLLAPSIBLE DISPLAY CARTON
August A. Mertz, Richmond Hill, N. Y., assignor to P. L. Andrews Corporation, Brooklyn, N. Y., a corporation of New York
Application February 10, 1938, Serial No. 189,735
3 Claims. (Cl. 206—44)



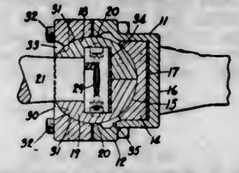
1. A carton made from a one piece blank comprising foldably related bottom, top and side sections and end closure elements, a holder section contiguous to a margin of said bottom section and connected therewith so as to be foldable to superimposed relation to the interior face thereof, said holder section being scored to define connected holder panels and for foreshortening to erect said panels to form an article receiving and supporting means upstanding from the plane of said bottom section, said holder section having a lock-tongue projecting from a margin thereof, and said bottom section having a slit therein to receive said lock-tongue to thereby retain said holder section in foreshortened holder panel erecting condition.

2,170,907
CAR COUPLER
William J. Metzger, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application March 11, 1936, Serial No. 68,154
13 Claims. (Cl. 213—146)



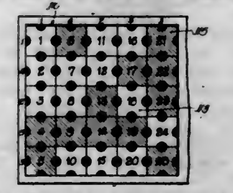
1. In a car coupler, a head including a ledge, a knuckle, a lock element for said knuckle, said lock element having a portion projecting from the bottom thereof and normally extending beneath said ledge to form an anti-creep for the lock element, said lock element being adapted to be moved rearwardly so as to withdraw said projecting portion from beneath said ledge, a lifter element for said lock element and means preventing rearward movement of said lock element when the latter is in locking position, said means comprising a projection on one of said elements and a recess in the other of said elements receiving said projection.

2,170,908
COUPLER SHANK AND YOKE CONNECTION
William J. Metzger, Cleveland, Ohio, assignor to National Malleable and Steel Castings Company, Cleveland, Ohio, a corporation of Ohio
Application August 13, 1937, Serial No. 158,859
6 Claims. (Cl. 213—14)
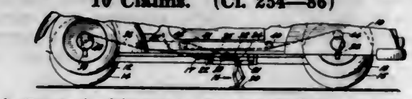


1. A coupler shank having an enlarged end portion, a ball member on said shank for pivotal connection to a yoke, said member comprising a plurality of sections each having a recess receiving a part of said enlarged end portion, the outer surfaces of said sections when assembled with said shank forming the surface of a sphere, and means including said recess and said enlarged end portion and within the confines of said last named surface for securing said sections together in such a manner that said ball member is immovable relative to said shank.

2,170,909
GAME
Theodore Moren, Chicago, Ill.
Application May 16, 1938, Serial No. 208,150
5 Claims. (Cl. 273—132)



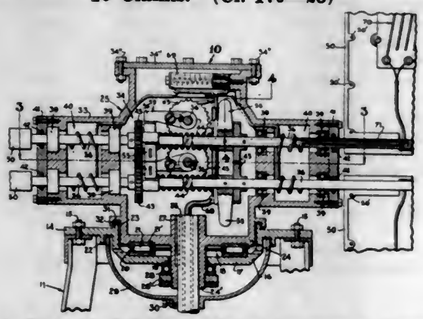
1. A checkerboard magic-square game including a complete set of numbered separate pieces each displaying its same individual number on both of its opposite faces, one set of said numbered faces having indicia differentiating them from their opposite numbered faces, whereby said pieces may be arranged in upright columns and in horizontal rows all with the like faces disposed up and one such piece may be turned over in each of one less than the total number of columns, said turned-over pieces being in different rows, leaving one column and one row intersecting in which no pieces have been turned over, and all of said pieces in said last-mentioned intersecting column and row may be turned over except the one piece at such intersection, thus setting up a problem of rearranging said turned and unturned pieces in checkerboard-design with the sum of the numbers of the pieces in each upright column and in each horizontal row the same.

2,170,910
COMBINATION LIFTING JACK AND WHEEL LOCKING ARRANGEMENT FOR AUTOMOBILES OR LIKE VEHICLES
Paul Ostruk, New York, N. Y.
Application May 25, 1937, Serial No. 144,569
10 Claims. (Cl. 254—86)



1. In a jacking arrangement for an automotive or like vehicle of the class described comprising a lazy tong jack, said jack made operable by means of a piston inside a hydraulic cylinder, a cam arm exterior to said cylinder and pivotally connected thereto and being made operable by the translatory movement of said piston, said cam arm also operatively connected to flexible cables for the purpose of locking the wheel axles to the chassis of said vehicle into place, said cam arm intermediately operative concurrently with the operation of the jack aforesaid.

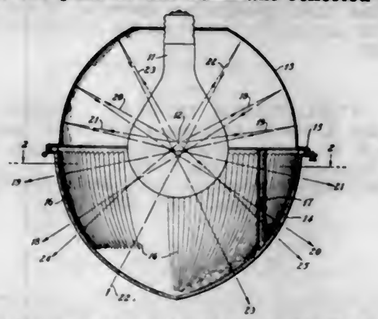
2,170,911
WIND MOTOR
Hardy H. Raulerson, Long Beach, Calif.
Application August 15, 1938, Serial No. 224,874
10 Claims. (Cl. 170—28)



1. In a wind driven rotor, a housing, a plurality of pairs of parallel radial shafts rotably mounted in said housing, said shafts being in aligned opposed pairs, means connecting the shafts of each pair and adapted to cause the two shafts of each pair to rotate in the same directions, torque means connecting the free ends of the coaxial shafts and a vane on each shaft.

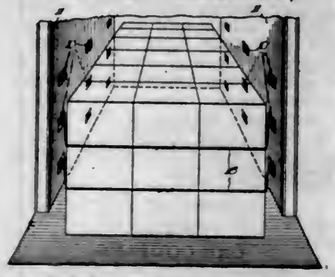
2,170,912
LUMINAIRE
Thomas W. Rolph, Newark, Ohio, assignor to Holophane Company, Inc., New York, N. Y., a corporation of Delaware
Application July 28, 1936, Serial No. 92,975
8 Claims. (Cl. 240—93)

1. A luminaire comprising a light source, a reflector above the source, and a refractor closing the bottom opening of the reflector, the reflector being adapted to produce a redistribution of light in vertical planes and directing the dominant reflected light toward the refractor at high angles below the horizontal and the refractor being generally concave toward the light source and having vertical prisms which, without sensibly affecting the vertical distribution, produce a redistribution of both direct and reflected light in horizontal directions and provide an asymmetric distribution of light with regions of maximum and minimum intensity, the refractor being supplemented by an internal light deflector spaced substantially from the opposed refractor wall and extending in a generally vertical direction from the top of the refractor down across the path of the dominant reflected rays



in a region in which the refractor normally produces a minimum intensity so as to intercept both direct and reflected light in this region and screen the opposed portion of the refractor surface to divert light which would otherwise fall on the area screened and augment the asymmetric distribution of light.

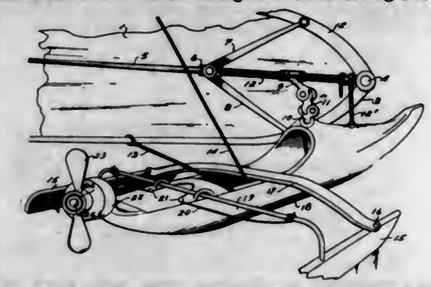
2,170,913
CAR WALL ANCHORAGE FOR CARGO BINDERS
Martin L. Rowe, Chicago, Ill., assignor to The Gerrard Company, Inc., Chicago, Ill., a corporation of Delaware
Application April 9, 1936, Serial No. 73,396
2 Claims. (Cl. 105—369)



1. In a freight compartment having an end wall and two opposed side walls, objects loaded in the compartment against the end wall, binder-fastening devices permanently mounted on the side walls opposite each other, and a binder secured at its ends in said devices and tensioned across the compartment with its intermediate portion positioned under pressure against the objects loaded in the compartment.

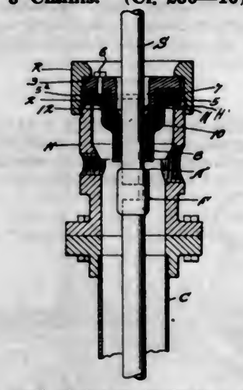
2,170,914
RIGGING
Rudow Rummler, Chicago, Ill.
Application January 14, 1935, Serial No. 1,722
9 Claims. (Cl. 114—39)

1. A rigging for sailing craft, comprising a supporting hull, a mast structure mounted thereon, a sail of substantially triangular form, supported by said mast structure with a universal joint connection therewith arranged to support the sail in horizontal position centrally over the hull with the apex of the sail forward and to allow the sail to tilt down forward and to oscillate laterally, restraining means forward of the mast structure for limiting and controlling move-



ments of the sail, said sail having its center of area rearward of said universal joint, and sheets for effecting lateral oscillation of the sail.

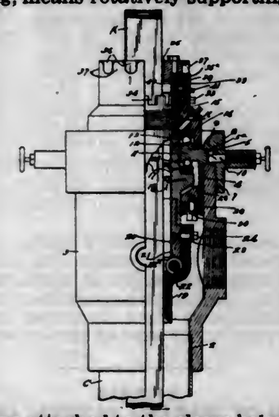
2,170,915
COLLAR PASSING PRESSURE STRIPPER
Frank J. Schweitzer, Orange, Calif.
Application August 3, 1937, Serial No. 157,141
8 Claims. (Cl. 286—16)



1. An oil well stripper including a housing, a cap plate removably secured to the housing and having a centric, reduced open-bore hub through which a shouldered string may pass, a rubber packing body externally fitting the hub and having an elongated nipple projecting axially from the inner end of the hub and being normally of smaller bore diameter than the hub bore and unlined so as to directly contract on a given string section passing through the hub and being expansible by a passing string shoulder, and a resilient expansive barrier interposed between the inner end of the hub and the near end of the nipple and movably bearing on the end of the hub and projecting inwardly radially thereof whereby to prevent flow of the rubber into the bore of the hub under fluid or string shoulder pressure; said barrier being free to expand when a string shoulder passes in or out.

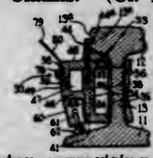
2,170,916
ROTARY COLLAR PASSING BLOW-OUT PREVENTER AND STRIPPER
Frank J. Schweitzer and William D. Shaffer, Brea, Calif.
Application May 9, 1938, Serial No. 206,792
14 Claims. (Cl. 255—1)

1. A well string, rotary blow-out preventer and stripper including a rotal sleeve having an unobstructed bore to pass shoulder parts of the string, collar means co-axially, co-rotatively and removably connected to the sleeve to axially pass a part of the string between shoulders thereof and engageable by an upwardly moving shoulder of the string, means rotatively supporting the sleeve



and means attached to the sleeve below the collar and operative resiliently to contractively seal on said string part in the sleeve and which is adapted to be expanded by the passing shoulders and to seal thereon, and barrier means interposed between the sleeve and said resilient means for preventing blow-out of the sealing means.

2,170,917
RAIL LUBRICATING DEVICE
Charles Stern, Jersey City, N. J., assignor to Ardco Manufacturing Co., Hoboken, N. J., a corporation of Delaware
Application July 11, 1935, Serial No. 30,793
3 Claims. (Cl. 184—3)

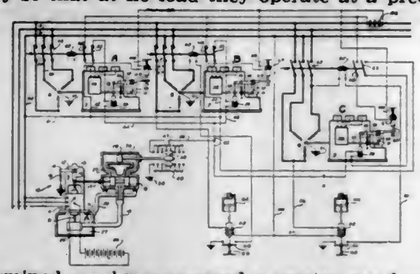


1. A lubricator comprising a member adapted to be fixed to the side of a rail and having a portion formed with an elongated slot located adjacent the head of the rail, said member being formed with recesses adjacent the ends thereof and on opposite sides of said slot, forming substantially horizontal ledges and vertical shoulders, flat plates within said recesses located on opposite sides of said slot and resting on said horizontal ledges and engaging said vertical shoulders, fastening means extending through registering openings in said plates and a member for attaching said plates to said member, said plates and member having registering vertical slots, and means for fastening said member to the web of said rail extending through said slots.

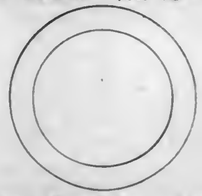
2,170,918
CONTROL FOR MULTIUNIT POWER GENERATING SYSTEMS
Chester F. Strong, New York, N. Y.
Application November 19, 1938, Serial No. 241,369
13 Claims. (Cl. 290—4)

1. A power generating system comprising, in

combination, a plurality of engine driven alternating current generating units, electrical means for connecting an incoming unit to a main load line, means for controlling each engine individually so that at no load they operate at a predetermined synchronous speed, a master speed controller operated in synchronism with the line current, and supplemental force producing means controlled by said master controller for causing each individual unit when connected to the main line to operate under load at synchronous speed.



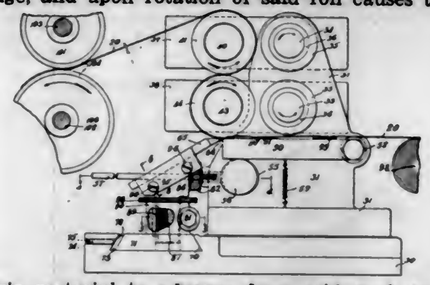
2,170,919
METHOD OF MAKING RUBBER ARTICLES
Arthur F. Thener, St. Louis, Mo., assignor to Cupples Company, St. Louis, Mo., a corporation of Missouri
Application September 28, 1936, Serial No. 102,960
2 Claims. (Cl. 18—53)



1. In the art of making rubber articles, the method which comprises forming a vulcanized rubber article more than 10 per cent harder than the predetermined hardness of the finished article, and more than 5 per cent smaller than the predetermined dimensions of the finished article, thereafter enlarging and at the same time reducing the hardness of said vulcanized rubber article, said simultaneous operations being performed by subjecting the relatively small vulcanized article to a drastic treatment in oil for a period longer than fifteen minutes, until it attains the predetermined hardness and dimensions of the finished article.

2,170,920
APPARATUS FOR SKIVING STRIP MATERIAL
Theodore J. Boecker, Melrose, Mass., assignor to Haley Cate Rockwood Company Inc., Everett, Mass., a corporation of Massachusetts
Application February 17, 1938, Serial No. 191,018
5 Claims. (Cl. 12—1)

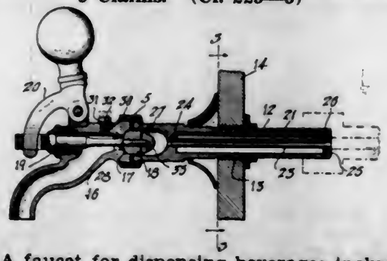
1. Apparatus for skiving strip material comprising a work support, a knife edge located adjacent one end of said work support, and a combined presser and feed roll mounted for rotation about an axis which is substantially parallel to the work supporting surface of the work support, and which axis is located in a plane which substantially coincides with the knife edge end of said work supporting surface and is substantially perpendicular thereto, whereby the periphery of said roll engages one face of the strip material and presses the opposite face thereof against said work supporting surface adjacent said knife edge, and upon rotation of said roll causes the strip material to advance from said work supporting surface across and beyond said knife edge.



2,170,921
PRODUCT FOR THE TREATMENT OF THE ALIMENTARY CANAL
Mortimer Bye, Cincinnati, Ohio
No Drawing. Application November 15, 1934, Serial No. 753,183
2 Claims. (Cl. 167—56)

1. A dry edible cooky comprising approximately equal parts of agar-agar and mineral oil, and a binder.

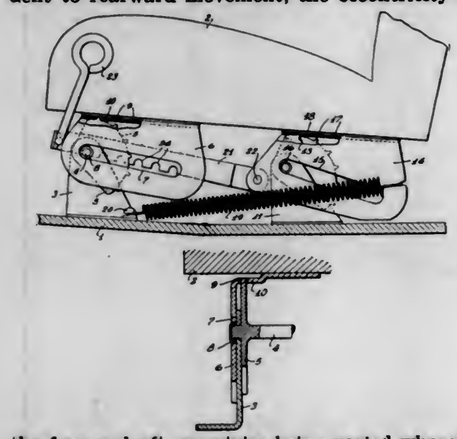
2,170,922
BEER-DISPENSING FAUCET
Herman H. Harr, Newark, N. J.
Application November 18, 1935, Serial No. 50,259
9 Claims. (Cl. 225—5)



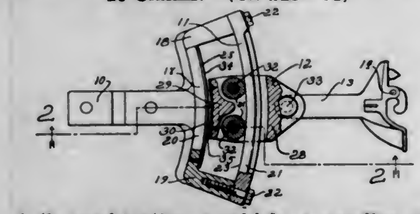
1. A faucet for dispensing beverages including a casing having a shank formed with an opening with a recess at the bottom of said opening and a rabbet at the outer end thereof, a beverage conducting tube having one end seated in said recess and a head at its other end seated in said rabbet with the intermediate portion of the tube in spaced relation to the walls of the opening in the shank, a passage in said casing communicating with said tube and having a valve seat, and a valve head for cooperating with said seat, and means for operating said valve head.

2,170,923
SEAT TRACK AND RISER
Rex C. Jacobs, Detroit, Mich.
Application February 27, 1937, Serial No. 128,245
8 Claims. (Cl. 155—14)

1. A seat track and riser comprising relatively movable elements adapted for attachment to a support and to a seat respectively, and fore and aft eccentrics rotatably supported by one of the movable elements and having rolling contact with the other of said movable elements, said eccentrics comprising rolling means supporting said seat for forward and rearward adjustment movement, and said eccentric members being formed whereby they elevate the seat incident to forward movement and lower the seat incident to rearward movement, the eccentricity of the fore and aft eccentrics being varied whereby the rear edge of the seat elevates more rapidly and lowers more rapidly than the forward edge incident to forward and rearward movements respectively.

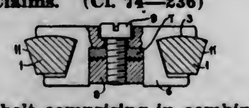


2,170,924
VEHICLE DRAFT MEANS
Robert N. Janeway, Detroit, Mich., assignor to Chrysler Corporation, Highland Park, Mich., a corporation of Delaware
Application January 2, 1937, Serial No. 118,764
16 Claims. (Cl. 213—74)



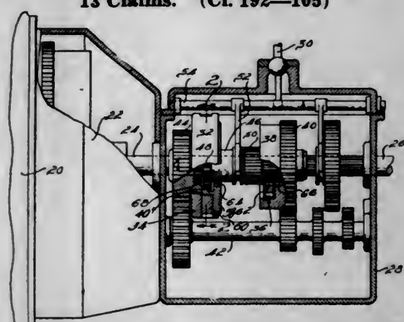
1. In combination, a vehicle, a coupling member draft means pivotally secured to said coupling member, and means securing said draft means to said vehicle, said last named means causing said draft means to be movable laterally of said vehicle with a relatively small amount of friction while exerting a generally longitudinal force on said vehicle in one direction and to be laterally movable thereof with a relatively greater amount of friction while exerting a generally longitudinal force on said vehicle in the opposite direction.

2,170,925
BELT DRIVE
Leonhard Kellenberger, St. Gallen, Switzerland
Application July 16, 1937, Serial No. 153,960
In Germany July 28, 1936
2 Claims. (Cl. 74—236)



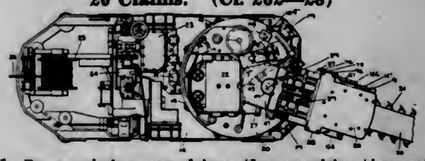
2. A driving belt comprising in combination, a plurality of straight cross-stays each formed in a single piece, a mouth-like three-sided slot of invariable size in each end of each cross-stay, a slot of invariable size in the underside of each cross-stay, two unmutilated, interchangeable identically cross-sectioned standard endless elastic wedge driving belts each having two driving faces one of which abuts against the correspondingly inclined inner end of one slot in each cross-stay, the said cross-stays and slots being the sole means of keeping the said driving belts spaced laterally apart, a cross-stay connecting and holding belt spaced laterally apart from the driving belts and engaging the slot in the underside of each cross-stay, a screw extending through each cross-stay and connecting and holding belt and a nut situated in the slot in each cross-stay and engaged by the respective screw.

2,170,926
AUTOMATIC TRANSMISSION
Rex E. Keller, Beverly Hills, Calif.
Application March 26, 1934, Serial No. 717,380
Renewed January 27, 1939
13 Claims. (Cl. 192—105)



1. In an automatic transmission including an automatically operable centrifugal clutch having members thereof operatively associated with and separately driven by the driving and driven shafts of said transmission, centrifugally operable means operable for connecting said clutch members and provided with means operable for preventing the operation of said centrifugally operable means until the rotative speeds of said clutch members are approximately synchronous, and auxiliary means continuously effective to prevent the operation of said centrifugal clutch until the members thereof while yet separately driven are rotating at a substantially synchronous rate.

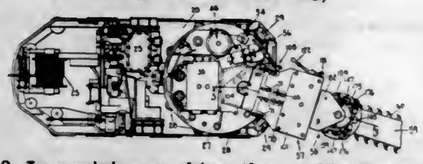
2,170,927
MINING MACHINE
Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application February 14, 1933, Serial No. 656,697
Renewed November 21, 1938
20 Claims. (Cl. 262—28)



1. In a mining machine, the combination with

a truck adapted to travel along a trackway, of a radial supporting arm on said truck movable bodily therewith, an overhanging guide support depending from the outer end of said arm, an elongated kerf-cutter, a cutter head for said kerf-cutter, a four-cornered guide on said guide support, four-cornered means on said head including a pair of non-friction rollers for engaging said four-cornered guide to adjust said kerf-cutter rectilinearly, and mechanism comprising a single lifting shaft for effecting rectilinear adjustment vertically of said kerf-cutter to horizontal planes.

2,170,928
MINING MACHINE
Nils D. Levin, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application January 3, 1936, Serial No. 57,376
Renewed June 13, 1939
20 Claims. (Cl. 262—28)



2. In a mining machine, the combination with a main frame, of a turn-over head supported from said main frame on a neck extending longitudinally from said main frame, a collar on said head pivotally mounted on said neck, said neck being grooved peripherally, a worm gear mounted in said groove, a worm co-operating with said gear and carried by said head and which when rotated causes rotation of said head about said neck, a retaining bracket carried by said collar and projecting into said groove to prevent longitudinal movement of said head relative to said neck, and means for operating said worm.

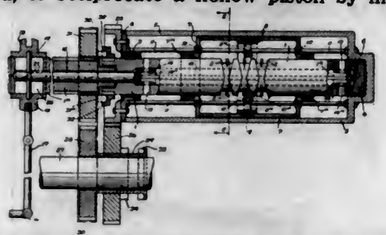
2,170,929
TAMPING PLUG
Alfred Louis Madill, Vancouver, British Columbia, Canada
Application November 23, 1937, Serial No. 176,069
4 Claims. (Cl. 102—11)



1. A tamping plug comprising three wedge shaped sections coacting to form a substantially cylindrical body when assembled and consisting of one centre and two outer sections, the centre section being formed with a sheath of relatively stiff material filled with paper pulp.

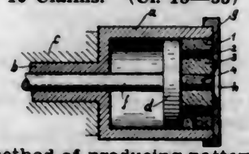
2,170,930
TRANSMISSION APPARATUS
Thomas Watson Paterson, Aigburth, Liverpool, England
Application June 15, 1936, Serial No. 85,190
In Great Britain June 22, 1935
4 Claims. (Cl. 192—59)

1. Apparatus for the transmission of power, wherein a driving shaft, from a prime mover, is provided with coincident right and left hand screw-threads, adapted, when said shaft is rotated, to reciprocate a hollow piston by means



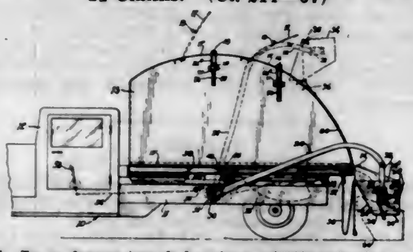
of a nut pivotally anchored within the piston and operatively associated with said screw-threads; and said piston being held against rotary motion within a cylinder in such manner as to not rotate without carrying the latter with it.

2,170,931
METHOD FOR THE PRODUCTION OF PATTERNED OBJECTS FROM POWDERED MATERIALS AND THE LIKE
Hans Schäfer, Wuppertal-Barmen, Germany
Application June 14, 1937, Serial No. 148,161
In Germany June 17, 1936
10 Claims. (Cl. 18—55)



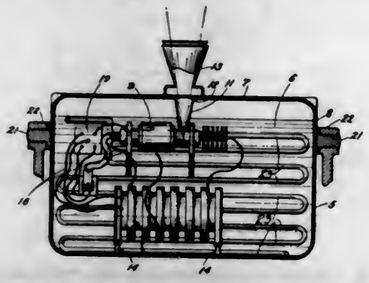
1. In a method of producing patterned objects, having the pattern extending throughout the thickness of the object from face to back from moulding powders of all kinds, colour and granulation, the steps of producing by centrifugal action, in a cylindrical mould, successive concentric layers of said powders, each of a different colour, and compressing said layers longitudinally; removing the so-formed object from the mould and then applying lateral pressure transversely to the axis of said layers to form an oval coherent body.

2,170,932
DUMP TRUCK AND LOADER THEREFOR
William Venema, Cicero, Ill.
Application February 12, 1937, Serial No. 125,397
11 Claims. (Cl. 214—67)



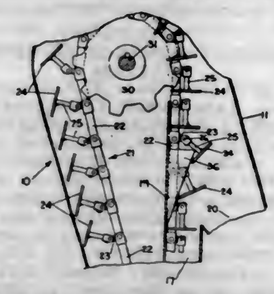
1. In a dump truck having a tilting body and a bucket loader for loading said body, the combination with a single source of power, of a power-actuated member operable by said single source of power, means for tilting said body, means for operating said bucket loader, and instrumentalities for selectively operatively connecting said power-actuated member with either one of said means for operative movement thereof independently of the movement of the other of said means, said bucket loader being supported on the chassis of the dump truck for movement independent of the movement of said truck body.

2,170,933
CONTINUOUS DUTY X-RAY UNIT
Wilbur S. Werner, Fort Mitchell, Ky., assignor to The Kelley Koett Manufacturing Company, Inc., Covington, Ky., a corporation of Ohio
Application June 1, 1937, Serial No. 145,651
4 Claims. (Cl. 250—87)



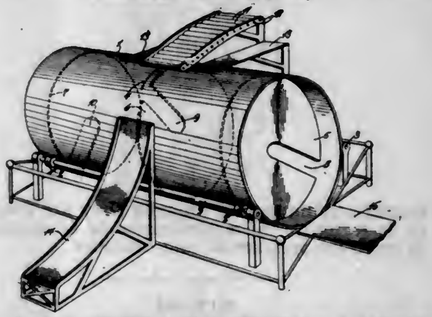
1. A shock-proof continuous duty X-ray unit comprising a sealed casing containing oil, an X-ray tube in the casing, energizing transformer means for the tube mounted in the casing and heat exchange means traversing the interior of the casing and terminating exteriorly of the casing for connection with a source of circulating coolant medium.

2,170,934
CONVEYER
Albert F. White, Toronto, Ontario, Canada
Application June 2, 1939, Serial No. 277,059
5 Claims. (Cl. 198—168)



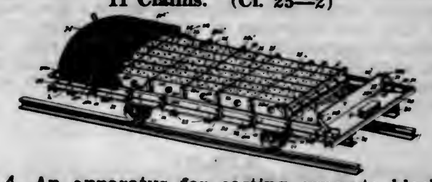
1. In a conveyer, the combination with a casing having an upwardly extending substantially entirely enclosing leg and a discharge opening, endless draft mechanism in said casing for conveying material along said casing leg to said discharge opening, trailing pivoted flights carried by said endless draft mechanism and cooperating with said leg to convey material to said discharge opening said flights having openings through which said draft mechanism freely passes while providing for lateral movement of said flights relative thereto, and cam means for swinging said flights to material discharging position adjacent said discharge opening.

2,170,935
AMUSEMENT DEVICE
James Whiteley, Olcott, N. Y.
Application February 18, 1938, Serial No. 191,128
2 Claims. (Cl. 272—1)



1. An amusement device comprising a cylinder having a greater diameter than the height of the users, supported for rotation about an approximately horizontal axis and forming a passage for the users, and a series of diametrical partitions attached in spaced relationship within the cylinder and each having a door opening disalined from the door openings of adjacent partitions, the interior of the cylinder being otherwise unobstructed in every direction.

2,170,936
METHOD AND APPARATUS FOR MAKING ARTIFICIAL STONE
Carol F. Baron, Brooklyn, N. Y.
Application November 18, 1936, Serial No. 111,411
11 Claims. (Cl. 25—2)

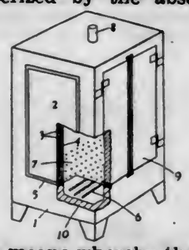


4. An apparatus for casting concrete blocks, comprising a table, a series of adjacent molds arranged in longitudinal as well as in transverse rows and secured thereon, a hood movable to expose and completely enclose the table-top and said molds, and steam-supply pipes supporting said hood and having nozzles extending into the interior thereof.

2,170,937
EXPLOSION SAFETY DEVICE
Hans Brüning, Hanau-on-the-Main, Germany, assignor to W. C. Heraeus, G. m. b. H., Hanau-on-the-Main, Germany
Application July 28, 1937, Serial No. 156,187
In Germany July 29, 1936
6 Claims. (Cl. 220—89)

1. In an explosion-safety heat insulated enclosure, the combination of a heat insulating chamber having bottom, top, and side walls carried by a relatively strong frame and provided with heat insulating material adapted to withstand the forces of explosion when said chamber is provided with a heat insulating safety arrangement, and a heat insulating safety arrangement comprising a portion of said enclosure and consisting of a plurality of thin metal foils arranged in a suitable frame and spaced from each

other with respect to their arrangement from the inside to the outside of the chamber, said foils being characterized by the absence of inter-



mediate filling means whereby they are adapted to be frangible upon occurrence of an explosion or excessive pressure in said chamber.

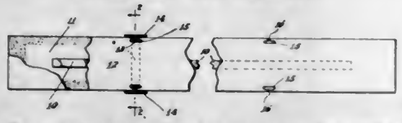
2,170,938

VENETIAN BLIND

James Carreras and Richard Laborda, Brooklyn, N. Y.; said Carreras assignor of one-fourth to Frank Valls, one-eighth to Anthony Guasch, and one-eighth to John Guasch, New York, N. Y.

Application May 3, 1938, Serial No. 205,668

4 Claims. (Cl. 156—17)



1. In a Venetian blind, a louver composed of a reinforcing central slat having inherent rigidity, and facing strips of flexible material upon opposite sides, and extending beyond the ends, of said slat, the edges of said facing strips, upon opposite sides and at the ends of said slat, being cemented together, whereby said facing strips may be decorated before their assembly with said reinforcing slat.

2,170,939

WINDSHIELD WIPER CLIP

Victor H. Christen, Detroit, Mich., assignor of fifty per cent to Superior Seal & Stamp Company, a corporation of Michigan

Application July 1, 1935, Serial No. 29,283

5 Claims. (Cl. 15—250)



1. In windshield wiping apparatus including a wiper blade and an operating arm having a channel-shaped end portion provided with an inwardly extending lip on its web part, a coupling element securable to said blade and including a U-shaped section having spaced wall portion provided with registering slots for receiving the web of the channel-shaped end portion of said operating arm, the inner ends of said slots being undercut, and yieldable fingers between the main lengths of said slots and the undercut portions thereof, said fingers being deflectable to accommodate the passage of the lip of said operating arm into said slots and having extremities engageable therewith for holding said arm against disengagement from said coupling.

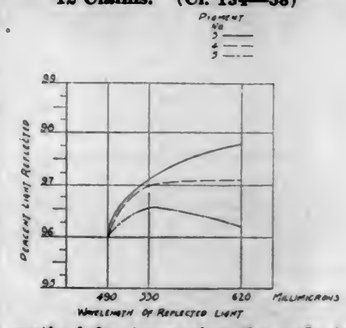
2,170,940

WHITE TITANIUM DIOXIDE PIGMENT

Roy Dahlstrom, Metuchen, N. J., assignor to National Lead Company, New York, N. Y., a corporation of New Jersey

Application December 24, 1936, Serial No. 117,492

12 Claims. (Cl. 134—58)



1. A method for increasing the reflectance of a white titanium dioxide pigment in the shorter wavelengths of the visible spectrum relative to the reflectance of the said pigment in the longer wavelengths of the visible spectrum which comprises exposing said white titanium dioxide pigment containing between 0.001 percent and 0.0001 percent of at least one of the elements selected from the group consisting of tungsten and molybdenum to hydrogen gas at a temperature of about 900° C. for approximately one to five seconds as required to increase the light reflectance in the shorter wavelengths of the visible spectrum relative to the reflectance in the longer wavelengths without materially reducing the average total light reflected at all wavelengths.

2,170,941

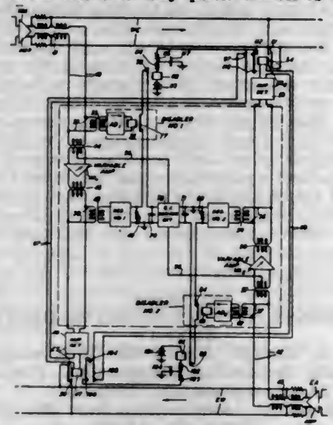
TRANSMISSION CONTROL IN SIGNALING SYSTEMS

Kingsbury H. Davis, Closter, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application September 15, 1938, Serial No. 230,024

6 Claims. (Cl. 178—44)

1. In a two-way telephone system comprising a source of voice waves, two or more four-wire links connected in tandem, each of the links embodying two oppositely directed one-way paths subject to interfering noise waves, a wave device connected to the one-way paths in each link and responsive to waves therefrom to short-circuit the opposite one-way paths therein, a wave amplifier connected between each one-way path and the wave device operatively associated therewith, and means for maintaining for a substantial portion of time an automatic control of the gain of the amplifiers in each link in response to waves impressed thereon comprising means connected to the output of each amplifier for producing voltages representative of the amplitudes of the waves therein, a control circuit for combining the controlling effects of the produced voltages in such manner that a single control voltage is effectively applied to the amplifiers, and means operably connected to each wave device to disable the voltage producing means whose input comes from the one-way path which is opposite



to the one-way path whose waves caused the operation of the wave device.

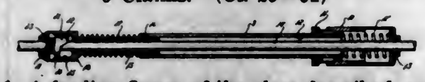
2,170,942

FEEDING FINGER

John Evasic, Detroit, Mich.

Application January 12, 1938, Serial No. 184,652

6 Claims. (Cl. 29—61)



1. A feeding finger of the class described, comprising: a hollow thrust delivery member; a tubular member mounted in telescopic relation with said delivery member; a head; a gripping mechanism in said head for gripping a workpiece projected therethrough; a sleeve projecting outwardly from said head and slideably insertible into said tubular member; a spring for resisting slideable movement of said sleeve inwardly of said tubular member; and a spring in said thrust delivery member for resisting inward movement of said tubular member relatively to said thrust delivery member.

2,170,943

DISRUPTIVE OR BRISANT EXPLOSIVE COMPOSITION

Walter Friederich, Troisdorf, Cologne, Germany, assignor to Dynamit - Actien - Gesellschaft, vormals Alfred Nobel & Co., Troisdorf, near Cologne-on-the-Rhine, Germany

No Drawing. Application October 14, 1938, Serial No. 234,893. In Germany May 12, 1937

2 Claims. (Cl. 52—1)

1. An explosive composition comprising an organic tetrazylaxide.

2,170,944

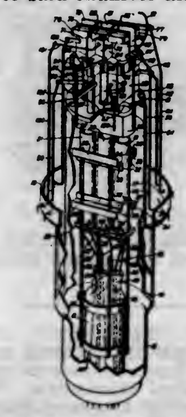
MULTICATHODE RAY DISCHARGE DEVICE

Myron S. Glass, West Orange, N. J., and Douglas A. S. Hale, Brooklyn, N. Y., assignors to Bell Telephone Laboratories, Incorporated, New York, N Y., a corporation of New York

Application May 29, 1937, Serial No. 145,432

20 Claims. (Cl. 250—150)

1. A multi-beam projection device comprising an enclosing vessel having a cylindrical reentrant portion forming an internal chamber, a plurality of beam producing units arranged in parallel relation in said chamber, a metallic electrode common to all said beam producing units in cooperative relation to said chamber and said units, sets



of deflector plates arranged in transverse pairs individual to each beam producing unit, and means supporting said sets of plates from said metallic electrode.

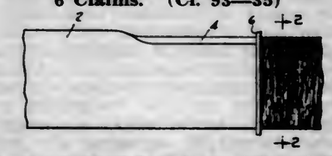
2,170,945

CRINKLED PAPER TUBE AND METHOD OF FORMING SAME

Edwin D. Greene, New York, N. Y., assignor to Arkell Safety Bag Company, New York, N. Y., a corporation of New York

Application May 6, 1937, Serial No. 141,071

6 Claims. (Cl. 93—35)



6. The method of forming a tube of the class described which comprises feeding a strip longitudinally and while the strip is being fed folding over at least one of the edges of the strip, and crinkling the strip with the crinkles extending transversely thereof and across said folded edge portion, cutting off lengths of the strip, forming a tube by folding each length on a line transversely thereof so as to position the end edges of the strip together, and securing said edges together to form the completed tube.

2,170,946

MACHINE FOR FORMING BOTTLE NECKS UPON SHEET METAL TUBS

Edward J. Greif, Chicago, Ill., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois

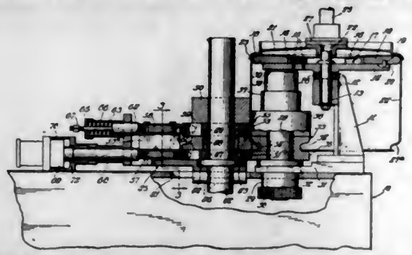
Application July 18, 1936, Serial No. 91,269

Renewed February 3, 1939

13 Claims. (Cl. 113—52)

1. Rolling mechanism comprising, roll means having thereon a circumferential shaper section and a holder section, a shaper roll, a holder roll, said roll means and said rolls being relatively movable, means yieldingly urging said holder roll and holder section into close cooperative proximity, releasable restraining means for said urging means, means for relatively moving said

shaper roll and shaper section until said roll and section are in close cooperative proximity, and



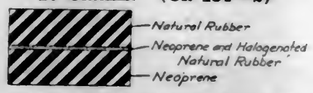
means for releasing said restraining means prior to said shaper roll and shaper section reaching such proximity.

2,170,947

MANUFACTURE OF RUBBER ARTICLES

Bernard James Habgood and Leslie Budworth Morgan, Blackley, Manchester, England, assignors to Imperial Chemical Industries Limited, a corporation of Great Britain

Application March 16, 1937, Serial No. 131,260
In Great Britain March 18, 1936
17 Claims. (Cl. 154—2)



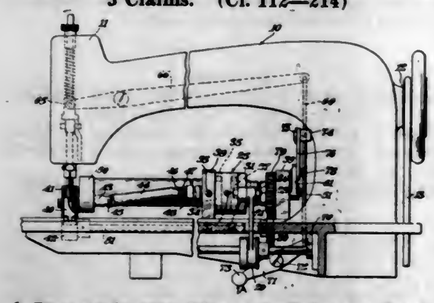
1. A process for the manufacture of composite rubber articles and materials comprising vulcanized natural rubber bonded to a vulcanized synthetic rubber-like material made by polymerizing halogen-substituted butadiene(1:3), which comprises taking unvulcanized compounded natural rubber and unvulcanized compounded synthetic rubber-like material made by polymerizing halogen-substituted butadiene(1:3) along with an interposed unvulcanized compounded synthetic rubber-like material comprising a halogen derivative of natural rubber and polymerized 2-chlorobutadiene(1:3), bringing the materials into good contact and then vulcanizing.

2,170,948

SEWING MACHINE

Charles Meyer, Yonkers, N. Y., assignor to Bartman & Bixer Inc., New York, N. Y., a corporation of New York

Application May 20, 1938, Serial No. 208,993
5 Claims. (Cl. 112—214)



1. In a sewing machine, a feed dog mechanism, a pair of coacting feed rollers operatively synchronized with said mechanism and adapted to coact therewith for effecting a rearward feeding movement of material being sewed, one of said rollers being positioned above the other, shafts for both of said rollers, actuating means for said mechanism and shafts, an arm rotatably supporting the upper roller shaft and remote from the outer lateral surface of the roller thereon a suitably mounted lifting shaft substantially parallel to the roller shafts, said arm being affixed to the lifting shaft, a lifting lever affixed to said lifting shaft whereby, upon an operation of the lifting lever, said shaft is rotatably actuated to cause a corresponding movement of the arm and roller shaft carried thereby, and yieldable means urging said arm into its lowermost position where both rollers are in operable relation.

2,170,949

PROCESS OF PREPARING ADHESIVE SHEETS

Willard L. Morgan, Hammond, Ind., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia

No Drawing. Application June 23, 1936, Serial No. 86,808
13 Claims. (Cl. 91—68)

1. A process of producing an odorless pressure-sensitive adhesive sheet material which comprises coating a flexible sheet material with a composition comprising rubber, a resin, and phthalic acid, in a suitable solvent, and subsequently evaporating the solvent.

2,170,950

RESINS FROM PHENOLIC COMPOSITIONS AND ESTERS OF ANACARDIC ACID

Emil E. Novotny, Oak Lane, Pa., assignor to Durite Plastics, Incorporated, Philadelphia, Pa., a corporation of Pennsylvania

No Drawing. Application May 6, 1937, Serial No. 141,182
14 Claims. (Cl. 260—24)

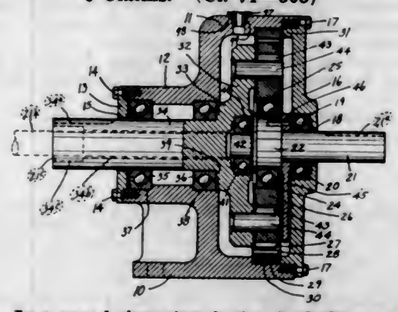
1. As a composition of matter, the reaction product of a permanently fusible resin containing a reactive phenolic hydroxyl group and an ester of anacardic acid.

2,170,951

CONTINUOUS POWER ECCENTRIC DUAL GEAR SPEED REDUCER

John R. Perry, Danville, Ill., assignor to Fred W. Coffing and R. R. Bookwalter, doing business as the Coffing Hoist Co., Danville, Ill.

Application December 6, 1937, Serial No. 178,319
6 Claims. (Cl. 74—308)



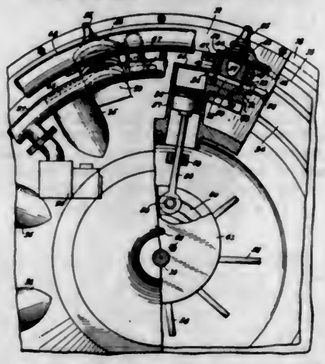
1. In a speed changing device, including a relatively stationary gear having a relatively large number of teeth, a second and smaller adjacent gear having a relatively large number of teeth thereon of the same shape as the first mentioned teeth, said gears having a plurality of pairs of confronting teeth in mesh, a shaft, an eccentric rigid therewith, said smaller gear having a central opening for eccentric reception, a second shaft axially aligned with the first shaft, and a plurality of parallel pins supported thereby equidistant from the axis of the second mentioned shaft and equally spaced annularly, said smaller gear having a corresponding number of circular apertures therein similar spaced, each last mentioned aperture seating a pin, all pins at all times occupying the same relative positions in the apertures as any one pin occupies in its aperture, all pin positions always being substantially 180° or opposite to that of the gear-to-gear contact, the pin 90° in advance of the gear contact being the then effective power transmitting pin and said last mentioned pin being 90° being the gear motion.

2,170,952

GAS TURBINE

Patrick J. Scanlan, Brooklyn, N. Y.

Application February 7, 1938, Serial No. 189,025
2 Claims. (Cl. 60—41)



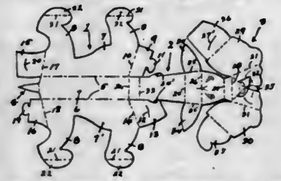
1. A gas turbine, comprising in combination a shaft, a wheel on said shaft having blades on the outer peripheral portion of the same, a pump comprising a cylinder disposed substantially radially of said shaft at one side of the wheel adjacent the outer peripheral portion and a piston operating in said cylinder in substantially radial relation to said shaft, means carried by said shaft for effecting reciprocation of said piston, said cylinder having an inlet and discharge port, a charge forming device, a supply connection therefrom, including a port substantially opposite said cylinder port, a valve chamber in substantially radial relation to the shaft and disposed between said cylinder and charge supply connection, a valve body rotatably mounted in said valve chamber, cooperative means on said wheel and valve body for effecting cyclic movements of the latter, said valve chamber and valve body having passages cooperating in one position of the valve body to enable transfer of charge from the supply connection into the pump cylinder on the suction stroke of the piston, said valve body having a combustion chamber therein and provided with a passage to register with the cylinder passage in another position of the valve body on the compression stroke of the pump piston, said valve body further having a port opening to the bladed portion of the wheel and said combustion chamber opening to said latter port in the first mentioned position of the valve body when a charge is being transferred from the supply connection into the pump cylinder and means for effecting ignition of the charge when said combustion chamber is in position to discharge to the bladed portion of the wheel.

2,170,953

PAPER CUT-OUT

Nell Spots, Kew Gardens, N. Y.

Application November 30, 1936, Serial No. 113,339
1 Claim. (Cl. 46—157)



A paper toy animal comprising a single flat blank of paper having an elongated central strip and body and head portions formed integrally therewith, said blank being formed in outline to provide extensions projecting from the opposite side edges of the central portion and formed integrally with the strip and the blank being creased along the junctures of the extensions and central portion for folding the extensions to opposed relationship for forming the opposite sides of the body of the animal, means, including the part of the strip adjacent the head end of the blank arranged and adapted to flexibly support the head of the body elevated with adjacent margins of the body and head in overlapping relation and said last mentioned means including a portion of said strip folded on itself at the juncture of the head and body portions.

2,170,954

SEASONING COMPOSITION

William J. Stange, Chicago, Ill., assignor to Wm. J. Stange Company, Chicago, Ill., a corporation of Illinois

No Drawing. Application July 21, 1938, Serial No. 220,503
5 Claims. (Cl. 99—140)

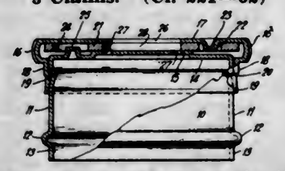
1. A seasoning composition comprising an intimate, non-caking mixture of essential oils and oleoresins of spices and a gelatinized starch.

2,170,955

SIFTER CLOSURE

Percy M. Thorn, New Rochelle, N. Y.

Application April 6, 1936, Serial No. 72,949
3 Claims. (Cl. 221—62)



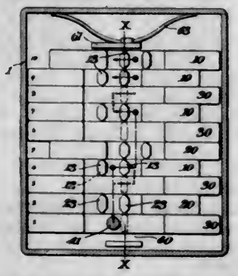
3. A closure for containers or the like having a base member, a cap, a shutter member movable between said base member and said cap, one of said members having a plurality of sifter openings arranged in a group, said sifter openings being centrally disposed when in the exposed position, and a cap member upon said base member having a centrally disposed opening, and means for moving said shutter member from a position to expose said group of sifter openings to a posi-

tion to conceal the same, said parts being shaped to concentrate the pressure between the parts on the periphery of the opening in said base.

2,170,956
METHOD FOR REFINING ROSIN
Byron M. Vanderbilt, Terre Haute, Ind., assignor to Commercial Solvents Corporation, Terre Haute, Ind., a corporation of Maryland
No Drawing. Application June 14, 1937, Serial No. 148,110
15 Claims. (Cl. 260—107)

1. In a process for the refining of rosin, the steps which comprise subjecting to the action of a nitroparaffin a solution of rosin in a solvent capable of immiscibility with said nitroparaffin, the ratio of nitroparaffin to rosin solvent being at least 20 volumes of nitroparaffin to 25 volumes of rosin solvent, forming substantially immiscible liquid phases comprising a solution of rosin in the said rosin solvent, and a solution of rosin impurities in the said nitroparaffin, and separating the said liquid phases.

2,170,957
KEYLESS LOCK DEVICE
Leon H. Amdur, Brooklyn, N. Y.
Application March 4, 1939, Serial No. 259,750
29 Claims. (Cl. 70—57)



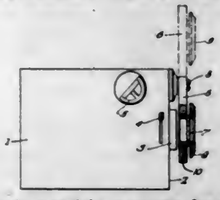
1. In a device of the class described, in combination, a latch mechanism capable of a latched and unlatched condition comprising a latch bar, a casing, a permutation mechanism capable of a clear and a blocking condition comprising a plurality of elements arranged in side by side relation in the said casing and adjustable to different positions, a manipulative member movable generally in a forward direction to be selectively aligned with the said elements and to adjust individual elements thereof, and contactable with the said latch bar, the movement of the said bar in the said forward direction being effective to unlatch the device, further forward movement of the said manipulative member being normally blocked by the said elements in the blocking condition of the permutation mechanism whereby the said latch bar is retained against forward unlatching movement, the said elements being adapted to be adjusted to pre-determined positions in which the permutation mechanism is in clear condition, whereby the said manipulative member is capable of a further forward movement to unlatch the device, means normally in a position effective to retain the elements in said adjusted positions whereby the movement of the said manipulative member in the return direction will not be prevented by the said elements, the latch mechanism remaining in unlatched condition and the permutation mechanism remaining in clear condition during the said return movement of the manipulative member, the manipulative member being adapted at the end of its said return movement to move the said retaining means from its said effective position, whereby the elements move from the said predetermined positions to render the permutation mechanism in blocking condition.

2,170,958
POWER SOARER
Edward F. Andrews, Chicago, Ill.
Application May 14, 1936, Serial No. 79,789
20 Claims. (Cl. 244—13)



1. In an aeroplane having a wing, a motor, a propeller operatively connected to the motor and having a position within the general upper and lower surface lines of the wing in front of a rear portion of the wing, said rear portion of the wing behind said propeller being movable, and means for moving said rear portion out of normal position and stowing it within the forward part of the wing for propeller operation.

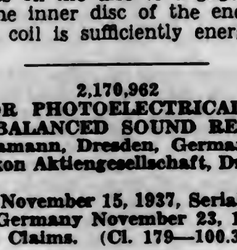
2,170,959
PHOTOGRAPHIC CAMERA
Heinrich Bartels, Dresden-Laubegast, and Otto Müller, Dresden, Germany, assignors to Zeiss Ikon Aktiengesellschaft, Dresden, Germany
Application April 19, 1937, Serial No. 137,790
In Germany April 23, 1936
13 Claims. (Cl. 95—64)



1. In a photographic camera having a photographic objective, the arrangement of polarising means, comprising a carrier for said polarising means, said carrier being movably connected with said camera so as to be movable in a plane at a right angle to the axis of the camera objective for positioning said polarising means selectively in the path of the light rays entering the camera, and in the path of light rays between the object to be photographed and the eye of the observer respectively, said carrier supporting said polarising means in both said selective positions so that the polarising plane in both positions has the same angular inclination to the horizontal.

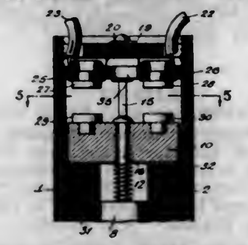
2,170,960
SHOULDER SUPPORTING MEMBER
David Bellfort, New York, N. Y.
Application October 11, 1937, Serial No. 168,407
3 Claims. (Cl. 2—268)

1. In a dress, the combination of a body portion, sleeves attached to said body portion by a seam, and shoulder supports, each of said supports comprising a single strip of material having longitudinal edges and provided with a plurality of transverse folds intermediate the ends thereof, each of said strips being secured adjacent one longitudinal edge thereof to said body portion and at a point substantially coinciding with said seam and having a portion adjacent the other longitudinal edge thereof extending



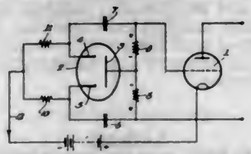
into and contactively supporting a portion of said sleeve to thereby extend the shoulder outwardly beyond said seam.

2,170,961
RELAY
Elmer Borgkvist, Arlington, N. J.
Application January 6, 1937, Serial No. 119,180
10 Claims. (Cl. 200—165)



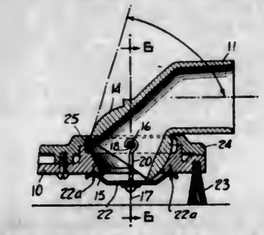
1. In a relay of the class described, having a magnetic coil for actuation of an armature rod, both of which are encased within an insulated housing, the combination of a disc connected to said rod at one end, an end cap for the housing comprising a pair of inner and outer insulating discs the inner disc bearing switch points and the outer disc bearing guide pins, apertures in the disc to receive the guide pins, and switch points on the disc to engage the switch points on the inner disc of the end cap when the magnet coil is sufficiently energized.

2,170,962
MEANS FOR PHOTOELECTRICALLY SCANNING BALANCED SOUND RECORDS
Gerhard Clamann, Dresden, Germany, assignor to Zeiss Ikon Aktiengesellschaft, Dresden, Germany
Application November 15, 1937, Serial No. 174,606
In Germany November 23, 1936
5 Claims. (Cl. 179—100.3)



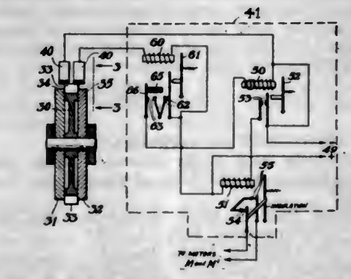
1. A system for photoelectrically scanning balanced two track sound records, including in a circuit two light sensitive elements, one for each of said two sound tracks, means for connecting said two light sensitive elements as to direct current parallel to each other, with like polarities connected with each other, while connecting said light sensitive elements as to alternating current in opposition to each other and in series, said means including two serially arranged resistances, one for each said two light sensitive elements and arranged to combine the output of the same, a single amplifier tube, and means for directly connecting the outer ends of said two serially arranged resistances with said amplifier tube.

2,170,963
SUCTION NOZZLE
Gosta Dahl, Stockholm, Sweden, assignor to Electrolux Corporation, Dover, Del., a corporation of Delaware
Application July 7, 1937, Serial No. 152,291
In Germany July 18, 1936
2 Claims. (Cl. 285—91)



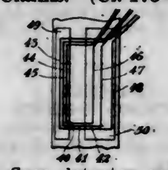
1. A universal fluid-conveying joint for a suction nozzle having a surface engaging portion, a connector adapted to connect the same to a suction conduit, a freely rotatable and pivotal ball and socket joint interconnecting said suction nozzle and connector and having an aperture through which the suction air passes, spring means holding said ball and socket joint in assembled position, an annular channel formed in said suction nozzle in a plane parallel to said surface and means carried by said connector and engaging said channel to limit the movement of said connector in certain directions.

2,170,964
DEVICE FOR CONTROLLING ELECTRIC CIRCUITS
Loren J. De Lanty, Brooklyn, N. Y., assignor to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York
Application October 21, 1936, Serial No. 106,852
14 Claims. (Cl. 175—183)



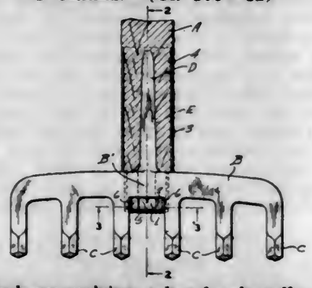
1. A device for controlling an electric circuit in response to movement of an object, comprising a normally open circuit, means whereby the movement of said object generates a plurality of electric impulses in said second circuit, and means whereby said impulses open and close the first electric circuit.

2,170,965
RAIL FLAW DETECTOR MECHANISM
Harcourt C. Drake, Hempstead, N. Y., assignor to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York
Application July 30, 1937, Serial No. 156,461
10 Claims. (Cl. 175—183)



1. In a rail flaw detector mechanism having means for establishing a magnetic field surrounding the rail and a detector responsive to variations of flux in said field, said detector comprising a plurality of coils positioned one within the other, said coils being of such size and so positioned as to cooperate with different portions of the railhead, and means for maintaining the portions of said coils at one side of the rail at a different temperature from the portions of said coils at the other side of the rail.

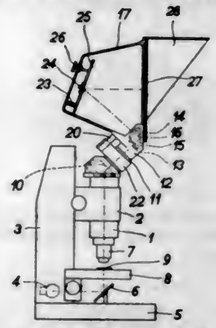
2,170,966
FORK CONSTRUCTION
Charles G. Eckhold, Wellston, Mo.
Application April 4, 1938, Serial No. 199,803
4 Claims. (Cl. 306—41)



1. A fork comprising a head, a handle, a sleeve embracing a portion of said handle, said sleeve being provided with opposed openings open at an end of said sleeve in which a part of said head is disposed, and means for fixedly connecting said head and handle together, said means comprising a cap secured to said sleeve, said cap comprising a disc that closes an end of said sleeve and is secured thereto and is provided with fingers which engage the part of the head disposed in the opposed openings of said sleeve.

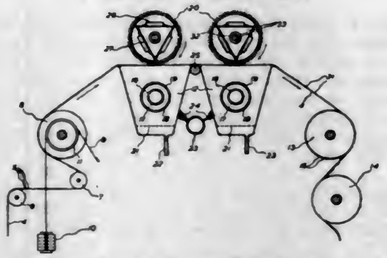
2,170,967
PROJECTING APPARATUS
Otto Eppenstein and Willy Dietzel, Jena, Germany, assignors to the firm of Carl Zeiss, Jena, Germany
Application July 12, 1938, Serial No. 218,750
In Germany July 21, 1937
4 Claims. (Cl. 88—24)

1. A projecting apparatus comprising a microscope stand, a light source, means directing light emanating from said light source, an object holder, a tube in optical alignment with said object holder and said light source, means securing said tube on said stand, an objective lens mounted in said tube, a reversing and deviating prism mounted in said tube at the opposite end to said objective lens and directing said light beam at an angle to the axis of said objective, an eye-piece lens mounted in optical alignment with said prism, a screen disposed above said microscope stand, a mirror coordinated to said eye-piece to



reflect the projection beam substantially in the same plane upwardly and backwardly at approximately 90 degrees before said beam strikes said screen, a casing containing said eye-piece, said mirror and screen, and means to mount said casing detachably on said tube.

2,170,968
FABRIC FINISHING AND LIKE MACHINES
Alexander Henderson Gentle, Spondon, near Derby, England, assignor to Celanese Corporation of America, a corporation of Delaware
Application December 16, 1937, Serial No. 180,105
In Great Britain January 6, 1937
5 Claims. (Cl. 26—29)



1. A fabric finishing machine in which fabric is subjected to mechanical treatment and in which vapor is applied to the portion of the fabric under said treatment, said machine comprising, in combination with a vapor box adapted to apply vapor to the fabric, means for heating the box to a temperature sufficiently high to prevent any substantial condensation of the vapor in the box, means for subjecting the portion of the fabric to which vapor is being applied to a mechanical treatment, and an electric heating element disposed in said mechanical treating means and adapted to heat said means to a temperature sufficiently high to prevent any substantial condensation of the vapor.

2,170,969
PACKER FOR SOLID REFRIGERANTS
Harry S. Houghton, San Marino, Calif., assignor to Witt Ice & Gas Co., Los Angeles, Calif., a corporation of California
Application March 9, 1938, Serial No. 194,835
9 Claims. (Cl. 62—91.5)

1. A packer for solid refrigerants, which comprises: inner flexible pad means having heat-insulating characteristics, said pad means being of greater area than the total external area of the body of refrigerant to be packed, and having portions adapted to be folded about said body in overlapping relation; an open-ended outer flexible enclosure member adapted to receive said



inner pad means and the contained refrigerant body; tie means secured to said enclosure member and engaging said pad means at the open end of said enclosure member to maintain said portions in said overlapping relation at said open end; and a removable cover means adapted to enclose the open end of said enclosure means.

2,170,970
PISTON, RING, AND RING EXPANDER
Charles F. Johnston, Oakland, Calif.
Application May 15, 1937, Serial No. 142,851
6 Claims. (Cl. 309—7)



1. In combination, a piston provided with an annular ring groove, a piston ring mounted in said groove, a flat polygonal spring mounted between and engaged with the base of said groove and the inner face of said ring for expanding said ring in said groove, said groove base and said inner ring face being receded from each other so as to engage said spring exclusively at the side edges of said spring.

2,170,971
EDUCATIONAL DEVICE
Madeleine Lodewick and Mildred Lodewick, New York, N. Y.
Application December 2, 1936, Serial No. 113,750
2 Claims. (Cl. 35—23)

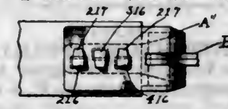


1. An educational device, comprising a substantially two-dimensional figure formed of sheet material simulating the body of a child, a tab projecting from the portion of the figure corresponding to the head and neck, and a portrait of the child who is to possess the figure attached to the tab.

2,170,972
PROCESS FOR TREATING ANHYDRIDES
Herbert E. Martin, Cumberland, Md., assignor to Celanese Corporation of America, a corporation of Delaware
No Drawing. Application December 24, 1936, Serial No. 117,613
11 Claims. (Cl. 260—546)

1. Process for reducing the content of sulphur and labile organo-sulphur compounds in anhydrides of lower aliphatic acids from 60 to 100 parts per million to less than 10 parts per million, which comprises treating the anhydride of the lower aliphatic acid with calcium hypochlorite in the presence of a metal acetate.

2,170,973
BELT FASTENER
John C. Olsen, Chicago, Ill., assignor to Flexible Steel Lacing Company, Chicago, Ill., a corporation of Illinois
Application February 14, 1938, Serial No. 190,399
1 Claim. (Cl. 24—33)

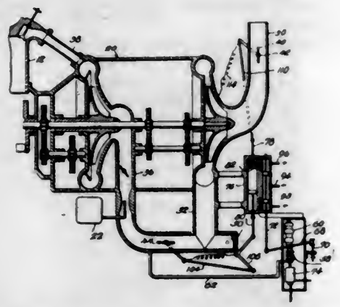


In a device of the character described, the combination with an attaching member, of a fastener for a side driving belt of relatively narrow width, said attaching member having united outer and inner arms adapted to embrace, respectively, the outer and inner faces of the end of such a narrow belt, said outer arm being wider than the inner arm and the latter narrower than the inner face of the belt and both arms of the attaching member being provided with three sets of pairs of apertures, the apertures of each pair being alined radially of the belt, the respective pairs of said apertures being spaced from each other in a direction lengthwise of the attaching member and also alternately offset from each other transversely of the attaching member; of three securing elements each of which is extended radially through an alined pair of said apertures, each said element having a shank of substantially rectangular cross section relatively elongated in a direction parallel to the line of the belt to which the attaching member is adapted to be secured and relatively narrow in a direction transversely of the belt, whereby the strength of the attaching member is maintained in the inner narrow arm thereof, lateral swelling of the belt is kept to a minimum corresponding to that produced by one said element only and the effective amount of belt material to resist endwise pulling out of said three elements is not less than twice that effective to resist endwise pulling out of one such element.

2,170,974
TWO-STAGE SUPERCHARGER
Wright A. Parkins, West Hartford, Conn., assignor to United Aircraft Corporation, East Hartford, Conn., a corporation of Delaware
Application March 26, 1937, Serial No. 133,160
10 Claims. (Cl. 123—119)

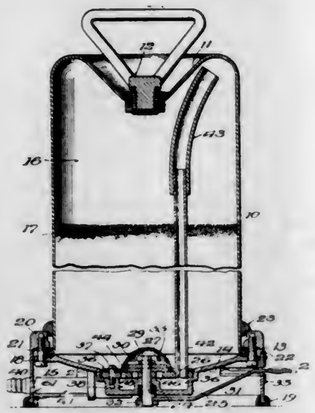
1. In combination with an aircraft engine having a multi-stage supercharger for supplying air thereto, a duct between the two stages of said supercharger and means for maintaining the air pressure in said duct substantially constant at a preselected value, comprising, a device responsive to the air pressure in said duct, and power actu-

ated means under the control of said pressure responsive means for controlling the various stages



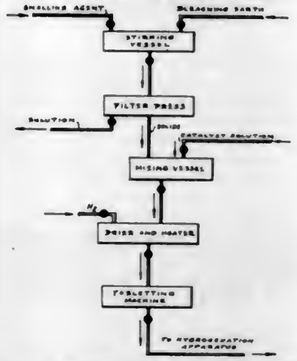
of said supercharger in sequence to regulate the air pressure in said duct.

2,170,975
WATER-TREATING APPARATUS
Eric Pick, New York, N. Y., assignor to The Permutit Company, New York, N. Y., a corporation of Delaware
Application November 11, 1937, Serial No. 174,104
11 Claims. (Cl. 210—24)



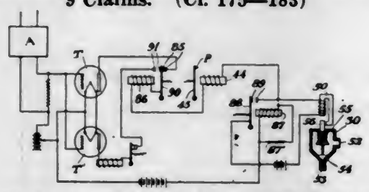
1. Water treating apparatus comprising a tubular container shell for holding water treating granules, open at one end and outwardly flanged at that end, a discoid closure plate opposed to said flange, an annulus surrounding the closure plate and having a flange extending over the container shell flange, sealing means between the container shell flange and the closure plate, screw means for pressing the container shell flange, closure plate and annulus flange together, a multiport valve in the closure plate, said valve comprising a ported stator and a rotor cooperating with the stator, a conduit for water to be treated and a conduit for treated water communicating with said ported stator, passages from the ported stator to each end of the container shell, and foraminous means at the end of the one of said passages terminating at the lower end of the container shell, the ported stator being so constructed and arranged as to make connections between said conduits and said passages.

2,170,976
PRODUCTION OF HYDROCARBON PRODUCTS BY THERMAL TREATMENT OF MATERIALS CONTAINING CARBON
Mathias Pier, Heidelberg, and Walter Simon, Rudolf Becker, and Fritz Stoewener, Ludwigshafen-on-the-Rhine, Germany, assignors to Standard-I. G. Company, Linden, N. J., a corporation of Delaware
Application November 13, 1936, Serial No. 110,710
In Germany November 21, 1935
17 Claims. (Cl. 196—52)



5. A process for the production of hydrocarbon products by thermal conversion of carbonaceous fuels which comprises using as catalysts bleaching earths which can only be brought to swelling by treatment for at least five hours with a swelling agent, and which have undergone such swelling.

2,170,977
RAIL FLAW DETECTOR MECHANISM
Henry Schumacher, Walter M. Perry, and Loren J. De Lanty, Brooklyn, N. Y., assignors to Sperry Products, Inc., Brooklyn, N. Y., a corporation of New York
Application February 8, 1935, Serial No. 5,534
9 Claims. (Cl. 175—183)



7. In a rail flaw detector mechanism having means responsive to flaw and marking means, a gaseous discharge tube having a plate, filament and grid, means whereby said responsive means impresses a voltage on said grid in response to flaw to pass current, means controlled by the plate current of said tube for rendering said marking means effective, said means controlled by the plate current of said tube having means for rendering said marking means ineffective, and means for delaying the action of said means for rendering said marking means ineffective.

2,170,978
COASTING DEVICE
Sam R. Smith, South Bend, Ind.
Application August 9, 1937, Serial No. 158,118
5 Claims. (Cl. 280—87.05)

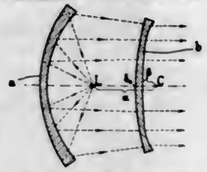
1. A coasting device comprising a frame having

parallel side rails, upright pivotally supported at one end of said rails, a steering post extending therebetween, brace members pivoted to said side rails intermediate the ends thereof and engageable with said uprights for locking the same in vertical position, a guard rigidly secured to the



opposite end of said rails, and means in said guard arranged to receive said post with said uprights embracing opposite sides of said guard upon pivoting thereof into position parallel with said rails, said brace members pivoting about said rails and adapted to lock said uprights to said guard.

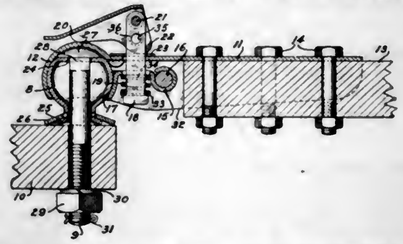
2,170,979
OPTICAL SYSTEM FOR SEARCHLIGHTS
Rudolf Straubel, Jena, Germany
Application September 8, 1937, Serial No. 162,905
In Germany September 12, 1936
5 Claims. (Cl. 240—41.3)



1. In an optical system for search-lights, corrected spherically for the rays proceeding from the axial point and comprising a concave lens-mirror of slight thickness and a lens, said lens-mirror being axially spaced from said lens and facing said lens with its concave side, said lens-mirror producing at least the principal convergence and having surfaces departing from sphericity at most slightly, at least one of the refractive surfaces of said lens departing considerably from sphericity, said lens being disposed near the centres of vertex curvature of the surfaces of said lens-mirror, a light source between said lens-mirror and said lens, the distance of said light source from the centre of curvature of the front surface of said lens-mirror being greater and the product of said distance and the cosine of half the angle of aperture of said lens-mirror being smaller than half the radius of curvature of the front surface of said lens-mirror.

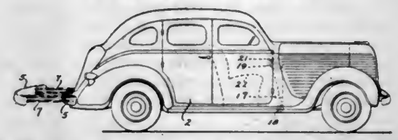
2,170,980
VEHICLE COUPLING
Joel R. Thorp and Steen Strand, West Allis, Wis., assignors to The Fulton Company, West Allis, Wis., a corporation of Wisconsin
Application February 23, 1937, Serial No. 127,094
8 Claims. (Cl. 280—33.15)

3. In a vehicle coupling, a ball member, a socket member coacting with said ball member and having a rearwardly extending shank, a retaining element pivotally suspended from said shank and being cooperable with the rear of said ball member to maintain the same within said socket member, an actuating bar penetrating said



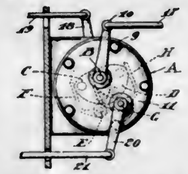
shank and said element, a plate secured to the lower portion of said bar and having an abutment for limiting the swinging motion of said element, a spring interposed between said plate and said element, and means coacting with the upper portion of said bar for compressing said spring.

2,170,981
VEHICLE BUMPER
Elise D. Walter, Canoga Park, Calif.
Application June 7, 1938, Serial No. 212,271
2 Claims. (Cl. 293—55)



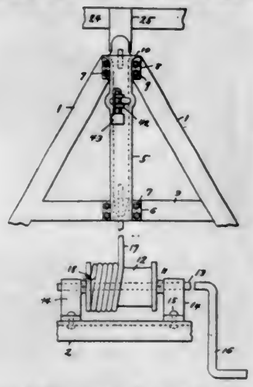
1. In combination with a vehicle, a bumper slidably mounted on the frame of the said vehicle, and means extending within the body of the said vehicle to regulate the movement of the said bumper relative to the said frame, the said means comprising reciprocating bumper supporting means, gear means for actuating the bumper supporting means, a drum secured to the gear means, a second drum rotatably mounted in the vehicle, an endless cable extending over the two drums, and a crank secured to one of the drums for rotating the latter to wind the cable in such a manner that the gear means may be actuated to reciprocate the bumper to extended or to retracted positions.

2,170,982
DUAL CONTROL MECHANISM
Herman Ray Ellinwood, Los Angeles, Calif.
Application June 1, 1938, Serial No. 211,141
3 Claims. (Cl. 74—471)



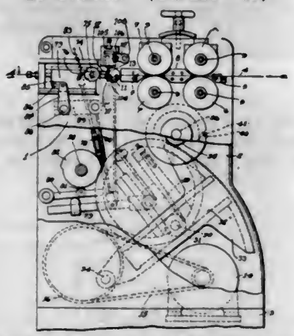
1. In a dual control mechanism, a driving rock-shaft, a pair of cams on said rock-shaft, a pair of yokes arranged astride of and engaged by the working perimeters of said pair of cams, and a pair of driven rock-shafts carrying said yokes.

2,170,983
TRAILER HITCH
Schalto E. Adams, Flint, Mich., assignor of one-half to Clarence E. Dues, Flint, Mich.
Application April 2, 1938, Serial No. 199,710
2 Claims. (Cl. 280—33.15)



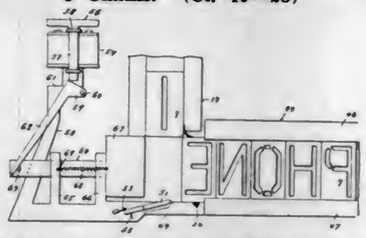
1. In a hitch for coupling a trailer to a tow car, a sleeve extending forwardly from the trailer and fixed thereto, a vertically disposed stud on the rear end of the tow car, a coupling bar endwise slidable in the sleeve, means on one end of the coupling bar for coupling the same to said stud, means for moving the bar endwise inwardly of the sleeve means to lock the coupling bar to the sleeve against endwise movement including a staple-like locking member adapted for insertion into said sleeve in straddling relation to said bar, said sleeve having sockets therein for receiving said member, and the bar being grooved to interlock with said member, a pair of lugs on the sleeve for receiving the locking member therebetween, and a lock for bridging said lugs.

2,170,984
SPRING COILING MACHINE
Charles R. Bergevin and Elmer W. Halvorsen, Torrington, Conn., assignors to The Torrington Manufacturing Company, Torrington, Conn., a corporation of Connecticut
Application November 7, 1938, Serial No. 239,302
16 Claims. (Cl. 140—79)



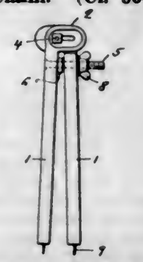
1. In a spring coiling machine, the combination with feed rolls capable of intermittent rotative movement, a coiling arbor and a coiling abutment, of means for controlling the rotative movement of said rolls and the relative positions of said abutment and arbor to successively cause the feeding of a length of wire, the feeding of said wire into a coil, and finally the feeding of a second length of wire continuous with one end of said coil.

2,170,985
SIGN COMPOSING APPARATUS
Quinton Buras, Birmingham, Ala.
Application August 26, 1938, Serial No. 227,013
3 Claims. (Cl. 40—28)



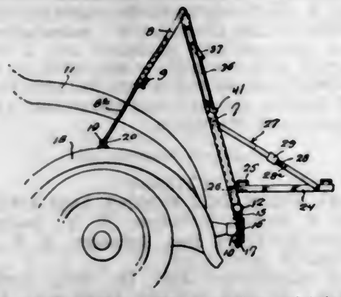
1. A sign composing device comprising a magazine involving guides, tiers of lettered slugs slidably supported by the guides, movable stop means engaging the lowermost slug, key means operatively connected to said stop means for releasing the lowermost slug, a chute in receiving relation to the released slug, a receiver in receiving relation to the chute, said receiver comprising a frame consisting of spaced rails, said frame being supported at one side of the lower end of said receiver, reciprocable means on said receiver for engaging and moving a slug dropped through said receiver to a position between said rails, and means to yieldably hold the slug just moved from leaving the position until pushed by similar moving of a succeeding slug.

2,170,986
CARPENTER'S TOOL
Brice Martin Carr, Lebanon, Tenn.
Application September 13, 1937, Serial No. 163,653
Renewed January 17, 1939
1 Claim. (Cl. 33—154)



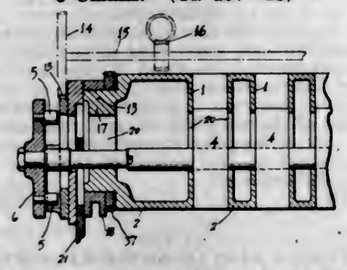
A tool of the class described comprising a pair of straight legs each having a right angularly related head provided with a slot therein extending at a right angle to the leg, said heads being opposed in side-by-side oppositely extending relation, a bolt extending through said slots and having a nut thereon whereby said legs are secured together for relative pivotal movement and for relative lateral adjustment independently of pivotal movement, and a screw extending loosely through said legs intermediate the ends thereof and having a wing nut on one end thereof whereby pivotal movement of said legs may be effected inwardly, said screw having a lock nut threaded thereon intermediate said legs settable into different positions to limit inward movement of one leg relative to the other in selective degrees.

2,170,987
CONVERTIBLE CAMP BED AND LUGGAGE CARRIER
William L. Chambers, Ogden, Utah
Application January 24, 1938, Serial No. 186,713
4 Claims. (Cl. 5—119)



1. In combination with a motor vehicle having rear mud guards and a rear bumper, a longitudinally extensible and collapsible bed frame pivotally mounted at its forward end upon said rear bumper for rearward and downward swinging movement to a substantially horizontal position for use when extended, and rearwardly and upwardly to a susbtantially upright position when collapsed and not required for use, rear supporting legs for said bed frame pivoted to the latter upon transverse axes so as to permit said legs to extend forwardly and downwardly to said rear mud guards when the bed frame is in the second-named position, and means to detachably connect said legs to the mud guards for retaining the bed frame in said second position.

2,170,988
MACHINE FOR FEEDING OR DEPOSITING MEASURED QUANTITIES OF DOUGH OR THE LIKE
Ejnar Christiansen, Birmingham, England
Application July 20, 1938, Serial No. 220,388
In Great Britain July 22, 1937
6 Claims. (Cl. 107—15)



1. Means for supplying a measured quantity of dough or like material, comprising a deposit drum having a piston chamber diametrically therethrough, a piston in the piston chamber having a lateral projection, means for intermittently rotating the deposit drum so that it successively passes into "feed-in" and "deposit" positions and so that the material is alternately fed into opposite ends of the piston chamber, means for moving the piston into position in the piston chamber for the next feed-in position of the deposit drum after an ejection, and means for ejecting the material from the piston chamber coacting with the said lateral projections and adapted to slide outwardly the piston at each deposit position.

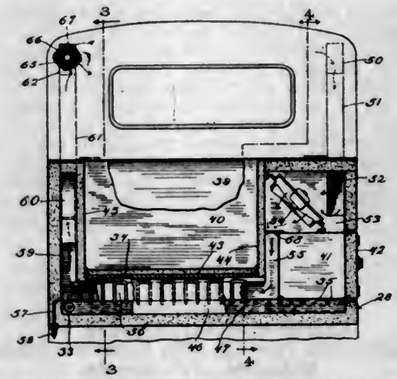
2,170,989
ALKYL HALO-DIPHENYLOXIDES
Gerald H. Coleman and Robert R. Dreisbach, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application March 29, 1937, Serial No. 133,645
9 Claims. (Cl. 260—612)

1. A lower alkyl-halo-diphenyloxide containing at least one lower alkyl radical having at least two carbon atoms.

2,170,990
METHALLYL ETHERS OF PHENYLPHENOLS
Gerald H. Coleman and Garnett V. Moore, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application September 14, 1938, Serial No. 229,872
7 Claims. (Cl. 260—612)

1. A 2-methallyl ether of a phenylphenol.

2,170,991
AIR CONDITIONING APPARATUS
Charles B. Grady, West Orange, N. J.
Application November 15, 1935, Serial No. 49,869
6 Claims. (Cl. 257—7)

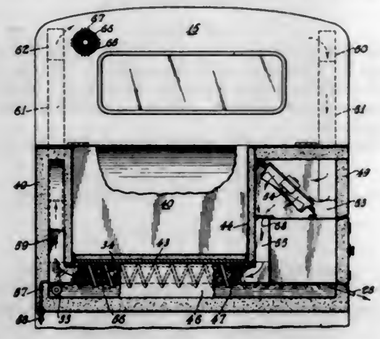


4. Apparatus for air-conditioning an enclosed space comprising a tank isolated from the space and holding a body of heat-transferring liquid, a closed, substantially horizontal immersed air duct extending through said tank and above its bottom, air passages from the space to the duct and from the duct back to the space, with means forcing air circulation therethrough, and means for maintaining the tank liquid at a different temperature from or cooler than the air to be conditioned; the liquid-temperature-maintaining means comprising an elongated pipe arranged in U-shape through the tank with the air duct occupying the space within the U-shape.

2,170,992
AIR CONDITIONING
Charles B. Grady, West Orange, N. J.
Application September 30, 1936, Serial No. 103,420
1 Claim. (Cl. 62—176)

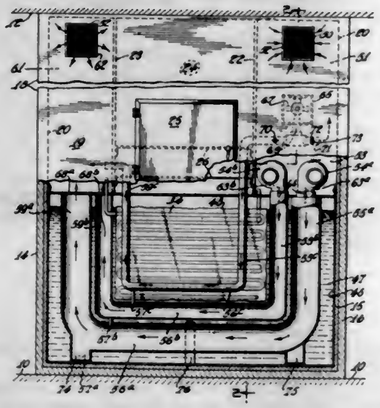
Method of conditioning by cooling and dehumidfying in the warm or summer season the air in a passenger automobile or similar road vehicle having an enclosure for human occupation, as compared with the temperature and humidity of

the outside atmosphere; said method comprising, during periods when the vehicle is in driving use on the road, circulating the air of such enclosure into and through an extended air passage and back to the enclosure, while maintaining in conducting contiguity to such air passage a body of water, and while taking in outside air to freshen the inside air and create an inside pressure above atmospheric pressure; and during periods of nonuse of the vehicle subjecting such water to an intense refrigerating action sufficient to freeze partly or wholly the water into ice and thus store



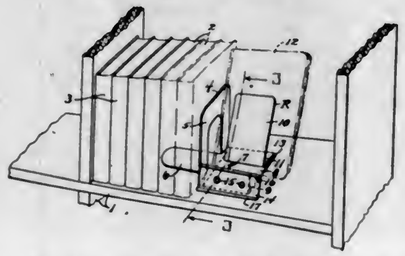
it with a substantial reserve of latent coldness of freezing; and during periods of road use continuing to subject such water to a refrigerating action operated from the power of the vehicle; whereby during such driving periods the circulating air of the occupied enclosure is progressively cooled as to both its wet bulb and dry bulb temperatures, by the gradual melting of such ice as prolonged by such continued refrigeration, and there is caused progressive dehumidification by condensation from the recirculated air of moisture contained therein, for methodical removal thereof from such air passage.

2,170,993
AIR CONDITIONING
Charles B. Grady, Sky Top, Pa.
Application June 10, 1938, Serial No. 212,880
14 Claims. (Cl. 62—140)



1. In apparatus for air-conditioning an enclosed space or room the combination of a tank for holding a body of heat-transferring liquid as water at a different temperature than the air in the space, an air recirculation passage from and to the space comprising an air duct portion of substantial section submerged in the liquid space in the tank, with air downtake to and uptake from said submerged duct portion, whereby the passage is effectively U-shaped, and an air forcing device or fan arranged for maintaining circulation through said passage; and a separate submerged duct for outside air, with an outside connection thereto, and a fan to indraw outside air and force it through said connection and separate duct into the space.

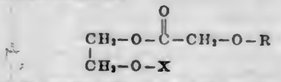
2,170,994
DISPLAY RACK FOR BOOKS AND THE LIKE
Chester A. Grant, Syracuse, N. Y., assignor to Gaylord Brothers, Inc., Syracuse, N. Y., a corporation of New York
Original application July 19, 1937, Serial No. 154,486. Divided and this application January 18, 1939, Serial No. 251,616
5 Claims. (Cl. 211—42)



2. The combination with a bookend including a substantially vertical wall and a horizontal base extending laterally at opposite sides of said wall so that the base portion at one side of the wall is receivable beneath a book, of a rack device comprising a base, a clamping member overlying at least a part of said base and adapted to receive the other base portion of the bookend between the same and the base of the rack device, and a backrest extending upwardly from the base of the rack device and arranged transversely respecting the rack base so as to be disposed in a plane substantially normal to the plane of the wall of the bookend when the base of the latter is received between the clamping member and the base of the rack device, said rack device being stabilized and restrained against accidental displacement by the weight of the book on the base of the bookend.

2,170,995
ETHYLENE GLYCOL ARYLOXY-ACETATES
Ernest F. Grether, William R. Shawver, and Russell B. Du Vall, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application October 30, 1935, Serial No. 47,406
6 Claims. (Cl. 260—473)

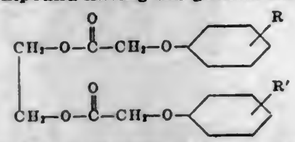
1. An ethylene glycol aryloxy-acetate having the general formula



wherein R represents an aryl group and X represents one of the groups consisting of hydrogen and an aryloxy-acetyl radical.

2,170,996
ETHYLENE GLYCOL DI-(ARYLOXY-ACETATES)
Ernest F. Grether, William R. Shawver, and Russell B. Du Vall, Midland, Mich., assignors to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application May 8, 1936, Serial No. 78,663
6 Claims. (Cl. 260—473)

1. A compound having the general formula
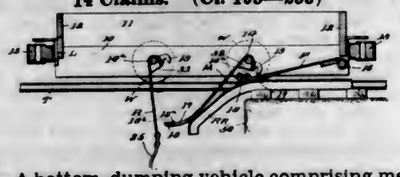


wherein R and R' represent hydrocarbon residues selected from the class consisting of the alkyl, cyclo-alkyl, aryl, and aralkyl radicals.

2,170,997
TUBE CLEANER
Cecil M. Griffin, Pittsburgh, Pa.
Application May 23, 1936, Serial No. 81,430
4 Claims. (Cl. 15—104.06)



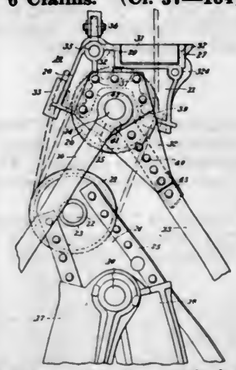
2. A scraper member for condenser tube cleaners comprising an integral sheet metal stamping of general U-shape form with the outer free end of each arm of the U-shaped piece being turned outwardly perpendicular to the plane of the sheet metal arm of the U-shaped member and at an inclination to a plane which is at right angles to the longitudinal axis of the U-shaped member, such outwardly turned portions forming scrapers, the two scrapers of the member being parallel.

2,170,998
INTERLOCKING DOOR STRUCTURES FOR MINE CARS AND LIKE PURPOSES
Charles A. Griffith, deceased, late of Knoxville, Tenn., by Donald Earl Griffith, executor and trustee, Pruden, Tenn.
Application June 20, 1936, Serial No. 86,432
14 Claims. (Cl. 105—253)



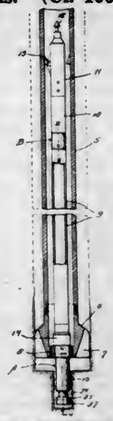
1. A bottom-dumping vehicle comprising means providing walls for a lading body having a bottom opening, a plurality of generally planar doors for closing said opening and arranged to assume a generally horizontal position when closed, transverse door pivot means adjacent the front edge of each said door, a hook on a rearward door located below the door pivot means when the door is closed, the next forward door having an aperture passing vertically therethrough or normally with respect to the general plane of the door and located between the pivot and the free rear edge thereof and adjacent said rear edge, said hook entering said aperture and engaging the said forward door for supporting the same when the rearward door is closed, and latching means for said rearward door.

2,170,999
HEAD ASSEMBLY FOR GRAB BUCKETS
Edward L. Harrington, Pittsburgh, Pa., assignor to Blaw-Knox Company, Blawnox, Pa., a corporation of New Jersey
Application October 27, 1938, Serial No. 237,252
6 Claims. (Cl. 37—184)



1. A head assembly for grab buckets or the like including two bucket portions pivoted to each other and a pair of supporting bars pivoted to each bucket portion, said assembly comprising a generally box-shaped head casting, side plates secured to said casting and depending therefrom, the bars of one pair being secured to said plates, all said bars having alined eyes and a hinge pin extending through said eyes, a closing sheave journaled on said pin, and a closing line traversing said sheave, the eyes of said one pair of bars providing the sole supports for said pin when the bucket is suspended, the other bars being carried on said pin when the bucket is suspended, said bars lying at oblique angles to said pin, and said plates having portions lying at an angle to each other for engagement with the sides of said casting and said one pair of bars, respectively.

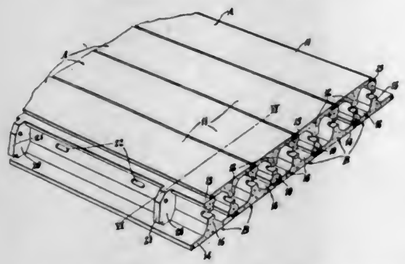
2,171,000
FORMATION TESTER
Christian Iden, Houston, Tex.
Application March 21, 1938, Serial No. 197,306
8 Claims. (Cl. 166—1)



1. In a formation tester for oil wells, the com-

bination of a tubular member having a sample chamber therein and provided at the top of said sample chamber with a bleeder passage, a manually operable valve for closing said bleeder passage, a disruptable closure in the bore of said tubular member normally closing the bottom of said sample chamber, a plunger for disrupting said closure upon impact against the bottom of a well, said plunger being provided with a central passage and having a bottom head provided with a packer arranged to engage the bottom wall of the well hole to seal off the central portion of said bottom wall from the annular space between the tester and the formation wall.

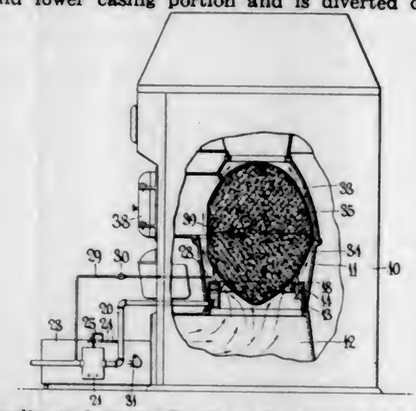
2,171,001
BUILDING CONSTRUCTION
Johannes Cornelis Pieter Leemhuis, Johannesburg, Transvaal, Union of South Africa, assignor of one-half to Harry Schoenhaut, Los Angeles, Calif.
Application December 24, 1936, Serial No. 117,663
In Great Britain December 8, 1936
8 Claims. (Cl. 72—68)



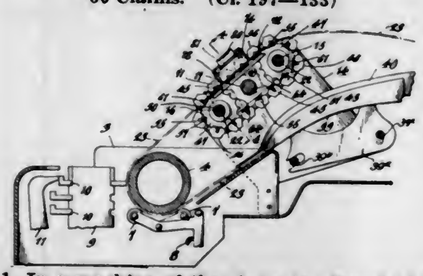
1. A hollow floor or roof structure which includes a series of lower beams supported at their extremities and having upper and lower flanges, and a series of upper beams resting upon said lower beams and having upper and lower flanges, each of said lower beams having secured thereto at least one transverse rib which engages an adjacent one of said upper beams between the flanges thereof and so locks the said adjacent upper and lower beams together in the direction of their lead.

2,171,002
FURNACE
Carl H. Lengyel, Kenmore, N. Y.
Application March 1, 1939, Serial No. 259,186
9 Claims. (Cl. 158—7)

8. In a furnace having a combustion chamber and an opening at the bottom thereof, a conduit in communication with said opening and leading upwardly from a source of draft, a plurality of burners spaced about and closely adjacent the upper end of said conduit, and means in said combustion chamber for diverting air for flow through said conduit and said combustion chamber in a predetermined manner, said means comprising a body of heat insulating material having a relatively thin heat conducting casing, said casing being shaped similarly to the combustion chamber but smaller than said combustion chamber whereby to form therewith a relatively narrow annular air passage extending upwardly from said burners, the lower portion of said casing comprising a downwardly converging portion disposed in close proximity to said burners and projecting downwardly therefrom into said conduit whereby air passing upwardly through said conduit contacts the surface of said lower casing portion and is diverted outwardly and upwardly therealong to be heated thereby before it reaches said burners.



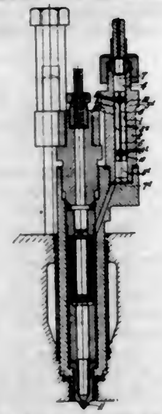
2,171,003
STRIP FEEDING AND ALIGNING MECHANISM
Carl Robert Mabon, Niagara Falls, N. Y., assignor to Gilman Fanfold Corporation, Niagara Falls, N. Y., a corporation of Delaware
Application August 17, 1936, Serial No. 96,516
60 Claims. (Cl. 197—133)



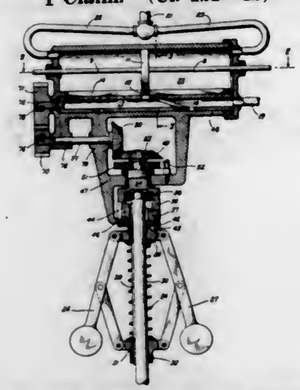
1. In a machine of the character described, in combination, strip feed pins for feeding a record or similar strip, a chain of pivotally connected links supporting said pins for movement in a path having a part lying along the strip path and another part whereat the paths of the strip and said pins deviate from each other, a support for said chain at said deviating part thereof, and attaching means attaching said pins on the chain links with the strip engaging, feed transmitting sections thereof positioned for travel in a path inside of the pitch surface of said chain and with the outer pin terminals adjacent to said pitch surface, so as to automatically ease said pins into feed transmitting engagement with the strip.

2,171,004
FILTER OR STRAINER
Thomas Clifford Makins, Lincoln, England, assignor to Ruston & Hornsby, Limited, Lincoln, England
Application February 16, 1938, Serial No. 190,866
In Great Britain January 7, 1937
4 Claims. (Cl. 210—164)

1. A liquid filter device comprising in combination a casing having a boring therein and a plug fitted into such boring, the plug having fluid passage means therethrough including a substantially axially extending passageway at one end and external cut-away portions extending longitudinally of the plug, the partition walls between said cut-away portions having ground off edges to provide relatively narrow filter openings connecting adjacent cut-away portions, at least one small transverse filtering aperture extending from said passageway to alternate cut-away portions of the plug, and a passageway at the other end of the plug in communication with alternate cut-away portions.

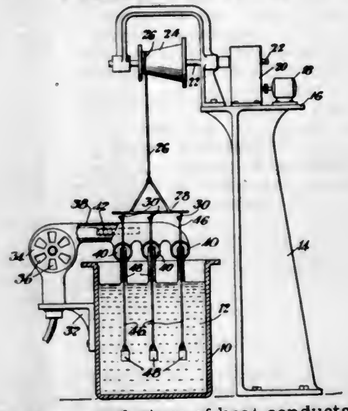


2,171,005
SPEED-RESPONSIVE DEVICE
Charles I. McNeil, Bloomfield, and Melvin E. Longfellow, Newark, N. J., assignors to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application May 5, 1936, Serial No. 78,024
1 Claim. (Cl. 121—42)



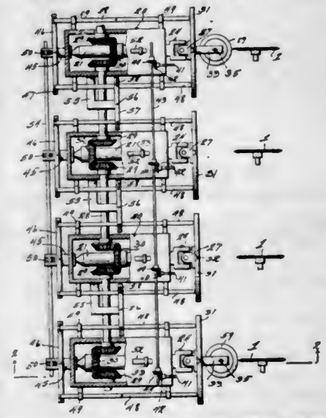
In a control apparatus, in combination, a cylinder having an inlet for fluid under pressure, a piston in said cylinder adapted to be moved first in one direction and then the other by the fluid pressure in the cylinder to actuate the device to be controlled, and speed responsive means to provide and adjustably locate a fluid outlet from the cylinder, whereby the position of the piston in the cylinder is determined, said speed responsive means being operable independently of said fluid under pressure and including a valve normally in flow inhibiting relation to said piston and cylinder but rotatable to connect one side or the other of said piston with said fluid outlet, according to the direction of rotation of said valve, said speed responsive means also including a centrifugal governor, all elements of which are mechanically separate from said piston, to prevent movements of the latter from being mechanically transmitted to said governor.

2,171,006
MANUFACTURE OF CERAMIC TUBING
John D. Morgan, South Orange, N. J., and Russell E. Lowe, New York, N. Y., assignors to Power Patents Company, Hillside, N. J., a corporation of Maine
Application July 18, 1936, Serial No. 91,346
7 Claims. (Cl. 25—156)



1. In the manufacture of heat conductant electrically non-conductant tubing, the steps comprising immersing a suitably dimensioned textile cord in a bath comprising a fluid suspension of refractory material, removing the textile cord and adhering refractory coating from the bath at a controlled rate, hardening the coating by maintaining the textile cord in a heated stream of gas as it emerges from the bath, building up the coating to a suitable wall thickness, and baking the textile cord and coating in an oxidizing atmosphere to burn out the textile cord and set the refractory forming the walls of the tubing.

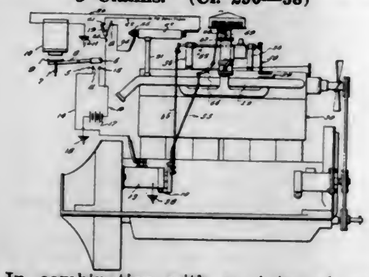
2,171,007
GLASS-ENGRAVING MACHINE
Louis E. Rice, Washington, Pa.
Application April 5, 1938, Serial No. 200,228
6 Claims. (Cl. 51—107)



1. A machine for simultaneously engraving

duplicate patterns on a number of articles, comprising in association with a plurality of engraving wheels, an article supporting means adjacent each of said wheels, each supporting means being mounted for turning movement coupling means between the article supporting means whereby all may be simultaneously moved relative to said engraving wheels, said article supporting means each being adapted for universal movement relative to the adjacent engraving wheels whereby it may be turned and may be oscillated on two perpendicularly related axes extending perpendicular to the axis of turning, and means connecting the said article supporting means which is so constructed and arranged that movement of one article supporting means on any of said axes will be transmitted to and duplicated in each of the other article supporting means.

2,171,008
ENGINE CHOKE
William S. Roberts, Anderson, Ind.
Application November 28, 1938, Serial No. 242,860
3 Claims. (Cl. 290—38)

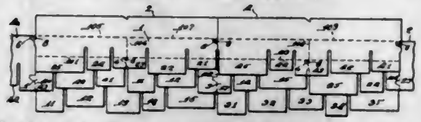


1. In combination with an internal combustion engine having an exhaust manifold, a choke valve, a starter motor, a control switch for the starter motor, and an ignition switch, of electromagnetic means operable to close the starter switch incidental to a closing of the ignition switch, a normally closed circuit make and break device connected with the exhaust manifold for operating in response to the pressure of exhaust gases for interrupting the circuit to the electromagnetic means after the internal combustion engine has been set in operation, means connected with the starting motor and the choke valve for transmitting drive from the starting motor to the choke valve for operating the latter while the starting motor is in operation, a temperature responsive device mounted on a part of the engine and means actuated thereby, when the same has been acted upon by the heat from the engine, for rendering the choke valve operating means inactive.

2,171,009
OIL REFINING PROCESS
Heliodor Rostin and Karl Schuster, Berlin, Germany
No Drawing. Application August 23, 1938, Serial No. 226,385. In Germany September 3, 1936
9 Claims. (Cl. 196—27)

1. Continuous process for treating oils consisting in conducting oil vapours with reducing gases over the oolitic ore minette in the presence of steam and at a temperature of 300° C. to 450° C., the proportion of reducing gases and steam being so adjusted that released sulfur escapes from the reaction chamber in the form of sulfuretted hydrogen and does not form permanent sulfide of iron in the chamber.

2,171,010
RANDOM THATCH ROOF CONSTRUCTION
Clyde C. Schuetz and Frank B. Burns, Chicago, Ill., assignors to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application April 15, 1938, Serial No. 202,170
7 Claims. (Cl. 108—7)



2. A roof covering comprising a plurality of dissimilar roofing strips laid in successive overlapping courses, each of said strips being of a length L and having slots therein defining shingle-simulating tabs of different widths along one edge, said widths being respectively x, x_1, x_2 . . ., the sum of said widths being equal to L; and means on each strip for indicating a predetermined offset-distance K; the value of K being less than L, unequal to x, x_1, x_2 . . ., and always unequal to any combination of consecutive x's in the same strip or adjacent strips or the differences between L and an x or any combination of consecutive x's.

2,171,011
TREATMENT OF WELLS
Paul G. Shelley, Midland, Mich., assignor to The Dow Chemical Company, Midland, Mich., a corporation of Michigan
No Drawing. Application April 25, 1938, Serial No. 204,137
4 Claims. (Cl. 166—21)

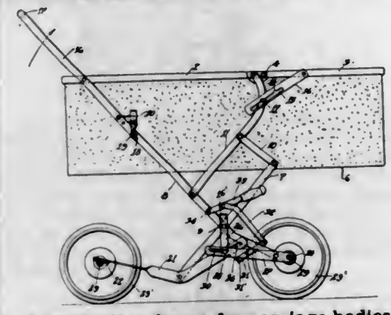
1. In a method of acidizing a well in a calcareous formation with hydrochloric acid, the steps which consist in introducing into the well and thence into the formation aqueous hydrochloric acid solution in the presence of a relatively small proportion of a furan.

2,171,012
HOSE SUPPORTER
Walter J. Spencer, Chicago, Ill.
Application August 27, 1938, Serial No. 227,195
3 Claims. (Cl. 241—5)



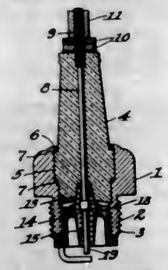
1. A hose supporter comprising a suitable length of elastic material, and a clip comprising a body portion terminating in a U shaped portion at each of its ends, the top of one U shaped portion provided with an opening composed of a central recess connected to two slightly narrower recesses adapted to hold interchangeably both ends of said elastic strip, the other U shaped portion adapted to receive slidably and removably any portion of the said elastic garter member.

2,171,013
FOLDING BABY CARRIAGE
George Stinson, Gardner, Mass., assignor to Heywood-Wakefield Company, Gardner, Mass., a corporation of Massachusetts
Application July 21, 1938, Serial No. 220,583
5 Claims. (Cl. 280—41)



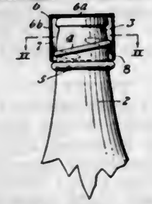
1. A supporting frame for carriage bodies comprising front and rear axles, a pair of pivotally connected side arms on each side of the carriage body, means connecting one arm of each pair to the carriage body, a handle pivoted to the carriage body and pivotally connected at its lower end to the other arm of each pair, releasable locking means for holding said other arm and the handle in predetermined relation to each other, a lever pivoted on the lower end of one arm of each pair of arms, said levers supporting one of the axles in spaced relation to the pivotal connection of the levers to the arms, and means for supporting said levers at a point spaced from the axle, said means being spaced from the pivotal connection of each pair of side arms.

2,171,014
SPARK PLUG
Marion Thomen, Baltimore, Ohio
Application March 1, 1939, Serial No. 259,207
6 Claims. (Cl. 123—169)



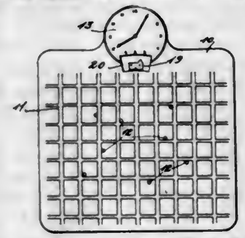
1. In a spark plug, a sleeve-like shell having a reduced threaded extension formed for reception by the spark plug opening of an engine cylinder, a primary insulator rigidly secured to said shell and projecting from one end thereof, a current-conducting stem having threaded ends extending axially through said insulator, a removable insert carried by the shell, said insert having a thimble-like body with a closed inner end, a secondary insulator extending through the end wall of said body, a center electrode extending axially through said secondary insulator, the inner end of said electrode being internally threaded to receive the threaded end of said stem, and a ground electrode extending from said body and terminating adjacent to the center electrode.

2,171,015
BOTTLE CAP OR THE LIKE
Charles C. Webb, Wheeling, W. Va., assignor to Wheeling Stamping Company, Wheeling, W. Va., a corporation of West Virginia
Application January 29, 1936, Serial No. 61,342
2 Claims. (Cl. 215—43)



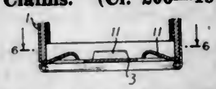
2. The combination with a receptacle having a neck on which is a screw thread, of a plastic cap engaging the neck, said cap having an internal diameter greater than the maximum diameter of the threaded neck and having an inwardly extending button-like projection for cooperation with the thread, the internal diameter of the cap and the thickness of the walls thereof being such as to permit the projection to move radially outward and snap over the thread to prevent the cap from splitting when it is screwed down tightly on the thread.

2,171,016
SIGN
Coy W. Williamson, Carlsbad, N. Mex.
Application March 14, 1939, Serial No. 261,807
6 Claims. (Cl. 40—34)



1. In combination, a map board having a sight opening, display means behind said board including a series of display fields adapted to move successively into registry with said opening, lamps arranged on the map board at map locations each associated with a respective display field, a revolvable casing behind said board and having the display fields arranged on the front thereof in circular series, and means to revolve said casing and simultaneously close an electric circuit through the lamp corresponding in map location to the field displayed.

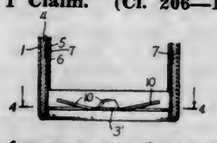
2,171,017
CARTON FOR WAX RECORDS
Robert E. Worden, Fairfield, Conn., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application April 28, 1938, Serial No. 204,784
2 Claims. (Cl. 206—15)



1. A carton for wax sound records or the like comprising an outer wall having one end turned inwardly to form a seat, a bottom wall of resili-

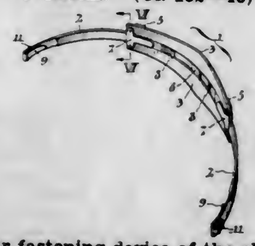
ent material having edge portions supported on said seat and an inner wall within said outer wall and having edge portions engaging said bottom wall to retain it on said seat, said bottom wall having cushioning portions in the form of tabs biased inwardly and having their free ends spaced from and overlying adjacent openings in said bottom wall, and means operating between the tabs and said openings to limit the extent of movement of said tabs toward said openings.

2,171,018
CARTON FOR WAX RECORDS
Robert E. Worden, Fairfield, Conn., assignor to Dictaphone Corporation, New York, N. Y., a corporation of New York
Application June 1, 1938, Serial No. 211,118
1 Claim. (Cl. 206—15)



A carton for wax sound records or the like comprising an outer wall having one end turned inwardly to form a seat, a bottom wall of resilient material having edge portions supported on said seat and an inner wall within said outer wall and having edge portions engaging said bottom wall to retain it on said seat, said bottom wall having cushioning portions in the form of tabs biased inwardly and having their free ends spaced from and overlying adjacent openings in said bottom wall.

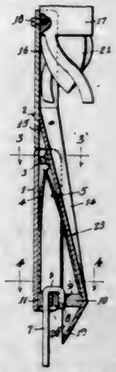
2,171,019
HAIR-FASTENING DEVICE
William Zupnyk, Philadelphia, Pa.
Application November 22, 1938, Serial No. 241,741
5 Claims. (Cl. 132—46)



1. A hair fastening device of the character described comprising a central arcuate section of resilient material including two members spaced apart to form an elongated slot between them, and arcuate wing sections adapted to fit within said slot and to form continuations of the ends of the central section, said wing sections being flexibly and extensibly mounted in said slot.

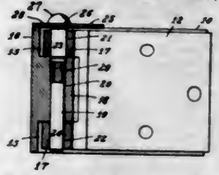
2,171,020
WHIP STOCK
Sherman G. Ackley, Bakersfield, Calif., assignor to Peoples Finance and Thrift Company of Bakersfield, Bakersfield, Calif., a corporation of California
Application December 18, 1937, Serial No. 180,603
5 Claims. (Cl. 255—1)

1. In a whipstock for deflecting a drilling tool in a well to change the direction of the well bore, the combination of a guide member and a pusher member pivotally attached thereto, one of said members having an extension at its upper end for attachment to the side of a drill collar on a drill string, said extension lying adjacent the side of the well bore so as to leave the well bore unobstructed for the passage of a drilling tool, resilient means urging the said members apart and toward an extended relation at their lower ends,



and a latch for latching said members in an unextended relation while passing down the well, said latch having means for engaging the well bottom or an obstruction in the well bore to release the same, to enable the pusher member to engage one side of the well bore and cooperate with the resilient means to force the lower end of the other member laterally in the well.

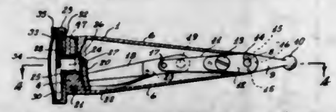
2,171,021
HINGE
Seth B. Atwood, Rockford, Ill.
Application April 19, 1937, Serial No. 137,699
4 Claims. (Cl. 16—148)



4. A covered joint hinge comprising inner and outer hinge members having interfitting knuckles, the outer member having a cover portion, a headed pintle entered in registering holes in said knuckles, working freely in upper and lower knuckles of the inner member and non-rotatable in the intermediate knuckle of the outer member, and a cover plate supported on the cover portion on the outer member on diametrically opposite sides of the pintle and having the pintle entered non-rotatably in a hole provided therein, whereby said pintle, plate and outer hinge member form a rigid unitary assembly.

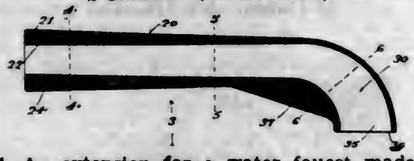
2,171,022
INDICATOR
Harry F. Brown, Detroit, Mich.
Application June 3, 1937, Serial No. 146,145
9 Claims. (Cl. 33—172)

1. An indicator comprising a housing, a contact finger pivotally mounted in said housing, an indicator hand, and a linkage connecting said finger and said hand, said linkage comprising a link having a gear segment secured to one end thereof and a gear wheel rotatably mounted in said casing in continuous mesh with said gear segment, said gear wheel being of bi-conical shape with one face thereof being toothed and the other face thereof being smooth, a conical bearing for said smooth face, and spring means co-acting with said sector to constantly press said smooth face against its bearing.



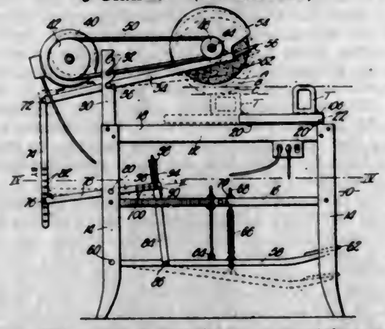
7. An indicator comprising a casing or frame, a work contacting finger, an indicator hand, motion multiplying means connecting said finger and said hand including a gear wheel to the shaft of which said hand is secured, a bearing positioned in one wall of said casing, a dial for said hand, and a housing for said dial and said hand, said shaft being rotatable in said bearing, said housing being rotatable on said bearing.

2,171,023
RUBBER FAUCET EXTENSION
Jay Buxton, Hawthorne, Calif.
Application December 19, 1938, Serial No. 246,534
2 Claims. (Cl. 299—154)



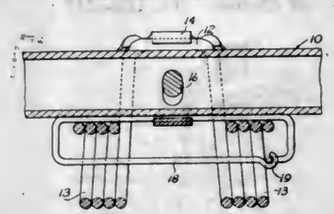
1. An extension for a water faucet made of tubular rubberlike material having a main portion to occupy substantially a horizontal position and with a circular end with thick walls for connection to the faucet, the discharge end having a downwardly curved nozzle with an orifice, the walls tapering towards the orifice and adjacent the orifice, the vertical side walls being substantially flat whereby a narrow orifice is formed, the walls adjacent the orifice being sufficiently flexible to be pressed inwardly by hand to contract the opening at the orifice.

2,171,024
TILE CUTTING MACHINE
Neligh Clair Coates, Kansas City, Mo.
Application January 19, 1938, Serial No. 185,708
6 Claims. (Cl. 125—13)



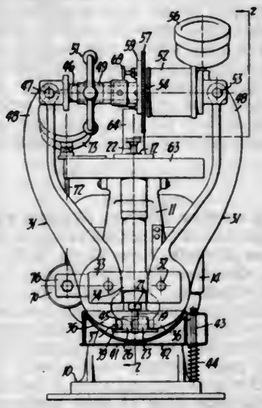
1. A tile cutting machine comprising a base having tracks and fixed standards; a platform pivotally and vertically adjustably mounted for oscillation on said standards; a cutting blade carried by said platform above said base; means for operating said cutting blade; a tile supporting carriage mounted for free rectilinear movement along said track beneath said cutting blade; a foot operated lever resiliently interconnected with said platform and operable to move said cutting blade toward said base; and resilient means whereby said cutting blade is moved away from said base.

2,171,025
RAKE TOOTH CONSTRUCTION
Charles F. Crumb, Chicago, and Edward Mowry, Rock Falls, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application March 19, 1938, Serial No. 196,967
4 Claims. (Cl. 56—400)



1. In a rake construction comprising a carrying bar, a pair of rake teeth having coils therein and being integrally joined to one another at a common central section, and means securing the rake teeth to the bar at the common central section, the combination therewith of an additional securing means for said teeth comprising a wire element in the form of a loop attached to the bar and interlinked with the coils of the teeth.

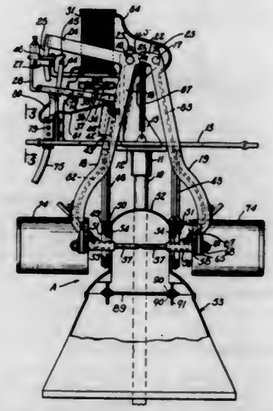
2,171,026
OIL TESTING APPARATUS
Charles C. Curtis, Oakland, Calif., assignor to Halstead Products Company, Oakland, Calif., a corporation of California
Application March 16, 1937, Serial No. 131,201
12 Claims. (Cl. 265—10)



1. In an oil testing apparatus of the character described, a test pin having a smooth cylindrical surface, a pair of bearing members, each of said bearing members having two parallel and planar bearing faces, formed on opposite ends of the same, means for retaining said bearing members on diametrically opposite sides of the pin with

said bearing members in alignment and with the faces of the two bearing members in parallelism, whereby adjacent parallel bearing faces of the two bearing members contact the cylindrical surface of the pin along parallel and diametrically opposite lines, and means for applying force to said bearing members tending to urge the same against said pin, said last means engaging the remote faces of said bearing members along lines lying in a plane coincident with the line of center of said bearing members and disposed at right angles to the axis of the pin.

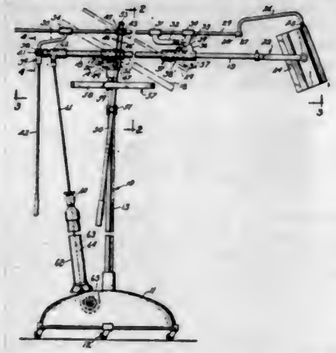
2,171,027
ARC LAMP
Joseph Gelb, New York, N. Y.
Application June 1, 1935, Serial No. 24,483
18 Claims. (Cl. 176—55)



1. In an arc lamp, the combination of, supporting means, a reflector secured to said supporting means, holders having means for removably sustaining a pair of electrodes substantially in axial and horizontal alinement, horizontally spaced and vertically arranged pivotally interconnected bell crank levers swingably carried by said supporting means, spring means connected to said supporting means and at least to one of said levers for equalizing the combined weight of said levers, electrically controlled means for actuating said levers to separate said electrodes to define an arc gap, and adjustable means to limit separation of said electrodes.

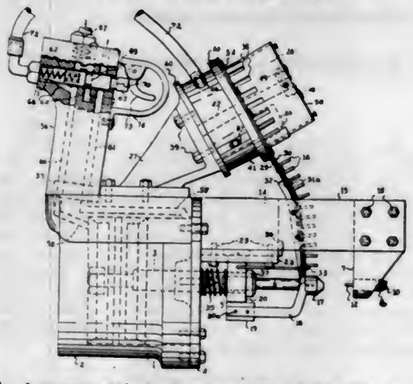
2,171,028
STAND FOR SUPPORTING LIGHT PROJECTING OR LIGHT RECEIVING UNITS
Joseph Gelb, New York, N. Y.
Application October 15, 1935, Serial No. 45,019
8 Claims. (Cl. 248—123)

1. In a stand, a base, a column carried by said base, a sleeve connected to the column, an arm rotatably guided by the sleeve, a pivoted connection between said column and sleeve for tilting the arm relatively to the column, a holding member secured to one end of said arm, a housing, means for pivotally holding said housing to the holding member, an elongated slidable rod, a link interposed between said housing and rod, means for pivotally connecting one end of the link to the housing, means for pivotally connecting another end of said link to the rod, and manipulable means connected to said rod for displacing the latter in respect to said arm for changing the angular relation of the link in respect to said rod



for tilting said housing relatively to said holding member.

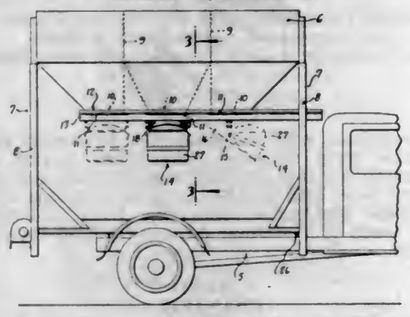
2,171,029
PNEUMATIC TOOL
Silver Geldhof, Detroit, Mich.
Application February 2, 1937, Serial No. 123,648
18 Claims. (Cl. 218—19)



1. A pneumatic tool comprising a headed cylinder, a rod slidably extending through a head of said cylinder, a piston reciprocatory in the cylinder and having a drive connection to said rod, a pressure applicator carried by the rod exteriorly of the cylinder, and projecting beyond the rod, a pair of jaws for holding a headed fastener during its initial actuation by the applicator, a pair of supporting arms for said jaws yieldable to afford the jaws a separative travel as the applicator is advanced between the jaws, a carrier for said arms slidable on said rod to afford the applicator and said jaws a relative travel, and means carried by the rod, effective on the carrier, to move it in unison with the rod, during a predetermined portion of the rod travel.

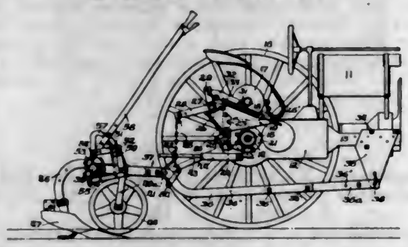
5. In a pneumatic tool for applying work pieces, a hopper carrying a supply of the work pieces and having an outlet, an applicator, means for delivering work pieces from said outlet to the applicator, a compressed air motor driving the applicator, a second compressed air motor, means driven by the second motor for agitating the contents of the hopper to facilitate discharge thereof through said outlet, and means for delivering air exhausted from the first motor to drive the second motor.

2,171,030
AUTOMOBILE TRUCK
Michael V. Gilson, Fredonia, Wis., assignor to Gilson Brothers Company, Fredonia, Wis., a corporation of Wisconsin
Application February 11, 1938, Serial No. 190,014
7 Claims. (Cl. 298—7)



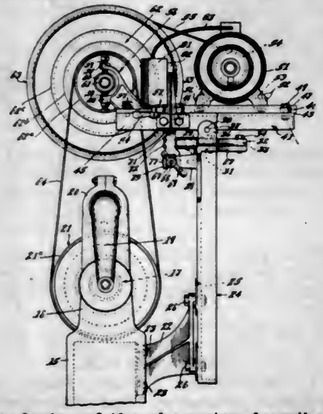
1. In combination with an automobile truck having a chassis: a hopper body divided into a number of separate compartments, each of which has its own discharge port at the bottom thereof; means mounting the body from the chassis for movement between an elevated unloading position and a lowered traveling position at which the discharge ports lie close to the chassis; a single discharge chute; and means mounting the discharge chute from the body for movement longitudinally of the body into alignment with the discharge port of any one compartment and to a position beyond one end of the body and into a space lying above the chassis of the truck so as to enable complete lowering of the body onto the chassis without regard for special space provision for the discharge chute between the body and the chassis.

2,171,031
TRACTOR IMPLEMENT
William S. Graham and James L. Hipple, Canton, Ill., assignors to International Harvester Company, a corporation of New Jersey
Application December 30, 1937, Serial No. 182,459
15 Claims. (Cl. 97—47)



1. In combination, a tractor, an implement frame directly connected to the tractor, depth gauge wheel means for supporting the frame in its ground position, said frame being of the type adapted for the attachment of different kinds of working tools, each kind of tool requiring a different transverse setting of the gauge wheel means, and means for mounting the gauge wheel means in a plurality of positions longitudinally of the frame for adjustment into transverse alinement with the particular working tool being used including means for maintaining the transverse alinement of the gauge wheel means upon depth adjustment of the same.

2,171,032
MOTOR MOUNTING FOR MACHINE FRAMES
Emil B. Guze, Chicago, Ill., assignor to Quality Hardware & Machine Corporation, Chicago, Ill., a corporation of Illinois
Application March 29, 1937, Serial No. 133,626
13 Claims. (Cl. 248—16)



1. In a device of the character described comprising a pedestal, a bracket adapted to be mounted on a machine member, said pedestal being vertically adjustable on the bracket, a plate horizontally adjustable on said pedestal laterally and forwardly and backwardly, a frame pivotally mounted on said plate and means to pivot said frame on said plate, said means including a cam adjustably carried by the plate and engageable with the frame.

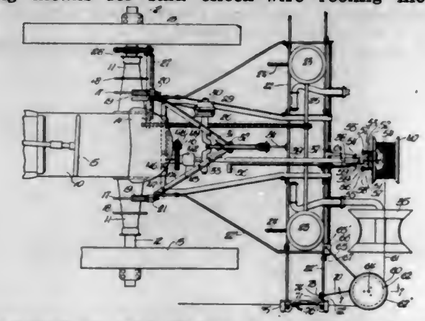
2,171,033
PROCESS OF CONTACTING HYDROCARBON VAPORS WITH ZINC CHLORIDE
Franklin E. Kimball, Los Angeles, Calif.
No Drawing. Application May 14, 1938, Serial No. 207,956
3 Claims. (Cl. 196—36)

1. A process which comprises contacting hydrocarbon vapors containing gum-forming impurities with a fused treating-mixture containing approximately 70% $NH_4Zn_2Cl_5$ to prevent separation of $ZnCl_2$ and containing approximately 30% $ZnCl_2$ to prevent separation of $NH_4Zn_2Cl_5$ at a temperature below 480 degrees Fahrenheit and at a temperature above the fusion-temperature of the treating-mixture, supplying $NH_4Zn_2Cl_5$ and $ZnCl_2$ to the treating-mixture, separating and withdrawing the contacted hydrocarbon vapors from the treating-mixture, withdrawing from the treating-mixture a mixture of $NH_4Zn_2Cl_5$ and $ZnCl_2$ containing products of treatment, partially liquefying the withdrawn hydrocarbon vapors to degum the hydrocarbon vapors, separating and withdrawing the degummed hydrocarbon vapors from the gum-containing hydrocarbon liquid and withdrawing the gum-containing hydrocarbon liquid.

2,171,034
TRACTOR ATTACHED IMPLEMENT
George M. Kriegbaum and Clarence C. Haas, Richmond, Ind., assignors to International Harvester Company, a corporation of New Jersey
Application September 4, 1936, Serial No. 99,358
20 Claims. (Cl. 111—44)

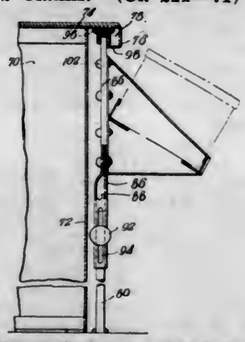
1. The combination with a planter of the

check-wire type having a laterally positioned check-head, of a centrally positioned check-wire reeling means on said planter, and a level-winding means for said check-wire reeling means



mounted on said planter and positioned rearwardly with respect to the aforesaid check-head and laterally with respect to said check-wire reeling means.

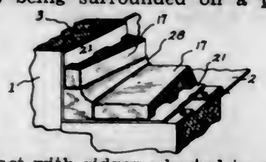
2,171,035
DISPLAY RACK
George C. Macdonald, Boston, Mass., assignor to Megowen-Educator Food Company, Cambridge, Mass., a corporation of Massachusetts
Application August 24, 1937, Serial No. 160,631
2 Claims. (Cl. 211—71)



1. A display rack for cracker boxes, comprising a pair of end brackets having substantially triangular body portions provided on one side with flanges engageable with a vertical support to which the brackets are attachable, and a pair of L-shaped rails fixed at their ends to the respective brackets and holding them in spaced parallel relation, one rail being thus connected to the brackets at the lower front corner thereof and the other rail being attached to the body portions of the brackets intermediate the top and bottom thereof and in engagement with said flanges at the backs of the brackets, said rails being so positioned as to engage the bottoms, fronts and backs of the cracker boxes and thus to hold the boxes in forwardly inclined positions and to prevent accidental forward displacement thereof.

2,171,036
BREAKER STRIP AND FITTING
Roland H. Money, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio
Application May 25, 1937, Serial No. 144,696
1 Claim. (Cl. 220—9)

A fitting for a breaker strip installation comprising a body of a length slightly greater than the width of the breaker strip material with which it is to be used, said body being substantially rectangular in cross section and having adjacently disposed faces shaped to conform to the cross section of said breaker strip material, said faces being surrounded on a plurality of



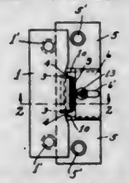
sides at least with ridges adapted to overlap said breaker strip material, said fitting having an arcuately concave configuration between said adjacent faces and said fitting being provided with hollowed portions in the other faces to accept the heads of fastening devices for said breaker strips.

2,171,037
PLANTER
Vinton Mahurin, Novinger, Mo.
Application November 30, 1938, Serial No. 243,243
2 Claims. (Cl. 111—92)



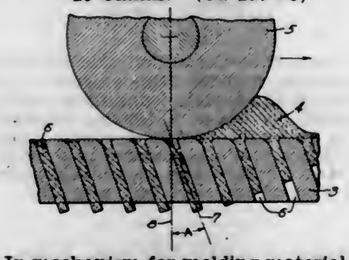
1. A planter including an elongated rigid spout having an inlet at one end and an outlet at its other end, said spout being tapered toward the outlet, a bracket extending laterally from the spout near its inlet end, a ring extending from the spout above said bracket, and a container removably mounted in the ring and on the bracket, said container constituting a seed holder.

2,171,038
SEPARABLE HINGE
Alpheus R. Martindale, Cambridge City, Ind.
Application November 8, 1937, Serial No. 173,323
4 Claims. (Cl. 16—172)



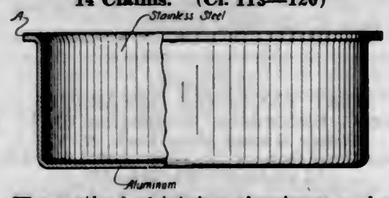
2. In a separable hinge, an escutcheon plate having an elongated slot formed therethrough, a slidable plate adjustably secured to the escutcheon plate and located adjacent the elongated slot and slidable thereover, a swingable hinge member having a strap with shoulders formed thereon and extending therefrom, with the strap extending through the elongated slot of the escutcheon plate, and with the slidable plate removably securing the strap in the elongated slot by bearing against the shoulders of the strap.

2,171,039
MECHANISM FOR MOLDING MATERIAL
Edgar N. Meakin, San Francisco, Calif.
Application December 27, 1937, Serial No. 181,732
10 Claims. (Cl. 107—8)



1. In mechanism for molding material, two cooperative relatively movable members, the first of which is provided with a relatively smooth surface upon which material may be received for compression by the second of said members upon relative movement therebetween, said first member having a plurality of apertures therein for the passage of material under pressure, and each of said apertures having its axis inclined toward the force-applying side of said second member.

2,171,040
COMPOSITE SHEET METAL BODY AND METHOD OF PRODUCING THE SAME
Richard S. Merritt, Charleston, S. C., and Fred Keller, New Kensington, Pa., assignors to Aluminum Company of America, Pittsburgh, Pa., a corporation of Pennsylvania
Application August 31, 1938, Serial No. 227,824
14 Claims. (Cl. 113—120)

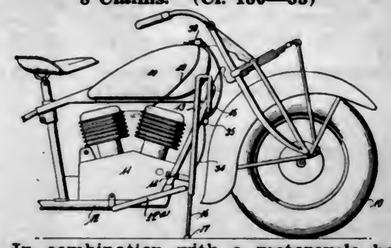


1. The method of joining aluminum and stainless steel sheets, comprising heating said sheets in contact with each other to a temperature of about 600 to 900° F, subjecting said heated contacting sheets to a continuous pressure to produce at least a 5 per cent reduction in the combined thickness of the sheets, and afterwards reheating the joined sheets to a temperature of about 600 to 900° F.

2,171,041
FLUX FOR WELDING MAGNESIUM AND MAGNESIUM ALLOYS
Josef Martin Michel, Bitterfeld, Germany, assignor, by mesne assignments, to Magnesium Development Corporation, a corporation of Delaware
No Drawing. Application February 6, 1937, Serial No. 124,465. In Germany December 14, 1934
10 Claims. (Cl. 148—26)

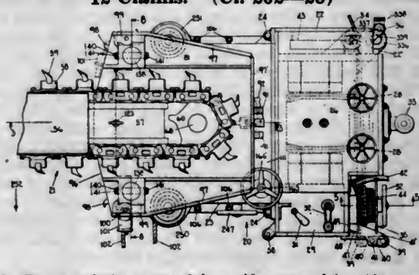
10. In a method of welding magnesium and its alloys the step comprising, applying to the seat of the weld a flux comprising at least one inorganic halide which is non-volatile at temperatures at which welding is carried out, and a compound selected from the group consisting of phosphoric, oxalic, and boric acids and the acid-reacting salts of such acids capable of reacting with said inorganic halide at the welding temperature so as to cause volatilization of the halogen hydracid derived from said inorganic halide, with formation of non-gaseous reaction products having no corrosive action upon the metal to be welded.

2,171,042
VEHICLE STAND AND GUARD
Clarence S. Minton, Laurel, Miss.
Application June 16, 1937, Serial No. 148,579
8 Claims. (Cl. 180—33)



3. In combination with a motorcycle having an internal combustion engine, a guard structure including tubular members on each side of the frame of said motorcycle rigidly connected thereto and having substantially vertical and parallel portions, rods housed within said substantially vertical and parallel portions and adapted to be lowered into contact with the roadway to maintain said vehicle in an upright stationary position, a piston connected to the upper end of each of said rods to form a sealed chamber within each of said tubular members, and means including a manually operable control mechanism for connecting each of said tubular members to the intake manifold of said engine.

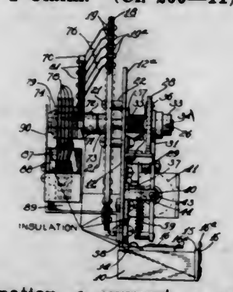
2,171,043
MINING MACHINE
Lewis E. Mitchell, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Application April 25, 1936, Serial No. 76,456
12 Claims. (Cl. 262—28)



1. In a mining machine, the combination with a supporting frame, of cutting mechanism mounted thereon for adjustment in elevation relative thereto, guide means connected between said frame and said cutting mechanism and comprising a cylinder rigidly connected to said frame with a cylindrical enlargement at its lower end to form an annular abutment intermediate its ends, a

floating hollow cylinder within said first-named cylinder and having at its lower end an annular outwardly projecting flange adapted to slide along said cylindrical enlargement and abut against said annular abutment to limit the upward movement of said floating cylinder, a cylinder connected to said cutting mechanism to move up and down therewith, means connecting said last-named cylinder to said floating cylinder to effect lifting of the latter after the cutting mechanism has been lifted a predetermined distance from its lowermost position, means for elevating said cutting mechanism with respect to said frame, and means for operating said cutting mechanism in its adjusted position.

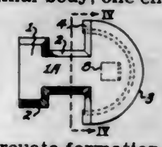
2,171,044
SWITCH
Marvin Nelsen and Thedore Obszarny, Chicago, Ill., assignors to Guardian Electric Manufacturing Co., Chicago, Ill., a corporation of Illinois
Application March 9, 1937, Serial No. 129,930
1 Claim. (Cl. 200—11)



In combination, a support, a panel member carried by the support and having a plurality of concentric series of spaced-apart insulated contact buttons on one face, conductor wires connected to said buttons, a shaft extending through the support and panel member, an arm member of insulating material mounted on said shaft, a contact finger for each series of buttons, said fingers being mounted on said arm and having their free ends adapted to engage said buttons, a plurality of axially spaced-apart current collector rings mounted on the shaft, means insulating said rings from each other and from the shaft, electrical conductors connecting each finger with one of said rings, said rings and insulating means therefor being secured to said arm member to form a unitary assembly, said assembly being provided with a plurality of axially aligned openings to form ducts through which said last-mentioned conductors extend for connection to the respective rings, pick-up fingers carried on the support and engageable with the respective rings, means insulating said pick-up fingers from each other and the support, and electrical conductors connected to the respective pick-up fingers for completing portions of certain electrical circuits through the engaged contact buttons, one of said members being shiftable about the axis of the shaft for aligning said contact fingers with other contact buttons.

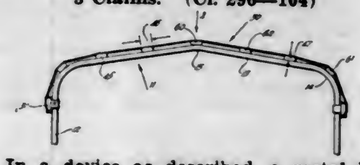
2,171,045
DETACHABLE REPAIR SHOE HEEL MEMBER
Harry A. Ohstrom, Detroit, Mich.
Application May 19, 1938, Serial No. 208,780
2 Claims. (Cl. 36—36)

1. In combination with a shoe heel having a longitudinally disposed body, side portions extending downwardly below the plane of said body having inwardly directed end portions having a female ledge, also one end of the body extended to an arcuate formation and having an arcuate male ledge for this portion; a detachable member, a longitudinal body, one end of said body ex-



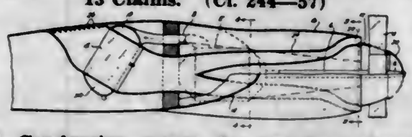
tended to an arcuate formation, said arcuate formation having arcuate female ledge, a neck within said body, a male ledge upon said neck and the front portion of said body; the elements defined in aforesaid shoe heel adapted to conjoin with corresponding elements in the detachable member whereby said member becomes an intergral part of the shoe heel aforesaid.

2,171,046
TOP CONSTRUCTION
Jesse W. Park, Los Angeles, Calif.
Application January 17, 1938, Serial No. 185,375
3 Claims. (Cl. 296—104)



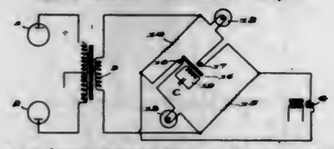
1. In a device as described, a metal bracket channel shaped in vertical cross section and including a web, an upper and a lower flange, a rim extending upwardly from the lower flange parallel to the web, the upper flange being of less length than the lower flange and a clamp connected to the web adapted for attachment to a bow, the said channel being open opposite the web between the upper edge of the rim and the outer edge of the upper flange.

2,171,047
HEAT EXCHANGE APPARATUS
Holden C. Richardson, Washington, D. C., and Henry Kampf, New York, N. Y.
Application February 24, 1937, Serial No. 127,356
13 Claims. (Cl. 244—57)



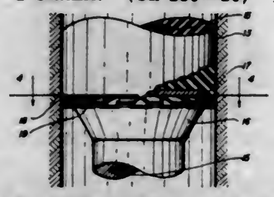
1. Condensing means for use in condensing steam in steam-driven aircraft having a propeller and a driving shaft therefor, said condensing means comprising, in combination, banks of steam condensing tubes extending concentrically about the axis of the propeller shaft and a conduit for condenser cooling air of annular cross section to and through said condensing means having an annular intake behind said propeller to receive a portion of the slip stream therefrom and having a discharge so located as to discharge the air into a low pressure area, said banks of condensing tubes forming an annular structure filling a cross sectional zone of said conduit of substantially greater cross section than the intake part of said conduit.

2,171,048
CIRCUITS FOR MORE NEARLY PERFECT SOUND REPRODUCTION
Ronald J. Rockwell, Cincinnati, Ohio, assignor to The Crosley Corporation, Cincinnati, Ohio, a corporation of Ohio
Application August 28, 1936, Serial No. 98,428
18 Claims. (Cl. 178—44)



2. In a volume expander an input-output circuit and a resistance means shunting said circuit and having the characteristic of increasing its resistance upon increase of the impressed voltage and means for reflecting a large capacity effect into said shunting means.

2,171,049
SHOE FOR OIL WELL PACKERS
John T. Simmons, Casper, Wyo., assignor to Halliburton Oil Well Cementing Company, Duncan, Okla.
Application June 10, 1938, Serial No. 212,881
4 Claims. (Cl. 166—10)



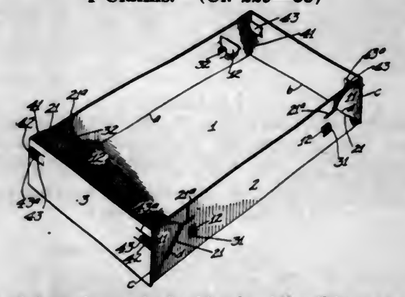
1. A shoe for rubber packers or the like adapted for use in oil wells, including a plurality of saucer-shaped members disposed one above another, said members being made of spring steel and having a number of radial slots therein, the slots in one member being staggered with respect to those in another member, the arrangement being such that upon pressure being exerted on said members, they expand radially and provide means for preventing the packer from flowing or creeping past the shoe thereof.

2,171,050
CUTTING DEVICE FOR FISHERMEN
Edward D. Slawson, Bay City, Mich., assignor to Leo D. Goddeyne, Bay City, Mich.
Application October 24, 1938, Serial No. 236,726
4 Claims. (Cl. 30—317)



1. A cutting device adapted to be detachably mounted on a support, and comprising an angularly shaped cutting section, the end of said section being reversely bent and terminating in a centrally disposed shank depending therefrom and disposed in vertical alignment with the apex of the cutting section a cord anchored to said shank, and means on device for detachable engagement with the line guide of a flyrod to permit the device to be placed over the twig to be cut.

2,171,051
FOLDING PAPER BOX
William E. Stonecypher, Los Angeles, Calif., assignor of one-half to F. L. M. Holding Company, Los Angeles, Calif.
Application September 8, 1937, Serial No. 162,864
4 Claims. (Cl. 229—35)



1. A box, formed of a blank of flexible material, having a bottom and normally bent up side and end flanges united at the ends, said flanges being foldable inwardly about their lower edges against the inside of the bottom, the side flange having an angular slit, an end of one end flange having a flap extending around the end portion of the adjacent side flange, said flap having an anchoring terminal extending through the angular slit from the outer to the inner side of the side flange, the juncture between the flap and the anchoring terminal being scored on a line extending at an angle of 45° through the intersection of the lower edges of the end and side flanges, and said angular slit extending in the same direction of and being substantially coincident with said scored line.

2,171,052
WELDING SHIELD
Louis G. Tatter, Chicago, Ill.
Application January 28, 1938, Serial No. 187,415
6 Claims. (Cl. 2—8)



1. In a shield or helmet, to prevent light from injuring the eyes, a body, a window frame in the front of said body, with vertically movable and fixed glass therein, guides for the vertically movable glass, a housing secured to the front of said body, below said frame, with the upper end

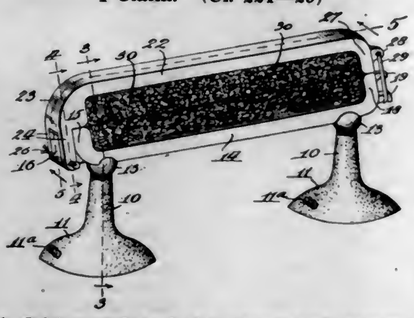
portion of said housing forming a chamber to receive and conceal the movable glass, an electric solenoid enclosed in the lower end portion of said housing, practically entirely outside said body, a vertical rod operated by said solenoid, to actuate said movable glass up and down, a hand switch having cord connection with a source of current and with said solenoid, obviating the necessity of using any electric switching means inside the body to cause reciprocation of said rod, and a spring on said rod co-operating with said solenoid to effect said reciprocation, all on the outside of said body, having a latch operable in a horizontal plane on the bottom of said housing to laterally engage and hold said rod down.

2,171,053

FISHING ROD AND SKI CLAMP AND CARRIER

Roger White, Lynwood, and William C. Daniels, Huntington Park, Calif.; said Daniels assignor to said White

Application July 6, 1937, Serial No. 152,110
1 Claim. (Cl. 224—29)



A fishing rod and ski clamp and carrier for use on smooth finished surfaces, comprising a pair of rubber posts, vacuum suction cups formed on the lower ends of said posts, reinforcing members extending lengthwise through said posts and projecting from the upper ends thereof, a lower frame channel-shape in cross section and having upturned ends, which frame is detachably secured to the projecting upper ends of the reinforcing members in said posts, a lug projecting from one end of said lower frame, said lug being provided with a pair of apertures, one arranged above the other, a pair of spaced lugs projecting from the other end of said lower frame, one lug positioned above the other, a strip of sponge rubber carried by said lower frame, an upper frame channel-shape in cross section and having depending end portions, a strip of sponge rubber carried within said upper frame, a pair of ears depending from one end of said upper frame and provided with apertures that are adapted to coincide selectively with either one of the apertures in the lug on the lower frame, a pin adapted to be seated in the apertures in said ears and selectively in either one of the apertures in said lug and a link pivotally mounted on the other end of the upper frame for engaging selectively either one of the pair of lugs projecting from the end of the lower frame.

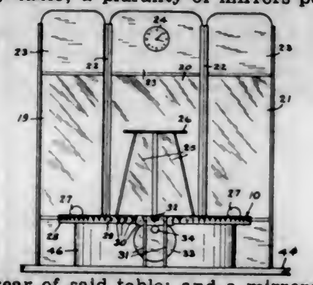
2,171,054

APPARATUS FOR DISPLAYING AND ADVERTISING MERCHANDISE

Louis H. Williams, Seattle, Wash.

Application November 16, 1938, Serial No. 240,692
7 Claims. (Cl. 40—33)

1. Apparatus of the class described for displaying and advertising merchandise comprising a rotary table; a plurality of mirrors positioned



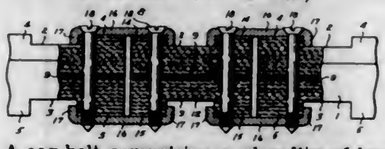
at the rear of said table; and a mirrored tower structure extending upwardly from the central portion of said table.

2,171,055

BELT AND BELT CONNECTOR

Abraham Lincoln Freedlander, Dayton, Ohio, assignor to The Dayton Rubber Manufacturing Company, Dayton, Ohio, a corporation of Ohio

Original application January 14, 1937, Serial No. 120,555. Divided and this application July 12, 1937, Serial No. 153,205
10 Claims. (Cl. 74—233)



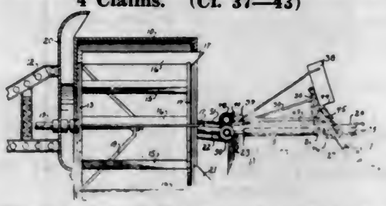
1. A cog belt comprising a plurality of lengths of belt material reinforced with longitudinally inextensible flexible mesh, said lengths of belt material having their ends connected by clamping members secured to the end portions thereof by members extending through the mesh.

2,171,056

SNOW PLOW

John E. Clay, Berwick, Iowa

Application February 5, 1938, Serial No. 188,882
4 Claims. (Cl. 37—43)



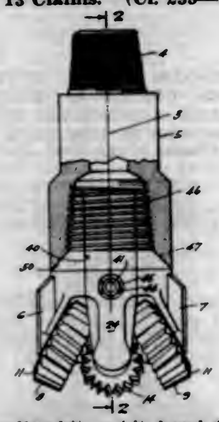
1. In a device of the class described, a substantially cylindrical housing designed to be secured to the forward end of an automotive vehicle, an intake opening in the forward end of said housing, a lip adjacent the lower peripheral edge of said opening and extending forwardly of said housing, two spaced apart parallel rings in said housing, a means for rotatably supporting said rings in said housing, a plurality of parallel vanes about the inner peripheral edges of said rings extending inwardly, a plurality of parallel vanes about the outer peripheral edges of said rings extending outwardly, lugs integrally formed on said last mentioned vanes extending forwardly and through said intake opening in said housing, and an outlet opening adjacent the upper side of said housing.

2,171,057

ROLLER BIT

Roland R. Crum, Whittier, Calif., assignor of one-fourth to Edwin A. Perkins and three-eighths to Frank W. Brainard, both of Whittier, Calif.

Application March 14, 1934, Serial No. 715,504
13 Claims. (Cl. 255—71)



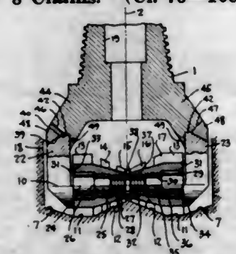
1. In a roller bit, a bit head frame having a pair of integrally joined roller supporting arms at opposite sides of the frame, and a pair of detachable roller supporting arms, each of said arms being accommodated in a groove in the bit head frame, respectively between the integrally joined arms, said groove having parallel sides a screw thread being formed on the upper part of said frame and said arms, the latter forming portions of a continuous screw thread.

2,171,058

METHOD OF MANUFACTURING ROLLER BIT STRUCTURE

Roland R. Crum, Whittier, Calif., assignor of one-fourth to Edwin A. Perkins and three-eighths to Frank W. Brainard, both of Whittier, Calif.

Original application March 18, 1935, Serial No. 11,650, now Patent No. 2,116,561, dated May 10, 1938. Divided and this application January 17, 1938, Serial No. 185,291
8 Claims. (Cl. 76—108)



1. The process of manufacturing a roller bit structure which comprises integrally joining, to each of the two arms, a pin member, placing a roller cutter over each pin member, coupling the free ends of both pin members to provide a definite spacing between the arms, and then attaching said assembled arms and cutters to a frame.

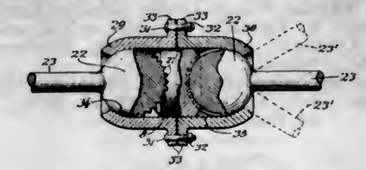
2,171,059

UNIVERSAL JOINT

Harry J. De Coudres, Chicago, Ill.

Application March 9, 1938, Serial No. 194,907
3 Claims. (Cl. 64—7)

3. A universal joint, comprising in combination two toothed ball members, an intermediate member having teeth cut at right angles on opposed faces, and adapted to mesh with said



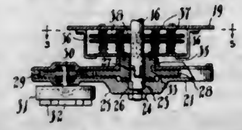
toothed ball members, and a housing, made of two sections, adapted to hold in operative assembly said ball members and the said intermediate member.

2,171,060

FLOOR SURFACING MACHINE

Giles De Spirt, Toronto, Ontario, Canada

Application February 18, 1939, Serial No. 257,067
4 Claims. (Cl. 51—177)



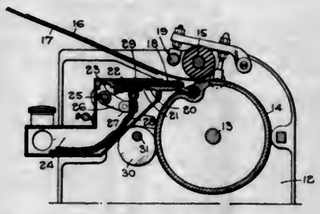
1. In a machine of the class described, a head comprising a fixed support, a driving shaft extending therefrom, a shoe extending transversely of the shaft, means extending radially of the shaft and providing a concentric journal for the shoe, retaining devices seating said means, springs urging said means against said retaining devices in an outward direction to counteract thrust on the shoe, and means providing a flexible connection between the driving shaft and the shoe.

2,171,061

DUPLICATING MACHINE

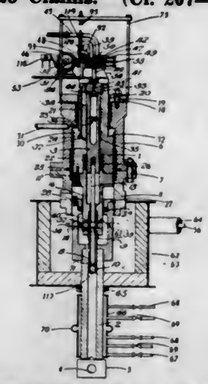
Frank Ronald Ford, Sparkbrook, Birmingham, England

Application November 17, 1938, Serial No. 241,071
In Great Britain October 26, 1937
15 Claims. (Cl. 101—132.5)



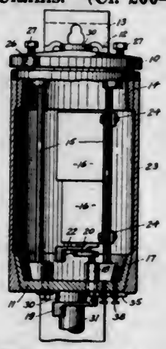
1. In a duplicating machine, the combination of a rotatable cylinder, means for bringing a succession of copy sheets into pressure contact with a master sheet on said cylinder, and apparatus for moistening said copy sheets before contact with said master sheet, said apparatus comprising a moistening pad against which said copy sheets are pressed, a container for moistening fluid, said moistening pad being supported upon said container and having a part thereof exposed to the interior of the latter, and means within said container for feeding fluid therefrom to the exposed part of said moistening pad at a rate proportionate to the speed of rotation of said cylinder.

2,171,062
PRESS FOR THE EXTRUSION OF LEAD AND OTHER METALS
George Thomas Wilson Grieve, London, England, assignor to Callender's Cable and Construction Company Limited, London, England, a British company
Application September 28, 1937, Serial No. 166,060
In Great Britain October 30, 1936
25 Claims. (Cl. 207—2)



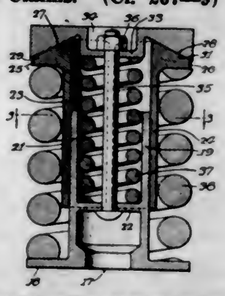
1. An extrusion press for metals comprising a container having an outlet from which metal is extruded, a main ram for exerting a steady pressure upon metal in the container, a feeding vessel outside the main ram, and an auxiliary ram disposed within the main ram for drawing molten metal from the feeding vessel and delivering it into the container through the main ram and at a place remote from the outlet of the container, the container and main and auxiliary rams being co-axially disposed.

2,171,063
FLAMETIGHT SWITCH HOUSING
John W. Herrick, Syracuse, N. Y., assignor to Crouse-Hinds Company, Syracuse, N. Y., a corporation of New York
Application July 13, 1936, Serial No. 90,320
3 Claims. (Cl. 200—168)



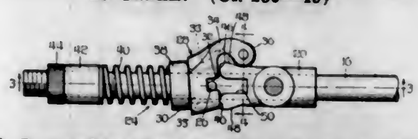
1. An explosion resisting switch housing comprising an end section provided with a depending annular flange, a second end section, means connecting the second end section to said first section in axial alinement therewith, said connecting means also comprising a switch support, said second end section being provided with a tapered peripheral surface, a tubular casing sleevable over said second end section and being provided at one end with a bore to receive the flange of said first section, and at the other end with a tapered bore complemental to the periphery of said second end section, and means operable to effect axial movement of the casing relative to the end sections to bring the end portions of the casing into engagement with said end sections.

2,171,064
BOLSTER SPRING UNIT
Cyrus J. Holland, Chicago, Ill., assignor to Holland Company, a corporation of Illinois
Application November 11, 1936, Serial No. 110,222
9 Claims. (Cl. 267—9)



1. A bolster supporting spring unit, comprising a base, a post extending upwardly from said base and integral therewith, a plurality of friction shoes frictionally engaging the outer surface of said post, the extreme upper ends of said shoes having wedging faces, a cap member having wedging faces engaging the wedging faces of said shoes, a spring inwardly of said shoes and terminating inwardly of the outer ends of said shoes, and a spring outwardly of and surrounding said shoes and seated on said base for resisting the compression of said unit.

2,171,065
BUILDER'S HARDWARE
Elvin H. Johnson, Winnetka, Ill.
Application December 18, 1936, Serial No. 116,453
10 Claims. (Cl. 189—49)



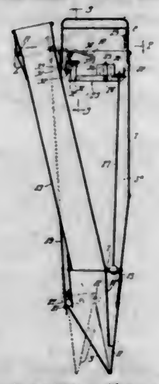
1. In combination in a door check: a rod; a foot pivoted at one end of said rod and adapted to swing about said end of said rod on a first axis which is transverse to the axis of said rod, said foot being adapted to be mounted on a door, and having a face parallel to said first axis adapted to engage the surface of said door; a sleeve fitting said rod so that said rod slides therethrough; a plate pivoted on said sleeve about a second axis transverse to the axis of said sleeve, said plate being adapted to be mounted on a casing, and having a surface perpendicular to said second axis adapted to engage the surface of said casing; said sleeve being oriented on said rod so that said first and second axes are substantially parallel; said sleeve having a forward end thereof facing away from said one end of said rod; a cam on said forward end of said sleeve, said cam having a forward lifting face and rearward holding face; a pair of pintles extending transversely from said rod; an abutment ring encircling said rod and adapted to rock on said pintles opposite said sleeve; said ring having a forward face adapted to abut the forward end of said sleeve; an arm extending laterally and forward from said ring and having a holding portion adapted to overhang said cam and engage said holding face of said cam when said forward face of said ring abuts said forward end of said sleeve; a collar rearward of said ring fitting said rod closely whereby said collar is restrained from rocking with said abutment ring; a spring behind said collar and a nut behind said spring threaded onto said rod; the rearward surface of said abutment ring being such that said spring normally holds said holding portion in the path of said cam, whereby as said sleeve and abutment ring approach each other and said holding portion rides over said cam, said abutment ring rocks to compress said spring.

2,171,066
CUSHION CLOSING DEVICE
Arthur J. Kay, Glendale, Calif.
Application January 28, 1939, Serial No. 253,300
5 Claims. (Cl. 254—67)



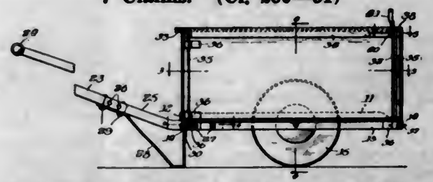
1. In a cushion closing apparatus a stretching mechanism including spaced supports, a rod rotatably mounted on said supports, said rod including a threaded portion, a grip member having an aperture receiving the threaded portion of the rod, said grip member having a pointed end, a tip on said rod, said tip having a threaded aperture therein, the threads of said tip aperture being reversed with respect to the rod threads, said tip having a pointed end.

2,171,067
PLANT SETTER
Edwin L. Masters, Chicago, Ill.
Application February 26, 1937, Serial No. 127,933
5 Claims. (Cl. 111—4)



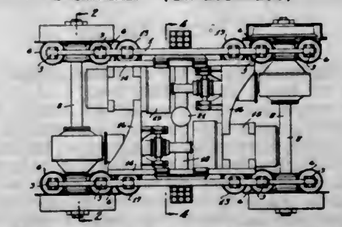
1. In a plant setter, the combination of a reservoir having a valve therein, a movable shovel mounted adjacent the lower end of said reservoir, a plant tube operatively related to said shovel and reservoir, a valve actuating lever pivotally mounted in said reservoir and operatively related to said valve, a movable arm mounted on said plant tube operatively connected to said shovel and engageable with a portion of said valve lever for actuating the shovel and moving said lever to open said valve, the continued operative movement of said arm beyond a predetermined position acting to disengage the arm from said lever, and means for closing said valve upon disengagement of said arm and lever.

2,171,068
CART
Edwin L. Masters, Chicago, Ill.
Application June 6, 1938, Serial No. 212,943
7 Claims. (Cl. 280—51)



2. A cart comprising a container consisting of side and end walls superimposed upon a horizontally extending bottom plate having its sides and front end upturned to provide corresponding flanges, angles extending around the marginal edges and welded to the bottom of said plate to provide downwardly projecting flanges, a pair of supporting wheels, an axle extending through the vertical legs of said side angles and providing a mounting for the wheels, a forked tongue member having a rigid connection with said side angles, a supporting member connecting the tongue member with the front angle and having its intermediate portion extending downwardly to provide a ground rest, the front end and side walls of the container overlapping and operatively engaging the contiguous flanged edges of the plate, and means cooperating with said flanged edges to prevent horizontal movement and to permit vertical movement of the end and side walls of the container to effect their removal from the cart.

2,171,069
TRUCK AND SWING BOLSTER CONSTRUCTION
Emil H. Piron, New York, N. Y., assignor, by mesne assignments, to Transit Research Corporation, New York, N. Y., a corporation of New York
Application May 31, 1935, Serial No. 24,191
4 Claims. (Cl. 105—190)



1. In a rail truck, the combination of a truck frame, axles, journal bearings for said axles, and elastic cushioning means between said journal bearings and said frame yieldingly resisting all relative lateral, fore and aft and vertical movements thereof, a swing bolster, swing links for supporting said bolster from said frame, said swing links being constructed and arranged to

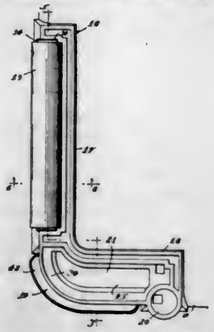
transmit all accelerating and decelerating forces between said frame and a car body thereabove, and viscous shock absorbing means between said bolster and said frame adapted to resist all swinging movements of said bolster.

2,171,070
DRAFT ELIMINATOR
Charles Greif Raible, Shaker Heights, Ohio, assignor, by mesne assignments, to The Sentry Stop-A-Draft Co., Cleveland, Ohio, a corporation of Ohio
Application March 18, 1938, Serial No. 196,754
Renewed July 10, 1939
7 Claims. (Cl. 20—68)



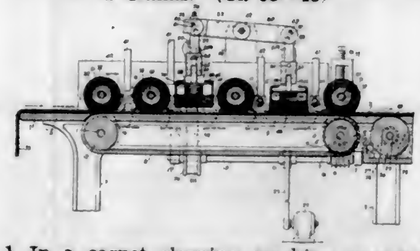
1. In a door sealing device of the type adapted to be mounted on a door and having an elongated sealing member to be projected and retracted during closing and opening movements of the door, means for actuating the sealing member so as to cause one end thereof to be actuated in advance of the other end comprising a pair of spaced actuators cooperating with the sealing member, the member cooperating portion of one actuator being of a different shape than the corresponding portion of the other actuator.

2,171,071
CASKET TABLE FOR HEARSES
Earl L. Schofield, Freeport, Ill., assignor to Henney Motor Company, Freeport, Ill., a corporation of Delaware
Application October 23, 1936, Serial No. 107,259
3 Claims. (Cl. 296—16)



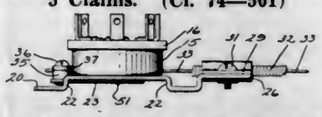
1. In a casket table for a hearse adapted to be moved by hand to and fro over and in closely spaced relation to the floor of the hearse, a horizontally disposed handle plate adapted to be secured to the horizontal edge portion of the table, said plate being formed to provide a body portion and an integral web portion disposed in spaced relation to the body portion but connected thereto at its ends, said web portion providing a hand grip adapted to be grasped from above when in substantially horizontal position on a casket table on a hearse, the body portion being formed to provide a substantially vertical wall inwardly spaced relative to the web portion sufficient to admit the fingers of a human hand grasping the hand grip in the manner stated, the lower portion of said wall being formed to provide an outwardly sloping surface, all portions of which are substantially in the same spaced relation to the hand grip as the vertical portion of said wall so as to cause the operator's fingers in grasping the hand grip to bend to enclose the same, the lower portion of said wall being extended outwardly far enough in the direction of the hand grip to prevent extension of fingers straight downwardly behind the hand grip and projection thereof below the table, substantially as described.

2,171,072
CARPET-CLEANING MACHINE
John K. Tingle, Connersville, Ind.
Original application April 29, 1935, Serial No. 18,720. Divided and this application March 4, 1936, Serial No. 67,107
2 Claims. (Cl. 68—45)



1. In a carpet cleaning machine, means for moving a carpet therethrough, a plurality of cleaning members comprising trudgers supported above the path of said carpet, means for vertically reciprocating said trudgers to cause them to alternately contact and compress a portion of said carpet being moved therealong, and resilient contacting means disposed on the ends of each of said trudgers, said resilient means being arranged to engage the surface of the carpet obliquely relative to the longitudinal axis of the path the carpet travels.

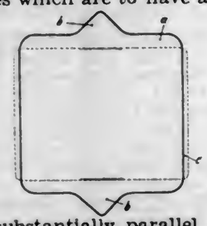
2,171,073
MOTOR VEHICLE SWITCH
Robert K. Winning, Wauwatosa, Wis., assignor to Clum Manufacturing Company, Milwaukee, Wis., a corporation of Wisconsin
Application February 5, 1934, Serial No. 709,729
5 Claims. (Cl. 74—501)



1. The combination with a rock shaft, of a bracket through which said rock shaft projects, said bracket having an offset portion on which a switch is adapted to be mounted, a lever secured to said rock shaft comprising means for the actuation thereof oscillatable in the offset portion of the bracket, and a Bowden wire sheath clamp mounted on said bracket and adapted to hold a sheath in such a position that its wire may be operatively connected with said lever.

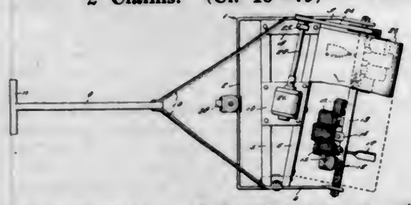
2,171,074
PROCESS FOR IMPROVING THE TEXTURE OF ROLLED PRODUCTS
Franz Bartscherer, Duisburg-Hamborn, Germany
Application February 23, 1937, Serial No. 127,280
In Germany February 27, 1936
4 Claims. (Cl. 80—66)

1. A method of producing and treating rolled articles, more particularly rails and shaped iron sections for improving the texture and structure thereof, consisting in forming local protrusions of additional material on at least two opposite sides of an ingot, said protrusions being formed on those sides which are to have a crystallite ar-



rangement substantially parallel to the surface of the finished article, said protrusions being spaced from one end of the ingot to facilitate the feeding of the ingot to the rollers, and rolling the ingot to reduce the local protrusions and to produce the parallel crystallite arrangement.

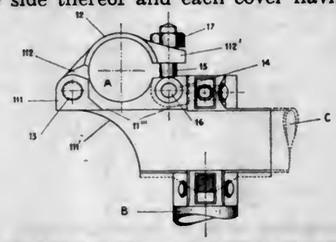
2,171,075
SNOW SWEEPER
Jess Adrian Blazier, Cleveland, Ohio
Application November 25, 1938, Serial No. 242,348
2 Claims. (Cl. 15—79)



1. A snow sweeper of the character described comprising a supporting structure including a horizontal U member, said U member comprising comparatively long and short forwardly projecting legs, a diagonal broom rotatably mounted between the free end portions of said legs, braces extending between the legs, a motor mounted on said braces, means operatively connecting the broom to said motor for actuation thereby, an arcuate shield for the broom mounted on one of the braces, supporting wheels mounted beneath the U member, and means connected to the frame structure for moving same over the ground on the supporting wheels.

2,171,076
MULTIPLE CLAMP
Ermanno Borsetti, deceased, late of Genova-Sampierdarena, Italy, by Ernegia Borsetti, sole heiress and administratrix, Ferrara, Italy, assignor to Soc. An. Rolla Traverso & Storace, Genova-Sampierdarena, Italy, a corporation of Italy
Original application January 23, 1937, Serial No. 121,959½. Divided and this application October 26, 1937, Serial No. 171,168. In Italy January 24, 1936
3 Claims. (Cl. 189—36)

1. A multiple clamp for frame members comprising, three half sleeve sections each having a convex portion and a concave portion adapted to receive and partly embrace a tubular frame member to provide supporting cradles therefor, the convex portion of one half sleeve section being rigidly connected to the convex portion of the second half sleeve section and the convex portion of the third half sleeve section being rigidly connected to the second half sleeve section with the axes of the cradles extending in three directions, a cover pivoted to each cradle at one side thereof and each cover having out-



standing ears at the free side thereof, and a bolt hinged adjacent the other side of each cradle adapted to co-act with the ears for clamping the frame members between the cradles and the covers.

2,171,077
TIE CASE
Albert Lee Branch, Richmond, Va.
Application August 31, 1937, Serial No. 161,867
3 Claims. (Cl. 206—7)

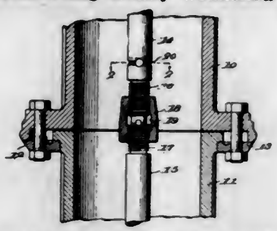


3. In a tie case, the combination of a pair of co-acting cover members hingedly related; a journal bearing mounted on the outer face of one of said members; a tie-rack journaled in said bearing; and fastener means carried by said rack and adapted to be attached to each of said members to fasten the case in closed position.

2,171,078
BREAKABLE STEM FOR FIRE HYDRANTS
Earl E. Cline, Decatur, Ill., assignor to Mueller Co., Decatur, Ill., a corporation of Illinois
Application December 28, 1936, Serial No. 118,005
1 Claim. (Cl. 287—1)

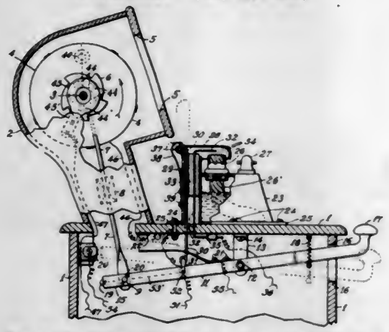
A valve operating stem for a fire hydrant, said hydrant comprising an upright stock having upper and lower parts joined in end to end relation by a rupturable joint, said stem being operatively disposable in longitudinally extending relation in the stock and comprising upper and lower portions whose adjacent ends will be in the vicinity of the joint when the stem is operatively disposed in the stock, and means operatively coupling said adjacent ends, said coupling means including means locking the stem por-

tions against rotation relative to each other and including also means preventing relative axial displacement of the stem portions, said upper stem portion being locally weakened above said



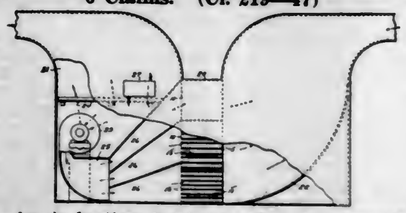
coupling means so as to be more readily breakable under binding stresses than said lower stem portion and said coupling means whereby breakage of the stem in use will be confined to said upper portion.

2,171,079
COMBINED AUTOMATIC LIGHTING AND ADVERTISING DEVICE
Guillermo Pardo Diaz, Habana, Cuba
Application December 22, 1937, Serial No. 181,212
In Cuba July 29, 1937
4 Claims. (Cl. 40—28)



1. An automatic lighting and advertising device comprising in combination a casing, a support on the casing, an axle journaled in the support, an advertising drum on the axle, an electric igniter on the casing and which projects upwards less than the advertising drum, a manually depressible lever extending through the casing and pivotally mounted therein, ratchet means connected to the lever to turn said drum step-by-step, means connected to the lever independently of said ratchet means to control the igniter, and means to restore said lever to non-operative position.

2,171,080
INDUCTION HEAT TRANSFORMER
George B. Ely, Olivet, Mich.
Application May 4, 1938, Serial No. 206,094
6 Claims. (Cl. 219—47)



1. An induction heat transformer comprising a core of magnetic sheet metal folded and rebent upon itself to provide a multiplicity of passageways therethrough, and an impedance coil comprising a primary winding about said core.

2,171,081
METALLIC ABRASIVE
John F. Ervin, Ann Arbor, Mich.
No Drawing. Original application May 10, 1937, Serial No. 141,804. Divided and this application December 19, 1938, Serial No. 246,758
1 Claim. (Cl. 51—280)

An abrasive material characterized by a high crushing strength and impact resistance comprising a high carbon ferrous base alloy containing substantially 3% carbon; substantially 0.5% of manganese; substantially 1.5% of silicon; substantially 0.1% of sulphur; substantially 0.4% of phosphorus; from substantially 0.25% to 3.0% of chromium; from substantially 0.1 to 0.6% of molybdenum, the balance of the composition being iron.

2,171,082
METALLIC ABRASIVE
John F. Ervin, Ann Arbor, Mich.
No Drawing. Original application May 10, 1937, Serial No. 141,804. Divided and this application December 19, 1938, Serial No. 246,759
1 Claim. (Cl. 51—280)

An abrasive material characterized by a high impact resistance and crushing strength comprising a high carbon ferrous base alloy containing substantially 3% of carbon, substantially 0.5% of manganese, substantially 1.5% of silicon, substantially 0.1% of sulphur, substantially 0.4% of phosphorous, from 0.1 to 1.5 per cent of chromium; from 0.1 to 3 per cent nickel; and from 0.1 to 0.6 per cent of molybdenum, the balance being iron.

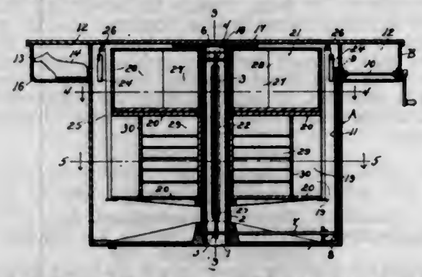
2,171,083
METALLIC ABRASIVE
John F. Ervin, Ann Arbor, Mich.
No Drawing. Original application May 10, 1937, Serial No. 141,804. Divided and this application December 19, 1938, Serial No. 246,760
1 Claim. (Cl. 51—280)

An abrasive material characterized by a high impact resistance and crushing strength comprising a high carbon ferrous base alloy containing substantially 3% of carbon, substantially 0.5% of manganese, substantially 1.5% of silicon, substantially 0.1% of sulphur, substantially 0.4% of phosphorus, from 0.1 to 1.5 per cent of chromium; from 0.1 to 3 per cent of nickel; effective amounts and up to 0.06 per cent of vanadium, the balance being essentially iron.

2,171,084
DINING TABLE
Angelo Fasce, Genoa, Italy
Application July 26, 1937, Serial No. 155,767
In Italy August 10, 1936
2 Claims. (Cl. 312—151)

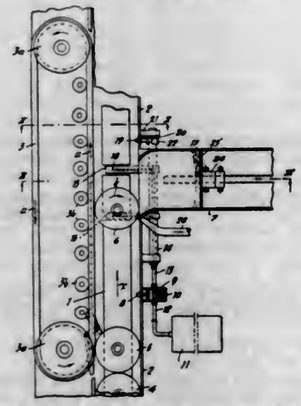
1. A dining table comprising a hollow pedestal, a table top fixed thereto and having a peripheral set of compartments and a central opening, a central service section fitting within the pedestal and having a turn-table at the top filling said central opening, said central service section including a non-rotatable bottom unit and a rotatable top unit beneath the turn-table, said units being divided by radial partitions into a number of

sectors corresponding to the number of diners the table is designed to serve, the top unit's sectors serving as food compartments and the bottom



unit's sectors serving as table-service compartments, and means to raise and lower said central section to bring said units above the level of the fixed table top.

2,171,085
LABELING MACHINE FOR BOTTLES AND THE LIKE
Hjalmar Friberg, Stora Essingen, near Stockholm, Sweden
Application December 7, 1937, Serial No. 178,595
In Sweden January 31, 1936
7 Claims. (Cl. 216—58)



1. A machine of the character set forth comprising, in combination, a label container, means including swinging arms having perforations and channels through which to apply an adhesive agent under pressure to the outermost label in said container, and means to move an object to be labeled past said container in contact with said outermost label subsequent to the applying of the adhesive agent thereto.

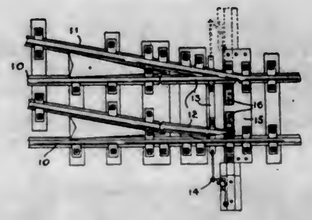
6. A machine of the character set forth comprising, in combination, means providing a path for the objects to be labeled, a label container on one side of said path, a belt conveyer on the opposite side of the path to feed the objects through the path past the delivery end of the label container in contact with the outermost label therein, the side walls of said label container at the delivery end thereof being bent towards the infeed end of the path of the objects, means including swinging arms to apply an adhesive agent to each label before its transfer to an object, means to operate said arms under the control of the objects passing through the path, and a suction pipe opening at that edge of the delivery end of the label container where the objects to be labeled come into contact with the outermost label in the container.

7. A machine of the character set forth comprising, in combination, means providing a feeding path for the objects to be labeled, a label container on the one side of said path, means to move the objects through the path past said label container, means to apply an adhesive agent to the outermost label in said container before its transfer to an object to be labeled, a bell crank spacing lever having a longer control arm to be engaged by an object passing through the feeding path and a shorter stop arm to check the succeeding object as long as the control arm is engaged by the preceding object, and an additional stop lever connected to said bell crank lever for checking a succeeding object during the transfer of the preceding object from the stop arm to the control arm of the spacing lever.

2,171,086
PREPARATION OF GOLD FILMS
Charles Stanley Gibson, Kingswood, England
No Drawing. Application April 14, 1938, Serial No. 202,137. In Great Britain June 21, 1937
12 Claims. (Cl. 91—68.3)

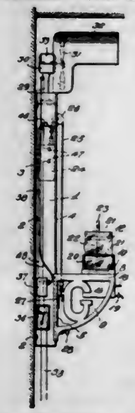
1. The process of depositing a coherent film of gold upon a surface according to which the surface is contacted with a solution comprising a monohydric alcohol capable of undergoing direct oxidation, at least one compound of the group consisting of alkali metal hydroxides and alcoholates, and at least one organic gold compound of the group consisting of compounds which have the empirical formula R_2AuX and compounds having the empirical formula $R''AuX$, where R represents a univalent hydrocarbon radical which may be substituted, R'' represents a bivalent hydrocarbon radical which may be substituted and X represents a halogen atom, and compounds which are derived from organic gold compounds of the said empirical formulae by the action thereon of a silver salt.

2,171,087
SWITCH RETAINER CONSTRUCTION
Mont Goff, Huntington, W. Va.
Application May 27, 1937, Serial No. 145,129
1 Claim. (Cl. 246—448)



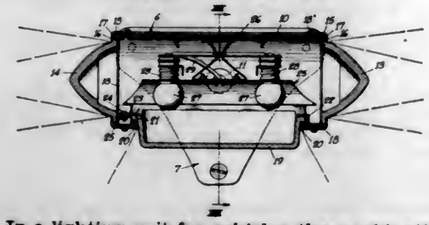
In a railway switch embodying movable switch points, means for retaining said points against the main rail comprising elongated blocks of spring material fixedly secured at one of their ends to the top of a tie and provided with yieldable concavo-convex arched portions in their free ends adjacent the main rail, said arched portions being adapted to laterally engage the switch points for holding the same in closed or open position, the arched portions exerting a constant lateral pressure on the switch points by reason of the resiliency of the free ends of said blocks.

2,171,088
AIR CONDITIONING APPARATUS
Gwyn Griffiths, Durham, N. C.
Application February 18, 1938, Serial No. 191,300
2 Claims. (Cl. 257—8)



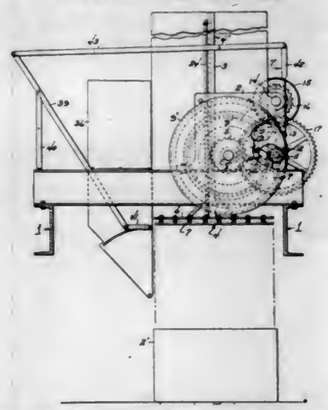
1. In an air conditioning apparatus, in combination, a wall fixture consisting of an enclosed channel portion and an extended rail portion vertically mounted adjacent the wall of a room and extending from a position adjacent the floor to a position adjacent the ceiling, an air circulator mounted on said fixture at the upper end thereof, a carrier for an air conditioning device slidable on said rail portion of said fixture, counterbalancing means for said carrier within said channel portion of said fixture and operatively connected with said carrier; said carrier being movable to a lowered position adjacent the floor of the room, in which position the air conditioning device may be serviced or replaced, and to an elevated position adjacent the ceiling of the room in which position the air conditioning device is in cooperable relation to said air circulator; and control means for the air circulator mounted on said channel portion of said fixture adjacent the upper end thereof and having a control member engaged by said carrier for operation thereby in movement into and out of said elevated position.

2,171,089
VEHICLE LIGHTING UNIT
Elza Hawkins, Los Angeles, Calif., assignor to Good Humor Ice Cream Company of Los Angeles, Los Angeles, Calif., a corporation of California
Application August 9, 1938, Serial No. 223,833
1 Claim. (Cl. 240—8.2)



In a lighting unit for vehicles, the combination of: a tubular housing; a pair of lenses each of which is identified with one end of said housing; means for attaching each of said lenses to said housing, said attaching means comprising a retaining ring encircling said lenses and attached to the end of said housing; a flood lighting lens having a flange projecting into the interior of said tubular housing; means for attaching said flood lighting means to said housing; a semi-cylindrical reflector within said housing with the open side of said reflector encompassing said flange on said flood lighting lens; and spring means attached to said reflector for removably restraining said reflector within said tubular housing.

2,171,090
COTTON TAMPER
Lonnie E. Haynes, Birmingham, Ala.
Application July 16, 1937, Serial No. 154,062
1 Claim. (Cl. 100—25)

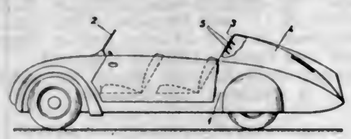


A tamping apparatus comprising a supporting structure, a tamping element mounted for reciprocation on said supporting structure and including a rack bar, a gear meshing with said rack bar, a shaft journaled on the supporting structure and having the gear secured thereto, an annular rack bar secured on said shaft and provided with a slot providing double runs, teeth forming elements providing part of said annular rack bar and arranged in annular formation adjacent the slot and having the runs thereof positioned at opposite sides of the teeth, a frame pivoted on the supporting structure, a second shaft journaled on said frame and extending into the slot of the annular rack, a gear secured to the second named shaft and meshing with the teeth of the annular rack, a power shaft journaled on the supporting structure, gears connecting the power shaft with the second named shaft, a cotton hopper carried by the supporting structure, a gate for controlling said hopper, an operating means actuated by the pivoted frame and connected with said gate for opening and closing the same in accordance with the movement of the tamper element.

2,171,091
STREAMLINE BODY FOR MOTOR VEHICLES WITH AIR-COOLED REAR ENGINES
Miloš Klavik, Koprivnice, Czechoslovakia
Application August 6, 1938, Serial No. 223,546
In Czechoslovakia August 12, 1937
1 Claim. (Cl. 180—54)

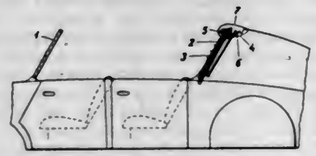
An open streamline body for motor vehicles with air-cooled rear engine comprising a closed engine chamber, seats, a partition closing off said engine chamber from said seats, and a windscreen situated in front of the driver, the

said partition being raised substantially to the height of the windscreen and provided with slot openings therein, through which slots the air



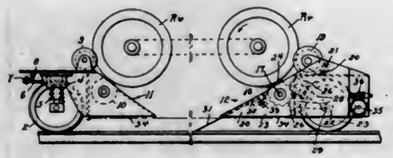
set in eddy motion by the windscreen passes into the closed engine chamber for cooling the engine.

2,171,092
STREAMLINE BODY FOR MOTOR VEHICLES WITH AIR-COOLED REAR ENGINES
Miloš Klavik, Koprivnice, Czechoslovakia
Application August 6, 1938, Serial No. 223,547
In Czechoslovakia August 16, 1937
1 Claim. (Cl. 180—54)



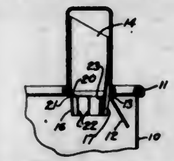
An open streamline body for motor vehicles with air-cooled rear engine, comprising a windscreen, a closed engine chamber, seats, a partition closing said engine chamber from said seats and provided with slot openings for admitting air for cooling, a two-part hood, one part of said hood extending from the windscreen to behind the seats, and the other part forming a continuation of the hood whereby a passage is formed between the two hood parts for ingress of air to the slot openings.

2,171,093
ADAPTABLE RAIL TROLLEY
Rudolf Klima, Salzburg, and Paul Pellischek, Vienna, Austria
Application May 22, 1937, Serial No. 144,272
In Austria May 22, 1936
10 Claims. (Cl. 105—159)



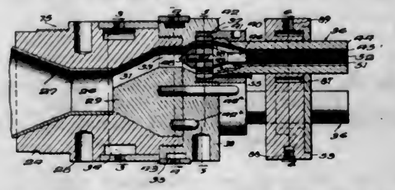
1. In mechanism for the purpose described, a front and a rear truck each including a frame carrying railway wheels to run on a track and each including a ramp to be inserted beneath the wheels of a road vehicle, means coupling the front and rear trucks together and including means to draw them toward each other to cause the road-vehicle wheels to run up the ramp whereby the road vehicle will be supported by the trucks, each truck also including friction rollers on which the road-vehicle wheels rest, abutment rollers against which the road-vehicle wheels press to cause elevation of the ramp from contact with the ground as said trucks are drawn toward each other, and power-transmitting connections between the friction rollers of one of said trucks and the railway wheels of the same.

2,171,094
CAN AND INSERTABLE POURING SPOUT
Joseph Livoti, Roseville, Calif.
Application April 29, 1939, Serial No. 270,809
4 Claims. (Cl. 221—23)



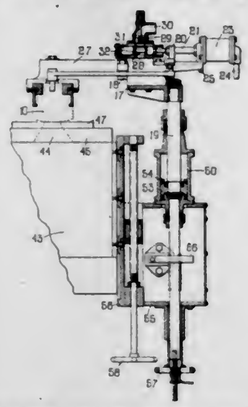
1. A spout for an outlet of metallic cans which have a circularly scored area which may be opened by rupture of the metal along the score line, said spout comprising a tubular body including a pouring end portion and a connecting end portion, said tubular body having an inwardly formed externally open groove longitudinally thereof and terminating at the connecting end portion of the tubular body, said groove being formed by a longitudinal inward deformation of the body of the tube whereby the circumference of the tube at the connecting end is less than the circumference thereof adjacent the pouring end, said body having an externally concave groove circumferentially thereof adjacent the connecting end and said connecting end having longitudinal slots extending from adjacent said groove to the terminations of said connecting end, whereby a laterally resilient skirt is provided at the connecting end for insertion within the can opening provided by rupture of the metal along the score lines.

2,171,095
EXTRUSION APPARATUS FOR OBTAINING LUSTER, COLOR, PATTERN, AND COMPLICATED SHAPE EFFECTS ON ARTICLES FORMED OF PLASTIC MATERIAL
Camillo Orsini, Highland Park, N. J., assignor to Nixon Nitration Works, Nixon, N. J., a corporation of New Jersey
Application November 3, 1936, Serial No. 109,042
5 Claims. (Cl. 18—14)



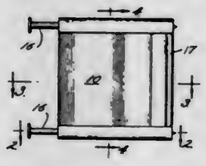
1. In an extrusion press, the combination with the extrusion cylinder and ram thereof, of a dividing mechanism provided with a plurality of series of circular slots through which the plastic material is forced, an extrusion nozzle of a free cross-sectional area smaller than that of the dividing mechanism, a conduit between the dividing mechanism and the nozzle having a gradually diminishing free flow cross-sectional area from the dividing mechanism to the inlet of the nozzle, said nozzle comprising a bushing and a mandrel within said bushing and separated from said dividing mechanism, said mandrel being capable of being rocked within the bushing and means for rocking said mandrel relatively to the bushing.

2,171,096
APPARATUS FOR FEEDING MOLTEN GLASS
Thomas Finney Pearson, Pontefract, England, assignor to Crown Cork & Seal Company, Inc., New York, N. Y., a corporation of New York
Application September 7, 1937, Serial No. 162,743
In Great Britain September 9, 1936
9 Claims. (Cl. 49—5)



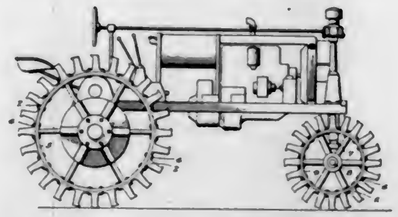
6. Apparatus for feeding molten glass from a furnace, comprising a suction operated gathering head including relatively displaceable mould sections, a hollow radial arm carrying said head, a splined vertical shaft carrying said radial arm, suction applying means, pneumatically operated means adapted both to cut off said arm from said suction applying means and simultaneously to open said sections, a pneumatically operated piston adapted to displace said shaft axially to lower and lift said head, a thrust race between said piston and said shaft, a second pneumatically operated piston, a rack, a pinion carried by the splined part of said shaft and adapted to rotate said shaft on operation of said second piston, without rotation of said first piston, to swing said arm and head about the axis of said shaft, a master control for the actuation of said pneumatically operated means in predetermined sequence, and a trip valve engaged by said rack for separately controlling said mould opening and closing means.

2,171,097
NAILING PLUG
Clyde W. Prickett, Los Angeles, and Burton L. Wilcox, Huntington Park, Calif.
Application October 25, 1937, Serial No. 170,878
5 Claims. (Cl. 72—105)



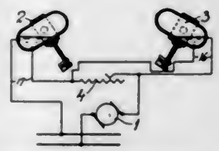
5. A nailing plug having a pair of spaced sides correspondingly corrugated on long curves and having stiffness for distorting nails driven between the sides, said plug having at its ends tube-like parts for receiving nails for temporarily securing the plug to a form and for holding the sides in properly spaced position.

2,171,098
EARTH WORKING APPARATUS
Chester Arthur Ragland, Sr., Chester Arthur Ragland, Jr., and George Gilliam Ragland, Louisburg, N. C.; said Chester Arthur Ragland, Sr., assignor to said Chester Arthur Ragland, Jr., and said George Gilliam Ragland
Application July 22, 1938, Serial No. 220,754
6 Claims. (Cl. 94—50)



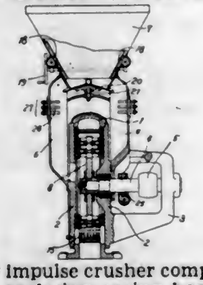
1. A self-impelling road rolling and tamping machine comprising a tractor which has a plurality of wheels mounted on a rear axle and a front axle, each wheel having a wide periphery, a chassis supported on said axles, a source of automotive power mounted on said chassis and adapted to impart a driving force to the wheels mounted on at least one of said axles, all of the said wheels of said tractor being provided with sheep-foot tamping units on the periphery thereof.

2,171,099
ELECTRICAL CONTROL APPARATUS FOR HEATING PLANTS
Petter Hartmann-Riis, Ostre Aker, near Oslo, Norway
Application February 15, 1937, Serial No. 125,870
In Norway February 14, 1936
3 Claims. (Cl. 236—1)
(Granted under the provisions of sec. 14, act of March 2, 1927; O. G. 5)



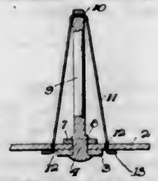
1. Apparatus for automatically controlling the heat output of an oil fired heating plant having the oil supplied thereto by a pump and a fan driven by a single motor comprising an electrical supply circuit having one side thereof connected to one terminal of the motor, a circuit extending from the other motor terminal adapted to be connected to the other side of the supply line, voltage limiting means associated with said second mentioned circuit, a thermo-responsive switch adapted to connect said second mentioned circuit to said supply circuit when a predetermined low temperature is reached and open said circuit when a predetermined maximum temperature is obtained from the heating plant, a second thermo-responsive switch associated with the motor circuit having an operable range intermediate of the operable range of the first mentioned switch, and said second mentioned switch being operable to connect said voltage limiting means in the motor circuit when a predetermined intermediate temperature is obtained from the heating plant.

2,171,100
IMPULSE TYPE ROTARY CRUSHER
Hyosuke Sakurai, Chita District, Japan
Application February 4, 1937, Serial No. 123,956
5 Claims. (Cl. 83—11)



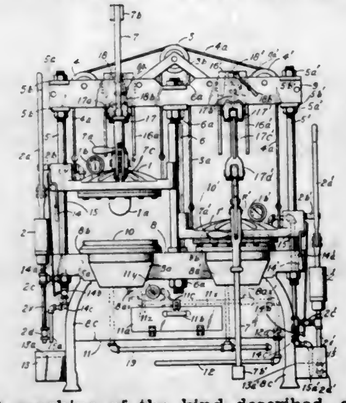
1. A rotary impulse crusher comprising, in combination, an enclosing casing having an air intake port arranged substantially in the central plane of the casing and at the upper portion thereof and two inlet passages for raw materials arranged symmetrically on opposite sides of said air intake port and communicating therewith, a shaft rotatably mounted within said casing below said material inlet passages, a disk carried by said shaft, a plurality of pins extending axially from each face of said disk, the pins on each face being arranged in a plurality of concentric circles and the pins of adjacent circles being so disposed with respect to each other as to provide a series of spiral rows of pins converging toward the shaft, each of said pins being provided with a cutting edge on the free end thereof and with a second cutting edge on the longitudinal side thereof in the direction of rotation of the disk, a plurality of radially extending alternating grooves and projections on the walls of the casing on both sides of said disk and being in close proximity to the free ends of the pins carried thereby, a plurality of stationary bars attached to said casing and extending axially of said rotor disk, and being arranged in concentric, circular series, the bars of each circular series extending between adjacent circular series of pins carried by said disk and having cutting edges formed thereon which cooperate with the cutting edges on the longitudinal sides of said pins, screening means surrounding the grinding assembly, and a single discharge means for crushed and screened material arranged substantially in the central plane of the casing.

2,171,101
PIN BOARD
Ervin A. Schuster, Freeland, Pa., assignor to Freeland Spool and Bobbin Corp., Hazleton, Pa., a corporation of Pennsylvania
Application September 27, 1937, Serial No. 166,030
3 Claims. (Cl. 242—130)



3. A pin board comprising a frame provided with overlapping cross strips connected together by pins, said pins being provided with apertures adjacent their upper ends and inverted substantially V-shaped springs arranged in the apertures of said pins having their free ends loosely mounted in said cross strips.

2,171,102
DUPLEX MACHINE FOR BLOCKING AND PRESSING HATS
Oscar Seidel, Louisville, Ky.
Application March 12, 1938, Serial No. 195,641
7 Claims. (Cl. 223—12)



1. A machine of the kind described, adapted for blocking and pressing hats, comprising: an oblong, stationary base designed to hold hat dies operatively set in either end thereof; mounted on said oblong base by means of strong vertically-disposed posts, a horizontal double cross-beam set parallel to said base; an angle-bracket bolted to said cross-beam; a double sheave-wheel mounted on said bracket and a single sheave-wheel installed at either end of said cross-beam, to support a hat pressure-head and its operative mechanism under either end thereof; outside and inside cables whose right ends are attached respectively to the outer and the inner edges or said right pressure-head and whose left ends, running up over said sheave-wheels, are attached respectively to the outer and the inner edges of said left pressure-head, adapted for the support and operation of said pressure-heads in counterbalance; operative levers and a coacting triangular toggle hinged on said pressure-heads; two saddle-blocks bolted to said cross-beam at predetermined places over said pressure-heads; vertically-disposed guide-channels mounted on said saddle-blocks; a suspension-arm attached in a pintle-hinge to said triangular toggle; a guide-knuckle on the outer end of said suspension-arm; a guide-yoke bolted to said guide-knuckle and adapted, with its ends bent downward, to slide up and down in said guide-channels; inner and outer guide-brackets on the inner and outer edges of said pressure-heads adapted to slide on said vertically-disposed supporting posts to maintain alinement of motion in the pressure-heads as they move up and down in normal operation; and a hydraulic press rigidly attached to the outer guide-bracket of either pressure-head, and adapted to move up and down with the normal movement of the pressure-heads and designed, with its coacting valves, to make and release quickly the required pressure for blocking and pressing hats, substantially as described.

2,171,103
TIE-HOLDER CONSTRUCTION
Charles Silverman, Providence, R. I.
Application October 2, 1937, Serial No. 167,000
3 Claims. (Cl. 24—49)

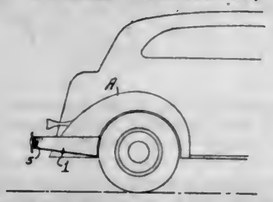
3. In a tie holder, a front portion comprising a wire bent to form spaced arms meeting at one

end and continuing together to form a U-bend, a rear portion comprising another wire having its free ends secured to said U-bend, the arms of said rear portion wire being angularly spread beyond the spacing of said front portion wire



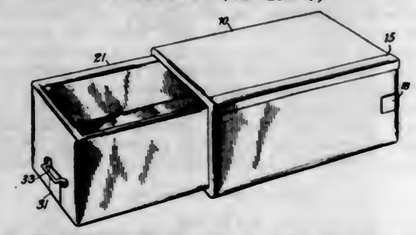
and having its looped end re-entrantly and forwardly bent to resiliently contact said front portion, said front portion having an ornament straddling its spaced arms and positioned to provide a stop for said looped end.

2,171,104
VEHICLE BUMPER
Wilfrid C. Walter, Arcata, Calif.
Application September 28, 1936, Serial No. 102,992
2 Claims. (Cl. 293—57)



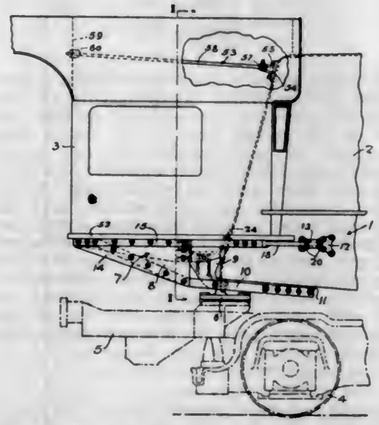
1. A side bumper for a motor vehicle comprising a bar shaped for disposal about the side of the rear end of the vehicle, said bar being tapered inwardly from its front to its rear end and including a curved intermediate portion, a straight rear end portion and a straight front end portion, means for securing the bar to the rear bumper bar of the vehicle and extending through the straight rear end portion and intermediate portion respectively, said straight front end portion being engageable with the rear side portion of the rear fender of the vehicle, a hooked free end for the straight front end portion for disposal about the front edge of the rear side portion of the frame, a substantially V-shaped bracket disposed between the frame and the hooked free end, a straight bracket between the arms of the substantially V-shaped bracket, and means for securing the brackets to the frame and hooked free end.

2,171,105
FILE CASE
Reginald Wurzburg, Memphis, Tenn.
Application October 15, 1932, Serial No. 637,938
2 Claims. (Cl. 45—7)



1. In a file case having an outer shell open at one end, a tray of fiberboard or the like, said tray being open only at its top and comprising side members folded inward at the top to provide flaps extending downward to a line about midway of the height of the tray and adapted to bear resiliently against the ends of files placed in said shell, said flaps being longer than the distance between the front and rear ends of the tray, whereby they are caused to buckle at their intermediate portions for the purpose set forth.

2,171,106
STEAM LOCOMOTIVE
James G. Blunt, Schenectady, N. Y., assignor to American Locomotive Company, New York, N. Y., a corporation of New York
Application October 20, 1938, Serial No. 235,941
7 Claims. (Cl. 105—456)

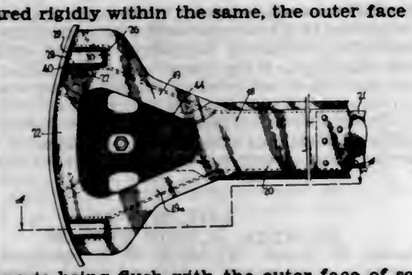


1. In a locomotive, the combination of a boiler; a structure secured to and extending rearwardly from the rear end portion of said boiler comprising substantially vertical side portions extending in a direction longitudinally of said boiler and an intervening portion tying said side portions together forming a rigid support for a cab; and a cab carried by said support, said structure further comprising an upper and a lower rod-like member extending forwardly from each side portion in vertically spaced relation to each other, each upper member being secured to and extending forwardly from the upper part of its respective side portion, and secured at its forward end to said boiler at the side thereof adjacent thereto, and each lower member being secured to and extending forwardly from the lower part of its respective side portion, and secured at its forward end to said boiler at the side thereof adjacent thereto, said members cooperating, the upper members to serve as tension members and the lower members to serve as compression members to resist weight imposed by said cab upon said structure.

2,171,107
UNDERFRAME
Albert G. Dean, Narberth, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application June 17, 1937, Serial No. 148,682
9 Claims. (Cl. 105—402)

1. A vehicle body comprising a unitary underframe member having a heavy central stem portion arranged for securement to a center sill and a transversely widened end sill portion having longitudinally deep pockets extending inwardly from its outer face, and posts having their lower ends of the depth of said pockets and fitted and

secured rigidly within the same, the outer face of

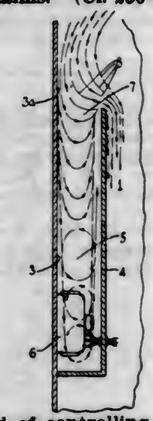


the posts being flush with the outer face of said end sill portion.

2,171,108
METHOD OF STABILIZING SILICON ALLOYS
Ernest F. Doom, Niagara Falls, N. Y., assignor to Electro Metallurgical Company, a corporation of West Virginia
No Drawing. Application June 29, 1937, Serial No. 150,938
2 Claims. (Cl. 148—7)

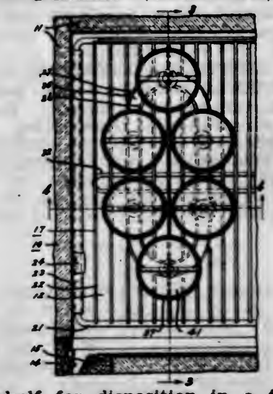
1. A method of preparing a chemically stable unbonded finely comminuted silicon alloy containing more than 35% silicon for use as a constituent of alkaline coating compositions, which comprises forming a thin superficial protective coating of oxide on said comminuted alloy by heating it in an oxidizing atmosphere at a temperature between 300° C. and 1000° C. for a time too short to cause the oxidation of a major part of the alloy.

2,171,109
HUMIDITY CONTROL
Charles R. Downs, Old Greenwich, Conn., and Joseph W. Spiselman, Brooklyn, N. Y., assignors, by mesne assignments, to The Calorider Corporation, Old Greenwich, Conn., a corporation of Connecticut
Application June 27, 1936, Serial No. 87,726
15 Claims. (Cl. 236—44)



1. The method of controlling the humidity of a heated enclosure, which includes controlling the operation of an air conditioning unit adapted to add moisture to or withdraw moisture from the air of said enclosure, in accordance with the relative humidity of the air in a substantially dead air space in moisture diffusing communication solely with the air in said enclosure, but subject to temperature change due to outside conditions.

2,171,110
REFRIGERATING APPARATUS
Robert N. Feicht, Dayton, Ohio, assignor to General Motors Corporation, Dayton, Ohio, a corporation of Delaware
Application September 4, 1937, Serial No. 162,509
4 Claims. (Cl. 211—151)



1. A shelf for disposition in a food storage compartment of a refrigerator cabinet and reticulated for the passage of air therethrough, said shelf having a flat food supporting surface extending throughout its entire area, means forming a substantially endless track portion in a part of the area of said shelf and at one side thereof for the reception of a plurality of gliders each adapted to support a container, the gliders having means thereon for locking same upon said track portion and acting as rollers with respect to one another whereby a glider may be pushed at the front of the shelf to cause all the gliders to travel around said track portion, said track portion forming a permanent part of the flat food supporting surface of said shelf and having a part thereof formed to permit release of the glider locking means and removal of the gliders from the shelf, and said track portion of said shelf being disposed in substantially the same plane with the food supporting surface thereof and forming an unobstructed continuation of the shelf food supporting surface to render the entire shelf area available for the support of food products thereon when the gliders are removed.

2,171,111
METHOD OF MANUFACTURING SPHERICAL LIGHT WEIGHT CONTAINERS
Walter H. Freygang, Essex Fells, N. J., assignor to Walter Kidde & Company, Inc., Bloomfield, N. J., a corporation of New York
Application February 3, 1936, Serial No. 62,027
8 Claims. (Cl. 29—148.2)



1. The method of making spherical metal containers for carbonic acid gas and the like comprising forming by successive drawing operations a cylinder open at one end and closed at the other and having a substantially uniform excessive wall thickness, forming a chucking lug on the closed end by removing metal therefrom externally from

a circumferential line near the closed end to a circumferential line near the open end, said chucking lug serving to hold the container during the subsequent operations, closing the open end of the container to form a spherical container, removing metal from the container internally and externally, and removing the chucking lug.

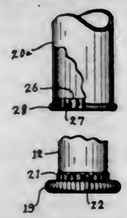
2,171,112

LIPSTICK CONTAINER

Allan C. Hoffman, Millidale, Conn., assignor to Scovill Manufacturing Company, Waterbury, Conn., a corporation of Connecticut

Original application December 22, 1936, Serial No. 117,137. Divided and this application February 10, 1938, Serial No. 189,740

3 Claims. (Cl. 206—56)



1. In a dispensing cylindrical container of the character disclosed, an outer casing, an inner shell rotatable within said casing, a carrier slidable within said shell, means for advancing and retracting said carrier coincident with the rotations of said shell, an exposed operating head provided at the lower end of said shell, an intermediate expanded portion formed between said head and said shell, a cylindrical closure cap adapted to telescope over the outside of said casing, a cylindrical sleeve secured to and disposed just within the open end of said cap, and means providing mutually interlocking elements engaged between said sleeve and said expanded portions when said cover is in assembled position.

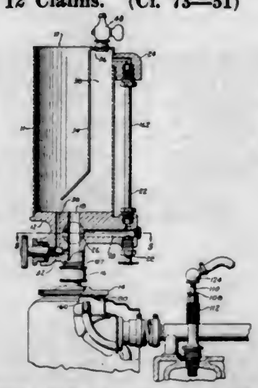
2,171,113

APPARATUS FOR DETECTING LEAKAGE

Howe H. Hopkins, Detroit, Mich., assignor to National Carbon Company, Inc., a corporation of New York

Application August 6, 1936, Serial No. 94,538

12 Claims. (Cl. 73—51)



1. A leakage detector for indicating gas leakage into a liquid chamber comprising a transparent tube adapted to contain liquid; a tank adapted to contain liquid; detachable means for connecting said tube and tank with said chamber; said detector having a passage therein between said chamber and the lower end of said tube, said detector being adapted to be filled with liquid, and means for controlling the height of liquid within said tube including means for admitting additional liquid to said tube from said tank, and for draining superfluous liquid from said tube.

2,171,114

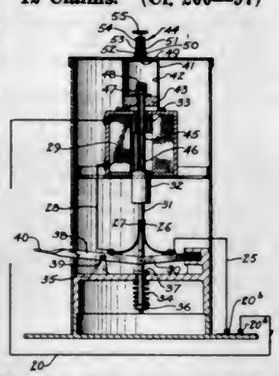
DELAYED ACTION SWITCH

Homer W. Jones, Westfield, N. J., assignor, by mesne assignments, to Union Carbide and Carbon Corporation, a corporation of New York

Application October 11, 1934, Serial No. 747,850

Renewed July 30, 1938

12 Claims. (Cl. 200—97)



1. A delayed-action circuit-breaker comprising a solenoid, a movable core operably associated with said solenoid, an electric circuit in series with said solenoid and including resilient contact members for making and breaking said circuit, a toggle carrying said contact members operated by said movable core to make and break said circuit quickly at a point in the movement of said core, a dash pot having a piston rigidly connected to said movable core, and a needle valve mechanism for regulating the action of said dash pot.

2,171,115

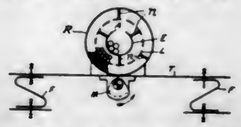
GRINDING DEVICE

Siegfried Kiesskalt, Frankfort-on-the-Main-Hochst, and Walther Mejer, Bad Soden, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

Application May 28, 1935, Serial No. 23,904

In Germany June 5, 1934

4 Claims. (Cl. 83—9)



1. A device for grinding dry substances, suspensions, pastes and the like mixed with hard fine-grained grinding elements comprising a substantially horizontally disposed vessel having a substantially arcuate bottom wall adapted to provide vertical support to the mixture of the substance to be ground and the grinding elements, at least one partition within said vessel disposed essentially parallel to said arcuate bottom wall

and rigidly connected thereto, means yieldingly and resiliently supporting said vessel and permitting each point thereof to vibrate in a closed curved path of relatively small amplitude in a vertical plane perpendicular to said arcuate wall and means for imparting vibratory movement to said vessel so that all points thereof vibrate in closed curved congruent paths in vertical planes perpendicular to said arcuate wall, said perpendicularity being such that the intersections of said planes with the arcuate wall are curves similar to the curvature of said arcuate wall.

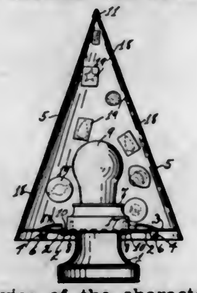
2,171,116

CHRISTMAS TREE DECORATION

Bernard F. Muldoon, Mountain View, N. J., assignor to Henry Hyman, Brooklyn, N. Y.

Application October 24, 1936, Serial No. 107,331

2 Claims. (Cl. 240—10)



1. In a device of the character described, a base having a disc-shaped top with its edge extending laterally outside of the upper end of said base, a cone having an annulus at its lower end with its inner edge supported by the outer edge of said disc-shaped top, means for detachably securing said annulus to said extending edge of said disc-shaped top, and an electric light socket supported by said base inside of said cone, the inner edge of said annulus being of smaller diameter than said disc-shaped top and of larger diameter than said socket.

2,171,117

METHOD OF PRODUCING SULPHONIC ACIDS AND SALTS THEREOF

Walther Schrauth, Berlin-Dahlem, and Eric Schirm, Dessau, Germany, assignors, by mesne assignments, to "Unichem" Chemikalien Handels A.-G., Zurich, Switzerland, a corporation of Sweden

No Drawing. Application December 31, 1930, Serial No. 505,975. In Germany September 29, 1930

7 Claims. (Cl. 260—513)

1. In the process of producing higher molecular sulphonic acids, the step which consists in converting a sulphuric acid acid ester of a higher molecular alcohol to a salt of a sulphonic acid by treatment first with sodium hydroxide to form a sodium ester salt and thereafter with potassium sulphite to obtain the salt of the suphonic acid.

3. The method of producing salts of higher molecular sulphonic acids in which the sulpho group is affixed to the end carbon atom of the chain, which comprises converting a higher molecular primary aliphatic alcohol to a bromide, dissolving the bromide in approximately 70 to 80% alcohol containing ammonium sulphite in solution, in a ratio of approximately one part of bromide to three parts of alcohol, and heating the mixture to a temperature approximately 120 to 124° C. in an autoclave to convert the bromide to a salt of sulphonic acid.

2,171,118

METHOD OF COVERING TENNIS BALLS

Samuel Graham Ball, Streetly, England, assignor to Dunlop Tire and Rubber Corporation, Buffalo, N. Y., a corporation of New York

No Drawing. Application November 4, 1937, Serial No. 172,777. In Great Britain October 13, 1936

7 Claims. (Cl. 154—16)

1. A method for forming cloth covered tennis balls which comprises partly fulling a textile cloth, applying sections of said partly fulled cloth to a rubber ball to cover the latter and thereafter completing the fulling of said cloth.

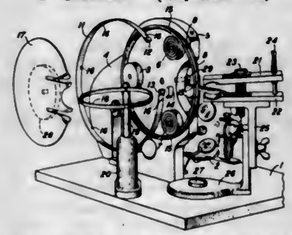
2,171,119

STRAND-WINDING MACHINE

William A. Belits, Dumont, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York

Application January 19, 1939, Serial No. 251,748

4 Claims. (Cl. 242—4)



1. A winding machine for winding strand material around a closed core which comprises a split grooved ring substantially semicircular in cross-section and means to rotate said ring, characterized in a flexible band which fits over said ring substantially covering the groove.

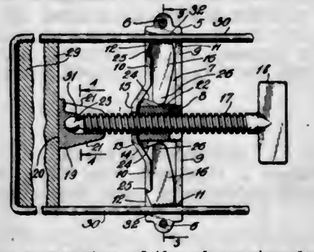
2,171,120

TIE WIRE APPARATUS

Edwin W. Bullard, Hamden, Conn.

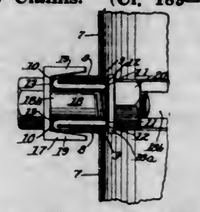
Application May 21, 1938, Serial No. 209,280

8 Claims. (Cl. 254—67)



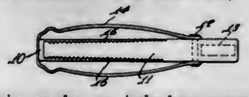
1. In an apparatus of the character described; a frame; a nut within the frame; levers within the frame, one upon each side of the nut; a member threaded through the nut, which when subjected to endwise pressure imparts a limited endwise movement to the nut within the frame and actuates said levers, whereby each lever holds a wire or the like projecting through a recess in the frame, which wires thereafter move with the frame as a unit during the continued application of said pressure.

2,171,121
CORNCRIB OR SIMILAR STRUCTURE
Charles E. Carr, Columbus, Ohio
Application August 25, 1937, Serial No. 160,845
5 Claims. (Cl. 189—3)



4. In a corn crib, a plurality of superposed horizontally positioned annular sections, a laterally extending flange formed at the upper and lower edges of each of said sections, the flanges of adjacent sections being disposed in vertically spaced planes, securing elements positioned in substantially parallel relationship with said flanges and extending through the spaces between said flanges, and means carried by said securing elements and extending over said flanges to prevent separation thereof.

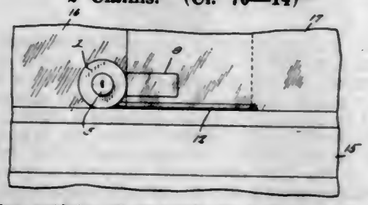
2,171,122
HAIR CURLER
Walter J. Gallagher, Yonkers, N. Y., assignor to Delamere Company, Inc., Jersey City, N. J., a corporation of Delaware
Application August 9, 1938, Serial No. 223,829
4 Claims. (Cl. 132—41)



1. In a hair curler, a tubular member, and a semi-tubular member pivotally connected to the tubular member and adapted to engage the hair to be wound on the tubular member, said curler having teeth thereon for smoothing the hair during a combing movement preparatory to winding the hair in a curl with no portion of said teeth protruding beyond the curler in its closed position.

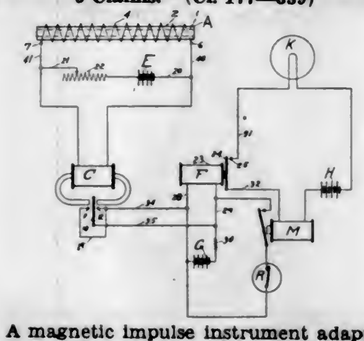
2. In a hair curler, a tubular member, and a semi-tubular member pivotally connected to the tubular member and adapted to engage the hair to be wound on the tubular member, said semi-tubular member having teeth along one or both of its longitudinal edges which teeth are shorter than the diameter of the tubular member and overlie said member in the closed position of the curler.

2,171,123
SHOWCASE LOCK
Edmund J. Gapinski, New York, N. Y.
Application February 8, 1939, Serial No. 255,333
2 Claims. (Cl. 70—14)



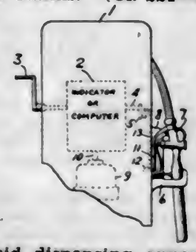
1. An article of manufacture for use in the making of a show case lock, and comprising a lock body, a rotatable member carried by the body, a latch secured to the rotatable member and disposed substantially at right angles to the axis of rotation of said member, and a straight, rigid arm fixedly secured to the body and disposed substantially in a common plane with the latch, the arm being bendable at the will of an operator, to form a finger disposed at an angle to the arm, and to determine the length of the arm.

2,171,124
MAGNETIC IMPULSE CONTACTOR
Mason V. Green, Lansing, Mich., assignor, by mesne assignments, to Hayes Electric Manufacturing Company, Lansing, Mich., a corporation of Michigan
Application August 20, 1935, Serial No. 36,997
5 Claims. (Cl. 177—339)



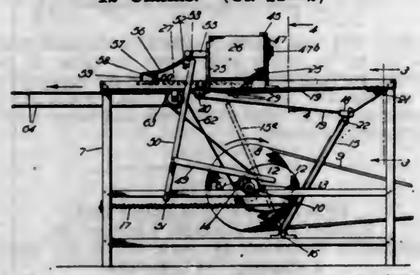
1. A magnetic impulse instrument adapted for registering the passing of metallic objects and operative therewith, comprising a permanent magnet surrounded by continuous induction coil winding of insulated wire, a sensitive electric relay instrument formed with an energizing coil and external electric circuit contact terminals, intervening circuit wires electrically connecting said relay energizing coil with the magnet induction coil winding, a variable resistance unit and battery electrically connected between said intervening circuit wires, and means electrically connecting the relay external circuit contact terminals in another separated electric circuit.

2,171,125
FLUID-DISPENSING APPARATUS
Harry Heller, Ardmore, Pa., assignor to Sun Oil Company, Philadelphia, Pa., a corporation of New Jersey
Application May 4, 1937, Serial No. 140,675
4 Claims. (Cl. 221—95)



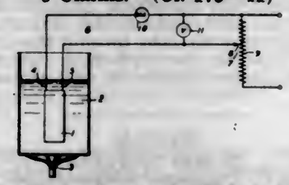
1. In a fluid dispensing apparatus having a dispensing nozzle and a support therefor, latch means on said nozzle, bolt means on said support, mechanism for indicating the amount of fluid dispensed, means for returning the indicating mechanism to its zero position, said last mentioned means having associated therewith mechanism whereby said bolt means is removed from a position where it could engage said latch means when the means for returning the indicating mechanism to zero position is operated, and means associated with said bolt means whereby said bolt means will be brought into locking engagement with said latch means when the nozzle is returned to its support and the indicating means is not in zero position.

2,171,126
MACHINE FOR MAKING BOOK COVERS
Fred Humphrey and Adam Krieger, Denver, Colo., assignors to The Pass Book and Check Cover Company, Denver, Colo.
Application June 14, 1937, Serial No. 148,140
12 Claims. (Cl. 11—2)



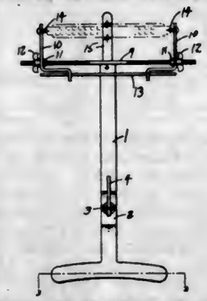
1. In a cover making machine, a carrier element mounted for reciprocatory movement, means for reciprocating the carrier element, a relatively stationary magazine positioned above the carrier element, means for releasably supporting a stack of boards in the magazine, a positioning lug and a stripper lug secured to the carrier element, for positioning a sheet of cover material thereon, the stripper lug forming a means cooperatively related to the board supporting means of the magazine, for removing the lowermost board from the stack and depositing it in a predetermined position on the sheet of cover material when the carrier element moves in one direction, and means for removing the assembly of board and cover material from the carrier element when it moves in the other direction.

2,171,127
CONDENSER
Girard T. Kohman, Summit, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application June 21, 1938, Serial No. 214,905
5 Claims. (Cl. 175—41)



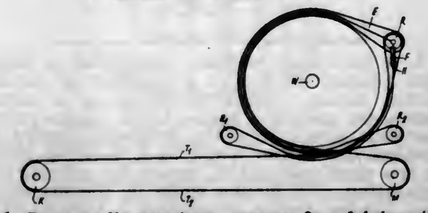
2. A method of manufacturing a condenser having electrode layers and interposed layers of dielectric material, comprising maintaining the condenser at a temperature slightly below the melting point of the electrode material, and then slowly applying an increasing electrical potential to the condenser to raise the temperature of portions of the electrodes in the vicinity of points of imperfection in the dielectric material to cause melting of and consequent changes in the electrode material in the vicinity of the points of imperfection in the dielectric material.

2,171,128
INSTRUMENT HOLDER
Kenneth D. Koons, Salem, Ohio
Application June 13, 1938, Serial No. 213,318
4 Claims. (Cl. 84—379)



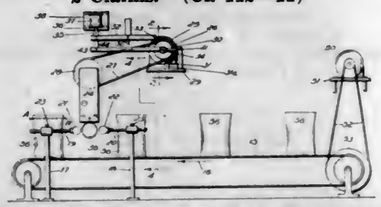
1. An instrument holder adapted to be attached to a stringed instrument and comprising an upright body member, a clamping member adjustably attached to the said upright body member near the lower end thereof, so as to form a clamp in conjunction with the lower end of the said upright body member, a rod attached to the upper end of the said upright body member, a guide bar attached to the said upright body member adjacent to and below the said rod, a pair of secondary clamps both adapted to slidably engage both the said rod and the said guide bar, means positioned on the said rod adapted to hold the said secondary clamps in any desired position, pivot lugs affixed to the upper ends of the said secondary clamps and adapted to engage the sides of a harmonica, together with a spring clip attached to the said body member and adapted to engage the back of a harmonica and hold it in playing position.

2,171,129
TUNING INDICATOR FOR RADIO RECEIVERS
Werner Mahnken, Blankenfelde, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application August 11, 1938, Serial No. 224,278
In Germany August 25, 1937
6 Claims. (Cl. 116—124.1)



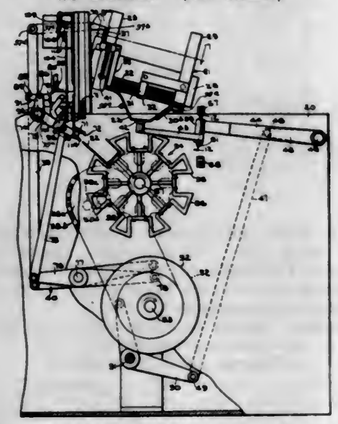
1. In a radio receiver, means for driving the tuning mechanism thereof and for providing an indication of its adjustment, comprising a disk movable with the tuning mechanism, cord-guiding means carried by said disk adjacent its periphery, a driving cord having a portion thereof doubled back upon itself and entrained on said disk, the looped portion of said cord engaging said cord-guiding means, and said driving cord having a rectilinear portion which carries an indicator pointer.

2,171,130
BAG-CLOSING APPARATUS
John D. Merrifield, Rocky Ford, Colo.
Application September 7, 1937, Serial No. 162,748
2 Claims. (Cl. 112—11)



1. In bag-closing apparatus, a bag-conveyor, a bag-sewing mechanism, a source of light directing a beam across the path of bags carried on the conveyor, and a pair of photoelectric cells spaced in the direction of travel of the bags and positioned in the beam for starting and stopping the sewing mechanism according to the position of said bags, and means for adjusting said cells different distances apart for varying the lengths of stitching at the ends of the bags.

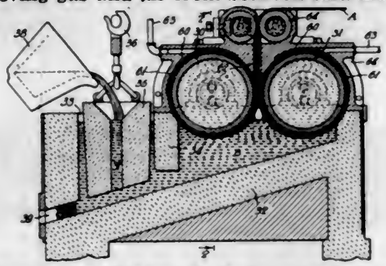
2,171,131
CARTON AND ARTICLE FEEDING MECHANISM
Michael J. Milmoe, Glen Ellyn, and Clarence J. Malhiot, Oak Park, Ill., assignors to F. B. Redington Co., Chicago, Ill., a corporation of Illinois
Application June 21, 1937, Serial No. 149,424
26 Claims. (Cl. 93—3)



1. A packaging machine comprising a magazine adapted to receive a plurality of stacked carton blanks, means for receiving a carton, means for placing a carton blank in the carton receiving means from the magazine, means for shaping the carton blank as it is being placed in the receiving means, means for spacing and separating said blanks while in the magazine, said placing means comprising a suction head, mounted on a reciprocating suction arm, and a valve carried by the suction arm to control the suction to the head.

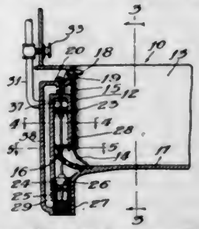
2,171,132
METHOD OF FORMING ELEMENTS FROM MOLTEN METAL
Aaron Simons, New York, N. Y.
Application June 19, 1937, Serial No. 149,070
6 Claims. (Cl. 22—200.1)

6. The process of producing formed products directly from heated material, which comprises maintaining heated material, moving the surface of a relatively cool member through said heated material to form upon said moving surface a plastic or solid layer of said heated material, removing gas and air from between said moving



surface and said layer of plastic or heated material so as to cause said layer to cling to said moving surface and to enable the moving surface to convey the layer beyond the limits of the heated material, and to deliver said layer free of the moving surface.

2,171,133
DUAL BATHTUB CONTROL
Samuel John Stanton, Chicago, Ill.
Application February 28, 1938, Serial No. 193,039
4 Claims. (Cl. 4—196)

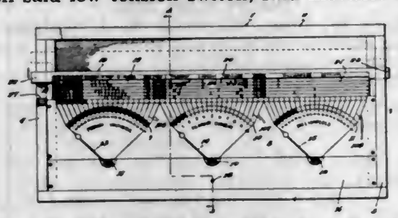


1. In a cleansing water receptacle having a surrounding upright wall and a floor member, a common hot and cold water supply inlet in communication with the interior of said receptacle substantially at the junction of said wall and floor member and an over-flow outlet near the rim of said receptacle, a chamber, for mixing the supply, confluent with and above said supply inlet, a drain outlet below said supply inlet and said mixing chamber, a grating safeguard for said supply inlet and said drain outlet, a removable closure for said drain outlet below said grating, the removal of said closure draining said receptacle through said supply inlet past said grating, the said closure, in closure position contrived to hold the water fall from the chamber for deflection into the said bathtub, operating outside of said common supply inlet.

2,171,134
X-RAY SYSTEM
John F. Timmons, Rochester, N. Y.
Application August 8, 1936, Serial No. 94,993
7 Claims. (Cl. 250—94)

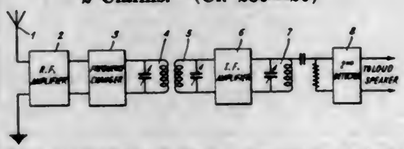
1. In an X-ray system, a plurality of X-ray tubes, a high tension switch, a low tension switch mechanically connected with said high tension switch and adapted to operate simultaneously therewith, said high tension switch having pairs of contacts, means connecting one pair of said contacts with one of the X-ray tubes, means

connecting another pair of said contacts with another of said X-ray tubes, a casing, meters carried by the casing, a movable scale board carried by the casing and having indicia relating to X-ray operations and the X-ray tube, said scale board having sight openings adjacent the indicia relating to said tubes, indicating lamps carried in the casing, contacts carried by the scale board, a source of low tension current, said source of low tension current being electrically connected with said low tension switch, said movable scale



board being shiftable for disposing scales thereon adjacent the meter scales to designate the filament current and high tension voltage to be applied to a given tube, said movable scale board being shiftable for completing the circuit through certain of said contacts and low tension switch whereby the tube indicated by the indicia adjacent said contacts will be energized and the signal lamp energized for indicating the energization of said tube prior to application of high tension current to said tube.

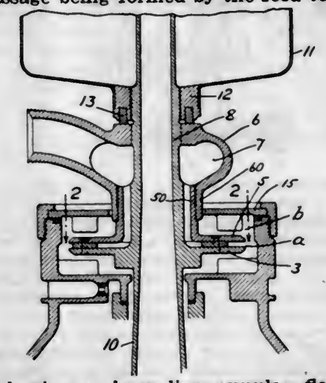
2,171,135
RADIO RECEIVING CIRCUIT
Noël Atkinson, London, England, assignor to Electric & Musical Industries Ltd., Hayes, England
Application April 28, 1937, Serial No. 139,357
In Great Britain May 5, 1936
2 Claims. (Cl. 250—20)



1. In a superheterodyne receiver, a tunable high frequency circuit and a local oscillator which combine to produce a resultant intermediate frequency, the local oscillator having a tendency to drift in frequency during the warming up period thereby causing displacement of the intermediate frequency, a pair of coupled circuits capable of passing with uniform amplification a band of frequencies wide enough to accommodate the displacement, and a single sharply tuned circuit which combines with the pair of coupled band pass circuits to produce a characteristic response curve which is peaked at only one end, the tunable high frequency circuit being tuned to said peak frequency.

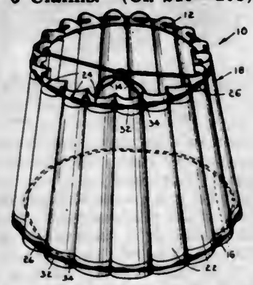
2,171,136
CENTRIFUGAL SEPARATOR PROVIDED WITH SPECIAL DISCHARGES
Nore Einar Bergner, Stockholm, Sweden, assignor to The De Laval Separator Company, New York, N. Y., a corporation of New Jersey
Application July 24, 1935, Serial No. 32,826
In Sweden September 1, 1934
1 Claim. (Cl. 233—22)

In a centrifugal separator, the combination with a revoluble bowl chamber, of a non-revoluble central feed tube extending therethrough, a paring device comprising a lower paring disc member in tight relation with the feed tube and a separate upper paring disc member having an exterior annular shoulder, the bowl chamber enclosing the paring device, a separate casing enclosing a receiving chamber above the bowl chamber, there being a liquid outflow passage between the discs of the paring device communicating with the receiving chamber, the inner wall of said outflow passage being formed by the feed tube, said



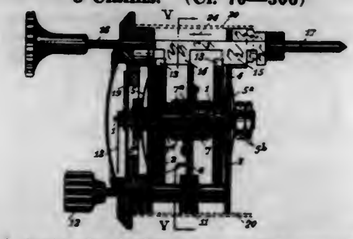
casing having a depending annular flange extending toward and into the bowl chamber and engaging the shoulder on the outside of the upper paring disc member, and means to clamp the upper paring disc member between the flange of the casing and the lower paring disc member, whereby the parts may be readily assembled and disassembled and any leakage from the receiving chamber will be carried inside said flange into the bowl chamber.

2,171,137
LAMP SHADE AND COVERING THEREFOR
Alfred Burke, New York, N. Y.
Application March 11, 1938, Serial No. 195,262
6 Claims. (Cl. 240—108)



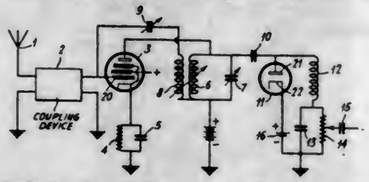
1. A lamp shade comprising a peripheral frame member, a fluted covering carried by said peripheral member and for that purpose provided with spaced notches in which said peripheral member is engaged by said covering, and means for fastening said covering to said member comprising a cord or the like extending around said covering on the outer surface thereof in engagement therewith, said covering having openings therein arranged in spaced relation between said notches susbtantially in alignment therewith peripherally of the shade, and said cord engaging said covering in said openings in position to substantially conceal the portions of said peripheral member in the notches from view externally of the shade.

2,171,138
AUTOMATIC LOCKING DEVICE
Ernest Canepa, Gemenos, Bouches-du-Rhone, France
Application March 4, 1938, Serial No. 193,832
In France August 19, 1937
5 Claims. (Cl. 70—306)



1. A device for locking a movable member comprising a clock dial, a shaft rotatably mounted substantially at right angles to said dial and projecting therethrough, a gear loosely mounted upon said shaft, a sleeve loosely mounted upon said shaft and projecting through said dial, hands secured to the ends of said shaft and sleeve, means for manually rotating said gear, means releasably connecting said gear with said shaft and with said sleeve, whereby said gear may alternately rotate said shaft and said sleeve, and means associated with said shaft and said sleeve for locking said movable member in a predetermined position.

2,171,139
REGENERATIVE RADIO RECEIVER
Peter H. K. G. Cornelius, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands, a corporation of the Netherlands
Application April 21, 1937, Serial No. 138,132
In the Netherlands June 29, 1936
6 Claims. (Cl. 250—20)

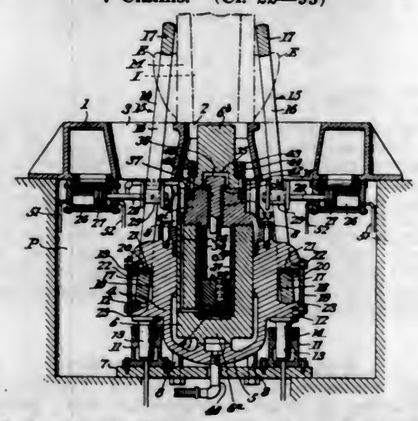


1. In a device of the class described, the combination of a parallel resonant circuit tunable to a desired signal frequency, a detector having a cold electrode and a heated cathode, means connecting said detector electrodes in parallel across said resonant circuit and means for maintaining said cold electrode at a potential which is negative with reference to that of said heated cathode by such an amount that said detector has no damping action on said resonant circuit for small variations of voltage across said detector electrodes.

2,171,140
PRESSURE SENSITIVE ADHESIVE SHEET
Ralph T. K. Cornwell, Spotsylvania, Va., assignor to Sylvania Industrial Corporation, Fredericksburg, Va., a corporation of Virginia
No Drawing. Application August 1, 1936, Serial No. 93,790
4 Claims. (Cl. 91—68)

1. As an article of manufacture, an adhesive material comprising a pellicle composed of a substance selected from the class consisting of non-fibrous cellulose hydrate, alkali-soluble cellulose ethers and insolubilized gelatine and having a pressure-sensitive rubber adhesive coating thereon and an intermediate coating of a water-soluble agglutinant substance selected from the class consisting of gelatine, glue, dextrine and casein, said agglutinant being in the form of a hydrogel simultaneously formed in situ with the rubber coating.

2,171,141
INGOT EJECTOR
Richard W. Dinzl, Westfield, N. J., assignor to The Watson-Stillman Co., Roselle, N. J., a corporation of New Jersey
Application August 16, 1937, Serial No. 159,266
7 Claims. (Cl. 22—95)



6. A core-ejecting apparatus comprising a reciprocably mounted ram to engage a core endwise and force it free from an article containing it, fluid pressure means for advancing the ram to apply a sustained pressure upon the end of the core, a rearwardly facing abutment borne by the ram and spaced rearwardly from the forward, core-engaging end of the ram, jolt means operable to impact said abutment in the direction of advance of the ram, and fluid-pressure means for operating said jolt means intermittently and operable concurrently with said first fluid pressure means to subject the ram to repeated impacts in the direction of its advance and while it is held pressed against the core by said first fluid pressure means.

2,171,142
CLEARING DEVICE FOR BEER DISPENSING SYSTEMS
William G. Doh, Philadelphia, Pa.
Application November 1, 1937, Serial No. 172,236
4 Claims. (Cl. 225—1)



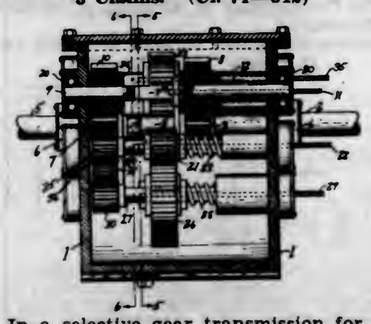
1. In combination with a beer dispensing system including a dispensing faucet and means for cooling beer in the dispensing system, apparatus for replacing the beer in the dispensing system between the faucet and cooling means with compressed air comprising a chamber adapted to contain water, means for conductively connecting said chamber to the faucet, and means for introducing air under pressure into the said chamber whereby the air is passed through the water and then forced into the faucet against the pressure of the beer in the system.

2,171,143
THICK BUTT SHINGLE
Clarence R. Eckert, Englewood, N. J., assignor, by mesne assignments, to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Original application August 14, 1926, Serial No. 129,132. Divided and this application October 28, 1931, Serial No. 571,543
2 Claims. (Cl. 108—8)



1. A thick butt shingle consisting of a saturated, fibrous foundation, a layer of waterproof coating material of substantially uniform thickness completely covering the face of said foundation, a layer of granular material partially embedded in said layer of coating material and substantially completely covering the face of said foundation, a second layer of coating material of substantially uniform thickness extending from the forward edge of said element and substantially completely covering the granular material on the lower portion only of the face of said element to be exposed to the weather, said second layer of coating material being extended about the forward and side edges of the element but not upon the back of the element, thus sealing the cut edges of the element, a second layer of granular material partially embedded in the second layer of coating material, and the back of said saturated, fibrous foundation having thereon only a single layer of coating material covered with non-cementitious material.

2,171,144
SELECTIVE GEAR TRANSMISSION
William F. Frock, North Jackson, Ohio
Application March 9, 1938, Serial No. 194,773
3 Claims. (Cl. 74—342)

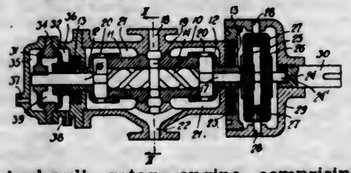


1. In a selective gear transmission for motor vehicles comprising a housing, a principal shaft positioned therein and adapted to be connected to a clutch assembly at the outer end thereof, the inner end thereof adapted to receive a stub end of a drive shaft also positioned in the housing, a plurality of secondary shafts positioned at fixed locations adjacent thereto, a slideable drive gear positioned on each of the said plurality of secondary shafts and a driven gear keyed to each of the said plurality of secondary shafts, a main drive gear keyed to the said principal shaft and a main driven gear keyed to the said drive shaft, each of the said slideably positioned drive gears adapted to be meshed with the said main drive gear, each of the said driven gears being continually meshed with the said driven gear directly, or indirectly through idler gears, together with coil springs positioned on each of the said plurality of secondary shafts and adapted to hold the said splined drive gears in a neutral position, flexible cables attached to each of the said plurality of drive gears and adapted to move the said drive gears into mesh with the said main drive gear.

2,171,145
LUMINESCENT MATERIAL
Humboldt W. Leverenz, Collingswood, N. J., assignor to Radio Corporation of America, a corporation of Delaware
No Drawing. Application March 19, 1937, Serial No. 131,862
9 Claims. (Cl. 250—81)

2. A crystalline luminescent material which may be represented by the general formula $x(ZnSiO_4)y(ZrSiO_4):Mn$; where the molar ratio x/y may be varied from 1/10,000 to 10,000.

2,171,146
HYDRAULIC ROTARY ENGINE
Carl Oscar Josef Montelius, Stockholm, Sweden, assignor to Aktiebolaget Imo-Industri, Stockholm, Sweden, a corporation of Sweden
Application April 14, 1938, Serial No. 201,941
In Sweden December 2, 1936
9 Claims. (Cl. 74—189.5)

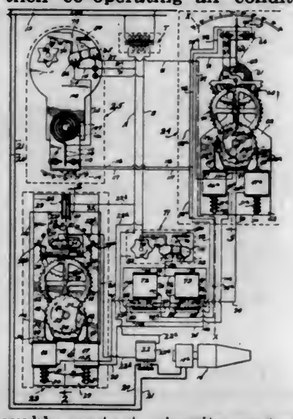


1. A hydraulic rotary engine, comprising two rotatable members each adapted to be actuated by a pressure fluid, a differential gear comprising a rotary drum having a shaft, two sun wheels and a plurality of planet wheels rotatably mounted on said drum, means for connecting each of said rotatable members with one of said sun wheels, and means for controlling the flow of fluid through at least one of said rotatable members.

2,171,147
METHOD OF AND APPARATUS FOR CONTROLLED AIR CONDITIONING
William J. Peltier, Minneapolis, Minn., assignor of one-third to Merchant & Merchant, Minneapolis, Minn.
Application May 20, 1935, Serial No. 22,394
4 Claims. (Cl. 236—91)

2. In an air conditioning system, the combination with an air conditioning device associated with a space, of adjustable means for variably regulating the effective tempering rate of the conditioning device and maintaining the same at different levels determined by its adjustment, and automatic control mechanism for adjusting the said adjustable means in a desired rela-

tion to changes in an air condition outside of the space, said automatic control mechanism comprising a reversible electric motor for reversibly adjusting said adjustable regulating means, an air condition sensitive element subject to the influence of changing conditions outside of the space, a switch comprising laterally spaced relatively fixed contacts and a common relatively movable contact, said relatively movable switch contact being operatively associated with said air condition sensitive element and being adapted to be moved thereby between and into opposite of said relatively fixed switch contacts, reversible electric motor means for moving the said relatively fixed switch contacts with respect to their co-operating air condition re-



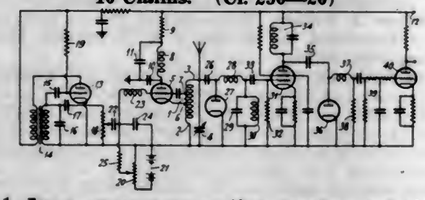
sponsive movable contact, circuits controlled by said switch for operating said reversible motors simultaneously, the common movable switch contact and one of its co-operating relatively fixed contacts controlling operation of each of said motors in one direction and the common movable switch contact and the other of said relatively fixed contacts controlling operation of said reversible motors in the other direction, the direction of relative movement of the relatively fixed switch contacts by their co-operating motor under engagement of the common movable switch contact with either thereof being in a direction to bring the engaged contact out of engagement with air condition responsive movable contact.

2,171,148

SUPERREGENERATIVE RECEIVER

William Spencer Percival, Ealing, London, England, assignor to Electric & Musical Industries Limited, Hayes, Middlesex, England, a company of Great Britain

Application November 17, 1936, Serial No. 111,231
In Great Britain November 20, 1935
10 Claims. (Cl. 250—20)



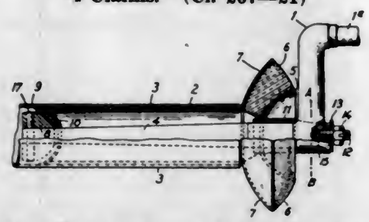
1. In a super-regenerative receiver an electronic tube including a cathode, control grid and anode, external connections between said tube elements forming an anode circuit and a control grid circuit, a resonant circuit associated with said control grid circuit, means for coupling the anode circuit to the control grid circuit in such a manner that a positive feed back can occur, a source of quenching oscillations, said source of quenching oscillations being provided with means for generating trains of oscillations of a wave form such that between a burst of oscillation and the subsequent quenching period the amplitude of the quenching oscillation has a value corresponding closely to critical reaction for a time which is a substantial portion of a cycle of the quenching oscillation.

2,171,149

RESILIENT MOUNTING

Kurt Schröter and Hans O. Schröter, Wechmar, Gothaland, Germany

Application March 22, 1938, Serial No. 197,468
In Germany August 7, 1936
4 Claims. (Cl. 267—21)



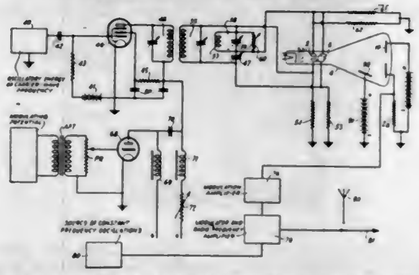
1. A resilient mounting for the suspension of power-driven vehicles and the like, said mounting comprising an elastic body which increases outwardly in cross-section, two curved members firmly connected with said elastic body and situated on two sides thereof, an axle, means connecting one of said curved members with said axle, an axle bearing connected with said axle, and a sleeve connected with said axle bearing and the other one of said curved members, said sleeve constituting a carrier for the axle bearing, said curved members and said elastic body being situated at the outer end of said sleeve.

2,171,150

ELECTRONIC MODULATOR FOR CONSTANT FREQUENCY VARIABLE DOT TRANSMISSION

Robert Evart Shelby, Teaneck, N. J., assignor to Radio Corporation of America, a corporation of Delaware

Application September 14, 1936, Serial No. 100,627
12 Claims. (Cl. 179—171)



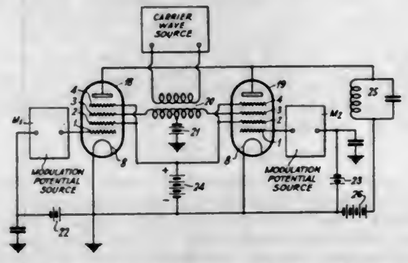
1. In signalling apparatus comprising a cathode ray tube having an emission element, pairs of deflecting plates, and a target anode comprising at least two conductively separated conducting elements or surfaces one of which is heart-shaped and located wholly within the area of the other, the method of producing constant frequency variable dot wave energy, the duration of the dots of which are characteristic of signalling potentials which includes the steps of, producing an electron stream of constant intensity focussed on said conducting surfaces or plates, and deflecting the path of said stream in accordance with phase displaced voltages characteristic of signalling potentials.

2,171,151

CIRCUIT FOR AMPLITUDE MODULATION CARRIER WAVE

Rudolf Urtel, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application October 27, 1936, Serial No. 107,816
In Germany November 22, 1935
5 Claims. (Cl. 250—9)



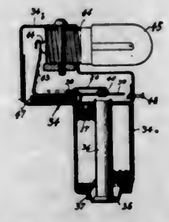
1. In a signalling system, a pair of electron discharge tubes each having an anode and a plurality of auxiliary electrodes, means for applying wave energy in phase opposition to like auxiliary electrodes in said tubes, means for applying a plurality of sources of different modulating potentials each of said modulating potentials occupying a different frequency band to corresponding auxiliary electrodes in said tubes, and an output circuit connected to the anodes of said tubes.

2,171,152

ELECTRICAL SIGNALING SYSTEM AND DEVICE THEREFOR

William R. M. Very, Philadelphia, Pa.

Application April 27, 1936, Serial No. 76,584
3 Claims. (Cl. 177—311)



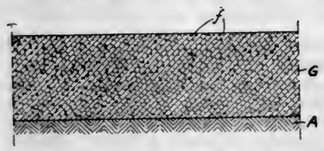
1. A unitary structure comprising a casing having an extended portion forming a plug adapted to fit into a lamp socket and make contact with one side of the circuit connected thereto, said portion having a terminal insulatedly supported in the outer end thereof adapted to connect with a contact of the lamp socket, said casing having two lamps connected thereto and mounted in the upper portion thereof, and magnetically operated switching mechanism including a wire wound core mounted below said lamps and extending into said plug portion of said casing and adapted upon failure of one of said lamps to switch the remaining lamp into circuit with said casing and contact.

2,171,153

PAVEMENT

John B. Warden, Harrisburg, Pa., assignor to Barber Asphalt Corporation, Barber, N. J., a corporation of New Jersey

Application December 15, 1936, Serial No. 115,898
19 Claims. (Cl. 94—25)



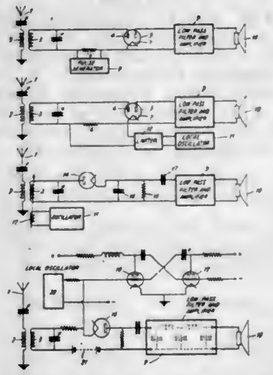
1. A pavement comprising a cold compacted stabilized mixture of earthy materials having dispersed therein without substantial coalescence a solid bituminous composition in finely divided form the solid bituminous composition including a water-insoluble substance capable of taking up moisture.

2,171,154

RADIO RECEIVER

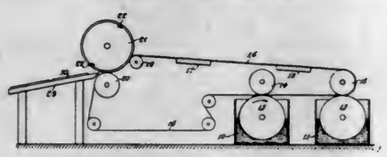
George Maurice Wright, London, England, assignor to Radio Corporation of America, a corporation of Delaware

Application May 14, 1935, Serial No. 21,346
In Great Britain June 2, 1934
6 Claims. (Cl. 250—20)



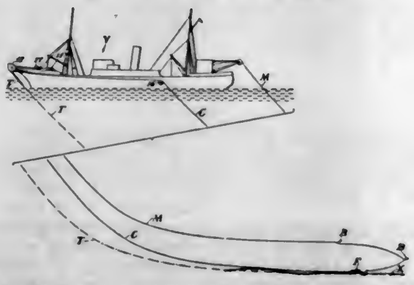
1. In a receiver of the homodyne type in combination, a signal input circuit including means for tuning the circuit to the frequency of desired signal energy, a heterodyne frequency generator, a combining circuit including a rectifier tube and means for feeding the desired signal energy to the combining circuit, means for feeding the heterodyne energy to the combining circuit, said last named means including a limiter device interposed between the heterodyne frequency generator and the combining circuit, said limiter device being arranged so as to distort the wave form of the energy produced by the heterodyne frequency generator so that the energy impressed upon the combining circuit through the limiter device has a non-sinusoidal wave form.

2,171,155
METHOD OF MAKING ASBESTOS-CEMENT SHINGLES
William R. Wright, Jr., Wharton, N. J., assignor to The Patent and Licensing Corporation, New York, N. Y., a corporation of Massachusetts
Application April 12, 1937, Serial No. 136,302
1 Claim. (Cl. 92—66)



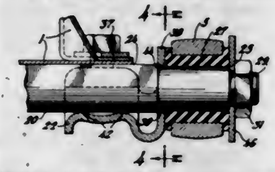
A method of making shingles or the like from a wet mixture of hydraulic cement and asbestos fiber comprising accumulating a plurality of superposed thin plies of the cement and fiber mixture upon a substantially cylindrical but irregular surface to form a layer wherein the ply adjacent said surface has an irregular contour complemental in form to that of the said surface and the successive ones of said superposed plies exhibit said contour to an increasingly lesser extent with the outermost one of said plies substantially smooth, accumulating a plurality of superposed additional plies over the outermost of said first named plies until a sheet of the desired thickness is built up on said surface, separating the sheet from the surface, subdividing said sheet into elements of suitable size and compacting the elements while still wet between surfaces of compressible deformable material to prevent substantial deformation of said irregular contour during said compacting.

2,171,156
SYSTEM AND APPARATUS FOR DETERMINING AT A DISTANCE THE ANGULAR POSITION OF A SUBMARINE DEVICE
Chester S. Lawton, Ridgewood, N. J., assignor to The Western Union Telegraph Company, New York, N. Y., a corporation of New York
Application February 11, 1938, Serial No. 189,971
12 Claims. (Cl. 177—311)



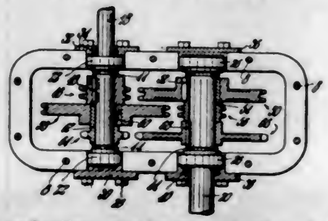
1. Submarine apparatus comprising a device of sufficient length to enable determination of the slope of the bed of the ocean or other body of water and means for causing the device to travel along on the said bed, said device having means operable under the water for transmitting signals corresponding to angular positions assumed by the device with respect to the horizontal as it travels along on said bed, and receiving means located at a distance from the transmitting means and responsive to said signals to indicate the angular positions of said device.

2,171,157
PIVOTAL JOINT
Verner P. Mathews, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application May 16, 1938, Serial No. 208,255
2 Claims. (Cl. 287—85)



2. A pivotal joint between two members, including a shaft having a flat side adapted to be clamped to one of the members by a generally U-shaped clamp having an end lug encircling the shaft and abutting against a shoulder formed by a reduced end of the shaft extending through the lug; said reduced end of the shaft extending and protruding through a resilient bushing in the other member, and said protruding end of the shaft being screw threaded and provided with a nut whereby the shoulder on the shaft may be held tightly against the end lug of the clamp and the resilient bushing may be squeezed axially against said lug, into binding engagement with both of said members.

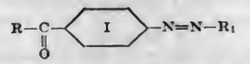
2,171,158
SPEED REDUCING MECHANISM
John F. McCann, Longmeadow, Mass., assignor to Baldwin-Duckworth Chain Corporation, Springfield, Mass., a corporation of Massachusetts
Application December 2, 1938, Serial No. 243,585
1 Claim. (Cl. 74—219)



Speed-reduction apparatus of the class described comprising in combination, a closed housing including spaced front and rear walls, aligned bearings in said walls for spaced parallel input and output shafts, input and output shafts journalled in said bearings for rotation, a drive sprocket fixed on one end portion of said input shaft closely adjacent its bearing in said rear wall, a hub member freely rotatable on the other end portion of said input shaft, the inner end of said hub member being closely adjacent the inner face of said drive sprocket and its outer end being closely adjacent the opposite bearing in said front wall so as to prevent appreciable axial movement of the hub member on the shaft, said hub member being provided with a pair of spaced sprockets in fixed relation thereto so as to be rotatable therewith, a sprocket member fixed on one end portion of said output shaft closely adjacent its bearing in said front wall, a hub member freely rotatable on the other end portion of said output shaft, the inner end of the second-named hub member being closely adjacent the inner face of said sprocket member and its outer end being closely adjacent the opposite bearing in said rear wall so as to prevent appreciable axial movement of the second-named hub member on the shaft, said second-named hub member being provided with a pair of spaced sprockets in fixed relation thereto so as to be rotatable therewith, a chain operatively connecting said drive sprocket and that one of the pair of sprockets on the second-named hub member which is nearer said rear wall, a chain operatively connecting that sprocket of the pair on the first-named hub member which is nearer the drive sprocket and the other sprocket of said pair on the second-named hub member, and a chain operatively connecting said sprocket member and the other sprocket of the pair on the first-named hub member.

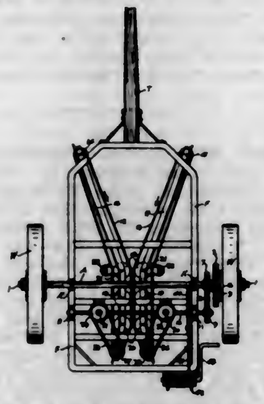
2,171,159
AZO COMPOUNDS AND PROCESS FOR COLORING THEREWITH
James G. McNally, Joseph B. Dickey, and Werner H. Zugschwerdt, Rochester, N. Y., assignors to Eastman Kodak Company, Rochester, N. Y., a corporation of New Jersey
No Drawing. Application March 17, 1938, Serial No. 196,480
18 Claims. (Cl. 8—50)

1. Azo dye compounds having the general formula:



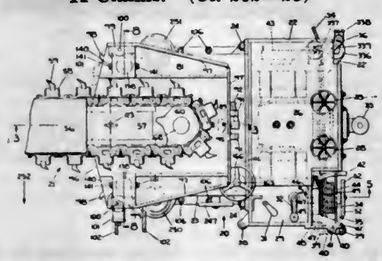
wherein R represents a heterocyclic nucleus selected from the group consisting of a furan, a thiophene and a pyrrol radical, R_1 represents a member selected from the group consisting of a benzene nucleus, a naphthalene nucleus, a heterocyclic nucleus and a hydroaromatic nucleus and wherein the nucleus designated I may contain a member selected from the group consisting of an alkyl group, an alkoxy group, a halogen atom and a nitro group.

2,171,160
PLANT HUSBANDRY APPARATUS
Henry Meiners, Township 14, Whitman County, Wash.
Application November 1, 1937, Serial No. 172,200
3 Claims. (Cl. 47—57)



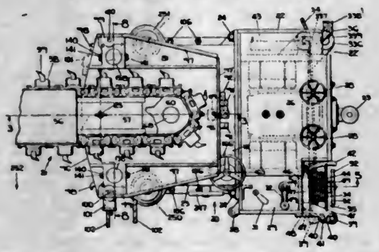
1. In a plant-husbandry implement, the combination with a vertically adjustable main frame and an under-frame rigid therewith, of a pair of laterally movable spring-pressed belt-frames mounted in the under-frame, a pair of opposed endless presser-belts mounted in the belt-frames and adapted to straddle a row of plants, a pair of longitudinally extending shoes having outwardly diverging front ends and mounted on the under frame beneath the presser belts, and resilient means between the under-frames and the belt-frames for applying a lateral squeezing pressure to the presser belts.

2,171,161
MINING MACHINE
Lewis E. Mitchell, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application April 25, 1936, Serial No. 76,456. Divided and this application March 17, 1937, Serial No. 131,375
11 Claims. (Cl. 262—28)



2. In a mining machine, the combination with a frame, of a vertical drive shaft, a cutter mechanism, a motor, drive means for driving said cutter mechanism from said motor including said vertical shaft and a clutch, elevating means connected to be driven from said motor for adjusting the elevation of said cutter mechanism with respect to said frame including said vertical shaft and a clutch, a feed drum, and gear means for operating said feed drum from said motor including a clutch, all of said clutches being concentric with the axis of said vertical drive shaft to provide a compact mining machine.

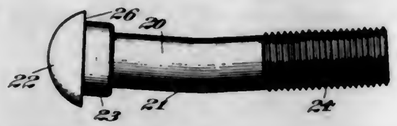
2,171,162
MINING MACHINE
Lewis E. Mitchell, Columbus, Ohio, assignor to The Jeffrey Manufacturing Company, a corporation of Ohio
Original application April 25, 1936, Serial No. 76,456. Divided and this application March 17, 1937, Serial No. 131,376. Renewed May 27, 1939
21 Claims. (Cl. 262—30)



1. In a mining machine, the combination with a frame, of an operating drum mounted thereon for rotation, a motor, means for driving said operating drum from said motor comprising a gear mounted against rotation and adapted to walk around another gear, a planetary mechanism in-

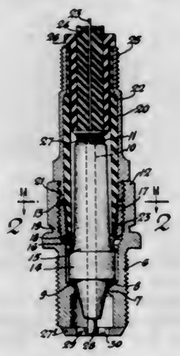
cluding two brake drums, means for restricting rotation of said brake drums alternately, and means constructed and arranged to rotate said operating drum at a relatively fast speed when one drum is restricted, and at a relatively slow speed when the other drum is restricted.

2,171,163
FASTENING DEVICE
George Loop Moore and James Robert Steele, Owego, N. Y.
Application October 20, 1937, Serial No. 169,950
1 Claim. (Cl. 85—1)



A fastening device comprising a preformed bolt having a bowed resilient shank, and a head and nut whose gripping faces each are disposed substantially at right angles to the bolt axis nearest it and obliquely disposed relative to each other.

2,171,164
SPARK PLUG
Hector Rabezzana, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application June 6, 1938, Serial No. 211,998
10 Claims. (Cl. 123—169)



1. In a spark plug of the class described, a hollow metallic shell or casing which is externally threaded to screw into a threaded opening in an engine cylinder, and the upper end of which is internally threaded; an insulating member within said shell and having upper and lower shoulders spaced apart from one another, and the upper end of which insulating member extends above said shell; a ledge within said shell whereby said insulating member is supported; an externally threaded annular sleeve within the upper internally threaded part of said shell; an annular holding member located between the lower end of said sleeve and the upper shoulder of said insulating member; a tubular metallic shield the lower end of which is threaded and screws into the threaded upper end of said shell; and a lining of insulating material within said shield and surrounding the upper end of said insulating member.

2,171,165
SHIELDED SPARK PLUG
Hector Rabezzana, Flint, Mich., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application December 27, 1938, Serial No. 247,741
4 Claims. (Cl. 123—169)



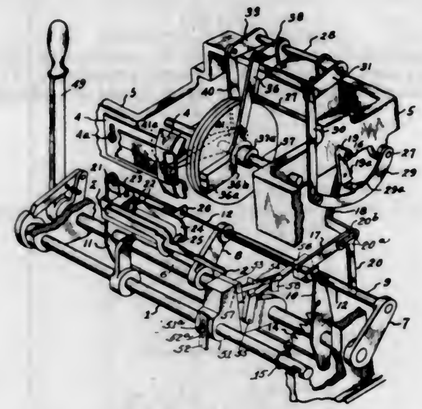
1. Spark plug shielding means comprising a hollow metallic shield tubular in form and open at its upper end, and having a circumferentially extending groove located adjacent said upper end; an insulating member supported upon the upper end of said shield and having a depending annular skirt part which surrounds the upper end of a spark plug within said shield, and the upper end of which member has a tubular nipple arranged at an angle to the axis of said shield; and a metallic shell member overlying the upper end of said insulating member and secured in place thereupon by lugs of said shell which are bent into engagement with said insulating member, and which shell member has also resilient lugs depending therefrom and lower ends of which engage within the groove aforesaid of said shield.

2,171,166
CONDENSATION PRODUCT FROM P-DICHLORBENZOL AND SULPHURIC ANHYDRIDE AND ITS DERIVATIVES
Willy Seel, Milan, Italy
No Drawing. Application February 27, 1935, Serial No. 8,506. In Germany March 2, 1934
8 Claims. (Cl. 260—457)

1. The process of producing a novel organic compound which comprises reacting p-dichlorobenzene with 30% oleum at a temperature between 15 and 25° C., diluting the reaction mass with cold water and recovering the solid reaction product.

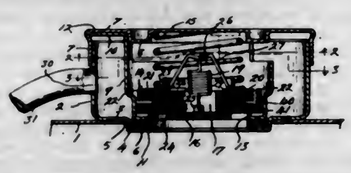
2,171,167
TIME RECORDER MECHANISM
Elmer G. Streckfuss, Cincinnati, Ohio, assignor to The Cincinnati Time Recorder Company, Cincinnati, Ohio, a corporation of Ohio
Application November 20, 1935, Serial No. 50,683
9 Claims. (Cl. 234—43)

3. In a time recorder of the class described having means for making a record and mechanism for changing the character of said record, an operating handle and a card tray and means in connection with the tray to position a card in one of a succession of positions, said card being provided with a row of perforations spaced apart twice the distance of displacement of the card in the tray for successive recordings; a pin, and means for urging it against said card upon operation of said handle, so that it will pass into one of said perforations when the card is so positioned that one of the perforations is in registry with said pin, said pin adapted upon entry into one of said perforations to enable said mechanism to



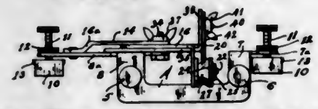
function for the purpose of changing the character of the record.

2,171,168
RADIATOR CAP ASSEMBLY
Arthur L. Swank, Detroit, Mich.; Nellie L. Swank, special administratrix of said Arthur L. Swank, deceased, assignor to Eaton Manufacturing Company, Cleveland, Ohio, a corporation of Ohio
Application July 16, 1934, Serial No. 735,497
4 Claims. (Cl. 220—44)



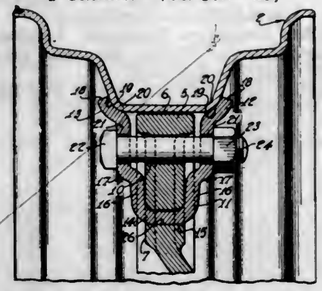
1. In a radiator cap assembly, a filler neck having an inwardly extending annular portion with a depressed portion at the inner periphery thereof, a valve seat located in said depressed portion, vent means for said neck above said annular portion, a cap for closing said neck provided with a depending flange having a screw threaded engagement with the upper portion of said neck, said cap also having an annular depressed portion forming an annular recess outside thereof and a central recess within the same, a valve cage depending from said cap having an outwardly extending flange engaging said annular recess, the lower end of said cage having an inwardly extending flange adapted to engage the seat in the depressed portion of said neck when said cap is fully engaged with said neck but removed from said seat before said cap is disengaged from said neck, a valve in said cage seated on the inwardly extending flange thereof, a spring for yieldably holding said valve to its seat, the upper end of said spring being located in the central recess in said cap, said valve having a central aperture therein, an inwardly opening valve for closing the aperture of the aforesaid valve, and a spring for yieldably holding said inwardly opening valve to its seat.

2,171,169
SAW FILE GUIDE
Elias L. Woodbury, Salt Lake City, Utah, assignor of forty per cent to Hugh B. Sprague and forty per cent to Clarence I. Justheim, both of Salt Lake City, Utah
Application January 18, 1937, Serial No. 121,050
2 Claims. (Cl. 76—36)



1. A saw filing guide consisting of a saw blade engaging body having spaced horizontal ends connected at their adjacent ends by U-shaped depending sides adapted to straddle a saw, means for securing said body onto a saw, a plate pivotally mounted at one end on the top side of one of said body ends for angular adjustment in relation to said body, the opposite end of said plate being bifurcated and depending to provide depending bifurcated legs, horizontally spaced forwardly extending stub shafts secured to said depending legs, rollers mounted for rotation on said stub shafts, said rollers having grooves in their peripheries to provide a guide for a file, depth gauge channel members adjustably mounted for vertical adjustment at the ends of said body horizontal ends, an index, means for mounting said index on said body for vertical adjustment, and for adjustment longitudinally of the body.

2,171,170
WHEEL STRUCTURE
Rudolph H. Beckman, Davenport, Iowa, assignor to French & Hecht, Incorporated, a corporation of Iowa
Application October 23, 1937, Serial No. 170,573
4 Claims. (Cl. 301—11)

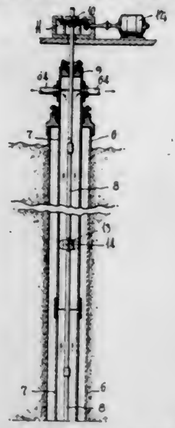


1. In a wheel structure, the combination of a demountable rim, a wheel body, a plurality of bearing surfaces formed in the wheel body at spaced intervals circumferentially thereof, a plurality of rim securing means in the form of U-shaped members each supported on one of said bearing surfaces and presenting opposed arms which extend radially on axially opposite sides of the wheel body beyond the periphery thereof and engage the opposite side edges of the rim, and a fastening bolt extending through openings in the arm for drawing them into clamping engagement with the rim to secure the rim to the wheel body.

2,171,171
WELL PUMP
Walter Brauer, Oklahoma City, Okla.
Application June 9, 1938, Serial No. 212,843
12 Claims. (Cl. 103—155)

1. A deep well pump comprising a tubular cyl-

inder having upper and lower bores arranged in pairs parallel to its axis and each pair consisting of a combined upper and lower bore, a combination intake and discharge valve structure intersecting each combined upper and lower bore and having ports communicating with the bores of the pair with which it is associated, rotatable



driving means extending through the cylinder and having upper and lower rings arranged at angles to the axis of the cylinder and at angles to each other, reciprocating plungers operating in the bores, and connecting means at the outer ends of the plungers operatively connected to said rings for causing reciprocation of the plungers due to rotation of the driving means.

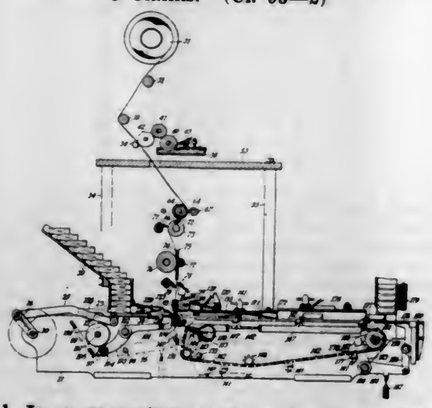
2,171,172

WRAPPING MACHINE

John Walker Chalmers, Deptford, London, England, assignor to Molins Machine Company, Limited, London, England

Application May 5, 1937, Serial No. 140,977

8 Claims. (Cl. 93—2)



1. In a wrapping machine the combination with mechanism to fold a wrapper blank into a tube about an article, said tube having overlapping edge portions to form a seam, of a device movable into and out of engagement with one of said edge portions to apply adhesive thereto to secure the seam, and a support movable relatively to and in timed relationship with said device to support that edge portion to which adhesive is applied whilst the adhesive is being applied and to hold the edge portion away from the article.

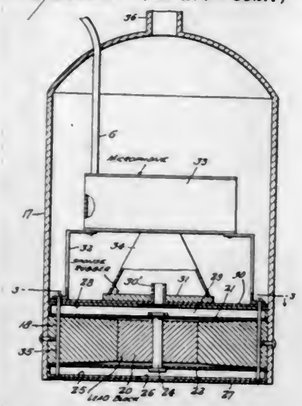
2,171,173

SOUND PICK-UP UNIT

Francis J. Coyer, Oswego, N. Y., assignor of forty per cent to Frederick C. Coyer, Oswego, N. Y.

Application December 11, 1936, Serial No. 115,399

2 Claims. (Cl. 177—352.7)



1. In a device of the class described, a shell having its bottom open, a plate extending across the bottom, a vibratory block located in the shell above the plate, diaphragms extending across the upper and lower faces of the block and having their major portions spaced therefrom, a bolt connecting the block with the diaphragm, upper and lower cup-shaped members forming air chambers above and below the diaphragms, each cup-shaped member having a centrally arranged opening therein, a thin plate resting on the upper cup-shaped member and having a tubular part in communication with the upper cup-shaped member through the opening therein, a resilient member seated on the plate and surrounding the tubular part, brackets resting on the upper plate, screws connecting the brackets, the plates, the cup-shaped members, the diaphragms and the block together, a microphone supported by the brackets and a funnel having its large lower end resting on the resilient member and its small end engaging the microphone.

2,171,174

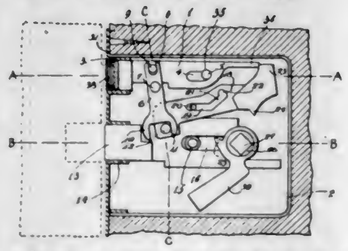
LATCH

Frederick William Edward Deverell, Wellington, Wellington, New Zealand, assignor to Spiral Locks Limited, Wellington, Wellington, New Zealand, a company of New Zealand

Application November 25, 1938, Serial No. 242,400

In New Zealand December 23, 1937

11 Claims. (Cl. 292—185)



1. In a latch, a member adapted to be retired upon striking a face on the door-way, a latch bolt adapted to be initially projected upon the retirement of the said member, means connecting the member to the latch bolt so that the partial projection of the latch bolt will take place upon the retirement of said member, and means adapted to be brought to an operative position by the partial forward projection of the latch bolt to cause the final projection of said latch bolt.

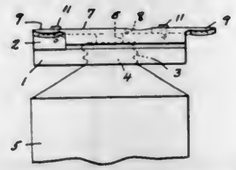
2,171,175

COLLAPSIBLE TUBE CLOSURE

Paul Martin Grafe, Livingston, N. J.

Application October 31, 1938, Serial No. 238,023

3 Claims. (Cl. 221—60)



1. A closure of the class described comprising a plate adapted to be threadedly mounted on a container and having a discharge passage therein for communication with the container, said plate including a top of substantially arcuate cross section, a valve of substantially arcuate cross section slidably mounted on the plate and having a port therein for communication with the discharge passage, said valve further having slots therein, headed elements mounted on the plate and engaged in the slots for slidably securing the valve on the plate and for limiting the movement of said valve in opposite directions on said plate, and integral operating handles projecting from opposite ends of the valve.

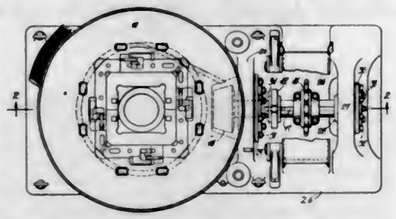
2,171,176

OIL BATH ROTARY

Edgar E. Greve, Dallas, Tex., assignor to Oil Well Supply Company, Dallas, Tex., a corporation of New Jersey

Application April 11, 1935, Serial No. 15,779

3 Claims. (Cl. 255—23)



1. In a rotary machine of the type used in drilling oil wells, the combination of: a base; a rotary table rotatably supported on said base; a pinion shaft; means whereby said pinion shaft rotates said rotary table; a cylindrical housing supported by said base; a bearing for rotatably supporting said pinion shaft; and a bearing retainer supported inside said cylindrical housing, said bearing retainer inclosing said bearing, said bearing retainer providing a lubricant chamber for said bearing, and said bearing retainer comprising two parts adapted to be secured together around said bearing after said bearing has been secured on said pinion shaft.

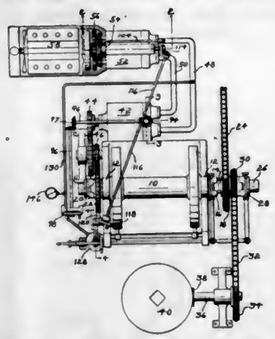
2,171,177

POWER TRANSMISSION

Frederick S. Hodgman, Glen Rock, N. J., assignor, by mesne assignments, to The Waterbury Tool Company, Waterbury, Conn., a corporation of Connecticut

Application August 25, 1936, Serial No. 97,791

7 Claims. (Cl. 255—19)



1. In a well drilling rig the combination of a drill string, a draw-works drum, a prime mover, a variable speed power transmission including a variable displacement pump and a fluid motor operable thereby connected in driving relation between the prime mover and the draw-works drum, a controlling member responsive to variations in fluid pressure produced by changes in torque imposed on the drum by the drill string, means whereby said controlling member may vary the speed ratio of the power transmission, and means including a restricted, adjustable by-pass from the high to the low side of said transmission for varying the weight supportable from said draw-works drum.

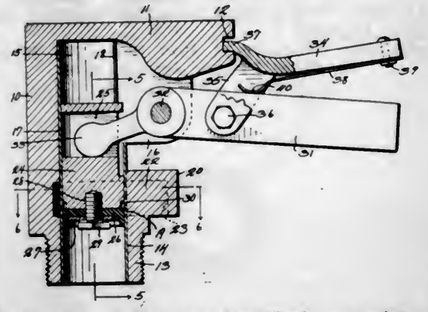
2,171,178

DERAILMENT ACTUATED BRAKE APPLYING MEANS FOR PONY AND ENGINE TRUCKS

Harley S. Johnson, Erwin, Tenn., and Robert Joseph Adams, Ashland, Ky.

Application October 20, 1936, Serial No. 106,630

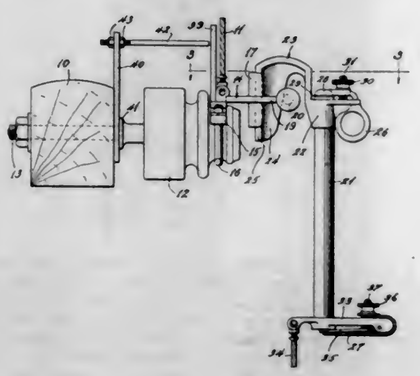
4 Claims. (Cl. 251—26)



1. A valve of the type described, comprising a valve casing having a cylindrical body and a laterally extending flange at its upper end, the upper end of the cylindrical body having an opening to the outer air beneath said flange, the valve casing having a lateral extension below said opening formed to provide an inwardly opening chamber having downwardly opening discharge ports opening upon the outside of the casing, a sleeve disposed within the lower portion of the valve casing and having a plurality of small ports

opening into said chamber, and a piston valve operating within the sleeve and having a cup attached to its lower end and fitting said sleeve.

2,171,179
FUSE ASSEMBLY
Tomlinson Fort Johnson, Atlanta, Ga.
Application July 22, 1937, Serial No. 155,111
9 Claims. (Cl. 200—115)



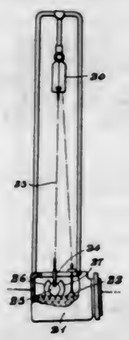
1. In a fuse assembly of the class described, a horizontal metal stirrup having a vertical contact face and a horizontal cross bar spaced therefrom providing a fuse support; and a vertical fuse unit suspended from said stirrup having a self-tightening, wedge shaped contact member inserted through the upper side of the stirrup and removably engaged between the contact face and the cross bar.

2,171,180
LEAD ALLOY
Brinley Jones, Perivale, England, assignor to Goodlass Wall & Lead Industries Limited, London, England
Application February 24, 1937, Serial No. 127,470
In Great Britain June 4, 1936
7 Claims. (Cl. 207—10)



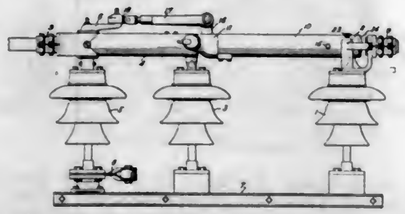
1. A method of manufacturing an extruded product, which comprises alloying lead with a proportion of from 0.02 to 0.25% of tellurium and from 0.03 to 0.1% of copper, and submitting the alloy to extrusion at temperatures equal to those customarily employed for extruding ordinary soft lead to obtain a product which has a fine grain structure throughout despite the high extrusion temperature.

2,171,181
METAL FEEDING APPARATUS
Cornelius Jordan and Edward J. Hubelmeyer, Little Ferry, N. J., assignors to United American Metals Corporation, Brooklyn, N. Y., a corporation of New York
Application January 5, 1939, Serial No. 249,486
5 Claims. (Cl. 22—80)



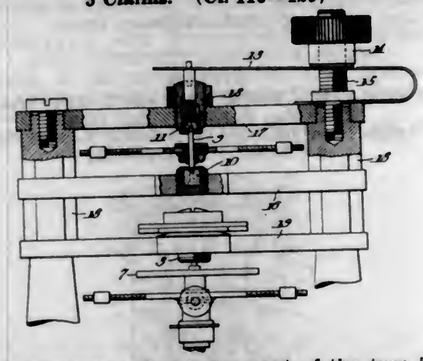
1. The combination with an automatic type metal ingot feeder of a hook adapted to lower slotted eared slip-off ingots into a melting pot, said hook comprising a lower ingot ear engaging portion, said hook portion having a section including an upper ridge adapted to extend within the slotted upper end of the ingot, said section having sides adjacent said ridge which are at an angle with the horizontal that is greater than the angle of repose of the combination of the ingot ear on the hook, whereby slipping off of both sides of a slotted eared ingot associated with said hook is assured when said ingot has been lowered within the melting pot to a level above the lowest point of said ear.

2,171,182
DISCONNECTING SWITCH
Carl G. Koppitz, Greensburg, Pa., assignor, by mesne assignments, to Railway & Industrial Engineering Company, Greensburg, Pa., a corporation of Delaware
Application August 5, 1937, Serial No. 157,606
15 Claims. (Cl. 200—48)



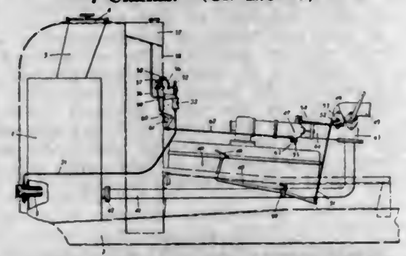
1. A disconnecting switch comprising a jaw element, a contact blade, means supporting said blade for movement to carry one end thereof into the jaw element, said end of the blade being of closed tubular form and provided with opposed contact portions for engagement with the jaw element, and operating means for moving said blade to position the contact portions within the jaw element and thereafter to spread said contact portions into engagement with the jaw element.

2,171,183
MAXIMUM DEMAND INDICATOR
Francis X. Lamb, East Orange, N. J., assignor to Weston Electrical Instrument Corporation, Newark, N. J., a corporation of New Jersey
Application February 14, 1936, Serial No. 63,970
5 Claims. (Cl. 116—129)



1. In a measuring instrument of the type including a moving system having an indicating member; a maximum demand indicating arm, means including cooperating surfaces having a low coefficient of friction supporting said indicating arm for movement by said indicating member, and means forcing said cooperating surfaces into contact to produce a substantial frictional resistance to movement of said indicator arm.

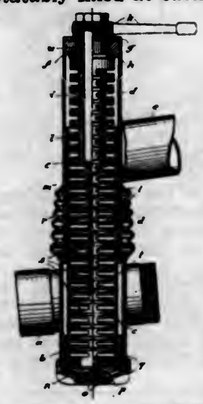
2,171,184
PRODUCER GAS PLANT
James Alexander Macdonald, London, England
Application October 6, 1937, Serial No. 167,646
In Great Britain October 22, 1936
7 Claims. (Cl. 123—3)



1. A power plant comprising a gas producer, a gas engine, means for causing a disproportionate variation in the ratio of water to air supplied to the engine, whilst the engine is adjusting itself to a change in power demand and means for thereafter maintaining the ratio of water to air at a value appropriate to the new demand.

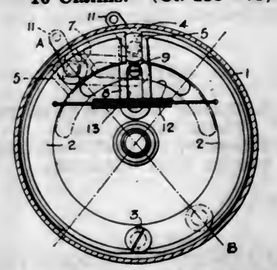
2,171,185
LONGITUDINAL SPRING FOR TELESCOPIC TUBULAR GUIDES
Friedrich Eugen Maier, Berlin-Charlottenburg, Germany
Application December 16, 1936, Serial No. 116,213
In Germany December 18, 1935
14 Claims. (Cl. 267—61)

1. A rectilinear guide resiliently yieldable axially but fixed against lateral and torsional movement comprising a pair of sleeve-like members having interfitting telescopically movable cylindrical portions extending axially of the guide for resisting lateral movement between said members, a spring flexible longitudinally and fixed against torsion between its ends intercalated between said members, the extent of the longitudinal flexibility of said spring substantially corresponding to the intended extent of telescopic movement between said members, said spring being non-rotatably fixed at each of its ends to



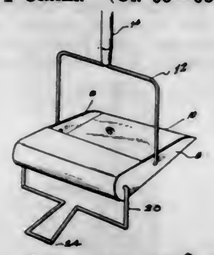
one of said members respectively, whereby lateral bending of the guide is prevented by the engagement of the telescopic portions of said members, and torsional movement between the ends of the guide is prevented by the spring and its connection with said members, but resilient longitudinal movement between the ends of said guide is permitted by the resilient yielding of the spring and the telescopic arrangement of the sleeve-like members.

2,171,186
EXPANDING SHOE MECHANISM
Harold Bertram Mead, Ilford, England
Application June 2, 1938, Serial No. 211,429
In Great Britain June 3, 1937
10 Claims. (Cl. 188—78)



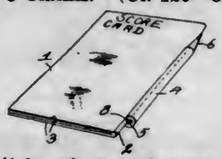
1. An expanding shoe mechanism comprising a drum, a plurality of shoes movably mounted on a floating base member and disposed inside the drum for frictional engagement therewith, a cam rotatably mounted on the base member for expanding the shoes, an anchor plate on which the floating base member is mounted to rock around the axis of the brake against the spring resistance, an auxiliary cam for increasing the expansion of the shoes, and a link pivoted on the anchor plate by a pin-and-slot connection, the pin passing through an arcuate slot in the floating plate, said link carrying the auxiliary cam, whereby angular displacement between the floating base member and the anchor plate rocks the link about its pivotal connection and turns the auxiliary cam.

2,171,187
DUSTPAN
Clincie W. Milliner, Norfolk, Va.
Application June 11, 1937, Serial No. 147,760
1 Claim. (Cl. 65—63)



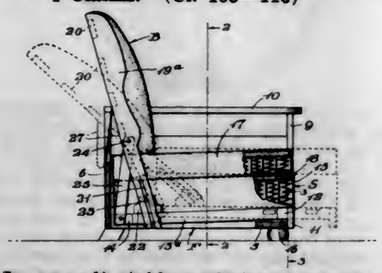
A dust pan of the class described having upstanding side portions, a substantially U-shaped tread lever having its free ends bent inwardly at right angles to the legs thereof and being pivotally connected in the sides centrally and adjacent the rear portions thereof, the bight portion of said U-shaped tread lever being bent at its central portion thereof outwardly substantially at a right angle to the legs into a substantially U-shaped formation defining a foot lever.

2,171,188
BINDING DEVICE AND PENCIL SUPPORT
Charles E. Morris, Newport News, Va.
Application September 7, 1938, Serial No. 228,855
3 Claims. (Cl. 120—83)



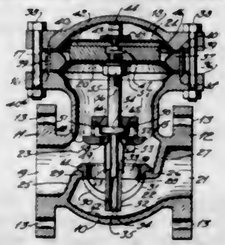
3. An article of manufacture comprising a pencil having a channel extending longitudinally through one side thereof, the mouth of said channel being restricted in width relative to the widths of intermediate sections of the channel.

2,171,189
CHAIR
Charlie E. Platter and Orval R. Platter, North Vernon, Ind.
Application December 31, 1937, Serial No. 182,889
4 Claims. (Cl. 155—116)



1. In an adjustable reclining chair, a main stationary supporting frame, a seat and a frame for said seat supported at its front extremity for free forward and rearward movement in a substantially horizontal plane on said main frame, a back rest and a frame for said rest pivotally hung at an intermediate point to said main frame and at its lower extremity having a slidable pivotal connection to said seat frame and whereby when a pivotal adjusting movement is imparted to the back rest the seat frame is moved forwardly or rearwardly without substantially affecting its horizontal position, and means pivotally suspending the rear extremity of said seat frame from said main stationary frame.

2,171,190
AUTOMATIC CHECK AND SHUT-OFF VALVE
John Ray Polston, Tulsa, Okla.
Application June 30, 1937, Serial No. 151,267
6 Claims. (Cl. 137—153)



1. A combined check and shut-off valve including a housing having a dual valve structure for automatically controlling the flow through said housing, said dual valve structure comprising a main flow opening, a main valve seat in said opening, a floating main valve cooperating with said seat, an auxiliary flow opening in said main valve, an auxiliary valve seat in said auxiliary flow opening, an auxiliary valve cooperating with said auxiliary valve seat, means operatively connecting said auxiliary valve to said main valve, said means permitting limited independent movement of said auxiliary valve with respect to said main valve, a valve stem fixed to said auxiliary valve, a diaphragm unit operatively connected to said valve stem, one side of said unit being in communication with the inlet side of said main valve, whereby so long as there is an overbalancing pressure on said inlet side, the operation of said valves will be controlled by the inlet pressure, and the other side of said unit being in direct communication with the outlet side of said main valve, whereby a back pressure on said outlet side will maintain said valves in closed position.

2,171,191
WINDSHIELD FRAME STRUCTURE
Albert T. Potter, Detroit, Mich., assignor to Ainsworth Manufacturing Company, Detroit, Mich., a corporation of Michigan
Application March 11, 1938, Serial No. 195,357
17 Claims. (Cl. 296—84)



1. In combination, an automobile body panel having a windshield opening, means on the panel providing an inwardly directed shoulder at the front side of the opening, a windshield frame disposed in said opening and comprising a frame member having in transverse cross section a channel portion for receiving the edge of the windshield, a flange portion extending rearwardly from the edge of the rear leg of the channel, and a flange portion extending forwardly from the front leg of the channel, a rubber sealing strip extending around the second flange and disposed partly between the channel and shoulder, and means fastening the first flange to the panel.

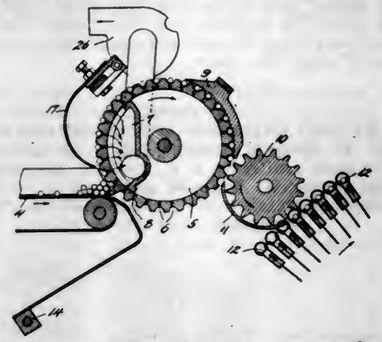
2,171,192
APPARATUS FOR DISCONNECTING PUMPING APPARATUS FROM A BEAM
Bennett H. Ravanelli, Greggton, Tex., assignor to Oil Well Supply Company, Dallas, Tex., a corporation of New Jersey
Application November 17, 1937, Serial No. 175,155
4 Claims. (Cl. 74—593)



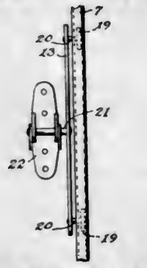
1. In well pumping apparatus including a walking beam and a pump rod vertically sustained from the end of said walking beam, means to detachably secure the said pump rod to said walking beam, said means comprising a hook member dependingly secured to the end of said walking beam, a ball member pivotally secured on the end of said pump rod and engaging said hook member to dependingly sustain the pump rod therefrom, and means to release the said ball member from the said hook member and to sustain said pump rod in its released position, said means comprising a stop member on said pump rod and a removable support for said pump rod, the said support being adapted to be inserted between the casing head through which the said pump rod reciprocates and the walking beam in a position relative to the said stop member to interrupt the downward movement of the pump rod before the expiration of said movement and to sustain the said pump rod in said interrupted position and means to pivotally swing said bail out of said hook member while the said hook member is completing its downward movement.

2,171,193
CONVEYER FOR FEEDING ARTICLES
Félix Fréderic Ruau, London, England, assignor to Molins Machine Company, Limited, London, England
Application October 19, 1936, Serial No. 106,486
In Great Britain November 1, 1935
6 Claims. (Cl. 198—25)

1. Apparatus for feeding articles comprising in combination a support for the articles, said support comprising a movable surface, a rotatable drum having flutes parallel with the axis of rotation of the drum to receive articles, a source of suction connected with said flutes, the axis of rotation of said drum being arranged in a plane above that of the supporting surface so that the periphery of the drum is spaced apart from the supporting surface, and a stationary member disposed between the drum and the supporting surface and in the path of the articles on the supporting surface whereby relative movement between the supporting surface and the stationary member causes agitation of the articles on the supporting surface to facilitate their removal therefrom by said suction.

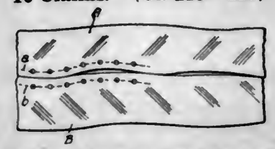


2,171,194
OVERHEAD DOOR STRUCTURE
Guy V. Smith, Marion, Ind.
Application July 12, 1938, Serial No. 218,856
1 Claim. (Cl. 16—104)



A combined hinge bracket and roller carrier for sectional sliding doors, comprising a plate movable endwise with the door and having axle pins at one side and at opposite ends, rollers mounted on the axle pins, and a hinge pintle pin projecting between the ends of the plate from the side thereof opposite the rollers.

2,171,195
METHOD OF JOINING THE EDGES OF METAL BANDS OR THE LIKE
August Erland Sonesson, Sandviken, Sweden
Application March 3, 1936, Serial No. 66,964
In Sweden March 6, 1935
16 Claims. (Cl. 113—116)



1. A method of shaping the edges of two pieces of material such as bands, plates and the like for substantially exact matching which comprises

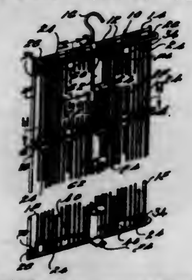
placing the pieces with the two edges that are to be matched adjacent each other and in approximately parallel relation, forming a row of spaced guide means in each of said edges simultaneously and with the said rows uniformly spaced from each other, and employing the guide means of each piece as a guide for reshaping the edge thereof to render it precisely complemental to the other of said two edges.

2,171,196

FRANKFURTER-FORMING APPARATUS

Frank W. Trabold, Detroit, Mich.; Detroit Trust Company and Irma J. F. Trabold, executors of said Frank W. Trabold, deceased

Application October 31, 1938, Serial No. 237,823
4 Claims. (Cl. 17—34)



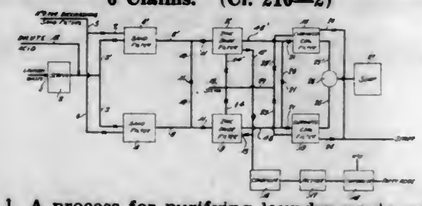
1. An apparatus for processing frankfurter sausages and the like, comprising an openwork frame member adapted to receive an elongated strip of frankfurter sausage, a plurality of transversely extending partition members on said frame member at spaced intervals therealong, a cooperating openwork frame member adapted to overlie said first named frame member against said strip, and clamping means adapted to engage the ends of said strip, said clamping means including transversely extending plate members mounted on one of said frame members adjacent the ends thereof, said plate members having transversely extending, inwardly directed flanges along the outer edges thereof, and other transversely extending plate members on the other of said frame members positioned to cooperate with said first named plate members with the outer edge of said other plate members lying closely adjacent to its respective flange.

2,171,197

PROCESS FOR PURIFICATION OF LAUNDRY WASTE

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

Application February 13, 1937, Serial No. 125,665
6 Claims. (Cl. 210—2)



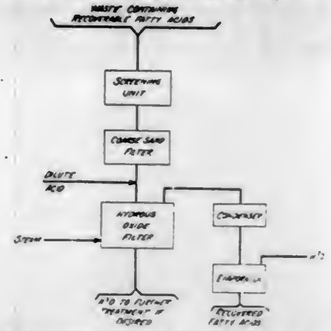
1. A process for purifying laundry waste comprising initially removing suspended solids from the waste, effecting hydrolysis of the soap solution, passing the solution through a filter charged with zinc oxide to remove through chemical reaction the fatty acids freed by the hydrolysis, and then passing the fatty acid free solution through a chlorinated coal filter to effect removal of remaining organic matter therefrom.

2,171,198

METHOD OF RECOVERING FATTY ACIDS

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

Application February 13, 1937, Serial No. 125,666
5 Claims. (Cl. 260—412)



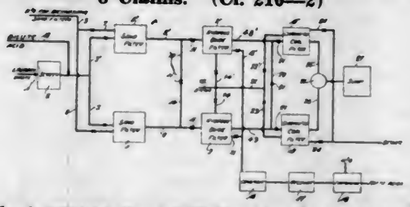
1. In a process for the recovery of fatty acids from solutions containing the same, the step comprising effecting chemical removal of the fatty acids by passing the solution through a filter charged with zinc oxide and thereafter effecting recovery of said fatty acids by treatment of the zinc oxide filter.

2,171,199

PROCESS FOR PURIFICATION OF LAUNDRY WASTE

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

Application February 13, 1937, Serial No. 125,667
8 Claims. (Cl. 210—2)



1. A process for purifying laundry waste comprising initially removing suspended solids from the waste, effecting hydrolysis of the soap solution, passing the solution through a filter charged with an hydrous oxide at or below its isoelectric point to remove through chemical reaction the fatty acids freed by the hydrolysis, and then passing the fatty acid free solution through a chlorinated coal filter to effect removal of remaining organic matter therefrom.

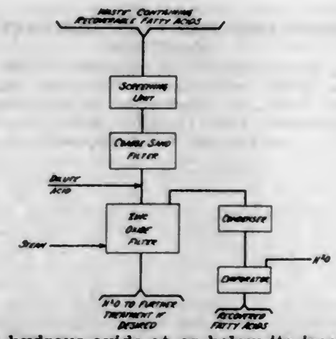
2,171,200

METHOD OF RECOVERING FATTY ACIDS

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

Application February 13, 1937, Serial No. 125,668
7 Claims. (Cl. 260—412)

1. In a process for recovering fatty acids from solutions containing the same, the steps comprising effecting chemical removal of the fatty acids by passing such solutions through a filter charged



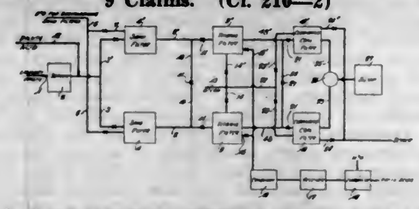
with an hydrous oxide at or below its isoelectric point and thereafter effecting recovery of said fatty acids by treatment of the hydrous oxide filter.

2,171,201

PROCESS FOR PURIFICATION OF LAUNDRY WASTE

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

Application February 13, 1937, Serial No. 125,669
9 Claims. (Cl. 210—2)



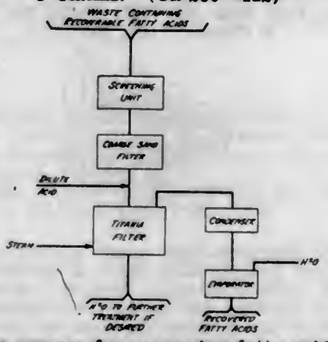
1. A process for purifying laundry waste comprising initially removing suspended solids from the waste, effecting hydrolysis of the soap solution, passing the solution through a filter charged with titania (TiO_2) to chemically remove the fatty acids freed by the hydrolysis, and thence passing the fatty acid free solution through a further filter effective to remove the remaining organic matter therefrom.

2,171,202

METHOD OF RECOVERING FATTY ACIDS

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

Application February 13, 1937, Serial No. 125,670
8 Claims. (Cl. 260—412)



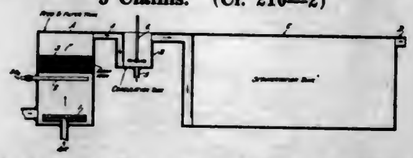
1. In a process for recovering fatty acids from solutions containing the same, the steps comprising effecting chemical removal of fatty acids by passing such solution through a filter containing a substantial quantity of titania (TiO_2) and thereafter effecting recovery of said fatty acids by treatment of the titania filter.

2,171,203

PROCESS FOR THE PURIFICATION OF ORGANICALLY POLLUTED WATER

Oliver M. Urbain and William R. Stemen, Columbus, Ohio, assignors to Charles H. Lewis, Harpster, Ohio

Application February 24, 1937, Serial No. 127,491
5 Claims. (Cl. 210—2)



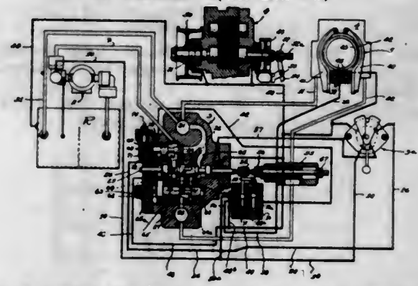
1. A process for the purification of organically polluted liquid comprising passing the liquid through a bed of scrap iron, introducing sulfur dioxide and diffused air to pass simultaneously with the liquid through the bed of iron, forming iron sulfates in situ, and thereafter treating the resultant liquid with hydrated lime and passing the treated liquid to a settling zone.

2,171,204

HYDRAULIC HOISTING UNIT AND CONTROL SYSTEM THEREFOR

Harry F. Vickers, Detroit, Mich., assignor to Vickers, Incorporated, Detroit, Mich., a corporation of Michigan

Original application September 22, 1933, Serial No. 690,630. Divided and this application December 15, 1934, Serial No. 757,619
18 Claims. (Cl. 192—3)



1. A hydraulic actuating system comprising a source of pressure supply including a relatively large volume pump and a relatively small volume pump, a main hydraulically operated unit actuated by both pumps, and an auxiliary hydraulically operated unit cooperating with said first named unit and actuated solely by said small pump.

2,171,205

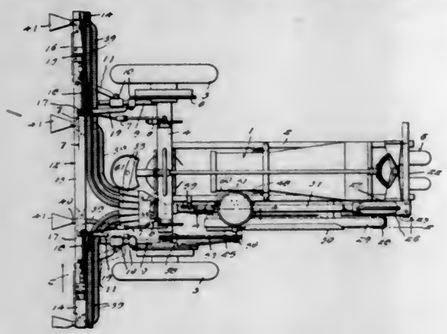
POWDER DISTRIBUTING ATTACHMENT FOR TRACTORS

Louis A. Zinke, De Witt County, Tex.

Application August 26, 1937, Serial No. 161,111
2 Claims. (Cl. 43—148)

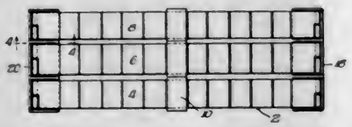
1. In a poison powder distributor, a wheeled carrier, a plurality of powder distributing nozzles, means for supporting said nozzles in a trans-

versely extending series relative to the carrier and at the rear of the latter, an air and powder distributing casing of substantially triangular form having an inlet opening at an apex of the triangle and directed forwardly with respect to the carrier, a series of outlets for the casing equal in number to the nozzles and arranged in a line perpendicular to the line of flow of material through the inlet, distributing tubes leading from said outlets to said nozzles, means for forcing powder and air under pressure into the casing



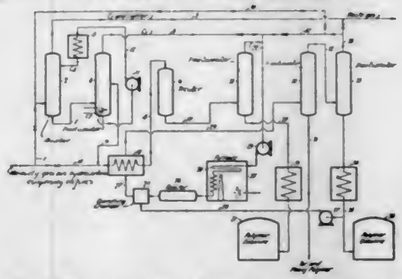
through the inlet opening, a central division wall in said distributing casing having an end directed toward but spaced from the inlet opening, a plurality of blades extending obliquely from said wall in the direction of the outlets to deflect incoming air and powder to the two sides of the wall, and triangular division units disposed at the sides of said partition wall each in straddling relation to an outlet opening and spaced from the top and bottom of the casing to equalize the distribution of air and powder to the outlet openings immediately adjacent thereto.

2,171,206
ELLIPTIC SPRING
Walter H. Baselt, Chicago, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application May 20, 1938, Serial No. 208,970
12 Claims. (Cl. 267—55)



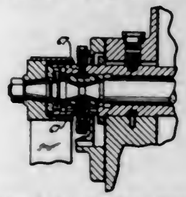
1. In a full elliptic spring, top and bottom semi-elliptic units formed of a plurality of leaves of varying length with central securing bands, end castings having outer walls and central diverging walls forming seating means for certain of said leaves of said units, transverse slots in said casting between said outer walls and said diverging walls, the longest leaves of said units having in-turned lips extending part way across the width thereof and received in said slots in overlapping relationship, said long leaves having abutment with said diverging walls adjacent the outer edges thereof when said spring is free of loading and having abutment adjacent the inner edges thereof when said spring is under heavy loading, said overlapping lips providing substantial abutment against said walls under said heavy loading condition.

2,171,207
PROCESS FOR THE POLYMERIZATION OF OLEFINS
Arthur Hallam Boultbee, Martinez, Calif., assignor to Shell Development Company, San Francisco, Calif., a corporation of Delaware
Application June 19, 1936, Serial No. 86,122
6 Claims. (Cl. 196—10)



1. In the process of polymerizing normally gaseous hydrocarbons of the type produced in cracking, comprising tertiary base and non-tertiary base olefins to produce gasoline-type motor fuel, the steps of fractionating said hydrocarbons in a fractionating zone to produce a light fraction consisting essentially of ethane and lighter gases, a middle fraction consisting essentially of propane and propylene, and a heavy fraction substantially free from propane and lighter hydrocarbons comprising tertiary base and non-tertiary base olefins, contacting said heavy fraction with a polymerization catalyst capable of converting normally gaseous olefins to gasoline-type hydrocarbons, at an elevated temperature under conditions to polymerize predominantly the tertiary base olefins while only partially polymerizing the less reactive non-tertiary base olefins, thereby producing a polymer, separating the polymer from the unreacted olefins containing fraction, combining the latter with the said middle fraction, subjecting the resulting mixture to a thermal non-catalytic polymerization at a thermal polymerization temperature to produce additional polymers, separating same from residual gaseous hydrocarbons, and returning the latter to the said fractionating zone.

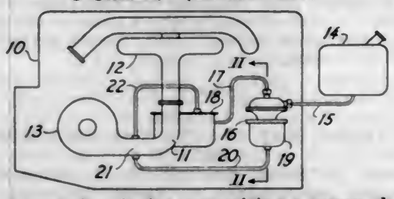
2,171,208
HIGH SPEED SPINDLE CONSTRUCTION
Albert H. Dall, Silverton, and Frederick S. Haas, Cincinnati, Ohio, assignors to Cincinnati Grinders Incorporated, Cincinnati, Ohio, a corporation of Ohio
Application June 23, 1937, Serial No. 149,854
5 Claims. (Cl. 308—73)



1. In precision high speed spindle construction, the combination with a spindle having spaced bearing portions formed thereon, of a support therefor having bearing recesses alignable with the bearing portions on the spindle, a plurality of circumferentially spaced bearing

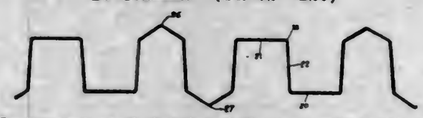
shoes circumscribing the spindle within each of said recesses, said shoes having inner portions corresponding in shape to the bearing portion of the spindle engageable thereby and outer faces supportable for oscillation relative to the circumscribing wall of the bearing receiving recesses, means maintaining said shoes against axial displacement in the recesses, means coupled with said recesses for maintaining the same filled with lubricant under appreciable hydrostatic pressure whereby upon rotation of the spindle wedge-like oil films will be produced intermediate the shoes and bearing portions of the spindle, maintaining the spindle in fixed axial position under varying load conditions, certain of said shoes having inner faces reacting in a direct radial direction against the bearing portions of the spindle for retaining the same against radial movement and other of said shoes, each having individual angularly related portions creating force components reacting against the spindle in opposite balanced angular directions in a radial plane whereby to restrain the spindle against longitudinal movement as well as radial displacement of its axis of rotation.

2,171,209
FUEL PUMP FOR SUPERCHARGED ENGINES
Leon T. Folsom, Berkeley, Calif., assignor to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application February 28, 1938, Serial No. 192,959
3 Claims. (Cl. 123—139)



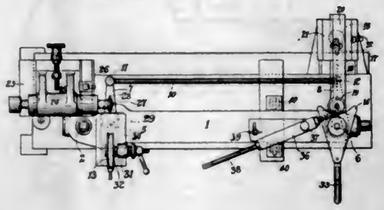
1. A pumping device comprising a pump chamber having a movable wall and resilient means adapted to move said wall to decrease the capacity of said chamber, mechanical means for continuously intermittently urging said wall to increase the capacity of said chamber, means forming a pressure balancing chamber having a movable wall, means positively connecting said wall with the movable wall of said pump chamber to space them an unvarying distance apart, and means adapted to provide an unrestricted passage between said pressure balancing chamber and a source of fluid pressure acting on the discharge of said pump, so constructed and arranged that variations in said fluid pressure will act in a predetermined manner to modify the force exerted by said resilient means upon the movable wall of said pump chamber.

2,171,210
BOARD JOINT REINFORCEMENT
Harry K. Linzell, Ingleside, Ill., assignor to United States Gypsum Company, Chicago, Ill., a corporation of Illinois
Application March 3, 1938, Serial No. 193,690
10 Claims. (Cl. 72—120)



3. In a board joint reinforcement, a zig-zag wire having protruding sections of different lengths, means for hingedly connecting some of said shorter sections to a building board adjacent an edge thereof.

2,171,211
MACHINE FOR GRINDING ARTICLES TO PREDETERMINED FORMS
Charles Day, Stockport, England
Application April 22, 1938, Serial No. 203,566
In Great Britain May 31, 1937
3 Claims. (Cl. 51—100)



2. A grinding machine comprising in combination, a machine bed, a grinding spindle supported thereby, a grinding wheel on the grinding spindle, a swing arm mounted at one end horizontally swingable on the said bed, a vertical hollow spindle rotatably mounted on the swing arm intermediate of the ends of the swing arm, a second vertical spindle mounted on the swing arm at the other end thereof, a pattern plate connected to the second spindle for rotation of the second spindle with the pattern plate, means connecting the two spindles for rotation of the hollow spindle with the second spindle, a vertical mandrel mounted in the hollow spindle, and a gauge disc mounted in the said mandrel.

2,171,212
ELECTRON DISCHARGE DEVICE
Hans Erich Hollmann, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application March 27, 1937, Serial No. 133,316
In Germany April 20, 1936
7 Claims. (Cl. 250—27.5)



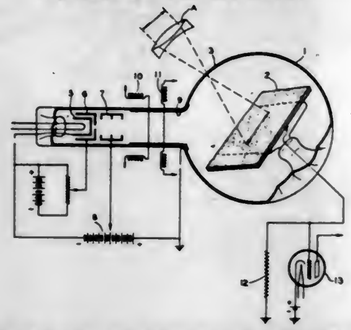
2. An electron discharge device having an evacuated envelope containing a straight cold cathode having flat parallel surfaces coated with material which readily emits secondary electrons, an anode surrounding and parallel to said cathode, means for providing only a constant magnetic field during operation of the device and parallel to and surrounding the cathode, for causing primary electrons to travel in orbits, said orbits originating at a point in a flat surface of said cathode and describing a path intersecting another flat surface of said cathode substantially 180° removed from said point and with sufficient velocity to produce secondary electrons.

2,171,213

TELEVISION TRANSMITTING TUBE AND ELECTRODE STRUCTURE

Robert B. Janes, Rutherford, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application November 30, 1937, Serial No. 177,195
9 Claims. (Cl. 250—27.5)



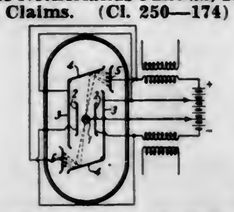
1. A cathode ray television transmitting tube comprising an envelope having a transparent window, an electrode assembly including a non-conducting base exposed to said window, an intermediate thin layer of an electrically insulating higher oxide than the monoxide of a metal selected from the group consisting of manganese, tin, vanadium and chromium as a continuous coating on one side of said base, a multiplicity of discrete photosensitive particles each of minute size on said intermediate thin layer, and an electrically conducting material on the opposite side of said non-conducting base.

2,171,214

SECONDARY ELECTRON EMITTING SCREEN TUBE

Johan Lodewijk Hendrik Jonker, Edmund H. Löpp, and Adrianus J. W. M. van Overbeek, Eindhoven, Netherlands, assignors to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application June 22, 1937, Serial No. 149,581
In the Netherlands June 22, 1936
3 Claims. (Cl. 250—174)



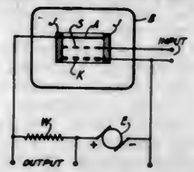
1. An electron discharge device comprising a cathode, an accelerating electrode comprising an elongated sheet metal strip bent transversely of its surface to form two portions at an angle to each other and mounted with one portion adjacent said cathode and alongside the path of discharge from said cathode and the other portion extending across the path of said discharge, the surface of said other portion facing said cathode having high secondary electron emissivity, an anode adjacent said other portion of said accelerating electrode, and means for focusing the discharge from said cathode to said anode into an electron stream which impinges on said other portion of said accelerating electrode.

2,171,215

GASEOUS DISCHARGE TUBE

Alfons Kauffeldt, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application June 12, 1937, Serial No. 147,852
In Germany July 4, 1936
4 Claims. (Cl. 250—27.5)



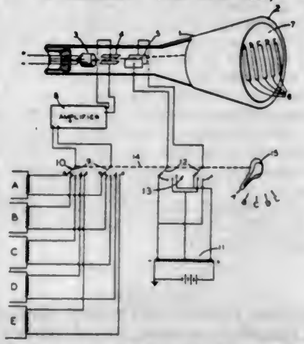
1. An electron discharge device including an envelope having a gaseous atmosphere, electrodes within said envelope having surfaces spaced from each other less than the mean free path of an electron in said gaseous atmosphere, and a control element positioned between said surfaces, insulating means for supporting said electrodes and control element in spaced relationship, said surfaces and said insulating supporting means enclosing a space in which a gaseous discharge cannot take place, said electrodes having surfaces outside of said enclosed space exposed to the gaseous atmosphere within the envelope and spaced apart a distance greater than the mean free path of an electron in the gas for providing an ionizable path between the electrodes on the outside of said space whereby a gaseous discharge may take place between the outside surfaces of said electrodes.

2,171,216

CATHODE RAY ELECTRICAL MEASURING DEVICE

George M. Koch, Summit, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application July 1, 1938, Serial No. 217,104
2 Claims. (Cl. 171—95)



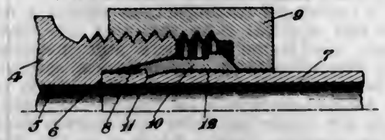
1. A device for measuring a plurality of unknown voltages, comprising a cathode ray tube with a screen light sensitive to electron bombardment and an electron gun for projecting an electron beam on said screen, means for deflecting said beam vertically, means for deflecting said beam horizontally, a switch for selectively applying said unknown voltages to the vertical deflecting means, a direct current voltage source, a second switch mechanically interlocked with the first switch for applying a different and predetermined steady direct current voltage from said source to the horizontal deflecting means for each unknown voltage applied to the vertical deflecting means.

2,171,217

METAL PACKING RING FOR USE WITH SCREWED PIPE JOINTS OR COUPLINGS

Hans Kreidel, Wiesbaden, Germany

Application August 17, 1937, Serial No. 159,448
In Germany November 11, 1936
3 Claims. (Cl. 285—122)



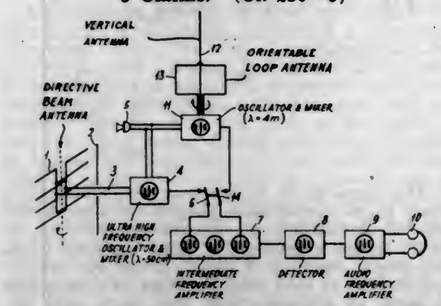
1. A metal packing ring for use with tube couplings of the type described, comprising a body portion of low carbon steel, providing a relatively soft core and affording deformability to the portions of the ring which are to yield and be contracted radially to an inner diameter smaller than the outer diameter of the cooperating tube, said packing ring of low carbon steel having a hardened surface portion to provide cutting edge portions of hard, strong and sharp characteristics so as to readily cut into the surface of a cooperating tube.

2,171,218

ULTRA SHORT WAVE SYSTEM FOR TWO-WAY COMMUNICATION

Walter Kriebel, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany

Application July 6, 1938, Serial No. 217,684
In Germany June 24, 1937
6 Claims. (Cl. 250—9)



2. A system for duplex radio communication comprising radio frequency transmitting and receiving equipment disposed at each of two stations one at least of said stations being a mobile station the position of which is to be determined at the other of said stations prior to the transmission of traffic signals therebetween, each of said stations comprising omni-directional and orientable antennae and a combining circuit connected to said antennae and suitably arranged for obtaining an indication of the direction in which a call-signal initiated by the other station is brought in, each of said stations comprising further an ultra-short wave directive beam antenna and ultra-short wave transmitting and receiving apparatus operatively associated therewith, an intermediate frequency amplifier, switching means for connecting said amplifier alternatively to said ultra-short wave apparatus or to the combining circuit of the other two antennae, and apparatus for deriving an intelligible response from said intermediate frequency amplifier.

2,171,219

HIGH FREQUENCY CONDENSER

Louis Malter, Nutley, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application December 30, 1937, Serial No. 182,403
4 Claims. (Cl. 178—44)



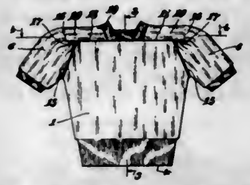
1. A condenser for high frequency current comprising two electrical plates capacitively coupled and a di-electric between said plates, a terminal for each plate, each plate comprising a plurality of leaves, each leaf being conductive on its surface for said high frequency current, the leaves of one electrical plate being disposed between the leaves of the other electrical plate, the plates being so constructed aand arranged that the electrical length of the path of said high frequency current along the registering surfaces of said plates is approximately equal to an odd number of quarter wavelengths of said high frequency current.

2,171,220

SWEATER

Catherine H. Martin, Westport, Conn., assignor to Lord & Taylor, New York, N. Y., a corporation of New York

Application July 7, 1938, Serial No. 217,847
7 Claims. (Cl. 2—90)



1. In an assembled sweater having front, back and shoulder portions, an extension on the shoulder portion which extension in the normal position of the fabric projects outwardly from said front and back portions, and a sleeve member secured to said shoulder extension and having side edges secured to said front and back portions, whereby in the normal position of the fabric said sleeve member extends downwardly at an angle to the shoulder extension.

2,171,221

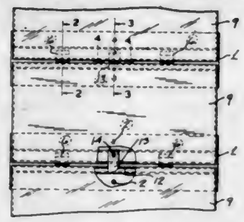
SUPPORTING STRUCTURE FOR PORCELAIN ENAMELED PANS

Albert C. Maus, St. Louis, Mo., assignor to Roesch Porcelain Construction, Inc., Belleville, Ill., a corporation of Illinois

Application March 30, 1939, Serial No. 264,943
3 Claims. (Cl. 189—88)

1. In a device of the character described, a series of sheet metal pans adapted to be ornamentally decorated on one surface thereof, inturned, slotted side edges on said pans, a series of tracks longitudinally alined with each other, tongues on said tracks for entering slots in one

of the side edges of said pans for supporting said pans, and a swinging latching clip for entering



a slot in another of the side edges of said pans for securely holding said pans in position on said tracks.

2,171,222

PROCESS FOR THE PREPARATION OF SALTS OF CELLULOSE ETHER CARBOXYLIC ACIDS

Georg Meyer, Hanover, Germany

No Drawing. Application February 24, 1938, Serial No. 192,323. In Germany March 1, 1937
1 Claim. (Cl. 260—232)

A process for the preparation of salts of cellulose ether carboxylic acids, which yield with water solutions of increased viscosity, characterised in that the reaction product obtained by the action of a monohalogen fatty acid on alkali cellulose is precipitated with an aluminium compound, the precipitate is freed by washing with water from the salt formed and converted by the addition of equivalent quantities of alkali into a water-soluble salt.

2,171,223

RACKET FOR TENNIS AND BATTING GAMES AND METHOD OF MANUFACTURING SAME

Roy H. Robinson, Chicago, Ill.

Substitute for abandoned application Serial No. 544,361, June 15, 1931. This application December 2, 1937, Serial No. 177,832
52 Claims. (Cl. 273—73)



1. For use in a racket, a string guide of non-metallic material for insertion in the stringing holes of the racket frame, formed with an enlarged head at one end, said head being seated in a chamfered depression in a side of the frame so as to protect the guide head from abrasive injury, hold same more securely in place, and permit the strings passing from one hole to another on the outside of the racket frame to lie in contact both with the surface of the frame and that of the guide head.

9. A method of manufacturing a racket frame made of tubing, comprising first channeling the tubing inwardly on one side while in its straight or unbent form, next further flattening the tubing by the punching of stringing holes in said channel, next bending the tube to the shape of the racket head and finally flattening the bent tube in a direction at right angles to the direction of the initial flattening so as to force the edge faces back toward each other again.

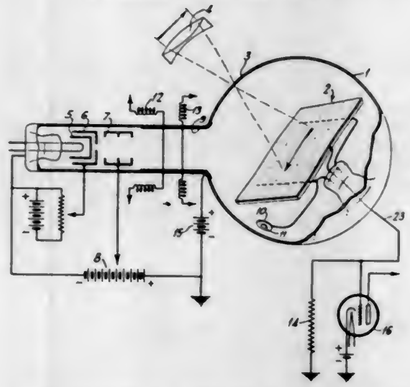
14. A racket for hitting games having a metal frame and a metal strip spanning the opening between the frame members and metallically united thereto to form a bridge piece, said metal strip being provided with extending parts integrally formed therewith for readily clinching the strip to the frame members and thereby holding same in position during brazing or the like to secure metallic union.

2,171,224

CATHODE RAY TUBE

Albert Rose, East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application March 30, 1937, Serial No. 133,857
6 Claims. (Cl. 250—27.5)



1. The process of forming a photoconductive surface on an electrically conductive base which comprises depositing on said base a layer of refractory oxide, exposing the layer to vapor of an alkali metal, depositing alkali metal on the exposed surface of said layer, heating said base and said layer to photosensitize said layer and impregnating said layer with the alkali metal deposited on the surface of said layer by baking said base until said layer shows negligible photoelectric emission and negligible electrostatic storage.

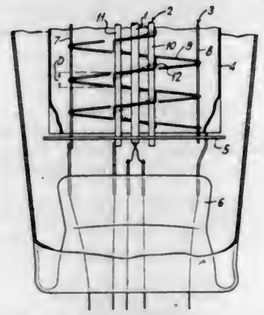
2,171,225

GRID ELECTRODE

Otto H. Schade, West Caldwell, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware

Application November 30, 1937, Serial No. 177,368
2 Claims. (Cl. 250—27.5)

2. A grid electrode comprising two spaced parallel side rods, a grid wire helically wound with spaced turns upon said side rods and each turn of the grid wire being attached to and supported by each side rod, the slope of the grid wire in



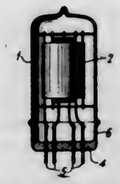
contact with the side rods being greater than the slope of the grid wire between the side rods.

2,171,226

ELECTRON DISCHARGE DEVICE

Pancras Schoonenberg, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabrieken, Eindhoven, Netherlands

Application November 20, 1937, Serial No. 175,595
In the Netherlands January 25, 1937
1 Claim. (Cl. 250—27.5)



An envelope for an electron discharge device comprising a cylindrical glass shell, a cup-shaped press for closing the end of said envelope comprising a thick vitreous disc integrally joined to a cylindrical side wall of a diameter equal to the diameter of said shell, said side wall and shell being relatively thin, the rims of the shell and the side wall being flared and sealed together in a gas-tight annular seal, and relatively heavy lead-in conductors extending through in said vitreous disc of the press, with the material of the disc molded around and sealed gas-tight directly to each conductor, the junction between the material and the conductor being extensive to provide a strong mechanical support for the exterior ends of the conductors.

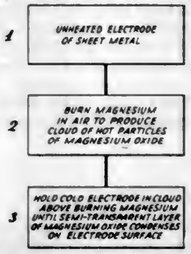
2,171,227

SECONDARY ELECTRON EMITTER AND METHOD OF MAKING IT

Willem J. H. Schreinemachers, Eindhoven, Netherlands, assignor to N. V. Philips' Gloeilampenfabricken, Eindhoven, Netherlands, a corporation of Netherlands

Application July 27, 1938, Serial No. 221,565
In the Netherlands August 9, 1937
3 Claims. (Cl. 250—174)

1. The method of making secondary electron emitting electrodes having high secondary electron emissivity, which comprises producing a cloud of oxide of an active metal selected from the alkaline earth metals and magnesium by burning the active metal in an oxidizing atmosphere, and exposing a metal core body to said



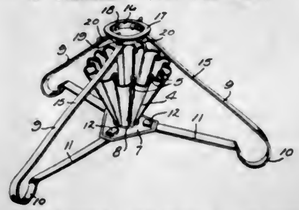
cloud of oxide to form on said core body a layer of oxide from said cloud.

2,171,228

CHRISTMAS TREE STAND

Alfred J. Schulz and Herbert H. Schulz, Milwaukee, Wis.

Application June 8, 1936, Serial No. 84,042
5 Claims. (Cl. 248—44)



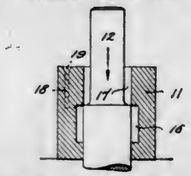
4. In a Christmas tree stand, the combination with a trunk-encircling ring and trunk-engaging means adjustably carried thereby, of a receptacle centered in spaced relation to said ring therebeneath and comprising a seamless sheet metal container unitarily formed with walls having flutes providing downwardly converging butt-positioning surfaces, and a supporting structure provided with floor engaging portions and portions connected respectively with said receptacle and ring for the support thereof in unitary assembly.

2,171,229

PROCESS FOR MANUFACTURING CAST BEARINGS FROM LIGHT METAL ALLOYS

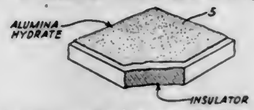
Carl Steiner, Heilbronn, Germany, assignor to American Lurgi Corporation, New York, N. Y., a corporation of New York

Application May 4, 1937, Serial No. 140,600
In Germany December 18, 1935
9 Claims. (Cl. 22—201)



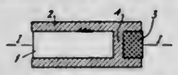
8. The method of producing composite light metal bearings which comprises casting a supporting shell constituted of an aluminum alloy having great structural strength, casting an inner shell constituted of a light metal alloy having good anti-friction properties, and bringing the outer surface of said inner shell into intimate contact with the inner surface of said outer shell while both shells are at least in a semi-plastic condition.

2,171,230
INSULATING COATING
Delos H. Wamsley, West Caldwell, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application February 28, 1938, Serial No. 193,137
4 Claims. (Cl. 250—177)



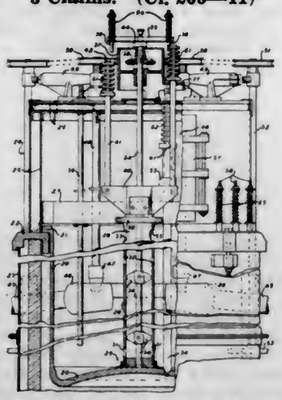
1. An electron discharge device having cooperating electrodes in an envelope, insulating surfaces in said envelope, and a coating of alumina monohydrate at least .005'' thick on said surfaces.

2,171,231
ELECTRIC CONDENSER
Werner Braunschweig, Berlin, Germany, assignor to Telefunken Gesellschaft für Drahtlose Telegraphie m. b. H., Berlin, Germany, a corporation of Germany
Application January 25, 1936, Serial No. 60,817
In Germany February 25, 1935
2 Claims. (Cl. 175—41)



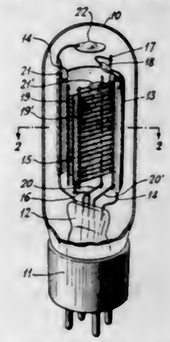
2. A condenser element comprising a metallic sheet which serves as an electrode, a major portion of one surface of said sheet having an insulating coating forming a condenser dielectric portion, a minor portion of said surface being uncoated, a major portion of said insulating coating having a metallized layer serving as the other condenser electrode, the other surface of said sheet having a minor portion of its surface coated with insulation and a major portion uncoated, the major and minor portions of said coated and uncoated portions of one surface being located opposite the minor and major portions respectively of the other surface.

2,171,232
MATERIAL TREATING APPARATUS
Aeneas J. N. Duclos, South Orange, N. J., assignor to Western Electric Company, Incorporated, New York, N. Y., a corporation of New York
Application December 8, 1937, Serial No. 178,678
3 Claims. (Cl. 263—11)



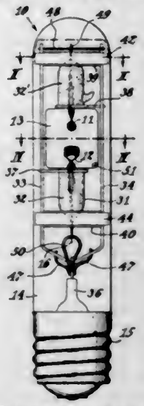
1. A material heating apparatus comprising a kettle, means to heat the kettle, a top cover mounted on the kettle, a stirrer mounted on the top cover to extend into the kettle and resilient means in the mounting of the stirrer to permit the stirrer to be yieldingly displaced relatively to the kettle.

2,171,233
PHOTOTUBE
Ruth J. Erichsen, East Orange, N. J., assignor, by mesne assignments, to Radio Corporation of America, New York, N. Y., a corporation of Delaware
Application August 13, 1937, Serial No. 158,893
2 Claims. (Cl. 250—166)



1. A phototube comprising a semi-cylindrical shaped light sensitive photocathode, a thin flat light sensitive secondary emitter cathode set edgewise to said photocathode and sufficiently close to prevent reflected light and electrons from either side of the secondary emitter going to the other side of said secondary emitter, and a flat grid-like collector electrode positioned on each side of said secondary emitter cathode, each of said collector electrodes being separate and distinct and electrically insulated from the other.

2,171,234
DISCHARGE DEVICE AND ELECTRODE
George A. Freeman, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application August 12, 1937, Serial No. 158,678
20 Claims. (Cl. 176—122)

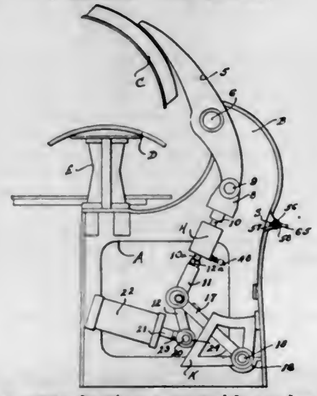


1. An electric discharge device comprising a

sealed envelope, a leading-in conductor extending into each end of said envelope, a looped-over wire associated with each conductor, leaving a laterally elongated eye, and extending back along the leading-in conductor toward its point of entry into said envelope, a coil of refractory wire wound around the inner arm of said looped-over wire to form a main electrode surface of relatively large area, and another coil of wire disposed around the extended portion of said looped-over wire and conductor, outwardly of said loop, and coated with electron-emission material to form a starting electrode surface.

15. A seal comprising a lead-in conductor thinly covered with a skin of suitable glass for a considerable distance and a relatively short bead of glass of substantially the same composition applied to said covered portion.

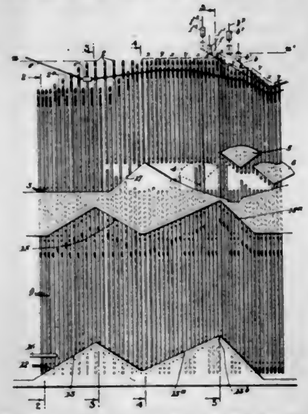
2,171,235
AUTOMATIC FLUID CONNECTION FOR TOGGLE ACTIONS
Arthur O. Gates, Otto H. Pearson, and George Pearson, Salt Lake City, Utah, assignors, by mesne assignments, to Nicholas L. Strike, Salt Lake City, Utah
Application February 24, 1937, Serial No. 127,352
5 Claims. (Cl. 38—40)



3. In a press having a movable and a stationary press element, pressure means including a toggle to cause relative pressing engagement of said elements, a lost motion connection interposed in a portion of said pressure means which is in compression when the movable element has been actuated, said lost motion connection including a piston connected to one part, and a cylinder connected to another part of said pressure means, a fluid in said cylinder, conduit means to allow removal of said fluid from said cylinder under said compression, and valve means in said conduit responsive to movement of the toggle to an almost alined position to stop said fluid removal, whereby further lost motion is prevented and further movement of the toggle to alined position brings the elements into pressing engagement.

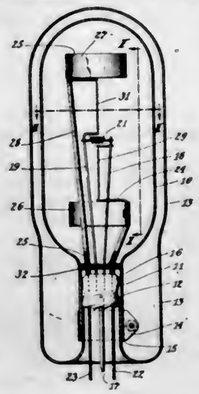
2,171,236
PROCESS OF KNITTING
James Louis Getaz, Maryville, Tenn.
Original application April 17, 1937, Serial No. 137,451. Divided and this application April 12, 1938, Serial No. 201,473
7 Claims. (Cl. 66—9)

1. A method of making tubular plain knit seamless ornamented form fitting and self-supporting fabric, which consists in producing continuous courses of plain knitting with two contrasting inelastic body threads, introducing in certain courses an elastic thread in front of spaced selected needles, and in rear of intervening needles, and in certain courses, feeding one of said inelastic body threads in front of separated selected groups of needles, and the second inelastic body thread in rear of said selected groups and



feeding both inelastic body threads to the intervening groups of needles, in plated relation with said second thread on the outer face of the fabric, and applying sufficient tension to said elastic thread to draw the fabric together when disengaged from the needles to reduce its diameter and draw wales thereof together and bring the floated portions of said second inelastic body thread into slackened condition.

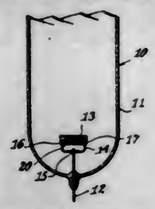
2,171,237
VAPOR LAMP
Daniel S. Gustin, Bloomfield, N. J., assignor, by mesne assignments, to Westinghouse Electric and Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application October 20, 1934, Serial No. 749,197
3 Claims. (Cl. 176—122)



1. In combination with an electrical discharge device comprising an elongated bulb, an anode in said bulb at each end, a cathode disposed between said anodes, and heating means electrically connecting said cathode and anodes, of means for energizing said device comprising a transformer

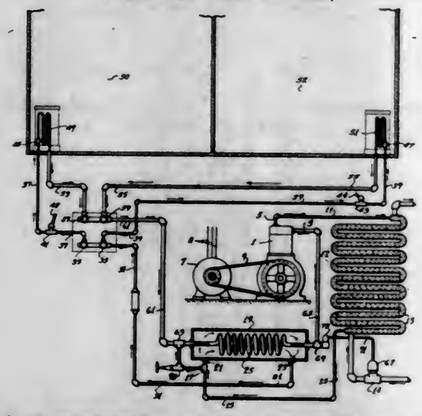
the secondary terminals of which are connected to said anodes, and stabilizing means, one terminal of which is connected to a central tap on said secondary, and the other terminal of which is connected to a central point of said cathode, for minimizing flicker of said device.

2,171,238
DISCHARGE DEVICE AND ELECTRODE
Daniel S. Gustin, Bloomfield, N. J., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application September 2, 1937, Serial No. 162,087
3 Claims. (Cl. 176—126)



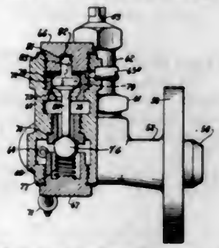
1. An electric discharge device comprising a sealed envelope, a leading-in conductor extending into each end of said envelope, an electrode secured to the inner end of each conductor, each electrode being formed of braided wire bent to cylindrical form with free edge portions overlapped and connected to form an outstanding flange portion and carrying electron-emission material, and connecting means between each electrode and its conductor comprising a U-shaped wire the arms of which are secured to the electrode flange and the intermediate portion of which is attached to the conductor.

2,171,239
REFRIGERATOR HEAT INTERCHANGER
Ernest Gygax, St. Louis, Mo., assignor to Curtis Refrigerating Machine Company, Wellston, Mo., a corporation of Missouri
Application March 20, 1936, Serial No. 69,875
9 Claims. (Cl. 62—115)



1. A refrigeration system comprising a compressor, a condenser to receive the output of said compressor, a liquid receiver reservoir communicating with said condenser, an evaporating means communicating with said liquid receiver, a heat interchanger adapted to exchange heat with the contents of the liquid receiver, a return line connecting said evaporating means with said heat interchanger, said heat interchanger being connected with the inlet of the compressor, and a valve adapted to pass a portion of the output of the compressor into said heat interchanger.

2,171,240
BLOW-OFF VALVE
Walter H. Hinsch, Chicago, Ill., assignor to Dearborn Chemical Company, Chicago, Ill., a corporation of Illinois
Original application July 20, 1936, Serial No. 91,510, now Patent No. 2,146,144, dated February 7, 1939. Divided and this application April 8, 1937, Serial No. 135,670
7 Claims. (Cl. 277—63)

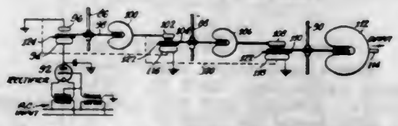


1. A blow-off valve comprising a hollow body formed with a steam line inlet, a boiler water inlet and a boiler water outlet, a valve for controlling the passage of water through the body to the outlet, means operable by steam entering the body from the steam line inlet for opening said valve, and means for providing a jet orifice in the body between the boiler water inlet and said valve for controlling the volume of water passing through the valve, the orifice being so arranged to discharge tangentially with respect to the axis of the valve so that its jet does not impinge against the valve.

2,171,241
SILK
Treat Baldwin Johnson, Bethany, Conn., assignor to Textile Foundation, Washington, D. C., a corporation of the District of Columbia
No Drawing. Application May 12, 1936, Serial No. 79,403
10 Claims. (Cl. 8—128)

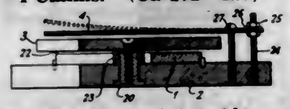
1. The process of acylating silk fibroin which comprises exposing the fibroin to a ketene.

2,171,242
HIGH-VOLTAGE GENERATOR
Nils E. Lindenblad, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Original application August 9, 1933, Serial No. 684,328. Divided and this application May 23, 1936, Serial No. 81,360
4 Claims. (Cl. 171—329)



1. Apparatus for generating high voltages comprising an alternating current source, an electron discharge rectifier device having an anode grid and cathode, a transformer system connected to said alternating current source, at least one transformer of said system being connected to the grid of said electron discharge device, and at least one other transformer of said system being connected to the cathode of said electron discharge device, a chargeable medium, an induction electrode coupled to the anode of said rectifier device, an insulating medium separating the induction electrode from the chargeable medium, a charging electrode for charging said chargeable medium under the influence of said induction electrode, and means for discharging the charged medium into a utilization circuit.

2,171,243
FREQUENCY CONTROL SYSTEM
Lewis J. McKesson, Port Jefferson, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application May 14, 1937, Serial No. 142,612
4 Claims. (Cl. 171—327)



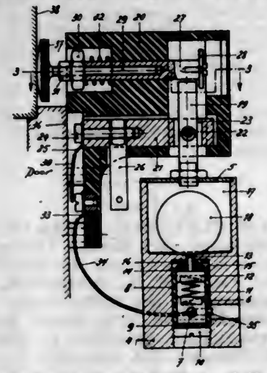
3. A piezo-electric crystal holder comprising a base member acting as one electrode for said crystal holder, a crystal mounted on said base member, a second electrode located above said crystal, a third electrode comprising a bimetallic strip in variable capacitance relationship with said second electrode and electrically connected to said first electrode, and threaded means in said base member for adjusting said third electrode with respect to said second electrode.

2,171,244
FOOD COMPOUND
Theodore J. Otterbacher, Zion City, Ill., assignor, by mesne assignments, to Corn Products Refining Company, New York, N. Y., a corporation of New Jersey
No Drawing. Application March 26, 1937, Serial No. 133,186
14 Claims. (Cl. 99—134)

1. Process of making food compounds of the character herein described which comprises: Forming a syrup in which dextrose is insoluble; adding an edible colloid having beating properties and beating the mixture; then adding and beating into the mixture finely divided dextrose hydrate the finely divided dextrose hydrate being added and beaten into the mixture under conditions such that the crystals will remain substantially unchanged in the product.

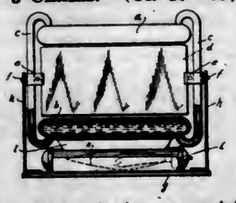
2,171,245
CIRCUIT BREAKING DEVICE FOR ELECTRICAL ALARM INSTALLATIONS
Christian Roth, Zurich, Switzerland
Application August 3, 1937, Serial No. 157,121
In Switzerland August 10, 1936
9 Claims. (Cl. 200—54)

1. In a circuit-breaking device for electrical alarm installations operating with normally closed circuit, the provision as one contact device in said circuit, of an insulated sleeve; a pair of connecting members for connection to one pole of a source of current carried in said sleeve; a spring interposed between said members adapted to retain said members in spaced relation one at each end of said sleeve; a contact pin on said other member said pin protruding from said sleeve and being electrically connected to said first mentioned member through said spring; and current conducting means for connection to the other pole of said current source, said means being disposed adjacent and



in engagement with said pin and the dimensions of said spring being such that external vibrations transmitted to said casing cause said spring to oscillate and said pin to become temporarily disengaged from said current conducting means.

2,171,246
ADVERTISING AND DISPLAY DEVICE
Julius Schweiger, Budapest, Hungary
Application March 8, 1938, Serial No. 194,558
In Austria July 14, 1937
3 Claims. (Cl. 40—39)



1. An advertising device comprising a text or picture carrier capable of being partly rotated or tilted step by step at spaced intervals of time, means supporting said carrier including a closed frame-like vessel structure disposed in a single general plane and mounted on pivot means located in said plane having a practically horizontal axis passing through the center of gravity of the vessel structure, said frame-like vessel structure consisting of a plurality of containers interconnected by pipe means and there being a source of heat beneath said structure, and a quantity of volatile liquid under low pressure located within said vessel structure, so that the liquid in the container of the vessel structure temporarily disposed below the axis of rotation will become heated and conducted to the higher container above said axis until the latter becomes unbalanced and by superior weight from accumulated liquid causes the vessel structure and associated text or picture carrier to periodically turn over on the axis 180° and thus show alternately the opposite sides of said carrier in turn.

2,171,247
APPLIANCE FOR CORRECTING BUNIONS
Horace J. Strickland, Chicago, Ill.
Application November 29, 1937, Serial No. 177,029
3 Claims. (Cl. 128—81)

1. A device comprising a base plate shaped

to fit in the toe of a shoe, said plate having transverse slots; an elongated upright adjustably guided by said slots, said upright having a slot



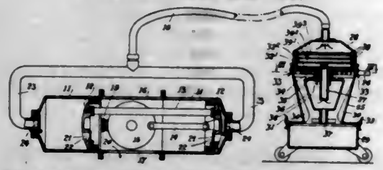
parallel to said base plate and extending longitudinally of said upright and opening at the rear of said upright.

2,171,248

VACUUM CLEANING APPARATUS

Wilhelmus Adrianus van Berkel, Clarens, Montreux, Switzerland, assignor to Maatschappij van Berkel's Patent N. V., Rotterdam, Netherlands, a company of the Netherlands

Application January 20, 1936, Serial No. 59,931
In Great Britain February 21, 1935
4 Claims. (Cl. 183—83)



1. In a vacuum-cleaning-apparatus of the type which is portable and adapted for domestic purposes, a dust separator comprising a housing, an inlet conduit tangentially arranged in said housing, an outlet conduit arranged inside said housing, a multi-blade dust deflector so mounted that it rotates in a plane with said inlet conduit and around said outlet conduit, the deflector throwing the heavier and lagging dust particles to the outer portion of the housing, a conical wall constituting a lower part of said housing, an inner masking element the side of which is substantially parallel to said conical wall to form therewith an annular separation zone of approximately constant radial width, said masking element being arranged to mask said outlet conduit, and said conical wall and masking element limiting the separation zone beneath the deflector, vanes spaced around the inner periphery of the conical wall, the radial dimensions of said vanes increasing with the depth so that the cyclone separation action started in the upper portion of the housing and assisted by the tangential inlet conduit and the deflector is, as it continues into the lower separation zone, gradually diminished by the increasing depth of the vanes and corresponding decrease in the space wherein the air is free to rotate, and a removable collector into which the dust can slide down the gradually increasing channels formed by the vanes.

2,171,249

CATHODE FOR ELECTRON DISCHARGE DEVICES

Erich Wiegand, Berlin-Waidmannlust, Germany, assignor to Allgemeine Elektricitats Gesellschaft, Berlin, Germany, a corporation of Germany

No Drawing. Application June 14, 1935, Serial No. 26,639. In Germany July 11, 1934
5 Claims. (Cl. 250—27.5)

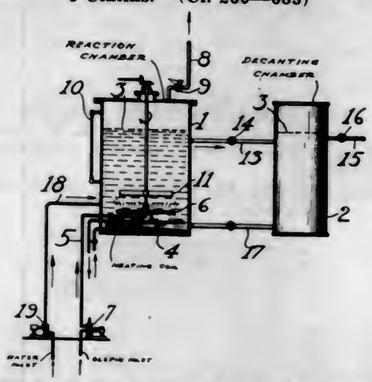
1. In an electron discharge device, a cathode support having an oxide coating and comprising an alloy of only a metal of Group 1 Sub 2 of the periodic table and a metal of the eighth group of the periodic system comprising not more than 10% of the alloy.

2,171,250

OLEFIN POLYMERIZATION

Francis M. Archibald, Elizabeth, N. J., assignor to Standard Alcohol Company

Application June 13, 1935, Serial No. 26,406
6 Claims. (Cl. 260—683)



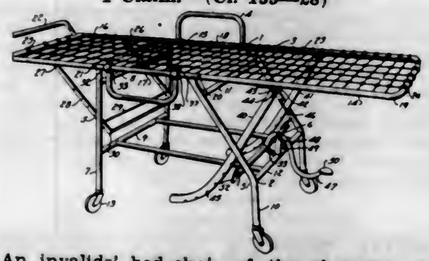
1. An improved process for producing hydrocarbon polymers of the motor fuel range comprising passing a mixture of light hydrocarbons, including iso-olefins through a bath of aqueous sulfuric acid of 55 to 85% concentration, at a temperature of from about 60 to 130° C., whereby polymers are produced, removing the reacted mixture to a separation zone maintained under substantially the same reaction conditions and withdrawing the hydrocarbons from the acid phase.

2,171,251

INVALID'S BED-CHAIR

Ralph C. Capron, Ottawa, Kans.

Application October 26, 1936, Serial No. 107,519
1 Claim. (Cl. 155—28)



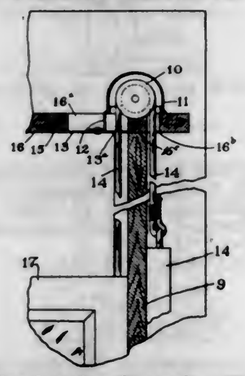
An invalids' bed-chair of the character described including a wheeled frame of a width adapting it for passage through an ordinary doorway, said frame consisting of a plurality of connected upright and horizontal members, said upright members being of sufficient height to position the horizontal members substantially in the horizontal plane of a hospital bed, the wheels on said frame being of sufficient diameter to prevent jarring of the bed-chair when rolled thereon, relatively adjustable body rest sections on said frame, and arms on said horizontal members of the frame foldable from upright to lowered position to allow transfer of an invalid from a hospital bed to said bed-chair while in reclining position.

2,171,252

SASH COUNTERBALANCING MEANS FOR WINDOW FRAMES

Harry W. Cook, Malta, Ohio

Application May 3, 1938, Serial No. 205,852
2 Claims. (Cl. 16—211)



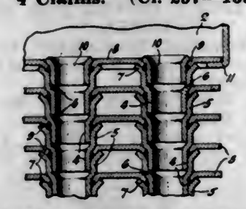
2. A pulley housing for sash counterbalancing means in a window frame having a pulley stile and a head jamb with cord openings and a bridge between them coinciding with the contiguous end of the pulley stile, said pulley housing including a hood portion to contain the pulley, said hood being open at its lower portion where it is to rest upon the upper side of the head jamb and having at one end thereof a downwardly extended leg of a length substantially equal to the thickness of the head jamb of the window frame, and a plate member at the lower extremity of said leg extending horizontally outward from said leg and hood and provided with an opening for means securing said plate member to the lower side of the head jamb.

2,171,253

TUBULAR RADIATOR

George W. Day, Newfane, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application October 22, 1938, Serial No. 236,401
4 Claims. (Cl. 257—139)



1. In a heat exchanger, a series of spaced fins having aligned apertures with frusto-conical rims, and a series of nested tube sections projecting through said apertures with succeeding tube sections provided with cooperating frusto-conical portions engaging opposite sides of said frusto-conical rims.

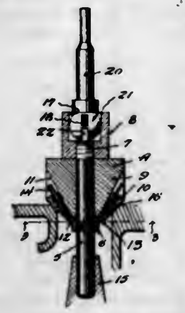
2,171,254

ABRASIVE TOOL

Leonard J. Kaufman and Charles H. Shemchak, Manitowoc, Wis.

Application June 15, 1935, Serial No. 26,810
1 Claim. (Cl. 51—241)

In a valve seat grinding tool, a rotatable body, an abrasive supporting head on one end of said body and having a side wall surface tapered at an angle corresponding substantially to the angle of the valve seat, said head having comparatively deep longitudinal grooves therein, an abrading element shaped to fit upon said head and having a wall surface shaped like and fitting upon the side wall of said head, said element having indentations therein that are received within said



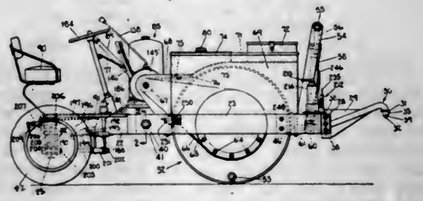
head grooves, clamping means carried by said body and extending into said indentations and constructed and arranged to press the abrading element inwardly into said head grooves to draw and hold said element evenly and tautly upon said head, and means carried by said body and operable to move and hold said first means within said indentations and also adapted to detachably secure said first means and abrading element in place upon said head.

2,171,255

PORTABLE ROAD ROLLER

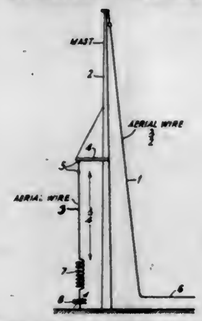
Raymond W. Keeler, Galion, Ohio, assignor to Galion Iron Works & Manufacturing Company, a corporation of Ohio

Application July 27, 1935, Serial No. 33,543
27 Claims. (Cl. 94—50)



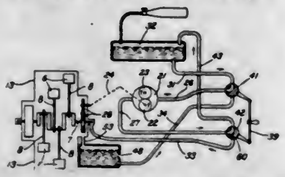
1. In a road roller, the combination with a vehicle frame, of steering mechanism comprising rear supporting wheels for said frame, mechanism at the forward end of said frame for connecting the same to towing means, a supplemental frame pivoted at one end to said vehicle frame intermediate the ends of the latter, a roller carried by said supplemental frame, power-operated apparatus for driving said roller when engaging the roadway to propel said vehicle when disconnected from said towing means, said wheels and said rollers serving as the sole support for said frames when the vehicle frame is disconnected from the towing means and mechanism connected between said frames for lifting the roller up off the roadway when said vehicle frame is connected to and supported by said towing means.

2,171,256
RADIO AERIAL
Eric Balliol Moullin, Oxford, England, assignor to Radio Corporation of America, a corporation of Delaware
Application May 4, 1937, Serial No. 140,584
In Great Britain May 6, 1936
10 Claims. (Cl. 250—33)



1. An aerial arrangement comprising a vertical half wave antenna and means for increasing the effective height of the current distribution curve of said antenna, said means including a subsidiary vertical antenna extending parallel to said half wave antenna for substantially half its height and spaced therefrom.

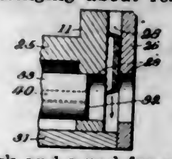
2,171,257
INTERNAL COMBUSTION ENGINE
Romeo M. Nardone, East Orange, N. J., assignor to Eclipse Aviation Corporation, East Orange, N. J., a corporation of New Jersey
Application November 2, 1936, Serial No. 108,864
4 Claims. (Cl. 123—196)



1. In an internal combustion engine, the combination with a crankshaft of bearing containing supports for said crankshaft, a cylinder block housing said crankshaft, means for circulating lubricating fluid through said cylinder block, said means including an oil sump connected to said block, an oil pump drivably connected to said crankshaft, means including said oil pump for establishing communication between said oil sump and said bearing containing supports, and means including a liquid source of potential energy for initially energizing said oil pump to impart initial rotary movement to said crankshaft.

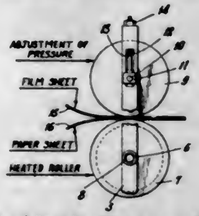
2,171,258
METHOD AND APPARATUS FOR LINING CROWN CAPS
Paul E. Pearson, Chicago, Ill., assignor to Continental Can Company, Inc., New York, N. Y., a corporation of New York
Application July 12, 1937, Serial No. 153,245
41 Claims. (Cl. 113—80)

1. The method of assembling cap pads and protective disks which comprises, pneumatically attaching a fusible adhesive coated disk to a supporting element, heating the disk on said element, and bringing about relative movement



between the disk and a pad for applying the disk to the pad.

2,171,259
PROCESS FOR WELDING FILM
Clyde Scott, East Orange, N. J.
Original application April 15, 1933, Serial No. 666,359. Divided and this application March 25, 1936, Serial No. 70,766
17 Claims. (Cl. 154—40)



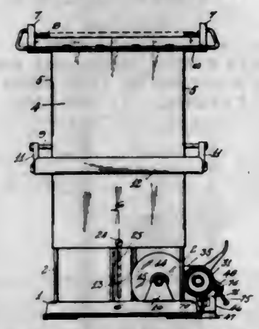
1. A method of laminating non-fibrous film to base material, comprising the steps of feeding non-fibrous film having at least one thermo-adhesive surface directly from a supply roll between two pressure-applying rollers; feeding base material from a supply roll into contact with the thermo-adhesive surface of said film between said pressure-applying rollers; applying heat to said film sufficient to render said thermo-adhesive surface directly adhesive, and at the same time applying rigid pressure and resilient counter pressure in opposed relation to said non-fibrous film and said base material to render said adhesive surface of said non-fibrous film adherent to said base material.

2,171,260
EYEPIECE LIGHT FILTER FOR PHOTOMETERS
Clifford J. Thompson, Washington, D. C.; dedicated to the free use of the People of the United States of America
Application July 23, 1938, Serial No. 220,942
3 Claims. (Cl. 88—23)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



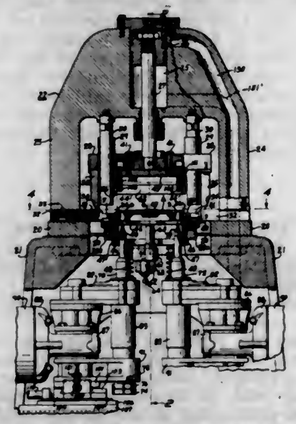
1. A device of the character described housed by the eyepiece casing of a photometer, comprising a heart-shaped color filter magazine carrying a plurality of color filters, said magazine having its pointed end eccentrically pivoted to a disc, said disc being fixedly mounted on an extended shaft of the eyepiece aperture disc of said photometer, said eyepiece disc being rotatably mounted on said casing, the other end of said magazine terminating in a slotted stem slidably engaged with a pin, the slot being on a line directed toward the pivot, said pin being fixedly mounted to the eyepiece casing of the photometer.

2,171,261
COPY HOLDER
Herman C. Welter, Rochester, N. Y., assignor to The Dawn Mfg. Corp., Rochester, N. Y., a corporation of New York
Application August 8, 1938, Serial No. 223,598
11 Claims. (Cl. 120—29)



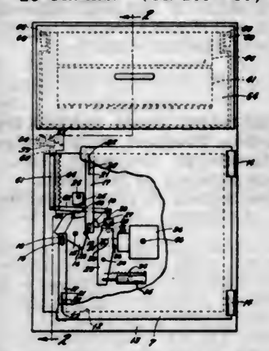
1. In a copyholder, the combination with a standard, a copy plate and a line indicator carried thereby, one of which is adapted to be raised and lowered relatively to the other, and elevating means on the standard connected to such movable element and embodying a rotary element having a shaft extending transversely relatively to the copy plate, of a normally forwardly extending side arm hingedly connected to the standard to fold across the face thereof, an operating shaft on the side arm, and a clutch connection between the latter shaft and that of the rotary element.

2,171,262
TRIMMING AND REAMING MACHINE
Everett W. Beekman and Richard Haubursin, Muncie, Ind., and Edgar E. Ward, Verona, N. J., assignors to General Motors Corporation, Detroit, Mich., a corporation of Delaware
Application January 21, 1938, Serial No. 186,108
28 Claims. (Cl. 29—33)



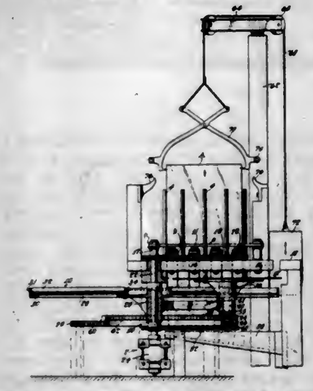
1. A machine for finishing molded work pieces comprising, in combination, a table having an opening for receiving a work piece, a resiliently supported platform within said opening for supporting a work piece and spring urged to a position normally flush with the table, means for clamping the work piece against the platform and moving the work piece through said opening and the platform therewith, and a finishing tool for operating upon the work piece as it is clamped and moved through said opening.

2,171,263
PROTECTIVE DEVICE
Fredrick J. Bremer, Hamilton, Ohio, assignor to The Mosler Safe Company, Hamilton, Ohio, a corporation of New York
Application September 18, 1936, Serial No. 101,475
13 Claims. (Cl. 109—59)



4. In a depository of the anti-bandit variety having an accessible compartment closed by a door, and a normally accessible shiftable receptacle adapted to transfer its contents to said compartment when shifted to an inaccessible position, the combination of means normally operable from a location exteriorly of the depository for bolting the door in the closed position, means operative by the shifting of said receptacle to the inaccessible position, for locking the door bolting means and precluding access to said compartment, and a release for the door bolting means including a timing mechanism to delay access to said compartment for a predetermined interval of time.

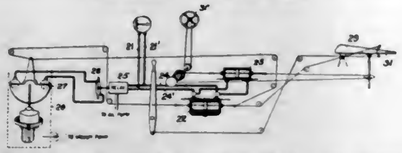
2,171,264
ICE CUBING MACHINE
Donald G. Campbell, New York, N. Y.
Application April 30, 1937, Serial No. 139,959
3 Claims. (Cl. 143—33)



1. A cutting machine of the class described comprising a frame, a plurality of members carried by said frame and forming a guideway for the object to be cut, saw arbors carried by said

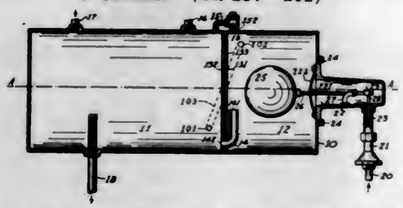
frame, saws carried by said arbors and traversing the guideway, a power shaft, gears connecting said shaft and arbors for operating the saws, a receiving table, a support for the table rotatably mounted on the power shaft, an arm extending from said support, a saw shaft supported by said arm at the outer end thereof, a rotatable saw carried by said saw shaft above the table, a plurality of gears splined on the lower end of the saw shaft, a driving connection between one of the gears and the power shaft for rotating the saw about its own axis, and a rack adapted to engage another of the gears whereby rotation of the shaft will simultaneously revolve the table and saw about another axis.

2,171,265
AIRCRAFT TRIM INDICATOR
Bert G. Carlson, Freeport, N. Y., assignor to The Sperry Gyroscope Company, Inc., Brooklyn, N. Y., a corporation of New York
Application March 22, 1938, Serial No. 197,365
4 Claims. (Cl. 244—78)



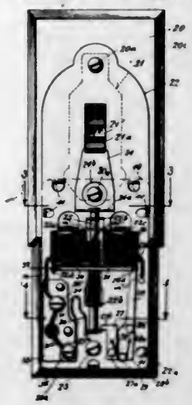
4. In a hydraulic automatic pilot for aircraft having both service and trim elevation control surfaces, a hydraulic servomotor for each, the trim motor being slowly responsive to the predominant pressure in said service motor, and a trim indicator also connected to the hydraulic supply for said motors and slowly responsive to the predominant pressure therein to check the operation of the trim control motor.

2,171,266
WATER CONDITIONER
William M. Cissell, Louisville, Ky.
Application December 30, 1935, Serial No. 56,701
3 Claims. (Cl. 137—101)



1. A water conditioner for supplying hot water to a steam generator comprising a tank divided into a hot water chamber and a cold water chamber by a common partition; said cold water chamber having a valved vent, preventing ingress of gas, a source of water supplied thereto under pressure and automatically controlled in response to a water level established therein; said hot water chamber having a vent to atmosphere, an inlet for the return of condensed steam, an outlet for connection to a pump for withdrawing and delivering hot water to said steam generator; said chambers being interconnected by an open water conveying duct extending from a relatively high level in the cold water chamber to a substantially lower level in the hot water chamber; said chambers also being interconnected by an open gas conveying tube extending from the top section of the cold water chamber to the lower section of the hot water chamber carrying gas from the hot water chamber to the other chamber only when the water level of the last said chamber falls below the lower opening of said tube.

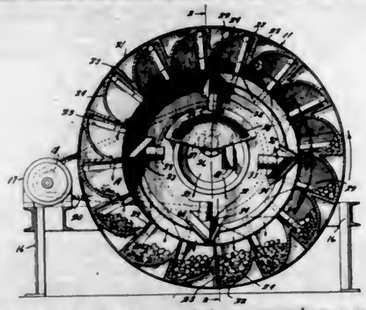
2,171,267
ELECTRIC SWITCH
Alfred F. Doty, Bridgeport, Conn.
Application December 19, 1936, Serial No. 116,707
7 Claims. (Cl. 200—106)



1. As a new article of manufacture, an attachment for actuating a switch having an apertured flush plate and a manually operable member projecting therethrough for normally operating said switch to either of its alternate positions, said attachment comprising a plate; means for attaching the plate to said flush plate; means slidably mounted on the last-named plate engaging said operating member and movable to alternate positions corresponding to the alternate positions of said switch; means including spring means for normally urging said last-named means to one of the said alternate positions to urge said switch to one of its alternate positions; latch means for holding the slidably mounted means in the other of the alternate positions against the action of said spring means; means for locking said latch means in holding position; and electro-responsive means for releasing said locking means thereby releasing said latch means.

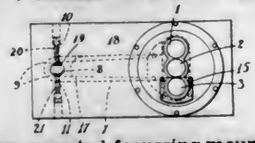
2,171,268
ORE REDUCING MACHINE
Harlowe Hardinge, York, Pa., assignor to Hardinge Company, Incorporated, York, Pa., a corporation of New York
Application July 18, 1936, Serial No. 91,402
2 Claims. (Cl. 83—46)

1. In an ore reducing machine, a revolvable drum comprising end walls and a peripheral wall, buckets arranged around the interior of the peripheral wall of the drum and midway between the end walls of the drum, said buckets having their end extending towards the end walls of the drum, an annular frusto-conical shroud mounted on the interior of an end wall, the inner edge portion of said shroud abutting the end of the drum being of less diameter than the diameter of the outer edge portion of the shroud, the shroud extending inwardly from the end wall and vertically overlapping the ends of the buckets, a plurality of plates mounted on the interior of the end wall of the drum and contacting the shroud and the ends of said buckets and dividing the end portion of the drum into a plurality of compartments for reception of ore, means formed



at intervals in the shroud for removing a portion of the ore from the compartments, and stationary means underlying said ore removing means for discharging from the machine the ore thus removed from the compartments.

2,171,269
CAMERA
Albert George Hillman, Maidenhead, England
Application September 4, 1937, Serial No. 162,455
In Great Britain September 9, 1936
7 Claims. (Cl. 88—16.4)



1. A screw operated focussing mount for a cinematographic or photographic camera, comprising a plurality of objectives, a screw-threaded mount therefor, a co-operating screw member for axially displacing said mount for simultaneously focussing said objectives, the co-operating screw surfaces of said mount and member encircling the axes of the objectives, a member fixed to the said mount and opposing members co-operating with said latter member for positively restraining the mount against rotation whilst it is being moved axially during focussing, at least a portion of said member fixed to the mount being movable relatively to said opposing members in the direction of the axis of the mount to permit of focussing movement of said mount, supports for said opposing members, said members being adjustable in relation to said supports for partially rotating the said fixed member and the mount when required about the axis of the screw surface of the mount so as to turn at least one of said objectives bodily about such axis for controlling the arrangement of the images cast by the said objectives on the image-receiving surface.

2,171,270
COLLAR FASTENER
Felix Holzknecht, Vancouver, British Columbia, Canada, assignor of five per cent to John Morisi, Washington, D. C.
Application October 15, 1937, Serial No. 169,268
2 Claims. (Cl. 24—101)

1. A collar fastener comprising a single piece of resilient wire curved longitudinally and having inwardly inclined side portions, said side portions having an upwardly extended member and a transversely extended member, the latter stopping short of a vertical axis of the fastener and said transverse member terminating in downwardly extended legs, said legs having closed eye-



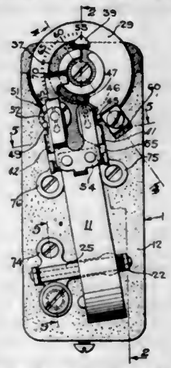
lets, the centers of which lie approximately in a plane parallel to the longitiudinal axis of respective side portions.

2,171,271
HONING MACHINE
Albert M. Johnson, Rockford, Ill., assignor to Barnes Drill Co., Rockford, Ill., a corporation of Illinois
Application October 15, 1938, Serial No. 235,125
14 Claims. (Cl. 51—34)



1. A honing machine comprising, in combination, an elongated horizontally disposed frame, means for supporting a work piece adjacent one end of the frame, a horizontal guideway on the other end of the frame, a head mounted on said guideway for movement toward and from the work piece, a tubular spindle journaled on said head and carrying an expansible and contractible honing tool, a tool-actuating rod extending through said spindle, spring means acting on said rod normally effective to hold the rod in a retracted position to permit contraction of the tool, means for reciprocating said head to traverse the tool over the work piece, means for expanding the tool into operative engagement with the work piece including a hydraulic cylinder mounted on said head, a piston in said cylinder operable to shift the tool-actuating rod against the action of said spring to expand the tool, a pump for supplying pressure fluid to said cylinder to operate the piston, and common power driven means on said head for rotating said spindle and for driving said pump.

2,171,272
CONDITION RESPONSIVE SWITCH
Carl G. Kronmiller and Homer E. Malone, Minneapolis, Minn., assignors to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware
Application December 21, 1935, Serial No. 55,603
29 Claims. (Cl. 200—139)



1. In a thermostatic switch, a base member, a

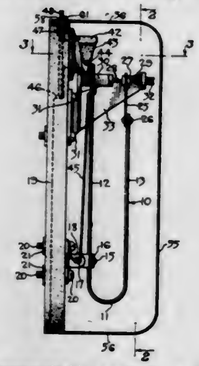
temperature responsive element, means pivotally mounting said temperature responsive element for movement perpendicularly to said base, an adjusting cam having a helical surface and rotatably mounted on said base with the axis of the helix extending perpendicularly to said base, said temperature responsive element comprising an elongated member engaging said cam surface and extending parallel to a line tangent to the cam surface at the point of engagement of said elongated member therewith and which elongated member is substantially perpendicular to a line intersecting the said axis and the cam surface at the point of engagement with said elongated member.

2,171,273

ADJUSTABLE THERMOSTATIC SWITCH

Lewis L. Cunningham, Milwaukee, Wis., assignor to Minneapolis-Honeywell Regulator Company, Minneapolis, Minn., a corporation of Delaware

Application December 24, 1936, Serial No. 117,621
11 Claims. (Cl. 200—139)



1. In a thermostatic switch, a base member, a substantially U-shaped thermostatic element, means mounting said thermostatic element for movement perpendicularly of said base member, a fixed contact secured to said base member, a contact operated by said U-shaped thermostatic element for engaging said fixed contact upon said element being subjected to a temperature of predetermined value, means for moving said U-shaped thermostatic element for adjusting the value of the temperature at which engagement takes place, said means including a rotatable member mounted at one end of said base member and having a helical cam surface, the axis of rotation of said member being perpendicular to said base member, a dial having indicia formed on the rotatable member and extending out beyond said base member, a cover for the thermostatic switch having an opening in its end through which at least a portion of the dial extends, and a pointer integral with the cover cooperating with the indicia of the dial for indicating the temperature setting of the thermostatic switch.

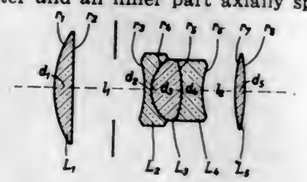
2,171,274

TELEPHOTOGRAPHIC OBJECTIVE

Willy Merté, Jena, Germany, assignor to the firm Carl Zeiss, Jena, Germany

Application June 12, 1937, Serial No. 147,832
In Germany June 22, 1936
3 Claims. (Cl. 88—57)

1. In a photographic objective the two principal points of which are in front of the front surface, the combination of a positive and a negative lens system, said negative system being in axial alignment with and lying in the rear of said positive system, said two systems being spaced apart by air, the refractive power of said positive lens system being greater than one and a half times and smaller than five times that of the objective, said negative system consisting of an outer and an inner part axially spaced by



					n_d	ν
r_1	= + 26.057	d_1	= 4.55	L_1	= 1.55226	63.3
r_2	= ∞	l_1	= 17.61			
r_3	= − 25.924	d_2	= 1.80	L_2	= 1.56735	42.8
r_4	= + 9.077	d_3	= 7.37	L_3	= 1.58910	61.3
r_5	= − 24.582	d_4	= 5.21	L_4	= 1.59667	39.1
r_6	= + 18.515	l_2	= 7.98			
r_7	= + 39.119	d_5	= 2.46	L_5	= 1.67165	32.3
r_8	= − 53.602					

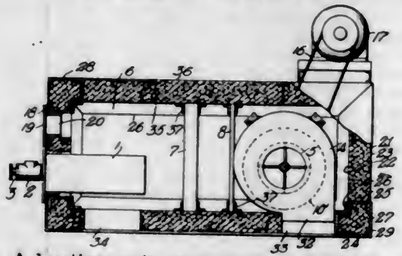
air, said inner part being dispersive, the numerical value of the refractive power of said outer part being smaller than the refractive power of the inner part, that refractive surface of said outer part which faces said inner part being convergent, and the axial air space between said inner and said outer part being greater than one third of the axial air space between said negative and said positive system.

2,171,275

HEATING UNIT

John R. Morrison, Hudson, Ohio

Application August 12, 1937, Serial No. 158,748
6 Claims. (Cl. 263—19)



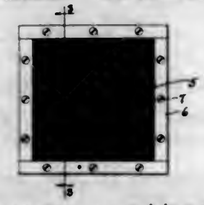
1. A heating unit comprising, in combination, a heating unit housing having heat insulating walls and inlet and outlet openings, and affording a substantially closed chamber, a burner for maintaining combustion within the chamber, a fan housing within the chamber, the fan housing having intake openings in opposite side walls and an outlet opening communicating with the outlet opening in said heating unit housing, said side walls of the fan housing being spaced from the walls of the heating unit housing within the chamber, a shaft and impeller in the fan housing, said impeller being mounted on the central portion of the shaft, the ends of said shaft extending through said fan housing intake openings and through apertures in opposite side walls of the heating unit housing, bearings located exteriorly of the heating unit housing for rotatably supporting both ends of the shaft, and means for driving the shaft and impeller in rotation.

2,171,276

METAL HALF TONE SCREEN

Edward O. Norris, Port Chester, N. Y., assignor to Edward O. Norris, Inc., New York, N. Y., a corporation of New York

Application October 31, 1936, Serial No. 108,505
5 Claims. (Cl. 95—81)



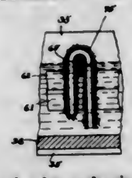
1. A half-tone screen comprising a thin perforated sheet of metal mounted in a rigid frame under tension, the surface of said sheet being substantially non-reflective to light.

2,171,277

METHOD OF FUR DYEING

Edward Ohsman, New York, N. Y.

Application April 29, 1937, Serial No. 139,663
2 Claims. (Cl. 8—10)



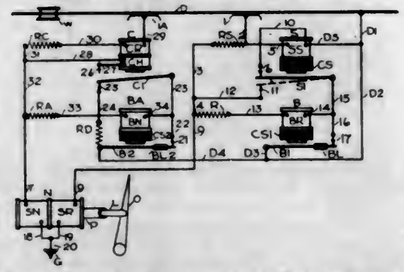
2. In a method of producing merging shadowing effects on a fur skin, the step of immersing the skin in a dye bath and simultaneously agitating the skin while immersed and raising portions of the skin out of the bath successively and at different time intervals during the said agitation.

2,171,278

VEHICLE-CONTROLLED SELECTIVE SYSTEM

Frank H. Richterkessing, Louisville, Ky., assignor to Cheatham Electric Switching Device Co., Incorporated, a corporation of Kentucky, and Nachod & United States Signal Co., Incorporated, Louisville, Ky., a corporation of Kentucky

Original application July 29, 1932, Serial No. 626,241, now Patent No. 2,092,021, dated September 7, 1937. Divided and this application August 10, 1937, Serial No. 158,362
8 Claims. (Cl. 246—227)



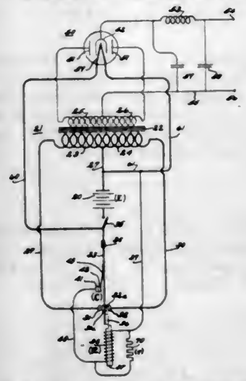
6. In a selectively operated relay system comprising, a normally open contact closed by a vehicle, while the said vehicle is passing over a particular portion of its path of travel; a source of power; a mechanism to be selectively operated or not operated; electrically controlled operating means for the said mechanism; an operating circuit for directing current to the said operating means; a switch normally disconnecting the operating circuit from the said source of power and operable to connect the said circuit to the source of power to establish a flow of operating current in the said operating circuit; and means providing an operation of the said switch, when the said contact is continuously closed for a predetermined time, and not otherwise.

2,171,279

SYSTEM OF CONVERTING DIRECT CURRENT

Raymond H. Sullivan, Rochester, N. Y., assignor to General Motors Corporation, Detroit, Mich., a corporation of Delaware

Application June 10, 1938, Serial No. 212,963
1 Claim. (Cl. 175—365)



A system for converting low voltage direct current into higher voltage comprising a transformer having a divided primary, a source of direct current, a vibratory interrupter having a reed connected in series with the current source and center tap of the transformer primary, contacts respectively connected with the ends of the transformer primary and engageable alternately with contacts carried by the reed, an armature carried by the reed, an electromagnet cooperating with said armature and having a winding connected with the current source through normally closed contacts actuated by the reed, and means for reducing sparking at said contacts and comprising a non-inductive resistance in shunt with the magnet winding.

2,171,280

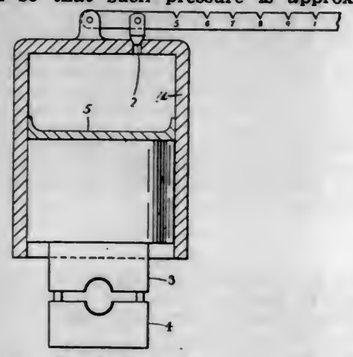
SECURING ATTACHMENT TO WIRE CABLES

Rene Tondeur, London, England, assignor to Bowden (Engineers) Limited, London, England, a British company

Application November 11, 1937, Serial No. 174,075
In Great Britain December 24, 1936
2 Claims. (Cl. 29—148)

1. A method of attaching stock to wire cables with reference to the co-efficient of friction (α) between the cable and the stock, the maximum parting force (f) to which the parts will be subjected and the total pressure (F) necessary to deform the stock in the absence of a core, which consists in fitting the stock to the cable and exerting on the stock a gradual pressure so as forcibly to close the stock around the cable into direct intimate contact therewith and con-

trolling the total pressure (F_1) exerted on the stock so that such pressure is approximately



that given by the formula

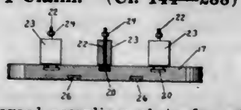
$$F_1 = F + \frac{f \times 1.1}{\alpha}$$

whereby to produce an intense friction grip between the stock and the cable without causing deformation of the cable or its strands beyond the limits of elastic recovery or any substantial penetration of the stock into the grooves between the strands of the cable.

2,171,281
WALKING DOLL CONSTRUCTION
Edel Torngren, Grand Rapids, Mich.
Application September 12, 1938, Serial No. 229,457
10 Claims. (Cl. 46—149)

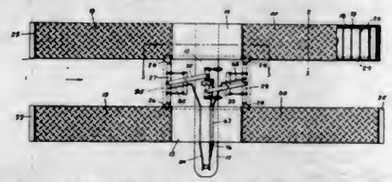
1. A walking doll comprising a body portion, a leg supporting member rigidly secured thereto, a pair of legs pivotally mounted on said member, elements extending upwardly from said legs and adapted to move therewith, screw-eyes located in said leg supporting member and a continuous cord passing through said eyes and secured to said elements, whereby a forward movement of one leg will effect a rearward movement of the other leg.

2,171,282
COUPLING PLATE FOR WHEEL PRESSES
Henry Wochner, Rock Island, Ill.
Application January 9, 1936, Serial No. 58,306
1 Claim. (Cl. 144—288)



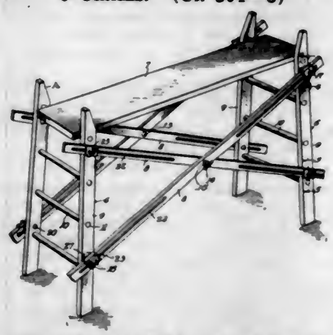
In a universal coupling plate for wheel presses, a disk provided in each of its faces with a series of radial T-channels, bolts provided with heads for slidable engagement within said channels, spacer blocks mounted on said blocks and having portions also slidable along said channels, adapted to hold an object to a wheel hub with a laterally extending flange and a certain angular spacing of bolt-holes therearound in spaced relation with said disk, and means for connecting said wheel hub on said spacer blocks with said bolts, the channels in one of said faces being radially divergent from those in the other face, and varying in angular position therewith to conform to a different angular spacing of bolt-holes in another type of wheel hub.

2,171,283
BRAKE TESTING APPARATUS FOR MOTOR VEHICLES
Henry Wochner, Rock Island, Ill., assignor to Bear Manufacturing Company, Rock Island, Ill.
Application August 12, 1936, Serial No. 95,543
6 Claims. (Cl. 73—51)



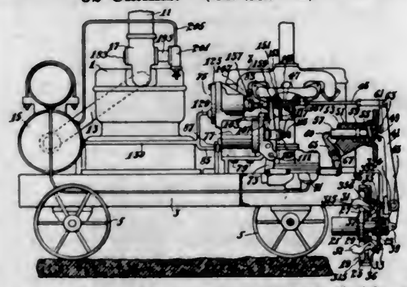
1. A brake testing apparatus, comprising a ground frame, two pairs of tread-plates supported for movement on said ground-frame, adapted to receive the front and rear wheels of a motor vehicle simultaneously and respond to the action of the brakes applied to said wheels, an equalizing system uniting said tread-plates, including equalizing bars uniting said pairs of tread-plates and an equalizing bar operatively connected with said first-named bars, means for holding said tread-plates and equalizing system yieldably in inactive position and returning the same thereto after being actuated, indicating means connected with said first-named bars, and indicating means connected with said last-named bar, to show the relative action of the two pairs of wheels.

2,171,284
SCAFFOLD
Gustave A. Wortelmann, Chicago, Ill.
Application January 14, 1938, Serial No. 184,911
6 Claims. (Cl. 304—3)



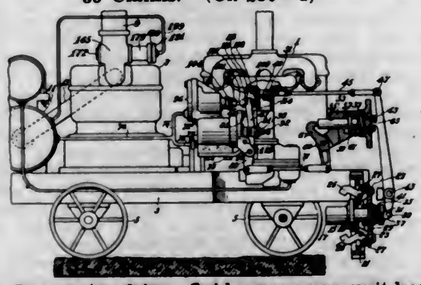
1. A collapsible scaffold comprising in combination a pair of opposed ladders adapted when the scaffold is in its operative position to stand substantially vertically and in spaced relation, a platform forming board adapted to extend horizontally between the ladders and to have the ends thereof rest on the rungs of the ladders, a pair of crossed braces extending between the ends of certain of the side pieces of the ladders and having a pivot for the crossed central portions thereof, connections in the form of nut equipped bolts on the ends of said certain side pieces of the ladders and longitudinal bolt receiving slots in the ends of the braces, adapted normally to connect the braces to the ladders so that the former hold the latter in their operative position and upon loosening of the nuts to permit the ladders and braces to be shifted together into an inoperative or collapsed position, and readily releasable clamping means applied to the pivot and operative to clamp together in fixed relation said central portions of the braces and hold them in place when the ladders are in their operative or inoperative position.

2,171,285
COMPRESSOR REGULATOR
Charles S. Baker, Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application August 25, 1937, Serial No. 160,819
32 Claims. (Cl. 230—4)



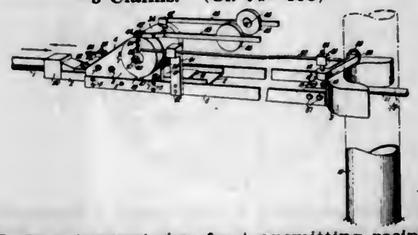
1. A regulator for a motor driven fluid compressor having a speed governor, a pressure responsive device for controlling and varying the speed setting of the governor in accordance with the variations of the discharge pressure of the compressor while the compressor is loaded, means to unload the compressor at a predetermined maximum discharge pressure and to reload the compressor at a predetermined low discharge pressure, and means to lock said pressure responsive device at a predetermined high discharge pressure of the compressor until a predetermined minimum discharge pressure is reached.

2,171,286
COMPRESSOR REGULATOR
Charles S. Baker, Corning, N. Y., assignor to Ingersoll-Rand Company, Jersey City, N. J., a corporation of New Jersey
Application February 16, 1938, Serial No. 190,799
35 Claims. (Cl. 230—4)



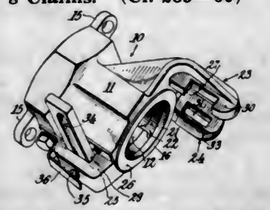
1. In a motor driven fluid compressor unit having a motor speed governor, a pressure responsive regulator to control and vary the speed setting of the governor upon variation of the discharge pressure of the compressor below a predetermined high discharge pressure, and means to vary the quantity of fluid admitted to the compressor between a maximum and a minimum quantity upon any variation in the discharge pressure of the compressor above said predetermined high discharge pressure.

2,171,287
OIL WELL PUMPING TRANSMISSION
Charles G. Boone, Tulsa, Okla., assignor to Gustin-Bacon Manufacturing Co., Kansas City, Mo., a corporation of Missouri
Application June 17, 1937, Serial No. 148,697
5 Claims. (Cl. 74—593)



5. In a transmission for transmitting reciprocating motion a constantly reciprocating driving member, an intermittently reciprocating driven part, means for connecting said driving member to said driven part in response to a predetermined number of reciprocations of said driving member relative to said driven part, and means for disconnecting said driving member from said driven part in response to a predetermined number of reciprocations of said driven part.

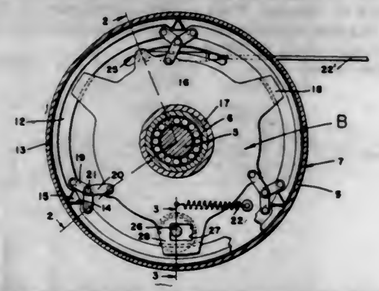
2,171,288
COUPLER FOR TRAIN PIPES
Frank W. Dearborn, Brooklyn, N. Y., assignor to Gold Car Heating & Lighting Company, Brooklyn, N. Y., a corporation of New York
Application August 18, 1937, Serial No. 159,633
8 Claims. (Cl. 285—60)



2. A coupling member comprising a body having a fluid passage extending therethrough with a seat at one of its ends adapted to cooperate with an opposing similarly seated end of a reciprocal coupling member to form a leak-tight joint; a pair of spaced locking arms formed on the outer side of the body and projecting beyond its seated end parallel to the axis of the body whereby to overlap the body of a reciprocal coupling member, said arms having registering transverse slots near their free ends for cooperation with a transversely disposed wedge of a reciprocal coupling member, one of said slots being open along the inner face of its arm and the other being closed along the like face of its arm; a heel formed on the outer side of said body opposite said locking arms, said heel having a transverse opening, and being slightly lesser in width than the spacing between said locking arms whereby it may lie between similar arms of a reciprocal coupling member; and a locking wedge of tapering width extending through the transverse opening in the

heel and adapted to be driven into the transverse slots in the locking arms of a reciprocal coupling member to draw the two together.

2,171,289
VEHICLE BRAKE
Howard G. Eakin, Milwaukee, Wis.
Application July 28, 1937, Serial No. 156,182
1 Claim. (Cl. 188—78)



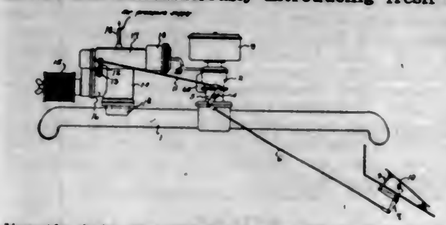
In a vehicle brake, a brake drum, a back-plate, arcuate brake shoes arranged within the drum and radially movable toward and away from the inner surface thereof, having inwardly extending flanges, said shoes forming a circle having a circumference substantially equal to the inner circumference of the drum, an operating disc rotatably mounted in the drum confined between the back-plate and the drum, interengaging means between the disc and the shoes for preventing lateral shifting of the shoes relative to one another and to the disc including the inwardly directed flanges on the shoes and slotted guide arms on the disc receiving the flanges, spring means normally tending to rotate the disc in one direction, and toggle links operatively connecting the adjacent ends of the shoes together and to the disc, the links being pivotally connected to the extreme outer ends of the shoes.

2,171,290
METHOD OF MAKING CLAY PRODUCTS
Floyd B. Hobart, Columbus, Ohio, assignor to Battelle Memorial Institute, Columbus, Ohio, a corporation of Ohio
No Drawing. Application January 14, 1937, Serial No. 120,614
5 Claims. (Cl. 106—21)

1. The method of making a ceramic product which comprises making a suspension of ceramic material in water wherein the ceramic material has been selected because of its ability to effect gelation of a soluble silicate to be subsequently introduced and wherein the suspension has a pH value suitable for attainment of gelation at a desired time, and adding the soluble silicate in powdered form to bring about gelation and consequent conversion of the suspension from a liquid to a solid phase.

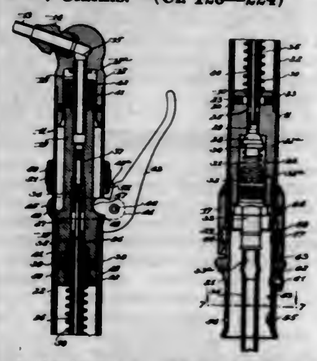
2,171,291
COMBINED CARBURETOR AND FUME ELIMINATOR INNERLOCK FOR INTERNAL COMBUSTION ENGINES
Edward G. Parvin, Roselle, N. J., assignor to National Pneumatic Company, New York, N. Y., a corporation of West Virginia
Application November 17, 1938, Serial No. 240,948
10 Claims. (Cl. 123—124)

1. In a system of the type described the combination with the intake manifold of an internal combustion engine and a carburetor connected thereto having a vacuum operated economizer and accelerating piston assembly therein, of means for simultaneously introducing fresh air



directly into the intake manifold of the engine when the throttle valve of the carburetor is at or moved towards idling position and the engine is operating at greater than idling speed, and locking the economizer and accelerating piston assembly of the carburetor against movement.

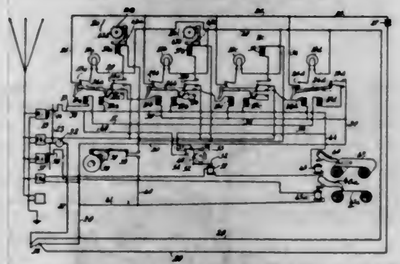
2,171,292
FLUID CONTROL DEVICE
Alphonse F. Pieper, Brighton, N. Y.
Application February 3, 1937, Serial No. 123,781
7 Claims. (Cl. 128—224)



2. In a syringe, a casing having a nozzle thereon at its outer end, a tubular unit within the casing comprising inner and outer communicating sections, said outer section communicating with the nozzle and being enclosed within the casing and movable longitudinally therein and relative to the inner section, valve means within the casing normally closing the inner section, said valve means being operated by movement of the outer section longitudinally within the casing in one direction, and means on the casing for moving the outer section longitudinally therein, said inner and outer sections and said valve means being removable from the casing as a unit through the inner end thereof.

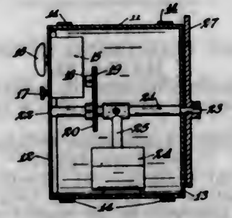
6. A dental hand instrument comprising the combination of a casing member and a tubular member telescopically mounted in said casing member said tubular member including a valve, means for coupling the casing member and tubular member together comprising quickly releasable locking parts between said casing member and tubular member, and a valve operating element extending through the casing member from the outside thereof and into engagement with the valve, said parts and said valve being so constructed and arranged that the casing member and the tubular member may be telescopically assembled when the members are in any axial relation with each other and the valve actuated when the members are in any such axial relation.

2,171,293
RADIO NAVIGATIONAL GUIDE SYSTEM
Rubino Plastino, New York, N. Y., assignor to Transoceanic Aerial Control System, Inc., Wilmington, Del., a corporation of Delaware
Original application April 27, 1935, Serial No. 18,581. Divided and this application March 19, 1937, Serial No. 131,809
13 Claims. (Cl. 250—2)



1. In an aerial navigation system including a plurality of ground stations located at intervals along a desired route and a plane in flight along the route, means at each of said stations for emitting a vertically directed beam of radiant energy, a panel board on said plane having a plurality of lights thereon each representing one of the ground stations, a radio receiver on said plane attuned to the wavelength of the vertically directed beams, and means actuated by the energy output of said receiver for turning off and on said lights thereby to record the passage of the plane over the ground stations.

2,171,294
POWER AND STEERING MECHANISM
Douglas D. Rase, Robbinsdale, Minn.
Application September 9, 1938, Serial No. 229,125
5 Claims. (Cl. 46—213)



5. In an automotive device, a rotary self-propelled power unit, a steering device connected to said power unit, said steering device being inoperative during rotary movement of said power unit, and the connection between said power unit and said steering device being movable to actuate said steering device, and said power unit including means for operating said connection and said steering device only when said rotary power unit has been halted.

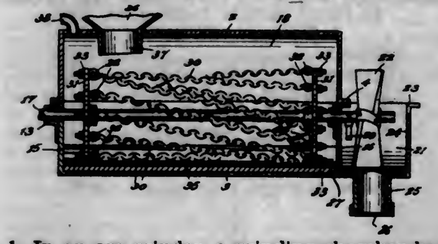
2,171,295
CARD AND DICE GAME
Clarence Ray Shultz, Independence, Kans.
Application February 23, 1938, Serial No. 192,122
8 Claims. (Cl. 273—102.1)

1. In apparatus of the character described, a rotatable member, said member having faces thereon, means for imparting a number of rotations to said member, said last-named means acting with substantially the same force each time that it acts and automatic means cooperating with said rotation imparting means for varying the number of rotations of said member and the stopping point of one of said faces in a display position, whereby accurate prediction of such displayed face cannot be made.



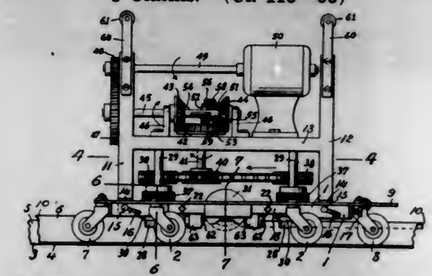
7. In a target game, a target, means for mounting said target for movement upon being struck by a projectile, a purality of rotatable members, means for rotating said members in succession, means responsive to the movement of said target for actuating said rotating means, the construction being such that successive movements of the target will repeatedly actuate said rotating means to rotate said rotatable members in succession.

2,171,296
ORE GRINDER
John Youngman and Harry R. Culp, Whitman County, Wash.
Application April 28, 1938, Serial No. 204,887
4 Claims. (Cl. 83—11)



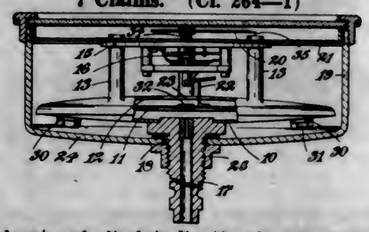
1. In an ore grinder, a grinding chamber having means for feeding ore and water into the same, a separating chamber communicating with one end of said grinding chamber, said separating chamber having metal gathering means at its bottom and an overflow, a rotary shaft extending longitudinally through said grinding chamber with its end portions journaled through end walls of the grinding chamber and one end portion extending into said separating chamber, grinding means carried by said shaft within the grinding chamber, and an agitator on the separating chamber having a hub fixed to the projecting end portion of said shaft and blades radiating from said shaft and pitched to impel water and ground ore toward the grinding chamber.

2,171,297
SHEET METAL SEAMING MACHINE
Andrew Zahner and Leo W. Zahner, Kansas City, Mo.
Application September 16, 1937, Serial No. 164,169
8 Claims. (Cl. 113—55)



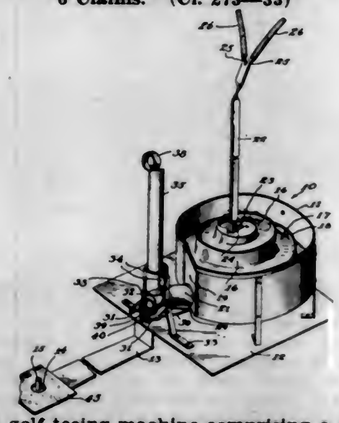
1. In an apparatus of the kind described, a carrier adapted for travel parallel with two side by side flanges of different height, of two roofing sheets, supporting means on said carrier, two rotary wheels on said supporting means adapted to embrace and have traveling engagement with opposite sides of said flanges, said wheel engaging the higher of said flanges having means, when said carrier travels parallel with said flanges, for bending the upper part of the higher flange laterally over the other flange, means on said supporting means at the rear of said two wheels for engaging and bending downwardly said bent part, and two rotary wheels on said supporting means at the rear of said last named means adapted to engage said bent flange at opposite sides of said flanges and bend said bent part against the other flange to form a single seam, said two rear wheels corresponding in shape and relative disposition to each other to said two first named wheels respectively, whereby said carrier may be operated in reverse directions without being reversed.

2,171,298
RATE OF CLIMB INDICATOR
Ralph Harrison Archbald, Burgh Heath, England
Application March 22, 1938, Serial No. 197,508
In Great Britain October 28, 1937
7 Claims. (Cl. 264—1)



1. A rate-of-climb indicating instrument of the type described comprising in combination an instrument casing hermetically sealable to provide a self-contained air capacity, a fluid-pressure chamber located within the instrument casing and constituted by a dished back plate and a flexible diaphragm secured to said plate and extending over its concavity, the chamber being formed with a plurality of bleed holes each of predetermined cross-sectional area and minimum length, providing restricted access between the interior of the chamber and the interior of the instrument casing, a pipe conduit extending through the instrument casing and at its inner end communicating with the interior of the fluid-pressure chamber through an aperture in the back plate and at its outer end opening to atmospheric pressure, and indicating means so operatively connected to the diaphragm as to move proportionately to pressure-responsive movements of the diaphragm.

2,171,299
GOLF BALL TEEING DEVICE
Clay C. Beckett, Washington, D. C.
Application April 14, 1938, Serial No. 202,069
6 Claims. (Cl. 273—33)



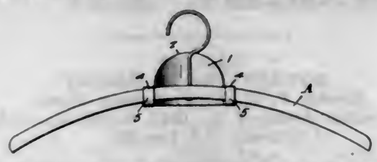
1. A golf teeing machine comprising a shallow casing having an upstanding side wall and a cone-shaped bottom, a hand-operable lever pivotally mounted on said casing and extending through said bottom at the apex thereof, said lever being arranged extending vertically above said side wall to a height convenient for hand operation, said side wall being provided with means defining an outlet for golf balls, a chute movable to guide balls leaving the outlet, and link means connecting said lever with said chute for movement of said chute by said lever.

2,171,300
METHOD OF PRODUCING FERROUS SHEET MATERIAL
Alfred J. Castle, Chicago, Ill., assignor to Inland Steel Company, Chicago, Ill., a corporation of Delaware
No Drawing. Application October 26, 1936, Serial No. 107,735
11 Claims. (Cl. 29—18)

4. The method of producing cold reduced ferrous sheet material to be coated with a metal coating which comprises cold rolling ferrous strip material into long strip sheet form to a gage approximating the final gage of the finished material, coiling the material, annealing the cold reduced material in coil form, skin rolling the annealed material in uncoiled condition and in strip sheet form on rough surfaced rolls, and rolling the skin-rolled material on smooth surfaced rolls.

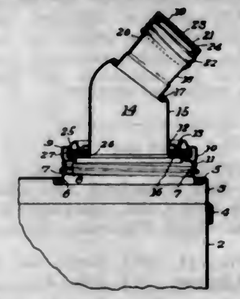
2,171,301
COLLAR FORM ATTACHMENT FOR GARMENT HANGERS
Oscar Christensen and Edward A. Sperry, Redlands, Calif.
Application May 18, 1938, Serial No. 208,666
1 Claim. (Cl. 223—92)

A collar form attachment for a garment hanger, comprising a substantially semi-circular body curved from side to side in substantially concavo-convex formation to follow the natural shape of the collar of a garment, vertically arranged ears formed on the lower corners of the body for disposal laterally thereof, horizontal portions formed on the upper ends of the ears and forwardly directed therefrom for disposal at right angles thereto, and tongues formed on the outer



ends of the horizontal portions and depending therefrom for cooperation therewith and with the ears for disposal about the garment receiving member of the hanger for securing the body to the garment receiving member upon opposite sides of the suspending means thereof for disposing the body in vertical spaced shielded relation with respect to the suspending means for spacing the collar therefrom.

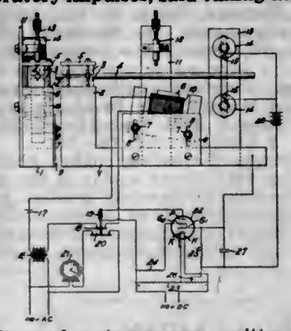
2,171,302
GASKETED FITTING
Guy O. Conner, Wheeling, W. Va., assignor to Wheeling Steel Corporation, Wheeling, W. Va. a corporation of Delaware
Application October 8, 1938, Serial No. 234,002
10 Claims. (Cl. 221—24)



1. A gasketed fitting comprising a hollow fluid conducting member having an outwardly projecting flange, a gasket lying against a face of the flange, and a retainer separate from the flange for holding the gasket in place on the flange, the retainer engaging the gasket at the outer portion thereof, the internal diameter of the portion of the retainer engaging the gasket being substantially greater than the external diameter of the hollow fluid conducting member.

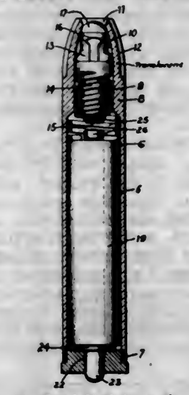
2,171,303
RESONANT VIBRATION FATIGUE TESTER
Alfred V. de Forest, Marlboro, N. H., assignor to Research Corporation, a corporation of New York
Application October 30, 1937, Serial No. 172,045
15 Claims. (Cl. 73—51)

11. In a vibration fatigue testing machine, the combination with a base having a standard at an end thereof, means on said standard for clamping an elastic specimen, and means for imparting vibratory impulses to the specimen, of means carried by said base for measuring the amplitude of vibration of the specimen, and means for tuning the specimen to the frequency of the vibratory impulses, said tuning means com-



prising damped spring means positioned to contact said specimen upon vibration thereof.

2,171,304
FLASHLIGHT
Albert Gelardin, New York, N. Y.
Application October 29, 1936, Serial No. 108,185
1 Claim. (Cl. 240—10.68)



A translucid flashlight casing enclosing a filament containing lamp, an electric dry cell both insertable from the base end thereof and resilient means forming an electrical contact between one pole of the dry cell and one terminal of the lamp but normally holding the other terminal and pole in spaced non-conducting relation, said casing comprising a generally tubular translucid portion of sufficient length to receive the dry cell, a bulb enclosing light diffusing head integral therewith having a portion of progressively decreasing diameter terminating in a light transmitting opening smaller than the diameter of the lamp bulb, thus forming a seat to engage and retain the lamp therein, which lamp bulb will project a clear pencil of light through said opening, and a dry cell retaining threaded closure for the base end of the tubular portion to hold the lamp and dry cell within the casing when inserted through said base end said tubular portion being formed with internal threads at the base end to retain the threaded closure, said closure also having a central aperture, and a plug having a battery engaging portion and a finger engaging element, said finger engaging element projecting through said aperture whereby the plug may be pressed inwardly into the casing against the action of said resilient means to close the flashlight circuit.

2,171,305
VULCANIZATION OF RUBBER
Marion W. Harman, Nitro, W. Va., assignor, by mesne assignments, to Monsanto Chemical Company, St. Louis, Mo., a corporation of Delaware
No Drawing. Original application January 22, 1932, Serial No. 588,227. Divided and this application June 7, 1935, Serial No. 25,513
2 Claims. (Cl. 18—53)

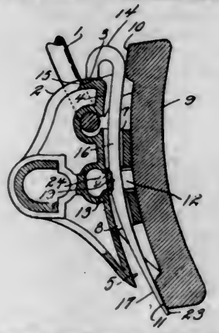
1. The process of treating rubber which comprises heating rubber and sulfur in the presence of a vulcanization accelerating product comprising a reaction product of substantially equimolecular proportions of monochloracetamid and the sodium salt of mercapto-benzo-thiazole as a constituent thereof.

2,171,306
WELDING ROD
Glenn V. Ireland, Wauwatosa, Wis.
No Drawing. Application October 17, 1936, Serial No. 106,162
16 Claims. (Cl. 219—8)

1. A welding electrode comprising a rod of ferrous material of low carbon content having secured to the surface thereof a coat comprising borax as the principal ingredient but not to exceed 50% of the composition coating, bicarbonate of soda in a substantial amount, oxide of iron in a substantial amount, said bicarbonate of soda and oxide of iron being of substantially the same amount and together not greater than 50% nor less than 25% of the composition coating, and a binder.

15. A process of welding cast iron which comprises depositing a single coat of soft ferrous metal on the parts to be welded, without preheating those parts, from an electrode of ferrous material of low carbon content covered by a coating containing a flux as the principal ingredient, a ferrous composition, bicarbonate of soda and a deoxidizing agent secured on said rod by a non-carbonaceous binder whereby the formation of a substantial amount of white iron in contact with the welded surface will be prevented so that said weld may be easily machined.

2,171,307
BRAKE SHOE KEY ANCHORAGE
George F. Jackson, Toledo, Ohio
Application August 5, 1938, Serial No. 223,166
4 Claims. (Cl. 188—243)



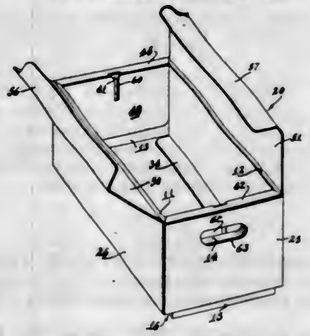
1. Brake construction of the class described including a brake head and a brake shoe having interfitting lugs providing a series of aligned eyes, and a brake shoe key having a return bend with its terminus against the brake head and its body therefrom extending through said eyes to assemble the brake shoe with the brake head, said key having a uniform cross-section body from said head to a seat at approximately mid-length position thereof, said seat adapted to engage one of the interfitting lugs but normally directed through the head a different distance than such lug so engagement therewith places the key under tension between the return bend terminus and the seat.

2,171,308
ROTARY TOOTH BRUSH
George F. W. King, Helena, Mont.
Application January 26, 1937, Serial No. 122,435
1 Claim. (Cl. 74—89)



A rotary toothbrush comprising a sleeve, a shaft journaled in said sleeve and fashioned with a hollow section and adapted to have a work implement secured thereto, a cylinder slidably mounted on said sleeve and provided with feed threads formed in the bore thereof, a feed nut fixed to said shaft and meshing with said threads, a coil spring extending into said hollow section of said shaft and bearing against one end of said cylinder for rotating said implement upon expansion of said spring from compressed condition in said section, said sleeve and cylinder manually actuatable towards each other for rotating said implement in the opposite direction and compressing said spring, and a guide rod carried by said cylinder and extending through said spring into said section to maintain said spring in aligned relation with said section.

2,171,309
SHIPPING CONTAINER
Willis F. Luce, San Francisco, and Clarence C. Kennedy, Palo Alto, Calif., assignors to Owens-Illinois Pacific Coast Company, a corporation of Delaware
Application May 11, 1938, Serial No. 207,188
12 Claims. (Cl. 229—6)



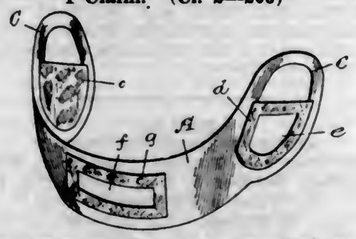
2. A shipping container comprising in combination a box-like framework having an open top and including opposed side walls, opposed end walls, and a bottom; a removable covering on said framework including panels substantially covering the outer sides of the side and end walls, the upper edges of the end walls, and the inner sides of the end walls; and means for fastening one of the panels which covers the outer side of an end wall to one of the panels which covers the outer side of a side wall.

2,171,310
SHOEHORN
Edward B. Morgan, Philadelphia, Pa.
Application February 14, 1939, Serial No. 256,340
7 Claims. (Cl. 223—118)



1. A shoe-horn including a flexible leather pocketed type handle, and a flexible wire shoe-engaging element slidable therein, said handle having a row of stitches for retaining said element in the pocket, and said element having smooth surfaces to facilitate its sliding movement with respect to said stitches.

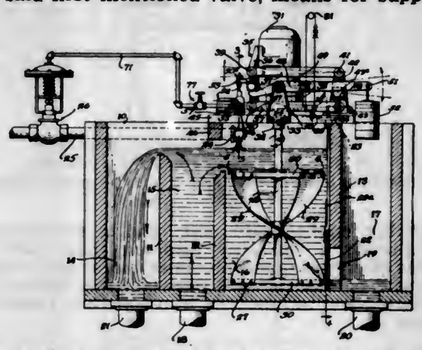
2,171,311
EAR AND MOUTH TELEPHONE ATTACHMENT
Joseph Moses, Toronto, Ontario, Canada
Application January 9, 1939, Serial No. 249,951
1 Claim. (Cl. 2—206)



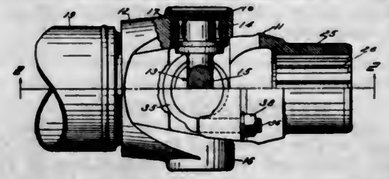
In a device of the class described, a band formed and adapted to engage with the contour of the lower portion of the face, loops formed on the terminals of said band, said loops adapted to engage over the ears of the wearer for maintaining the device in position, textile pads secured over a portion of said loops, one of said pads adapted to muffle noises to the ear, the other of said pads having an opening therein for the use of an ear phone, an aperture formed in the centre of said band for speaking into the mouthpiece of a phone, a textile band cemented around the edge of said aperture for modulating the voice when passing through the aperture.

2,171,312
CONSISTENCY CONTROL DEVICE
Sidney E. Meyers, Lockport, N. Y., assignor to Control Equipment Corporation, Buffalo, N. Y., a corporation of New York
Application May 6, 1935, Serial No. 19,981
7 Claims. (Cl. 92—46)

7. In a device for controlling the addition of a modifying medium to a fluid suspension, the combination with a supply conduit for said medium and a valve in said conduit, said valve having an expansion chamber, of an element which is immersed in said suspension, means for rotating said element, said element being movable in response to the thrust of said suspension against it, the magnitude of such movement varying in accordance with the consistency of said suspension, a pilot valve having an inlet chamber and an outlet, a pipe connecting the inlet chamber of said pilot valve and the expansion chamber of said first mentioned valve, means for supplying a fluid to the inlet chamber of said pilot valve at a predetermined pressure and a substantially uniform rate and means actuated by the movement of said element for regulating the escape of the fluid from the inlet chamber of said pilot valve, whereby to control said first mentioned valve and permit the modifying medium to be added to the fluid suspension at a rate which will reduce its consistency to a predetermined value.



2,171,313
UNIVERSAL JOINT
John W. B. Pearce, Toledo, Ohio
Application October 2, 1935, Serial No. 43,266
2 Claims. (Cl. 64—17)

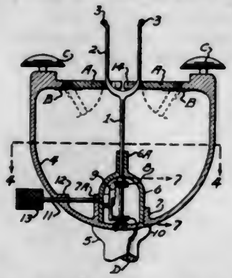


1. In a universal joint, a yoke member including a pair of arms terminating in spaced relation, the spaced extremities of said arms being provided with aligned laterally-open recesses, stop shoulders formed on said arms beyond and overhanging said recesses, a spider having a pair of trunnions having cups including bearings mounted thereon and seated within said bearing recesses and against said shoulders, U-shaped clamps embracing said cups and contacting the major area of one side of each of said cups and the area opposite the bottom wall of each cup and having threaded ends passing through said arms for retaining said cups within said recesses under said shoulders, and nuts threaded on said ends to apply a clamping force exerted largely through the bottom wall of each cup whereby distortion of the cup is avoided.

2,171,314
SMOKING PIPE CLEANING DEVICE
Chalmer W. Ray, Detroit, Mich.
Application June 17, 1938, Serial No. 214,283
4 Claims. (Cl. 131—232)

1. In a pipe cleaning device adapted for

smokers, a bowl having trap doors and a passage in the center of same and intermediate said doors, a cup rising from the interior bottom of said bowl, a hood with a sleeve portion extending upwardly therefrom, said hood adapted to de-

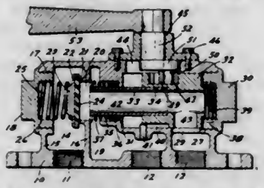


tachably engage said cup; and a mechanism comprising a vertically disposed shaft, and a series of prongs upon the upper end of said shaft, the end of each of said prongs being outwardly deflected and terminating in a spherical enlargement.

2,171,315
METHOD OF DESTROYING INSECTS AND MICROORGANISMS
Ivar Rennerfelt, Djursholm, Sweden
No Drawing. Application September 1, 1934, Serial No. 742,449. In Sweden September 4, 1933
5 Claims. (Cl. 43—124)

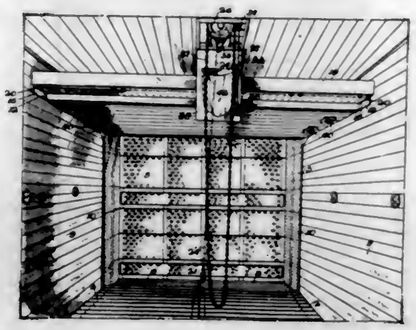
1. A method of killing insects and microorganisms in a substantially closed space which comprises introducing hot non-poisonous gases substantially composed of a mixture of CO_2, H_2O, and air, creating a blast of said gases, initially and continually directing said gas downwardly while the gas is at its highest temperature, and causing circulation thereof until the entire space is substantially uniformly filled with said gas at lethal temperature.

2,171,316
MULTIPLE-WAY VALVE
Paul Van Sittert, Cleveland Heights, Ohio, assignor to The Cleveland Pneumatic Tool Company, Cleveland, Ohio, a corporation of Ohio
Application January 21, 1937, Serial No. 121,623
3 Claims. (Cl. 277—20)



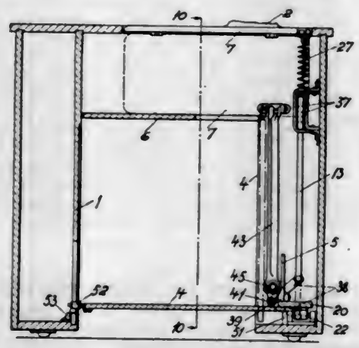
1. In a device of the character described, a casing having a wall formed with an orifice extending therethrough, a valve seat, a valve engageable with said valve seat for closing said orifice, an element slidable within said casing having a port extending through one end thereof, said element being engageable with said valve for closing said port, spring means associated with said valve and element for effecting the engagements aforesaid, means for shifting said element in valve open position relative to said orifice while said port remains closed by said valve and in port open position while said orifice remains closed by said valve, and means responsive to the action of said spring means for locking said element in either of said positions.

2,171,317
REFRIGERATOR CAR
George A. Steuber, Penfield, N. Y., assignor to Despatch Shops, Inc., a corporation of New York
Application April 10, 1939, Serial No. 267,134
5 Claims. (Cl. 105—376)



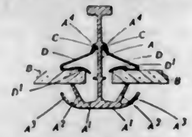
1. In a refrigerator car, an ice bunker, tracks extending vertically in front of the bunker, and horizontally near the ceiling of the car, a unit bulkhead movable on said tracks, a lifting hoist mounted between the car ceiling and roof, a cable connecting said hoist and bulkhead to move the bulkhead on said tracks, and means to hold the bulkhead on the horizontal tracks against accidental movement.

2,171,318
SEWING MACHINE TABLE
Torine Charlotta Torines, Stockholm, Sweden
Application October 8, 1937, Serial No. 168,104
In Sweden February 5, 1936
10 Claims. (Cl. 312—30)



3. In a sewing machine table, the combination of an approximately horizontal top section including a movable sewing machine supporting member adapted to be moved from a position in which the sewing machine mounted thereon is exposed and in operative position, to a position in which the sewing machine is enclosed within said top section and in inoperative position; two spaced side sections supporting said top section at opposite ends thereof respectively; a sewing machine actuating treadle adapted to be moved to an inactive upright position in close relationship to one of the side sections, or to an active approximately horizontal position in the space between the side sections; and connecting means between said sewing machine supporting member and said treadle whereby said treadle is automatically moved to its inactive upright position when said sewing machine is moved to its enclosed inactive position.

2,171,319
GLAZING BAR
Jack Williams, London, England
Application August 12, 1938, Serial No. 224,597
In Great Britain August 27, 1937
3 Claims. (Cl. 108—16)

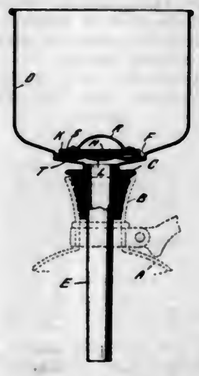


1. A glazing bar comprising a main member including a web having projecting laterally therefrom a longitudinally extending abutment adapted to be engaged by the lower face of a sheet of glass, a resilient clamping bar having an inner edge portion adjacent to a part of the web lying above the glass and a part extending from this inner edge portion towards and into contact with the upper face of the glass, a longitudinally extending narrow groove formed by parts rigid with the part of the web which lies above the glass and directed inwardly towards the upper face of the sheet of glass, the inner edge portion of the clamping bar being adapted to engage the groove and cooperate therewith to be bent inwardly towards the web whereby the reaction between the inner edge portion of the clamping bar and the inwardly directed face of the groove causes the part of the clamping bar lying between its upper edge and the point where it engages the glass to flex so that by reason of the resilience of the bar the part engaging the glass always tends to move inwards towards the web, said clamping bar being formed not only with a part which slopes from its upper inner edge portion away from the web to the point where it engages the glass but also with a lower part which extends from such point inwards towards the web along the face of the glass and beyond the edge thereof, said bar being pressed by its resiliency towards the glass and is so formed that its edge portion extending towards the web beyond the edge of the glass projects through the plane of the adjacent face of the glass and tends to assist in drawing towards the web the part of the clamping bar which engages the glass.

2,171,320
PROCESS OF PREPARING EXTRACTS OF SPLEEN AND LIVER
Carl Ludwig Lautenschläger and Willy Ludwig, Frankfort-on-the-Main, Germany, assignors to Winthrop Chemical Company, Inc., New York, N. Y., a corporation of New York
No Drawing. Application October 5, 1936, Serial No. 104,152. In Germany October 5, 1935
4 Claims. (Cl. 167—74)

1. The process for obtaining antitoxin which comprises extracting at a feebly acid reaction an animal organ of the group consisting of autolysed spleen and autolysed liver with an extracting agent selected from the group consisting of water, aliphatic organic solvents of a low molecular weight soluble in water and mixtures of these organic solvents with water, treating the solutions obtained with a ballast-eliminating agent of the class of heavy metal compounds and further purifying the resultant products by means of an organic solvent soluble in water, all process steps being carried out at a temperature below about 40° C.

2,171,321
COFFEE-MAKING APPARATUS
Theodore C. Miller, New York, N. Y.
Application June 17, 1937, Serial No. 148,642
2 Claims. (Cl. 53—3)

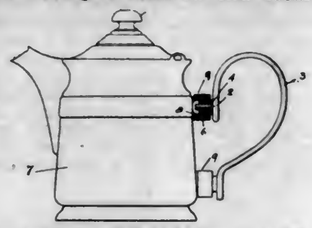


1. In a coffee making apparatus, a bowl provided with a depressed portion in the bottom thereof having a central opening connected with a discharge tube, the walls of said depressed portion being substantially at right angles to an annular flat portion connected with channels sloping to said central opening, retaining lugs extending inward from and spaced circumferentially of said walls at a uniform distance above said annular flat portion and a filter unit comprising two perforated parts arranged to clamp and support a filter paper therebetween, said filter unit having a radial flange provided with notches circumferentially spaced for cooperation with said lugs, said notches and lugs being arranged so that the outer periphery of said flange may be brought into engagement with the under sides of said retaining lugs for securing the filter unit in said depressed portion, sufficient space being allowed under said lugs for the filter paper to extend between said radial flange and said annular flat portion so as to form therebetween a substantially water-tight joint when said filter unit flange is secured under said lugs.

2,171,322
HOT LIQUID CONTAINER
Charles A. Rivard, Providence, R. I., assignor to Reed & Barton, Taunton, Mass., a corporation of Massachusetts
Application March 11, 1938, Serial No. 195,303
2 Claims. (Cl. 16—119)

1. A heat insulated connection between a handle and a container comprising an insulator resistant to heat transmission fixed to one of said connected parts, a rib on the insulator spaced from said connected part, a boss on the other of

said connected parts, and a sleeve secured to the boss and having a reduced end securing said



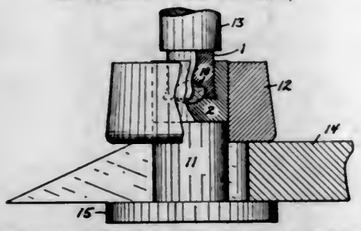
sleeve to said insulator between said rib and first named connected part.

2,171,323

DIE AND METHOD OF FORMING

Harry Clinton Wyland, Fort Wayne, Ind., assignor to General Cable Corporation, New York, N. Y., a corporation of New Jersey

Application October 29, 1927, Serial No. 229,774
22 Claims. (Cl. 76—107)



1. A compact for forming a die, consisting of two cavernous metallic members, the cavity in the larger of said members having an undercut portion, the other of said members having an extending portion about its cavity, said members being compressed together, one within the other, said extended portion being invested in said undercut portion, and a refractory die body encased thereby.

2,171,324

MANUFACTURE OF ARTIFICIAL SILK

Walther Zetzsche, Premnitz, and Johannes Giesen and Emmerich von Pongratz, Leuna, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application December 22, 1936, Serial No. 117,144. In Germany December 24, 1935
5 Claims. (Cl. 28—1)

1. Artificial silk of regenerated cellulose containing a catalytically hydrogenated liquid residue of the production of alcohol by a catalytic process, said residue comprising mixtures of unsaturated hydrocarbons with branched aliphatic carbon chains, branched chain lactones, branched chain higher alcohols and complicated organic compounds of unknown structure, said residue boiling between 100 and 350° C.

2,171,325

FINISHING TOOL

Harvey R. Hawgood, Cleveland, Ohio, assignor to The Lees-Bradner Company, Cleveland, Ohio, a corporation of Ohio

Application January 30, 1935, Serial No. 4,135
3 Claims. (Cl. 29—104)

3. A finishing tool comprising a plurality of toothed laminations of substantially uniform thickness throughout, each tooth of each lamination having two cutting edges on one side, the contacting teeth of alternate laminations having



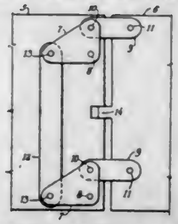
the cutting edges on opposite sides, said cutting edges projecting beyond the adjacent laminations.

2,171,326

CONNECTION FOR CONTINUOUS STRUCTURES

Roy E. Tarbet, Portland, Oreg.

Application February 14, 1938, Serial No. 190,438
7 Claims. (Cl. 14—16)
(Granted under the act of March 3, 1883, as amended April 30, 1928; 370 O. G. 757)



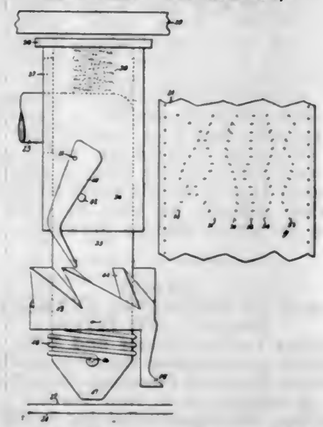
1. A connection for continuous structural units comprising two congruent rockers in spaced relation, each rocker having two lever arms, said rockers being correspondingly disposed and pin connected to one of said units, a rigid link having its ends pin connected to corresponding lever arms of said rockers, and parallel links each connecting the other lever arm of one rocker to the adjacent structural unit.

2,171,327

MULTIPLE RECORDER

Warren D. Anderson, Bridgeport, Conn., assignor to General Electric Company, a corporation of New York

Application October 3, 1936, Serial No. 103,884
12 Claims. (Cl. 234—67)



9. A recording instrument comprising, a record sheet, a stylus movable over said sheet in response to a measurement to be recorded, said stylus be-

ing normally out of recording contact with said sheet but momentarily movable into recording engagement therewith to produce measurement records, said stylus including a rotatable time-indicating marker, and means for moving said stylus into recording position at predetermined times and for simultaneously advancing the rotatable time-indicating marker thereof, each advance of said time-indicating marker being a measure of the time between recording operations and the records produced indicating the approximate hour at which made by the reason of said marker simulating the movement of a clock hand as regards its rotary position at different times and its extent and direction of movement when advanced.

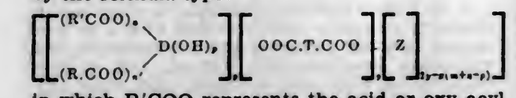
2,171,328

PROCESS FOR RESOLVING PETROLEUM EMULSIONS

Charles M. Blair, Jr., Webster Groves, Mo., assignor, by mesne assignments, to Petrolite Corporation, Ltd., a corporation of Delaware

No Drawing. Application December 12, 1938, Serial No. 245,230
8 Claims. (Cl. 196—4)

1. A process for breaking oil field emulsions of the water-in-oil type, characterized by subjecting the emulsion to the action of a demulsifying agent comprising a soluble polymeric subresinous product having a molecular weight of less than 100,000 and of the kind characterized by the formula type:



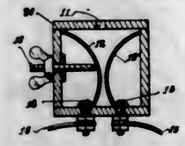
in which R'COO represents the acid or oxy-acyl radical obtained by dehydroxylation of a hydroxy detergent-forming acid; R.COO represents the acid or oxy-acyl radical of a non-hydroxy detergent-forming acid; D represents a polyhydric radical; T represents the hydroxy hydrocarbon substituted amino succinic acid radical, and Z represents an acidic hydrogen atom substituent; n represents 0, 1, 2, 3, 4, 5, or 6; n' represents 0, 1, 2, 3, or 4 with the proviso that $n+n'$ must equal at least 1; p represents 0, 1, 2, 3, or 4; m represents the number of hydroxyl radicals directly attached to D prior to esterification; x represents a number greater than 1 and not over 30; y represents a number greater than 1 and not over 180; and the ratio of x to y is within the limits of 1 to 6 and 2 to 1, respectively.

2,171,329

RAIN DETECTING MEANS

James Boone, Clinton, N. J.

Application February 7, 1938, Serial No. 189,102
2 Claims. (Cl. 200—52)



1. A rain detector of the character described, comprising a housing, a perforated cover on said housing, an insulating base forming a part of said housing, two curved metallic members mounted parallel on said base and forming in cross-section a concave air space narrow at the center, connecting means for wiring said metallic members to an electric circuit, and a screw adjustment operable from the outside, whereby one of said metallic members may be relatively adjusted with respect to the other member.

2,171,330

ROTARY CONVEYER GUIDE AND FORK FOR BARN CLEANING APPARATUS

Vincent L. Custer, Eau Claire, Wis.

Application August 22, 1938, Serial No. 226,040
3 Claims. (Cl. 198—108)



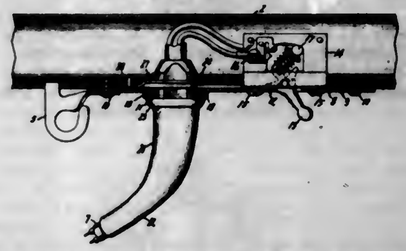
1. In combination with a trough having respective sections disposed at respectively different angles relative to the horizontal and material-conveying means disposed in said trough for movement longitudinally thereof and including a flexible elongated element extending longitudinally thereof, means for forking material and guiding said flexible element from one to the other of said sections comprising, a member mounted for rotation about a horizontal axis extending transversely of said trough and spaced substantially above the junction between said respective sections, a series of radially outwardly projecting elements carried by said rotatable member substantially in a vertical plane containing said flexible element, and outwardly opening, generally V-shaped elements carried by the free ends of the respective radial elements and adapted for straddling engagement with said flexible element so as to constitute a guide sheave therefor, said radial and V-shaped elements constituting rotary material-forking means.

2,171,331

ELECTRIC CORD ASSEMBLY FOR VACUUM CLEANERS OR THE LIKE

Elwood E. Folsom, Jr., Trumbull, Conn., assignor to General Electric Company, a corporation of New York

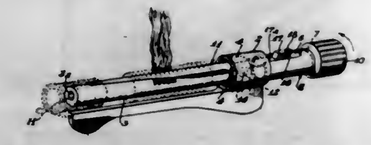
Application July 1, 1937, Serial No. 151,430
1 Claim. (Cl. 173—322)



In combination, a plate having an opening therein, an electric cord, a sleeve of flexible resilient material secured to and surrounding said cord and having a head located in said opening, said head having a collar thereon engaging said plate on one side and opposed grooves therein located on the other side of said plate, and a slidable yoke having arms of rigid material located in said grooves, said grooves being so located with respect to said collar that said arms will flex the resilient material of said head upon insertion in said grooves whereby said arms are held in engagement with said plate, said yoke and collar gripping the opposite sides of said plate

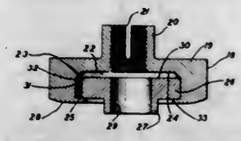
to secure said head in said opening with the electric cord passing through said opening, said sleeve having a tapered portion extending from the head along said cord to form a strain relief for said cord.

2,171,332
HAIR CURLING DEVICE
Samuel Freeman, New York, N. Y., assignor to William Finkelstein, New York, N. Y.
Application July 15, 1938, Serial No. 219,363
7 Claims. (Cl. 132—33)



1. A hair curling device comprising a body having a shank, the front end-wall of said shank having a longitudinal recess, said shank having a laterally offset bearing-sleeve, said bearing-sleeve having an internal shoulder, a turnable member having a collar intermediate the ends thereof, the rear end-wall of said collar substantially abutting said internal shoulder, said turnable member being turnable in said bearing, a clamping bar pivotally connected to the collar of the turnable member, said clamping-bar having a portion thereof located within said bearing-sleeve and also having a portion extending rearwardly of said bearing-sleeve and having a portion extending forwardly of said bearing-sleeve, said turnable member having a recess in which the adjacent part of said clamping bar is movable, a spring located in said recess and adapted to maintain the clamping bar in normal clamping position relative to said turnable member, a cap mounted on said turnable member and having a longitudinal channel which registers with the recess of said turnable member, said cap having its front end-wall substantially abutting the rear end-wall of the shank, the front end-wall of said turnable member having a longitudinal recess therein.

2,171,333
RELAY
Jacob R. Fry, Montclair, N. J., assignor to Bell Telephone Laboratories, Incorporated, New York, N. Y., a corporation of New York
Application July 31, 1937, Serial No. 156,653
4 Claims. (Cl. 175—336)

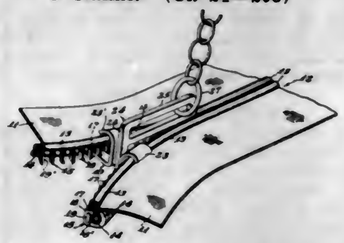


1. In an electromagnetic structure having a core and an armature cooperating therewith, a back stop for adjusting the air-gap between said armature and said core comprising a screw and a nut thereon, said nut having a cylindrical recess therein, the junction between the bottom and cylindrical walls of which is coved, and a cylindrical captive insert in said recess with which said armature engages having the junction between its inner face and cylindrical wall rounded off for sliding engagement with the coved portion of said recess.

2,171,334
ELECTRICAL INSULATION
Raymond M. Fuoss, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
No Drawing. Application March 10, 1937, Serial No. 130,097
6 Claims. (Cl. 106—15)

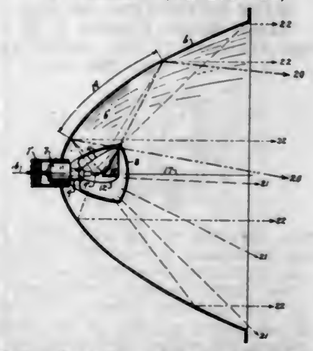
1. Electrical insulation with stable electrical losses at elevated temperature comprising a plasticized polymerized vinyl halide and lead resinate.

2,171,335
SLIDER
Joseph M. Gross, Rockville Centre, N. Y., assignor to Ideal Fastener Corporation, Brooklyn, N. Y., a corporation of New York
Application April 30, 1938, Serial No. 205,232
5 Claims. (Cl. 24—205)



5. In a slide fastener assembly, in combination, opposing stringers, each provided with a series of spaced fastener elements and a continuous bead extending longitudinally thereof, and a slider cooperating with said stringers, said slider having opposing wings, one of which wings is provided with a plurality of diverging channels leading to a merging channel for accommodating and guiding the fastener elements and the other of which wings is provided with sockets opposite to the merging channels of the first of said wings for accommodating and guiding the beads, said slider upon reciprocation serving to interlock and separate the fastener elements and the beads as they pass through the sockets on one of the wings of the slider and serving to guide the fastener elements entering the diverging channels on the other of the wings of the slider.

2,171,336
NONGLARE REFLECTOR
Silas B. Hayden, Seattle, Wash.
Application May 2, 1938, Serial No. 205,408
4 Claims. (Cl. 176—34)



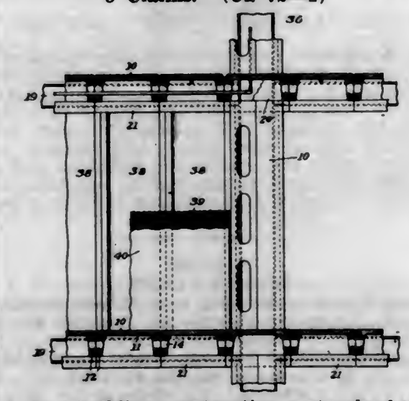
1. A lamp for automobile headlights, including a source of light, a reflector plate mounted within the lamp bulb in front of such source of light, said plate being provided with a reflecting face in front of and adjacent to the lighting source, the lower edge of said plate positioned at approximately the lower level of said source of light and the face of said plate inclined obliquely upward and outward from the source of light and adapted so as to intercept a portion of the direct rays from such light and to reflect the same upward and a majority of them backward, upon the inner reflecting surface of a headlight.

2,171,337
AIR CONDITIONED GARMENT
John Hellmann, Ernest L. Keyes, and Joseph A. Petrone, Pittsburgh, Pa.
Application October 17, 1938, Serial No. 235,386
2 Claims. (Cl. 128—144)



1. In a device of the class described, the combination of a garment in the form of a union suit including a separable hood adapted to completely inclose the body of the wearer; an air supply and means to distribute the air from said air supply within said garment, said distributing means comprising a two piece hollow body hingedly connected together and provided with a plurality of differently directed air outlets, one piece of said hollow body secured to the inner back of said garment and the other piece secured to the outer back of said garment.

2,171,338
BUILDING MEMBER AND CONSTRUCTION
Albert Henderson, Pittsburgh, Pa., assignor to William P. Witherow, Pittsburgh, Pa.
Application September 29, 1938, Serial No. 232,330
8 Claims. (Cl. 72—1)



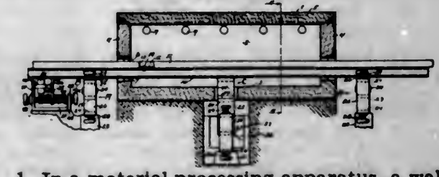
1. In a building construction, a standard structural steel frame including columns and girders extending between adjacent columns and supported thereby, and a floor composed of a plurality of precast reinforced cementitious slabs of channel section, each having flanges and a web, disposed side by side with their flanges extending downwardly and with their ends resting on adjacent pairs of said girders, the ends of the reinforcing projecting beyond the ends of each slab and being welded to the girders on which the slab rests.

2,171,339
CONTAINER FOR ROUGE AND THE LIKE
Arthur D. Julius, New York, N. Y., assignor to Miner's, Inc., New York, N. Y., a corporation of New York
Application November 2, 1938, Serial No. 238,361
6 Claims. (Cl. 132—79)



1. In a device of the class described, a casing containing rouge or the like, a cover for said casing to cover the exposed portion of the said rouge or the like, an applicator slidably mounted in said cover, one end of said applicator forming a wall of said cover.

2,171,340
MATERIAL PROCESSING APPARATUS
George E. Markley, Cleveland Heights, Ohio
Application January 28, 1938, Serial No. 187,543
12 Claims. (Cl. 263—6)

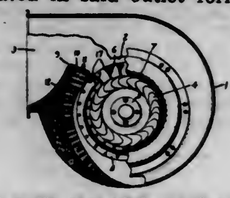


1. In a material processing apparatus, a walled container constructed to contain a material treating fluid medium, an elongated bed having a forwardly and rearwardly extending surface in the container for carrying thereon material to be treated by the fluid medium, spring means supporting the bed and reacting thereon and arranged to cause the bed to have a natural vibratory movement periodicity determined by the spring means, means arranged to apply to the bed periodically recurring force impulses the periodicity of which corresponds to the said natural periodicity of the bed to cause the bed to vibratingly move at substantially the said natural periodicity, the effective direction and magnitude of the force impulses being predetermined to cause the surface to repeatedly carry material thereon with it in the forward direction further than in the rearward direction to thereby cause the material to progressively move over the surface through the fluid medium in the container.

2,171,341
FAN CASING
Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application June 1, 1936, Serial No. 82,780. Divided and this application April 1, 1938, Serial No. 199,462
2 Claims. (Cl. 230—132)

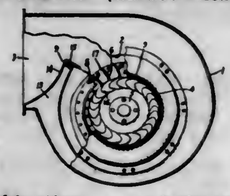
1. In combination, a centrifugal fan casing

having an inlet opening and an outlet opening, a centrifugal fan mounted in said casing, and a cut-off located in said outlet formed of perfo-



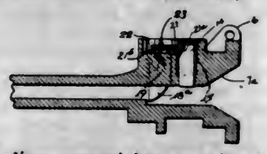
rated metal walls spaced from the outer walls of said casing, to provide a chamber and having the perforations presented to the air stream moved by the fan.

2,171,342
FAN CASING
Kenton D. McMahan, Schenectady, N. Y., assignor to General Electric Company, a corporation of New York
Original application April 1, 1938, Serial No. 199,462, which is a division of application Serial No. 82,780, June 1, 1936. Divided and this application March 1, 1939, Serial No. 259,188
2 Claims. (Cl. 230—132)



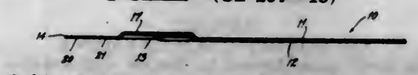
1. In combination, a centrifugal fan casing having an inlet opening and an outlet opening, a centrifugal fan mounted in said casing, means to rotate said fan, and a cut-off formed by a plate spaced from the wall of said casing having an opening at the inner end whereby the cut-off provides a column of air acting as a cushion and reduces the noise of operation of the fan.

2,171,343
CAR COUPLING
Louis Olcsvary, McClelland Town, Pa.
Application April 4, 1938, Serial No. 199,816
1 Claim. (Cl. 213—197)



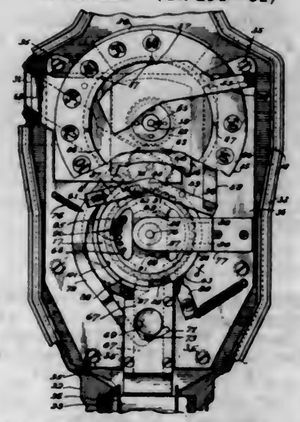
A car coupling comprising a pair of coupling heads and hollow stems for attaching the heads to the cars, one of said heads having a slotted coupler bar, a coupling pin mounted in the other of said heads in alignment with and adapted to engage the slot of said bar, said pin having a cross bar at the top thereof, a latch mounted for movement in a horizontal plane to support the pin in its upper position by engagement with said cross-bar, a gravity block disposed behind said coupling pin, and a lever mounted in said other of said heads and pivotally connected to said block to suspend said block in the path of movement of said coupler bar, said lever being loosely coupled to said latch by an arm of said lever to actuate said latch whereby it is moved away from the cross bar to drop the coupling pin when the coupler bar is moved into said hollow stem and actuates said block upwardly.

2,171,344
BIMETALLIC STRIP
Lawrence M. Persons, St. Louis, Mo., assignor, by mesne assignments, to Automatic Control Corporation, St. Louis, Mo., a corporation of Delaware
Application January 13, 1937, Serial No. 120,379
1 Claim. (Cl. 297—15)



A bimetallic blade comprising two contiguous strips, one of which is of greater length than the other to provide a free extension, and means integral with the free end and the bimetallic assemblage strengthening the free end and preventing curling of the end of the bimetallic blade, said means including a longitudinally extending rib, one part of which is in the free end and the other part of which is in the bimetallic assemblage.

2,171,345
PARKING METER
David C. Rockola, Chicago, and Alfred Vischer, Jr., Park Ridge, Ill.; said Vischer, assignor to said Rockola
Application March 27, 1936, Serial No. 71,088
10 Claims. (Cl. 194—61)

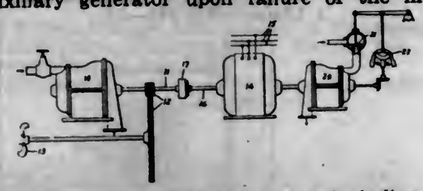


1. A parking meter comprising an indicator, an operable shutter, timer means for driving said indicator, a casing enclosing said indicator, shutter, and timer means and having sight windows for exposing said indicator to view from opposite sides of said casing, and token or coin control means for setting said indicator and energizing said timer means and for operating said shutter to conceal said indicator while it is being set.

2,171,346
POWER PLANT
Arthur Rosch, Brieselang, near Nauen, Osthavelland, Germany, assignor to General Electric Company, a corporation of New York
Application May 27, 1938, Serial No. 210,523
In Germany August 27, 1937
2 Claims. (Cl. 290—4)

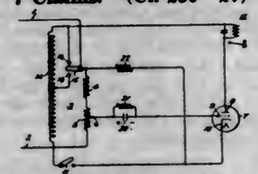
1. Power plant comprising a main prime mover,

an auxiliary generator for supplying electric energy to auxiliaries, means for normally driving the auxiliary generator from the main prime mover including a free-wheeling coupling connecting the auxiliary generator shaft to the main prime mover shaft, and means for driving the auxiliary generator upon failure of the main



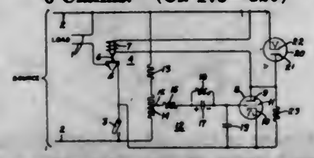
generator, said last named means including an elastic fluid engine coupled to the auxiliary generator and a speed governing mechanism for controlling the engine, said mechanism including a speed governor driven from the engine shaft and set for a speed below the normal operating speed of the main prime mover.

2,171,347
TIME DELAY RELAY
Elbert D. Schneider, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application July 24, 1937, Serial No. 155,518
7 Claims. (Cl. 250—27)



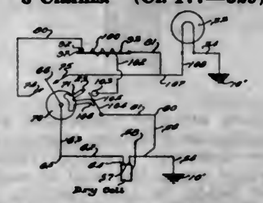
5. A time delay relay comprising a grid-controlled electron discharge device arranged to be energized from a source of alternating current, an anode-cathode circuit for said device including said source of alternating current, a capacitor connected with said grid and arranged to be charged by the grid current of said device and a single pole single throw switch in said anode-cathode circuit of said device for simultaneously closing said circuit and reducing the voltage applied to said capacitor.

2,171,348
ELECTRIC VALVE TIME DELAY RELAY
Elbert D. Schneider, Scotia, N. Y., assignor to General Electric Company, a corporation of New York
Application June 17, 1938, Serial No. 214,370
6 Claims. (Cl. 175—320)



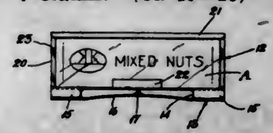
1. In combination, an alternating current circuit, a load circuit, a contactor mechanism having a pair of normally closed contacts and an actuating coil therefor, an electronic discharge device having an anode, a cathode and a control grid, the anode-cathode circuit of said discharge device being connected in series relation with said actuating coil to effect energization thereof from said source when in a conducting condition, and means tending to maintain said discharge device nonconductive comprising a voltage divider connected across said source and a capacitance connected between a point of said voltage divider and said control grid, a switch connected in series relation with said load circuit and said contacts across said source, said capacitance impressing on said control grid a negative potential tending to maintain said discharge device nonconductive for a predetermined interval after the closure of said switch.

2,171,349
ELECTRIC LANTERN
Lee M. Wiley, Marion, Ind., assignor to Delta Electric Company, a corporation of Indiana
Application July 20, 1935, Serial No. 32,327
3 Claims. (Cl. 177—329)



3. In a lantern, in combination, an electric light bulb, an electric dry cell, a pair of circuits each including said bulb and said dry cell, one of said circuits including a heat responsive current interrupter having a pair of contacts for interrupting said circuit and a heating coil, said coil being connected in parallel with said bulb, switch means for selectively closing either of said circuits to cause steady or intermittent energization of said light bulb, and means for interrupting flow of current to said heating coil when the other of said circuits is energized.

2,171,350
CARD HOLDER
Charles Ralph Anderson, Chicago, Ill.
Application December 17, 1936, Serial No. 116,281
7 Claims. (Cl. 40—16)

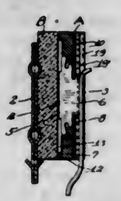


1. A device of the character described comprising, in combination, an upstanding card-holding portion, and a clip portion, the latter comprising a pair of spaced U-shaped members adapted to slip over the edge portion of a pan, one arm of each member being attached to the card-holding portion, and a strip connecting the other arms of said members and bowed to bear against one face of said edge portion of the pan.

2,171,351
LIGHTNING ARRESTER
John S. Baker, Chicago, Ill., assignor to Cook Electric Company, Chicago, Ill., a corporation of Illinois
Application January 20, 1938, Serial No. 185,799
8 Claims. (Cl. 175—30)

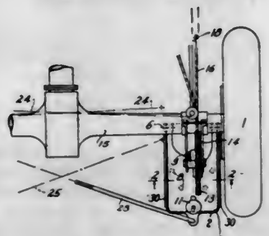
1. The method of assembling a discharger blade within an insulating block of a lightning arrester to provide a discharge gap of a predetermined

dimension comprising mounting the discharger blade upon a support projecting above a surface a distance equal to that of the discharge gap to be formed, then placing the insulating block over and upon the discharger blade so that the latter enters an opening extending through the insulating block and projects beyond the opening at the opposite side of the insulating block, applying a pressure against the insulating block at said opposite side until the insulating block has been forced against said surface, and applying a pressure against that portion of the discharger blade projecting beyond said opening to form a riveting connection between the discharger blade and the insulating block.



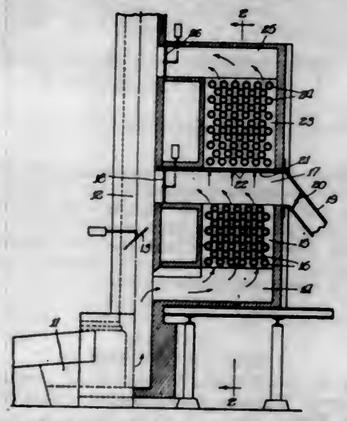
4. A lightning arrester comprising an insulating block having an irregular opening extending therethrough between opposed faces and a shoulder formed along the wall of said opening, a discharger blade in said opening having a shoulder formed thereon engaging said shoulder on said insulating block whereby to limit the position of said discharger blade in said opening to form a discharge gap at one of said opposed faces by the distance between said face and one edge of said discharger blade, a conductor plate positioned upon the other of said opposed faces, and means formed at the opposite edge of said discharger blade for locking the latter to said conductor plate.

2,171,352
EMERGENCY BRAKE APPARATUS FOR MOTOR ROAD VEHICLES
John Beavan, Ayr, Scotland
Application August 31, 1938, Serial No. 227,640
In Great Britain November 17, 1937
2 Claims. (Cl. 188—5)



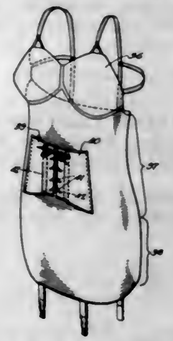
1. Emergency brake apparatus for motor road vehicles, comprising, in combination, road-engaging brake shoes located at the rear of the vehicle, skate-like blades fitted to said brake shoes and projecting below the road-engaging surfaces of the brake shoe so as, when the brake shoes are engaged with the road, to bite into the road and thus to restrain the vehicle against lateral swinging movement, a pressure fluid cylinder fitted to each stub axle at the front of the vehicle, a piston working within each cylinder, and a skate blade carried by each piston and adapted to be engaged with the road whereby to restrain the front of the vehicle against lateral displacement.

2,171,353
METHOD FOR THE UTILIZATION OF WASTE HEAT
Herman A. Brassert, Bovington, England, assignor to H. A. Brassert & Company, Chicago, Ill., a corporation of Illinois
Application March 25, 1937, Serial No. 133,019
1 Claim. (Cl. 263—52)



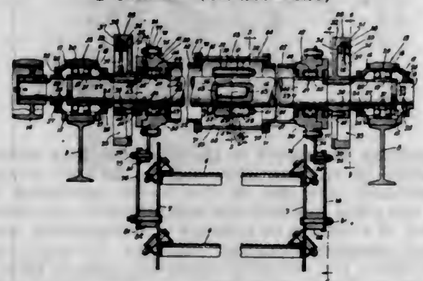
The method of utilizing waste heat in hot gases to preheat blast furnace gas and air by recuperation which comprises transferring heat from the waste gas through refractory walls to air to reduce the gas temperature to a degree non-injurious to metal walls and thereafter reducing the temperature of the gas by the admixture of air, transferring additional heat from the mixture of waste gas and air to the blast furnace gas through impervious metal walls.

2,171,354
UNDERGARMENT
Conrad Bullinger, Riverside, Ill., assignor to A. Stein & Company, Chicago, Ill., a corporation of Illinois
Application May 22, 1939, Serial No. 275,120
9 Claims. (Cl. 2—27)



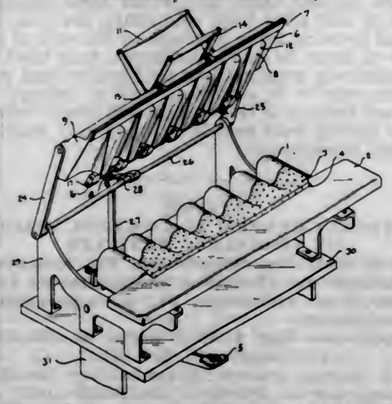
1. A garment of the class described comprising a waist part made of material which is stretchable horizontally of the garment and adapted to substantially completely encircle the body of the wearer, and means for limiting the transverse stretchability of said waist part in the abdominal area comprising right and left flaps of inelastic material disposed respectively over corresponding portions of the abdominal area of said waist part, said flaps having their outer edges fixedly secured to the garment and their inner edges provided with adjustable interconnecting means.

2,171,355
MEANS FOR PRODUCING COMPOUND MOTION
Elza F. Cole, Warren, Ind., assignor to The Deister Concentrator Company, Fort Wayne, Ind., a corporation of Indiana
Application August 3, 1936, Serial No. 93,943
1 Claim. (Cl. 209—326)



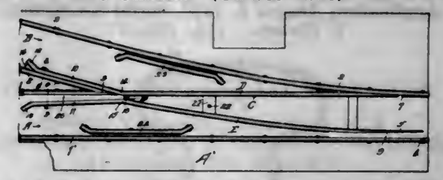
In a processing apparatus, in combination, a support, spaced bearing assemblies on said support, a shaft journalled in said assemblies and having axially spaced angularly offset eccentric elements, two self-aligning eccentric bearing assemblies mounted on said eccentric elements and including outer follower elements, a rigid structure connecting said elements for a gyratory motion having an orbital component in a plane perpendicular to said shaft and an orbital component longitudinally of said shaft, a processing surface having a frame, and laterally resilient means connecting said frame adjacent the midpoint of the length of said surface to said structure for actuation thereby.

2,171,356
RUFFLE PRESS
Manuel Florea, Springfield, Ill., assignor to Louis C. Schmidt, Springfield, Ill.
Application February 19, 1937, Serial No. 126,661
2 Claims. (Cl. 223—57)



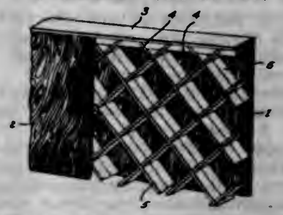
1. A ruffle press comprising a machine frame, a plurality of pressing molds arranged in alignment in parallel spaced relation, a plurality of pressing fingers pivotally supported and pivotally adjusted and a hand lever for making said adjustments; said pressing fingers adapted to be operatively moved into the space between said molds, means for heating said pressing molds and said pressing fingers and foot control lever means for moving said pressing fingers into operative position, a marginal clamp for holding a curtain and the like along the edge of said molds when the ruffles thereof are being pressed and a shelf in front of said molds for supporting the adjacent portions of a curtain and the like while the ruffle thereof is being pressed.

2,171,357
FROG AND POINT SWITCH FOR MINIATURE RAILWAY TRACKS
Anthony G. Freihoff, Ferguson, Mo., assignor of one-half to Hayward H. Gatch, Ladue City, Mo.
Application May 18, 1938, Serial No. 208,625
5 Claims. (Cl. 246—274)



1. A one way approach switch for miniature railway tracks comprising a pair of lead rails having the outer faces of their lead-off ends tapered, each lead rail formed at its approach end with a relatively short frog portion disposed at an acute angle to the longitudinal axis thereof, wings formed at the approach ends of the frog portions, a horizontally disposed bolt passing through the lead rails adjacent the juncture of the lead rails with the frog portions, a coiled spring encircling the bolt between the lead rails with the ends of the spring contacting the lead rails, a head on one end of the bolt engaging the outer face of one lead rail, an adjusting nut carried by the opposite end of the bolt and engaging the outer face of the other lead rail, and an apertured plate connecting the lead rails intermediate the bolt and spring connection and the tapered lead-off ends of the lead rails through which a pivot pin is adapted to pass for pivotally mounting the switch.

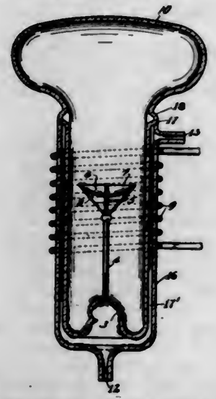
2,171,358
HOLLOW PANEL
Jean Le Gall, Nanterre, France, assignor, by mesne assignments, to American Rezo, Inc., Montclair, N. J., a corporation of New Jersey
Application December 24, 1935, Serial No. 55,990
In France December 28, 1934
2 Claims. (Cl. 20—91)



1. A hollow panel construction comprising two flat spaced boards constituting the side parallel opposed side members, and two angularly disposed series of strips arranged edgewise with respect to the side members, the strips all being of

uniform width and abutting against the inner faces of the side members, the strips of one series having pairs of notches at spaced intervals cut into the opposed edges of the strips, and the strips of the other series being each composed of two transversely longitudinally separable half sections with similarly spaced slots cut in the inner edges of the two halves, the strips being assembled by interfitting the notches of one half section of each of the second mentioned series of strips with the notches on one edge of the first mentioned series of strips and by interfitting the notches of the other half section of each of the second mentioned series of strips with the notches on the other edge of the first mentioned series of strips.

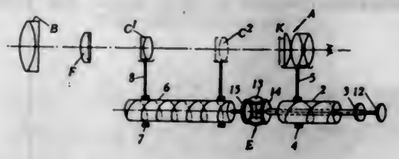
2,171,359
GLOW LAMP
Samuel E. Gertler, New York, N. Y., assignor of one-half to Harry I. Stein, New York, N. Y.
Application August 3, 1936, Serial No. 94,094
9 Claims. (Cl. 176—1)



3. In a glow lamp of the class described, in combination, a transparent cylindrically formed envelope formed of a relatively high melting point substance, a post erected within said envelope, a solitary disc shaped glow member supported by said post, a cylindrically formed casing surrounding said envelope in the vicinity of said glow member, the inner wall of said casing being spaced from the outer wall of said envelope to form a chamber through which a fluid cooling medium may circulate and a coil for energizing said glow member located exteriorally of said casing and also disposed coaxially with respect to said glow member.

2,171,360
TELESCOPE OBSERVATION INSTRUMENT
John Martin Strang, Anniesland, Glasgow, Scotland, assignor to Barr and Stroud, Limited, Anniesland, Glasgow, Scotland
Application June 9, 1937, Serial No. 147,374
In Great Britain December 20, 1935
1 Claim. (Cl. 88—32)

A telescope observation instrument having means for focusing the instrument to suit different observers while maintaining a substantially constant magnification of the object viewed, said instrument comprising an objective, an eye piece, a projector lens therebetween, the objective and projector lens producing an image of the object for presentation to the eye piece, mounting means for adjustably mounting the projector lens in the instrument, and separate supporting means in the instrument for the objective and for the eye piece, one of said separate supporting means being movable with respect to the other, an operating head, actuating means connected to the movable support and operable by said operating head for moving said movable support to vary the distance between the image plane and the eye piece for focusing, a differential gear mechanism operatively connected with said actuating means and with the projector lens mount for simultaneously



imparting movement to the projector lens mount relative to the movable support to vary correspondingly the size of the image presented to the eye piece to annul the magnification changing effect of focusing to produce a substantially constant magnification for different focusing adjustments for different observers, and a second operating head connected to the differential gear mechanism for imparting independent movement to the projector lens to change the magnification leaving focusing unchanged.

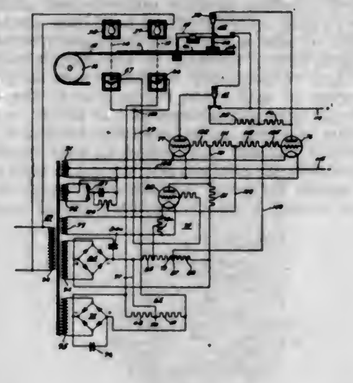
2,171,361
KNOB STRUCTURE
Joseph A. Gits and Jules P. Gits, Chicago, Ill.
Application July 29, 1937, Serial No. 156,288
4 Claims. (Cl. 16—121)



1. A knob of the type described adapted to be secured to a shaft to rotate the same comprising a molded body having an opening therein for said shaft, a bead on said body within said opening adapted to cooperate with a groove formed in said shaft to prevent axial displacement of said body from said shaft, the rear wall of said opening being engaged by the end of said shaft to limit its axial movement, said bead being relatively smaller than said groove and positioned relative to said rear wall to engage the forward portion of the wall of said groove whereby to tightly hold said body upon said shaft by a snap engagement.

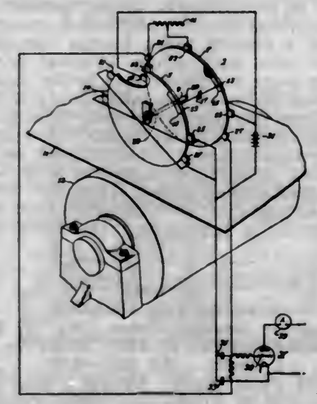
2,171,362
PHOTOCELL SYSTEM TO CONTROL SPACING OF TRAVELING ARTICLES
Finn H. Gulliksen, Wilkinsburg, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application May 6, 1938, Serial No. 206,430
16 Claims. (Cl. 250—41.5)

3. A control system for controlling the speed or frequency of supply of cardboard units to a machine, comprising a first photo-tube and light assembly; a second photo-tube and light assembly spaced therefrom in the path of travel by a distance slightly less than the dimension of a cardboard unit in the path of travel; and means responsive to the photo-tubes for preventing forward movement of a follower cardboard unit until



the leader has passed a predetermined distance from the follower.

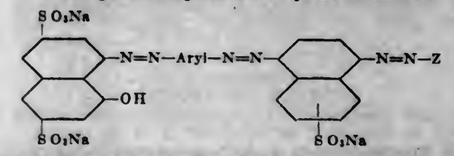
2,171,363
MOISTURE INDICATOR
Finn H. Gulliksen, Pittsburgh, Pa., assignor to Westinghouse Electric & Manufacturing Company, East Pittsburgh, Pa., a corporation of Pennsylvania
Application July 28, 1938, Serial No. 221,856
17 Claims. (Cl. 175—183)



1. An indicator for the automatic determination of the moisture content in a web while moving during its course of manufacture, comprising, in combination, rotatable means adapted to rotate on said movable web and to contact the web at two spaced points, a capacitor arranged to be alternately charged and then discharged through said web between the spaced contact points, whereby the magnitude of discharge is dependent upon the resistance of that portion of said movable web directly between the points of contact, and electronic means responsive to the operation of said capacitor.

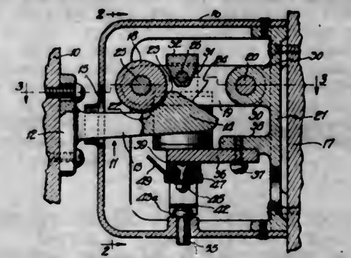
2,171,364
AZO DYES
Chester W. Hannum and Swanie S. Rossander, Wilmington, Del., assignors to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
No Drawing. Application July 8, 1937, Serial No. 152,526
4 Claims. (Cl. 260—169)

1. A compound represented by the formula:



in which Aryl is a radical having a single benzene or naphthalene nucleus and Z is a radical having a single benzene nucleus and an amino group substituted thereon.

2,171,365
AUTOMATIC HOLDING AND RELEASING DEVICE
Howard V. Harding, New York, N. Y.
Application September 3, 1937, Serial No. 162,305
14 Claims. (Cl. 292—201)

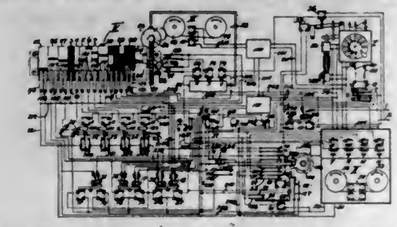


1. An automatic holding and release mechanism for closures including a pivoted member, an electromagnet, an armature carried by said pivoted member and cooperating with said magnet for normally retaining said member in a predetermined position, a roller carried by said member at a section spaced from the pivotal support of said member, and a closure retaining bolt including a cam portion normally engaged and held by said roller and capable of displacing said roller to permit movement of the closure upon failure of current through the electromagnet.

2,171,366
TELEPHONOGRAPH
Hermann Hipple, Munich, Germany, assignor to Willy Müller, Munich, Germany
Application August 11, 1936, Serial No. 95,337
In Germany August 15, 1935
13 Claims. (Cl. 179—6)

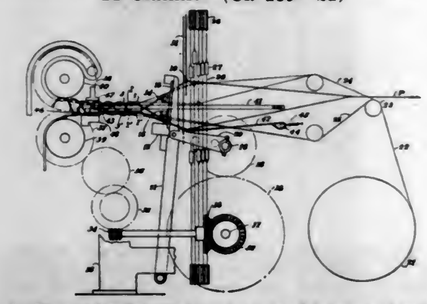
1. In a telephone system having a line leading to a subscriber's station, a speech recording and reproducing machine at said station, a message delivery apparatus at the station, an automatic connection control means for successively placing said apparatus and said machine in connection with the line, a motor operatively associated with said connection control means and said message delivery apparatus, a relay conductively connected with the automatic connection control means when said last named means has been moved by the motor to a predetermined position,

the connections between the message delivery apparatus and the line being under control of said relay and another relay conductively connected with said connection control means, means operable from any sub-station of the sys-



tem for energizing said last named relay, and means under control of said last named relay for reproducing the message recorded in said machine when the latter had been placed in connection with the line.

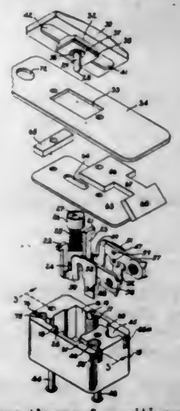
2,171,367
APPARATUS FOR AND METHOD OF WEAVING PILE FABRICS
Frank M. Kaufman, Merion, Pa., assignor to Collins & Aikman Corporation, Philadelphia, Pa., a corporation of Delaware
Application October 19, 1937, Serial No. 169,813
14 Claims. (Cl. 139—21)



1. In a pile fabric loom, a reed having dents, a supply of ground warp threads for forming a true and false ground, pile warp threads for forming high cut and lower uncut pile, shedding mechanism which interconnects the high cut pile forming threads with both grounds, two sets of superposed pile gauges, one set being stationary and the other set being sheddable, the individual gauges of each set being secured rearwardly of the reed and extending longitudinally of the warp threads through reed dents, said individual gauges having free ends, and pile severing means near the free ends of the sheddable gauges arranged to sever only the high pile formed by the pile warps, said pile severing means being aligned with the sheddable gauges and having a horizontal cutting edge between the horizontal planes of the top and the bottom of that portion of the sheddable gauges which is within the woven fabric during weaving.

2,171,368
ELECTRIC SNAP SWITCH
Alvin W. Krieger, Milwaukee, Wis., assignor to Cutler-Hammer, Inc., Milwaukee, Wis., a corporation of Delaware
Application June 21, 1937, Serial No. 149,386
3 Claims. (Cl. 200—168)

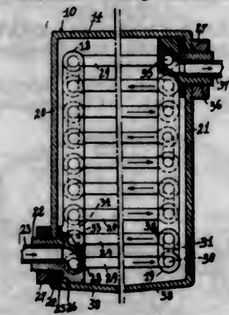
1. In an electric snap switch, in combination, a molded insulating base having a relatively large main recess formed therein and opening to the upper surface thereof, said base having an auxiliary recess formed therein in one corner thereof in spaced relation to said main recess and also opening to said upper surface, said base also having a pair of alined, flat-bottomed grooves of like width and depth formed in the upper surface thereof and respectively leading from said auxiliary recess to said main recess and to the exterior of said base at one end of the latter, a relatively thin resilient metal member having a contact portion thereof positioned in said main recess, a connecting portion positioned in said inner groove, and a terminal portion positioned in said auxiliary recess, a relatively thick metal member



having portions thereof positioned within each of the respective grooves, an intermediate portion positioned within said auxiliary recess and rigidly attached to said resilient metal member, and a wiring terminal portion positioned exteriorly of said base, a binding screw having threaded engagement with said wiring terminal portion, a metal top plate rigidly secured to the upper surface of said base, an insulating plate interposed between said top plate and said relatively thin and relatively thick metal members to clamp said members in assembled relation, and said relatively thick member cooperating with the side walls of each of said alined grooves to resist any bending strains upon said relatively thin member as an incident to tightening of said binding screw.

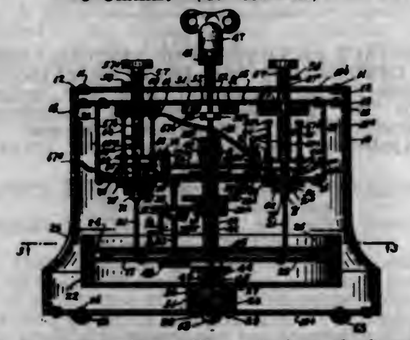
2,171,369
HOT WATER HEATER
Nathan Marcus, Union City, N. J.
Application December 27, 1937, Serial No. 181,814
1 Claim. (Cl. 257—230)

In a hot water heater, having a shell open in front, as well as intake and outlet connections for a heating medium to pass therethrough, a vertical inlet header and a vertical outlet header placed at the respective two side walls of said shell adjacent to said open end thereof, and a plurality of continuous, series connected serpentine coils between said two headers within said shell, in combination, a flat lower surface on said inlet header arranged against a flat lower portion of the respective side wall, a flat upper surface on said outlet header arranged against a flat upper portion of the respective other side wall, said inlet header also resting on the bottom of said shell, and the top of said outlet header also being placed against the top of said shell, said plurality of serpentine coils being arranged in super-posed horizontal layers between said two headers in a horizontally yielding, resilient manner; an inlet extension pipe projecting from said lower flat surface in said inlet header and passing through the respective side wall, an outlet pipe extension projecting from said upper flat surface in said outlet header and passing through the respective second side wall, a continuous channel being formed from said



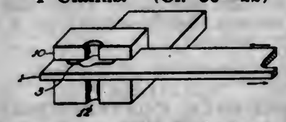
inlet pipe extension through the coils and headers to said outlet pipe extension; a resilient washer placed around each pipe extension between the respective header and side wall, screw threads on the exposed outer portions of said pipe extensions, and a securing nut on each pipe extension adapted to be tightly drawn against the respective wall of said shell, the fluid to be heated entering through said inlet pipe extension, and leaving through said outlet pipe extension.

2,171,370
AUTOMATIC TIME SWITCH CLOCK
Adrian Martin, New York, N. Y.
Application November 22, 1938, Serial No. 241,809
8 Claims. (Cl. 200—38)



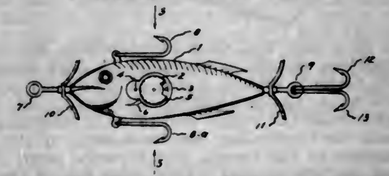
1. In combination with a clock, a shaft rotatively and slidably mounted through the frame of said clock and projecting from the face side of the clock, a spindle mounted on the extended end of said shaft and extending into said clock, a pointer radially mounted on said shaft and extending through a longitudinal slot in said spindle to lock these parts for unitary turning and furthermore extending over a calibrated scale on the face of the clock, a gear with a hub freely mounted on said shaft to rotate and move longitudinally and having the free end of its hub in end contact with said spindle, a cam mounted on said shaft and extending into a longitudinal slot in said hub to lock these parts for unitary turning and engageable when said spindle is moved longitudinally inwards into a short longitudinal slot in the inner end of said spindle and in a turned position of the spindle engageable on the top edge of said hub, resilient means urging said gear outwards, associated contacts mounted on said gear and the frame of the clock to control a circuit in the different longitudinal positions of said gear, a friction member mounted on the frame of the clock, and a friction elcment mounted on said shaft and engaging said friction member in a position of said shaft when said cam is on the edge of the hub for holding the shaft non-rotative.

2,171,371
CRIMPING DEVICE
Roland Roswell Nydegger, Wilmington, Del., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application December 24, 1937, Serial No. 181,646
4 Claims. (Cl. 86—22)



1. A device for crimping shells, comprising a blade provided with a crimping slot of predetermined width bounded by crimping edges substantially parallel but converging at each end of said slot to form substantially semicircular end portions, said crimping slot being provided with a substantially central enlargement adapted to receive a shell substantially at right angles to the plane of said blade, anchoring means for retaining said shell in a fixed position, and means for reciprocating said blade to form a uniform bead around said shell.

2,171,372
MECHANICAL FISH-LURING DEVICE
Cortez E. Peck, Beaumont, Tex.
Application December 6, 1935, Serial No. 53,205
2 Claims. (Cl. 43—46)

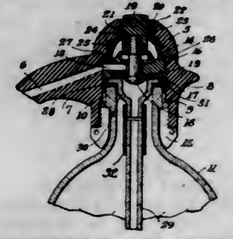


1. An artificial plug for fishing comprising a body, a recess portion therein to receive scent or coloring material, a cover plate for said recess, a pivot at the forward end for said cover so that the cover may swing tangentially of the body, said pivot and cover being arranged so that the cover turns sideways of the plug body to uncover said recess, and an opening in such cover to permit escape of the scent material when it is dissolved, whereby when the lure is being drawn through the water the pressure of the water on the cover will be effective to hold the cover over the recess.

2,171,373
SIPHON VALVE STOPPER FOR BOTTLES
Moses Rosenwald, Brooklyn, N. Y., and Ludwik Ekes, Lwow, Poland
Application September 22, 1936, Serial No. 101,980
In Poland October 21, 1935
2 Claims. (Cl. 215—4)

2. A siphon comprising a bottle adapted to be

filled with carbonic gas-charged liquid, a head removably secured to the neck of said bottle, a dispensing valve in said head, a siphon tube, said siphon tube comprising a portion clamped between said head and said bottle neck, a second



portion, and yieldable means for separately connecting said portions, and resilient means for sealing against leakage the liquid forced through said tube through said valve when said valve is open, said sealing means comprising a resilient, non-metallic member.

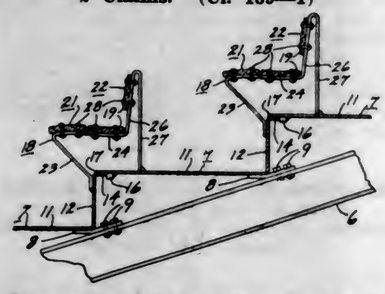
2,171,374

SEAT AND DECK CONSTRUCTION FOR STADIA

Rudd W. Ryan, Daniel L. Mead, and Orley O. Phillips, Birmingham, Ala.

Application June 24, 1938, Serial No. 215,556

2 Claims. (Cl. 189—1)



1. In a seat and deck construction for stadia, supporting beams, a plurality of deck members each formed with a tread portion and a riser portion, a flange turned outwardly at right angles from the upper end of each riser portion, means for connecting the back ends of the deck members to the beams, the forward part of the tread portion having a bare edge which rests on the flange and terminates short of the front face of the adjacent riser portion, and continuous weld joints connecting the forward edges of the tread portions upon the flanges of adjacent deck members.

2,171,375

LIGHT WEIGHT CONSTRUCTION STEEL

Byramji D. Saklatwalla, Pittsburgh, Pa.

No Drawing. Application December 10, 1937, Serial No. 179,102

5 Claims. (Cl. 75—125)

1. A low carbon alloy steel of high physical properties containing about .01 to .25% carbon, about .60 to 1.50% silicon, about .25 to .60% copper, about .50 to 1.25% nickel, about .10 to .25% phosphorus, under .60% manganese, under .10% sulphur, the balance being substantially all iron, the alloy steel being free from chromium in amount to exert a noticeable effect on its properties and being always less than .25%, and characterized by a tensile strength in the as-rolled condition of about 65,000 to 80,000 pounds per square inch, the yield point being over about 70% of the tensile strength, and further characterized by a ductility and deformability at least equal to that of carbon steel of corresponding strength, together with good capability of being welded by the ordinary commercial processes of welding.

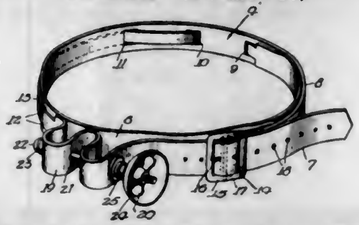
2,171,376

HEAD TREATING DEVICE

Charles Enion Smith and Chester H. Bruns, Chicago, Ill.

Application April 20, 1937, Serial No. 137,994

3 Claims. (Cl. 128—97)



1. As a new article of manufacture, a device adapted for treating head ailments and comprising a band having the central portion thereof shaped to engage and encircle the head and having one end thereof extending around one side of the central portion and its other end extending slidably through an aperture in said central portion and around the other side of the latter, means for adjustably securing the ends of the band together, and bolt means associated with one end of the band and wholly independent of said securing means and so manipulable while the band is in place on the head as to effect shortening of the last mentioned one end of the band and resultant contraction of the central portion of the band for head clamping purposes.

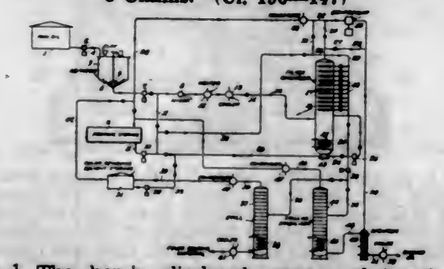
2,171,377

CONTACT FILTRATION OF VISCOUS LUBRICATING OILS FOR DECOLORIZATION

Claude F. Tears, Mountain Lakes, N. J., assignor to The Petroleum Processes Corporation, Wichita, Kans., a corporation of Kansas

Application May 25, 1934, Serial No. 727,497

8 Claims. (Cl. 196—147)



1. The herein disclosed process of treating lubricating oil, which comprises dissolving lubricating oil in a liquefied normally gaseous hydrocarbon solvent under pressure sufficient to maintain the solvent in the liquid state, heating and contacting the solution with adsorbent clay at a temperature in excess of 125° F. under pressure sufficient to maintain the heated solvent in the liquid state, separating the solution from the clay under pressure sufficient to maintain the solvent in the liquid state and separating the treated oil from the solvent.

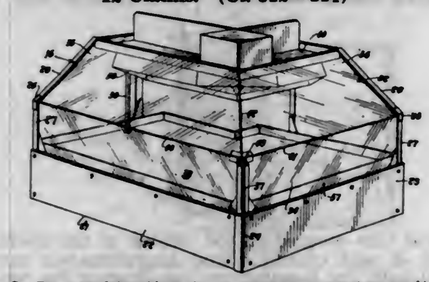
2,171,378

DISPLAY COUNTER CONSTRUCTION

James F. Urbanek, Elmwood Park, Ill.

Application June 11, 1937, Serial No. 147,599

12 Claims. (Cl. 312—114)



2. In combination in a corner counter unit of the character described, a base having a corner, a pair of upright glass panels mounted upon said base and meeting at said corner to produce a glass corner, a second pair of glass panels having their lower edges adjoining the upper edges of said upright panels and slanting upwardly and rearwardly therefrom, the adjacent edges of said second glass panels being formed on a bias and meeting to provide a slanting continuation of said glass corner, and an angular clip engaging limited adjoining marginal parts of all four of said panels at the lower end of said slanting continuation.

2,171,379

AMMONIUM NITRATE EXPLOSIVE

Milton Heins Wahl, Woodbury, N. J., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware

No Drawing. Application September 28, 1938, Serial No. 232,115

14 Claims. (Cl. 52—14)

1. A granular detonating explosive especially adapted to the mining of coal, comprising ammonium nitrate intermingled with a binding agent and a sensitizing agent and agglomerated in the form of aggregates of loosely bound structure, said aggregates having a size such that substantially all are held on a 50-mesh screen.

2,171,380

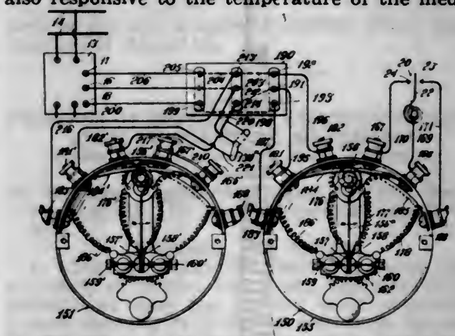
SAFETY DEVICE FOR AUTOMATIC BURNERS

Cy Wedge, Houghton, Mich.

Application July 25, 1935, Serial No. 33,047

7 Claims. (Cl. 236—9)

1. Control means for an automatic coal stoker for furnaces and the like having a medium heated by combustion of the coal fed to the furnace, said control means comprising a room thermostat, energizing means for actuating the stoker including a relay having three terminals and associated conductors, said relay being so arranged that shorting the first and third conductors energizes the stoker and shorting the first and second conductors deenergises the stoker, a first temperature sensitive unit responsive to the temperature of said medium and including means serving as two pairs of contacts, said pairs of contacts including a first pair directly connected with said first and second relay conductors, respectively, whereby when the temperature of said medium reaches a certain predetermined high value said relay is actuated to deenergize said stoker, said room thermostat including means serving as two pairs of contacts, the first pair of contacts thereof being connected to short said first and second relay conductors through the second pair of contacts of said first temperature sensitive unit, whereby said room thermostat serves to deenergize said stoker when said first pair of room thermostat contacts are engaged, providing the stoker has not previously been deenergized by the engagement of the first pair of contacts of said temperature sensitive unit, the second pair of room thermostat contacts being connected with the first and third relay conductors through said second pair of contacts of the first temperature sensitive unit, whereby said relay is actuated to energize the stoker only when the second pair of said room thermostat contacts and said second pair of contacts of the temperature sensitive unit are engaged, and a second temperature sensitive unit also responsive to the temperature of the medi-



um heated by said furnace, said second temperature sensitive unit also including means serving as two pairs of contacts, the first pair of contacts being disposed in series with the second pair of room thermostat contacts and said second pair of contacts of said first temperature sensitive means, whereby neither the room thermostat nor said first temperature sensitive means can actuate said relay to energize said stoker unless the first pair of contacts of said second temperature sensitive unit are in engagement, the second pair of contacts of the second temperature sensitive unit being arranged in series with said second pair of contacts of the first temperature sensitive unit to connect said first and second relay conductors to deenergize said stoker independently of the position of either of the pairs of contacts of the room thermostat.

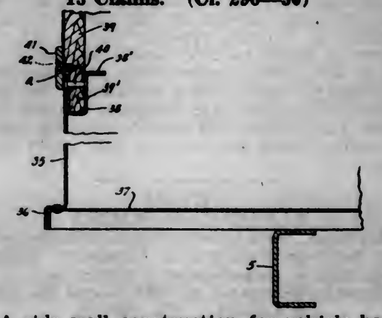
2,171,381

SIDE WALL CONSTRUCTION FOR VEHICLE BODIES

Ralph M. Werner, Brooklyn, N. Y.

Application December 10, 1938, Serial No. 244,939

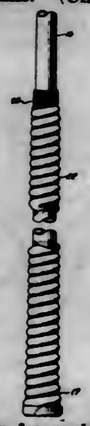
13 Claims. (Cl. 296—30)



1. A side wall construction for vehicle bodies,

comprising a thin longitudinally extending lower sheet metal side panel having an integral inner stiffening channel member extending along its upper margin, a relatively thick light weight upper laminated panel mounted in said channel and means adjacent said channel member for securing said panels together.

2,171,382
GOLF CLUB GRIP AND METHOD OF MAKING THE SAME
William L. Wettlaufer, Buffalo, N. Y.
Application September 8, 1938, Serial No. 228,976
5 Claims. (Cl. 273—81)



1. A grip portion for a shaft comprising a soft rubber tube resiliently engaging one end of the shaft, said tube being cemented to the shaft, and a cord wound under tension upon the tube in the form of a helix, the pitch of the helix being substantially three times the unwound normal wall thickness of the tube.

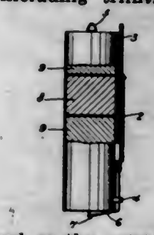
2,171,383
GOLF CLUB HEAD
William L. Wettlaufer, Buffalo, N. Y.
Application October 12, 1938, Serial No. 234,652
3 Claims. (Cl. 273—77)



1. In a golf club, a head comprising an integral metallic shell having bottom and upstanding walls defining an open chamber therein, a pivot member secured to the bottom of said shell, a plate pivotally carried by the pivot member, a plurality of radially spaced teeth in the shell bottom, a tooth in said plate engageable with one of the teeth of said shell, said upstanding walls being formed with a continuous shouldered ledge, a cover for said chamber snugly fitting within said ledge, and interconnecting and interlocking means for securing said cover to said ledge.

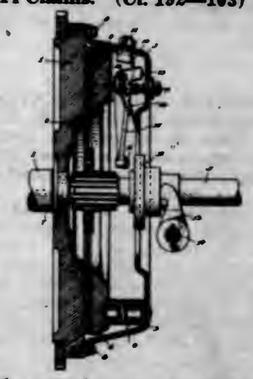
2,171,384
BLASTING ASSEMBLY
Fred Young, West Haven, Conn., assignor to E. I. du Pont de Nemours & Company, Wilmington, Del., a corporation of Delaware
Application November 4, 1937, Serial No. 172,699
6 Claims. (Cl. 102—6)

1. A blasting assembly comprising a substantially cylindrical watertight metal container, a charge of detonating explosive within said container comprising a main charge incapable of detonation by means of a blasting cap and a booster charge including trinitrotoluene, and a



metal tube secured on the outside of the lateral wall of said container and approximately parallel with the longitudinal axis thereof for confining a detonating fuse in propagating relationship with said booster charge.

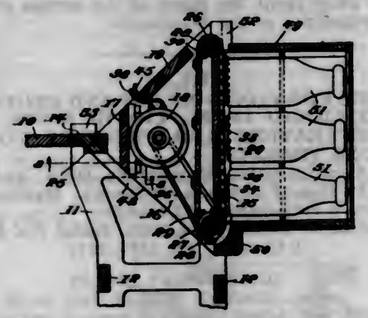
2,171,385
CLUTCH
Reinhold C. Zeidler, Detroit, Mich., assignor to Borg-Warner Corporation, Chicago, Ill., a corporation of Illinois
Application October 7, 1937, Serial No. 167,797
14 Claims. (Cl. 192—103)



2. A clutch comprising in combination driving and driven members, clutch release levers, a support for each lever comprising a member seated upon a fixed clutch member for resisting forces in one direction and means including a spring element frictionally engaging and holding said member seated upon the fixed clutch member, said spring element being of such strength as to resist forces in the opposite direction tending to unseat said member, said member arranged to rock upon said seat.

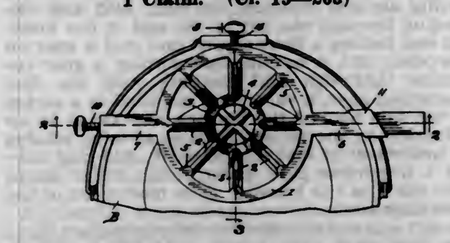
2,171,386
MILK BOTTLE FILLER ATTACHMENT
Charles O. Barger, Kent, Wash.
Application June 6, 1938, Serial No. 212,203
3 Claims. (Cl. 214—91)

1. A bottle feeding attachment for filling machines, comprising a tiltable table pivotally mounted in a plane whereby to be movable to a horizontal position in feeding relation to the bottle receiving table of the filling machine, and to a substantially vertical crate receiving position, said tiltable table being counterweighted with overbalancing effect whereby to be self-movable to horizontal position and normally sustaining a given load thereon in such position, a bottle feeding conveyor on said tiltable table, a motor for driving said conveyor, and means for automatically energizing said motor when



the tiltable table is moved to horizontal position and for automatically de-energizing the motor when said tiltable table is moved to vertical position.

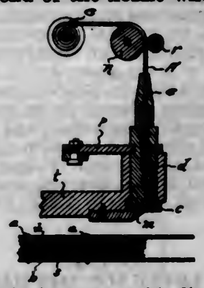
2,171,387
MOP WRINGER
Charles Cleaveland Bennett, Dallas, Tex., assignor of one-third to Charlie Wall Walker, Charleston, S. C.
Application October 22, 1937, Serial No. 170,453
1 Claim. (Cl. 15—263)



In a mop wringer a one-piece structure including an upper ring, oppositely extending arms integral therewith for resting on a container to support the ring, a lower smaller ring, the two rings being coaxial, widely spaced, upwardly diverging substantially straight bars connecting the lower and upper rings each having a flat longitudinally extending inner surface and flat side surfaces converging inwardly toward the inner surface, the said bars cooperating to define throats therebetween for the reception of the fabric of a mop, cross bars associated with and within the lower ring, and means for attaching the wringer to a container.

2,171,388
METHOD AND MEANS FOR BINDING FIBROUS BUILDING MATERIAL
Ludwig Berger, Knittelfeld, Styria, Austria
Application June 22, 1937, Serial No. 149,766
In Germany December 23, 1936
2 Claims. (Cl. 140—93)

1. In apparatus for binding slabs formed of fibrous material and having wire along two opposite surfaces thereof, a rotatable nozzle arranged adjacent one surface of the slab, means for feeding a wire into the nozzle, said nozzle having an inlet opening arranged on the axis of the nozzle and an outlet opening radially displaced with respect to the axis of the nozzle, and cutting means mounted in a fixed relation with respect to the outlet end of the nozzle whereby the wire

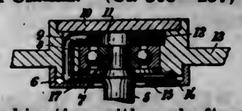


may be cut into transverse binding pieces upon rotation of the nozzle.

2,171,389
PROCESS OF APPLYING A COATING OF LACQUER TO FLEXIBLE MATERIALS
Steven Jan Blaupot ten Cate, Kootwijk, Netherlands
No Drawing. Application April 13, 1937, Serial No. 136,685. In the Netherlands April 17, 1936
10 Claims. (Cl. 91—68)

1. A process of providing flexible materials with a coating of lacquer comprising applying to the material at least one priming layer containing a large quantity of fillers and rubber as the only binder and at least two intermediate layers consisting of a mixture of a rubber dispersion, a polymerized acrylic acid ester and a cellulose ether emulsion, the first intermediate layer containing a larger proportion of rubber than the succeeding intermediate layers so as to obtain a firm adherence of the first intermediate layer to the rubber base and of the last intermediate layer to the cellulose lacquer coating, and subsequently applying a coating of cellulose lacquer.

2,171,390
ANTIFRICTION BEARING
Richard Bode and Achim von Petery, Kiel, Germany, assignors to Anschutz & Co. G. m. b. H., Kiel-Neumuhlen, Germany
Application February 16, 1938, Serial No. 190,864
In Germany February 22, 1937
4 Claims. (Cl. 308—187)



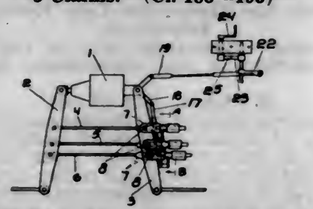
1. The combination with a shaft and an antifriction bearing coordinated thereto, of oil flinging means on said shaft and an oil absorbing device surrounding said shaft without contacting therewith at one side of said bearing to absorb any free oil issuing therefrom and from said oil flinging means and contacting said shaft at the other side of said bearing to return the oil thereto.

2,171,391
PROCESS OF PRODUCING HARD MATERIALS
Alfred Boecker, Bielerhof, Biel, Switzerland, assignor to the firm Duradur S. A., Biel, Switzerland
No Drawing. Application March 19, 1937, Serial No. 131,959. In Switzerland March 25, 1936
3 Claims. (Cl. 75—137)

1. Process of manufacturing a hard metal con-

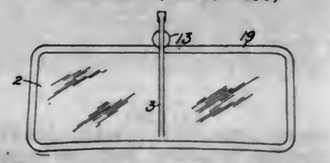
sisting of the steps of mixing pulverized tungsten and an acid selected from the group consisting of vanadic and titanic acids, with a quantity of carbon below that theoretically required to form the carbides of the metal components and in an amount of from about 8% to 13%, heating the mixture at 1500° to 2000° C. to form a compound of tungsten selected from the group consisting of tungsten vanadide and tungsten titanide respectively, and to carburize said tungsten compound, finely pulverizing the product, forming shaped bodies thereof, and heating the shaped bodies at 1500° to 2000° C.

2,171,392
VARIABLE LEVERAGE MECHANISM FOR VEHICLE BRAKES
Bert Henry Browall, Malmo, Sweden, assignor to Svenska Aktiebolaget Bromsregulator, Malmo, Sweden, a corporation of Sweden
Application December 23, 1938, Serial No. 247,501
In Germany December 31, 1937
5 Claims. (Cl. 188—195)



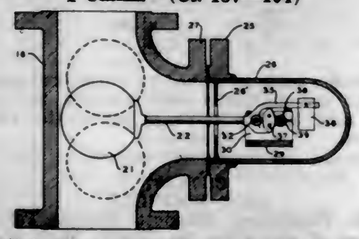
1. A variable leverage mechanism for vehicle brakes, especially railway car brakes, comprising a number of brake lever tie rods each having an idle motion in relation to one brake lever, two members arranged opposite to each other around the axis of each of said tie rods and movable in relation to each other through idle movement of the tie rod, one of said members being rotatable and adapted to be set in any one of a number of predetermined angular positions around said axis, corresponding to the number of said tie rods, and circumferentially distributed projections provided on said members and forming cooperating abutments so arranged that they are in front of each other and cooperate to render the tie rod operative by reducing the idle motion thereof in one of said predetermined angular positions of said rotatable member, but are free to pass between each other in any other of said positions of said rotatable member.

2,171,393
WIND-SCREEN WIPER
John Burnside, Glasgow, Scotland
Application April 19, 1937, Serial No. 137,836
In Great Britain April 21, 1936
1 Claim. (Cl. 15—250)



A windscreen wiper comprising a wiper blade, a mounting for the said blade near the edge of the screen, driving means for rotating the blade continuously in one direction about its axis of rotation in the said mounting so that it wipes over the screen for approximately one half of a revolution only and cam means arranged for maintaining the blade in contact with the screen during the said approximately one half revolution and for permitting deflection of the blade away from the plane of the screen during the remainder of the revolution.

2,171,394
DEVICE FOR CONTROLLING AND REGULATING LIQUID LEVEL, LIQUID FLOW, AND TEMPERATURE AND PRESSURE CONDITIONS THEREOF
Jean Earl Christian, Bartlesville, Okla., assignor to Phillips Petroleum Company, Bartlesville, Okla., a corporation of Delaware
Application January 30, 1935, Serial No. 4,198
1 Claim. (Cl. 137—104)



A pilot valve comprising a housing closed at one end and having an elongated slit in the other end, a shaft rotatably mounted in said housing having an arm mounted thereon, said arm extending through the slit in the end of the housing and having a float on one end and a gear on the other end, a second shaft having a gear rotatable therewith and meshing with the first mentioned gear, a valve plug mounted in a socket in the side wall of the housing and keyed to an extension on the second shaft so as to be rotated by movement of said second shaft, said plug having a transverse port therethrough which aligns with ports in the housing upon movement of the float member.

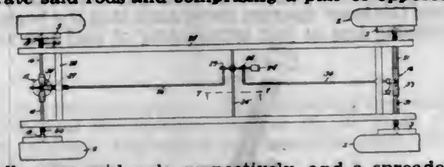
2,171,395
TREATMENT OF RUBBER
Ernest Harold Farmer, Hertfordshire, and Henry Potter Stevens and James Walker Rowe, London Bridge, England, assignors, by mesne assignments, to The British Rubber Producers' Research Association, London, England
No Drawing. Application February 1, 1937, Serial No. 123,546. In Great Britain May 4, 1936
12 Claims. (Cl. 260—110)

1. A process for the treatment of rubber consisting in adding boron trifluoride dissolved in acetic acid to a solution of rubber in an inert organic solvent, the acetic acid simultaneously functioning as a dehydrating agent, and subsequently boiling the mixture.

2,171,396
BRAKE MECHANISM
Matthew Farrell, Middleport, Pa.
Application May 2, 1938, Serial No. 205,592
1 Claim. (Cl. 188—10)

Brake mechanism for automobiles comprising an opposed pair of brake shoes, the shoes of each pair operative with a separative action to set the same, and brake setting mechanism including a pair of shoe operating rods related to said pairs of shoes, respectively, and mounted on a fixed part of the automobile for separation endwise

to set the shoes of their related pairs, spring means tensioning said rods against separation, a brake pedal, means operative by said pedal to separate said rods and comprising a pair of opposed



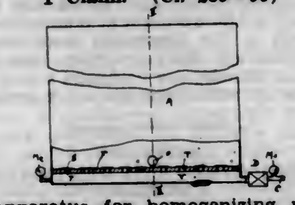
rollers on said rods, respectively, and a spreader interposed between said rollers, and means operative by said rods to separate the shoes of their related pairs.

2,171,397
PLANT PROTECTOR
Hans Griesbacher, Taunton, Mass.
Application August 1, 1938, Serial No. 222,529
1 Claim. (Cl. 47—23)



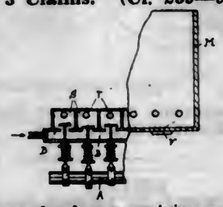
A protector of the character described comprising an anchoring plate provided on one side thereof with spring clips and a wire bent into the form of a U and having the bight portion of the U engaging one of the clips and the leg portions of the U engaging other of the clips in a manner detachably securing the wire to the anchor plate at the closed end of the U.

2,171,398
APPARATUS FOR HOMOGENIZING POWDERED MIXTURES
Edouard Hastert, Esch-Alzette, Luxemburg
Application June 12, 1935, Serial No. 26,310
In Belgium June 16, 1934
1 Claim. (Cl. 259—99)



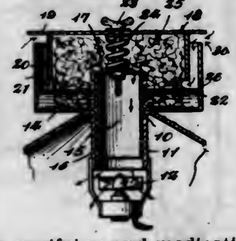
An apparatus for homogenizing pulverulent mixtures by incorporating a fluid under pressure in the material to be homogenized, subjecting the heterogeneous medium of material to be homogenized and fluid under pressure to pulsations of pressure, comprising a receptacle for the material to be homogenized, means for supplying air under pressure, and means for communicating a vibratory state to the air under pressure.

2,171,399
METHOD AND APPARATUS FOR HOMOGENIZING POWDERED MIXTURES
Edouard Hastert, Esch-Alzette, Luxemburg, assignor to Louis Peters, Duesseldorf, Germany
Application July 9, 1935, Serial No. 30,574
In Germany October 24, 1934
3 Claims. (Cl. 259—99)



1. A process for homogenizing pulverulent material, consisting in injecting currents of air of varied speed into non-contiguous locations of the material to be treated.

2,171,400
AIR FILTER AND MEDICATOR FOR POULTRY HOVERS AND THE LIKE
James Lyon, San Diego, Calif.
Application July 7, 1937, Serial No. 152,405
5 Claims. (Cl. 21—74)

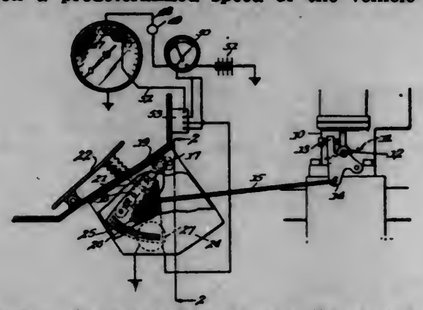


5. An air purifying and medicating device for hovers comprising a receptacle having means for connection with an air entrance passage of a hover, an upstanding collar within the receptacle, the collar extending above the level of a medicament within the receptacle, a filter material within the receptacle disposed above and around the collar, and means for controlling passage of air into the receptacle.

2,171,401
SPEED CONTROL MECHANISM FOR AUTOMOTIVE VEHICLES
James Reynolds McCoy, Jersey City, N. J., assignor of three-fourths to William J. Bigley, Hoboken, N. J.
Application September 10, 1937, Serial No. 163,328
12 Claims. (Cl. 180—82)

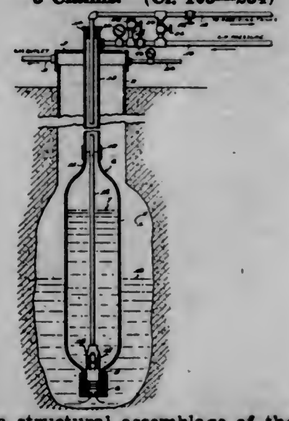
1. A speed control device for motor vehicles wherein the motor vehicle is provided with an intake manifold having a throttle valve controlling the admission of fuel to the engine, an accelerator pedal, and operating mechanism for transmitting movement from the accelerator pedal to the valve, comprising pedal locking means including a plate and a solenoid having a movable core associated with said plate, one of said last mentioned elements being carried by

said operating mechanism, and means operable upon a predetermined speed of the vehicle to



energize the solenoid and move the core into locking engagement with the plate.

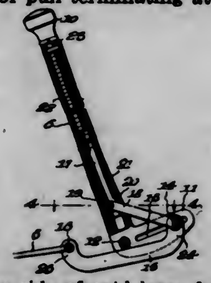
2,171,402
FLUID WELL FLOWING MEANS
Raymond F. Muir, Grand Valley, Pa., assignor of one-half to Wallace P. Strait, Grand Valley, Pa.
Application September 19, 1938, Serial No. 230,713
3 Claims. (Cl. 103—234)



1. In a structural assemblage of the class described, in combination, a well casing, a casing head having gaging and venting means, a barrel mounted in said casing head and provided with a stuffing box, a trapping and oil containing reservoir connected to the lower end of said barrel, an apertured intake fitting on the lower end of said reservoir, a valve cage in the lower end of the reservoir, a ball check valve therein, a flow discharge and lifting pipe connected to the cage and extending up through the reservoir and barrel and stuffing box, a discharge line connected with said flow pipe and provided with a hand controlled cock, a valved air pressure pipe connected with the upper end portion of said barrel to feed air under pressure down into the reservoir, a valved bleed pipe connected with said air pressure pipe, and a valved by-pass joining said air pressure pipe and discharge line together.

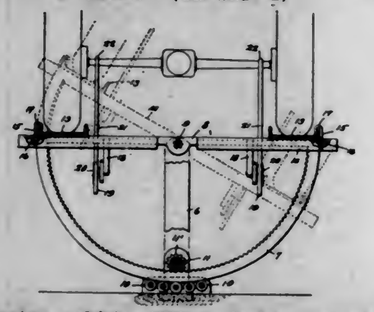
2,171,403
BRAKE MECHANISM
Albert Orschein, Moberly, Mo.
Application August 27, 1938, Serial No. 227,187
6 Claims. (Cl. 188—196)

1. In combination, a brake, a lever for applying and releasing said brake, connecting means between said brake and said lever including a pull link and a pin connecting said pull link with said lever, the relation of said pull link and pin with the lever fulcrum being such that the brake-applying line of pull terminating at said pin will



move from one side of said lever fulcrum to the opposite side thereof when said lever is moved to brake-applied position, causing said lever to remain in said brake-applied position until forced therefrom, said combination having provision for limiting the extent which said lever may move in brake-applying direction.

2,171,404
REVOLVING HOIST
James M. Paine, Harlingen, Tex.
Application July 21, 1937, Serial No. 154,871
1 Claim. (Cl. 214—1)



A motor vehicle tilting device comprising spaced supports, uprights rising from the supports, a plurality of spaced rollers on each support, the upper surfaces of the rollers being disposed in a curved line, curved rack bars resting on the rollers, gears mounted on the supports and meshing with the teeth of the rack bars, and adapted to operate the rack bars, tilting the rack bars laterally, transversely disposed supporting bars connected with the upper ends of the curved rack bars, means for pivotally connecting the supporting bars to the uprights at points intermediate the ends of the supporting bars, track sections mounted on the supporting bars and on which motor vehicles are held, and means for securing a motor vehicle on the track sections.

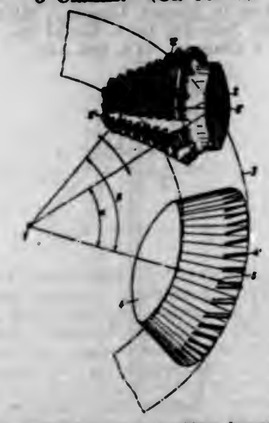
2,171,405
WELDING STRIP AND CENTRIFUGAL CASTING
William D. Sargent, New York, N. Y., assignor to Durafer (Inc.), Dover, Del., a corporation of Delaware
Application February 10, 1932, Serial No. 592,003
3 Claims. (Cl. 22—219)

2. A centrifugal casting comprising an annular body of centrifugally cast metal having an annular mesh reinforcing metallic element fused therewith during casting, said element having



an annular solid portion lying adjacent the outer surface of the casting, the size of the mesh of the element increasing progressively from the solid portion.

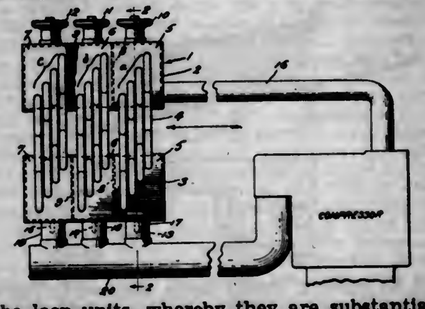
2,171,406
SPIRAL ROLLING GENERATING PROCESS FOR BEVEL GEARS AND APPARATUS THEREFOR
Heinrich Schicht, Huckeswagen, Germany, assignor to the firm: W. Ferd. Klingelnberg Söhne, Remscheid-Berghausen, Germany
Application March 19, 1937, Serial No. 131,920
In Germany March 24, 1936
8 Claims. (Cl. 90—5)



1. The method of generating bevel gears by a continuous rolling generating movement between a cutting tool having different end diameters and a gear blank, which comprises bringing the rotating tool into contact with a rotating blank, subjecting the tool to oscillatory movement about the axis of the imaginary crown gear, and varying the speed of tool oscillation in accordance with the progress of the cutting operation to produce a uniform rate of cut throughout the generating process.

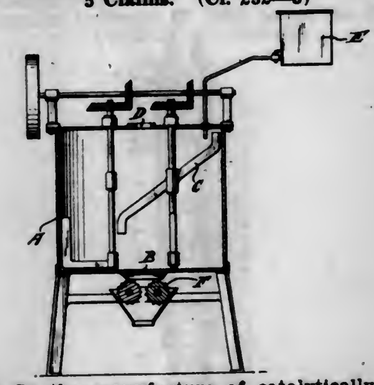
2,171,407
THERMOSTATIC CONTROL FOR MULTIPASS EVAPORATORS
John L. Shrode, St. Louis, Mo., assignor to Alco Valve Company, Incorporated, St. Louis, Mo., a corporation of Missouri
Application May 14, 1936, Serial No. 79,765
4 Claims. (Cl. 62—127)

2. Refrigeration system including in combination with a multi-pass evaporator having tube loop units connected in multiple between the conduits which constitute the liquid and suction limbs of said system, the suction limb conduits constituting branches of a suction manifold, means for maintaining a maximum area of wetted surface in the several tube loop units of the evaporator regardless of variable loads on the several tube loop units, comprising expansion valves individual to the several tube loop units, and thermostats for controlling said expansion valves individual to the several tube loop units, said thermostats being immersed in the effluent gas adjacent the suction ends of the respective



tube loop units, whereby they are substantially isolated from the thermal conductivity of proximate metal masses.

2,171,408
ACTIVE CARBONACEOUS MATERIALS
Pieter Smit, Amsterdam, Netherlands, assignor to N. V. Octrooien Maatschappij "Activit", Amsterdam, Netherlands
Application September 17, 1935, Serial No. 40,917
In France September 26, 1934
5 Claims. (Cl. 252—3)

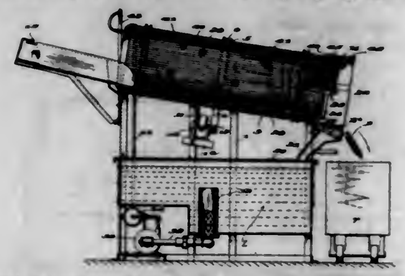


1. In the manufacture of catalytically active carbonaceous materials having colloidal properties, the process which comprises finely subdividing a solid carbonaceous material, which has the property of yielding carbon when subjected to dry distillation, and quickly mixing the finely subdivided product with concentrated sulfuric acid having a concentration of over approximately 60° Bé., the rate and conditions of mixing being such that the formation of lumps is avoided, that an instantaneous reaction is produced throughout the whole mass which is completed to give a final product within a period not exceeding 10 minutes and that a substantially instantaneous rise in temperature to a maximum of not below 150° C. and not substantially above 250° C. is caused, whereby a rapid volatilization of secondary condensable products formed in the reaction takes place.

2,171,409
CONDITIONING-YARN BOBBIN
Robert Bigham Smith, Atlanta, Ga., assignor to Frank G. North, Inc., Atlanta, Ga., a corporation of Georgia
Application October 15, 1938, Serial No. 235,272
16 Claims. (Cl. 28—59)

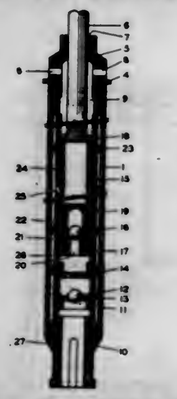
1. In an apparatus for conditioning bobbins

of yarn and the like, a circuit adapted to continuously circulate conditioning fluid; said circuit including a spray head for spraying said fluid



and an inclined rotary drum adapted to convey bobbins therethrough and to collect fluid sprayed thereon by said spray head.

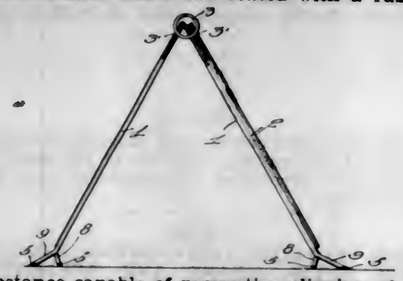
2,171,410
PUMP
Francis E. Steele, Shreveport, La., assignor to Phillips Petroleum Company, a corporation of Delaware
Application October 18, 1937, Serial No. 169,701
1 Claim. (Cl. 103—203)



In a deep well pump mechanism for pumping a mixture of liquid and gas, an outer pump barrel, an accumulation chamber within the pump barrel, a space between the pump barrel and the wall of the accumulation chamber forming a conduit, a plunger reciprocable in said accumulation chamber and vent means to prevent gas locking of the pump comprising openings near the upper end of the accumulation chamber connecting the accumulation chamber and the space between the pump barrel and the accumulation chamber, said openings being closed by the plunger for the major portion of its stroke but being opened when the plunger approaches its extreme upward position.

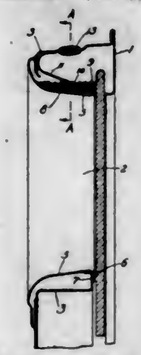
2,171,411
NOTEBOOK
Louis T. von Bussler, Ashton, Md.
Application August 6, 1937, Serial No. 157,786
3 Claims. (Cl. 281—33)

2. A book cover comprising a sheet of relatively stiff material and a hinge member, the edge remote from the hinge end of said cover being serrated to form a plurality of alternate forwardly and rearwardly extending feet of different length which are coated with a rubbery



substance capable of preventing slipping of said cover when stood on said coated edge.

2,171,412
GARNISH MOLDING AND SECURING MEANS THEREFOR
Dewey O. Brown, Lansing, Mich.
Application July 19, 1937, Serial No. 154,513
3 Claims. (Cl. 296—44)

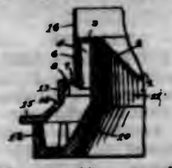


1. In a vehicle body, a door, a window opening therein, a garnish molding for the inner side of said opening, concealed detachable fastening means for securing the said molding in the window opening, said means comprising a plurality of U-shaped springs spaced around the top and sides of the said window opening, said springs being attached at one end to the door structure with the bent portion thereof arranged toward the interior of the vehicle body, cooperating locking blocks carried on the outer side of said garnish molding, ratchet teeth formed on the upper side of said locking blocks, the unattached ends of said U-shaped springs being adapted to ride over and progressively engage the said teeth when the garnish molding is placed in the window opening, and apertures formed in the top and sides of said door adjacent each fastening means permitting access to the said springs whereby they may be disengaged from their respective blocks.

2,171,413
APPARATUS FOR AND METHOD OF RESHAPING A MOLDED PULP ARTICLE
Merle P. Chaplin, South Portland, Maine, assignor to Chaplin Corporation, South Portland, Maine, a corporation of Maine
Application June 7, 1937, Serial No. 146,763
12 Claims. (Cl. 93—55)

1. A device of the class described, comprising

a base member with an upstanding central section adapted to hold in position a molded pulp article, a portion of which is to be reshaped, said base member having exteriorly, of said first men-



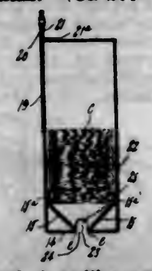
tioned upstanding section, a plurality of other upstanding portions, and a compression ring, a portion of which is adapted to rest on and be held by, the aforementioned plurality of exteriorly positioned upstanding members on the base ring.

2,171,414
SHOE
James C. Givren, Brockton, Mass.
Application October 28, 1938, Serial No. 237,429
2 Claims. (Cl. 36—12)



1. A shoe comprising an insole having its forepart recessed so as to provide a narrow marginal band of a width not exceeding the full thickness of the insole, resilient cushioning material filling said recess, an upper having its margin lasted over the band and an appreciable area of the exposed surface of the cushioning material, said upper being secured to the cushioning material, and an outsole attached to the shoe bottom.

2,171,415
CONTAINER FOR PACKAGING AND DISPENSING INTERFOLDED PAPER SHEETS
John I. Haney, Berlin, N. H., assignor to Brown Company, Berlin, N. H., a corporation of Maine
Application August 19, 1938, Serial No. 225,735
4 Claims. (Cl. 206—57)



1. A paperboard, box-like container adapted for packaging and dispensing interfolded paper sheets and formed up from a precut and prescored blank comprising substantially similar front and back members, a top portion disposed between said front and back members and defined by a pair of parallel transverse lines of score constituting the upper edges of said front and back members, a side wall portion projecting from each side of the front and back members and defined by a vertical line of score, the side wall portions of the back and front members being in lapping relationship, and a bottom portion projecting from the lower edge of each said front and back members, each said lower edges being defined by a transverse line of score and said bottom portions being turned from said last-named lines of score toward each other to provide a container bottom having a dispensing slot therethrough, each said bottom portions having a second transverse line of score definitive of an edge in said dispensing slot and of an extension bent upwardly from said second transverse line of score into the container interior, said extensions being secured at their inner end portions to the inner walls of said front and back members and extending in converging relationship from said walls to the edges of said dispensing slot to afford a hopper-shaped support on which rests a stack of interfolded sheets placed in said container.

2,171,416
METHOD OF TREATING A PRODUCING FORMATION
Robert E. Lee, Coleman, Tex., assignor to Lee Angular Drill Corporation, Dallas, Tex., a corporation of Delaware
Application February 23, 1937, Serial No. 127,028
3 Claims. (Cl. 166—21)



1. The method of acidizing petroleum producing formations which consists initially in boring a vertical hole, then in drilling a plurality of angular openings at predetermined levels and angles from and with respect to the vertical bore hole, in packing off selective groups of said openings, in introducing into unrestricted groups of openings an acidizing agent through said bore hole, in changing the position of the discharge point of said agent with respect to the packing to obtain access to companion groups of openings and in introducing thereinto said acidizing agent.

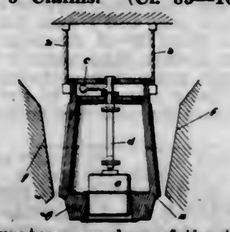
2,171,417
CRANKSHAFT GRINDING TOOL
Edward M. McGovern and Paul Schrick, Newark, N. J., assignors to Lempco Products, Inc., Bedford, Ohio, a corporation of Ohio
Application July 26, 1938, Serial No. 221,401
4 Claims. (Cl. 51—73)

1. In a crankshaft grinding tool, the combination of a rotary frame having a central opening,

2,171,428
COMPOSITION OF MATTER
Carroll L. Griffith and Lloyd A. Hall, Chicago, Ill., assignors to The Griffith Laboratories, Inc., a corporation of Illinois
No Drawing. Application January 5, 1939, Serial No. 249,518
5 Claims. (Cl. 99—109)

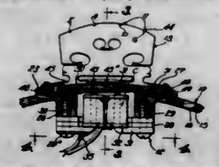
4. A solid solution consisting essentially of 3–40 parts of blood albumen, 97–60 parts of milk and 0–25 parts of vegetable gum.

2,171,429
GYRATORY CRUSHER
Siegfried Kiesskalt, Frankfort-on-the-Main-Hochst, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application October 2, 1936, Serial No. 103,776
In Germany October 5, 1935
5 Claims. (Cl. 83—10)



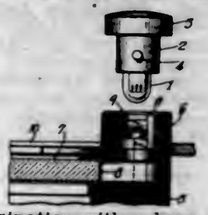
1. In a gyratory crusher of the type comprising a crusher bowl and a crusher head having generally upright cooperating crushing surfaces, elongated flexible means connected to the crusher head and arranged to suspend the same and movable in relation thereto during operation of the crusher to various relative angular positions with respect to the axis of the head, said head having an out of balance weight in its interior for exciting oscillations and means for rotating the out of balance weight.

2,171,430
MUSICAL INSTRUMENT
Fredray H. Kislingbury, Los Angeles, Calif., assignor to Emil E. Dopyera, Los Angeles, Calif.
Application July 26, 1937, Serial No. 155,665
7 Claims. (Cl. 179—109)



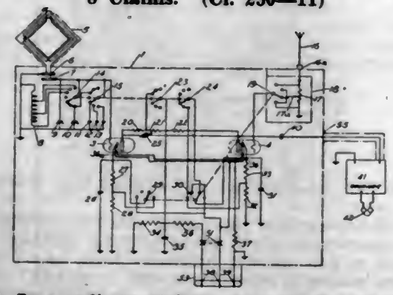
1. A pick-up for use on a stringed musical instrument having a vibratory part, the pick-up comprising a magnet having spaced pole pieces, induction coils around the pole pieces, a support member carrying the magnet and having spaced shoulders, an armature in the field of magnetic flux between the pole pieces and having longitudinally spaced portions in supporting engagement with said part, and cushions mounting the ends of the armature on the shoulders whereby the armature is supported independently of the pole pieces to be vibrated by the said part, one of said cushions being more yieldable than the other whereby the armature is more responsive to the vibrations of one end portion of the said part than to the vibrations of the other end portion of said part.

2,171,431
MINIATURE LAMP INSTRUMENT ILLUMINATOR SYSTEM
Paul Kollsman, Stamford, Conn.
Application October 15, 1937, Serial No. 169,121
5 Claims. (Cl. 176—32)



1. The combination with a lamp socket member having a passage therethrough; of a lamp and base assembly cooperating therewith, said assembly comprising a lamp bulb, a base having a finger grip portion and a pair of symmetrical engaging members attached to said base, the said socket member having interlocking members cooperating with the engaging members on said base to hold said bulb in place and simultaneously to complete an electric circuit thereto.

2,171,432
RADIO APPARATUS
Charles William Hicks, Hyattsville, Md., assignor, by mesne assignments, to Bendix Radio Corporation, New York, N. Y., a corporation of Delaware
Application July 12, 1935, Serial No. 31,084
8 Claims. (Cl. 250—11)

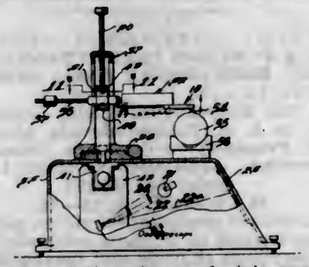


4. In a radio receiving apparatus the combination of a bi-laterally directional antenna, a substantially non-directional antenna, amplifying electrical discharge devices, each of which has an input and output circuit, connections between said directional antenna and one of said input circuits, connections between said substantially non-directional antenna and the other of said input circuits, means for selectively controlling the amplifying characteristics of said discharge devices while said input and output circuits thereof are energized for controlling the amplitude of the signal energy impressed from said input circuits upon the corresponding output circuits for obtaining bi-lateral or substantially uni-lateral signal reception.

2,171,433
SMOOTHNESS GAUGE
Ralph A. Powers, Grosse Pointe, Mich., assignor to Electronic Control Corporation, Detroit, Mich., a corporation of Michigan
Application February 9, 1937, Serial No. 124,949
7 Claims. (Cl. 73—51)

1. A surface gauge comprising a base, a fixture

on said base adapted to receive and to hold the test piece, ways on said base, a support adapted to move on said ways, a movable balanced beam, an electrical pickup device including a contact point carried by said beam and adapted to be held against the surface of the test piece at a predetermined pressure, means for moving said contact point relative to said surface at a uniform predetermined speed whereby said contact point is moved in response to the irregularities of said



surface and variations in an electric current are produced in response to said movements, an amplifying device electrically connected therewith and adapted to amplify the current so produced, a visual indicating device electrically connected with said amplifying device and adapted to respond to electric currents flowing therefrom, said indicating device including a ground glass screen mounted on said base and an oscillating mirror adapted to reflect a beam of light on said screen.

2,171,434
BEAM-TYPE HOUSING STRUCTURE
Earl J. W. Ragsdale, Norristown, and Albert G. Dean, Narberth, Pa., assignors to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania
Application April 14, 1934, Serial No. 720,650
23 Claims. (Cl. 105—399)

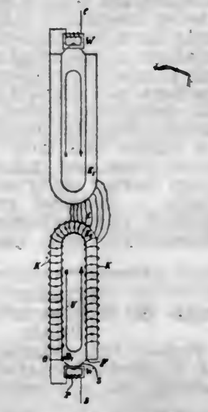


1. A beam type vehicle body having side trusses and deriving its strength principally through said side trusses but having a doorway intersecting a chord of one of said trusses, body reinforcements to transmit the loads from the section of said truss on one side of the doorway to the section thereof on the other side through portions of the body inwardly removed from said truss comprising beams in the structure of the body inwardly removed from said trusses, transverse members relatively widely spaced interconnecting said trusses in locations remote from the doorway and transverse members in greater number per unit of length interconnecting the side trusses and said beams in the region of the doorway.

2,171,435
ELECTRIC ARC FURNACE
Kurt Schneider and Hermann Schunck, Bitterfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Application January 23, 1937, Serial No. 121,988
In Germany January 28, 1936
1 Claim. (Cl. 13—11)

An electric arc furnace comprising two opposing electrodes of hairpin design, means for supplying a working current through and across the gap between said electrodes, and separate means, appurtenant and adjacent to at least one of said electrodes for generating a current of high intensity and low voltage which is superimposed on the working current, traverses only its appurtenant electrode and generates a field consisting of a series of circular lines of force closely surrounding said electrode along its length.

2,171,436
ELECTRIC ARC FURNACE
Kurt Schneider and Hermann Schunck, Bitterfeld, Germany, assignors to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany
Original application January 23, 1937, Serial No. 121,988. Divided and this application January 11, 1939, Serial No. 250,302. In Germany January 28, 1936
2 Claims. (Cl. 13—11)



1. An electric arc furnace comprising two electrodes, at least one of such electrodes being of hair-pin design, means for supplying a working current through and across the gap between said electrodes, a primary coil in the path of said working current and adjacent to said electrode of hair-pin design, a secondary coil inductively coupled with said primary coil and connected with the ends of said electrode of hair-pin design, said primary and said secondary being so dimensioned and arranged that the working current generates a current of high intensity and low voltage which is superimposed on the working

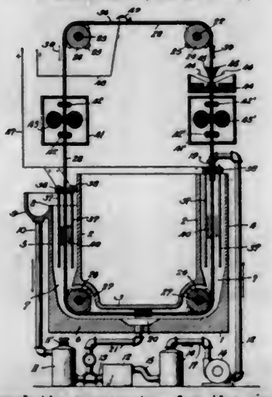
current, traverses only said electrode of hair-pin design, and generates a field consisting of a series of circular lines of force closely surrounding said hair-pin electrode along its length.

2,171,437

APPARATUS FOR THE ELECTROLYTIC PRODUCTION OF METALLIC SHAPES

Vernon L. Tannehill, Fort Wayne, Ind., assignor of twenty-five one-hundredths to Walter W. Lepper, Fort Wayne, Ind.

Application March 5, 1937, Serial No. 129,230
4 Claims. (Cl. 204—6)



1. Electrolytic apparatus for the production of metallic shapes, said apparatus consisting of a vat containing anodes and an electrolyte, a conveyer constituted of endless belts spaced apart provided with wheels located at points suitably distant above the vat for supporting and driving said belts at equal speed, said conveyer extending into said vat, a series of individual cathodes arranged in supported relation with said belts, said cathodes being constituted of metallic plates having opposite faces certain areas of which have thereon coatings of insulating material and other exposed areas thereof conforming to a definite selected pattern and adapted to receive thereon electrolytic deposits of metal whereby to form corresponding metallic shapes, members arranged to engage and strip said shapes after being formed from said cathodes, a continuous contact strip having electrical connection with each cathode, a contactor operably associated with said strip, and electrified conductors connected respectively with said contactor and anodes.

2,171,438

METHOD OF MANUFACTURING TIRE TREAD

John P. Tarbox, Philadelphia, Pa., assignor to Edward G. Budd Manufacturing Company, Philadelphia, Pa., a corporation of Pennsylvania

Original application March 5, 1936, Serial No. 67,190. Divided and this application March 11, 1937, Serial No. 130,266
7 Claims. (Cl. 154—14)



1. The method of manufacturing the rubber wearing body of wheels, such body containing granular material and bonding material intervened between the granular material and the rubber, which consists in first applying the intervened bonding material to the granular material in liquid form, then rendering the bonding material less liquid, and thereafter introducing the grains encased in bonding material to the rubber which is to constitute the wearing body of the wheel and bonding them thereto.

2,171,439

PROCESS FOR THE PRODUCTION OF REGULINE BERYLLIUM AND BERYLLIUM ALLOYS

Helmut von Zeppelin, Bitterfeld, Germany, assignor to I. G. Farbenindustrie Aktiengesellschaft, Frankfort-on-the-Main, Germany

No Drawing. Application November 13, 1937, Serial No. 174,351
13 Claims. (Cl. 75—84)

1. A process of producing beryllium metal which comprises heating an intimate solid mixture comprising beryllium chloride and magnesium in reactive proportions to temperatures sufficient to cause reaction of such mixture by a supply of heat transmitted from a medium inert with respect to metallic beryllium, and separating metallic beryllium from the saline residue.

2,171,440

GLOVE POCKET CONSTRUCTION

Margaret Attanasio, New York, N. Y.

Application June 16, 1939, Serial No. 279,549
3 Claims. (Cl. 2—160)



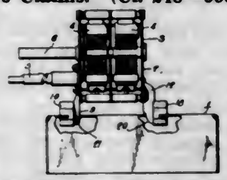
1. A glove pocket construction comprising a ply of material bent upon itself to form upper and lower glove sections, each section of said material having a free edge extending along one side only, a gusset extending along said side between said sections and joined to said free edges, and a pocket in said gusset, extending along said side.

2,171,441

TUNING CONDENSER MOUNTING

Gerald J. Barry, Philadelphia, Pa., assignor to Philco Radio and Television Corporation, Philadelphia, Pa., a corporation of Delaware

Application April 16, 1937, Serial No. 137,373
6 Claims. (Cl. 248—358)



1. Apparatus for mounting a tuning element of a radio receiver or the like, comprising a supporting base having openings therein, a tuning element unit, a mounting member having bifurcated feet carried by said unit at one end thereof, resilient members shaped to fit over said feet and adapted to interlock with said base at said openings to resiliently support said end, and means for resiliently mounting the opposite end of said unit on said base.

2,171,442

CASING PERFORATING DEVICE

Pink T. Bynum, Beeville, Tex.

Application August 13, 1936, Serial No. 95,906
12 Claims. (Cl. 164—0.4)



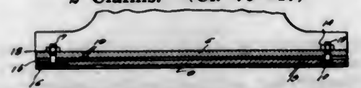
1. In a tool of the character described, a cylinder, a piston reciprocatingly movable within the cylinder, a fluid supply means connected with one end of the cylinder to effect movement of the piston, a punch, means for operatively connecting the punch with the piston for movement therewith, and said piston having ports extending therethrough parallel to the axis of the piston, upwardly opening valves for closing said ports, said valves having stems projecting above and below the piston, means cooperable with said stems for releasably securing the valves in open position, means in the cylinder below the piston and with which the lower ends of said stems are engageable upon downward movement of the piston to move the valves to open position, and means in the cylinder above the piston with which the upper ends of the stems are engageable for releasing the valves, and spring devices engaged with the valve stems for normally urging the valves to closed position on the piston.

2,171,443

SAW FILE

Phillip Farwell, Sunapee, N. H.

Application July 21, 1938, Serial No. 220,573
2 Claims. (Cl. 76—47)



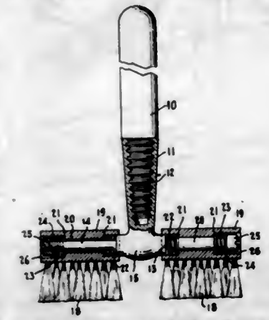
1. In a tool of the character described, an elongated body plate having a handle secured to one side thereof, said body plate having one longitudinal edge thereof rabbeted to provide at the underside of the body plate at said edge, a longitudinal groove, a file accommodated within said groove, and bolt and nut means engaged with the file and the body plate for securing the file to the plate and within said groove, and shim plates interposed between the file and the underside of the body plate for securing the file at the desired position of adjustment in spaced relation to the underside of the body plate, said file having an opening therein adjacent one end of the file to receive one of the bolts, and said file at the opposite end thereof being provided with an elongated countersink, and a slot for accommodating a second bolt used in securing the file to the body plate.

2,171,444

BRUSH

William Frank, New York, N. Y.

Application October 29, 1937, Serial No. 171,775
2 Claims. (Cl. 15—160)



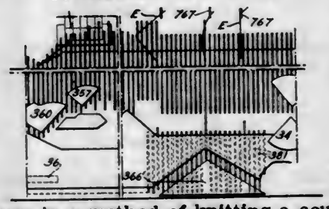
1. In a brush structure of the type described, an operating handle, a T-shaped member, means for associating said T-shaped member in said operating handle, laterally extending shafts carried on said T-shaped member, slidable spring-pressed members carried on said shafts, springs on each end of each shaft, brushes comprising block portions and bristle portions, said block portions having openings formed therein and extending therethrough adapted to receive said laterally extending shafts, said springs being disposed in countersunk portions formed in each side wall of said block, said brushes being adapted to be rotatably carried on said shafts positioned between said springs whereby said brushes are yieldably held in position during rotation on said shaft.

2,171,445

METHOD OF KNITTING FABRIC WITH ELASTIC INLAY AND EMBROIDERY PATTERN

James L. Getaz, Maryville, Tenn.

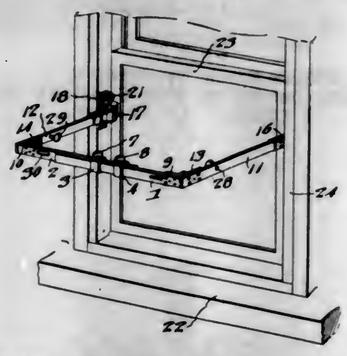
Application March 12, 1938, Serial No. 195,634
10 Claims. (Cl. 66—9)



1. Steps in a method of knitting a course of a fabric comprising raising alternate cylinder needles of a circular knitting machine in advance of the usual knitting wave, feeding a rubber thread in front of and below the latches of the raised needles and in back of the intermediate needles, feeding embroidery yarns to selected

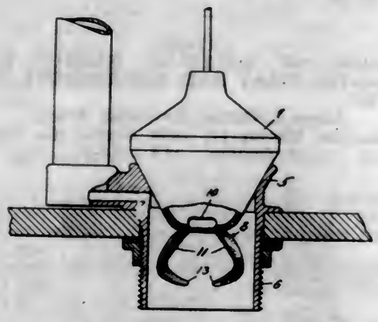
needles and operating all needles to take the are yieldably held in position during rotation on main or body yarn or yarns and to cast off.

2,171,446
WINDOW CLEANER'S GUARD
Charles Hines, New York, N. Y.
Application August 6, 1937, Serial No. 157,772
4 Claims. (Cl. 20—71)



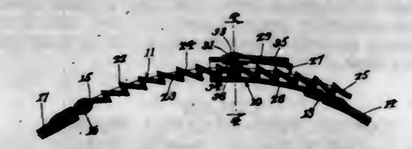
1. A window cleaner's guard structure comprising, a pair of transverse bar members extensively and adjustably connected together, side bars hingedly mounted at the free ends of the bar members and swingable inwardly to lie against the inner side of the bar members, means to detachably connect the free ends of the side bars on opposite sides of a window opening, said side bars being foldable into proximity to the bar members when the guard structure is detached, and means connecting between the transverse and the side bars to hold said side bars in the folded position.

2,171,447
GUIDE FOR FLUSH TANK VALVES
Frank M. Heath, Silver Spring, Md.
Application April 27, 1938, Serial No. 204,675
4 Claims. (Cl. 4—56)



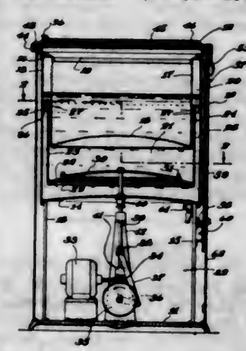
1. A rotor for the ball valves of flush tanks, comprising a body portion adapted to be positioned on a ball valve, blades extending from the body portion, guides carried by the blades and extending below the body portion, and said guides adapted to engage the valve seat of the flush tank with which the ball valve is associated, as the valve descends, and guide the ball valve to its seat.

2,171,448
BUCKLE
Ireneus Basil Holtz, Ashville, Pa.
Application May 2, 1938, Serial No. 205,633
1 Claim. (Cl. 24—206)



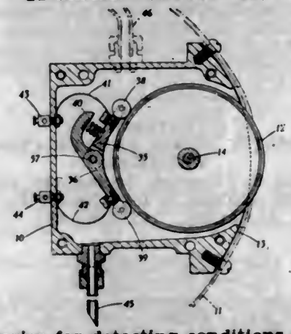
In a separable fastener comprising a sleeve having a transverse slot in one wall, a lever pivotally mounted on the sleeve and having a finger projecting through the slot into the sleeve, means for pivotally mounting the lever at the ends of the slot, said finger adapted to engage an end of a strap received by the sleeve when said lever is located in flat contact with the sleeve for locking the end of the strap to the sleeve, the pivotal mounting for the lever including flat trunnions at the opposite sides of the lever and movable within the ends of the slot, an outer flat spring extending across each end of the slot and having the opposite ends secured to the outer face of the sleeve, an inner flat spring extending across each end of the slot and having the opposite ends secured to the inner face of the sleeve in parallel relation with the first-mentioned springs, the trunnions being located between the pairs of parallel springs so that the springs will exert a pressure on said trunnions at all times, the inner springs supporting the trunnions at the slot, said finger adapted to be disposed horizontally in the slot and in the same plane with the wall containing the slot when the finger is in an inoperative position.

2,171,449
APPARATUS FOR TREATING ARTICLES WITH FLUID
George Kuhn, Takoma Park, Md.
Application June 4, 1935, Serial No. 24,828
12 Claims. (Cl. 68—190)



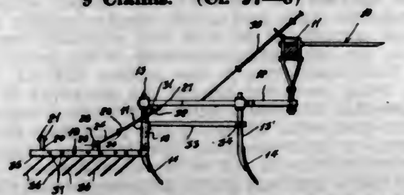
1. A machine for treating articles with fluid comprising a container, a stationary apertured compartment for articles to be treated in the container having its walls spaced from the container, and a piston operable in the container below the compartment, the piston having a skirt operable in the space between the side walls of the container and compartment, said skirt having a portion provided with one or more fluid outlet openings through which fluid is projected into the compartment.

2,171,450
MEANS FOR DETECTING ICE FORMING CONDITIONS, PARTICULARLY WHEN ENCOUNTERED BY AIRCRAFT
Thomas Winsmore Langley, Osterley, England, assignor to Tecalemit Limited, Brentford, England
Application August 17, 1938, Serial No. 225,428
In Great Britain July 22, 1937
14 Claims. (Cl. 200—52)



6. A device for detecting conditions of ice formation on aircraft and the like, and including a housing element having an exposure opening, a rotatable member mounted in said housing element in position for exposure of successive portions of the periphery of said member through said opening whereby the member may accumulate ice on its periphery under ice forming conditions, means for rotating said member, the periphery of said member being of electrically conducting material, and a pair of contacts normally engaging the conducting periphery of the member.

2,171,451
RAKE ATTACHMENT FOR CULTIVATORS
Frank Madden, Earlville, Ill.
Application March 10, 1938, Serial No. 195,139
9 Claims. (Cl. 97—8)



1. A device of the class described comprising a beam, hangers depending from either end of said beam, rakes pivotally connected to said hangers and extending rearwardly therefrom, and the free ends of said rakes being pivotally connected by means of a link, said device being adapted to be attached to a plow standard.

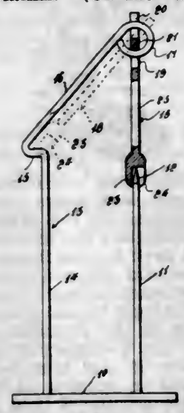
2,171,452
SEAMLESS KNITTED STOCKING AND METHOD OF PRODUCING SAME
Harry McAdams, Reading, Pa., assignor to Nolde and Horst Company, Reading, Pa., a corporation
Original application March 23, 1933, Serial No. 662,354. Divided and this application February 12, 1934, Serial No. 710,922
11 Claims. (Cl. 66—180)

2. A seamless knitted fabric consisting of a plurality of yarns knitted in plated relation and knitted in designated areas in reversely plated diamond patterns, and one or more additional patterning yarns wrap knitted in the stitches of



the fabric made by said first mentioned yarns in diagonally striped complementary bordering relation with the reversely plated diamond patterns.

2,171,453
STICK FILE
James H. Milling, Dallas, Tex.
Application March 2, 1939, Serial No. 259,439
6 Claims. (Cl. 129—23)

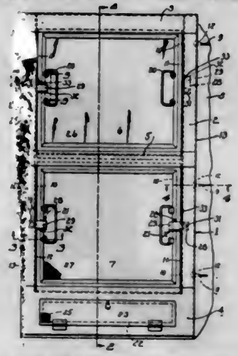


2. A stick file comprising a base, a pin secured to said base and having its free end projecting upwardly, an arm secured to and projecting from said base and terminating in a loop disposed above and spaced from the free end of said pin, and a guard member having spaced slots at one end thereof forming a transverse bar therebetween for loosely engaging said loop to pivotally mount said member, the opposite end of said member being provided with a recess opening outwardly of one side and of the bottom thereof to receive the free end of said pin when in a normal depending position.

2,171,454
COMBINATION STORM AND SCREEN SASH
Ella May Porter, Shaker Heights, Ohio
Application January 17, 1938, Serial No. 185,450
3 Claims. (Cl. 189—76)

1. A storm window comprising a metal sash

frame having hollow side and cross members defining panel openings, panels fitting snugly in said openings, the side members of sash frame



having cam slots therein, latch members pivotally mounted in said slots and movable outwardly therefrom into latching engagement with said panels.

2,171,455

SLIDER FOR HOOKLESS FASTENERS

John P. Roadfuss, Philadelphia, Pa., assignor to Philstan Products Company, Philadelphia, Pa., a corporation of New Jersey

Application June 27, 1938, Serial No. 216,109

4 Claims. (Cl. 24—205)



4. A slider comprising confronting wings connected by a neck, said wings having Y-shaped grooves the terminals of the branches of which extend to approximately the junction of said neck and wings, said neck having flanges disposed between said wings and engaged in the branches of said grooves, the outer surface of said wings being ribbed correspondingly to said grooves, said wings having openings in the included angle between the branches of the Y-shaped grooves and adjacent the junction of said branches, and one of said wings having an opening at the terminal of the Y-shaped groove, and a rivet having a stem extended through the first-named openings and an angular extension provided with a nib engaging in the last-named opening, said rivet being adapted for the reception of a pull-tab.

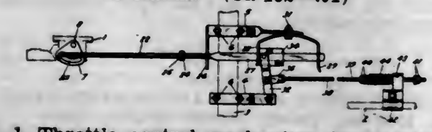
2,171,456

THROTTLE CONTROL MECHANISM

Edward J. Sampson, Calamus, Iowa

Application April 13, 1937, Serial No. 136,594

15 Claims. (Cl. 192—.01)



1. Throttle control mechanism for a tractor comprising supporting means to be mounted upon the tractor and support the mechanism thereon; reciprocable means for actuating the throttle valve of an internal combustion engine to closed position; friction means slidable on the reciprocable means but capable of gripping the reciprocable means sufficiently to cause reciprocation thereof; rod-gripping means to engage the clutch rod of the engine and be reciprocated thereby; a link cooperating with said rod-gripping means; and connecting means connecting the link to the friction means whereby reciprocatory movement of the clutch rod may be transmitted through the rod-gripping means, the link, the connecting means, the friction means, and the reciprocable means to the throttle shaft.

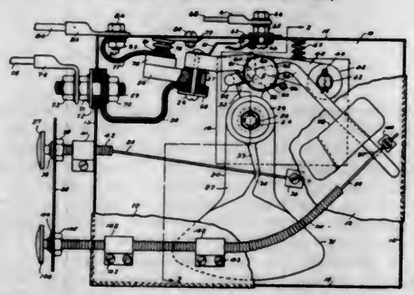
2,171,457

AUTOMATIC AUTO SAFETY CIRCUIT BREAKER

Wilton S. Schuyler, Springfield, Ohio

Application January 5, 1937, Serial No. 119,106

11 Claims. (Cl. 180—82)



1. A gravity operated circuit control device by which the battery circuit of a motor vehicle is automatically opened and maintained open and the generator circuit thereof short circuited to ground and so maintained upon tilting motion of the vehicle to abnormal degree, including a pendulum mounted for swinging motion in alternate directions, a concentric segmental extension carried thereby, a duofunctional spring actuated pendulum brake and circuit breaker pivoted arm, a lug carried by the arm and normally bearing upon the segmental extension of the pendulum to frictionally retard free motion thereof, said lug being projected beyond the extremity of the segmental extension into interlocking engagement therewith whenever the pendulum swings beyond a predetermined intermediate range in either direction, a pair of electrical contacts carried by the arm and alternately opened and closed by movement of the arm into and out of interlocking relation with the pendulum, and a duofunctional spring means subjecting said pivoted arm to braking pressure upon the pendulum and maintaining one of said contacts in closed relation with its mating contact when the arm is in braking relation with the pendulum and maintaining the other of said contacts in closed relation with its mating contact when the arm is in pendulum locking relation, to alternately maintain the battery circuit and the generator circuits respectively in closed condition.

2,171,458

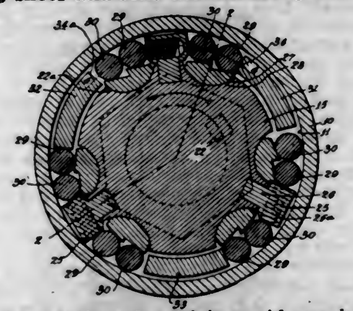
DRIVE-LOCK MEANS

Guy E. Swartz, Detroit, Mich.

Application November 28, 1938, Serial No. 242,701

10 Claims. (Cl. 192—8)

1. A drive-lock means including, a member for driving a mechanism, a driving means for said member including a plurality of individually movable compensatingly mounted members comprising shoes and rolls thereon brought into co-



operative relations for driving said member and frictionally locking said member against reversing at the end of an operation thereof.

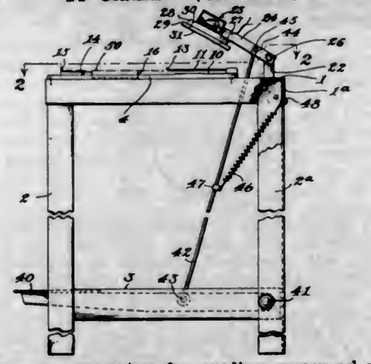
2,171,459

APPARATUS FOR AND METHOD OF SEALING WRAPPED PACKAGES

Walter S. Thompson, Philadelphia, Pa., assignor, by mesne assignments, to Marshall & Ilsley Bank, Milwaukee, Wis., a Wisconsin bank

Application September 22, 1936, Serial No. 102,032

14 Claims. (Cl. 93—2)



1. In an apparatus for sealing wrapped packages, the combination of a support, ironing mechanism mounted on said support, a package supporting receptacle mounted for reciprocating movement on said support and slidably movable into two positions respectively toward and away from said ironing mechanism, and means for moving said ironing mechanism into engagement with the package carried by said receptacle when the latter has been moved into position towards said ironing mechanism, whereby to seal together predetermined portions of said wrapped package.

2,171,460

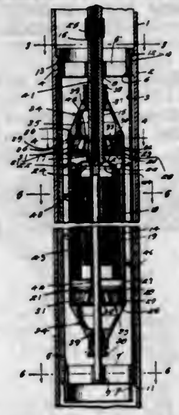
DEEP WELL MOTOR PUMP

Leo R. Thrasher, San Jon, N. Mex.

Application June 18, 1938, Serial No. 214,541

4 Claims. (Cl. 103—87)

1. A well pumping unit for a well having a tubular casing extending thereinto, comprising a tubular shell extensible into the casing and having a constant interior diameter, means for suspending the shell in the casing, a shaft fixed in and extending centrally longitudinally through said shell, the shaft extending at its upper end beyond the top of the shell, means at the upper end of said shaft for attaching a suspension and lowering element thereto, an electric motor having a central stationary armature encircling said shaft and secured thereto and a rotor enclosing the armature, a casing encircling the rotor and having its ends tapered in toward and having water tight connection with said shaft, bearings



in the ends of the casing and encircling the shaft and coupling the casing therewith for suspension thereon, means for supplying current to said motor through the suspension means and through the upper end of the shaft to effect the rotation of the rotor, and a screw encircling said rotor casing and having its periphery in close proximity with the interior of the tubular shell.

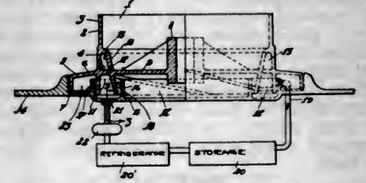
2,171,461

WATER-COOLED WIRE BLOCK

Carl E. Tideman, Worcester, Mass., assignor of one-half to Verner G. Anderson, Worcester, Mass.

Application May 18, 1938, Serial No. 208,633

8 Claims. (Cl. 205—20)



1. In a wire drawing apparatus, a wire block rotatable about a vertical axis, said block having a rim about which a wire is coiled, means beneath the block having a recess for a pool of cooling fluid, and webs on the block and engageable with the fluid in the recess for directing cooling fluid against the rim as the block rotates.

2,171,462

ADVERTISING AND DISPLAY SIGN

William Ashford Clayton Trollope and Leonard Elliott Morley McVicar, Coogee, near Sydney, New South Wales, Australia

Application March 13, 1939, Serial No. 261,586

In Australia, March 8, 1938

8 Claims. (Cl. 40—32)

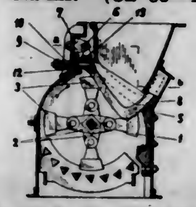
1. An advertising and display sign comprising a casing, spaced flexible endless bands mounted for travel in the said casing, and advertising

and display elements detachably secured to and movable with said bands, said elements being



wholly flexible and fully shaped individually to represent letters and like symbols.

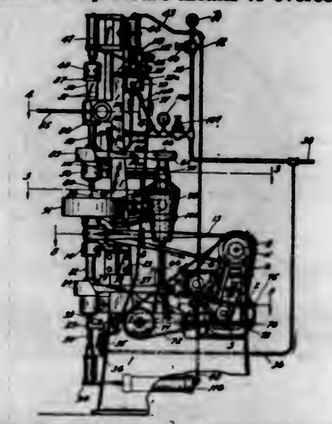
2,171,463
HAMMER CRUSHER WITH ADJUSTABLE RESILIENT FEED GRATE
Leo Tschauner, Brunn, Moravia, Czechoslovakia, assignor to the firm of Limited Company formerly The Skodaworks Pizen, Prague, Czechoslovakia
Application May 25, 1938, Serial No. 209,881
In Czechoslovakia December 6, 1935
2 Claims. (Cl. 83—11)



1. A hammer crusher, comprising a housing, a rotor in said housing, crushing hammers carried by said rotor, a basket-shaped feed grate disposed above said rotor, said feed grate having a plurality of independently movable bars extending in planes at right angles to the rotor axis and intersecting the periphery of the hammer path, each of said bars being bent to form an angle between 60° and 90° and having one end thereof pivoted to one side of said housing, the other end being adapted to move towards and away from the rotor axis along the opposite side of the housing, guide tracks on said opposite side of the housing of a shape and length to guide the movable ends of said bars over the entire length of their movement, abutment means to define the innermost positions to which said bars may be tilted, means to adjust said abutment means to different positions to vary the blow stroke of the hammers onto the grate, and independent resilient means associated with each of said bars to retain the same in the adjusted innermost position, whereby each of said bars may yield to blows from within the housing exceeding a predetermined maximum independently from the other bars.

2,171,464
BLANKING MACHINE
John Weber, Jr., Walter F. Weber, and Charles F. Weber, Muscatine, Iowa, and John Weber, Sr., deceased, late of Muscatine, Iowa, by John Weber, Jr., and Walter F. Weber, executors, Muscatine, Iowa
Application August 24, 1936, Serial No. 97,650
14 Claims. (Cl. 79—7)

1. A machine for the purpose indicated comprising a pair of grinding wheels spaced apart a suitable distance to simultaneously operate upon opposite portions of shell material to produce a blank of the size desired, a holding spindle between the wheels and movable transversely of the plane of rotation of the wheels, fluid pressure means for normally advancing the point of the spindle beyond the surface of the grinding faces of the wheels, fluid pressure means opposing the first named pressure means and capable of exerting greater pressure than the first named pressure means, manual means for causing the second mentioned fluid pressure means to overcome the



pressure of the first mentioned fluid pressure means, and actuating mechanism to cause rotation of said grinding wheels.

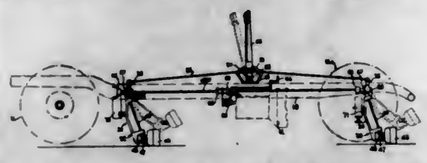
2,171,465
GRINDING MILL
William A. Weidlich, East Bound Brook, N. J.
Application April 27, 1937, Serial No. 139,181
1 Claim. (Cl. 83—22)



In a device of the character described for grinding pigments and similar substances in a fluid vehicle, and especially adapted to eliminate objectionable agglomerates, the combination of a roller mounted to rotate on a horizontal axis, a shoe having a face co-acting with the peripheral surface of the roller which is above the horizontal plane of its axis, said shoe having a limited automatic up-and-down movement during the operation of the device, said roller and shoe being provided with ground-together co-acting surfaces, secured by rotating the roller within the shoe with a suitable abradant, a chamber formed within the shoe, a crushing roller mounted therein and partaking of the said up-and-down movement, and means for delivering material between the peripheral surfaces of the two rollers located adjacent its entrance beneath the shoe, and in the direction of rotation of the two rollers.

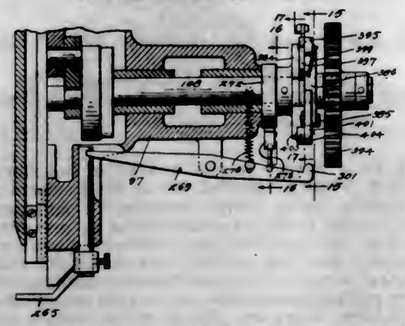
2,171,466
VEHICLE PARKING DEVICE
Gustave Yanecsik, Brooklyn, N. Y.
Application March 28, 1938, Serial No. 198,552
2 Claims. (Cl. 180—1)

1. In combination with a vehicle of the type described having an elongate essentially rectangular chassis frame mounted on a plurality of traction wheels, said frame carrying and having mounted thereon an engine associated with said wheels adapted to move said vehicle, normally, in one direction over a surface whereon the vehicle rests, a parking device adapted to move said vehicle in a direction substantially at right angles to its normal direction of movement, said device comprising a plurality of members each of modified L-shape, one of said members being pivoted at one end thereof to said frame near each corner thereof, the free ends of said members being adapted to being dropped during movement of said vehicle whereby, through engagement of said free ends with the surface whereon the vehicle is traveling, said vehicle is raised, due in part at least to the vertically acting component of force resultant from the kinetic energy of the moving vehicle dissipated by engagement of said members with said surface, lifting said traction wheels from said surface, locking means associated with said members for retaining said vehicle in raised position, said locking means comprising rods connecting said members and simultaneously movable therewith, a pivoted shifting lever connected with and adapted to actuate said rods, an arcuately curved toothed rack positioned adjacent said lever, a spring pressed pawl carried



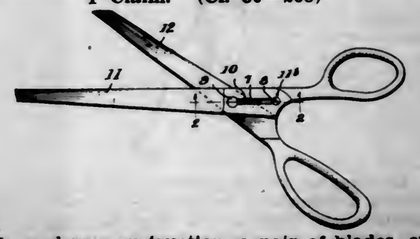
on said lever engageable with said rack adapted to hold said lever in any selected one of several positions; means for imparting movement to said vehicle in a direction different from its normal direction of travel, while said vehicle is in raised position, said means comprising a plurality of auxiliary traction wheels, one of said wheels being rotatably mounted on the free end of each of said members and being engageable with the surface whereon the vehicle rests when said vehicle is in raised position, and means for connecting said auxiliary traction wheels with the engine of said vehicle, said means comprising at least one power-driven shaft, rotatably mounted on and extending lengthwise of said vehicle frame, associated with and operated by said engine, shafts rotatably mounted in each of said L-shaped members, gears operably connecting said shafts with said power-driven shaft and means operably connecting said shafts with said auxiliary traction wheels whereby said wheels can be rotated by said engine.

2,171,467
SAFETY CONTROL
Rudolph E. Zerunelth, New York, N. Y.
Application April 13, 1939, Serial No. 267,739
20 Claims. (Cl. 192—134)



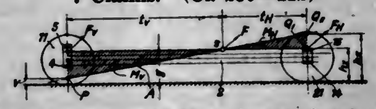
1. In a safety control for use in connection with the driving structure having an element moving in an operative path, a vertically movable slidably mounted spring urged ring guard structure exploring said operative path, a clutching means for and adapted to operatively connect said driving structure to an operating means therefor, a normally inactive means for controlling the clutching means for said operating means and including parts automatically made active on the interposition of a foreign body in said path engaged by said ring guard structure to automatically disconnect said clutching means, when the latter is active, from said operating means.

2,171,468
SHEARS AND SCISSORS
Fred D. Blodgett, Randolph, Maine
Application October 13, 1937, Serial No. 168,700
1 Claim. (Cl. 30—268)



In a shear construction, a pair of blades, one of said blades fashioned with pivot pin and adjusting screw openings respectively and with an elongated longitudinally extending channel equipped with a bottom wall and effecting communication between said openings, a pivot pin extending through said pivot pin opening and fashioned with a slot in the peripheral face thereof, an adjusting screw within said adjusting screw opening, and a leaf spring entirely within said channel and fashioned with an offset section engaging said bottom wall, said spring having a pair of ends extending within said slot of said pivot pin and underlying and engaging said adjusting screw respectively whereby the tension exerted by said adjusting screw on said spring serves to maintain said blades in tensioned condition relative to each other, said pivot pin, said adjusting screw and said spring so constructed and arranged within said openings and said channel to preclude any parts of said pin, screw and spring from extending beyond the outer face of said blade.

2,171,469
AUTOMOBILE
Walter Boxan, Chemnitz, Germany, assignor to Auto Union Aktiengesellschaft, Chemnitz, Germany
Application April 6, 1937, Serial No. 135,342
In Germany April 6, 1936
7 Claims. (Cl. 280—112)



1. In a motor vehicle, a frame, front wheels spring mounted independently upon the frame and guided approximately parallel to themselves, rear wheels, swinging half axles carrying said rear wheels, means mounting said half axles upon the frame and affording a variable center of oscillation whereby the effective tilting arm of the rear

wheels is decreased to such an extent that when travelling round curves, the rear part of the vehicle tends to be inclined at a higher center of rotation.

2,171,470
ATTACHMENT TO TYPEWRITER KEYS
Luis Muñoz, Santiago, Chile
Application June 21, 1937, Serial No. 149,509
1 Claim. (Cl. 197—36)



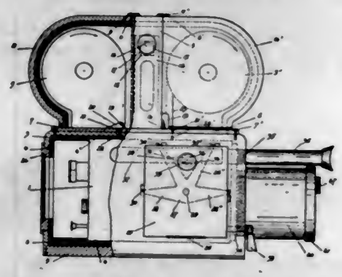
An attachment adapted for use with the type bars of a typewriter comprising, a type bar head permanently fixed to the type bar and having type thereon, a tongue extending upwardly from said head, a complementary piece having type on one face thereof, said piece having a groove therein for receiving said tongue, the upper portion of said head having a recess therein, an arcuate shaped projection carried by said piece adapted to engage said head within said recess, a lever rotatably mounted within said groove having a hook-shaped end, and said tongue having a cut-out portion for receiving the hooked end of said lever whereby the type carried by said complementary piece and the type arranged on said type bar head may be selectively used in typing a message on paper in the typewriter.

2,171,471
FOUNTAIN ATTACHMENT FOR FAUCETS
Joseph P. Brunetti, Clarksburg, W. Va.
Application January 14, 1938, Serial No. 185,050
1 Claim. (Cl. 299—9)



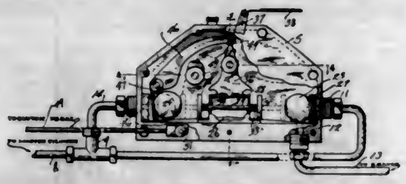
A fountain attachment for faucets comprising a single piece sleeve of resilient material having a bore adapting the same for fitting rotatably over the discharge end of the faucet and upward and downward adjustment thereon, and an upwardly inclined spout portion extending from one side thereof and including a passage communicating at its lower end with said bore adjacent the lower end of the latter whereby said passage may be opened and closed by said faucet under adjustment of said sleeve downwardly and upwardly to different positions, said sleeve having a partitioning screen in the bore thereof immediately below said lower end of the passage coacting with said faucet under upward adjustment of the sleeve to establish the closing position of the latter, the bore below said screen being reduced in diameter to restrict the discharge of water from said sleeve whereby when the sleeve is adjusted to open the passage water above said screen is caused to jet from said spout portion, said spout portion terminating flush with the upper end of the sleeve for location under the faucet in a rearwardly extending out-of-the-way position under rotation of the sleeve.

2,171,472
MOVING PICTURE CAMERA
Maurice Albert Dalotel, Deuil, France, assignor to Suzanne Rosalie Mathot, Paris, France
Application June 21, 1938, Serial No. 215,013
In France June 29, 1937
4 Claims. (Cl. 88—17)



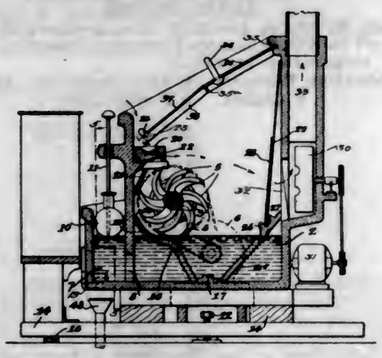
1. Sound insulating box made of plastic material lined with rubber for motion picture cameras, consisting of three detachable parts comprising a base plate, a removable hood moulded in one piece and a magazine housing removably mounted on the upper flap of said hood and comprising a supporting plate, a central post integral with said plate and two shells hinged on said central post, two slits provided in the upper flap of the hood and in the supporting plate of the magazine housing for the passage of the film, rectangular recesses provided in the rubber lining of the base plate and of the upper flap of the hood which closely fit around the top and bottom of the camera, a glass door in the front wall of the hood facing the object lens of the camera and a door for the access to the camera in the side wall of said hood.

2,171,473
BRAKING MECHANISM
Joseph Erbel, San Francisco, Calif.
Application August 17, 1937, Serial No. 159,575
3 Claims. (Cl. 192—4)



1. In a device of the character described, a hollow casing connected to the fluid system of a hydraulic brake, valves mounted in said casing, said valves being so arranged as to prevent release of the brakes of the motor vehicle after the pressure has been applied, and means for releasing one of said valves, said means including a fork lever engaging said valve and a cam engaging said fork lever when the clutch of the vehicle is released.

2,171,474
ETCHING APPARATUS
Axel Holmström, Monte Carlo, Monaco, assignor to Harry Axel Holmstrom, Ronninge, Sweden
Application April 17, 1935, Serial No. 16,901
12 Claims. (Cl. 41—9)



11. In a spray-type etching machine, the combination of a container, a reservoir chamber in said container for the etching fluid, rotatable spraying means disposed in said chamber in cooperative relation with the etching fluid therein, a float chamber in communication with said reservoir chamber, a float in said float chamber for controlling the level of the fluid in said reservoir chamber, a fluid cleaning chamber arranged cooperatively with the aforesaid chambers, and fluid-draining means arranged cooperatively with said chambers, whereby the fluid may be drained from said chambers.

2,171,475
METHOD OF FIXING CLOTH FINISHES
Hilton Ira Jones and Llewellyn Jones, Wilmette, Ill.
No Drawing. Application December 8, 1936, Serial No. 114,832
1 Claim. (Cl. 91—68)

The method of treating textiles to affix a finish, consisting of immersing the textile in a bath of 1 to 3 percent cornstarch, 2½ to 7½ percent stearate soap and approximately 95 percent water, wringing the textile to remove the surplus bath solution, again immersing the textile in a bath of rare earth acetates of 1 to 5 percent concentration, wringing the textile to remove the surplus solution of the second bath, and drying the wrung textile.

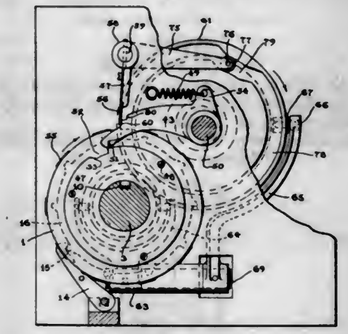
2,171,476
COVER FOR UMBRELLAS, PARASOLS, AND SUNSHADES
Charles Katz, Baltimore, Md.
Application December 21, 1936, Serial No. 117,046
3 Claims. (Cl. 135—33)

1. In umbrellas, a bendable cover comprising a polygonal-shaped body having its outer marginal portion inturned against its inner face, a series of narrow reinforcing strips positioned against said inturned marginal portions and the inner face of said body, said strips each comprising a longtudinally folded strip having the free edges thereof directed outwardly, each free edge being folded inwardly with the folded edges in confronting relation, the depth of the second fold being less than the depth of the first fold, stitching engaging through said second folds and said inturned marginal portion, and stitching engaging through said first fold and said body inwardly of said inturned marginal portion.



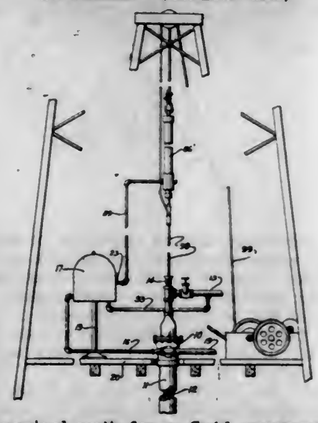
3. As a covering for an umbrella or parasol, a one-piece water-shedding transparent and translucent body formed of synthetic material, said body being provided with a substantially central opening for the passage therethrough of the umbrella or parasol stick, said body at said opening and on its under side having firmly adhesively secured thereto a reinforcing disc of like material, said disc provided with an axial opening and said opening aligning with the said opening in the body, the inner edge of the disc and of the body being further reinforced by stitching disposed closely adjacent said apertures.

2,171,477
COUNTER TRANSFER AND CLEARING MECHANISM
Eugene M. La Boiteaux, Washington, D. C.
Application December 2, 1935, Serial No. 52,604
17 Claims. (Cl. 235—133)



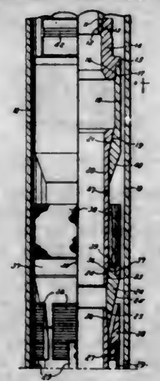
15. In mechanism of the class described, a continuous rotary shaft, two counter members of successive orders carried by the shaft, means carried by the shaft for rotating the counter members when the same are free to rotate, means normally holding the counter members against rotation with the shaft including a latch for each counter member, said latches being adapted to be operated to release the counter members to permit rotation thereof by said shaft, and means associated with the counter members and adapted to be actuated by the counter member of the lower denomination for operating at least the digit carrying portion of the counter member of the higher denomination for causing rotation thereof by said shaft without operating the latch and while the latch is in its holding position.

2,171,478
MEANS FOR FLOWING FLUIDS UNDER PRESSURE
Jeddy D. Nixon, Houston, Tex., assignor of one-half to Wilson Supply Company, Houston, Tex., a corporation of Texas
Application May 5, 1938, Serial No. 206,101
24 Claims. (Cl. 103—232)



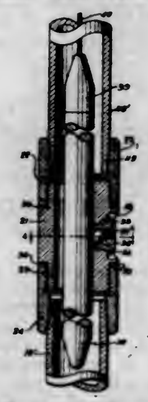
1. A control unit for a fluid pressure flowing apparatus including, a high pressure fluid supply conductor, a supply valve having a metering seat for reducing the fluid pressure, a feed conductor extending from said valve, a feed valve connected in said feed conductor, means for actuating said supply valve, means for actuating said feed valve, means for by-passing a portion of the reduced pressure fluid to the actuating means of the supply valve, and means for intermittently supplying the by-passed fluid to the actuating means of the feed valve.

2,171,479
WELL PACKER
Jeddy D. Nixon, Houston, Tex., assignor of one-half to Wilson Supply Company, Houston, Tex., a corporation of Texas
Application July 21, 1938, Serial No. 220,484
13 Claims. (Cl. 166—12)



1. A packer including, a tubular support, a packing element on the support, means on the support for gripping a casing wall for arresting the downward movement of the packer, packing expanding means slidably mounted on said support, and releasable fastening means for securing said expanding means to said support in its inoperative position and releasable to permit the expanding of said packing element.

2,171,480
FLOW DEVICE
Jeddy D. Nixon, Houston, Tex., assignor of one-half to Wilson Supply Company, Houston, Tex., a corporation of Texas
Application February 24, 1939, Serial No. 258,119
6 Claims. (Cl. 103—232)



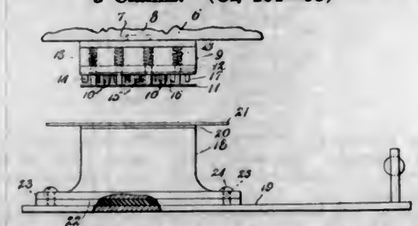
1. A flow valve for a well including, an elongate body adapted to be connected in the well tubing and formed with a bore extending therethrough, an inlet port in said body providing communication between the outside and the bore of said body for admitting fluid into said body, a valve cage in said port having a passageway therethrough, a ball valve in said cage for opening and closing the passageway of said cage, said ball valve normally being in an opened position and arranged to be closed by the passage of fluid through said passageway of said cage and to be opened from the surface of the well, surface controlled operating means movable into said body for opening said ball valve to permit the passage of fluid through said passageway, and a guide within the bore of said body for guiding said means into said body.

2,171,481
SIGNAL DEVICE
Benjamin D. Pickering, Pomona, Calif.
Application March 29, 1938, Serial No. 198,778
2 Claims. (Cl. 88—80)



1. A signal device to be carried on the wrist of the user, comprising a supporting frame of resilient material having a bowed connecting portion and spaced apart parallel terminal members formed integral therewith, whereby the parallel members will adjust themselves to the opposite sides of the wrist, each of said parallel members having a hole through the intermediate portion thereof and turned outwardly at its end to form a spring clip, and crystals attached to the parallel members of the supporting frame, each crystal having a lug engaging the hole with the outer end of the crystal in engagement with the spring clip.

2,171,482
PERFORATING MACHINE
Stig E. Rosenberg, Brockton, Mass.
Application February 8, 1938, Serial No. 189,370
3 Claims. (Cl. 164—93)



3. In a perforating machine, the combination with a perforating die, a die striking plate between which the work is impaled on the cutting edges of the die, a work supporting surface upon which the work is mounted, and a work clamp having an internal window therein, of a plurality of rigid pins, mounted on the die within the area bounded by the window and outside the area bounded by the work, each pin having a striking plate impact surface arranged in the plane of said edges.

2,171,483
GOLF CLUB
Albert A. Simonton, Atlanta, Ga.
Application February 7, 1936, Serial No. 62,834
6 Claims. (Cl. 273—80)



1. A golf club embodying a head proper and a neck portion formed of an integral wooden body whose grain runs substantially at right angles to the striking face of the head, a shaft extending upwardly through a bore in the head proper and neck portion at substantially right angles to the wood grain, an abutment rigid with the shaft having a substantially flat end portion extending from the bore to the outer edge thereof engaging the upper extremity of the neck portion, and means connecting with the lower end of the shaft and engageable with the under portion of the head to clamp the head axially of the shaft.

2,171,484
FILTERING DEVICE
Alfred Eustace Squire, London, England
Application July 1, 1937, Serial No. 151,538
In Great Britain December 17, 1936
4 Claims. (Cl. 210—204)



1. A method of forming a filtering device comprising taking a sheet of filter paper of substantially semicircular shape with a flange projecting along its diametrical line, folding said sheet about a radial line perpendicular to said diametrical line so as to form two quadrants of a circle, securing together the superimposed parts of said projecting flange portion, folding said secured flange portions about said diametrical line and then opening said two quadrants to form a conical structure.

2,171,485
TREATING ARTIFICIAL FILAMENTS
Hendrik Gerardus van der Waals and George Ephraim Jacob Wiessing, Arnhem, Netherlands, assignors, by mesne assignments, to American Enka Corporation, Wilmington, Del., a corporation of Delaware
Application March 16, 1933, Serial No. 661,084
In Germany March 21, 1932
2 Claims. (Cl. 18—8)



1. An apparatus for collecting artificial silk comprising in combination a spinning pot which is circular in cross-section and a member of generally similar cross-section located within the pot and being of substantially the same height as the inner wall thereof but unattached to said inner wall, the member being provided with recesses in its outer wall to form spaces between the inner wall of the pot and the corrugated member to facilitate simultaneously removal of the member with a thread package formed therein and having inwardly projecting portions of such conformation as to produce a corrugated, endless inner embracing wall, thereby causing said member to form corrugations of sufficient size and shape to introduce slack throughout all parts of the thread package wherein resistance to contraction would otherwise occur whereby when the package is formed and dried, uniform shrinkage is produced.

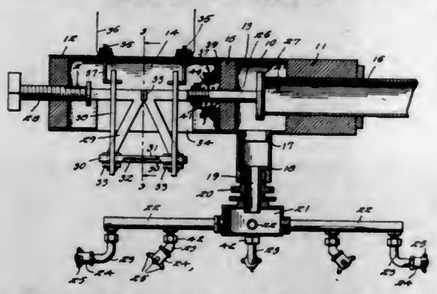
2,171,486
SEALING WAX APPLICATOR
Francis M. Van Fleet, Elkhart, Ind.
Application May 25, 1938, Serial No. 210,023
2 Claims. (Cl. 219—21)



1. A sealing wax applicator of the character de-

scribed, comprising an elongated tube having an upper handle portion and a lower heat chamber portion, a series of annular corrugations forming a heat dissipating surface on said heat chamber portion, a concentric tube mounted within and spaced from the elongated tube, heat insulating material mounted between the elongated tube and concentric tube, a pair of electric heating elements surrounding the lowermost portion of the concentric tube and being housed by the heat chamber portion of the elongated tube, heat responsive means for successively controlling the electric heating elements, means for controlling the flow of fluid from the concentric tube and a cap threaded on the upper end of the elongated tube for partially closing the concentric tube.

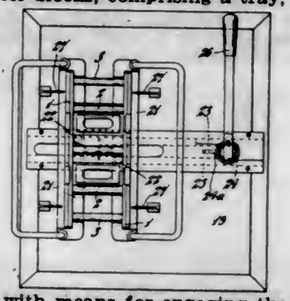
2,171,487
FIRE EXTINGUISHER
Dock R. Wheeler, Lake Charles, La.
Application October 11, 1937, Serial No. 168,469
2 Claims. (Cl. 169—19)



1. An apparatus of the kind described comprising a liquid sprinkling device, an elongated cylindrical body having separated chambers, a connection between the sprinkling device and the cylindrical body for establishing communication between one of the chambers and said device, a liquid delivery pipe carried into the chamber having the connection with the said device, a valve closing the liquid delivery pipe and seated thereon interiorly of the chamber communicating with said device and having a stem carried into the other chamber, a manually adjustable set screw fitting said cylindrical body for alignment with said stem and extended within said other chamber, a pair of jacks for abutting each other within said chamber and held in abutment by the stem and set screw, heating elements carried by and insulated from the jacks and fusibly joined in overlapped relation to each other, the faces of the jacks being rounded for lateral breaking in one direction sidewise on separation of the heating elements when the overlapped joint therebetween breaks, and means for heating the said elements and having spring contacts engaging said elements at one side of the abutting jacks and retaining the latter in normal abutting relation to each other.

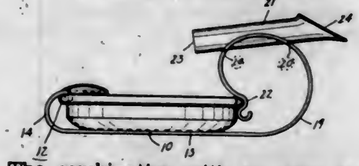
2,171,488
TRAY OR BASEBOARD FOR USE WITH LOOSE LEAF BOOKS
Henry Thomas Bigg and Samuel Henry Sunderland, Beckenham, England, assignors to Percy Jones (Twinlock) Limited, Beckenham, Kent, England, a corporation of England
Original application March 29, 1937, Serial No. 133,696. Divided and this application August 30, 1938, Serial No. 227,554. In Great Britain May 11, 1936
5 Claims. (Cl. 129—1)

3. A device for releasing the leaves of a loose leaf book held between clamping bars drawn together by springs and provided with leaf holding posts secured to movable carrier blocks so as to be movable substantially longitudinally in the said clamping bars, and latches engaging the said carrier blocks, comprising a tray, platforms



provided with means for engaging the clamping bars and movable on the tray to effect movement of the clamping bars and thrust exerting implements arranged to enter apertures in the clamping bars to move the said latches and carrier blocks in succession.

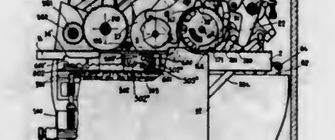
2,171,489
ASHTRAY AND CIGARETTE EXTINGUISHER
Norman M. Cameron, Bedford, Ind.
Application April 30, 1937, Serial No. 139,906
3 Claims. (Cl. 131—235)



1. The combination with an open faced ash tray and a tube support extending upwardly therefrom and in juxtaposition to a side edge of the tray, of a tubular receiver supported by the support at but a slight angle to the plane of the base of the tray, said receiver comprising a tube with a bore therethrough with an open receiving end and an open discharge end, the ends being aligned, the receiving end terminating beyond the tray and the discharge end terminating above the tray, said receiver permitting the reception, passage and discharge of cigarettes and the like, and smothering the same without the necessity of an end closure or closed chamber communication, the support having clamping engagement with the tray, the clamping contact being upon opposite sides of the tray, and a support of trough character for lighted cigarettes and the like, and supported by the end of the support opposite the receiver supporting end, the support comprising an elongated strip of metal upon which the tray is seated and means on the strip adjacent one tray clamping portion for tray interior engagement preventing accidental lateral separation of the tray from the support.

2,171,490
ELECTRIC DISCHARGE DEVICE
Henri F. Dalpayrat, New York, N. Y., assignor to Radio Corporation of America, a corporation of Delaware
Application December 2, 1936, Serial No. 113,927
10 Claims. (Cl. 250—27)

6. An electron discharge device having a straight thermionic cathode, a pair of collector electrodes positioned on opposite sides of said cathode and having the surfaces facing said cathode coated with emitting material for releasing secondary electrons when primary electrons from said cathode strike said coated surfaces, a pair of elongated compressor electrodes one positioned on each side of said cathode between said coated



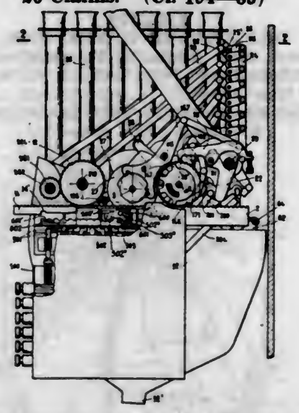
electrodes, and output electrodes positioned outside of said other electrodes and opposite the space between said coated electrodes for receiving electrons from said cathode and from said coated electrodes in accordance with the variable voltage applied to said compressor electrodes during operation of said electron discharge device.

2,171,491
BRAKE AND PRESSURE FLUID
Rudolf Endres, Dessau-Rosslau/Anhalt, Germany
No Drawing. Application July 9, 1937, Serial No. 152,778. In Germany July 30, 1936
6 Claims. (Cl. 252—5)

1. Brake and pressure fluids consisting of tetrahydrofurfuryl alcohol in mixture with material of the group consisting of primary aliphatic unsaturated alcohol having 18 carbon atoms in the molecule, and cyclohexanone-glycerin.

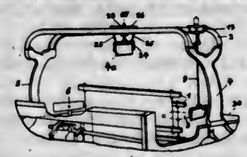
5. Brake and pressure fluids as defined in claim 1 containing in addition a small proportion of high molecular alkyl amine.

2,171,492
COIN COLLECTING AND OBJECT DISTRIBUTING MACHINE
Attilio Errera, Turin, Italy
Application February 4, 1936, Serial No. 62,369
In Italy July 26, 1935
26 Claims. (Cl. 194—85)



1. An automatic apparatus for vending articles such as tickets and other objects having different prices, comprising a movable receiver able to receive a number of coins of a given denomination of a tendered amount, a mover adapted to enter said receiver for engaging coins located therein and shifting said receiver through an extent dependent upon coins therein, means for operating said mover, movable means driven by said receiver through an extent proportional with the tendered amount provided by coins in said receiver, setting-in means for setting-in amounts of the prices of the articles to be vended, price amount movable means adapted to move through extents proportional with said price amounts, means under the control of said setting-in means to drive said price amount movable means through an extent proportional with the price amount set in at each operation, means for coupling said tendered amount receiver driven movable means and said price amount movable means, said coupling means being operative during the displacement of one of said movable means, means for delivering an article, control means for said article delivering means, means for selectively cashing-in and refunding coins located in said receiver, control means for said coin cashing-in and refunding means, and discriminating means operative on said article delivering means control means and coin cashing-in and refunding means control means to make either said article delivering means and said coin cashing-in means operative or said coin refunding means operative according to whether or not said tendered amount covers said set-in price amount, said discriminating means being actuated by said coupled movable means in the joint operation thereof.

2,171,493
MIRROR DEVICE FOR LOOMS FOR ASCERTAINING FROM THE POSITION OF THE WEAVER BREAKING OF WARP THREADS OR THE LIKE IN THE LOOM
Ernst Hochheimer, Aachen, Germany
Application September 1, 1937, Serial No. 162,024
In Germany September 2, 1936
2 Claims. (Cl. 88—92)



2. In a mirror arrangement for detecting from the operator's stand any breakage of warp threads on looms, a mirror, a pendulum rod carrying said mirror at its lower end, means for oscillatably and rotatably suspending said pendulum rod on the loom frame said means comprising a clamp adapted to be fixed on the loom frame, a horizontal rod adapted to be turned about its axis in said clamp and fixed in its adjusted position, a hub on said horizontal rod slidably guiding the upper end of said pendulum rod, an extension from said hub diametrically opposite said horizontal rod, a vertical rod fixed at its upper end in said extension and extending in downward direction parallel to said pendulum rod, an angle piece fixed on the lower end of said vertical rod, a sleeve slidably guiding said pendulum rod intermediate its length, means for adjusting the position of said sleeve relatively to said bracket, a ring slidable on said pendulum rod intermediate said hub and said sleeve, means for fixing said ring in any adjusted position on said pendulum rod, two diametrically opposite arms projecting horizontally from said hub at right angles to said horizontal bar, two diametrically opposite arms projecting horizontally from said ring and extending parallel to said first mentioned arms, and springs one connecting the outer end of each of the hub arms with the outer end of the corre-

sponding ring arm and establishing resilient connection between said pendulum rod and the loom frame through the intermediary of said horizontal rod and said clamp.

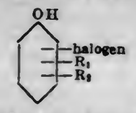
2,171,494

HYDROXY HALOGENATED BENZENE DERIVATIVES AND USES THEREFOR

Lucas P. Kyrides, Webster Groves, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Application March 21, 1932, Serial No. 600,380
22 Claims. (Cl. 260—625)

1. A halogenated hydroxy benzene composition having inordinately high germicidal properties which may be represented by the formula



where R_1 is a hydroxy group and R_2 is a member of the group consisting of the alkyl and acyl groups, which groups have more than four and not more than twelve carbon atoms.

2. A halogenated dihydroxy benzene embodying an alkyl group having more than four carbon atoms.

2,171,495

ETHERS OF POLYHYDROXY HALOGENATED PHENOLS

Lucas P. Kyrides, Webster Groves, Mo., assignor, by mesne assignments, to Monsanto Chemical Company, a corporation of Delaware

No Drawing. Original application March 21, 1932, Serial No. 600,380. Divided and this application November 30, 1938, Serial No. 243,163
8 Claims. (Cl. 260—613)

7. Mono alkyl ethers of halogenated resorcinols in which the alkyl group contains more than 3 carbon atoms.

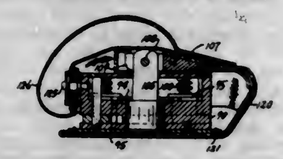
8. Mono alkyl ethers of a halogenated dihydroxy benzene in which the alkyl group contains more than 3 carbon atoms.

2,171,496

PARACHUTE HARNESS RELEASE COUPLING

George Waite and Harold G. Rogers, Buffalo, N. Y., assignors to Irving Air Chute Co. Inc., Buffalo, N. Y., a corporation of New York

Original application August 5, 1936, Serial No. 94,470, now Patent No. 2,164,130, dated June 27, 1939. Divided and this application February 26, 1938, Serial No. 192,872
7 Claims. (Cl. 24—205)



1. In a single point release connector for parachute harnesses the combination of a frame, strap connector detents on the frame normally spring urged to releasably snap into strap retaining position, means to releasably hold said detents inoperative including a pivoted lever, a housing adapted to cover the frame for guarding and preventing premature release operation of sail lever, and means for releasable movement of the housing from its guarding relation with respect to said lever.

2,171,497

MAP AND LIKE ARTICLE SUPPORT

Johnse H. Beck, Indianapolis, Ind., assignor to The Geo. F. Cram Company, Indianapolis, Ind., a corporation of Illinois

Application December 17, 1938, Serial No. 246,342
8 Claims. (Cl. 248—224)



1. In a support for maps or the like, the combination with a roller supporting bar having a channelled recess on its rear face and an opening in the top wall of said recess intermediate of its ends, of a supporting block, and a pin projecting from the top edge of said block adapted to enter the opening in the top wall of the supporting bar, said recess being of sufficient size to receive said block.

2,171,498

SULPHONATES OF POLYARYL POLYETHERS

Herman A. Bruson, Philadelphia, Pa., assignor to Röhm & Haas Company, Philadelphia, Pa.

No Drawing. Application April 8, 1937, Serial No. 135,671
14 Claims. (Cl. 260—511)

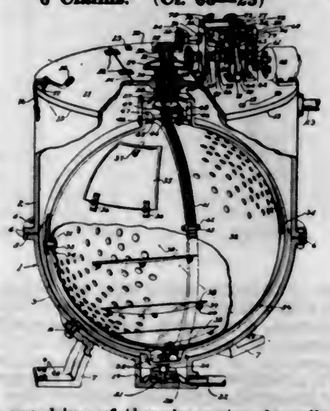
1. A sulphonate of an aromatic polyether having the general formula R—O—A—O—R' in which R and R' are each aromatic groups at least one of which contains a nuclear substituent of the group consisting of hydrocarbon and acyl groups of more than three carbon atoms and A is a member of the group consisting of alkylene groups and polyalkylene ether groups in which at least two carbon atoms separate successive ether atoms.

2,171,499

DRY-CLEANING MACHINE

Mario Busi, New York, N. Y., assignor to The Silver Globe Corp., New York, N. Y., a corporation of New York

Application September 21, 1931, Serial No. 564,005
6 Claims. (Cl. 68—25)



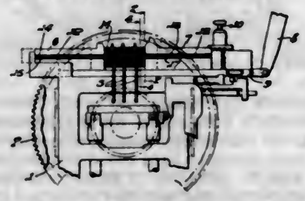
1. In a machine of the character described, an outer container, a ring in said outer container, means supporting said ring for continuous rotation through 360° about an axis in said outer container, said supporting means including a pair of aligned shafts fastened to said ring and bearings for said shafts fastened to said outer container, an inner container in said ring, means supporting said inner container for continuous rotation through 360° in said ring about another axis, means for rotating said ring and said inner container about the axis of rotation of said ring, and means independent of said means for rotating said ring for rotating said inner container about said another axis whereby said inner container may be independently rotated about either of said axes.

2,171,500

CASTING MEANS FOR LINE-CASTING MACHINES

Herman R. Freund, Brooklyn, N. Y., assignor to Intertype Corporation, Brooklyn, N. Y., a corporation of New York

Application December 24, 1935, Serial No. 56,115
20 Claims. (Cl. 199—50)



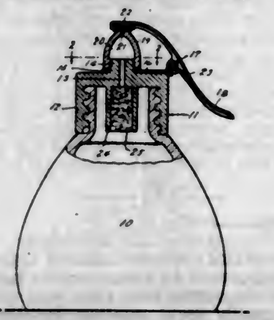
1. In or for a slug casting machine, a mold comprising mold sections having opposed surfaces forming the walls of a longitudinal casting cavity of less length than the mold, said opposed surfaces, for a portion of their depth from the front face of the mold, having flat oppositely bevelled surfaces which intersect the longitudinal walls of the mold and presenting a widened opening across the front of the mold over the length of the casting cavity and to the opposite ends of the mold.

2,171,501

DISPENSING RECEPTACLE

Charles L. Gebauer, Cleveland, Ohio, assignor to The Gebauer Chemical Company, Cleveland, Ohio, a corporation of Ohio

Application August 20, 1936, Serial No. 97,039
2 Claims. (Cl. 299—95)



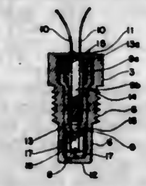
1. A dispensing device comprising, in combination, a receptacle and a closure therefor, said closure including: a cap element having a boss projecting from the outside thereof, a bore formed in and extending through said cap element and through the boss thereof, a nozzle element sealed over the outside of said boss and having a short capillary passage extending to the outside thereof, and movable means normally closing said capillary passage and adapted to be operated manually for movement to uncover said capillary passage, said nozzle element and said boss defining an expansion chamber between said bore and said capillary passage.

2,171,502

GAS CELL

William George Gow, Belleville, N. J., assignor to Gow-Mac Instrument Company, Newark, N. J., a partnership consisting of William George Gow, Belleville, N. J., and James L. MacFadden, Maplewood, N. J.

Application June 17, 1937, Serial No. 148,657
3 Claims. (Cl. 73—51)



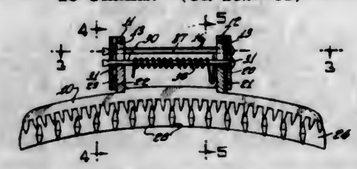
1. A cell for analyzing gases by the heat conductivity method comprising a shell having an internal opening for substantially its entire length, said internal opening having an enlarged portion and a narrow portion forming a substantially square shoulder therebetween, an insulating spacing member disposed therein having an enlarged portion, a narrow portion and a butt portion, said enlarged portion being of too great diameter to fit within the narrow portion of the opening in the cell, a spiral filament connected to lead-in wires passing through said insulating spacing member and firmly attached to the butt portion thereof by reason of which the position of the filament relative to the walls of the cell is determined and said filament is held away from and below said butt portion and means for sealing said insulating spacing member and lead-in wires in said shell all forming a unitary sealed structure.

2,171,503

WAVE FORMING AND SETTING DEVICE

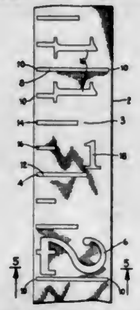
William Huppert, New York, N. Y., assignor to Delamere Company, Inc., a corporation of Delaware

Application January 26, 1939, Serial No. 252,860
15 Claims. (Cl. 132—31)



1. In a hair wave forming and setting device, a pair of pivotally connected clamp jaws, a toothed member disposed between said jaws, means connecting the toothed member to the clamp operative to move said member automatically downward relatively to the pivotal point of the jaws to a position below the lower ends of said jaws upon opening the clamp and to retract said member upon closing the clamp.

2,171,504
MEASURING TAPE
Adolf W. Keuffel and Howard F. Schermerhorn, Montclair, N. J., assignors to Keuffel & Esser Company, Hoboken, N. J., a corporation of New Jersey
Application May 12, 1936, Serial No. 79,372
8 Claims. (Cl. 33—137)



1. A highly legible graduated metal tape with permanent graduations comprising a metal strip with portions thereof etched according to a pattern of the graduations forming depressions from the normal surface of the strip and a pigmented coating material filling said depressions to contrast with the normal surface and make the graduations very legible.

2,171,505
LAMINATED FABRIC
Gustave Klinkenstein, Maplewood, N. J., assignor to Maas & Waldstein Company, Newark, N. J., a corporation of New Jersey
No Drawing. Application August 10, 1935, Serial No. 35,679
7 Claims. (Cl. 154—46)

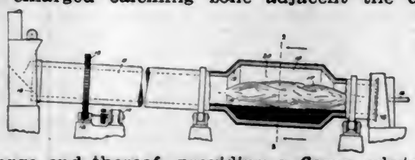
7. A multiply fabric for use in articles subjected to repeated laundering comprising a plurality of layers joined together by a thermoplastic adhesive which will soften at a temperature of about 275° F., comprising essentially a cellulose ester selected from the group consisting of cellulose acetate and cellulose nitrate plasticized with a substantially equal amount of methyl phthalyl ethyl glycolate.

2,171,506
LAMINATED FABRIC
Gustave Klinkenstein, Maplewood, N. J., assignor to Maas & Waldstein Company, Newark, N. J., a corporation of New Jersey
No Drawing. Application November 16, 1937, Serial No. 174,803
6 Claims. (Cl. 154—46)

6. A laminated fabric for use in articles subjected to laundering comprising a plurality of layers of textile material joined with a thermoplastic adhesive stiffening composition comprising essentially cellulose acetate and a substantially equal amount of ethyl phthalyl ethyl glycolate.

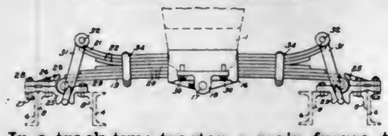
2,171,507
METHOD OF CALCINING LIME
Ray C. Newhouse, Wauwatosa, Wis., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application March 9, 1936, Serial No. 67,827
3 Claims. (Cl. 263—53)

1. The method of calcining calcium carbonate which comprises introducing the raw material into the feed end of a rotating kiln provided with an enlarged calcining zone adjacent the dis-



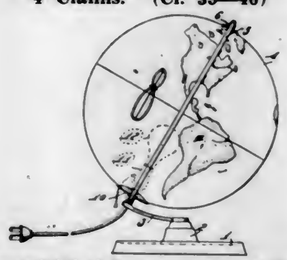
charge end thereof, providing a flame substantially entirely within said calcining zone, and transferring said material from said calcining zone to a zone of lower temperature.

2,171,508
TRACTOR
Emil F. Norelius, Springfield, Ill., assignor to Allis-Chalmers Manufacturing Company, Milwaukee, Wis., a corporation of Delaware
Application September 30, 1936, Serial No. 103,234
3 Claims. (Cl. 305—8)



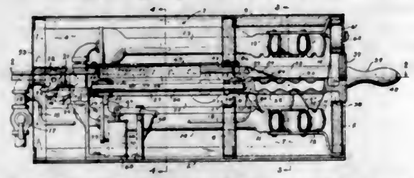
1. In a track type tractor, a main frame, track frames pivotally connected on a transverse axis to the rear of said main frame, a spring bracket pivotally connected to said main frame on a longitudinal axis in advance of said transverse axis, a lower transverse leaf spring connected intermediate its ends to said bracket, socket members secured to said track frames, the ends of said lower leaf spring being received by said socket members and bearing thereupon, an upper transverse leaf spring connected intermediate its ends to said bracket, U-shaped shackle members engaging said socket members and extending upwardly therefrom, and pivot pins extending through the upper ends of said shackle members and connecting the ends of said upper leaf spring with said shackle members.

2,171,509
TERRESTRIAL GLOBE MOUNTING
Arthur L. Peterson, Indianapolis, Ind., assignor to The Geo. F. Cram Company, a corporation of Illinois
Application March 26, 1938, Serial No. 198,191
4 Claims. (Cl. 35—46)



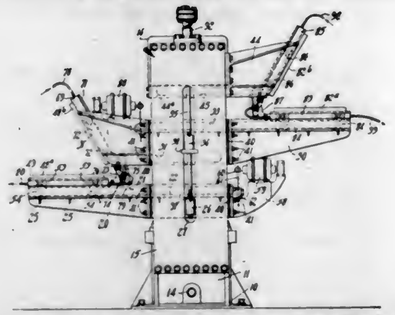
1. A terrestrial globe comprising a globe adapted to be supported to rotate on its polar axis, a stand, a globe supporting ring mounted on said stand, normally held against rotation on the polar axis of the globe and arranged in a plane inclined at an angle coincident with the polar axis of the globe and a terrestrial globe, mounted within said meridian ring and supported to rotate on its polar axis.

2,171,510
COOKING MACHINE
Robert W. Stirgwolt, Bay Village, Ohio, assignor to Jak-Kraw, Inc., Rocky River, Ohio, a corporation of Ohio
Application February 1, 1938, Serial No. 188,132
20 Claims. (Cl. 53—5)



1. In a cooking machine, opposed burners spaced one above the other, a grill cup, a cover therefor, means supporting the grill cup for movement in a substantially horizontal plane to and from a cooking position between said burners, and further means acting automatically to lift the cover when the grill cup is moved from cooking position to a filling and discharging position.

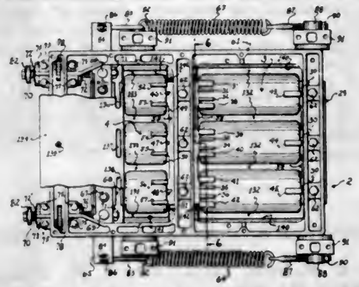
2,171,511
PRESS
Edmund M. Winegar, Willoughby, and Forrest L. Dawes, Kent, Ohio, assignors of one-half to The Ohio Rubber Company, Willoughby, Ohio, a corporation of Ohio, and one-half to The Adamson Machine Company, Akron, Ohio, a corporation of Ohio
Application January 14, 1936, Serial No. 59,048
9 Claims. (Cl. 18—17)



1. In a press of the character described, the combination of a pair of opposed press heads relatively movable from and toward each other, a pair of parallel runways carried by each of said heads and extending to regions exteriorly of the press, said pairs of runways being in parallelism interiorly of the press and at least one pair thereof diverging angularly out of parallelism exteriorly of the press, mating mold members carried by the respective pairs of runways, and means for impelling the mold members edgewise along said runways in the open condition of the press.

2,171,512
ELECTRICAL APPARATUS
Prescott D. Crout, Boston, Mass., assignor to Raytheon Manufacturing Company, Newton, Mass., a corporation of Delaware
Application September 6, 1934, Serial No. 742,913
8 Claims. (Cl. 171—242)

1. In a magnetic apparatus, a magnetic core, means for setting up a magnetic flux in said core, said magnetic core having a variable air gap between a pole face and a movable magnetic bar, supporting means for supporting said magnetic bar spaced from said pole face, and additional means for exerting on said magnetic bar a uni-

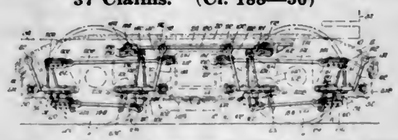


directional force tending to move said bar toward said pole face, the magnitude of said unidirectional force being great enough to prevent chattering.

2,171,513
PROCESS FOR TREATING FABRICS AND LIKE MATERIALS TO PRODUCE EFFECTS THEREIN AND PRODUCTS THEREFROM
Georges Heberlein, Wattwil, and Ernst Weiss, Wattwil, Bunt, Switzerland, assignors to Heberlein Patent Corporation, New York, N. Y., a corporation of New York
No Drawing. Application February 13, 1936, Serial No. 63,808. In Germany February 15, 1935
6 Claims. (Cl. 8—114)

1. A process for producing pattern fabrics which comprises treating with a swelling agent a fabric containing inactive formaldehyde cellulose fibres and active fibres woven in a pattern, the active fibres being natural vegetable fibres which are active to swelling agents, and altering the active fibres under the swelling action to form a visible pattern while the inactive fibres are substantially unaltered by said swelling action.

2,171,514
BRAKE ARRANGEMENT
William C. Hedgcock, Wilmette, Ill., assignor to American Steel Foundries, Chicago, Ill., a corporation of New Jersey
Application April 6, 1936, Serial No. 72,894
37 Claims. (Cl. 188—56)

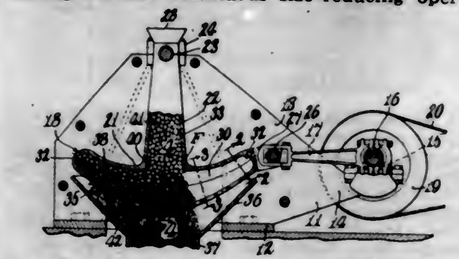


1. In a brake arrangement, the combination of a truck, a car body supported thereon, said truck including spaced wheel and axle assemblies, spaced truck frames supported thereon, a transversely extending load carrying member supported on said truck frames between said wheel and axle assemblies, brake heads for each side of each wheel, transversely extending brake beams disposed on opposite sides of each wheel and axle assembly and connecting opposite brake heads, brake hangers supported on said side frames and connected to said beams adjacent the ends thereof, inner and outer truck levers disposed substantially on the longitudinal center line of said truck and respectively connected to the inner and outer of said brake beams intermediate

the ends of said levers, the upper end of each of the outer of said levers being connected to said load carrying member, a connection between the lower ends of pairs of said truck levers, body levers disposed on opposite sides of said load carrying member and having one end thereof connected to the opposite end of the adjacent truck lever, and a connection between the other ends of said body levers, one of said body levers being pivoted intermediate its ends to said car body, the other of said body levers being adapted to be connected intermediate the ends thereof to brake operating means.

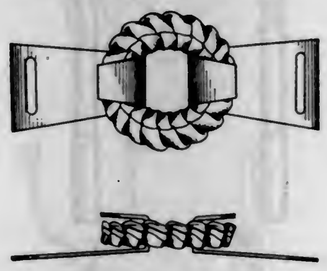
2,171,515
METHOD AND APPARATUS FOR SIZE REDUCTION
Louis A. Maxson, Claremont, N. H., assignor to Sullivan Machinery Company, a corporation of Massachusetts
Application August 29, 1936, Serial No. 98,548
14 Claims. (Cl. 83—9)

1. In a mill, means providing a size-reducing chamber supported for movement back and forth, said size-reducing chamber elongated in its direction of back-and-forth movement, of substantially uniform cross-sectional area throughout the major portion of its length but of varied cross-sectional shape at different points along its length, provided with discharge means through which material of small enough size may pass while the chamber is in motion, and having means for the introduction into said chamber during the operation of the mill of material to be processed, including a feed passage communicating with said chamber through an aperture intermediate the ends of the chamber in a wall which extends longitudinally of the latter, and means for moving said chamber back and forth, said chamber of such dimension between said aperture and the opposite surface of said chamber, said chamber and said aperture of such relative lengths and disposition, said chamber having its bounding walls so formed, and said chamber-moving means imparting to said chamber movement at such rate and of such amplitude, that during normal continuous size-reducing operation the chamber load will be reciprocated between the ends of the chamber as a substantially compact mass substantially filling the entire cross-section of the chamber throughout the major portion of its own length but altering its cross-sectional shape in its transit through said chamber, and sweeping across the feed aperture and controlling the ingress of material awaiting entrance to the chamber at said feed aperture, and coacting with said feed aperture to preclude the building up of the volume of the mass sufficiently to fill the chamber.



DESIGNS
AUGUST 29, 1939

116,333
DESIGN FOR A BELT BUCKLE
Jacob Lewis Bibula, New York, N. Y.
Application July 15, 1939, Serial No. 86,035
Term of patent 3½ years



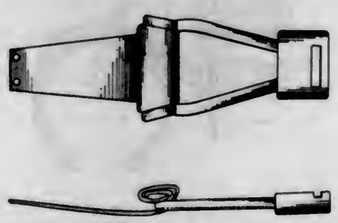
The ornamental design for a belt buckle, substantially as shown.

116,334
DESIGN FOR A BELT BUCKLE
Jacob Lewis Bibula, New York, N. Y.
Application July 15, 1939, Serial No. 86,036
Term of patent 3½ years



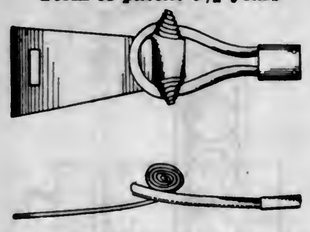
The ornamental design for a belt buckle, substantially as shown.

116,335
DESIGN FOR A BELT BUCKLE
Jacob Lewis Bibula, New York, N. Y.
Application July 22, 1939, Serial No. 86,175
Term of patent 3½ years



The ornamental design for a belt buckle, substantially as shown.

116,336
DESIGN FOR A BELT BUCKLE
Jacob Lewis Bibula, New York, N. Y.
Application July 22, 1939, Serial No. 86,176
Term of patent 3½ years



The ornamental design for a belt buckle, substantially as shown.

116,337
DESIGN FOR A JEWELRY SETTING OR SIMILAR ARTICLE
Frederick J. Gaertner, Maplewood, N. J.
Application May 26, 1939, Serial No. 85,216
Term of patent 14 years



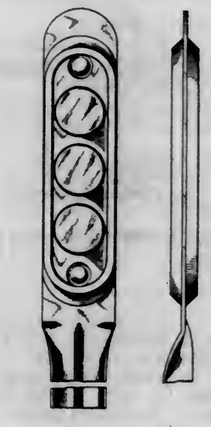
The ornamental design for a jewelry setting or similar article, as shown.

116,338
DESIGN FOR AN ANNOUNCEMENT STAND
Thomas H. Gist, Bloomington, Ill.
Application May 25, 1939, Serial No. 85,201
Term of patent 7 years



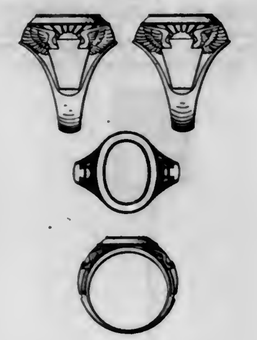
The ornamental design for an announcement stand, as shown and described.

116,339
DESIGN FOR A REFLECTOR SIGNAL DEVICE OR THE LIKE
John C. Haggart, Jr., Westfield, N. J., assignor to Signal Service Corporation, a corporation of Delaware
Application January 5, 1939, Serial No. 82,168
Term of patent 14 years



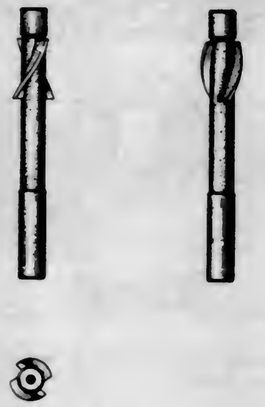
The ornamental design for a reflector signal device or the like, as shown and described.

116,340
DESIGN FOR A FINGER RING
Linus F. Heberger, Rochester, N. Y., assignor to Metal Arts Company, Rochester, N. Y.
Application March 6, 1939, Serial No. 83,368
Term of patent 3½ years



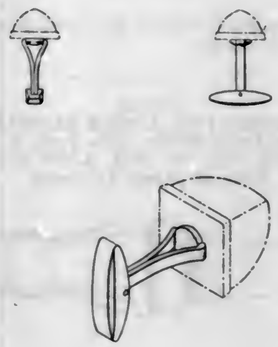
The ornamental design for a finger ring, as shown.

116,341
DESIGN FOR A COUNTERBORE
Oscar C. Hedin, Minneapolis, Minn.
Application June 28, 1939, Serial No. 85,730
Term of patent 14 years



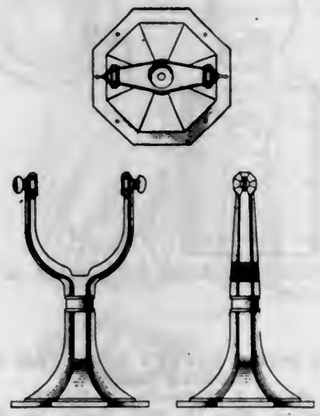
The ornamental design for a counterbore, as shown.

116,342
DESIGN FOR A CUFF LINK
George A. Ingleby, Cranston, R. I., assignor to The Hadley Company, Inc., Providence, R. I., a corporation of Rhode Island
Application June 23, 1939, Serial No. 85,643
Term of patent 7 years



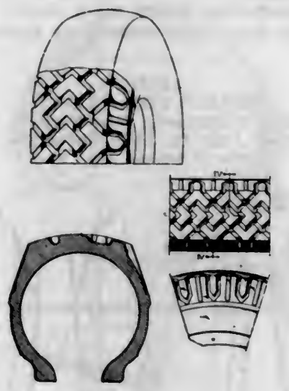
The ornamental design for a cuff link, substantially as shown.

116,343
DESIGN FOR A MOTOR SUPPORT
William L. Laib, Oak Park, Ill., assignor to Reynolds Electric Company, Chicago, Ill., a corporation of Illinois
Application April 10, 1939, Serial No. 84,181
Term of patent 14 years



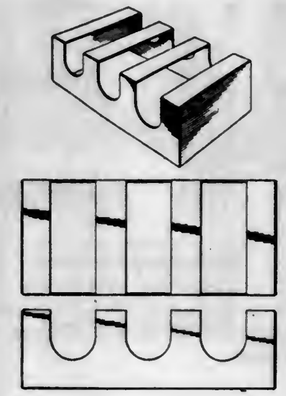
The ornamental design for a motor support, as shown.

116,344
DESIGN FOR A PNEUMATIC TIRE
Ralph S. Lombard, Detroit, Mich., assignor to United States Rubber Company, New York, N. Y., a corporation of New Jersey
Application February 14, 1939, Serial No. 82,980
Term of patent 14 years



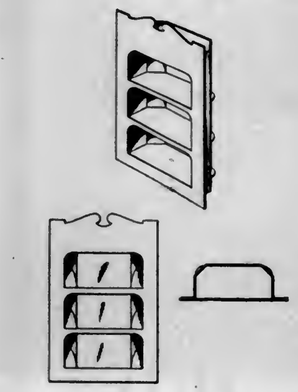
The ornamental design for a pneumatic tire, as shown.

116,345
DESIGN FOR A CAKE BOX
Arthur W. Lovejoy, Lowell, Mass., assignor to Philip I. Morehouse, Lawrence, Mass.
Application November 15, 1938, Serial No. 81,093
Term of patent 7 years



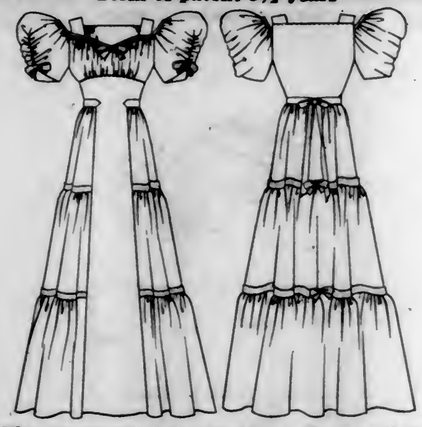
The ornamental design for a cake box, as shown.

116,346
DESIGN FOR A CUPBOARD
Arthur W. Lovejoy, Lowell, Mass., assignor to Philip I. Morehouse, Methuen, Mass.
Application November 15, 1938, Serial No. 81,094
Term of patent 7 years



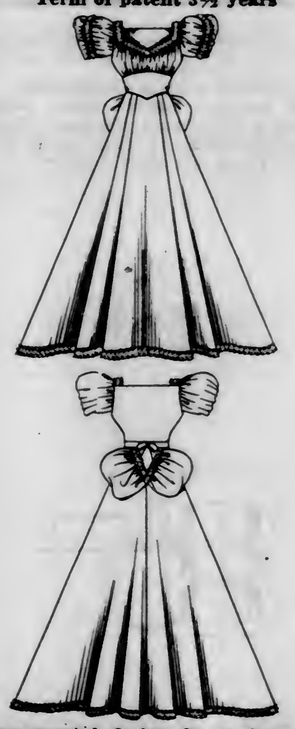
The ornamental design for a cupboard, as shown.

116,347
DESIGN FOR A DRESS
Vera S. Mandler, New York, N. Y.
Application July 31, 1939, Serial No. 86,367
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,348
DESIGN FOR A DRESS
Vera S. Mandler, New York, N. Y.
Application July 31, 1939, Serial No. 86,368
Term of patent 3½ years



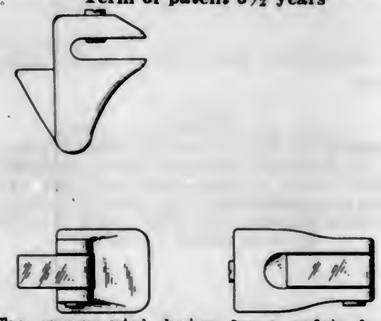
The ornamental design for a dress, substantially as shown.

116,349
DESIGN FOR A BOTTLE
George N. Mas, Lynchburg, Va.
Application January 25, 1939, Serial No. 82,604
Term of patent 14 years



The ornamental design for a bottle, as shown and described.

116,350
DESIGN FOR A SAFETY LOCK FOR AUTOMOBILE DOORS
Harry J. McDevitt, Media, Pa.
Application May 10, 1939, Serial No. 84,908
Term of patent 3½ years



The ornamental design for a safety lock for automobile doors, substantially as shown.

116,351
DESIGN FOR A COAT
Arthur Rosenzweig, New York, N. Y.
Application July 29, 1939, Serial No. 86,327
Term of patent 3½ years



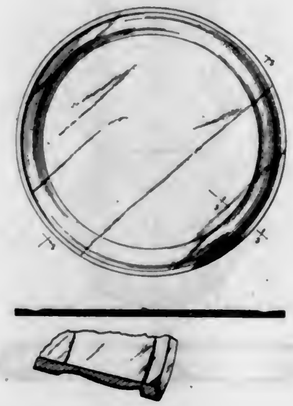
The ornamental design for a coat, substantially as shown, and described.

116,352
DESIGN FOR A BOTTLE
Edward J. Schuellein, New York, N. Y., assignor to Schenley Distillers Corporation, New York, N. Y., a corporation of Delaware
Application June 22, 1939, Serial No. 85,635
Term of patent 14 years



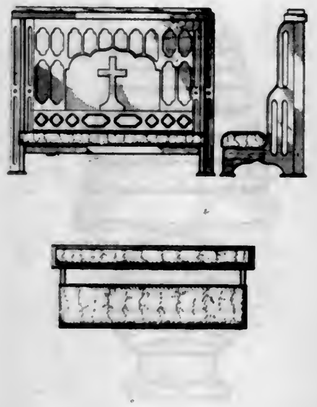
The ornamental design for a bottle, as shown.

116,353
DESIGN FOR A MIRROR
Sebet Silverman, Atlantic City, N. J., assignor to The Nurre Companies, Inc., Egg Harbor City, N. J., a corporation of Indiana
Application November 29, 1938, Serial No. 81,458
Term of patent 7 years



The ornamental design for a mirror, as shown.

116,354
DESIGN FOR A PRAYER RAIL
Frank M. Wojtalewicz, Chicago, Ill.
Application June 5, 1939, Serial No. 85,349
Term of patent 3½ years



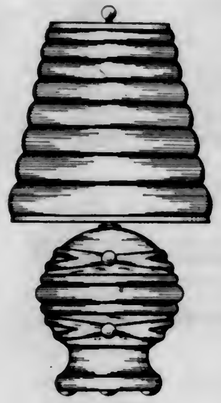
The ornamental design for a prayer rail, substantially as shown.

116,355
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application July 1, 1939, Serial No. 85,801
Term of patent 3½ years



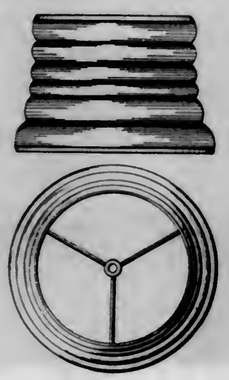
The ornamental design for a textile fabric or similar article, as shown and described.

116,356
DESIGN FOR A LAMP
Joseph M. Angeletti, New York, N. Y.
Application April 20, 1939, Serial No. 84,408
Term of patent 3½ years



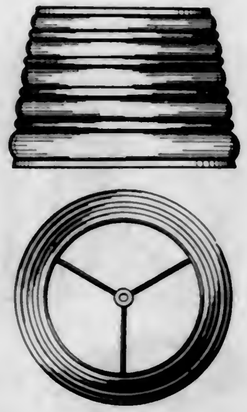
The ornamental design for a lamp, as shown and described.

116,357
DESIGN FOR A LAMP SHADE
Joseph M. Angeletti, New York, N. Y.
Application April 20, 1939, Serial No. 84,409
Term of patent 3½ years



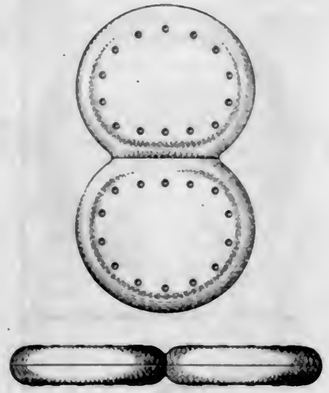
The ornamental design for a lamp shade, as shown and described.

116,358
DESIGN FOR A LAMP SHADE
Joseph M. Angeletti, New York, N. Y.
Application April 20, 1939, Serial No. 84,410
Term of patent 3½ years



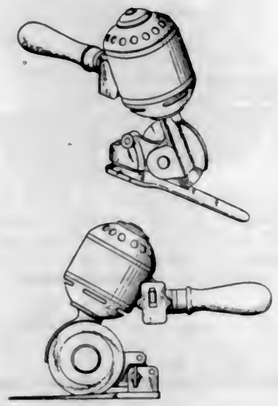
The ornamental design for a lamp shade, as shown.

116,359
DESIGN FOR A SURF MATTRESS
Reginald M. Banks and Dorothy A. Banks, Woodmere, N. Y.
Application August 5, 1938, Serial No. 79,123
Term of patent 7 years



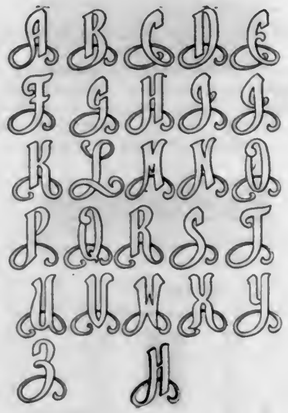
The ornamental design for a surf mattress, substantially as shown and described.

116,360
DESIGN FOR A PORTABLE ELECTRIC CUTTING MACHINE OR SIMILAR ARTICLE
Frederick J. Clark, Buffalo, N. Y., assignor to Eastman Machine Company, Buffalo, N. Y.
Application April 22, 1939, Serial No. 84,492
Term of patent 14 years



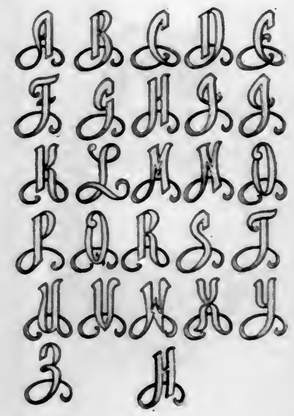
The ornamental design for a portable electric cutting machine or similar article, substantially as shown.

116,361
DESIGN FOR AN ALPHABET FOR FORMING MONOGRAMS OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application May 4, 1939, Serial No. 84,791
Term of patent 14 years



The ornamental design for an alphabet for forming monograms or similar article, substantially as shown.

116,362
DESIGN FOR AN ALPHABET FOR FORMING MONOGRAMS OR SIMILAR ARTICLE
Michael Chernow, New York, N. Y.
Application May 4, 1939, Serial No. 84,792
Term of patent 14 years



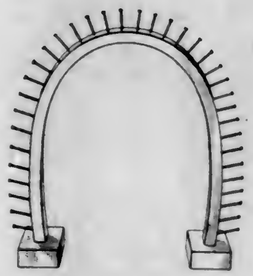
The ornamental design for an alphabet for forming monograms or similar article, substantially as shown.

116,363
DESIGN FOR A FLOOR MAT
Don R. Cotterman, Pontiac, Mich., assignor to Baldwin Rubber Company, Pontiac, Mich., a corporation of Michigan
Application May 2, 1938, Serial No. 76,936
Term of patent 7 years



The ornamental design for a floor mat, substantially as shown and described.

116,364
DESIGN FOR A HOLDER FOR THREAD SPOOLS OR SIMILAR ARTICLES
Jennie Edelstein, Miami Beach, Fla.
Application April 17, 1939, Serial No. 84,354
Term of patent 7 years



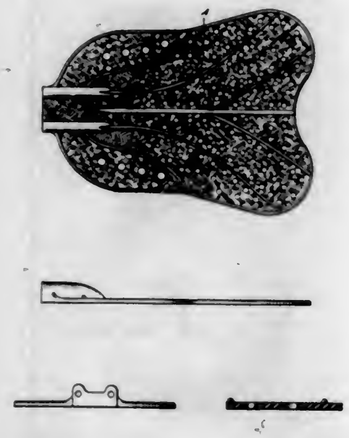
The ornamental design for a holder for thread spools or similar articles, as shown and described.

116,365
DESIGN FOR A LACE
Bert Edson, Pawtucket, R. I.
Application July 19, 1939, Serial No. 86,081
Term of patent 3½ years



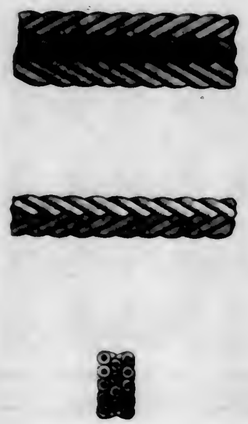
The ornamental design for a lace, substantially as shown and described.

116,366
DESIGN FOR A FLY SWATTER BLADE
Milton W. Gatch, Baltimore, Md., assignor to The Gatch Wire Goods Company, Baltimore, Md., a corporation of Maryland
Application November 7, 1938, Serial No. 80,927
Term of patent 14 years



The ornamental design for a fly swatter blade, substantially as shown.

116,367
DESIGN FOR A BRAIDED FABRIC OR ARTICLE OF SIMILAR NATURE
Ernest Hansmann, New Bedford, Mass., assignor to The Continental Elastic Corporation, New Bedford, Mass.
Application October 25, 1938, Serial No. 80,669
Term of patent 3½ years



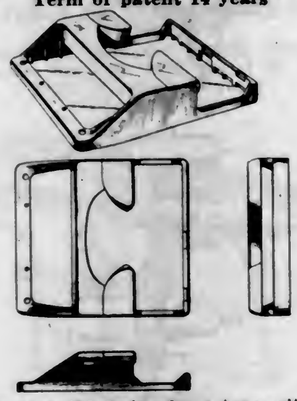
The ornamental design for a braided fabric or article of similar nature, as shown and described.

116,368
DESIGN FOR A COMBINATION ASHTRAY AND CIGARETTE RECEPTACLES
Richard F. Hudachek, Los Angeles, Calif.
Application June 20, 1938, Serial No. 77,956
Term of patent 14 years



The ornamental design for a combination ashtray and cigarette receptacles, as shown.

116,369
DESIGN FOR A TYPEWRITER FRAME
Johannes Krüger, Erfurt, Germany
Application March 13, 1939, Serial No. 83,539
In Germany September 15, 1938
Term of patent 14 years



The ornamental design for a typewriter frame, as shown.

116,370
DESIGN FOR A RANGE OR ANALOGOUS ARTICLE
Walter C. Lindemann, Milwaukee, Wis., assignor to A. J. Lindemann & Hoverson Company, Milwaukee, Wis., a corporation of Wisconsin
Application September 13, 1938, Serial No. 79,865
Term of patent 7 years



The ornamental design for a range or analogous article, as shown and described.

116,371
DESIGN FOR A COMBINATION PERFUME CONTAINER
Florence N. Lewis, New York, N. Y.
Application November 4, 1938, Serial No. 80,873
Term of patent 7 years



The ornamental design for a combination perfume container, as shown.

116,372
DESIGN FOR A CULINARY CABINET
Thomas B. Lynch and Clarence W. Kenzie, Irons, Mich.
Application November 9, 1938, Serial No. 80,974
Term of patent 7 years



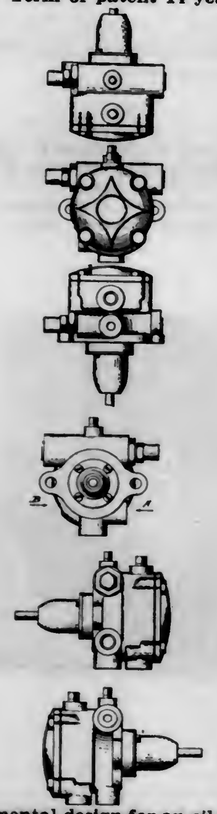
The ornamental design for a culinary cabinet, substantially as shown and described.

116,373
DESIGN FOR A CREAM PITCHER
Lewis J. Mitchell, Warren, Ohio
Application June 24, 1939, Serial No. 85,681
Term of patent 14 years



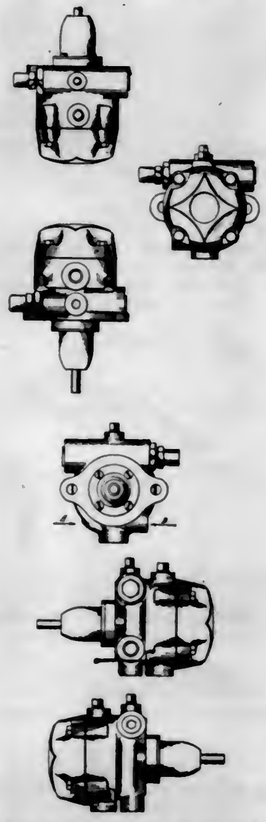
The ornamental design for a cream pitcher, as shown.

116,374
DESIGN FOR AN OIL BURNER PUMPING AND CONTROL UNIT
Thomas W. Murphy, Penn Valley, Pa., assignor to Monarch Manufacturing Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application November 29, 1938, Serial No. 81,451
Term of patent 14 years



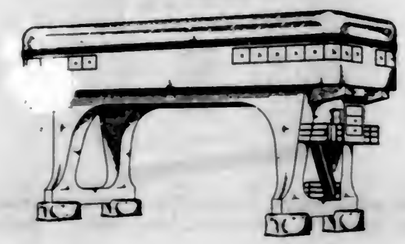
The ornamental design for an oil burner pumping and control unit, as shown.

116,375
DESIGN FOR AN OIL BURNER PUMPING AND CONTROL UNIT
Thomas W. Murphy, Penn Valley, Pa., assignor to Monarch Manufacturing Works, Inc., Philadelphia, Pa., a corporation of Delaware
Application November 29, 1938, Serial No. 81,452
Term of patent 14 years

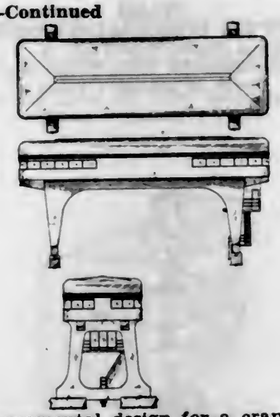


The ornamental design for an oil burner pumping and control unit, as shown.

116,376
DESIGN FOR A CRANE BRIDGE OR SIMILAR ARTICLE
Hiram H. Ostrander, Norris, Tenn.
Application May 3, 1939, Serial No. 84,779
Term of patent 14 years

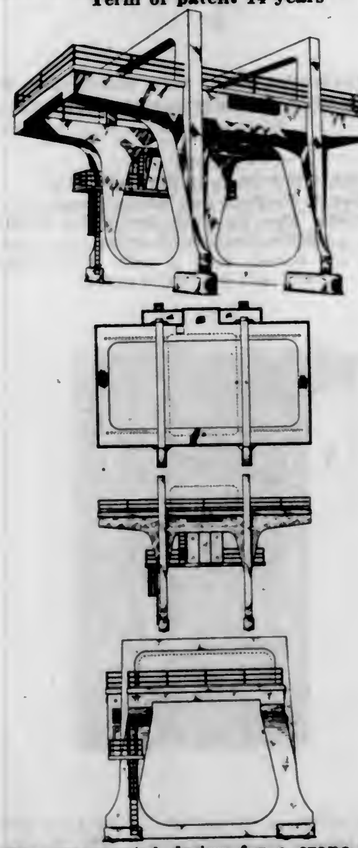


116,376—Continued



The ornamental design for a crane bridge or similar article, substantially as shown.

116,377
DESIGN FOR A CRANE BRIDGE OR SIMILAR ARTICLE
Hiram H. Ostrander, Norris, Tenn.
Application April 26, 1939, Serial No. 84,581
Term of patent 14 years



The ornamental design for a crane bridge or similar article, substantially as shown and described.

116,378
DESIGN FOR A NECKLACE
Alfred Philippe, New York, N. Y.
Application July 7, 1939, Serial No. 85,902
Term of patent 3½ years



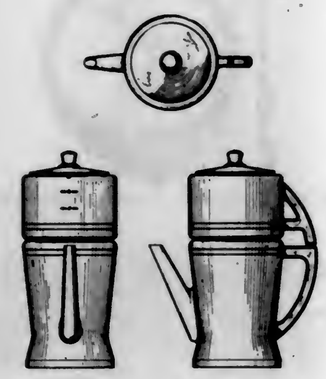
The ornamental design for a necklace, substantially as shown.

116,379
DESIGN FOR A COFFEE SERVER
Alfred F. Ramsthal, West Bend, Wis., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application June 23, 1939, Serial No. 85,648
Term of patent 14 years



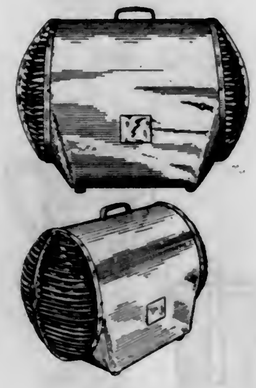
The ornamental design for a coffee server, as shown.

116,380
DESIGN FOR A COFFEE MAKER
Alfred F. Ramsthal, West Bend, Wis., assignor to West Bend Aluminum Co., West Bend, Wis., a corporation of Wisconsin
Application June 23, 1939, Serial No. 85,649
Term of patent 14 years



The ornamental design for a coffee maker, as shown.

116,381
DESIGN FOR AN AIR CONDITIONER
Harry Schechtel, Denver, Colo.
Application July 6, 1939, Serial No. 85,863
Term of patent 14 years



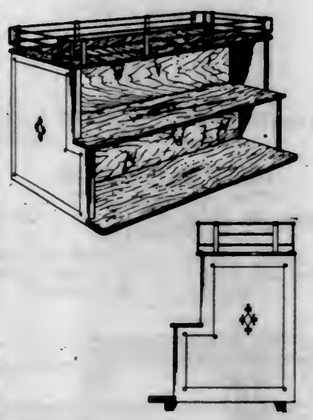
The ornamental design for an air conditioner, as shown and described.

116,382
DESIGN FOR A COMBINATION DESK UNIT
Daniel Shatt, New York, N. Y.
Application June 29, 1939, Serial No. 85,755
Term of patent 7 years



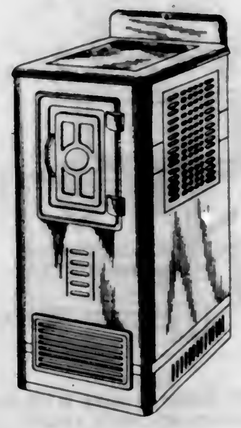
The ornamental design for a combination desk unit, substantially as shown and described.

116,383
DESIGN FOR A DISPLAY RACK
Lee A. Shelton, Des Moines, Iowa
Application May 15, 1939, Serial No. 85,004
Term of patent 7 years



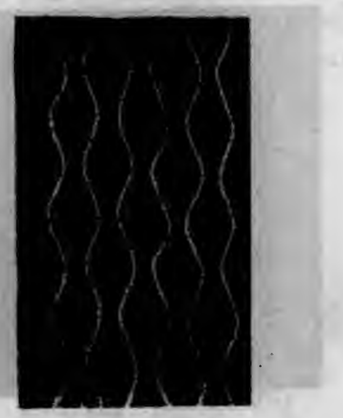
The ornamental design for a display rack, substantially as shown and described.

116,384
DESIGN FOR A HEATER OR SIMILAR ARTICLE
Eugene G. Siegler and Raymond J. Siegler, Marion County, Ill.
Application June 30, 1939, Serial No. 85,778
Term of patent 7 years



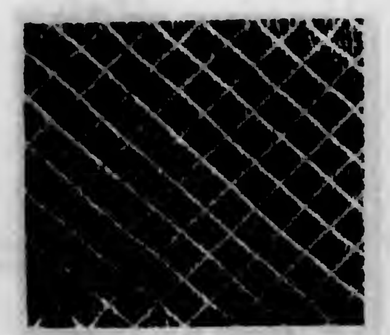
The ornamental design for a heater or similar article, as shown and described.

116,385
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Sigoda, Laurelton, Long Island, N. Y.
Application May 3, 1939, Serial No. 84,775
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, substantially as shown and described.

116,386
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Sigoda, Laurelton, Long Island, N. Y.
Application May 3, 1939, Serial No. 84,776
Term of patent 3½ years



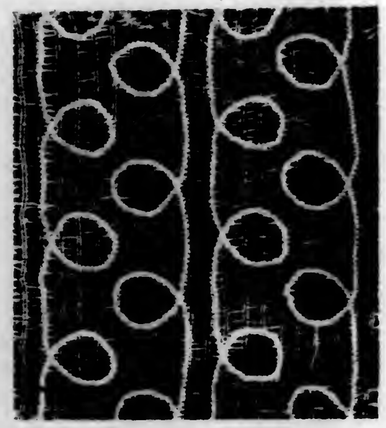
The ornamental design for a textile fabric or similar article, substantially as shown and described.

116,387
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Sigoda, Laurelton, Long Island, N. Y.
Application May 3, 1939, Serial No. 84,777
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, substantially as shown and described.

116,388
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Sigoda, Laurelton, Long Island, N. Y.
Application May 3, 1939, Serial No. 84,778
Term of patent 3½ years



The ornamental design for a textile fabric or similar article, substantially as shown and described.

116,389
DESIGN FOR A COOKING RANGE
John A. Underwood, Evanston, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application December 7, 1937, Serial No. 73,415
Term of patent 7 years



The ornamental design for a cooking range, as shown and described.

116,390
DESIGN FOR A COOKING RANGE
John A. Underwood, Evanston, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application December 7, 1937, Serial No. 73,416
Term of patent 7 years



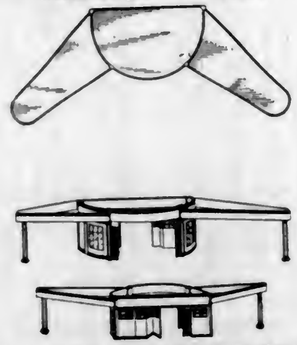
The ornamental design for a cooking range, as shown and described.

116,391
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Arnold Zavell, New York, N. Y.
Application June 17, 1939, Serial No. 85,544
Term of patent 3½ years



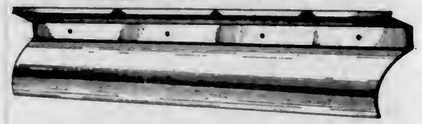
The ornamental design for a textile fabric or similar article, as shown and described.

116,392
DESIGN FOR A SERVICE STATION
Ralph N. Aldrich and Alfred H. Jaehne, San Francisco, Calif., assignors to Standard Oil Company of California, San Francisco, Calif., a corporation of Delaware
Application January 20, 1939, Serial No. 82,452
Term of patent 7 years



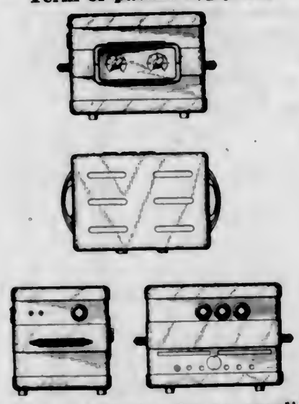
The ornamental design for a service station, as shown.

116,393
DESIGN FOR A SHOE RACK
Samuel George Arch, Outremont, Quebec, Canada
Application April 7, 1938, Serial No. 76,347
Term of patent 7 years



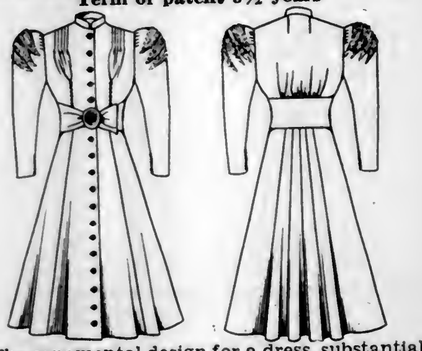
The ornamental design for a shoe rack, as shown.

116,394
DESIGN FOR AN AMPLIFIER OR THE LIKE
Peter J. Faber, Chicago, Ill., assignor to Montgomery Ward & Co., Incorporated, Chicago, Ill., a corporation of Illinois
Application July 3, 1939, Serial No. 85,827
Term of patent 3½ years



The ornamental design for an amplifier or the like, substantially as shown.

116,395
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,331
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,396
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,332
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,397
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,333
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,398
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,335
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,399
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,336
Term of patent 3½ years

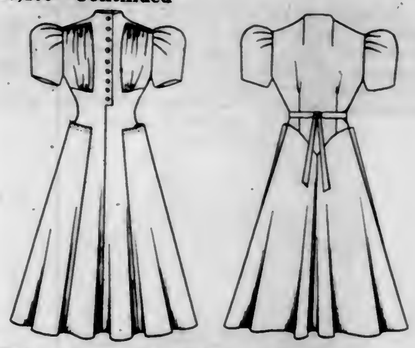


The ornamental design for a dress, substantially as shown.

116,400
DESIGN FOR A DRESS ENSEMBLE
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,347
Term of patent 3½ years



116,400—Continued



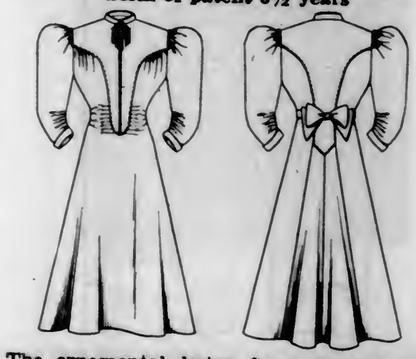
The ornamental design for a dress ensemble, substantially as shown.

116,401
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,350
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,402
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,353
Term of patent 3½ years



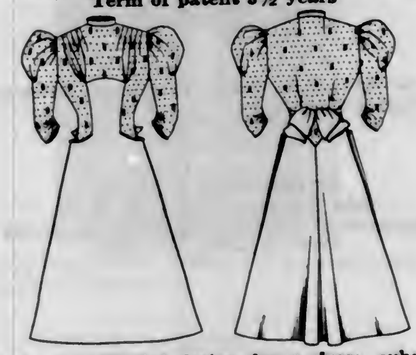
The ornamental design for a dress, substantially as shown.

116,403
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,355
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,404
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,356
Term of patent 3½ years

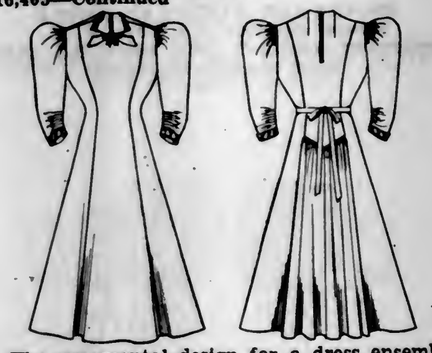


The ornamental design for a dress, substantially as shown.

116,405
DESIGN FOR A DRESS ENSEMBLE
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,361
Term of patent 3½ years



116,405—Continued



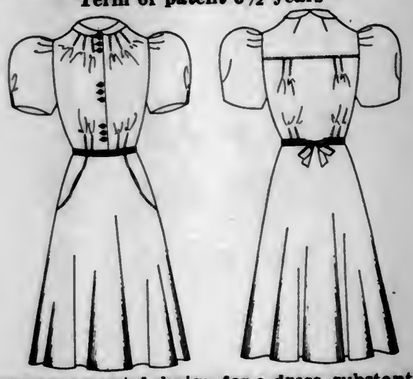
The ornamental design for a dress ensemble, substantially as shown.

116,406
DESIGN FOR A DRESS
Pauline Fracchia, New York, N. Y.
Application July 31, 1939, Serial No. 86,364
Term of patent 3½ years



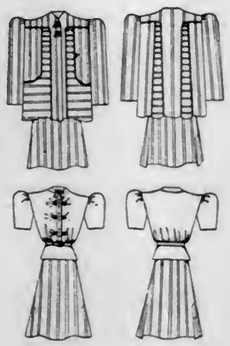
The ornamental design for a dress, substantially as shown.

116,407
DESIGN FOR A DRESS
Marion Haon, New York, N. Y.
Application July 29, 1939, Serial No. 86,320
Term of patent 3½ years



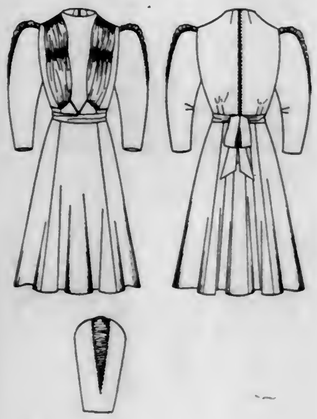
The ornamental design for a dress, substantially as shown and described.

116,408
DESIGN FOR A DRESS ENSEMBLE
Samuel Kuznetz, New York, N. Y.
Application August 1, 1939, Serial No. 86,396
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

116,409
DESIGN FOR A DRESS
Ada Maidman, New York, N. Y.
Application July 29, 1939, Serial No. 86,317
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,410
DESIGN FOR A DRESS ENSEMBLE
Ada Maidman, New York, N. Y.
Application July 29, 1939, Serial No. 86,318
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

116,411
DESIGN FOR A DRESS
Ada Maidman, New York, N. Y.
Application July 29, 1939, Serial No. 86,319
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,412
DESIGN FOR A PENCIL TIP
Joseph S. Reckford, New York, and Edwin C. Kubler, Hollis, N. Y., assignors to American Lead Pencil Company, Hoboken, N. J., a corporation of New York
Application June 28, 1939, Serial No. 85,732
Term of patent 7 years





The ornamental design for a pencil tip, substantially as shown.

116,413
DESIGN FOR A TEXTILE FABRIC
Eugene S. Ross, New York, N. Y.
Application July 28, 1939, Serial No. 86,289
Term of patent 3½ years



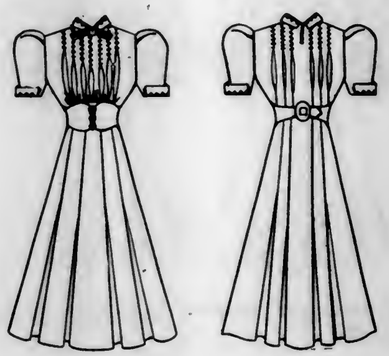
The ornamental design for a textile fabric, substantially as shown.

116,414
DESIGN FOR A DRESS
Katheryn Rost, New York, N. Y.
Application August 2, 1939, Serial No. 86,403
Term of patent 3½ years



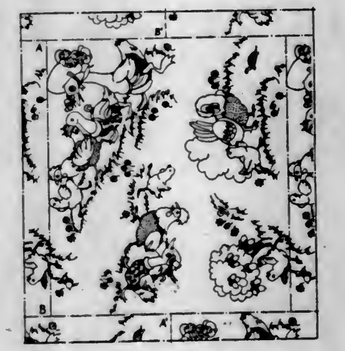
The ornamental design for a dress, substantially as shown.

116,415
DESIGN FOR A DRESS
Bernard S. Roth, St. Louis, Mo.
Application July 31, 1939, Serial No. 86,374
Term of patent 3½ years



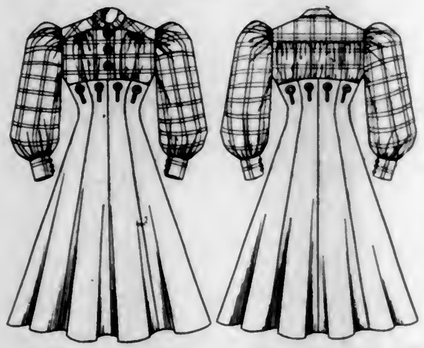
The ornamental design for a dress, substantially as shown.

116,416
DESIGN FOR A TEXTILE FABRIC
Agnes A. Selverstone, Brooklyn, N. Y., assignor to I. B. Kleinert Rubber Company, New York, N. Y.
Application June 20, 1939, Serial No. 85,585
Term of patent 7 years



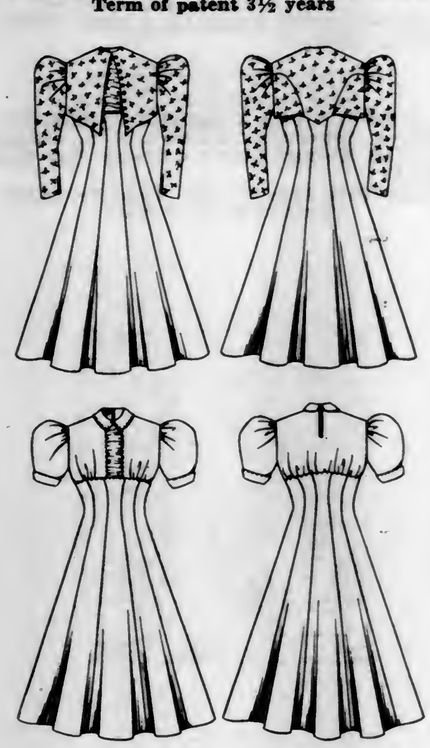
The ornamental design for a textile fabric, as shown and described.

116,417
DESIGN FOR A DRESS
Anna Louise Siverts, New York, N. Y.
Application July 31, 1939, Serial No. 86,371
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,418
DESIGN FOR A DRESS ENSEMBLE
Anna Louise Siverts, New York, N. Y.
Application July 31, 1939, Serial No. 86,372
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

116,419
DESIGN FOR A DRESS
Fannie Sussman, New York, N. Y.
Application July 31, 1939, Serial No. 86,369
Term of patent 7 years



The ornamental design for a dress, substantially as shown.

116,420
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application July 20, 1939, Serial No. 86,111
Term of patent 7 years



The ornamental design for a textile fabric or similar article, as shown.

116,421
DESIGN FOR A TEXTILE FABRIC OR SIMILAR ARTICLE
Mark Turpan, West Englewood, N. J.
Application July 28, 1939, Serial No. 86,282
Term of patent 3½ years



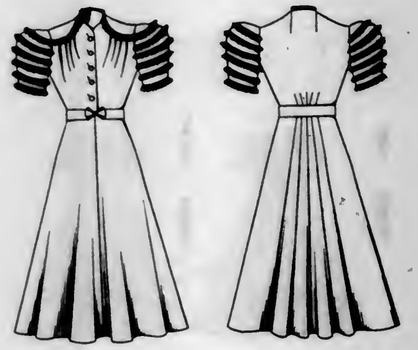
The ornamental design for a textile fabric or similar article, as shown.

116,422
DESIGN FOR A WOVEN TEXTILE FABRIC
John L. Walther, New York, N. Y.
Application June 21, 1939, Serial No. 85,593
Term of patent 3½ years



The ornamental design for a woven textile fabric, substantially as shown and described.

116,423
DESIGN FOR A DRESS
Samuel Zahn, New York, N. Y.
Application July 31, 1939, Serial No. 86,366
Term of patent 3½ years



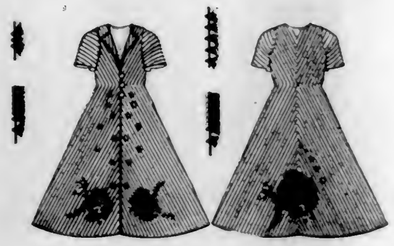
The ornamental design for a dress, substantially as shown.

116,424
DESIGN FOR A DRESS
Philip Zahn, New York, N. Y.
Application July 31, 1939, Serial No. 86,370
Term of patent 3½ years



The ornamental design for a dress, substantially as shown.

116,425
DESIGN FOR A BEACH COAT OR SIMILAR ARTICLE
Leonard C. Asch, New York, N. Y., assignor of one-half to Polly Prentiss, Inc., Sumter, S. C., a corporation of South Carolina, and one-half to Asbury-Prentiss, Inc., Sumter, S. C., a corporation of New York
Application April 27, 1939, Serial No. 84,640
Term of patent 3½ years



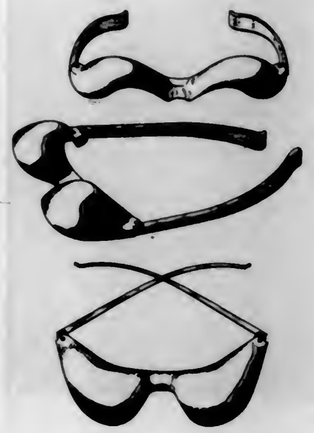
The ornamental design for a beach coat or similar article, substantially as shown and described.

116,426
DESIGN FOR A HAT
Mortimer N. Bryan, New York, N. Y.
Application June 16, 1939, Serial No. 85,533
Term of patent 3½ years



The ornamental design for a hat, as shown.

116,427
DESIGN FOR AN EYE SHADE OR SIMILAR ARTICLE
Arnold N. Gates, Cleveland Heights, Ohio
Application July 6, 1939, Serial No. 85,860
Term of patent 14 years



The ornamental design for an eyeshade or similar article, substantially as shown.

116,428
DESIGN FOR A DRESS
Harry Goldman, New York, N. Y.
Application July 21, 1939, Serial No. 86,141
Term of patent 3½ years



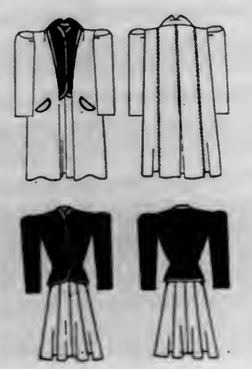
The ornamental design for a dress, substantially as shown.

116,429
DESIGN FOR A SHOE
Henry Greenblatt, University City, Mo.
Application June 17, 1939, Serial No. 85,538
Term of patent 3½ years



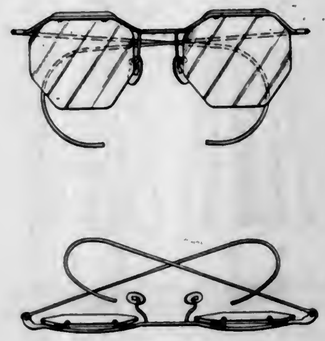
The ornamental design for a shoe, as shown.

116,430
DESIGN FOR A SUIT ENSEMBLE
Max Kolmer, New York, N. Y.
Application June 23, 1939, Serial No. 85,637
Term of patent 3½ years



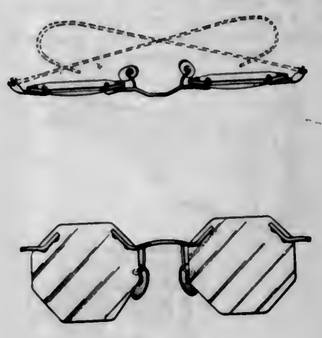
The ornamental design for a suit ensemble, substantially as shown.

116,431
DESIGN FOR A PAIR OF SPECTACLES
George P. Miller, Dover-Foxcroft, Maine
Application January 16, 1939, Serial No. 82,367
Term of patent 14 years



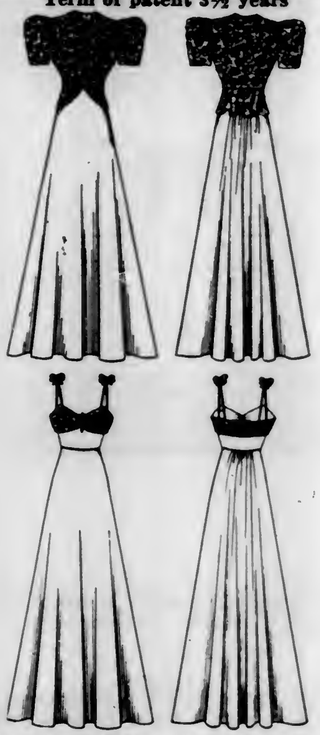
The ornamental design for a pair of spectacles, substantially as shown and described.

116,432
DESIGN FOR A PAIR OF SPECTACLES
George P. Miller, Dover-Foxcroft, Maine
Application January 16, 1939, Serial No. 82,368
Term of patent 14 years



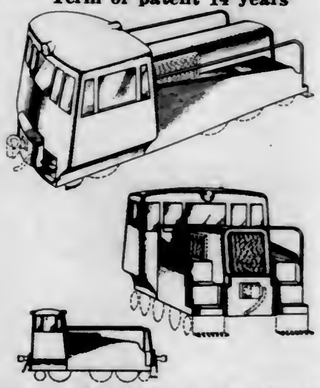
The ornamental design for a pair of spectacles, substantially as shown and described.

116,433
DESIGN FOR A DRESS ENSEMBLE
Madeline Moore, New York, N. Y.
Application July 1, 1939, Serial No. 85,792
Term of patent 3½ years



The ornamental design for a dress ensemble, substantially as shown.

116,434
DESIGN FOR A TRACTIVE VEHICLE
Rachel D. Raseman, Bloomfield Hills, Mich., assignor to Evans Products Company, Detroit, Mich., a corporation of Delaware
Application November 7, 1938, Serial No. 80,922
Term of patent 14 years



The ornamental design for a tractive vehicle, substantially as shown and described.

116,435
DESIGN FOR A DRESS
Mary Gorelick Schor, New York, N. Y.
Application June 1, 1939, Serial No. 85,277
Term of patent 3½ years



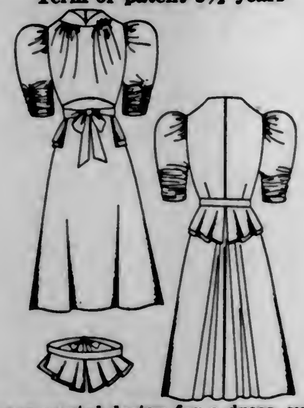
The ornamental design for a dress, substantially as shown and described.

116,436
DESIGN FOR A TEXTILE FABRIC
Michael Simeone, New York, N. Y.
Application April 26, 1939, Serial No. 84,572
Term of patent 3½ years



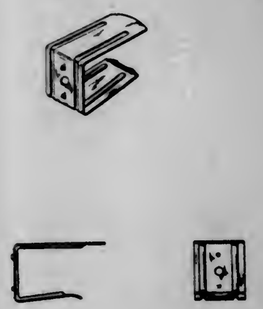
The ornamental design for a textile fabric, substantially as shown, and described.

116,437
DESIGN FOR A DRESS
Fay Toran, New York, N. Y.
Application July 26, 1939, Serial No. 86,240
Term of patent 3½ years



The ornamental design for a dress, substantially as shown and described.

116,438
DESIGN FOR A VALANCE CLIP
Richard H. Wright, Cleveland Heights, Ohio
Application December 24, 1938, Serial No. 81,974
Term of patent 7 years



The ornamental design for a valance clip, substantially as shown and described.

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